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FIGURE 129B

SNP	OLIGO	PM	DC	OLIGO_SEQUENCE	GPCO	GPCH	SHORT_GENE_NAME
4205	I		S	GGTTCTCCCGAGAGGTAAAGAACAAAGACTTCAAAGACACTTC			
4205	P	A	S	CGCGCCGAGGTCTTCACTGGTCAGCTC			
4205	P	C	S	ATGACGTGGCAGACGCTTCACTGGTCAGC			
4205	T	A	S	GGAGGAGCTGACCAGTGAAGAAAGTGTCTTTGAAGTCTTTGTTCTTTACCTCTCGGGAGAACCAA			
4205	T	C	S	GGAGGAGCTGACCAGTGAAGCAAGTGTCTTTGAAGTCTTTGTTCTTTACCTCTCGGGAGAACCAA			
4205	IS	[AC]		GCCTTTGGGGAGCTGAAGGACTACTACCTCTTCTACCTGAAGAGCAAGTCCCCCAAGGAGGAGCTGCTGAAGATGTGGGGGGAGGAGCTGACCAGTGAAG[AC]A AGTCTCTTTGAAGTCTTTGTTCTTTACCTCTCGGGAGAACCAAACCGGAATGGTCACAAAGTGAGTGATGCTGGAAGTGGGGACCCTGGTTCATCCCCT	ctg13980	1	
4206	I		A	CCACGCCGGCCCAGGCTGAAGA			
4206	P	C	A	ATGACGTGGCAGACCTGACTCTGCCCGC			
4206	P	T	A	CGCGCCGAGGTTGACTCTGCCCGC			
4206	T	C	A	GCCTGCGGGCAGAGTCAGCTTCAGCCTGGGCCGGCGTGGGA			
4206	T	T	A	GCCTGCGGGCAGAGTCAACTTCAGCCTGGGCCGGCGTGGGA			
4206	IS	[CT]		TAGTTTATGAAGGGTCGAGAAGGCGGGCGGCCAGCCTCGAGGTAGGGGGTTATTATCTTCCGCTGCCCGCCGCCCCCTCCCACGCCGGCCCAGGCTGAAG[CT] TGACTCTGCCCGCAGGCCTCCAAAGACTTCATATGCTCCAGATCTCCTACTTCCGCGACCCCTATCACGTGTGGTACCAGGGCAACGCGTCGCTGGGGGG	ctg16586	20	
4208	I		A	GCACCCTCTCTGCACAGTCCCCTGAA			
4208	P	C	A	ATGACGTGGCAGACCCCTGACTGTCTATCCA			
4208	P	T	A	CGCGCCGAGGTCCTGACTGTCTATCCAC			
4208	T	C	A	AACTGTGGATAGACAGTCAGGGTCAGGGGACTGTGCAGAGAGGGTGCCA			
4208	T	T	A	AACTGTGGATAGACAGTCAGGATCAGGGGACTGTGCAGAGAGGGTGCCA			
4208	IS	[CT]		ACTCCCCTCTCCTCACAGCACTGACTCTTGCCTTCTCATGTTCTTTTCCCCTTGGTGGGCCTCGCCCCACACCTGGCACCCTCTCTGCACAGTCCCCTGA[CT]CCT GACTGTCTATCCACAGTTCCTCTGACCATCCGCTGCTTCCTGGGCTGTGAGCTGCCTCCCGAGGGCTCTAGAGCCCATGTCTTCTTCGAAGTGGCTG	ctg16586	20	
4209	I		S	AAGATGCCTACAGCCACACCAGCAATGATGAAACA			
4209	P	A	S	CGCGCCGAGGTGCCCACCAGGACY			
4209	P	G	S	ATGACGTGGCAGACCGCCCACCAGGACY			
4209	T	A	S	GGGCGTCCTGGTGGGCAGTTTCATCATTGCTGGTGTGGCTGTAGGCATCTTCC			
4209	T	G	S	GGGCGTCCTGGTGGGCGGTTTCATCATTGCTGGTGTGGCTGTAGGCATCTTCC			
4209	IS	[AG]		CTCCTTGGGGGCCTATTCTTCGGGCTAACTCTTTGCATGTTCTGCAGGGAGCCAAACAAGCCGCTCCTACACTTCGCTGGTCCTGGGCGTCCTGGTGGGC[AG]G TTTCATCATTGCTGGTGTGGCTGTAGGCATCTTCCTGTGCACAGGTGGACGGCGATGTTAATTACTCTCCAGCCCCGTCAGAAGGGGCTGGATTGATGG	ctg16586	20	
4210	I		A	GGACGGCGATGTTAATTACTCTCCAGCCCCT			
4210	P	C	A	CGCGCCGAGGCTCAGAAGGGGCTGG			
4210	P	G	A	ATGACGTGGCAGACGTCAGAAGGGGCTGG			
4210	T	C	A	CAATCCAGCCCCTTCTGAGGGGGCTGGAGAGTAATTAACATCGCCGTCCAC			
4210	T	G	A	CAATCCAGCCCCTTCTGACGGGGCTGGAGAGTAATTAACATCGCCGTCCAC			
4210	IS	[CG]		GGTCCTGGGCGTCCTGGTGGGCAGTTTCATCATTGCTGGTGTGGCTGTAGGCATCTTCCTGTGCACAGGTGGACGGCGATGTTAATTACTCTCCAGCCCC[CG]T CAGAAGGGGCTGGATTGATGGAGGCTGGCAAGGGAAAGTTTCAGCTCACTGTGAAGCCAGACTCCCCAACTGAAACACCAGAAGGTTTGGAGTGACAGC	ctg16586	20	PROCR
4211	I		S	CTTGGCATCCAAAGACAAGCACTTCTCTTGGCTT			
4211	P	G	S	CGCGCCGAGGCTTTTCCCAGTTAAATGAGC			
4211	P	C	S	ATGACGTGGCAGACGTTTTCCCAGTTAAATGAGC			
4211	T	G	S	TCGGGCTCATTTAACTGGGAAAAGAGCCAAGAGAAGTGCTTGTCTTTGGATGCCAAGTT			
4211	T	C	S	TCGGGCTCATTTAACTGGGAAAACAGCCAAGAGAAGTGCTTGTCTTTGGATGCCAAGTT			
4211	IS	[GC]		GATGAGATATACTATCCTTCCCAGCTCCTTGTCCGCAAGACTGGATCTGGCATGGAGAAAACTGTTACCTATTTTCCTCGGGCTCATTTAACTGGGAAAA[GC]AGC CAAGAGAAGTGCTTGTCTTTGGATGCCAAGTTGCTGAAAATTAATAGCACAGCTGATCTGGTGAGTGTTCATGGATATTTGTTGGGGTGGAGTATTG	ctg14210	12	
4213	I		A	CAAGGGGATGTCAAAGATACCTTTTGGTTCTTTAGTTTTGTGGATCA			
4213	P	C	A	ATGACGTGGCAGACCAACACTAACTGACTTTCAGA			
4213	P	T	A	CGCGCCGAGGTAACACTAACTGACTTTCAGATT			
4213	T	C	A	TTAGAATCTGAAAGTCAGTTAGTGTTGGATCCACAAAACTAAAGAACCAAAAGGTATCTTTGACATCCCCTTGAC			
4213	T	T	A	TTAGAATCTGAAAGTCAGTTAGTGTTAGATCCACAAAACTAAAGAACCAAAAGGTATCTTTGACATCCCCTTGAC			
4213	IS	[CT]		ACGGACAGGCTCTGTAGTATCTCTAGCCTTCAGTAAGTGTTTCCGTAAAACAGTCAAGGGGATGTCAAAGATACCTTTTGGTTCTTTAGTTTTGTGGATC[CT]AACA CTAACTGACTTTCAGATTCTAAAACCCACCATGTGGATTCCACAAACTCAGAAACATTACTCCCCACAGGACTTCATCCAGCAAGCAATTTCCTAT	ctg14210	12	
4216	I		S	GTGGGAAGGAAAACTCAAGAAAATGTCTGAATGGTTAATT			
4216	P	C	S	ATGACGTGGCAGACGAGTAAATCTTTTTGTGAAAGAGG			
4216	P	T	S	CGCGCCGAGGAAGTAAATCTTTTTGTGAAAGAGG			
4216	T	C	S	CTTACCTCTTTCACAAAAAGATTTACTCATTAACCATTCAGACATTTTCTTGAGTTTTCCTTCCCACAT			
4216	T	T	S	CTTACCTCTTTCACAAAAAGATTTACTTATTAACCATTCAGACATTTTCTTGAGTTTTCCTTCCCACAT			
4216	IS	[CT]		TCACTGCCTGCATCCCACCAATGTCCTCTTCTTGCCAGAGAGAAGCTTGGGGGAATTTCTCAAAGTCTCCTTCCTTACCTCTTTCACAAAAAGATTTACT[CT]ATTAA CCATTCAGACATTTTCTTGAGTTTTCCTTCCCACATTTATTACTGATTGGAGGCTTTAAGACAAAAAGTTTCAAAAGCTAAGTTTCTGAAACAAG	ctg14210	12	
4217	I		A	CCCACATTTATTACTGATTGGAGGCTTTAAGACAAAAAGTTTCAAAAGCTT			
4217	P	A	A	CGCGCCGAGGAAGTTTCTGAAACAAGGTGG			
4217	P	G	A	ATGACGTGGCAGACGAGTTTCTGAAACAAGGTGG			
4217	T	A	A	ACTGCCACCTTGTTTCAGAAACTTAGCTTTTGAAACTTTTTGTCTTAAAGCCTCCAATCAGTAATAAATGTGGGAA			
4217	T	G	A	ACTGCCACCTTGTTTCAGAAACTCAGCTTTTGAAACTTTTTGTCTTAAAGCCTCCAATCAGTAATAAATGTGGGAA			
4217	IS	[AG]		ACAAAAAGATTTACTCATTAACCATTCAGACATTTTCTTGAGTTTTCCTTCCCACATTTATTACTGATTGGAGGCTTTAAGACAAAAAGTTTCAAAAGCT[AG]AGTTTC TGAAACAAGGTGGCAGTAAACCTAAGTTTTTTTTGTTGGTTTGTTTTGTTTTTCCTACCTGCAGATTTAGAGTCCGAGGCGCTGTCTCCCAGAC			
4220	I		S	CTTCTGTTAGATTGTTGGAAGCTTCACTCAAGATGCCCAA			
4220	P	G	S	ATGACGTGGCAGACCGCAAACACACACACA			
4220	P	A	S	CGCGCCGAGGTGCAAACACACACACA			
4220	T	G	S	TGTGTGTGTGTGTGTTTGCGTGGGCATCTTGAGTGAAGCTTCCAACAATCTAACAGAAGAA			
4220	T	A	S	TGTGTGTGTGTGTGTTTGCATGGGCATCTTGAGTGAAGCTTCCAACAATCTAACAGAAGAA			
4220	IS	[GA]		TGTGTGTACGTGTATATATGTATGTATCTGTGTGTGTCTGTGTGTTGTGCGTGTGTGTGCCTGCGTGTGTCCGTGTGCTTGTGTGTGTGTGTGTTTGC[GA]TG GGCATCTTGAGTGAAGCTTCCAACAATCTAACAGAAGAAAAGGAGCCACACTTGTCTGTTCTGCTCTCTTGGGTACTTCCCAGACCAGTGAAATGAAA			
4221	I		A	GGGAGCTTAGTAGGAGTCAAATCCTAGGCCCCA			
4221	P	C	A	ATGACGTGGCAGACCGTCTCAGCTGCTCT			
4221	P	T	A	CGCGCCGAGGTGTCTCAGCTGCTCTG			
4221	T	C	A	ACAGCAGAGCAGCTGAGACGGGGGCCTAGGATTTGACTCCTACTAAGCTCCCCG			
4221	T	T	A	ACAGCAGAGCAGCTGAGACAGGGGCCTAGGATTTGACTCCTACTAAGCTCCCCG			
4221	IS	[CT]		TGTGTACATGTGTTCATGTCCAGGGGATGACACTGTGGCATCCAACAGCCGTGGACCAGCAGCCCACGGGGAGCTTAGTAGGAGTCAAATCCTAGGCCCC[CT]G TCTCAGCTGCTCTCGCTGTCTAGCGCATTGTGCAGTGGTAGGTGTCAGTGATCCAAGTGGGGACCCAGTCCCTCAGGCCACACAGCGCATGTCCATTGCC	ctg22fin4	22	
4222	I		A	CCATTGCCTTCATGCCGCAGGAGACTGAGT			
4222	P	G	A	ATGACGTGGCAGACGGGTCATGCATGAGGY			
4222	P	A	A	CGCGCCGAGGAGGTCATGCATGAGGGY			
4222	T	G	A	GTGGCCCTCATGCATGACCCCTCAGTCTCCTGCGGCATGAAGGCAATGGAC			
4222	T	A	A	GTGGCCCTCATGCATGACCTCTCAGTCTCCTGCGGCATGAAGGCAATGGAC			
4222	IS	[GA]		AGCGCATTGTGCAGTGGTAGGTGTCAGTGATCCAAGTGGGGACCCAGTCCCTCAGGCCACACAGCGCATGTCCATTGCCTTCATGCCGCAGGAGACTGAG[GA]G GTCATGCATGAGGGCCACTTCTCTGGGTTGTCCCCACAACACGGGCGGTGTCCCTGGGACACGTGGAAGGGGAGGGGCAGCTCACTGCTGACATCTCCT	ctg22fin4	22	
4226	I		S	GGAGGCTGCCGAGCCCCTCCA			
4226	P	G	S	ATGACGTGGCAGACCTCAGCACTGGGGAGY			

FIGURE 129B

```
4226  P  A  S  CGCGCCGAGGTTCAGCACTGGGGAGY
4226  T  G  S  AGTGCTCCCCAGTGCTGAGGGAGGGGCTCGGCAGCCTCCAC
4226  T  A  S  AGTGCTCCCCAGTGCTGAAGGAGGGGCTCGGCAGCCTCCAC

                ACAGCCCACCCTAAGCTCTCCTCCCTCCCGTGTGCCCTCCCTCTCCCTGCCCTCAGCTCTGCTGTGCTCCTCAGGGAGGAAGAGTGCTCCCCAGTGCTGA[GA]G
4226  IS [GA]   GAGGGGCTCGGCAGCCTCCACACCAGGCACCACTGCCAGATTCCCGTGCCCGACCCCGCGACCCACGGCCAATACATCGTCTCTGTTCAGCCAAGGAGG  ctg22fin4  22
4227  I     A  TGGACTATGTAATTGAATTTAAACTATAATTTTCTTTGGATTTCAAAAAAACTAGCTCAAT
4227  P  A  A  CGCGCCGAGGACCTGTTAAGTGGTATCTAGA
4227  P  G  A  ATGACGTGGCAGACGCCTGTTAAGTGGTATCTAG
4227  T  A  A  ATTTTCTAGATACCACTTAACAGGTTTGAGCTAGTTTTTTTGAAATCCAAAGAAAATTATAGTTTAAATTCAATTACATAGTCCAGT
4227  T  G  A  ATTTTCTAGATACCACTTAACAGGCTTGAGCTAGTTTTTTTGAAATCCAAAGAAAATTATAGTTTAAATTCAATTACATAGTCCAGT

                AAACCTGCATTGATTTTGATTATAATTATAGTTGGACCACTGGACTATGTAATTGAATTTAAACTATAATTTTCTTTGGATTTCAAAAAAACTAGCTCAA[AG]CCTGTT
4227  IS [AG]   AAGTGGTATCTAGAAAATGCTTTTTTTTTTTTTTTTTTTTATCACCAGCTCTGTCCTCATCTGTCTGTTCTGTTAAAAGTGGTGCATTATTTTGGC
4147  I     S  TCCACTAGCATAGCCATCCCTTTGTTCCCCTTTA
4147  P  A  S  CGCGCCGAGGTCATCCACCAGCCAGY
4147  P  G  S  ATGACGTGGCAGACCCATCCACCAGCCAY
4147  T  A  S  AGTTCTGGCTGGTGGATGAAAAGGGGAACAAAGGGATGGCTATGCTAGTGGATC
4147  T  G  S  AGTTCTGGCTGGTGGATGGAAAGGGGAACAAAGGGATGGCTATGCTAGTGGATC

                TCCCTCCCATGGCCCCCGTCTCACCCGGGAGAACTGGTGGGCAGAGGGTGGGCTGGGGACAGGAGTGTTCGGGGATAAGAGAAGTTCTGGCTGGTGGATG[AG]
4147  IS [AG]   AAAGGGGAACAAAGGGATGGCTATGCTAGTGGATCCCTAAAATCTGGGCAGGACGTCAGGGAAGGAGGAGGGACAGGCCCTGCTTGGGGGTCTATTTCTG  ctg17326  12
4150  I     S  CGTGTGATCGCTTTGCGAACATTCACAGAGGTAAACT
4150  P  C  S  ATGACGTGGCAGACGATGAGGATCTATGCACATCY
4150  P  T  S  CGCGCCGAGGAATGAGGATCTATGCACATCY
4150  T  C  S  CTGGGATGTGCATAGATCCTCATCGTTTACCTCTGTGAATGTTCGCAAAGCGATCACACGGT
4150  T  T  S  CTGGGATGTGCATAGATCCTCATTGTTTACCTCTGTGAATGTTCGCAAAGCGATCACACGGT

                GTGGTGCTCACGGGAACATCACTCGCCCCCACCGCCAGCTGACTTTTTCAGAAAGCTTTTCATGGTGTAACATATTCCTGGGATGTGCATAGATCCTCAT[CT]GTT
4150  IS [CT]   TACCTCTGTGAATGTTCGCAAAGCGATCACACGGTGAACCCAGCACCCAGATGGAGAAACACCGCCCCAATCTTTAGGGCTGCTTGTTGGAAGAAGG  ctg17326  12
4158  I     A  GCCACAATAGAGATTCTGCCTTCAAAGGTTGGCTC
4158  P  T  A  CGCGCCGAGGTGCCACCTGAAGCAY
4158  P  G  A  ATGACGTGGCAGACGGCCACCTGAAGCAY
4158  T  T  A  TGGCTGCTTCAGGTGGCAAGCCAACCTTTGAAGGCAGAATCTCTATTGTGGCTG
4158  T  G  A  TGGCTGCTTCAGGTGGCCAGCCAACCTTTGAAGGCAGAATCTCTATTGTGGCTG

                ACTCTCCCCAGCACACGGAAGGGGAAGGGGGTGGAGGTTGCTGCTATGAGAGAGAAAAAAAAAACAGCCACAATAGAGATTCTGCCTTCAAAGGTTGGCT[TG]GC
4158  IS [TG]   CACCTGAAGCAGCCACTGCCCAGGGGGTGCAAAGAAGAGACAGCAGCGCCCAGCTTGGAGGTGCTAACTCCAGAGGCCAGCATCAGCAACTGGGCACA  ctg17326  12
4160  I     A  GGGAACACCAGTGAGAAAAGGCCTGCATGGA
4160  P  C  A  ATGACGTGGCAGACCGGCCCTGCAGCY
4160  P  T  A  CGCGCCGAGGTGGCCCTGCAGCY
4160  T  C  A  TGGGGCTGCAGGGCCGCCATGCAGGCCTTTTCTCACTGGTGTTCCCCG
4160  T  T  A  TGGGGCTGCAGGGCCACCATGCAGGCCTTTTCTCACTGGTGTTCCCCG

                GGGGCCCTTTGATGGGGCGTGTCATCACCAGGGTGGCACTGATGGGGCCCGTTTGCTATGGACAGAACCGGGGAACACCAGTGAGAAAAGGCCTGCATGG[CT]
4160  IS [CT]   GGCCCTGCAGCCCCACCTGGGCGCTCCCTTGCCTCCGTCAGTCAAACTGGCACCCCCTCGGTGCCTCAACTGTGCCATGCTCTTTCCCTGGCTTTGCCCA  ctg13206  14
4161  I     S  CGCATGCGACCCACACTCCCCTAGAT
4161  P  C  S  ATGACGTGGCAGACGCTGAATCTGTCTTGGGY
4161  P  G  S  CGCGCCGAGGCCTGAATCTGTCTTGGGY
4161  T  C  S  AATGCCCAAGACAGATTCAGCTCTAGGGGAGTGTGGGTCGCATGCGGC
4161  T  G  S  AATGCCCAAGACAGATTCAGGTCTAGGGGAGTGTGGGTCGCATGCGGC

                CTGTGCATTCCCAGGGCTTGGAAGACAGAGAGCCAGAATGGTAACAGTGAGTATCCTGTGGAGGTGAAAAGTCAAATATAAATGCCCAAGACAGATTCAG[CG]TC
4161  IS [CG]   TAGGGGAGTGTGGGTCGCATGCGGCCCGTGACGTGTAACGGTGATATCACCTTGGGCTTGTATGGGGTGGGGTGTGCTCCAGGGAGGTCATGGTGGTT  ctg13206  14
4166  I     A  CATGCACACACACACACACACACATACACACACAT
4166  P  C  A  CGCGCCGAGGCAGTCGGGGAACCGY
4166  P  G  A  ATGACGTGGCAGACGAGTCGGGGAACCGY
4166  T  C  A  ATGACGGTTCCCCGACTGTGTGTGTGTATGTGTGTGTGTGTGTGTGTGCATGCG
4166  T  G  A  ATGACGGTTCCCCGACTCTGTGTGTGTATGTGTGTGTGTGTGTGTGCATGCG

                CTTGAACAGGAAGGCGTTTTGTGGCAGAGTCTAAACGAAACAGAAGTTGCTTTGTGTGTGCGCACGCATGCACACACACACACACACACATACACACAC[CG]AGT
4166  IS [CG]   CGGGGAACCGTCATTTTCCTACGCGCCCTCTGACATCAGCCACCTTCTCTGTAGCTAGTTTCTCTGCACACAACTTAATCCCTGGCAATGAAAAATG
4171  I     A  CCAGGAACAGCAGTCTCTGCCCACCTGT
4171  P  G  A  ATGACGTGGCAGACGCCCCGCCCACY
4171  P  A  A  CGCGCCGAGGACCCCGCCCACY
4171  T  G  A  TCTGGTGGGCGGGGCCAGGTGGGCAGAGACTGCTGTTCCTGGGG
4171  T  A  A  TCTGGTGGGCGGGGTCAGGTGGGCAGAGACTGCTGTTCCTGGGG

                GTGCTGGACAGAGGCCAGTTCCTGGAAAAGCCTTTCCCACGCCATCCCACTGCAGACATCCCTCCTTACCTCCCCAGGAACAGCAGTCTCTGCCCACCTG[GA]CC
4171  IS [GA]   CCGCCCACCAGACTGAGGCTCACTTCACCTCTGACCTGAGCGGCCCCCAGCTCACCAGGCCACAGGCCCAAGCAGTGCTCCCTGATGCGGCGTTTATA  ctg12325  11
4175  I     A  CCACTGTTAGTCTCACCTTTTTTAACCTCTTATCTCTCCCCAT
4175  P  A  A  CGCGCCGAGGAGATCCCTGAAGCCAGY
4175  P  G  A  ATGACGTGGCAGACGGATCCCTGAAGCCAY
4175  T  A  A  GTACCTGGCTTCAGGGATCTTGGGGAGAGATAAGAGGTTAAAAAAGGTGAGACTAACAGTGGGA
4175  T  G  A  GTACCTGGCTTCAGGGATCCTGGGGAGAGATAAGAGGTTAAAAAAGGTGAGACTAACAGTGGGA

                AGGTCTTCCCTACCAGGTGCCCTTGCAGGGGAGTGCCACAGCAGTCAGTCCAGGGATCCCACTGTTAGTCTCACCTTTTTTAACCTCTTATCTCTCCCCA[AG]GAT
4175  IS [AG]   CCCTGAAGCCAGGTACGAGCAAGATGAGAGTGGGTTATCTCTGGAGTGACAGAGGCTGGTCTGTTTTCCAGGCTGGTAGGGACTGTTCCTAAAGGGA  ctg12325  11
4179  I     A  CCTGCTCCCTTTCCTCTGCTTCCAGACTCAA
4179  P  C  A  ATGACGTGGCAGACCGGGATCCTCTGCTCY
4179  P  T  A  CGCGCCGAGGTGGGATCCTCTGCTCY
4179  T  C  A  TGATGAGCAGAGGATCCCGTGAGTCTGGAAGCAGAGGAAAGGGAGCAGGCA
4179  T  T  A  TGATGAGCAGAGGATCCCATGAGTCTGGAAGCAGAGGAAAGGGAGCAGGCA

                ACAGCCCTAGATAGGGGGGTTAGGGATGTGAGATGGTCCCAGGGGCCTGCTCCTGAGCCACGCCAAGCTGCCTGCTCCCTTTCCTCTGCTTCCAGACTCA[CT]G
4179  IS [CT]   GGATCCTCTGCTCATCAGAACAGGAGTGTGGGAGACCCTGAGACACTGCCCCAGGATCTGAACAGGTGGCAAAGGCTTAACAGGCTAGCGTGCACTGTA  ctg15064  7
4182  I     A  CCCAGACAGCCTTGACTCTGGTAAGGGTCACC
4182  P  A  A  CGCGCCGAGGACCAAAGTTAGGGACTTTG
4182  P  T  A  ATGACGTGGCAGACTCCAAAGTTAGGGACTTTG
4182  T  A  A  AGTGCAAAGTCCCTAACTTTGGTGTGACCCTTACCAGAGTCAAGGCTGTCTGGGCC
4182  T  T  A  AGTGCAAAGTCCCTAACTTTGGAGTGACCCTTACCAGAGTCAAGGCTGTCTGGGCC

                CTCTGCCTCCCAAAGCATCTACCTCTTAGCCCCTCGGAGAGATGGCGATGGATGTCACAAGGAGCCAGGCCCAGACAGCCTTGACTCTGGTAAGGGTCAC[AT]CC
4182  IS [AT]   AAAGTTAGGGACTTTGCACTGGGAGAGCAGCACCCAGGGCAGGGCCTTGGTTTTGCAGATTACCAAAACTAAGGCTGGGGGCAGGGAAGGCGAGCAGG  ctg15064  7
4183  I     S  CACCAGGCTGCCTTGGCCACAGAAA
4183  P  G  S  ATGACGTGGCAGACCACTTACTGAAATGCCCTT
4183  P  A  S  CGCGCCGAGGTACTTACTGAAATGCCCTTG
4183  T  G  S  TGTCCAAGGGCATTTCAGTAAGTGTTCTGTGGCCAAGGCAGCCTGGTGAC
4183  T  A  S  TGTCCAAGGGCATTTCAGTAAGTATTCTGTGGCCAAGGCAGCCTGGTGAC
```

FIGURE 129B

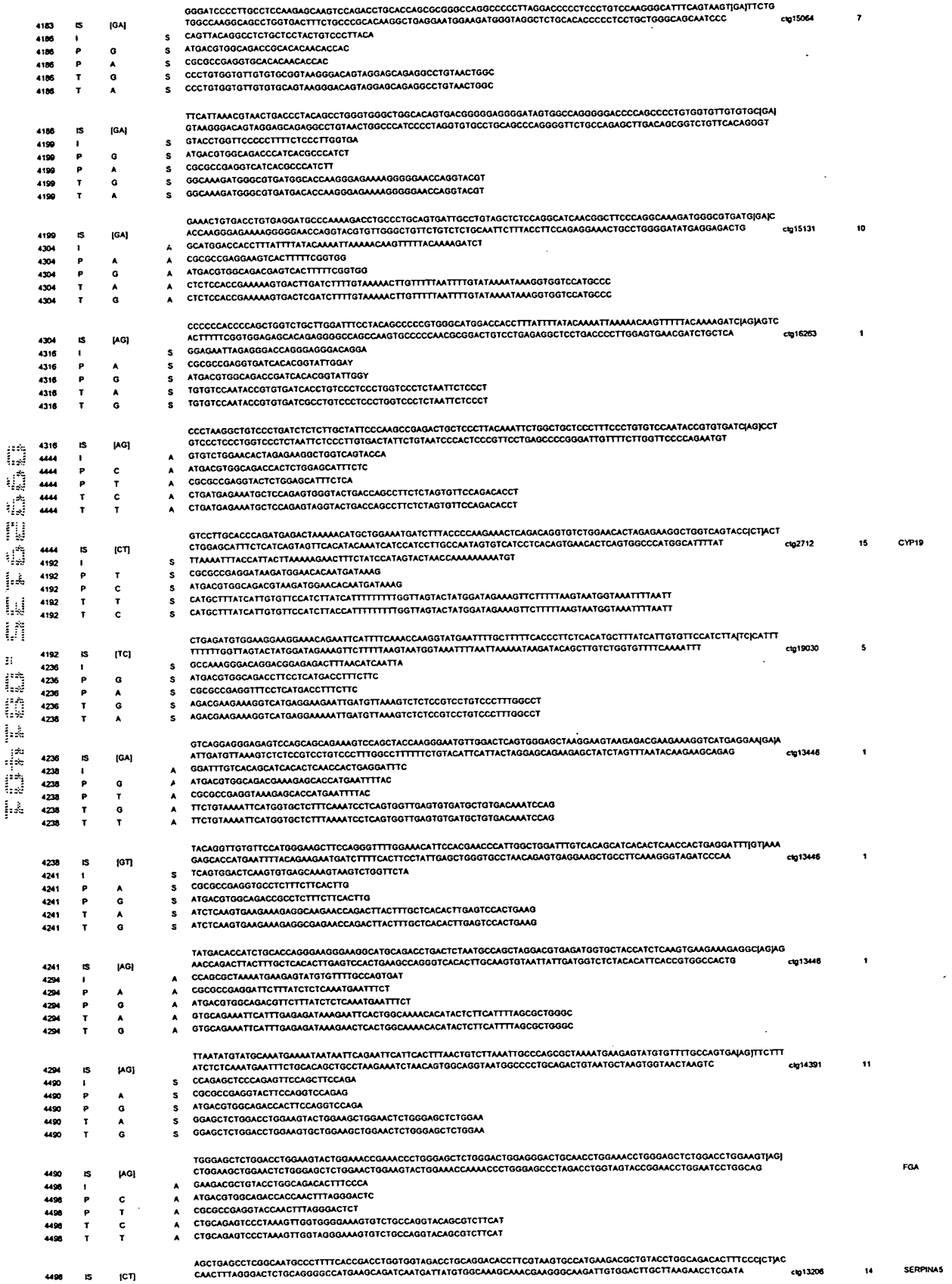

GGGATCCCCTTGCCTCCAAGAGCAAGTCCAGACCTGCACCAGCGCGGGCCAGGCCCCCTTAGGACCCCCTCCCTGTCCAAGGGCATTTCAGTAAGT[GA]TTCTG
TGGCCAAGGCAGCCTGGTGACTTTCTGCCCGCACAAGGCTGAGGAATGGAAGATGGGTAGGCTCTGCACACCCCCTCCTGCTGGGCAGCAATCCC
ctg15064
7
4183 IS [GA]
4186 I S CAGTTACAGGCCTCTGCTCCTACTGTCCCTTACA
4186 P G S ATGACGTGGCAGACCGCACACAACACCAC
4186 P A S CGCGCCGAGGTGCACACAACACCAC
4186 T G S CCCTGTGGTGTTGTGTGCGGTAAGGGACAGTAGGAGCAGAGGCCTGTAACTGGC
4186 T A S CCCTGTGGTGTTGTGTGCAGTAAGGGACAGTAGGAGCAGAGGCCTGTAACTGGC
TTCATTAAACGTAACTGACCCTACAGCCTGGGTGGGCTGGCACAGTGACGGGGGAGGGGATAGTGGCCAGGGGGACCCCAGCCCCTGTGGTGTTGTGTGC[GA]
GTAAGGGACAGTAGGAGCAGAGGCCTGTAACTGGCCCATCCCCTAGGTGTGCCTGCAGCCCAGGGGTTCTGCCAGAGCTTGACAGCGGTCTGTTCACAGGGT
4186 IS [GA]
4199 I S GTACCTGGTTCCCCCTTTTCTCCCTTGGTGA
4199 P G S ATGACGTGGCAGACCCATCACGCCCATCT
4199 P A S CGCGCCGAGGTCATCACGCCCATCTT
4199 T G S GGCAAAGATGGGCGTGATGGCACCAAGGGAGAAAAGGGGGAACCAGGTACGT
4199 T A S GGCAAAGATGGGCGTGATGACACCAAGGGAGAAAAGGGGGAACCAGGTACGT
GAAACTGTGACCTGTGAGGATGCCCAAAAGACCTGCCCTGCAGTGATTGCCTGTAGCTCTCCAGGCATCAACGGCTTCCCAGGCAAAGATGGGCGTGATG[GA]C
ACCAAGGGAGAAAAGGGGGAACCAGGTACGTGTTGGGCTGTTCTGTCTCTGCAATTCTTTACCTTCCAGAGGAAACTGCCTGGGGATATGAGGAGACTG
ctg15131
10
4199 IS [GA]
4304 I A GCATGGACCACCTTTATTTTATACAAAATTAAAAACAAGTTTTTACAAAAGATCT
4304 P A A CGCGCCGAGGAAGTCACTTTTTCGGTGG
4304 P G A ATGACGTGGCAGACGAGTCACTTTTTCGGTGG
4304 T A A CTCTCCACCGAAAAAGTGACTTGATCTTTTGTAAAAACTTGTTTTTAATTTTGTATAAAATAAAGGTGGTCCATGCCC
4304 T G A CTCTCCACCGAAAAAGTGACTCGATCTTTTGTAAAAACTTGTTTTTAATTTTGTATAAAATAAAGGTGGTCCATGCCC
CCCCCCACCCCAGCTGGTCTGCTTGGATTTCCTACAGCCCCCGTGGGCATGGACCACCTTTATTTTATACAAAATTAAAAACAAGTTTTTACAAAAGATC[AG]AGTC
ACTTTTTCGGTGGAGAGCACAGAGGGGCCAGCCAAGTGCCCCCAACGCGGACTGTCCTGAGAGGCTCCTGACCCCTTGGAGTGAACGATCTGCTCA
ctg16263
1
4304 IS [AG]
4316 I S GGAGAATTAGAGGGACCAGGGAGGGACAGGA
4316 P A S CGCGCCGAGGTGATCACACGGTATTGGAY
4316 P G S ATGACGTGGCAGACCGATCACACGGTATTGGY
4316 T A S TGTGTCCAATACCGTGTGATCACCTGTCCCTCCCTGGTCCCTCTAATTCTCCCT
4316 T G S TGTGTCCAATACCGTGTGATCGCCTGTCCCTCCCTGGTCCCTCTAATTCTCCCT
CCCTAAGGCTGTCCCTGATCTCTCTTGCTATTCCCAAGCCGAGACTGCTCCCTTACAAATTCTGGCTGCTCCCTTTCCCTGTGTCCAATACCGTGTGATC[AG]CCT
GTCCCTCCCTGGTCCCTCTAATTCTCCCTTGTGACTATTCTGTAATCCCACTCCCGTTCCTGAGCCCCGGGATTGTTTTCTTGGTTCCCCAGAATGT
4316 IS [AG]
4444 I A GTGTCTGGAACACTAGAGAAGGCTGGTCAGTACCA
4444 P C A ATGACGTGGCAGACCACTCTGGAGCATTTCTC
4444 P T A CGCGCCGAGGTACTCTGGAGCATTTCTCA
4444 T C A CTGATGAGAAATGCTCCAGAGTGGGTACTGACCAGCCTTCTCTAGTGTTCCAGACACCT
4444 T T A CTGATGAGAAATGCTCCAGAGTAGGTACTGACCAGCCTTCTCTAGTGTTCCAGACACCT
GTCCTTGCACCCAGATGAGACTAAAAACATGCTGGAAATGATCTTTACCCCAAGAAACTCAGACAGGTGTCTGGAACACTAGAGAAGGCTGGTCAGTACC[CT]ACT
CTGGAGCATTTCTCATCAGTAGTTCACATACAAATCATCCATCCTTGCCAATAGTGTCATCCTCACAGTGAACACTCAGTGGCCCATGGCATTTTAT
ctg2712
15
CYP19
4444 IS [CT]
4192 I S TTAAAATTTACCATTACTTAAAAAGAACTTTCTATCCATAGTACTAACCAAAAAAAAATGT
4192 P T S CGCGCCGAGGATAAGATGGAACACAATGATAAAG
4192 P C S ATGACGTGGCAGACGTAAGATGGAACACAATGATAAAG
4192 T T S CATGCTTTATCATTGTGTTCCATCTTATCATTTTTTTTTTGGTTAGTACTATGGATAGAAAGTTCTTTTTAAGTAATGGTAAATTTTAATT
4192 T C S CATGCTTTATCATTGTGTTCCATCTTACCATTTTTTTTTTGGTTAGTACTATGGATAGAAAGTTCTTTTTAAGTAATGGTAAATTTTAATT
CTGAGATGTGGAAGGAAGGAAACAGAATTCATTTTCAAACCAAGGTATGAATTTTGCTTTTTCACCCTTCTCACATGCTTTATCATTGTGTTCCATCTTA[TC]CATTT
TTTTTTGGTTAGTACTATGGATAGAAAGTTCTTTTTAAGTAATGGTAAATTTTAATTAAAAATAAGATACAGCTTGTCTGGTGTTTTCAAAATTT
ctg19030
5
4192 IS [TC]
4236 I S GCCAAAGGGACAGGACGGAGAGACTTTAACATCAATTA
4236 P G S ATGACGTGGCAGACCTTCCTCATGACCTTTCTTC
4236 P A S CGCGCCGAGGTTTCCTCATGACCTTTCTTC
4236 T G S AGACGAAGAAAGGTCATGAGGAAGAATTGATGTTAAAGTCTCTCCGTCCTGTCCCTTTGGCCT
4236 T A S AGACGAAGAAAGGTCATGAGGAAAAATTGATGTTAAAGTCTCTCCGTCCTGTCCCTTTGGCCT
GTCAGGAGGGAGAGTCCAGCAGCAGAAAGTCCAGCTACCAAGGGAATGTTGGACTCAGTGGGAGCTAAGGAAGTAAGAGACGAAGAAAGGTCATGAGGAA[GA]A
ATTGATGTTAAAGTCTCTCCGTCCTGTCCCTTTGGCCTTTTTTCTGTACATTCATTACTAGGAGCAGAAGAGCTATCTAGTTTAATACAAGAAGCAGAG
ctg13446
1
4236 IS [GA]
4238 I A GGATTTGTCACAGCATCACACTCAACCACTGAGGATTTC
4238 P G A ATGACGTGGCAGACGAAAGAGCACCATGAATTTTAC
4238 P T A CGCGCCGAGGTAAAGAGCACCATGAATTTTAC
4238 T G A TTCTGTAAAATTCATGGTGCTCTTTCAAATCCTCAGTGGTTGAGTGTGATGCTGTGACAAATCCAG
4238 T T A TTCTGTAAAATTCATGGTGCTCTTTAAAATCCTCAGTGGTTGAGTGTGATGCTGTGACAAATCCAG
TACAGGTTGTGTTCCATGGGAAGCTTCCAGGGTTTTGGAAACATTCCACGAACCCATTGGCTGGATTTGTCACAGCATCACACTCAACCACTGAGGATTT[GT]AAA
GAGCACCATGAATTTTACAGAAGAATGATCTTTTCACTTCCTATTGAGCTGGGTGCCTAACAGAGTGAGGAAGCTGCCTTCAAAGGGTAGATCCCAA
ctg13446
1
4238 IS [GT]
4241 I S TCAGTGGACTCAAGTGTGAGCAAAGTAAGTCTGGTTCTA
4241 P A S CGCGCCGAGGTGCCTCTTTCTTCACTTG
4241 P G S ATGACGTGGCAGACCGCCTCTTTCTTCACTTG
4241 T A S ATCTCAAGTGAAGAAAGAGGCAAGAACCAGACTTACTTTGCTCACACTTGAGTCCACTGAAG
4241 T G S ATCTCAAGTGAAGAAAGAGGCGAGAACCAGACTTACTTTGCTCACACTTGAGTCCACTGAAG
TATGACACCATCTGCACCAGGGAAGGGAAGGCATGCAGACCTGACTCTAATGCCAGCTAGGACGTGAGATGGTGCTACCATCTCAAGTGAAGAAAGAGGC[AG]AG
AACCAGACTTACTTTGCTCACACTTGAGTCCACTGAAGCCAGGGTCACACTTGCAAGTGTAATTATTGATGGTCTCTACACATTCACCGTGGCCACTG
ctg13446
1
4241 IS [AG]
4294 I A CCAGCGCTAAAATGAAGAGTATGTGTTTTGCCAGTGAT
4294 P A A CGCGCCGAGGATTCTTTATCTCTCAAATGAATTTCT
4294 P G A ATGACGTGGCAGACGTTCTTTATCTCTCAAATGAATTTCT
4294 T A A GTGCAGAAATTCATTTGAGAGATAAAGAATTCACTGGCAAAACACATACTCTTCATTTTAGCGCTGGGC
4294 T G A GTGCAGAAATTCATTTGAGAGATAAAGAACTCACTGGCAAAACACATACTCTTCATTTTAGCGCTGGGC
TTAATATGTATGCAAATGAAAATAATAATTCAGAATTCATTCACTTTAACTGTCTTAAATTGCCCAGCGCTAAAATGAAGAGTATGTGTTTTGCCAGTGA[AG]TTCTTT
ATCTCTCAAATGAATTTCTGCACAGCTGCCTAAGAAATCTAACAGTGGCAGGTAATGGCCCCTGCAGACTGTAATGCTAAGTGGTAACTAAGTC
ctg14391
11
4294 IS [AG]
4490 I S CCAGAGCTCCCAGAGTTCCAGCTTCCAGA
4490 P A S CGCGCCGAGGTACTTCCAGGTCCAGAG
4490 P G S ATGACGTGGCAGACCACTTCCAGGTCCAGA
4490 T A S GGAGCTCTGGACCTGGAAGTACTGGAAGCTGGAACTCTGGGAGCTCTGGAA
4490 T G S GGAGCTCTGGACCTGGAAGTGCTGGAAGCTGGAACTCTGGGAGCTCTGGAA
TGGGAGCTCTGGACCTGGAAGTACTGGAAACCGAAACCCTGGGAGCTCTGGGACTGGAGGGACTGCAACCTGGAAACCTGGGAGCTCTGGACCTGGAAGT[AG]
CTGGAAGCTGGAACTCTGGGAGCTCTGGAACTGGAAGTACTGGAAACCAAAACCCTGGGAGCCCTAGACCTGGTAGTACCGGAACCTGGAATCCTGGCAG
FGA
4490 IS [AG]
4498 I A GAAGACGCTGTACCTGGCAGACACTTTCCCA
4498 P C A ATGACGTGGCAGACCACCAACTTTAGGGACTC
4498 P T A CGCGCCGAGGTACCAACTTTAGGGACTCT
4498 T C A CTGCAGAGTCCCTAAAGTTGGTGGGGAAAGTGTCTGCCAGGTACAGCGTCTTCAT
4498 T T A CTGCAGAGTCCCTAAAGTTGGTAGGGAAAGTGTCTGCCAGGTACAGCGTCTTCAT
AGCTGAGCCTCGGCAATGCCCTTTTCACCGACCTGGTGGTAGACCTGCAGGACACCTTCGTAAGTGCCATGAAGACGCTGTACCTGGCAGACACTTTCCC[CT]AC
CAACTTTAGGGACTCTGCAGGGGCCATGAAGCAGATCAATGATTATGTGGCAAAGCAAACGAAGGGCAAGATTGTGGACTTGCTTAAGAACCTCGATA
ctg13206
14
SERPINA5
4498 IS [CT]

FIGURE 129B

4499	I		A	AGTTCCTTTCTAGAAAAACACTGGGTGATTCTAGGGGAACTTCA			
4499	P	T	A	CGCGCCGAGGTGATCAGAAACAGCCAATT			
4499	P	C	A	ATGACGTGGCAGACCGATCAGAAACAGCCAAT			
4499	T	T	A	TCTGAATTGGCTGTTTCTGATCAGAAGTTCCCCTAGAATCACCCAGTGTTTTTCTAGAAAGGAACTTG			
4499	T	C	A	TCTGAATTGGCTGTTTCTGATCGGAAGTTCCCCTAGAATCACCCAGTGTTTTTCTAGAAAGGAACTTG			
4499	IS	[TC]		AAAGTCACCATAGGTTGAGGGTACATCTGAGAAGCCAGCACTTGGAGTTCAGGCTCAAGTTCCTTTCTAGAAAAACACTGGGTGATTCTAGGGGAACTTC[TC]GAT CAGAAACAGCCAATTCAGAGTGAGAGAAGAAAACGTGACCATGCAGTTCCTGTGGTTACCAGCCTTGCCCCTCTCTTGCCTTCTGGGAGTTATAAAA	ctg53	14
4034	I		S	CCCATGAGCAAATCTAAACAGCATTGGATTGAGTAGTATGCCTAAT			
4034	P	C	S	CGCGCCGAGGGTTAGAATTAGGGCTAAACCATGT			
4034	P	T	S	CGCGCCGAGGATTAGAATTAGGGCTAAACCATGT			
4034	T	C	S	GATCACATGGTTTAGCCCTAATTCTAACTTAGGCATACTACTCAATCCAATGCTGTTTAGATTTGCTCATGGGAT			
4034	T	T	S	GATCACATGGTTTAGCCCTAATTCTAATTTAGGCATACTACTCAATCCAATGCTGTTTAGATTTGCTCATGGGAT			
4034	IS	[CT]		TATCTGTACTGATTTTGCTATGGTCTAGCTAGTTATGGTATTTCAATGATCACATGGTTTAGCCCTAATTCTAA[CT]TTAGGCATACTACTCAATCCAATGCTGTTTA GATTTGCTCATGGGATTTGTTATAAAGTTCATGTCTCTCAGTGTTCTCACTATCCCATTCTTGCC	ctg15944	11
4058	I		S	TGCAGTGTTCCGCCTCCAGTTCTCCAGC			
4058	P	A	S	CGCGCCGAGGTTCATCCTTCTAAGGCTGGCY			
4058	P	C	S	CGCGCCGAGGGTCATCCTTCTAAGGCTGGY			
4058	T	A	S	CTGAGCCAGCCTTAGAAGGATGAACTGGAGAACTGGAGGCGGAACACTGCAGA			
4058	T	C	S	CTGAGCCAGCCTTAGAAGGATGACCTGGAGAACTGGAGGCGGAACACTGCAGA			
4058	IS	[AC]		CTGGTGAGAAAAAATAGGAGCTGGCATCTGAGCCAGCCTTAGAAGGATGA[AC]CTGGAGAACTGGAGGCGGAACACTGCAGACTCTGAAACAGGCCTGGGAAG	ctg22fin4	22	
4060	I		A	CTCTGAGGCACAGACCACCAAGGGACTT			
4060	P	C	A	CGCGCCGAGGCAGCACCTAAGCTGGTCY			
4060	P	G	A	CGCGCCGAGGGAGCACCTAAGCTGGTCTY			
4060	T	C	A	GAGGAGACCAGCTTAGGTGCTGAGTCCCTTGGTGGTCTGTGCCTCAGAGCC			
4060	T	G	A	GAGGAGACCAGCTTAGGTGCTCAGTCCCTTGGTGGTCTGTGCCTCAGAGCC			
4060	IS	[CG]		GGGGTGGAAAAAGTGTCCCTGGGGCTCTGAGGCACAGACCACCAAGGGACT[CG]AGCACCTAAGCTGGTCTCCTCCCACCCCTTGCCCCCTCCCACCCCCTTGC			
4075	I		A	TGGGAACTTAGGTGGTTTGCATGTTTAAAGGAATAAGACTGAGAA			
4075	P	C	A	CGCGCCGAGGCTGCCAATTAGATGGGTTTTAG			
4075	P	T	A	CGCGCCGAGGTTGCCAATTAGATGGGTTTTAGC			
4075	T	C	A	ATGAGCTAAAACCCATCTAATTGGCAGTCTCAGTCTTATTCCTTTAAACATGCAAACCACCTAAGTTCCCAAC			
4075	T	T	A	ATGAGCTAAAACCCATCTAATTGGCAATCTCAGTCTTATTCCTTTAAACATGCAAACCACCTAAGTTCCCAAC			
4075	IS	[CT]		GTTTGTTGGGAACTTAGGTGGTTTGCATGTTTAAAGGAATAAGACTGAGA[CT]TGCCAATTAGATGGGTTTTAGCTCATTTGAATATTTAATGTGGAGGCTGT	MULTIPLE	MULTIPLE	
4080	I		S	TGGTGGGAGGTCTTTGGGGCCCAAGT			
4080	P	T	S	CGCGCCGAGGATCCCAAGTCCACCTCAG			
4080	P	G	S	CGCGCCGAGGCTCCCAAGTCCACCTCA			
4080	T	T	S	GCACCTGAGGTGGACTTGGGATCTTGGGCCCCAAAGACCTCCCACCAGC			
4080	T	G	S	GCACCTGAGGTGGACTTGGGAGCTTGGGCCCCAAAGACCTCCCACCAGC			
4080	IS	[TG]		GGGGTTCATGACACCAGCAGGGGTTTCTAGCACCTGAGGTGGACTTGGGA[TG]CTTGGGCCCCAAAGACCTCCCACCAGCAGCTGTGCGCCCCCTTCCGAGCC	MULTIPLE	22	
4088	I		S	TGTTGCTTGTCTGTGGGAATTGGGAATTTCACACCA			
4088	P	A	S	CGCGCCGAGGTAGCTCTGAATTTCTAGGAAGC			
4088	P	G	S	CGCGCCGAGGCAGCTCTGAATTTCTAGGAAGC			
4088	T	A	S	TCGGGCTTCCTAGAAATTCAGAGCTAGGTGTGAAATTCCCAATTCCCACAGACAAGCAACATC			
4088	T	G	S	TCGGGCTTCCTAGAAATTCAGAGCTGGGTGTGAAATTCCCAATTCCCACAGACAAGCAACATC			
4088	IS	[AG]		TTCTCTATTTCTATTTCTCTTTTGTTCGGGCTTCCTAGAAATTCAGAGCT[AG]GGTGTGAAATTCCCAATTCCCACAGACAAGCAACATCCCCAGCAGTAATA	MULTIPLE	MULTIPLE	
4098	I		A	CCTCCCATGGCAGAGGTGGCTGCTTTT			
4098	P	C	A	CGCGCCGAGGCAGTGTAGTGAGGAACTGC			
4098	P	G	A	CGCGCCGAGGGAGTGTAGTGAGGAACTGCT			
4098	T	C	A	ACTCAGCAGTTCCTCACTACACTCAAAGCAGCCACCTCTGCCATGGGAGGCT			
4098	T	G	A	ACTCAGCAGTTCCTCACTACACTCAAAGCAGCCACCTCTGCCATGGGAGGCT			
4098	IS	[CG]		TCTCGCAGGCTTCCTCTACTCCAGCCTCCCATGGCAGAGGTGGCTGCTTT[CG]AGTGTAGTGAGGAACTGCTGAGTGGCCCGTGGGGCGTGACACCCCAGCTG	ctg22fin4	22	
4101	I		A	GAACAACAAAGTAGAAAGGGTAAAAGATTGCCTCGAAGATCACCA			
4101	P	C	A	CGCGCCGAGGCAGCACAGAGCAGGGAY			
4101	P	T	A	CGCGCCGAGGTAGCACAGAGCAGGGATTY			
4101	T	C	A	ATCAAATCCCTGCTCTGTGCTGGGTGATCTTCGAGGCAATCTTTTACCCTTTCTACTTTGTTGTTCTC			
4101	T	T	A	ATCAAATCCCTGCTCTGTGCTAGGTGATCTTCGAGGCAATCTTTTACCCTTTCTACTTTGTTGTTCTC			
4101	IS	[CT]		CTATGAGAACAACAAAGTAGAAAGGGTAAAAGATTGCCTCGAAGATCACC[CT]AGCACAGAGCAGGGATTTGATTTCAGGTGTGTCTTGTTCCAAACTTACTA	ctg22fin4	22	
4117	I		S	GGTCCCCACTGGAAATGCCAGCCCA			
4117	P	A	S	CGCGCCGAGGTATCCTCCAGGGTAAAATGGA			
4117	P	G	S	CGCGCCGAGGCATCCTCCAGGGTAAAATGG			
4117	T	A	S	TCCTTCCATTTTACCCTGGAGGATAGGGCTGGCATTTCCAGTGGGGACCAG			
4117	T	G	S	TCCTTCCATTTTACCCTGGAGGATGGGGCTGGCATTTCCAGTGGGGACCAG			
4117	IS	[AG]		GAGACCAGGTTGAGGGGTGCAGGAGATCCTTCCATTTTACCCTGGAGGAT[AG]GGGCTGGCATTTCCAGTGGGGACCAGCCAGGCCTCACTGGCCAGGCCCAT	ctg22fin4	22	
4119	I		A	CCAATTATACTATCCCAGCTCCCATCCTAAAATCCCCTTCTAAAATC			
4119	P	INS	A	CGCGCCGAGGATAAATAGAAGGCAAAAGATCATCAGT			
4119	P	DEL	A	CGCGCCGAGGAGAAGGCAAAAGATCATCAGTC			
4119	T	INS	A	TGCTCAAATGACTGATGATCTTTTGCCTTCTATTTATATTTTAGAAGGGGATTTTAGGATGGGAGCTGGGATAGTATAATTGGCT			
4119	T	DEL	A	TGCTCAAATGACTGATGATCTTTTGCCTTCTATTTTAGAAGGGGATTTTAGGATGGGAGCTGGGATAGTATAATTGGCT			
4119	IS	[-TAAATA]		TAGCCAATTATACTATCCCAGCTCCCATCCTAAAATCCCCTTCTAAAATA[-TAAATA]GAAGGCAAAAGATCATCAGTCATTTGAGCAAAATTTCAGCATGACAGCAT	ctg22fin4	22	
4129	I		A	GCGCATTTCACCCTCTTTTTATTTTCCCACAAATGCAGTCA			
4129	P	T	A	CGCGCCGAGGTTCCTTTCAAACAACTCAATGACY			
4129	P	C	A	CGCGCCGAGGCTCCTTTCAAACAACTCAATGACY			
4129	T	T	A	ATTTGTCATTGAGTTGTTTGAAAGGAAGACTGCATTTGTGGGAAAATAAAAAGAGGGTGAAATGCGCAT			
4129	T	C	A	ATTTGTCATTGAGTTGTTTGAAAGGAGGACTGCATTTGTGGGAAAATAAAAAGAGGGTGAAATGCGCAT			
4129	IS	[TC]		AATCTATTATGCGCATTTCACCCTCTTTTTATTTTCCCACAAATGCAGTC[TC]TCCTTTCAAACAACTCAATGACAAATGTTTTCAGCAATCATTACTAACCT	ctg22fin7	22	
4155	I		S	CCCCGTCCACAGTTTACAGACGAATTCGCAT			
4155	P	C	S	ATGACGTGGCAGACGGACTCCTGTCTCCCY			
4155	P	G	S	CGCGCCGAGGCGACTCCTGTCTCCCY			
4155	T	C	S	GTATGGGAGACAGGAGTCCTGCGAATTCGTCTGTAAACTGTGGACGGGGGG			
4155	T	G	S	GTATGGGAGACAGGAGTCGTGCGAATTCGTCTGTAAACTGTGGACGGGGGG			
4155	IS	[CG]		TCAGATAAGAGCTTGTGGACCTGTGCTCAATTCTGGTTCTCCTTCCTTCTTTCAACTGTTGTCTGTGAAAGGAGGGATGCAGGTATGGGAGACAGGAGTC[CG]TG CGAATTCGTCTGTAAACTGTGGACGGGGGGGTGGGTGGGGGGGGTAACGTGGGCACCTTTGTGCACAAGTGCATGAATAGGAGGGGTGAGCAACTGTG			
4156	I		A	TGGGAGACAGGAGTCCTGCGAATTCGTCTT			
4156	P	G	A	ATGACGTGGCAGACGTAAACTGTGGACGGGY			
4156	P	A	A	CGCGCCGAGGATAAACTGTGGACGGGGY			
4156	T	G	A	ACCCCCCCGTCCACAGTTTACAGACGAATTCGCAGGACTCCTGTCTCCCATA			
4156	T	A	A	ACCCCCCCGTCCACAGTTTATAGACGAATTCGCAGGACTCCTGTCTCCCATA			

				GTGGACCTGTGCTCAATTCTGGTTCTCCTTCCTTCTTTCAACTGTTGTCTGTGAAAGGAGGGATGCAGGTATGGGAGACAGGAGTCCTGCGAATTCGTCT[GA]TAA			
4156	IS	[GA]		ACTGTGGACGGGGGGGTGGGTGGGGGGGTAACGTGGGCACCTTTGTGCACAAGTGCATGAATAGGAGGGGTGAGCAACTGTGTGTCCATCACCTTT			
4185	I		A	GAGAAGCGCTTTGGGCTCTCCAGTTCTTCATCT			
4185	P	A	A	CGCGCCGAGGAGGTCTCATTTCCAGCT			
4185	P	G	A	ATGACGTGGCAGACGGGTCTCATTTCCAGC			
4185	T	A	A	TTCAAGCTGGAAATGAGACCTGATGAAGAACTGGAGAGCCCAAAGCGCTTCTCAA			
4185	T	G	A	TTCAAGCTGGAAATGAGACCCGATGAAGAACTGGAGAGCCCAAAGCGCTTCTCAA			
				GCCAAGGCCTCCTGCAGCTCTGCCAACTCCTGTACAGCGCCTACTTCAAGAGCAGCCTCACCACCATTGAGAAGCGCTTTGGGCTCTCCAGTTCTTCATC[AG]GG			
4185	IS	[AG]		TCTCATTTCCAGCTTGAATGAGGTGAGCAGGAGGTTCTGGTCCATCAGACTCCACTTGTGCACCACCCTGACCACAAGATCCAGGAGAAGCAGAGGAA			
4189	I		A	AGAGACAGAAGCCAACGAAGGAGGTCATTCATCAACAAATATT			
4189	P	G	A	ATGACGTGGCAGACGTTTATTGGAGACCGACTTT			
4189	P	A	A	CGCGCCGAGGATTTATTGGAGACCGACTTT			
4189	T	G	A	GCACAAAGTCGGTCTCCAATAAACATATTTGTTGATGAATGACCTCCTTCGTTGGCTTCTGTCTCTCA			
4189	T	A	A	GCACAAAGTCGGTCTCCAATAAATATATTTGTTGATGAATGACCTCCTTCGTTGGCTTCTGTCTCTCA			
				GCCTCCAGAGAGGTGGATGCCTGGGTTGAGAGACACAGCTGCTACGTGATAGATGTTGAGAGACAGAAGCCAACGAAGGAGGTCATTCATCAACAAATAT[GA]TT			
4189	IS	[GA]		TATTGGAGACCGACTTTGTGCAAAGCAATGCTAATCAGGGTTCTCCATGGAGCTTCCCTCAGCTCTTACCTCACCTCCCTCCATTTACATTAGGGCCT	ctg28098	3	SLC21A2
4193	I		A	TCCAGAATTATTAGCTCAATTGTATTCAGTCTGAATAATCTTAAAAAAAAAAAAAAGAAAC			
4193	P	T	A	CGCGCCGAGGTAAACTATAACATGGTAACAGTTG			
4193	P	G	A	ATGACGTGGCAGACGAAACTATAACATGGTAACAGTTG			
4193	T	T	A	GTGCCAACTGTTACCATGTTATAGTTTATTTCTTTTTTTTTTTTTTAAGATTATTCAGACTGAATACAATTGAGCTAATAATTCTGGACA			
4193	T	G	A	GTGCCAACTGTTACCATGTTATAGTTTCTTTCTTTTTTTTTTTTTTAAGATTATTCAGACTGAATACAATTGAGCTAATAATTCTGGACA			
				TTATTAAATTGTCATTGCTAAATAAAGGTTGCCTTTGTTGTCCAGAATTATTAGCTCAATTGTATTCAGTCTGAATAATCTTAAAAAAAAAAAAAGAAA[TG]AAACTAT			
4193	IS	[TG]		AACATGGTAACAGTTGGCACTCTTTTTCCCTCCTCTCCTTGCAGGCATTCTTTAGTGGCAGGCTGAAGGCCAGAGGGAACATCATGCTGAGCC			
4201	I		A	GGATGAGTGAGTTTCACCCACTTTTTCACATTTTAGGGCTT			
4201	P	G	A	ATGACGTGGCAGACGACCTTCTCTCTGGGC			
4201	P	C	A	CGCGCCGAGGCACCTTCTCTCTGGGC			
4201	T	G	A	GTTTGCCCAGAGAGAAGGTCAGCCCTAAAATGTGAAAAAGTGGGTGAAACTCACTCATCCTT			
4201	T	C	A	GTTTGCCCAGAGAGAAGGTGAGCCCTAAAATGTGAAAAAGTGGGTGAAACTCACTCATCCTT			
				TTATCCGGCAACTCTACTCTAGAAGACTTTTTCTTGAGAAATACCTTGAGTTGGGCTTAAGGATGAGTGAGTTTCACCCACTTTTTCACATTTTAGGGCT[GC]ACCT			
4201	IS	[GC]		TCTCTCTGGGCAAACAAGTTGGGAACAAGTTCTTCCTGACCAATGGTGAAATAATGACCTTTGAAAAAGTGAAGGCCTTGTGTGTCAAGTTCCAGG	ctg15131	10	
4235	I		A	TGCTGCAAAAGAAAAGACAAACAACCATTAATTCAGACTAAAC			
4235	P	T	A	CGCGCCGAGGTGACTTTTAAGGATATATTAAATCCAG			
4235	P	A	A	ATGACGTGGCAGACAGACTTTTAAGGATATATTAAATCCAG			
4235	T	T	A	GTATCTGGATTTAATATATCCTTAAAAGTCATTTAGTCTGAATTAATGGTTGTTTGTCTTTTCTTTTGCAGCAAA			
4235	T	A	A	GTATCTGGATTTAATATATCCTTAAAAGTCTTTTAGTCTGAATTAATGGTTGTTTGTCTTTTCTTTTGCAGCAAA			
				ATGTTCAATGGCATGCTTTGTATAAGAATGCAACTTACCTGGCAGGAACAAATTTCTTTGCTGCAAAAGAAAAGACAAACAACCATTAATTCAGACTAAA[TA]GACTT			
4235	IS	[TA]		TTAAGGATATATTAAATCCAGATACAATATGACTTAATTCATCAAGTGTTGCAAACTCGATGCTTCAGGGCCTCTGTAATAATCAGAGCACAAGC	ctg13446	1	
4239	I		A	CTAACAGAGTGAGGAAGCTGCCTTCAAAGGGTAGATA			
4239	P	C	A	ATGACGTGGCAGACCCCAAAGTCCTATGTCAATT			
4239	P	T	A	CGCGCCGAGGTCCAAAGTCCTATGTCAATTC			
4239	T	C	A	CTAAGAATTGACATAGGACTTTGGGATCTACCCTTTGAAGGCAGCTTCCTCACTCTGTTAGGC			
4239	T	T	A	CTAAGAATTGACATAGGACTTTGGAATCTACCCTTTGAAGGCAGCTTCCTCACTCTGTTAGGC			
				ATTTTAAAGAGCACCATGAATTTTACAGAAGAATGATCTTTTCACTTCCTATTGAGCTGGGTGCCTAACAGAGTGAGGAAGCTGCCTTCAAAGGGTAGAT[CT]CCAA			
4239	IS	[CT]		AGTCCTATGTCAATTCTTAGGGACATGCACAGCCAGAATAAAAGCTTTTATTCTTTTTCATGGATATTCTATCTTTTCTGATTTCCACTTTGCCTA	ctg13446	1	
4305	I		A	GGAAATTCTTCTGACCCTGTCCTGCTTGCTGATAGAT			
4305	P	G	A	ATGACGTGGCAGACGTTGAGCCAGTGGCY			
4305	P	C	A	CGCGCCGAGGCTTGAGCCAGTGGCTY			
4305	T	G	A	TGCCAGCCACTGGCTCAACTCTATCAGCAAGCAGGACAGGGTCAGAAGAATTTCCAA			
4305	T	C	A	TGCCAGCCACTGGCTCAAGTCTATCAGCAAGCAGGACAGGGTCAGAAGAATTTCCAA			
				AGTAGCGTCTCTTTCGCCTACCTTACGCTCACCCCATGGTTATATAACCTTTTGAACGGAATTTGGAAATTCTTCTGACCCTGTCCTGCTTGCTGATAGA[GC]TTGA			
4305	IS	[GC]		GCCAGTGGCTGGCAGGGGCATAATCTAATAGGCGAAACTGGAAACACACAAATTCACAGTCCTCTTGTCTTAGCCCAGAGACTGTACAGGCAAGGA	ctg13980	1	
4336	I		S	CGGGTTTCGCAGCACTGTCTGGGCT			
4336	P	T	S	CGCGCCGAGGAATGAAGACCTGCAAAG			
4336	P	C	S	ATGACGTGGCAGACGATGAAGACCTGCAAAG			
4336	T	T	S	CTTTGCAGGTCTTCATTGCCCAGACAGTGCTGCGAAACCCGCC			
4336	T	C	S	CTTTGCAGGTCTTCATCGCCCAGACAGTGCTGCGAAACCCGCC			
				CTTTGCAGGTCTTCAT[TC]GCCCAGACAGTGCTGCGAAACCCGCCTGCCATGAGCCCCGCCGGGCAGCTGTCCCGCACCACGGAGAAGGAGCTGCTCATCTACT			
4336	IS	[TC]		TGCGCGTGGCCACCT	ctg19	19	
4340	I		A	CCAGGGTCTTCTCCAAGGCCTCCCTCTTT			
4340	P	A	A	CGCGCCGAGGACCTAAGAAAAAGCCTTCAA			
4340	P	G	A	ATGACGTGGCAGACGCCTAAGAAAAAGCCTTCA			
4340	T	A	A	GGGGTTGAAGGCTTTTTCTTAGGTAAGAGGGAGGCCTTGGAGAAGACCCTGGAA			
4340	T	G	A	GGGGTTGAAGGCTTTTTCTTAGGCAAGAGGGAGGCCTTGGAGAAGACCCTGGAA			
				GGTGCCAGGCAATGAACAGGAATGGAAAGGAGACCAAGTCCAACTACCGAGTCCGTGTCTACCGTAAGAATTCCAGGGTCTTCTCCAAGGCCTCCCTCTT[AG]CC			
4340	IS	[AG]		TAAGAAAAAGCCTTCAACCCCAGCCTTGGCCCATGAGGGCCTCTGACTTCCACTGGCCTCATTTCCACACACAGAGTTTGAGAACCTTCACAATTACA	ctg15907	6	
4344	I		S	GAAGACACTCCAAATACTGTGAGTGCCCCATTTGCT			
4344	P	C	S	ATGACGTGGCAGACGGAAGTGGGAAAGGGAY			
4344	P	T	S	CGCGCCGAGGAGAAGTGGGAAAGGGAGY			
4344	T	C	S	GGGTCTCCCTTTCCCACTTCCGCAAATGGGGCACTCACAGTATTTGGAGTGTCTTCTG			
4344	T	T	S	GGGTCTCCCTTTCCCACTTCTGCAAATGGGGCACTCACAGTATTTGGAGTGTCTTCTG			
				AATTTTCAATTATTTTTTCTTTAAGCTATTTCATTGAATATTTCTCCCATTCAATATTGGGGGATTGTGTTGGGAGAGGAGGGTCTCCCTTTCCCACTTC[CT]GCAAA			
4344	IS	[CT]		TGGGGCACTCACAGTATTTGGAGTGTCTTCTGGGTCCTGCAGGAGCAGTCTGGTTCCTTCAGAGAGTCTGTGGGTCCTTTTGGGATTGCTGGTTT	ctg18037	7	
4352	I		S	CTGGAGCTGCCTGGTGGGAGCACT			
4352	P	T	S	CGCGCCGAGGATCTTTTCCTTGAGTGTAATTCA			
4352	P	C	S	ATGACGTGGCAGACGTCTTTTCCTTGAGTGTAATTC			
4352	T	T	S	TTAGTGAATTACACTCAAGGAAAAGATGTGCTCCCACCAGGCAGCTCCAGCT			
4352	T	C	S	TTAGTGAATTACACTCAAGGAAAAGACGTGCTCCCACCAGGCAGCTCCAGCT			
				AGACTAGATTCTCACCTGCCTTCAAAGAAGGGCCAATTCCCTTTAAAGGTCGCACCTCCTTGGAACCACAGTCATTAGTGAATTACACTCAAGGAAAAGA[TC]GTG			
4352	IS	[TC]		CTCCCACCAGGCAGCTCCAGCTGTTACCTGAGATACTGAAGTGCAGCTCAGGAGACGATTATTTAAACCTGCCCTTGTTTTAATCGTTATTTTTCTC	MULTIPLE	MULTIPLE	PTGIS
4360	I		A	CTCTTCACTGGGGTCCCTGAGCTCCCA			
4360	P	T	A	CGCGCCGAGGTGAGACAACATGCAGAATTA			
4360	P	C	A	ATGACGTGGCAGACCGAGACAACATGCAGAAT			
4360	T	T	A	CCAGTAATTCTGCATGTTGTCTCAGGGAGCTCAGGGACCCCAGTGAAGAGCC			
4360	T	C	A	CCAGTAATTCTGCATGTTGTCTCGGGGAGCTCAGGGACCCCAGTGAAGAGCC			
				AGGTGTGTGCCTGGGACTCAGGCCTAGGAAGCCCAGGGTAGAGACAAGAGGAGGCACTCACGTTAACACAGAGGCTCTTCACTGGGGTCCCTGAGCTCCC[TC]G			
4360	IS	[TC]		AGACAACATGCAGAATTACTGGGAAGAGGGGCTGGTGGCAGACTTGTGTTTCTGGAGAAGAGAGTCGATCATCTCAGCAAATTCTCAAAGGGAAAAGCC	ctg16105	5	
4362	I		S	AGAAAGAGTCATCCCACTGACCTGTGGGGTCA			

FIGURE 129B

4362	P	A	S	CGCGCCGAGGTCCTGCCAGACCTG				
4362	P	G	S	ATGACGTGGCAGACCCCTGCCAGACCTG				
4362	T	A	S	GGTCCAGGTCTGGCAGGGACCCCACAGGTCAGTGGGATGACTCTTTCTCT				
4362	T	G	S	GGTCCAGGTCTGGCAGGGGACCCCACAGGTCAGTGGGATGACTCTTTCTCT				
4362	IS	[AG]		CTGCCTGATGACCACAGCAGCTACACAGTTCCAGGCTACATGCAGGACTTGGAGGTGGAGCAGGCCCTGACTCCAGGTGAGCTGGTCCAGGTCTGGCAGG[AG]GACCCCACAGGTCAGTGGGATGACTCTTTCTCTTGGAGGCATGGTGCTGGCACATGGTGGCCCATTAGTGCAGGCTGCAGGGTTGGTCGGAGGGCGCTCG	ctg16105	5		
4365	I		A	GGGTCTGTGAAGGGCTTCCTGAGAGAGAAAAGATGT				
4366	P	A	A	CGCGCCGAGGATCAGAACTCCACCTGG				
4366	P	C	A	ATGACGTGGCAGACCTCAGAACTCCACCTGG				
4366	T	A	A	AGTGCCAGGTGGAGTTCTGATCATCTTTTCTCTCTCAGGAAGCCCTTCACAGACCCAG				
4366	T	C	A	AGTGCCAGGTGGAGTTCTGAGCATCTTTTCTCTCTCAGGAAGCCCTTCACAGACCCAG				
4366	IS	[AC]		GTCACCCATGCCCTCCACCTCTGAAGGTTGGTGCTCCTGGGGCCTGGCCTGCTGCTTGACTGTCTGGGTCTGTGAAGGGCTTCCTGAGAGAGAAAAGATG[AC]TCAGAACTCCACCTGGCACTGAATTGATTGAGTTGGGCATTGCAGTCTTAGCCACCATAGGGGGAGGCAAGCGACGGGGACACTAGGAAGGCAGTTCAGA	ctg16105	5		
4372	I		S	GCTTCAGGCAAACCTTAAGGCATGGCAGCT				
4372	P	T	S	CGCGCCGAGGAGTAGCTAATTCACAATGTGT				
4372	P	G	S	ATGACGTGGCAGACCGTAGCTAATTCACAATGTG				
4372	T	T	S	ACTGACACATTGTGAATTAGCTACTGCTGCCATGCCTTAAGGTTTGCCTGAAGCTG				
4372	T	G	S	ACTGACACATTGTGAATTAGCTACGGCTGCCATGCCTTAAGGTTTGCCTGAAGCTG				
4372	IS	[TG]		GATGAGGGAGAACCACGTAGGGATGGAGAAAGCTTGGGGGCAGGGCCAGGGAGCAGGGCGGTAAAGCATCTGGGGTACTGACACATTGTGAATTAGCTAC[TG]GCTGCCATGCCTTAAGGTTTGCCTGAAGCTGAGTGGATGTTTACTGCTGTGCTGGGAAGAGCAGAGGCCATGTCTATGGCCTTCAGGGGTAGGGGGAAGC	ctg16105	5		
4374	I		A	GCACACCTGATGCCACCGTCCCCTT				
4374	P	A	A	CGCGCCGAGGACCCTCATACAACCTTCT				
4374	P	G	A	ATGACGTGGCAGACGCCCTCATACAACCTTC				
4374	T	A	A	GTGAAGAAGGTTGTATGAGGGTAGGGGACGGTGGCATCAGGTGTGCTT				
4374	T	G	A	GTGAAGAAGGTTGTATGAGGGCAGGGGACGGTGGCATCAGGTGTGCTT				
4374	IS	[AG]		CTGAAGCTGAGTGGATGTTTACTGCTGTGCTGGGAAGAGCAGAGGCCATGTCTATGGCCTTCAGGGGTAGGGGGAAGCACACCTGATGCCACCGTCCCCT[AG]CCCTCATACAACCTTCTTCACATCTTCTAGGGGATATTGGGCTGAGTCTACAGCGTGTCTTCACAGATCTGAAGAACATGGATGCCACCTGGCTGGACAG	ctg16105	5		
4382	I		S	CGGAGTAGAGGTTGCTCCTGGAGAGCGT				
4382	P	T	S	CGCGCCGAGGACAGGAGCCCTGAAC				
4382	P	C	S	ATGACGTGGCAGACGCAGGAGCCCTGAA				
4382	T	T	S	GCGAGTTCAGGGCTCCTGTCGCTCTCCAGGAGCAACCTCTACTCCGGA				
4382	T	C	S	GCGAGTTCAGGGCTCCTGCCGCTCTCCAGGAGCAACCTCTACTCCGGA				
4382	IS	[TC]		GGAGGAATCCCCAGGAATGCGAGCGCCCCTTTAAAAGCGCGCGGCTCCTCCGCCTTGCCAGCCGCTGCGCCCGAGCTGGCCTGCGAGTTCAGGGCTCCTG[TC]CGCTCTCCAGGAGCAACCTCTACTCCGGACGCACAGGCATTCCCCGCGCCCCTCCAGCCCTCGCCGCCCTCGCCACCGCTCCCGGCCGCCGCGCTCCGGT	ctg2712	15		
4389	I		S	GGAATGGAAGGGAGCAGAGTGGGGAAGATCA				
4389	P	G	S	ATGACGTGGCAGACCGCTGGTATTTCTCCTG				
4389	P	A	S	CGCGCCGAGGTGCTGGTATTTCTCCTG				
4389	T	G	S	TGAGCAGGAGAAATACCAGCGGATCTTCCCCACTCTGCTCCCTTCCATTCCCA				
4389	T	A	S	TGAGCAGGAGAAATACCAGCAGATCTTCCCCACTCTGCTCCCTTCCATTCCCA				
4389	IS	[GA]		ACGACGTCACGTGATCCGGGATGAGGTGGAGTTCGGCTTTAAGGAGGCGTCTCTTCCTAGCTTCATCAATCTTTAGGATCTGAGCAGGAGAAATACCAGC[GA]GATCTTCCCCACTCTGCTCCCTTCCATTCCCACCCTTCCTTCTTTAATAAGCAGGAGCGAAAAAGACAAATTCCAAAGAGGGTAAGTTGCGAGTTTATGC				
4391	I		A	AGATGCTGTGGTGCACGAGGTCCAGAGATACT				
4391	P	A	A	CGCGCCGAGGATTGACCTTCTCCCCAC				
4391	P	C	A	ATGACGTGGCAGACCTTGACCTTCTCCCCA				
4391	T	A	A	GCTGGTGGGGAGAAGGTCAATGTATCTCTGGACCTCGTGCACCACAGCATCTGT				
4391	T	C	A	GCTGGTGGGGAGAAGGTCAAGGTATCTCTGGACCTCGTGCACCACAGCATCTGT				
4391	IS	[AC]		AGAGATTGAACGTGTGATTGGCAGAAACCGGAGCCCCTGCATGCAAGACAGGAGCCACATGCCCTACACAGATGCTGTGGTGCACGAGGTCCAGAGATAC[AC]TTGACCTTCTCCCCACCAGCCTGCCCCATGCAGTGACCTGTGACATTAAATTCAGAAACTATCTCATTCCCAAGGTAAGTTTGTTTCTCCTACACTGCAA	ctg13284	10		
4406	I		S	GGACACGCAGCCTGGCCTCATGGATAAAT				
4406	P	C	S	ATGACGTGGCAGACGCCAGGGTCCAGC				
4406	P	T	S	CGCGCCGAGGACCAGGGTCCAGCT				
4406	T	C	S	TTTGAGCTGGACCCTGGCTTTATCCATGAGGCCAGGCTGCGTGTCCAG				
4406	T	T	S	TTTGAGCTGGACCCTGGTTTTATCCATGAGGCCAGGCTGCGTGTCCAG				
4406	IS	[CT]		CCACCTGCTAACTGTCCCCACCCCCACAGCAGGCCCAGCACAGGGATCACATTGTCGGGGTGACCTGGCTTATACTTGAAGCCTTTGAGCTGGACCCTGG[CT]TTTATCCATGAGGCCAGGCTGCGTGTCCAGATGGCCACACTGGAGGATGATGTGGTAGAGGAGGAGCGTTATACAGGCCAGTGGAGTGAGTGGAGCCAGC	ctg15749	X		
4409	I		A	GAAGCACCTGAACCAAGTGGGTCCCCAAATAACC				
4409	P	A	A	CGCGCCGAGGAATGGCGTGCAAGTG				
4409	P	T	A	ATGACGTGGCAGACTATGGCGTGCAAGTG				
4409	T	A	A	CAGACACTTGCACGCCATTGTTATTTGGGGACCCACTTGGTTCAGGTGCTTCTC				
4409	T	T	A	CAGACACTTGCACGCCATAGTTATTTGGGGACCCACTTGGTTCAGGTGCTTCTC				
4409	IS	[AT]		TCCAAGTGTTCCTTCTTGCTGCCTCTCTAACACGCCTGGTTAAAATAATCCCTTTGGATGGTGCTGAGAAGCACCTGAACCAAGTGGGTCCCCAAATAAC[AT]ATGGCGTGCAAGTGTCTGGTTCCCAGAAGTTGGTGACTAGGTAAGCAGCTTCAGGGAGAGGGGGCTGATTCCCAGACAGTCGCCTGTTCCTGCGGGGATG	ctg14583	1		
4410	I		S	TCACCACCACACACATGTTCAGCCCAACTT				
4410	P	T	S	CGCGCCGAGGAGAGCCTTTTGTCAGTAAG				
4410	P	C	S	ATGACGTGGCAGACGGAGCCTTTTGTCAGTAAG				
4410	T	T	S	TTGACTTACTGACAAAAGGCTCTAGTTGGGCTGAACATGTGTGTGGTGGTGACT				
4410	T	C	S	TTGACTTACTGACAAAAGGCTCCAGTTGGGCTGAACATGTGTGTGGTGGTGACT				
4410	IS	[TC]		CAACGTATTATTGATATTATTGTCTGTTTTCCTTCTTCCCAATAGAAGAATAAGTCATGGAGCCTGAAGGGTGCCTAGTTGACTTACTGACAAAAGGCTC[TC]AGTTGGGCTGAACATGTGTGTGGTGGTGACTCATTTCCATGCCATTGTGGAATTGAGCAGAGAACCTGCTCTCGGAGGATGCCTAGAAGATGTTGGGAAC	ctg14583	1	ADORA3	
4413	I		S	TCCAAAGAATCAGAGGGATGGCAGACCACACAT				
4413	P	C	S	ATGACGTGGCAGACGGCTTTGAGGATCAAAAGG				
4413	P	T	S	CGCGCCGAGGAGCTTTGAGGATCAAAAGG				
4413	T	C	S	CCTACCTTTTGATCCTCAAAGCCTGTGTGGTCTGCCATCCCTCTGATTCTTTGGACA				
4413	T	T	S	CCTACCTTTTGATCCTCAAAGCTTGTGTGGTCTGCCATCCCTCTGATTCTTTGGACA				
4413	IS	[CT]		TGGGCATCCTGCTGTCCCATGCCAACTCCATGATGAACCCTATCGTCTATGCCTATAAAATAAAGAAGTTCAAGGAAACCTACCTTTTGATCCTCAAAGC[CT]TGTGTGGTCTGCCATCCCTCTGATTCTTTGGACACAAGCATTGAGAAGAATTCTGAGTAGTTATCCATCAGAGATGACTCTGTCTCATTGACCTTCAGAT	ctg14583	1	ADORA3	
4416	I		S	AGGAAGGGAGGACACCTCGCCCAGTAATT				
4416	P	T	S	CGCGCCGAGGACAGACACCCTCCTC				
4416	P	G	S	ATGACGTGGCAGACCCAGACACCCTCCTC				
4416	T	T	S	AATGGAGGAGGGTGTCTGTATTACTGGGCGAGGTGTCCTCCCTTCCTGG				
4416	T	G	S	AATGGAGGAGGGTGTCTGGATTACTGGGCGAGGTGTCCTCCCTTCCTGG				
4416	IS	[TG]		CCAGGCACAGGAAAGGACAGGGTCAGGAAAGGAGGACTCTGGGCGGCAGCCTCCACATTCCCCTTCCACGCTTGGCCCCCAGAATGGAGGAGGGTGTCTG[TG]ATTACTGGGCGAGGTGTCCTCCCTTCCTGGGGACTGTGGGGGGTGGTCAAAAGACCTCTATGCCCCACCTCCTTCCTCCCTCTGCCCTGCTGTGCCTGGG	ctg16775	19		
4423	I		A	AAGTTCAACAGCCTCCTGTTGGGCAATTTCCTT				
4423	P	G	A	ATGACGTGGCAGACGTTCCAGAATCAACTCCAC				
4423	P	C	A	CGCGCCGAGGCTTCCAGAATCAACTCCAC				
4423	T	G	A	GGTAGTGGAGTTGATTCTGGAACAGGAAATTGCCCAACAGGAGGCTGTTGAACTTGA				

FIGURE 129B

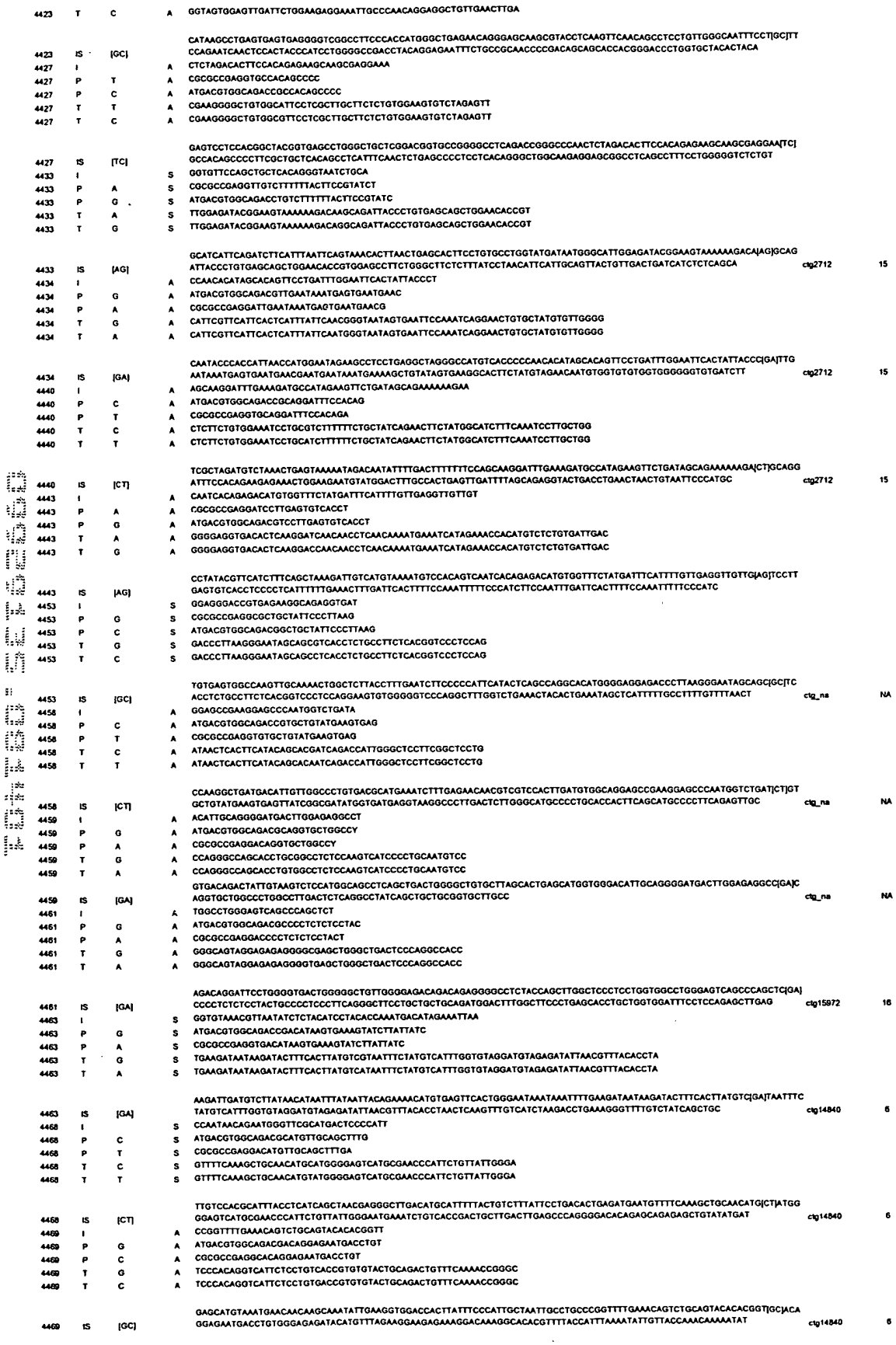


FIGURE 129B

4470	I		A	GATGCAATCAATGCCCCAGTCACCTGCTGA			
4470	P	C	A	ATGACGTGGCAGACCTATAACTTCACCAATAGGAAGAT			
4470	P	T	A	CGCGCCGAGGTTATAACTTCACCAATAGGAAGAT			
4470	T	C	A	TGAGATCTTCCTATTGGTGAAGTTATAGCAGCAGGTGACTGGGGCATTGATTGCATCTG			
4470	T	T	A	TGAGATCTTCCTATTGGTGAAGTTATAACAGCAGGTGACTGGGGCATTGATTGCATCTG			
4470	IS	[CT]		CTCTTTTCTGCTCTTAAGATCAGAATAATCCAGTTCATCCTAAAATGCTTTTCTTTGTGGTTTATTTTCCAGATGCAATCAATGCCCCAGTCACCTGCTG[CT]TATAA CTTCACCAATAGGAAGATCTCAGTGCAGAGGCTCGCGAGCTATAGAAGAATCACCAGCAGCAAGTGTCCCAAAGAAGCTGTGATGTGAGTTCAGC	ctg3461	17	
4473	I		S	AGGAATTGTCAATGAGGTACTTGAGAGCAGCCCCT			
4473	P	C	S	ATGACGTGGCAGACGGTCATTGTGCCCTTC			
4473	P	T	S	CGCGCCGAGGAGTCATTGTGCCCTTCT			
4473	T	C	S	ATGGAGAAGGGCACAATGACCGGGGCTGCTCTCAAGTACCTCATTGACAATTCCTTC			
4473	T	T	S	ATGGAGAAGGGCACAATGACTGGGGCTGCTCTCAAGTACCTCATTGACAATTCCTTC			
4473	IS	[CT]		GCTCTGTGCGCCAGGAGTTCCCCCTGGGTCGCTTCCACACCAAGAAGGACATCAAGGCGGCTGTGCGGAATATGTCCTACATGGAGAAGGGCACAATGAC[CT]G GGGCTGCTCTCAAGTACCTCATTGACAATTCCTTCACTGTGTCCAGTGGGGCTAGGCCCGGGGCCCAGAAGGTGGGCATTGTCTTCACTGATGGCCGGA	ctg14489	1	MATN1
4474	I		S	GACCCTCCCGGGGGCTGCAA			
4474	P	G	S	ATGACGTGGCAGACCTCGTCCTGCTGGGY			
4474	P	A	S	CGCGCCGAGGTTCGTCCTGCTGGGY			
4474	T	G	S	CCTTCCCAGCAGGACGAGTGCAGCCCCCGGGAGGGTCAG			
4474	T	A	S	CCTTCCCAGCAGGACGAATGCAGCCCCCGGGAGGGTCAG			
4474	IS	[GA]		ATGGGACCTTTGAGTGTGGGGTATGCCGTTGTGGGCCTGGCTGGCTGGGATCCCAGTGTGAGTGCTCAGAGGAGGACTATCGCCCTTCCCAGCAGGACGA[GA] TGCAGCCCCCGGGAGGGTCAGCCCGTCTGCAGCCAGCGGGGCGAGTGCCTCTGTGGTCAATGTGTCTGCCACAGCAGTGACTTTGGCAAGATCACGGGCA	ctg13297	17	ITGB3
4476	I		A	CCGCCCCTTTCTTTTCCTCATCTACGAGCAA			
4476	P	T	A	CGCGCCGAGGTCGCACCAGCTGC			
4476	P	C	A	ATGACGTGGCAGACCCGCACCAGCTGC			
4476	T	T	A	GCAGGCAGCTGGTGCGATGCTCGTAGATGAGGAAAAGAAAGGGGCGGTC			
4476	T	C	A	GCAGGCAGCTGGTGCGGTGCTCGTAGATGAGGAAAAGAAAGGGGCGGTC			
4476	IS	[TC]		GCACCCAAGCCACCACTGTGACCACGGTGGGGTTCATGCCGCTGTCCACCCAAGTCCGCTTCACTGTCGACCGCCCCTTTCTTTTCCTCATCTACGAGCA[TC]CG CACCAGCTGCCTGCTCTTCATGGGAAGAGTGGCCAACCCCAGCAGGTCCTAGAGGTGGAGGTCTAGGTGTCTGAAGTGCCTTGGGGGCACCCTCATTT	ctg22fin4	22	SERPIND1
4478	I		A	GGCTATGTGTGCATGCTAACACAGTAACCGTCATATACTCAAAT			
4478	P	G	A	ATGACGTGGCAGACGTGTCAGCTCTAAGAACTG			
4478	P	A	A	CGCGCCGAGGATGTCAGCTCTAAGAACTG			
4478	T	G	A	TCTCCAGTTCTTAGAGCTGACACTTTGAGTATATGACGGTTACTGTGTTAGCATGCACACATAGCCTT			
4478	T	A	A	TCTCCAGTTCTTAGAGCTGACATTTTGAGTATATGACGGTTACTGTGTTAGCATGCACACATAGCCTT			
4478	IS	[GA]		GGCCTGAAGAGCGCCTTGTTTATGTGGTGACCTCAAGAGGGGCTGCTCCTGCACCAAGGCTATGTGTGCATGCTAACACAGTAACCGTCATATACTCAAA[GA]TG TCAGCTCTAAGAACTGGAGATGAGGAGCTGCAAGCCACTCTACAGTTATCAAAGGCACAGCTGAGGGGGTTTGTGCTGACCAAGCTGGTTGCCTGGTG	ctg22fin4	22	
4479	I		A	TCAGAAGCTTTCTACACTGTTTTAGAAGTGGGAAATGGTTTCATTTTTCAT			
4479	P	G	A	ATGACGTGGCAGACGTGTGCCTATTATAAAATTGTGT			
4479	P	A	A	CGCGCCGAGGATGTGCCTATTATAAAATTGTGTC			
4479	T	G	A	AACTGACACAATTTTATAATAGGCACACTGAAAAATGAAACCATTTCCCACTTCTAAAACAGTGTAGAAAGCTTCTGAAT			
4479	T	A	A	AACTGACACAATTTTATAATAGGCACATTGAAAAATGAAACCATTTCCCACTTCTAAAACAGTGTAGAAAGCTTCTGAAT			
4479	IS	[GA]		TTGGTGTTTACGGATAGGCAACTGGTTCATTTTTCTAGCAAACTAAGAATTCAGAAGCTTTCTACACTGTTTTAGAAGTGGGAAATGGTTTCATTTTTCA[GA]TGTGC CTATTATAAAATTGTGTCAGTTCCATTGTTGGGAGAGTTGACAAACTTAGAATAGGAGCTGTGGAATAGATGAAAATATTGTACTTATATTAAAT	ctg22fin4	22	
4480	I		S	AGCCACGAGATGACCTCTTGACACTTGTCCAGT			
4480	P	T	S	CGCGCCGAGGAACCTTCTTCTTGTCGG			
4480	P	G	S	ATGACGTGGCAGACCACCTTCTTCTTGTCGG			
4480	T	T	S	GAGGCCGACAAGAAGAAGGTTCTGGACAAGTGTCAAGAGGTCATCTCGTGGCTGG			
4480	T	G	S	GAGGCCGACAAGAAGAAGGTGCTGGACAAGTGTCAAGAGGTCATCTCGTGGCTGG			
4480	IS	[TG]		CAGCCAAGAACGCCCTGGAGTCCTACGCCTTCAACATGAAGAGCGCCGTGGAGGATGAGGGGCTCAAGGGCAAGATCAGCGAGGCCGACAAGAAGAAGGT[TG] CTGGACAAGTGTCAAGAGGTCATCTCGTGGCTGGACGCCAACACCTTGGCCGAGAAGGACGAGTTTGAGCACAAGAGGAAGGAGCTGGAGCAGGTGTGTA	ctg15907	6	MULTIPLE SHORT GENE NAMES
4483	I		S	CTTCCTCACCTCCCTGGCGCTCAGAAT			
4483	P	C	S	ATGACGTGGCAGACGCTTGGCTCAGACAGA			
4483	P	T	S	CGCGCCGAGGACTTGGCTCAGACAGA			
4483	T	C	S	CATGTCTGTCTGAGCCAAGCTTCTGAGCGCCAGGGAGGTGAGGAAGGT			
4483	T	T	S	CATGTCTGTCTGAGCCAAGTTTCTGAGCGCCAGGGAGGTGAGGAAGGT			
4483	IS	[CT]		GTCCTAAGACTGATGTTGCTAATAAGTGGGGGCATGGGCAGGGGGGGCCTCCTTCTAGGAGTGATGACCACCCTTAATACCACATGTCTGTCTGAGCCAAG[CT]TT CTGAGCGCCAGGGAGGTGAGGAAGGTTGGACTTCACCAGAGAGGCTTTGTGGACACCCTTTATCATCTTAGTGAGTGCTAGTGTCAAAACAAAGGGAG			
4484	I		A	GCCTTGCTCATGACTGTGTTTCTAACACCAAACACAT			
4484	P	A	A	CGCGCCGAGGATGTTCAGTAGAGAGCAGC			
4484	P	G	A	ATGACGTGGCAGACGTGTTCAGTAGAGAGCAG			
4484	T	A	A	AGCAGCTGCTCTCTACTGAACATTGTGTTTGGTGTTAGAAACACAGTCATGAGCAAGGCAC			
4484	T	G	A	AGCAGCTGCTCTCTACTGAACACTGTGTTTGGTGTTAGAAACACAGTCATGAGCAAGGCAC			
4484	IS	[AG]		CTGTAAGATCCTAGAAAGTGGGGGCCGTGCCTTGCTCATGACTGTGTTTCTAACACCAAACACA[AG]TGTTCAGTAGAGAGCAGCTGCTGAGTACGTTTCTGCTAA ATGACAGTTGATGGAGGACATTTAGGGTTGCTTGGAGGTCAAGTCAAGGAGGCATTTAACA			
4487	I		S	CCCTGCAGCCTGGACCCTGACACT			
4487	P	G	S	CGCGCCGAGGCCTAAAGCAAGTCACAGTAG			
4487	P	C	S	ATGACGTGGCAGACGCTAAAGCAAGTCACAGTA			
4487	T	G	S	TCCCCTACTGTGACTTGCTTTAGGGTGTCAGGGTCCAGGCTGCAGGGGC			
4487	T	C	S	TCCCCTACTGTGACTTGCTTTAGCGTGTCAGGGTCCAGGCTGCAGGGGC			
4487	IS	[GC]		GGTGAAGCTCAGAGAAGGGTCGGATCTGAGAGAATGGGGAGGCCTGAGTGGGAGTGGGGGGCCTTGCTCCACCCCCATCCCCTACTGTGACTTGCTTTAG[GC] GTGTCAGGGTCCAGGCTGCAGGGGCTGGGCCAATTTGTGGAGAGGCCGGGTGCCTTTCTGTCTTGCTTCCAGGGGGCTGGTTCACACTGTTCTTGGGCGC	ctg22fin4	22	LIF
4506	I		S	GCTATGCAGAAGAAACGGTGATGGGGAGGGT			
4506	P	C	S	ATGACGTGGCAGACGTCCAGCAGTCCTCC			
4506	P	T	S	CGCGCCGAGGATCCAGCAGTCCTCC			
4506	T	C	S	AGGGGGAGGACTGCTGGACCCCTCCCCATCACCGTTTCTTCTGCATAGCCT			
4506	T	T	S	AGGGGGAGGACTGCTGGATCCCTCCCCATCACCGTTTCTTCTGCATAGCCT			
4506	IS	[CT]		AGGGAGGGAGATAGGCACGGATGGCAGTGGCTGCTGGCTTTCAGGGAGGGAGAGGGAACAGGGTTCCTAGGGCCTGGTGGGCAGGGGGAGGACTGCTGGA[C T]CCCTCCCCATCACCGTTTCTTCTGCATAGCCTGGATCTCCTCAAGTCCCCAAGATTCACACCTGACTCTGAAATCTGAAGACCTCGAGCAGATGATGCCA			
4506	I		A	GTCCCCTGCCCACTTGCTCCCCT			
4506	P	G	A	ATGACGTGGCAGACGTGAGCACTGCGTAC			
4506	P	A	A	CGCGCCGAGGATGAGCACTGCGTACA			
4506	T	G	A	TGTTTGTACGCAGTGCTCACGGGGAGCAAGTGGGCAGGGGACGG			
4506	T	A	A	TGTTTGTACGCAGTGCTCATGGGGAGCAAGTGGGCAGGGGACGG			
4508	IS	[GA]		CTGCAGGAAGGGGTGCACCGGAAGGAGCCCCAGGGGGCCACGTAGCAGCGGCTCAGTTGGTGGCCATCGATCTGGACCGTCCCCTGCCCACTTGCTCCCC[GA] TGAGCACTGCGTACAAACATCCAAAAGTTCAACAACACCAGAACTGTGTGTCTCATGGTATATAACTCTTAAAGCAAATAAATGAACTGACTTCAACTGG	ctg12414	1	
4511	I		A	GGTCATCTTTGCTGTCGTCCTCATCTTCCTGCTA			
4511	P	C	A	ATGACGTGGCAGACCTGCTGGCTGCCC			
4511	P	T	A	CGCGCCGAGGTTGCTGGCTGCCC			
4511	T	C	A	TGTAGGGCAGCCAGCAGAGCAGGAAGATGAGGACGACAGCAAAGATGACCCG			

FIGURE 129B

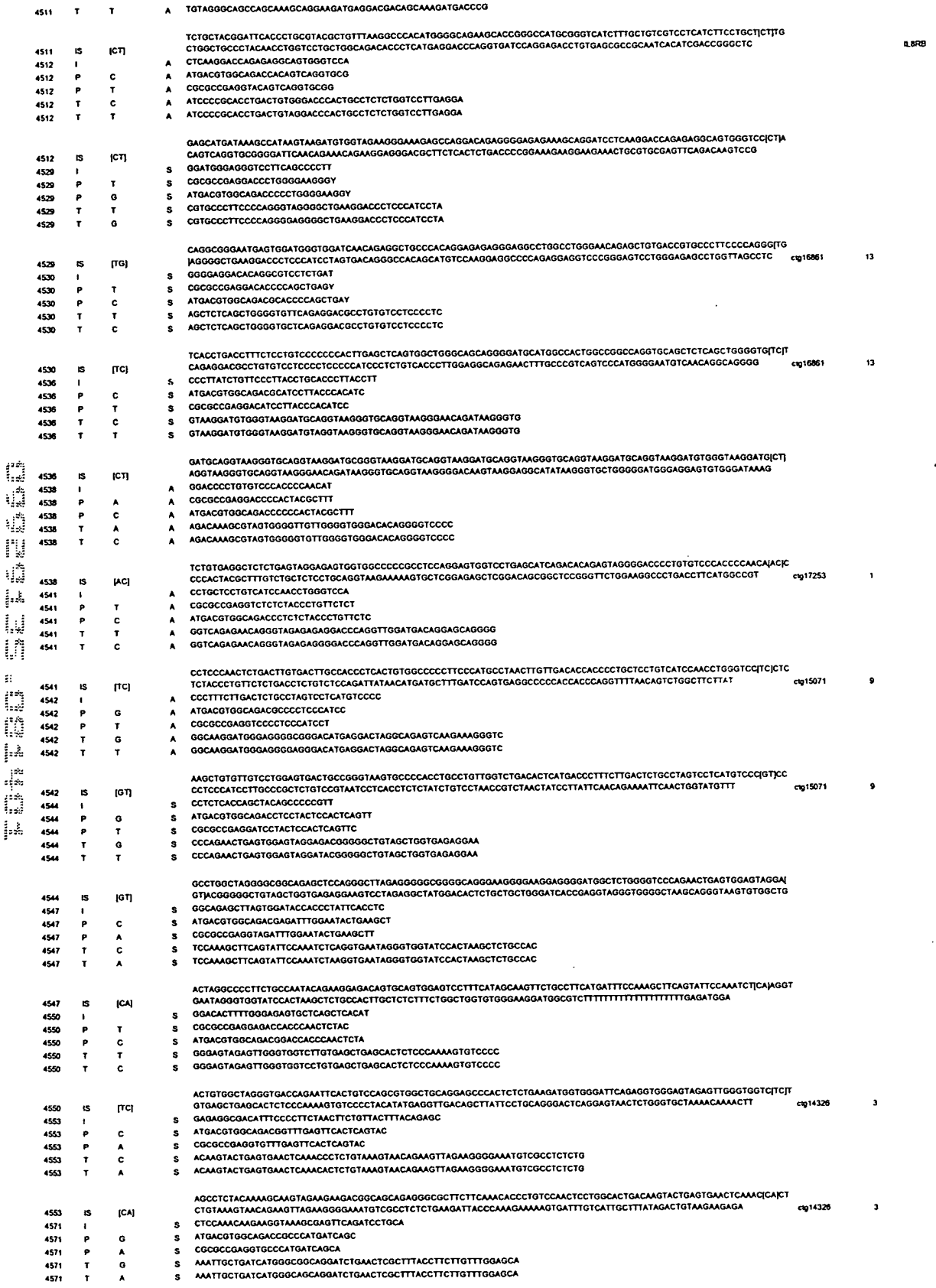

4511 T T A TGTAGGGCAGCCAGCAAAGCAGGAAGATGAGGACGACAGCAAAGATGACCCG
TCTGCTACGGATTCACCCTGCGTACGCTGTTTAAGGCCCACATGGGGCAGAAGCACCGGGCCATGCGGGTCATCTTTGCTGTCGTCCTCATCTTCCTGCT[CT]TG
4511 IS [CT] CTGGCTGCCCTACAACCTGGTCCTGCTGGCAGACACCCTCATGAGGACCCAGGTGATCCAGGAGACCTGTGAGCGCCGCAATCACATCGACCGGGCTC IL8RB
4512 I A CTCAAGGACCAGAGAGGCAGTGGGTCCA
4512 P C A ATGACGTGGCAGACCACAGTCAGGTGCG
4512 P T A CGCGCCGAGGTACAGTCAGGTGCGG
4512 T C A ATCCCCGCACCTGACTGTGGGACCCACTGCCTCTCTGGTCCTTGAGGA
4512 T T A ATCCCCGCACCTGACTGTAGGACCCACTGCCTCTCTGGTCCTTGAGGA
GAGCATGATAAAGCCATAAGTAAGATGTGGTAGAAGGGAAAGAGCCAGGACAGAGGGGAGAGAAAGCAGGATCCTCAAGGACCAGAGAGGCAGTGGGTCC[CT]A
4512 IS [CT] CAGTCAGGTGCGGGGATTCAACAGAAACAGAAGGAGGGACGCTTCTCACTCTGACCCCGGAAAGAAGGAAGAAACTGCGTGCGAGTTCAGACAAGTCCG
4529 I S GGATGGGAGGGTCCTTCAGCCCCTT
4529 P T S CGCGCCGAGGACCCTGGGGAAGGGY
4529 P G S ATGACGTGGCAGACCCCCTGGGGAAGGY
4529 T T S CGTGCCCTTCCCCAGGGTAGGGGCTGAAGGACCCTCCCATCCTA
4529 T G S CGTGCCCTTCCCCAGGGGAGGGGCTGAAGGACCCTCCCATCCTA
CAGGCGGGAATGAGTGGATGGGTGGATCAACAGAGGCTGCCCACAGGAGAGAGGGAGGCCTGGCCTGGGAACAGAGCTGTGACCGTGCCCTTCCCCAGGG[TG
4529 IS [TG] |AGGGGCTGAAGGACCCTCCCATCCTAGTGACAGGGCCACAGCATGTCCAAGGAGGCCCCAGAGGAGGTCCCGGGAGTCCTGGGAGAGCCTGGTTAGCCTC ctg16861 13
4530 I S GGGGAGGACACAGGCGTCCTCTGAT
4530 P T S CGCGCCGAGGACACCCCAGCTGAGY
4530 P C S ATGACGTGGCAGACGCACCCCAGCTGAY
4530 T T S AGCTCTCAGCTGGGGTGTTCAGAGGACGCCTGTGTCCTCCCCTC
4530 T C S AGCTCTCAGCTGGGGTGCTCAGAGGACGCCTGTGTCCTCCCCTC
TCACCTGACCTTTCTCCTGTCCCCCCCACTTGAGCTCAGTGGCTGGGCAGCAGGGGATGCATGGCCACTGGCCGGCCAGGTGCAGCTCTCAGCTGGGGTG[TC]T
4530 IS [TC] CAGAGGACGCCTGTGTCCTCCCCTCCCCCATCCCTCTGTCACCCTTGGAGGCAGAGAACTTTGCCCGTCAGTCCCATGGGGAATGTCAACAGGCAGGGG ctg16861 13
4536 I S CCCTTATCTGTTCCCTTACCTGCACCCTTACCTT
4536 P C S ATGACGTGGCAGACGCATCCTTACCCACATC
4536 P T S CGCGCCGAGGACATCCTTACCCACATCC
4536 T C S GTAAGGATGTGGGTAAGGATGCAGGTAAGGGTGCAGGTAAGGGAACAGATAAGGGTG
4536 T T S GTAAGGATGTGGGTAAGGATGTAGGTAAGGGTGCAGGTAAGGGAACAGATAAGGGTG
GATGCAGGTAAGGGTGCAGGTAAGGATGCGGGTAAGGATGCAGGTAAGGATGCAGGTAAGGGTGCAGGTAAGGATGCAGGTAAGGATGTGGGTAAGGATG[CT]
4536 IS [CT] AGGTAAGGGTGCAGGTAAGGGAACAGATAAGGGTGCAGGTAAGGGGACAAGTAAGGAGGCATATAAGGGTGCTGGGGGATGGGAGGAGTGTGGGATAAAG
4538 I A GGACCCCTGTGTCCCACCCCAACAT
4538 P A A CGCGCCGAGGACCCCACTACGCTTT
4538 P C A ATGACGTGGCAGACCCCCCACTACGCTTT
4538 T A A AGACAAAGCGTAGTGGGGTTGTTGGGGTGGGACACAGGGGTCCCC
4538 T C A AGACAAAGCGTAGTGGGGGTGTTGGGGTGGGACACAGGGGTCCCC
TCTGTGAGGCTCTCTGAGTAGGAGAGTGGTGGCCCCCGCCTCCAGGAGTGGTCCTGAGCATCAGACACAGAGTAGGGGACCCCTGTGTCCCACCCCAACA[AC]C
4538 IS [AC] CCCACTACGCTTTGTCTGCTCTCCTGCAGGTAAGAAAAAGTGCTCGGAGAGCTCGGACAGCGGCTCCGGGTTCTGGAAGGCCCTGACCTTCATGGCCGT ctg17253 1
4541 I A CCTGCTCCTGTCATCCAACCTGGGTCCA
4541 P T A CGCGCCGAGGTCTCTCTACCCTGTTCTCT
4541 P C A ATGACGTGGCAGACCCTCTCTACCCTGTTCTC
4541 T T A GGTCAGAGAACAGGGTAGAGAGAGGACCCAGGTTGGATGACAGGAGCAGGGG
4541 T C A GGTCAGAGAACAGGGTAGAGAGGGGACCCAGGTTGGATGACAGGAGCAGGGG
CCTCCCAACTCTGACTTGTGACTTGCCACCCTCACTGTGGCCCCCTTCCCATGCCTAACTTGTTGACACCACCCCTGCTCCTGTCATCCAACCTGGGTCC[TC]CTC
4541 IS [TC] TCTACCCTGTTCTCTGACCTCTGTCTCCAGATTATAACATGATGCTTTGATCCAGTGAGGCCCCCACCACCCAGGTTTTAACAGTCTGGCTTCTTAT ctg15071 9
4542 I A CCCTTTCTTGACTCTGCCTAGTCCTCATGTCCCC
4542 P G A ATGACGTGGCAGACGCCCCTCCCATCC
4542 P T A CGCGCCGAGGTCCCCTCCCATCCT
4542 T G A GGCAAGGATGGGAGGGGCGGGACATGAGGACTAGGCAGAGTCAAGAAAGGGTC
4542 T T A GGCAAGGATGGGAGGGGAGGGACATGAGGACTAGGCAGAGTCAAGAAAGGGTC
AAGCTGTGTTGTCCTGGAGTGACTGCCGGGTAAGTGCCCCACCTGCCTGTTGGTCTGACACTCATGACCCTTTCTTGACTCTGCCTAGTCCTCATGTCCC[GT]CC
4542 IS [GT] CCTCCCATCCTTGCCCGCTCTGTCCGTAATCCTCACCTCTCTATCTGTCCTAACCGTCTAACTATCCTTATTCAACAGAAAATTCAACTGGTATGTTT ctg15071 9
4544 I S CCTCTCACCAGCTACAGCCCCCGTT
4544 P G S ATGACGTGGCAGACCTCCTACTCCACTCAGTT
4544 P T S CGCGCCGAGGATCCTACTCCACTCAGTTC
4544 T G S CCCAGAACTGAGTGGAGTAGGAGACGGGGGCTGTAGCTGGTGAGAGGAA
4544 T T S CCCAGAACTGAGTGGAGTAGGATACGGGGGCTGTAGCTGGTGAGAGGAA
GCCTGGCTAGGGGCGGCAGAGCTCCAGGGCTTAGAGGGGGCGGGGCAGGGAAGGGGAAGGAGGGGATGGCTCTGGGGTCCCAGAACTGAGTGGAGTAGGA[
4544 IS [GT] GT]ACGGGGGCTGTAGCTGGTGAGAGGAAGTCCTAGAGGCTATGGACACTCTGCTGCTGGGATCACCGAGGTAGGGTGGGGCTAAGCAGGGTAAGTGTGGCTG
4547 I S GGCAGAGCTTAGTGGATACCACCCTATTCACCTC
4547 P C S ATGACGTGGCAGACGAGATTTGGAATACTGAAGCT
4547 P A S CGCGCCGAGGTAGATTTGGAATACTGAAGCTT
4547 T C S TCCAAAGCTTCAGTATTCCAAATCTCAGGTGAATAGGGTGGTATCCACTAAGCTCTGCCAC
4547 T A S TCCAAAGCTTCAGTATTCCAAATCTAAGGTGAATAGGGTGGTATCCACTAAGCTCTGCCAC
ACTAGGCCCCTTCTGCCAATACAGAAGGAGACAGTGCAGTGGAGTCCTTTCATAGCAAGTTCTGCCTTCATGATTTCCAAAGCTTCAGTATTCCAAATCT[CA]AGGT
4547 IS [CA] GAATAGGGTGGTATCCACTAAGCTCTGCCACTTGCTCTCTTTCTGGCTGGTGTGGGAAGGATGGCGTCTTTTTTTTTTTTTTTTTTTGAGATGGA
4550 I S GGACACTTTTGGGAGAGTGCTCAGCTCACAT
4550 P T S CGCGCCGAGGAGACCACCCAACTCTAC
4550 P C S ATGACGTGGCAGACGGACCACCCAACTCTA
4550 T T S GGGAGTAGAGTTGGGTGGTCTTGTGAGCTGAGCACTCTCCCAAAAGTGTCCCC
4550 T C S GGGAGTAGAGTTGGGTGGTCCTGTGAGCTGAGCACTCTCCCAAAAGTGTCCCC
ACTGTGGCTAGGGTGACCAGAATTCACTGTCCAGCGTGGCTGCAGGAGCCCACTCTCTGAAGATGGTGGGATTCAGAGGTGGGAGTAGAGTTGGGTGGTC[TC]T
4550 IS [TC] GTGAGCTGAGCACTCTCCCAAAAGTGTCCCCTACATATGAGGTTGACAGCTTATTCCTGCAGGGACTCAGGAGTAACTCTGGGTGCTAAAACAAAACTT ctg14326 3
4553 I S GAGAGGCGACATTTCCCCTTCTAACTTCTGTTACTTTACAGAGC
4553 P C S ATGACGTGGCAGACGGTTTGAGTTCACTCAGTAC
4553 P A S CGCGCCGAGGTGTTTGAGTTCACTCAGTAC
4553 T C S ACAAGTACTGAGTGAACTCAAACCCTCTGTAAAGTAACAGAAGTTAGAAGGGGAAATGTCGCCTCTCTG
4553 T A S ACAAGTACTGAGTGAACTCAAACACTCTGTAAAGTAACAGAAGTTAGAAGGGGAAATGTCGCCTCTCTG
AGCCTCTACAAAAGCAAGTAGAAGAAGACGGCAGCAGAGGGCGCTTCTTCAAACACCCTGTCCAACTCCTGGCACTGACAAGTACTGAGTGAACTCAAAC[CA]CT
4553 IS [CA] CTGTAAAGTAACAGAAGTTAGAAGGGGAAATGTCGCCTCTCTGAAGATTACCCAAAGAAAAAGTGATTTGTCATTGCTTTATAGACTGTAAGAAGAGA ctg14326 3
4571 I S CTCCAAACAAGAAGGTAAAGCGAGTTCAGATCCTGCA
4571 P G S ATGACGTGGCAGACCGCCCATGATCAGC
4571 P A S CGCGCCGAGGTGCCCATGATCAGCA
4571 T G S AAATTGCTGATCATGGGCGGCAGGATCTGAACTCGCTTTACCTTCTTGTTTGGAGCA
4571 T A S AAATTGCTGATCATGGGCAGCAGGATCTGAACTCGCTTTACCTTCTTGTTTGGAGCA

FIGURE 129B

				GAGCTCACTACACAGGTTCCTGGCTATCGAGTCTGAATCTGCACTACTCAACTTATAAACTGTCTGCAGACACCTGTTAGGGAAATTGCTGATCATGGGC[GA]GCA			
4571	IS	[GA]		GGATCTGAACTCGCTTTACCTTCTTGTTTGGAGCACAGGGACCGCCCAGCTAGAGGAGCACCAGCGCACTGCGCCCCAGCCCTGGGCGAGGGTGCGG	ctg16306	4	NPY2R
4574	I		S	GGACGTGGACGTGCAGACTGCATCCT			
4574	P	T	S	CGCGCCGAGGATGCTTGCATTCCCAG			
4574	P	G	S	ATGACGTGGCAGACCTGCTTGCATTCCCAG			
4574	T	T	S	ATCCCTGGGAATGCAAGCATGGATGCAGTCTGCACGTCCACGTCCCC			
4574	T	G	S	ATCCCTGGGAATGCAAGCAGGGATGCAGTCTGCACGTCCACGTCCCC			
				TGAGCCCAGCCACCCCAGCCACTCTGTCCCCTGCTGCCTCCTGAGCAAGCCTCCTCCTCCTCCAGCTGTAACGTGGTGGCCATCCCTGGGAATGCAAGCA[TG]G			
4574	IS	[TG]		GATGCAGTCTGCACGTCCACGTCCCCCACCCGGAGTATGGCCCCAGGGGCAGTACACTTACCCCAGCCAGTGTCCACACGATCCCAACACACGCAGCCA	ctg13980	1	
4575	I		A	CCAGCCACTCTGTCCCCTGCTGCA			
4575	P	C	A	ATGACGTGGCAGACCTCCTGACCAAGCCT			
4575	P	T	A	CGCGCCGAGGTTCCTGACCAAGCCTC			
4575	T	C	A	GGAGGAGGCTTGGTCAGGAGGCAGCAGGGGACAGAGTGGCTGGGG			
4575	T	T	A	GGAGGAGGCTTGGTCAGGAAGCAGCAGGGGACAGAGTGGCTGGGG			
				CTCCTATCCTGCCTGCTGGGGCCCGTGAATGAGCCCAGCCACCCCAGCCACTCTGTCCCCTGCTGC[CT]TCCTGACCAAGCCTCCTCCTCCTCCAGCTGTAACGT			
4575	IS	[CT]		GGTGGCCATCCCTGGGAATGCAAGCATGGATGCAGTCTGCACGTCCACGTCCCCCACCCGGAGT	ctg13980	1	
4585	I		A	AGGCAGCCAATGATCTCAGAGGCTGTATACCCT			
4585	P	A	A	CGCGCCGAGGACCCAGAGTTATTTTATGCAT			
4585	P	C	A	ATGACGTGGCAGACCCCCAGAGTTATTTTATGCA			
4585	T	A	A	TGATATGCATAAAATAACTCTGGGTGGGTATACAGCCTCTGAGATCATTGGCTGCCTCC			
4585	T	C	A	TGATATGCATAAAATAACTCTGGGGGGGTATACAGCCTCTGAGATCATTGGCTGCCTCC			
				CAGAATTGAAATGCCACAGACATTCCCCCTGCTCCGCCCCTTTCCCCCGGATACCCAGTTTCTCCCGGAGGCAGCCAATGATCTCAGAGGCTGTATACCC[AC]CC			
4585	IS	[AC]		CAGAGTTATTTTATGCATATCAAGGAAAGTCTACATAGAGGACTGTTTCTGGGGTACCCAGATGCAGCGTCAAATGCCATGGAATACTACAGTGAGGA	ctg15972	16	
4863	I		A	GAGATCACCTTCAGAGCAAAGAAAACGCATAATCTCT			
4863	P	C	A	CGCGCCGAGGCCCAAACATCATGACTTATCT			
4863	P	G	A	ATGACGTGGCAGACGCCAAACATCATGACTTATC			
4863	T	C	A	AGTCAGATAAGTCATGATGTTTGGGGAGATTATGCGTTTTCTTTGCTCTGAAGGTGATCTCAA			
4863	T	G	A	AGTCAGATAAGTCATGATGTTTGGCGAGATTATGCGTTTTCTTTGCTCTGAAGGTGATCTCAA			
				TGTAGATGGGCCAGCAGAATATTTGAGATCACCTTCAGAGCAAAGAAAACGCATAATCTC[CG]CCAAACATCATGACTTATCTGACTGGTTAAAATGAGTATCACTG			
4863	IS	[CG]		TCTTTCCTCCGTCATC	ctg15907	6	
4909	I		S	GGTGACCAGCAAGAACGACCATCCTAATACATCCTAGT			
4909	P	C	S	ATGACGTGGCAGACGAAGGAATGTGCCAAAGC			
4909	P	T	S	CGCGCCGAGGAAAGGAATGTGCCAAAGC			
4909	T	C	S	CGTGGCTTTGGCACATTCCTTCCTAGGATGTATTAGGATGGTCGTTCTTGCTGGTCACCCC			
4909	T	T	S	CGTGGCTTTGGCACATTCCTTTCTAGGATGTATTAGGATGGTCGTTCTTGCTGGTCACCCC			
				CTGAGCTCAGTTTGCGAGGGTGCAGGGAAGCACTTCCACCGTGGCTTTGGCACATTCCTT[CT]CTAGGATGTATTAGGATGGTCGTTCTTGCTGGTCACCCCCGC			
4909	IS	[CT]		ACTGCCTCGGTCTCTCCT	ctg22fin6	22	
4910	I		S	GGGCTCCAGTTCTAGCTCTGCTACAAACTCACTA			
4910	P	G	S	ATGACGTGGCAGACCCTGCACAAATGGCTT			
4910	P	A	S	CGCGCCGAGGTCTGCACAAATGGCTTC			
4910	T	G	S	TGTTGAAGCCATTTGTGCAGGAGTGAGTTTGTAGCAGAGCTAGAACTGGAGCCCGG			
4910	T	A	S	TGTTGAAGCCATTTGTGCAGAAGTGAGTTTGTAGCAGAGCTAGAACTGGAGCCCGG			
				AATCACTTAATTTTACTTACAGAAAAACCTAGGCTCAAAGTGTTGAAGCCATTTGTGCAG[GA]AGTGAGTTTGTAGCAGAGCTAGAACTGGAGCCCGGATTTCCTTT			
4910	IS	[GA]		GCTGCTATATTTTCCC	ctg15907	6	
4913	I		S	ATGACACTTTGATTCTTTTCTAAATGTCCGCTCCCCAAAATGATTTTA			
4913	P	G	S	ATGACGTGGCAGACCGATTTCTCAGGGAAAGTG			
4913	P	A	S	CGCGCCGAGGTGATTTCTCAGGGAAAGTG			
4913	T	G	S	TTACCACTTTCCCTGAGAAATCGAAAATCATTTTGGGGAGCGGACATTTAGAAAAAGAATCAAAGTGTCATGG			
4913	T	A	S	TTACCACTTTCCCTGAGAAATCAAAAATCATTTTGGGGAGCGGACATTTAGAAAAAGAATCAAAGTGTCATGG			
				GGGTTATATACAGCCTTTGCCTCTCTGAGTCAATGTATTTACCACTTTCCCTGAGAAATC[GA]AAAATCATTTTGGGGAGCGGACATTTAGAAAAAGAATCAAAGTG			
4913	IS	[GA]		TCATGGATATCAAATT			
4915	I		S	AGAACAGCAGCTTGGTAGCCAGCATGCTTT			
4915	P	C	S	ATGACGTGGCAGACGTCTTCAGATCCCTACTCTA			
4915	P	T	S	CGCGCCGAGGATCTTCAGATCCCTACTCTAC			
4915	T	C	S	AGGGGTAGAGTAGGGATCTGAAGACAAGCATGCTGGCTACCAAGCTGCTGTTCTTG			
4915	T	T	S	AGGGGTAGAGTAGGGATCTGAAGATAAGCATGCTGGCTACCAAGCTGCTGTTCTTG			
				AGAGAGGTTAAGATGTGGGTCCACACACAACTGGACAGGGGTAGAGTAGGGATCTGAAGA[CT]AAGCATGCTGGCTACCAAGCTGCTGTTCTTGGAAATGAGATA			
4915	IS	[CT]		GCCAGGACTGGGGTCACC	ctg16920	19	
4941	I		A	GCAGTCCTACCACACACTAGGCCCTGTGAC			
4941	P	T	A	CGCGCCGAGGTAAGTGCTTTCTCTGTATCATC			
4941	P	A	A	ATGACGTGGCAGACAAAGTGCTTTCTCTGTATCAT			
4941	T	T	A	GGAAGATGATACAGAGAAAGCACTTATCACAGGGCCTAGTGTGTGGTAGGACTGCTA			
4941	T	A	A	GGAAGATGATACAGAGAAAGCACTTTTCACAGGGCCTAGTGTGTGGTAGGACTGCTA			
				TCCCAGTCTGCCCATTGGCATGTTGTCCATAGCAGTCCTACCACACACTAGGCCCTGTGA[TA]AAGTGCTTTCTCTGTATCATCTTCCAAATAGCCTAGTGAAATGG			
4941	IS	[TA]		ACAATTGTAGTCTCAT			
4949	I		A	CCCATCTCTTATCCCTGATGTCACTACTGAGCTGGGT			
4949	P	A	A	CGCGCCGAGGAATCACAGGAGACTAGAGC			
4949	P	G	A	ATGACGTGGCAGACGATCACAGGAGACTAGAGC			
4949	T	A	A	AGGTGCTCTAGTCTCCTGTGATTCCCAGCTCAGTAGTGACATCAGGGATAAGAGATGGGAA			
4949	T	G	A	AGGTGCTCTAGTCTCCTGTGATCCCCAGCTCAGTAGTGACATCAGGGATAAGAGATGGGAA			
				AGAGCTCATTCTGACCCATCCCTTCCCATCTCTTATCCCTGATGTCACTACTGAGCTGGG[AG]ATCACAGGAGACTAGAGCACCTCTTCCTCCATGGCAAGTGCAT			
4949	IS	[AG]		CAGAAGAATCCTGATCT	ctg15907	6	
4963	I		S	CCTGGCCTGGACAGCAGGGCTCT			
4963	P	C	S	ATGACGTGGCAGACGGGCTTCGAGTGAGTA			
4963	P	T	S	CGCGCCGAGGAGGCTTCGAGTGAGTAAA			
4963	T	C	S	CCCTTTTACTCACTCGAAGCCCGAGCCCTGCTGTCCAGGCCAGGTG			
4963	T	T	S	CCCTTTTACTCACTCGAAGCCTGAGCCCTGCTGTCCAGGCCAGGTG			
				CAGCAAAGTCCACTCCTGGTTTTGATGTTTTCTATTCATCCCTTTTACTCACTCGAAGCC[CT]GAGCCCTGCTGTCCAGGCCAGGTGCTGGGCTGGCTCTGGGGA			
4963	IS	[CT]		CCAGCGAAGTCCTAGTAG	ctg15330	9	
4964	I		A	GGCTGGCTCTGGGGACCAGCGC			
4964	P	T	A	CGCGCCGAGGTAGTCCTAGTAGGCCAG			
4964	P	A	A	ATGACGTGGCAGACAAGTCCTAGTAGGCCAG			
4964	T	T	A	AGGGCTGGCCTACTAGGACTACGCTGGTCCCCAGAGCCAGCCCA			
4964	T	A	A	AGGGCTGGCCTACTAGGACTTCGCTGGTCCCCAGAGCCAGCCCA			
				CACTCGAAGCCCGAGCCCTGCTGTCCAGGCCAGGTGCTGGGCTGGCTCTGGGGACCAGCG[TA]AGTCCTAGTAGGCCAGCCCTATCTGCGTGGAGCCACGGTT			
4964	IS	[TA]		GGGTGTGCATCATGCAGCCC	ctg15330	9	
4981	I		A	GCCTCTGTCCCCACCCAATTTAATCATTCACCCTAT			
4981	P	G	A	ATGACGTGGCAGACGTGTAGCAACCAGAGC			
4981	P	A	A	CGCGCCGAGGATGTAGCAACCAGAGCC			
4981	T	G	A	CAGGGGCTCTGGTTGCTACACTAGGGTGAATGATTAAATTGGGTGGGGACAGAGGCGG			
4981	T	A	A	CAGGGGCTCTGGTTGCTACATTAGGGTGAATGATTAAATTGGGTGGGGACAGAGGCGG			
				CTGGGAGTCATCCAGGCCTCTCCCCGCCTCTGTCCCCACCCAATTTAATCATTCACCCTA[GA]TGTAGCAACCAGAGCCCCTGGCTGCAGGCTCTGATATTTTTTA			
4981	IS	[GA]		GCTATCTCTTCCCCTCA	ctg15330	9	
5838	I		S	GCTTAGCCCGTAGTCTGCAGAAACTAGGTTTTCAGGTAAA			
5838	P	G	S	ATGACGTGGCAGACCGTTTTCAAATAGTATCTAAACTACA			
5838	P	A	S	CGCGCCGAGGTGTTTTCAAATAGTATCTAAACTACAA			

FIGURE 129B

5838	T	G	S	ATATTTGTAGTTTAGATACTATTTGAAAACGTTACCTGAAAACCTAGTTTCTGCAGACTACGGGCTAAGCGT			
5838	T	A	S	ATATTTGTAGTTTAGATACTATTTGAAAACATTACCTGAAAACCTAGTTTCTGCAGACTACGGGCTAAGCGT			
5838	IS	[GA]		ATTTTTAATTCTATAAAAATAAGTCCTTGAATATTTGTAGTTTAGATACTATTTGAAAAC[GA]TTACCTGAAAACCTAGTTTCTGCAGACTACGGGCTAAGCGTCTGG CACCAAATTTAGCTT	ctg12559	6	
5840	I		A	TCCCATCATTTGCTTAGGTCTGATCAATCTGCTCCACT			
5840	P	G	A	ATGACGTGGCAGACGCAATTTCTCAGTGATCCT			
5840	P	A	A	CGCGCCGAGGACAATTTCTCAGTGATCCTC			
5840	T	G	A	TGCAGAGGATCACTGAGAAATTGCGTGGAGCAGATTGATCAGACCTAAGCAAATGATGGGAGT			
5840	T	A	A	TGCAGAGGATCACTGAGAAATTGTGTGGAGCAGATTGATCAGACCTAAGCAAATGATGGGAGT			
5840	IS	[GA]		TCTAGAACCTTCACAGGCCACACTCCCATCATTTGCTTAGGTCTGATCAATCTGCTCCAC[GA]CAATTTCTCAGTGATCCTCTGCATCTCTGCCTACAAGGGCCTCC CTGACACCCAAGTTCA	ctg15907	6	
5954	I		S	GAACTGGGTCCTCAACCAGTGAACCTAGATATATACATGAGGAAATAAGC			
5954	P	T	S	CGCGCCGAGGAAACTCCTAAAGTGGGTATG			
5954	P	A	S	ATGACGTGGCAGACTAACTCCTAAAGTGGGTATGT			
5954	T	T	S	ACCAACATACCCACTTTAGGAGTTTCTTATTTCCTCATGTATATATCTAGGTTCACTGGTTGAGGACCCAGTTCCC			
5954	T	A	S	ACCAACATACCCACTTTAGGAGTTACTTATTTCCTCATGTATATATCTAGGTTCACTGGTTGAGGACCCAGTTCCC			
5954	IS	[TA]		GATTTTTTTGTTTGATTGTCCCCCACCCCCACCCCCACCAACATACCCACTTTAGGAGTT[TA]CTTATTTCCTCATGTATATATCTAGGTTCACTGGTTGAGGACCCA GTTCCCATCTTTGGA			
5957	I		S	AGGCGACAGAGTGAGACTCTCATCTAACAAAGAAAAAGCAT			
5957	P	C	S	ATGACGTGGCAGACGTGGGGACAAACCAC			
5957	P	G	S	CGCGCCGAGGCTGGGGACAAACCACA			
5957	T	C	S	CTTCTGTGGTTTGTCCCCACTGCTTTTTCTTTGTTAGATGAGAGTCTCACTCTGTCGCCTAG			
5957	T	G	S	CTTCTGTGGTTTGTCCCCAGTGCTTTTTCTTTGTTAGATGAGAGTCTCACTCTGTCGCCTAG			
5957	IS	[CG]		TGGTGGGAAGGGCCCCGTGAGCCCTCTGCAAGGCTTCTTTCCTTCTGTGGTTTGTCCCCA[CG]TGCTTTTTCTTTGTTAGATGAGAGTCTCACTCTGTCGCCTAG CCTGGAGTGCGGTAGCTC	ctg22fin3	22	
5960	I		S	TGGAAGGATTGCATGAGCCCAGGAATTCAAGACTAGC			
5960	P	A	S	CGCGCCGAGGTCTGGGCAACATGGC			
5960	P	C	S	ATGACGTGGCAGACGCTGGGCAACATGGY			
5960	T	A	S	TCTTGCCATGTTGCCCAGACTAGTCTTGAATTCCTGGGCTCATGCAATCCTTCCATC			
5960	T	C	S	TCTTGCCATGTTGCCCAGCCTAGTCTTGAATTCCTGGGCTCATGCAATCCTTCCATC			
5960	IS	[AC]		ATGTGACATCACACCTGACTAATTTTTTTGGTATAGACAGGGTCTTGCCATGTTGCCCAG[AC]CTAGTCTTGAATTCCTGGGCTCATGCAATCCTTCCATCTTGGTC TCTCAAAGTGTTGCGG	ctg22fin4	22	
5964	I		S	GAACCAAAAACAACTTCAGAAGAAACTCTTGAAGACTGCTCAGAT			
5964	P	T	S	CGCGCCGAGGAGTAACACCTGCCATG			
5964	P	C	S	ATGACGTGGCAGACGGTAACACCTGCCATG			
5964	T	T	S	TTTGCATGGCAGGTGTTACTTCTGAGCAGTCTTCAAGAGTTTCTTCTGAAGTTGTTTTTGGTTCCT			
5964	T	C	S	TTTGCATGGCAGGTGTTACCTCTGAGCAGTCTTCAAGAGTTTCTTCTGAAGTTGTTTTTGGTTCCT			
5964	IS	[TC]		TTCAAATACATCACCATTGGCCTCTTCTTTAGTTCTGGGGATTTGCATGGCAGGTGTTAC[TC]TCTGAGCAGTCTTCAAGAGTTTCTTCTGAAGTTGTTTTTGGTTC CTCTAATAAATCTTCT	ctg13980	1	MULTIPLE SHORT GENE NAMES
5968	I		A	CCAACACTGGGGCTCAAGCAATCTACCCACT			
5968	P	C	A	CGCGCCGAGGCTCAGCCTCCCCAAG			
5968	P	G	A	ATGACGTGGCAGACGTCAGCCTCCCCAA			
5968	T	C	A	AGCACTTGGGGAGGCTGAGGTGGGTAGATTGCTTGAGCCCCAGTGTTGGAG			
5968	T	G	A	AGCACTTGGGGAGGCTGACGTGGGTAGATTGCTTGAGCCCCAGTGTTGGAG			
5968	IS	[CG]		TGGAGTTTCATCATGTTGCCAGGCTGGTCTCCAACACTGGGGCTCAAGCAATCTACCCAC[CG]TCAGCCTCCCCAAGTGCTGGGATTACAGGCGTGAGCCACCAC GCCCACCTGGCCTTTGCT	ctg15665	20	
5969	I		S	TGGAAGGGCACCACCAACGGGCC			
5969	P	T	S	CGCGCCGAGGATAGACATAGGTTGGTGTAAAAA			
5969	P	A	S	ATGACGTGGCAGACTTAGACATAGGTTGGTGTAAAAA			
5969	T	T	S	CCAATTTTTACACCAACCTATGTCTATGCCCGTTGGTGGTGCCCTTCCACA			
5969	T	A	S	CCAATTTTTACACCAACCTATGTCTAAGCCCGTTGGTGGTGCCCTTCCACA			
5969	IS	[TA]		CCATGACTATGGGAGGTTAATTGTATTAAAGTCTCCAATTTTTACACCAACCTATGTCTA[TA]GCCCGTTGGTGGTGCCCTTCCACACTGACTCTGGACCAGACCAT GTGATTTGCTTTGGTT	ctg16537	20	
5972	I		A	GAAGTGTTACCTTCAGCATGCTGAGTTTTCTTATTCTTTTAAACAACGCT			
5972	P	G	A	ATGACGTGGCAGACGTTTCTGTTATCAGGCATCA			
5972	P	A	A	CGCGCCGAGGATTTCTGTTATCAGGCATCAT			
5972	T	G	A	ATGCATGATGCCTGATAACAGAAACGCGTTGTTTAAAAGAATAAGAAAACTCAGCATGCTGAAGGTAACACTTCAC			
5972	T	A	A	ATGCATGATGCCTGATAACAGAAATGCGTTGTTTAAAAGAATAAGAAAACTCAGCATGCTGAAGGTAACACTTCAC			
5972	IS	[GA]		GCAGAGCTTGTGAAGTGTTACCTTCAGCATGCTGAGTTTTCTTATTCTTTTAAACAACGC[GA]TTTCTGTTATCAGGCATCATGCATTAGTAAAGAGAGGAGGGCTG ATGTCAGGGCTCGGGG	ctg22fin4	22	
5974	I		A	GACACAGTTCAGCACAGTGCCTGCCACT			
5974	P	A	A	CGCGCCGAGGATTGCAGGTGTTTGATAAATG			
5974	P	G	A	ATGACGTGGCAGACGTTGCAGGTGTTTGATAAAT			
5974	T	A	A	TTCACATTTATCAAACACCTGCAATGTGGCAGGCACTGTGCTGAACTGTGTCTA			
5974	T	G	A	TTCACATTTATCAAACACCTGCAACGTGGCAGGCACTGTGCTGAACTGTGTCTA			
5974	IS	[AG]		AGGGGGAATCTTGAAGCTTAAATAATCTACATAGACACAGTTCAGCACAGTGCCTGCCAC[AG]TTGCAGGTGTTTGATAAATGTGAAGAAGTCCTTTCTCCTCACG GAGGTTATGGGATTTGC	ctg15665	20	
5976	I		S	CAACAGTACAAGTTATGAGACCCCTACCTCAAACTT			
5976	P	C	S	ATGACGTGGCAGACGTATGTATCTTAAAAGATCCTTCTTTT			
5976	P	T	S	CGCGCCGAGGATATGTATCTTAAAAGATCCTTCTTTT			
5976	T	C	S	GCTCAAAAGAAGGATCTTTTAAGATACATACAGTTTGAGGTAGGGGTCTCATAACTTGTACTGTTGAA			
5976	T	T	S	GCTCAAAAGAAGGATCTTTTAAGATACATATAGTTTGAGGTAGGGGTCTCATAACTTGTACTGTTGAA			
5976	IS	[CT]		AGCAAGCTCCAGGAATATATAAAGACATATGCTCAAAAGAAGGATCTTTTAAGATACATA[CT]AGTTTGAGGTAGGGGTCTCATAACTTGTACTGTTGAAATTAAGAT ATGTGTGGGTTAGAG	ctg13446	1	
5978	I		A	CTTTGGTGACAGACGGTGCTGGGCTC			
5978	P	T	A	CGCGCCGAGGTCCTTCCTGTTTTCCCA			
5978	P	G	A	ATGACGTGGCAGACGCCTTCCTGTTTTCCC			
5978	T	T	A	TTGGTGGGAAAACAGGAAGGAAGCCCAGCACCGTCTGTCACCAAAGCG			
5978	T	G	A	TTGGTGGGAAAACAGGAAGGCAGCCCAGCACCGTCTGTCACCAAAGCG			
5978	IS	[TG]		AAAATGAGCTCTCCTGCCCCTGCACCCCCGCCTCGCTTTGGTGACAGACGGTGCTGGGCT[TG]CCTTCCTGTTTTCCCACCAAGGCTCCTCTGTGCCCCCCACTG CTTCTGTCTCCTCCTCCC	ctg13516	6	
5981	I		S	CCCCACAAGCACCCACCCTGCCT			
5981	P	T	S	CGCGCCGAGGATATCCCCCTGGCC			
5981	P	C	S	ATGACGTGGCAGACGTATCCCCCTGGCC			
5981	T	T	S	GATGGGCCAGGGGGATATGGCAGGGTGGGTGCTTGTGGGGTC			
5981	T	C	S	GATGGGCCAGGGGGATACGGCAGGGTGGGTGCTTGTGGGGTC			
5981	IS	[TC]		GGCACTAGCTGTGTAGGTGGCAGCTGCAGAGCCAGGGGCAGTGGATGGGCCAGGGGGATA[TC]GGCAGGGTGGGTGCTTGTGGGGTCAAGGTAGAAGTGGTG AGTAATGGCCCCCCAAGGTTG	ctg22fin4	22	
5988	I		A	AAAACAATCGACCAGCCTTAGGAGGTGCC			
5988	P	A	A	CGCGCCGAGGAGATGATGCTCAGACACT			
5988	P	T	A	ATGACGTGGCAGACTGATGATGCTCAGACACT			
5988	T	A	A	GACCAGTGTCTGAGCATCATCTGCACCTCCTAAGGCTGGTCGATTGTTTTTT			
5988	T	T	A	GACCAGTGTCTGAGCATCATCAGCACCTCCTAAGGCTGGTCGATTGTTTTTT			
5988	IS	[AT]		CAAGAGCGAGACTGCATCTCAAAAAAGAAAAAAAAACAATCGACCAGCCTTAGGAGGTGC[AT]GATGATGCTCAGACACTGGTCTCCTTCCAAGGGTTAGGCACAG AGAGCGCTTCCAGTGTC			
5991	I		A	TGTTAAGTCCGGGATGTGTGGGAGCTTTTTAAGGAT			
5991	P	C	A	CGCGCCGAGGCTGATCATTGGCTCTGAG			
5991	P	G	A	ATGACGTGGCAGACGTGATCATTGGCTCTGAG			
5991	T	C	A	TGTCCTCAGAGCCAATGATCAGTCCTTAAAAAGCTCCCACACATCCCGGACTTAACAGA			

FIGURE 129B

5991	T	G	A	TGTCCTCAGAGCCAATGATCACTCCTTAAAAAGCTCCCACACATCCCGGACTTAACAGA			
5991	IS	[CG]		GGAGTCCCAGCCAGTTCTGGGAGTCTGTTAAGTCCGGGATGTGTGGGAGCTTTTTAAGGA[CG]TGATCATTGGCTCTGAGGACACTTCAACTAGTTAGCCTTCTA TCTTGAGGTATATAAACT	ctg15478	1	
4836	I		S	GCTACGTGGATGACCAGCTGTTCGTGTTCTATGATT			
4836	P	G	S	CGCGCCGAGGCATGAGAGTCGCCGT			
4836	P	C	S	ATGACGTGGCAGACGATGAGAGTCGCCGT			
4836	T	G	S	CCACACGGCGACTCTCATGATCATAGAACACGAACAGCTGGTCATCCACGTAGCCC			
4836	T	C	S	CCACACGGCGACTCTCATCATCATAGAACACGAACAGCTGGTCATCCACGTAGCCC			
4836	IS	[GC]		TCTGGCTTGAAATTCTACTGGAAACCCATGGAGTTCGGGGCTCCACACGGCGACTCTCAT[GC]ATCATAGAACACGAACAGCTGGTCATCCACGTAGCCCAAAGC TTCAAACAAGGAAAGACC	ctg15907	6	HFE
4837	I		A	CAGGAAGGTGAGGCCCCCTCTCCACT			
4837	P	G	A	ATGACGTGGCAGACGTACCCTTGCTGTGGTY			
4837	P	A	A	CGCGCCGAGGATACCCTTGCTGTGGTY			
4837	T	G	A	CACAACCACAGCAAGGGTACGTGGAGAGGGGGCCTCACCTTCCTGAG			
4837	T	A	A	CACAACCACAGCAAGGGTATGTGGAGAGGGGGCCTCACCTTCCTGAG			
4837	IS	[GA]		AAGATGCATGAAAAGATGAAAAGCTCTGACAACCTCAGGAAGGTGAGGCCCCCTCTCCAC[GA]TACCCTTGCTGTGGTTGTGATTTTCCATAATAGTCCAGAAGTC AACAGTGAACATGTGAT	ctg15907	6	
4840	I		A	GGTATCCCTGGAGTCGCAGGTGTCCCTT			
4840	P	G	A	ATGACGTGGCAGACGGTGTCGGAGGTGTT			
4840	P	A	A	CGCGCCGAGGAGTGTCGGAGGTGTTC			
4840	T	G	A	CCGGGAACACCTCCGACACCAGGGACACCTGCGACTCCAGGGATACCTC			
4840	T	A	A	CCGGGAACACCTCCGACACTAGGGACACCTGCGACTCCAGGGATACCTC			
4840	IS	[GA]		GGGGGCTTTCCCGGCTTTGGTGTCGGAGTCGGAGGTATCCCTGGAGTCGCAGGTGTCCCT[GA]GTGTCGGAGGTGTTCCCGGAGTCGGAGGTGTCCCGGGAGT TGGCATTTCCCGTGAGCCTT	ctg15590	7	
4845	I		S	GGACATAGGAGTCCTTGGTAGAATCAACTTTCTTTAAATCAACACCAAAA			
4845	P	A	S	CGCGCCGAGGTACCACCTCCATGTTGAA			
4845	P	G	S	ATGACGTGGCAGACCACCACCTCCATGTTG			
4845	T	A	S	TTCTTTCAACATGGAGGTGGTATTTGGTGTTGATTTAAAGAAAGTTGATTCTACCAAGGACTCCTATGTCCTT			
4845	T	G	S	TTCTTTCAACATGGAGGTGGTGTTTGGTGTTGATTTAAAGAAAGTTGATTCTACCAAGGACTCCTATGTCCTT			
4845	IS	[AG]		AAGCCATAAGAATTGCTTCCCTGAGATCCTTAAAAAAGCTTCTTTCAACATGGAGGTGGT[AG]TTTGGTGTTGATTTAAAGAAAGTTGATTCTACCAAGGACTCCTA TGTCCTTGTCAGCAAA	ctg13414	X	MAGEB3
4879	I		S	ACAAGTATTTATGGAGTGCACTCTGTACTAGACACAATAGAAT			
4879	P	C	S	ATGACGTGGCAGACGACTACAATAGAAGGGAAAAGAT			
4879	P	T	S	CGCGCCGAGGAACTACAATAGAAGGGAAAAGATA			
4879	T	C	S	ACAATATCTTTTCCCTTCTATTGTAGTCTTCTATTGTGTCTAGTACAGAGTGCACTCCATAAATACTTGTAA			
4879	T	T	S	ACAATATCTTTTCCCTTCTATTGTAGTTTTCTATTGTGTCTAGTACAGAGTGCACTCCATAAATACTTGTAA			
4879	IS	[CT]		GGGACAGAAGCAAGCACTGGGATACTTGTTTTCACAATATCTTTTCCCTTCTATTGTAGT[CT]TTCTATTGTGTCTAGTACAGAGTGCACTCCATAAATACTTGTAAA TTTGTACATGTTATG	ctg15907	6	
4888	I		A	GGCATGAAGAGGCTCCAAGTCTCAGGAGCT			
4888	P	G	A	ATGACGTGGCAGACGGGTCATTGAAGATGTGTT			
4888	P	A	A	CGCGCCGAGGAGGTCATTGAAGATGTGTTATT			
4888	T	G	A	ATAAAATAACACATCTTCAATGACCCGCTCCTGAGACTTGGAGCCTCTTCATGCCCC			
4888	T	A	A	ATAAAATAACACATCTTCAATGACCTGCTCCTGAGACTTGGAGCCTCTTCATGCCCC			
4888	IS	[GA]		TCACAAACTAGAAACCCATAGGACTTCCGGGGGCATGAAGAGGCTCCAAGTCTCAGGAGC[GA]GGTCATTGAAGATGTGTTATTTTATCATTTTCATGATGAGATA CAGCCTGAAAGCAGATC	ctg14747	2	
4894	I		S	GCCCTAAGAATAAACAGGAGGTTTGCTATGTTGAAAA			
4894	P	A	S	CGCGCCGAGGTTGAAAATGGGTGGAGTTC			
4894	P	G	S	ATGACGTGGCAGACCTGAAAATGGGTGGAGTT			
4894	T	A	S	ATCTGAACTCCACCCATTTTCAATTTCAACATAGCAAACCTCCTGTTTATTCTTAGGGCAA			
4894	T	G	S	ATCTGAACTCCACCCATTTTCAGTTTCAACATAGCAAACCTCCTGTTTATTCTTAGGGCAA			
4894	IS	[AG]		TGTTCTTCAACAGGTGAAAAGCATAATAAAACATGCTCATCTGAACTCCACCCATTTTCA[AG]TTTCAACATAGCAAACCTCCTGTTTATTCTTAGGGCAAATTCAAA ATTGTACATATTAGG			
4898	I		A	CTAAAACATTCCCCATATTCCCCACCCAGCACTCA			
4898	P	C	A	ATGACGTGGCAGACCACCTCTTTAGCTCTTCAG			
4898	P	T	A	CGCGCCGAGGTACCTCTTTAGCTCTTCAGG			
4898	T	C	A	GAGACCTGAAGAGCTAAAGAGGTGGAGTGCTGGGTGGGGAATATGGGGAATGTTTTAGGG			
4898	T	T	A	GAGACCTGAAGAGCTAAAGAGGTAGAGTGCTGGGTGGGGAATATGGGGAATGTTTTAGGG			
4898	IS	[CT]		CATCTCTGGGCCATTGTCAATGTTCCCTAAAACATTCCCCATATTCCCCACCCAGCACTC[CT]ACCTCTTTAGCTCTTCAGGTCTCAGCTCAGAAGTCACTTCTTCC AGGAAGCCTTCCTTGA	ctg15972	16	
4922	I		S	GAAGGAGTCACCCTGGCCCTCCTCCT			
4922	P	T	S	CGCGCCGAGGACCTGACTTACTTGATCCTA			
4922	P	C	S	ATGACGTGGCAGACGCCTGACTTACTTGATCC			
4922	T	T	S	ACTTTAGGATCAAGTAAGTCAGGTGGAGGAGGGCCAGGGTGACTCCTTCCC			
4922	T	C	S	ACTTTAGGATCAAGTAAGTCAGGCGGAGGAGGGCCAGGGTGACTCCTTCCC			
4922	IS	[TC]		ATTGTACAAATTGACAATGCCAAGCTGGCTGCCGATGACTTTAGGATCAAGTAAGTCAGG[TC]GGAGGAGGGCCAGGGTGACTCCTTCCCCACCCTCCATCCCAA TGCCCAAATACTTGTTGA	ctg17036	17	
4932	I		S	CCCCAAGATGCATCTTGCCCACAGCAT			
4932	P	G	S	ATGACGTGGCAGACCCCTCAAACCTGCTG			
4932	P	T	S	CGCGCCGAGGACCTCAAACCTGCTGC			
4932	T	G	S	GTGAGCAGCAGGTTTGAGGGTGCTGTGGGCAAGATGCATCTTGGGGTG			
4932	T	T	S	GTGAGCAGCAGGTTTGAGGTTGCTGTGGGCAAGATGCATCTTGGGGTG			
4932	IS	[GT]		GGGGACATGTCTGGGAGGTCAGGTGGATGTTTACCAATGAGGTGAGCAGCAGGTTTGAGG[GT]TGCTGTGGGCAAGATGCATCTTGGGGTGCTGACGGGCAGT CTGGGCAGCTGAAGGTGTGA	MULTIPLE	MULTIPLE	
4934	I		A	TCACTTTCCACATGCATAATTTTGGCCTTGACAGAGAACTCA			
4934	P	C	A	ATGACGTGGCAGACCGAGATGTTCCCTGC			
4934	P	T	A	CGCGCCGAGGTGAGATGTTCCCTGCC			
4934	T	C	A	TGCAGGCAGGGAACATCTCGGAGTTCTCTGTCAAGGCCAAAATTATGCATGTGGAAAGTGATC			
4934	T	T	A	TGCAGGCAGGGAACATCTCAGAGTTCTCTGTCAAGGCCAAAATTATGCATGTGGAAAGTGATC			
4934	IS	[CT]		TCAATCAAACGTTTTTTGATCACTTTCCACATGCATAATTTTGGCCTTGACAGAGAACTC[CT]GAGATGTTCCCTGCCTGCAAAGAACCTTCAGTCTGGTTGGGGCA TTGAGAAATAGCCTCA	ctg12369	1	
4938	I		A	TCTCTCCCATTGGAATGCGAGTTCTACCAGC			
4938	P	G	A	ATGACGTGGCAGACGAACTGCTTGTTCATTCCT			
4938	P	T	A	CGCGCCGAGGTAACTGCTTGTTCATTCCTG			
4938	T	G	A	GATTCAGGAATGAACAAGCAGTTCCTGGTAGAACTCGCATTCCAATGGGAGAGACA			
4938	T	T	A	GATTCAGGAATGAACAAGCAGTTACTGGTAGAACTCGCATTCCAATGGGAGAGACA			
4938	IS	[GT]		TTTAAGAATTTAAAAATGTGTTTATTATTGTCTCTCCCATTGGAATGCGAGTTCTACCAG[GT]AACTGCTTGTTCATTCCTGAATCTCCAGCCTGGAGAACAGGGCC AGCACATAGTAGATTC	ctg13517	11	
4942	I		A	GTAGGCCAGGAGCCTGTCGGGCA			
4942	P	T	A	CGCGCCGAGGTGGGCAGAGGCTC			
4942	P	C	A	ATGACGTGGCAGACCGGGCAGAGGCTC			
4942	T	T	A	GCCTGAGCCTCTGCCCAGCCCGACAGGCTCCTGGCCTACCA			
4942	T	C	A	GCCTGAGCCTCTGCCCGGCCCGACAGGCTCCTGGCCTACCA			
4942	IS	[TC]		CCCAGGTGCCTCTGCTCTCTTATTAGCTAGGGTAGGTGGTAGGCCAGGAGCCTGTCGGGC[TC]GGGCAGAGGCTCAGGCCCATGCCTCTCCTTGGTCCCCAGTC TGTGGAAAACTGCATGTGT	ctg12369	1	
4966	I		S	AGAATGCAGAAGAGTATGTAAAACTGCCTTGTTCTACAGCAAAGAATTCC			
4966	P	C	S	ATGACGTGGCAGACGTTCCCATCAGATGACTAC			
4966	P	A	S	CGCGCCGAGGTTTCCCATCAGATGACTACT			
4966	T	C	S	ATGAAGTAGTCATCTGATGGGAACGAATTCTTTGCTGTAGAACAAGGCAGTTTTACATACTCTTCTGCATTCTCA			
4966	T	A	S	ATGAAGTAGTCATCTGATGGGAAAGAATTCTTTGCTGTAGAACAAGGCAGTTTTACATACTCTTCTGCATTCTCA			

FIGURE 129B

				GGTAGCATTTGCTGCTCTAGATAATGATTAAGAGTATATGAAGTAGTCATCTGATGGGAA[CA]GAATTCTTTGCTGTAGAACAAGGCAGTTTTACATACTCTTCTGC			
4968	IS	[CA]		ATTCTCAGCTGTAAAG	ctg15665	20	
4969	I		S	GGGGCAGGGTGCAGTGTCTCATGTCTT			
4969	P	C	S	ATGACGTGGCAGACGTAATCCCAGCACTTTGG			
4969	P	T	S	CGCGCCGAGGATAATCCCAGCACTTTGG			
4969	T	C	S	CCTCCCAAAGTGCTGGGATTACAGACATGAGACACTGCACCCTGCCCCAT			
4969	T	T	S	CCTCCCAAAGTGCTGGGATTATAGACATGAGACACTGCACCCTGCCCCAT			
				TGGTCTTGAATTCCTGACCTTGTGATCCACCCGCCTCGGCCTCCCAAAGTGCTGGGATTA[CT]AGACATGAGACACTGCACCCTGCCCCATTCCTTTTAATCTCCC			
4969	IS	[CT]		TTGGAATTAGCTGTTTG	ctg17441	9	
4997	I		S	GGTGACCGAGGAACTATACCCACTTGGTTTTGTCACA			
4997	P	A	S	CGCGCCGAGGTGAGATGGTTCAAAGTGAG			
4997	P	G	S	ATGACGTGGCAGACCGAGATGGTTCAAAGTGAG			
4997	T	A	S	TTGGCTCACTTTGAACCATCTCAGTGACAAAACCAAGTGGGTATAGTTCCTCGGTCACCTC			
4997	T	G	S	TTGGCTCACTTTGAACCATCTCGGTGACAAAACCAAGTGGGTATAGTTCCTCGGTCACCTC			
				AAGATCCTTCTATGCCAGTTGCACTCAACATTGGCAAATTGGCTCACTTTGAACCATCT[AG]GTGACAAAACCAAGTGGGTATAGTTCCTCGGTCACCTCCACAAT			
4997	IS	[AG]		CCAGATGGAATCCTTG	ctg12824	13	
5108	I		A	GCGGTGCTACTGGTATCTCCTGGGTCCA			
5108	P	C	A	ATGACGTGGCAGACCGGGATGCTGCTAAAC			
5108	P	T	A	CGCGCCGAGGTGGGATGCTGCTAAAC			
5108	T	C	A	GGAGGTTTAGCAGCATCCCGGGACCCAGGAGATACCAGTAGCACCGCCT			
5108	T	T	A	GGAGGTTTAGCAGCATCCCAGGACCCAGGAGATACCAGTAGCACCGCCT			
				TGGAGACATTTTCAGTTGCCACAACTGGGGGAGGCGGTGCTACTGGTATCTCCTGGGTCC[CT]GGGATGCTGCTAAACCTCCCACCGTGCACACGGCAGCCCCA			
5108	IS	[CT]		CCACAACCATCTTCCAGCT	ctg16114	X	
5121	I		S	CCCAAGCCCAACCCCCAAACCTCTGT			
5121	P	G	S	CGCGCCGAGGCTTCCAATCCCTGGTAG			
5121	P	C	S	ATGACGTGGCAGACGTTCCAATCCCTGGTAG			
5121	T	G	S	GGAGCTACCAGGGATTGGAAGCAGAGGTTTGGGGGTTGGGCTTGGGAG			
5121	T	C	S	GGAGCTACCAGGGATTGGAACCAGAGGTTTGGGGGTTGGGCTTGGGAG			
				CCCTGGGTTGTGGAAATCAGTGGTCATGCCTGTCTCTCAGGGAGCTACCAGGGATTGGAA[GC]CAGAGGTTTGGGGGTTGGGCTTGGGAGAAAAAACAAGTCAA			
5121	IS	[GC]		GACCTGAACCCCATTTCTG	ctg16574	1	
5205	I		S	GAAGGAAGAGAAGAAGGAAGAGATGAAAATCATCTGGTTTTCAGTGTTCT			
5205	P	C	S	ATGACGTGGCAGACGTACTTGACTATATCACACCTC			
5205	P	T	S	CGCGCCGAGGATACTTGACTATATCACACCTCA			
5205	T	C	S	ATGTTGAGGTGTGATATAGTCAAGTACGAACACTGAAAACCAGATGATTTTCATCTCTTCCTTCTTCTCTTCCTTCCT			
5205	T	T	S	ATGTTGAGGTGTGATATAGTCAAGTATGAACACTGAAAACCAGATGATTTTCATCTCTTCCTTCTTCTCTTCCTTCCT			
				GCAGTTTTAGGGGCAAGACTCTGATCACAGGACTATGTTGAGGTGTGATATAGTCAAGTA[CT]GAACACTGAAAACCAGATGATTTTCATCTCTTCCTTCTTCTCTT			
5205	IS	[CT]		CCTTCCTTACCCTCAT	ctg15064	7	
5207	I		S	CAATTTTCATGACCATTCTGAATAAAACACATGACTACTATAGTAGAGAACTTAA			
5207	P	A	S	CGCGCCGAGGTTGGATGAAATTTCTAATCACAC			
5207	P	G	S	ATGACGTGGCAGACCTGGATGAAATTTCTAATCACAC			
5207	T	A	S	GTGTGTGTGATTAGAAATTTCATCCAATAAGTTCTCTACTATAGTAGTCATGTGTTTTATTCAGAATGGTCATGAAAATTGAA			
5207	T	G	S	GTGTGTGTGATTAGAAATTTCATCCAGTAAGTTCTCTACTATAGTAGTCATGTGTTTTATTCAGAATGGTCATGAAAATTGAA			
				TTTTGCTATGATTTTTGACTGAAGGTGAAGGGAAGTGTGTGTGATTAGAAATTTCATCCA[AG]TAAGTTCTCTACTATAGTAGTCATGTGTTTTATTCAGAATGGTCA			
5207	IS	[AG]		TGAAAATTGAACTTC	ctg13284	10	
5209	I		S	AGGGCACAACCGACCCAATCAAGGTGAT			
5209	P	T	S	CGCGCCGAGGACCTCCCTTGTACCC			
5209	P	C	S	ATGACGTGGCAGACGCCTCCCTTGTACCC			
5209	T	T	S	AAGTGGGTACAAGGGAGGTTCACCTTGATTGGGTCGGTTGTGCCCTCA			
5209	T	C	S	AAGTGGGTACAAGGGAGGCTCACCTTGATTGGGTCGGTTGTGCCCTCA			
				CATATGCAAAAGATAGAGCTGTCAGGCCCTCAGGGTGGGCTGAAGTGGGTACAAGGGAGG[TC]TCACCTTGATTGGGTCGGTTGTGCCCTCAGCACAGGTGAGG			
5209	IS	[TC]		GGTTGGTGGAGGCTGAAAG	ctg15907	6	
5211	I		A	GCCAGGCCACAACCTGAAAGCAGACATGT			
5211	P	A	A	CGCGCCGAGGATCTCATTGCCCACCG			
5211	P	C	A	ATGACGTGGCAGACCTCTCATTGCCCACC			
5211	T	A	A	AAGCCGGTGGGCAATGAGAGCATGTCTGCTTTCAGGTTGTGGCCTGGCCT			
5211	T	C	A	AAGCCGGTGGGCAATGAGAGCATGTCTGCTTTCAGGTTGTGGCCTGGCCT			
				CTATGGCAGAGAGAACCCAACATGATCAGCAGGCCAGGCCACAACCTGAAAGCAGACATG[AC]TCTCATTGCCCACCGGCTTCTCTGGTGACGTGGGAATGCTCA			
5211	IS	[AC]		GAGCTGCAGCAGCACTGG	ctg15907	6	
5223	I		A	GTGGGATGGTGTGAGTAGAGACTGATCTCTTCAGTCACT			
5223	P	A	A	CGCGCCGAGGATAACTAGTTGCCTACAACC			
5223	P	G	A	ATGACGTGGCAGACGTAACTAGTTGCCTACAACC			
5223	T	A	A	AGGAGGTTGTAGGCAACTAGTTATGTGACTGAAGAGATCAGTCTCTACTCACACCATCCCACCC			
5223	T	G	A	AGGAGGTTGTAGGCAACTAGTTACGTGACTGAAGAGATCAGTCTCTACTCACACCATCCCACCC			
				AGTGAAGCCCTGGGTTTGGGGGGTGGGATGGTGTGAGTAGAGACTGATCTCTTCAGTCAC[AG]TAACTAGTTGCCTACAACCTCCTTAAGAGAAGGAAGATCTAA			
5223	IS	[AG]		TAGCCTCTCTCAGATGCC	ctg13740	5	
5251	I		A	GCTCCCCCTCCACCACCTCCGAT			
5251	P	G	A	ATGACGTGGCAGACGCCACACGTGATCC			
5251	P	A	A	CGCGCCGAGGACCACACGTGATCCC			
5251	T	G	A	AGAAGGGATCACGTGTGGCTCGGAGGTGGTGGAGGGGGAGCAG			
5251	T	A	A	AGAAGGGATCACGTGTGGTTCGGAGGTGGTGGAGGGGGAGCAG			
				TCGGCAAGGGCTTCCCACACCTCTTGGGCACCTGGGCTGCTCCCCCTCCACCACCTCCGA[GA]CCACACGTGATCCCTTCTCTCAAGCAGGTGCTACATCCTAGA			
5251	IS	[GA]		GAACGACACAGTCCAGTG	ctg15665	20	
5256	I		A	GGCACCGGGTCCTCACCTTCACGAT			
5256	P	A	A	CGCGCCGAGGAAAAGGCCCCACAGC			
5256	P	G	A	ATGACGTGGCAGACGAAAGGCCCCACAG			
5256	T	A	A	ACGTGCTGTGGGGCCTTTTTCGTGAAGGTGAGGACCCGGTGCCCC			
5256	T	G	A	ACGTGCTGTGGGGCCTTTCTCGTGAAGGTGAGGACCCGGTGCCCC			
				GTGCGGCTGCAGAGTCAGATGGGGCGGGGATTTCGGGGCACCGGGTCCTCACCTTCACGA[AG]AAAGGCCCCACAGCACGTCCCCACTACCCGACGACTCACT			
5256	IS	[AG]		CTTCGTGGCTTCTCTCTCCT			
5332	I		S	CGTGGCATTGCTGAAAACCCACGCACCT			
5332	P	T	S	CGCGCCGAGGAGTGGCATGACTCACTY			
5332	P	C	S	ATGACGTGGCAGACGGTGGCATGACTCACTY			
5332	T	T	S	GGGCAGTGAGTCATGCCACTGGTGCGTGGGTTTTCAGCAATGCCACGTG			
5332	T	C	S	GGGCAGTGAGTCATGCCACCGGTGCGTGGGTTTTCAGCAATGCCACGTG			
				GGCCATTGCAGACATCCTCTTTGTTCTTACTCTCCCATTCTGGGCAGTGAGTCATGCCAC[TC]GGTGCGTGGGTTTTCAGCAATGCCACGTGCAAGTTGCTAAAAG			
5332	IS	[TC]		GCATCTATGCCATCAAC	ctg13516	6	CCR6
5338	I		S	CCTCTTCTGGAGCAGACCTGTCCCTCCAAAAGT			
5338	P	C	S	ATGACGTGGCAGACGACTGGCTTACAAATTTTCG			
5338	P	T	S	CGCGCCGAGGAACTGGCTTACAAATTTTCG			
5338	T	C	S	TGGACGAAAATTTGTAAGCCAGTCCTTTTGGAGGGACAGGTCTGCTCCAGAAGAGGGC			
5338	T	T	S	TGGACGAAAATTTGTAAGCCAGTTCTTTTGGAGGGACAGGTCTGCTCCAGAAGAGGGC			
				TGACTGTGGCCCTGGACTTTGCTGTGCTCGTCATTTTTGGACGAAAATTTGTAAGCCAGT[CT]CTTTTGGAGGGACAGGTCTGCTCCAGAAGAGGGCATAAAGACA			
5338	IS	[CT]		CTGCTCAAGCTCCAGAA	ctg13934	8	DKK4
5366	I		S	GACGGTCAAGTCCTTCCTCAGCAGCACTCT			
5366	P	T	S	CGCGCCGAGGAAGAGGAAACCCAGCA			
5366	P	C	S	ATGACGTGGCAGACGAGAGGAAACCCAGCA			
5366	T	T	S	TTCTTGCTGGGTTTCCTCTTGAGTGCTGCTGAGGAAGGACTTGACCGTCAG			
5366	T	C	S	TTCTTGCTGGGTTTCCTCTCGAGTGCTGCTGAGGAAGGACTTGACCGTCAG			

FIGURE 129B

				TCCACTCAGACTTCCAAATGAGGCTTCTCCAGAATTGATTTTTCTTGCTGGGTTTCCTCT[TC]GAGTGCTGCTGAGGAAGGACTTGACCGTCAGGATGGAGAGGG		
5366	IS	[TC]		GCAATGCTGCAGCTTGGC	ctg15330	9
5843	I		S	CTTTTCTTCCTTTAGTGTCTGAAATGCCCTGTCTATAGGGCT		
5843	P	T	S	CGCGCCGAGGAGTTAGAAGATGGTCCACC		
5843	P	C	S	ATGACGTGGCAGACGGTTAGAAGATGGTCCAC		
5843	T	T	S	ATAGGGTGGACCATCTTCTAACTGCCCTATAGACAGGGCATTTCAGACACTAAAGGAAGAAAAGGA		
5843	T	C	S	ATAGGGTGGACCATCTTCTAACCGCCCTATAGACAGGGCATTTCAGACACTAAAGGAAGAAAAGGA		
				AACTCAGAAATAATGATTTCCTCTCATTTTCCCTATTAATAGGGTGGACCATCTTCTAAC[TC]GCCCTATAGACAGGGCATTTCAGACACTAAAGGAAGAAAAGGAA		
5843	IS	[TC]		TATACAGTAGTACTGA	ctg15907	6
5849	I		A	AGAATAGGAGCTTTCTTCCCACACAGAAGCATT		
5849	P	C	A	CGCGCCGAGGCAATTTAGACAACTATCCACAGA		
5849	P	G	A	ATGACGTGGCAGACGAATTTAGACAACTATCCACAGA		
5849	T	C	A	CTCATCTGTGGATAGTTGTCTAAATTGATGCTTCTGTGTGGGAAGAAAGCTCCTATTCTAC		
5849	T	G	A	CTCATCTGTGGATAGTTGTCTAAATTCATGCTTCTGTGTGGGAAGAAAGCTCCTATTCTAC		
				TATGAGAGAAAGGCATCAGCAAAATAGTAGAATAGGAGCTTTCTTCCCACACAGAAGCAT[CG]AATTTAGACAACTATCCACAGATGAGACAATACCATTGTGGGAG		
5849	IS	[CG]		TCCAGGAGTCCAGCAG	ctg15907	6
5860	I		A	CCCAGGGCTTCCAAGGCCAAGCTT		
5860	P	G	A	ATGACGTGGCAGACGAGCTGAGCTGAGCT		
5860	P	A	A	CGCGCCGAGGAAGCTGAGCTGAGCT		
5860	T	G	A	GCTCAGCTCAGCTCAGCTCAGCTTGGCCTTGGAAGCCCTGGGTG		
5860	T	A	A	GCTCAGCTCAGCTCAGCTTAGCTTGGCCTTGGAAGCCCTGGGTG		
				GTTCCAAAATTTGAGCTCCAGTTGCTCCCTACCCGCACCCAGGGCTTCCAAGGCCAAGCT[GA]AGCTGAGCTGAGCTGAGCTCTGGTCCCCTCCCATAAAGCCTG		
5860	IS	[GA]		TCTGCGACTCTCAAGGGC	ctg14391	11
5953	I		S	ACACTTTTTTAAGAGCAATTTTAGGTTTATAGCAAAAATGAGCAGAAAC		
5953	P	C	S	ATGACGTGGCAGACGTAGAGAGAATTCCAATATACCC		
5953	P	A	S	CGCGCCGAGGTTAGAGAGAATTCCAATATACCC		
5953	T	C	S	AGGAGGGTATATTGGAATTCTCTCTACTTTCTGCTCATTTTTGCTATAAACCTAAAATTGCTCTTAAAAAAGTGTGT		
5953	T	A	S	AGGAGGGTATATTGGAATTCTCTCTAATTTCTGCTCATTTTTGCTATAAACCTAAAATTGCTCTTAAAAAAGTGTGT		
				GAAAGGGGAGCTTGCGGAAGGAAAGGGAGAAGGGAGGAGGGTATATTGGAATTCTCTCTA[CA]TTTCTGCTCATTTTTGCTATAAACCTAAAATTGCTCTTAAAAA		
5953	IS	[CA]		AGTGTGTTAATTTTTAA	ctg12581	4
5955	I		A	TCCTCCAAACTTTCAAATGGTTTTGGAAGCATTACATTGTCTACGA		
5955	P	T	A	CGCGCCGAGGTGAAATCCCTTTCTACTTGAG		
5955	P	C	A	ATGACGTGGCAGACCGAAATCCCTTTCTACTTGA		
5955	T	T	A	ATATCTCAAGTAGAAAGGGATTTCACGTAGACAATGTAATGCTTCCAAAACCATTTGAAAGTTTGGAGGAGT		
5955	T	C	A	ATATCTCAAGTAGAAAGGGATTTCGCGTAGACAATGTAATGCTTCCAAAACCATTTGAAAGTTTGGAGGAGT		
				TTCCTTGACCTTCACTCCTCCAAACTTTCAAATGGTTTTGGAAGCATTACATTGTCTACG[TC]GAAATCCCTTTCTACTTGAGATATTCACAATGAGTTCTGGGCATG		
5955	IS	[TC]		TCCTGTGCTTGTGTA	ctg14189	19
5961	I		S	GGTCCTTTAAAAGAGTGCCCCACCCCCAACT		
5961	P	C	S	ATGACGTGGCAGACGCTGTCCTCTTGCCT		
5961	P	T	S	CGCGCCGAGGACTGTCCTCTTGCCTT		
5961	T	C	S	TGCCAAGGCAAGAGGACAGCGTTGGGGGTGGGGCACTCTTTTAAAGGACCCC		
5961	T	T	S	TGCCAAGGCAAGAGGACAGTGTTGGGGGTGGGGCACTCTTTTAAAGGACCCC		
				TCTTTGTCCAAAGTACTCAGACAGGTCCTGCCAAGAGGTCCTGCCAAGGCAAGAGGACAG[CT]GTTGGGGGTGGGGCACTCTTTTAAAGGACCCCATCAAAGGAT		
5961	IS	[CT]		CTCCCCTCCTCCCCCAAA	ctg15907	6
5966	I		S	GATCCCAGCATTCTTTTTGGAATATACCTGGTACTCTACCCAA		
5966	P	A	S	CGCGCCGAGGTTGGATTCTTCTTACCTCAGA		
5966	P	G	S	ATGACGTGGCAGACCTGGATTCTTCTTACCTCAG		
5966	T	A	S	TTCCTCTGAGGTAAGAAGAATCCAATGGGTAGAGTACCAGGTATATTCCAAAAAGAATGCTGGGATCCT		
5966	T	G	S	TTCCTCTGAGGTAAGAAGAATCCAGTGGGTAGAGTACCAGGTATATTCCAAAAAGAATGCTGGGATCCT		
				CCACATTTTTAAAATGTTCTCTCCTGAGTTCAGAACTTCCTCTGAGGTAAGAAGAATCCA[AG]TGGGTAGAGTACCAGGTATATTCCAAAAAGAATGCTGGGATCCT		
5966	IS	[AG]		GATTTAGCAATGTGAT	ctg13446	1
5970	I		A	AGACCACCCAACCCGACCCCAACTT		
5970	P	C	A	ATGACGTGGCAGACCCAGCTCCTCCTCTC		
5970	P	A	A	CGCGCCGAGGACAGCTCCTCCTCTCT		
5970	T	C	A	ACACAGAGAGGAGGAGCTGTAGTTGGGGTCGGGTTGGGTGGTCTGC		
5970	T	A	A	ACACAGAGAGGAGGAGCTGTAGTTGGGGTCGGGTTGGGTGGTCTGC		
				AGATGGGGGCAGCGTTGACAAGGTGGGAAGCCATGCAGACCACCCAACCCGACCCCAACT[CA]CAGCTCCTCCTCTCTGTGTCTTCAGTCAGCTCAGGGCCTCA		
5970	IS	[CA]		CACAGGGCTGGACACTTGG	ctg22fin4	22
5983	I		S	TCTTGCCCTTTCCCTCTCTTCTGTAGTCCAAGATAACACT		
5983	P	T	S	CGCGCCGAGGATGCAATGTAATCTCTACTTAGAA		
5983	P	C	S	ATGACGTGGCAGACGTGCAATGTAATCTCTACTTAGA		
5983	T	T	S	TCTTTTCTAAGTAGAGATTACATTGCATGTGTTATCTTGGACTACAGAAGAGAGGGAAAGGGCAAGACT		
5983	T	C	S	TCTTTTCTAAGTAGAGATTACATTGCACGTGTTATCTTGGACTACAGAAGAGAGGGAAAGGGCAAGACT		
				TTTATCCAGAAGAGCAGATGGCTAGAATCGAATTCTTTTCTAAGTAGAGATTACATTGCA[TC]GTGTTATCTTGGACTACAGAAGAGAGGGAAAGGGCAAGACTGG		
5983	IS	[TC]		AGCCATTGAAGGTATAA	ctg13446	1
5987	I		A	GGACGGGTCCGCAGGGAAGCAT		
5987	P	G	A	ATGACGTGGCAGACGGGGTAGCCTCTCAG		
5987	P	A	A	CGCGCCGAGGAGGGTAGCCTCTCAGA		
5987	T	G	A	AACCTCTGAGAGGCTACCCCTGCTTCCCTGCGGACCCGTCCCT		
5987	T	A	A	AACCTCTGAGAGGCTACCCTTGCTTCCCTGCGGACCCGTCCCT		
				GGGGGGATGGTGCAGTGCCCAAAGGCGCAGCTGGGGCAGGGACGGGTCCGCAGGGAAGCA[GA]GGGTAGCCTCTCAGAGGTTTTGTGTGCTCTCTGTTCCTCA		
5987	IS	[GA]		ACCATTGGTTTAAAATTTTA	ctg22fin10	22
6184	I		A	CAAATCCAGCAATATGTTGCTGATTAGATGTTGTGATAAAAACAA		
6184	P	C	A	ATGACGTGGCAGACCAGCACCAAAGAAACAAAC		
6184	P	T	A	CGCGCCGAGGTAGCACCAAAGAAACAAACC		
6184	T	C	A	CAATGGTTTGTTTCTTTGGTGCTGTGTTTTTATCACAACATCTAATCAGCAACATATTGCTGGATTTGTT		
6184	T	T	A	CAATGGTTTGTTTCTTTGGTGCTATGTTTTTATCACAACATCTAATCAGCAACATATTGCTGGATTTGTT		
				TCATCATCTTATCTAACAAATCCAGCAATATGTTGCTGATTAGATGTTGTGATAAAAACA[CT]AGCACCAAAGAAACAAACCATTGGTGGAACTACTTATTCGTGACA		
6184	IS	[CT]		TATAGAAAAGCATCT	ctg18037	7
6214	I		S	TGGCCAGAGGCCAGGCCTCTCAGA		
6214	P	A	S	CGCGCCGAGGTCCCTCTCAGGTCCA		
6214	P	G	S	ATGACGTGGCAGACCCCCTCTCAGGTCCA		
6214	T	A	S	TACTTGGACCTGAGAGGGACTGAGAGGCCTGGCCTCTGGCCATG		
6214	T	G	S	TACTTGGACCTGAGAGGGGCTGAGAGGCCTGGCCTCTGGCCATG		
				AAAGTCATGGCCAGCTTTGATGTCTAGGGGTAAAGGTCTCTGTACTTGGACCTGAGAGGG[AG]CTGAGAGGCCTGGCCTCTGGCCATGTGTATTTGGGATGGCA		
6214	IS	[AG]		GCCTGGCTCACAGAGGAAC	ctg15842	19
6215	I		S	GGAGGCTGAGCAAATATGGCCCATGTGACAT		
6215	P	G	S	CGCGCCGAGGCAGAGTGACAGAGCCT		
6215	P	C	S	ATGACGTGGCAGACGAGAGTGACAGAGCCTC		
6215	T	G	S	CAGTGAGGCTCTGTCACTCTGTGTCACATGGGCCATATTTGCTCAGCCTCCCC		
6215	T	C	S	CAGTGAGGCTCTGTCACTCTCTGTCACATGGGCCATATTTGCTCAGCCTCCCC		
				CAGTTGCTCACTGTATTTTCAATGTTTCCTCTCATTTCTCCAGTGAGGCTCTGTCACTCT[GC]TGTCACATGGGCCATATTTGCTCAGCCTCCCCTCTATCCTGGAA		
6215	IS	[GC]		GATCTCCAAGGCCAGG	ctg19262	19
6224	I		S	GCGTATTTTCCGTGGCGTACACACACGTGAA		
6224	P	A	S	CGCGCCGAGGTGCGTTAGTGTTGTGTTC		
6224	P	G	S	ATGACGTGGCAGACCGCGTTAGTGTTGTGTT		
6224	T	A	S	CTTAGAACACAACACTAACGCATCACGTGTGTGTACGCCACGGAAAATACGCCT		
6224	T	G	S	CTTAGAACACAACACTAACGCGTCACGTGTGTGTACGCCACGGAAAATACGCCT		

FIGURE 129B

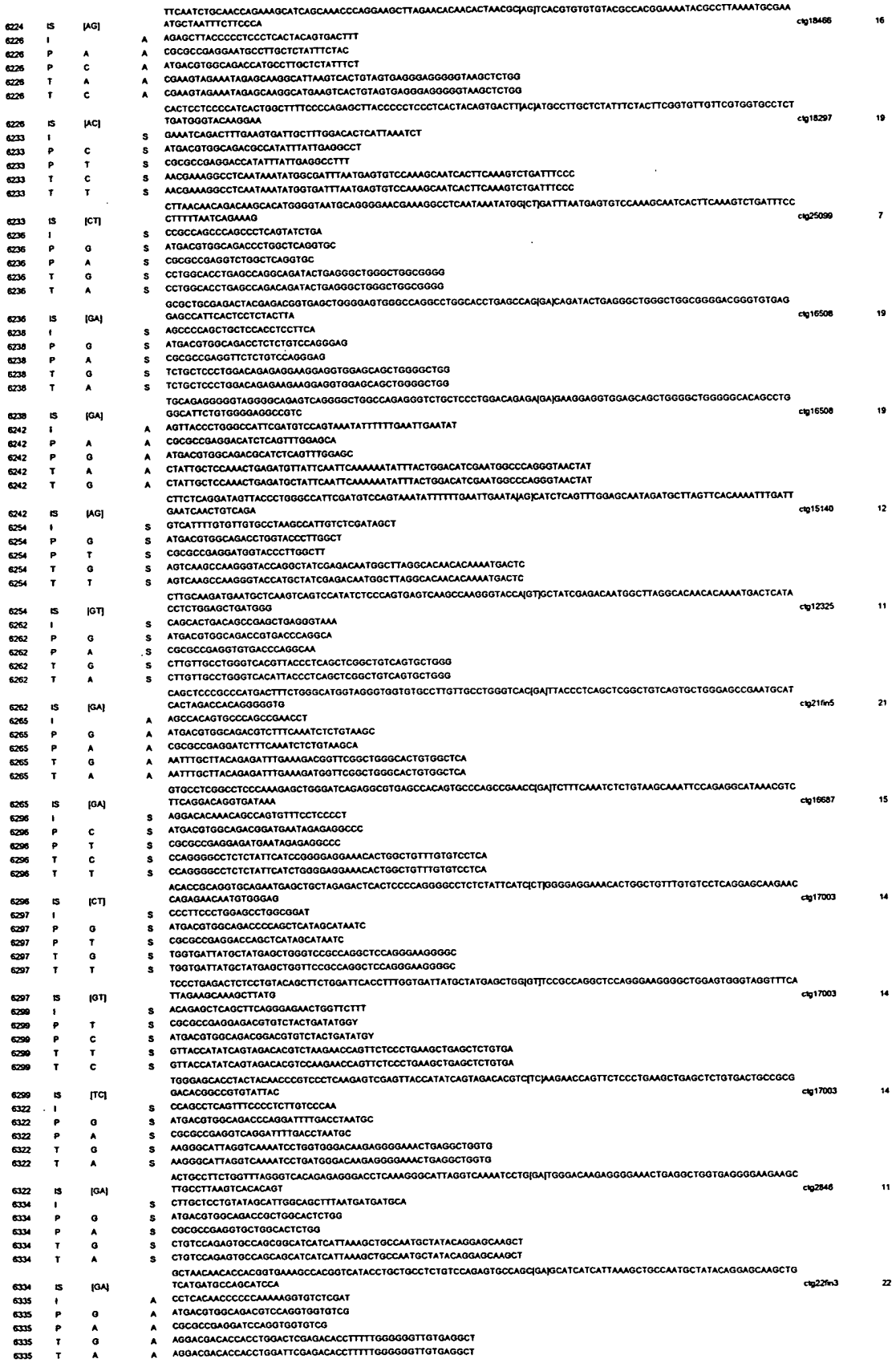

TTCAATCTGCAACCAGAAAGCATCAGCAAACCCAGGAAGCTTAGAACACAACACTAACGC[AG]TCACGTGTGTGTACGCCACGGAAAATACGCCTTAAAATGCGAA
6224 IS [AG] ATGCTAATTTCTTCCCA ctg18466 16
6226 I A AGAGCTTACCCCCTCCCTCACTACAGTGACTTT
6226 P A A CGCGCCGAGGAATGCCTTGCTCTATTTCTAC
6226 P C A ATGACGTGGCAGACCATGCCTTGCTCTATTTCT
6226 T A A CGAAGTAGAAATAGAGCAAGGCATTAAGTCACTGTAGTGAGGGAGGGGGTAAGCTCTGG
6226 T C A CGAAGTAGAAATAGAGCAAGGCATGAAGTCACTGTAGTGAGGGAGGGGGTAAGCTCTGG
CACTCCTCCCCATCACTGGCTTTTCCCCAGAGCTTACCCCCTCCCTCACTACAGTGACTT[AC]ATGCCTTGCTCTATTTCTACTTCGGTGTTGTTCGTGGTGCCTCT
6226 IS [AC] TGATGGGTACAAGGAA ctg18297 19
6233 I S GAAATCAGACTTTGAAGTGATTGCTTTGGACACTCATTAAATCT
6233 P C S ATGACGTGGCAGACGCCATATTTATTGAGGCCT
6233 P T S CGCGCCGAGGACCATATTTATTGAGGCCTTT
6233 T C S AACGAAAGGCCTCAATAAATATGGCGATTTAATGAGTGTCCAAAGCAATCACTTCAAAGTCTGATTTCCC
6233 T T S AACGAAAGGCCTCAATAAATATGGTGATTTAATGAGTGTCCAAAGCAATCACTTCAAAGTCTGATTTCCC
CTTAACAACAGACAAGCACATGGGGTAATGCAGGGGAACGAAAGGCCTCAATAAATATGG[CT]GATTTAATGAGTGTCCAAAGCAATCACTTCAAAGTCTGATTTCC
6233 IS [CT] CTTTTTAATCAGAAAG ctg25099 7
6236 I S CCGCCAGCCCAGCCCTCAGTATCTGA
6236 P G S ATGACGTGGCAGACCCTGGCTCAGGTGC
6236 P A S CGCGCCGAGGTCTGGCTCAGGTGC
6236 T G S CCTGGCACCTGAGCCAGGCAGATACTGAGGGCTGGGCTGGCGGGG
6236 T A S CCTGGCACCTGAGCCAGACAGATACTGAGGGCTGGGCTGGCGGGG
GCGCTGCGAGACTACGAGACGGTGAGCTGGGGAGTGGGCCAGGCCTGGCACCTGAGCCAG[GA]CAGATACTGAGGGCTGGGCTGGCGGGGACGGGTGTGAG
6236 IS [GA] GAGCCATTCACTCCTCTACTTA ctg16508 19
6238 I S AGCCCCAGCTGCTCCACCTCCTTCA
6238 P G S ATGACGTGGCAGACCTCTCTGTCCAGGGAG
6238 P A S CGCGCCGAGGTTCTCTGTCCAGGGAG
6238 T G S TCTGCTCCCTGGACAGAGAGGAAGGAGGTGGAGCAGCTGGGGCTGG
6238 T A S TCTGCTCCCTGGACAGAGAAGAAGGAGGTGGAGCAGCTGGGGCTGG
TGCAGAGGGGGTAGGGGCAGAGTCAGGGGCTGGCCAGAGGGTCTGCTCCCTGGACAGAGA[GA]GAAGGAGGTGGAGCAGCTGGGGCTGGGGGCACAGCCTG
6238 IS [GA] GGCATTCTGTGGGGAGGCCGTC ctg16508 19
6242 I A AGTTACCCTGGGCCATTCGATGTCCAGTAAATATTTTTTGAATTGAATAT
6242 P A A CGCGCCGAGGACATCTCAGTTTGGAGCA
6242 P G A ATGACGTGGCAGACGCATCTCAGTTTGGAGC
6242 T A A CTATTGCTCCAAACTGAGATGTTATTCAATTCAAAAAATATTTACTGGACATCGAATGGCCCAGGGTAACTAT
6242 T G A CTATTGCTCCAAACTGAGATGCTATTCAATTCAAAAAATATTTACTGGACATCGAATGGCCCAGGGTAACTAT
CTTCTCAGGATAGTTACCCTGGGCCATTCGATGTCCAGTAAATATTTTTTGAATTGAATA[AG]CATCTCAGTTTGGAGCAATAGATGCTTAGTTCACAAAATTTGATT
6242 IS [AG] GAATCAACTGTCAGA ctg15140 12
6254 I S GTCATTTTGTGTTGTGCCTAAGCCATTGTCTCGATAGCT
6254 P G S ATGACGTGGCAGACCTGGTACCCTTGGCT
6254 P T S CGCGCCGAGGATGGTACCCTTGGCTT
6254 T G S AGTCAAGCCAAGGGTACCAGGCTATCGAGACAATGGCTTAGGCACAACACAAAATGACTC
6254 T T S AGTCAAGCCAAGGGTACCATGCTATCGAGACAATGGCTTAGGCACAACACAAAATGACTC
CTTGCAAGATGAATGCTCAAGTCAGTCCATATCTCCCAGTGAGTCAAGCCAAGGGTACCA[GT]GCTATCGAGACAATGGCTTAGGCACAACACAAAATGACTCATA
6254 IS [GT] CCTCTGGAGCTGATGGG ctg12325 11
6262 I S CAGCACTGACAGCCGAGCTGAGGGTAAA
6262 P G S ATGACGTGGCAGACCGTGACCCAGGCA
6262 P A S CGCGCCGAGGTGTGACCCAGGCAA
6262 T G S CTTGTTGCCTGGGTCACGTTACCCTCAGCTCGGCTGTCAGTGCTGGG
6262 T A S CTTGTTGCCTGGGTCACATTACCCTCAGCTCGGCTGTCAGTGCTGGG
CAGCTCCCGCCCATGACTTTCTGGGCATGGTAGGGTGGTGTGCCTTGTTGCCTGGGTCAC[GA]TTACCCTCAGCTCGGCTGTCAGTGCTGGGAGCCGAATGCAT
6262 IS [GA] CACTAGACCACAGGGGGTG ctg21fin5 21
6265 I A AGCCACAGTGCCCAGCCGAACCT
6265 P G A ATGACGTGGCAGACGTCTTTCAAATCTCTGTAAGC
6265 P A A CGCGCCGAGGATCTTTCAAATCTCTGTAAGCA
6265 T G A AATTTGCTTACAGAGATTTGAAAGACGGTTCGGCTGGGCACTGTGGCTCA
6265 T A A AATTTGCTTACAGAGATTTGAAAGATGGTTCGGCTGGGCACTGTGGCTCA
GTGCCTCGGCCTCCCAAAGAGCTGGGATCAGAGGCGTGAGCCACAGTGCCCAGCCGAACC[GA]TCTTTCAAATCTCTGTAAGCAAATTCCAGAGGCATAAACGTC
6265 IS [GA] TTCAGGACAGGTGATAAA ctg16687 15
6296 I S AGGACACAAACAGCCAGTGTTTCCTCCCCT
6296 P C S ATGACGTGGCAGACGGATGAATAGAGAGGCCC
6296 P T S CGCGCCGAGGAGATGAATAGAGAGGCCC
6296 T C S CCAGGGGCCTCTCTATTCATCTGGGGAGGAAACACTGGCTGTTTGTGTCCTCA
6296 T T S CCAGGGGCCTCTCTATTCATCTGGGGAGGAAACACTGGCTGTTTGTGTCCTCA
ACACCGCAGGTGCAGAATGAGCTGCTAGAGACTCACTCCCCAGGGGCCTCTCTATTCATC[CT]GGGGAGGAAACACTGGCTGTTTGTGTCCTCAGGAGCAAGAAC
6296 IS [CT] CAGAGAACAATGTGGGAG ctg17003 14
6297 I S CCCTTCCCTGGAGCCTGGCGGAT
6297 P G S ATGACGTGGCAGACCCCAGCTCATAGCATAATC
6297 P T S CGCGCCGAGGACCAGCTCATAGCATAATC
6297 T G S TGGTGATTATGCTATGAGCTGGGTCCGCCAGGCTCCAGGGAAGGGGC
6297 T T S TGGTGATTATGCTATGAGCTGGTTCCGCCAGGCTCCAGGGAAGGGGC
TCCCTGAGACTCTCCTGTACAGCTTCTGGATTCACCTTTGGTGATTATGCTATGAGCTGG[GT]TCCGCCAGGCTCCAGGGAAGGGGCTGGAGTGGGTAGGTTTCA
6297 IS [GT] TTAGAAGCAAAGCTTATG ctg17003 14
6299 I S ACAGAGCTCAGCTTCAGGGAGAACTGGTTCTTT
6299 P T S CGCGCCGAGGAGACGTGTCTACTGATATGGY
6299 P C S ATGACGTGGCAGACGGACGTGTCTACTGATATGY
6299 T T S GTTACCATATCAGTAGACACGTCTAAGAACCAGTTCTCCCTGAAGCTGAGCTCTGTGA
6299 T C S GTTACCATATCAGTAGACACGTCCAAGAACCAGTTCTCCCTGAAGCTGAGCTCTGTGA
TGGGAGCACCTACTACAACCCGTCCCTCAAGAGTCGAGTTACCATATCAGTAGACACGTC[TC]AAGAACCAGTTCTCCCTGAAGCTGAGCTCTGTGACTGCCGCG
6299 IS [TC] GACACGGCCGTGTATTAC ctg17003 14
6322 I S CCAGCCTCAGTTTCCCCTCTTGTCCCAA
6322 P G S ATGACGTGGCAGACCCAGGATTTTGACCTAATGC
6322 P A S CGCGCCGAGGTCAGGATTTTGACCTAATGC
6322 T G S AAGGGCATTAGGTCAAAATCCTGGTGGGACAAGAGGGGAAACTGAGGCTGGTG
6322 T A S AAGGGCATTAGGTCAAAATCCTGATGGGACAAGAGGGGAAACTGAGGCTGGTG
ACTGCCTTCTGGTTTAGGGTCACAGAGAGGGACCTCAAAGGGCATTAGGTCAAAATCCTG[GA]TGGGACAAGAGGGGAAACTGAGGCTGGTGAGGGGAAGAAGC
6322 IS [GA] TTGCCTTAAGTCACACAGT ctg2846 11
6334 I S CTTGCTCCTGTATAGCATTGGCAGCTTTAATGATGATGCA
6334 P G S ATGACGTGGCAGACCGCTGGCACTCTGG
6334 P A S CGCGCCGAGGTGCTGGCACTCTGG
6334 T G S CTGTCCAGAGTGCCAGCGGCATCATCATTAAAGCTGCCAATGCTATACAGGAGCAAGCT
6334 T A S CTGTCCAGAGTGCCAGCAGCATCATCATTAAAGCTGCCAATGCTATACAGGAGCAAGCT
GCTAACAACACCACGGTGAAAGCCACGGTCATACCTGCTGCCTCTGTCCAGAGTGCCAGC[GA]GCATCATCATTAAAGCTGCCAATGCTATACAGGAGCAAGCTG
6334 IS [GA] TCATGATGCCAGCATCCA ctg22fin3 22
6335 I A CCTCACAACCCCCCAAAAAGGTGTCTCGAT
6335 P G A ATGACGTGGCAGACGTCCAGGTGGTGTCG
6335 P A A CGCGCCGAGGATCCAGGTGGTGTCG
6335 T G A AGGACGACACCACCTGGACTCGAGACACCTTTTTGGGGGGTTGTGAGGCT
6335 T A A AGGACGACACCACCTGGATTCGAGACACCTTTTTGGGGGGTTGTGAGGCT

FIGURE 129B

				CAAATAAAGAAGGCACTAATCAATGCAGCAGCCTCACAACCCCCCAAAAAGGTGTCTCGA[GA]TCCAGGTGGTGTCGTCCTTGCAGAATTCTGTGGTGGAAACTTT				
6335	IS	[GA]		CAACAAGGTGCTGAGCA	ctg22fin3	22		
6354	I		A	GCTTGGTAGAGGACCAGACCCTGTGGTCT				
6354	P	G	A	ATGACGTGGCAGACGGACCCCATCCGCY				
6354	P	A	A	CGCGCCGAGGAGACCCCATCCGCY				
6354	T	G	A	TGGTGCGGATGGGGTCCGACCACAGGGTCTGGTCCTCTACCAAGCCC				
6354	T	A	A	TGGTGCGGATGGGGTCTGACCACAGGGTCTGGTCCTCTACCAAGCCC				
				GTTCAAGTATGTCCTGGTCAATATGTCCACGGGCTTGGTAGAGGACCAGACCCTGTGGTC[GA]GACCCCATCCGCACCAACCAGCGTAAGTGGTGGGCAGTGGT				
6354	IS	[GA]		GGTGGTGATGCTCAAGGGG	ctg22fin6	22		
6457	I		S	CCTGGGCATTCGCAGCCTCCTCCTTTT				
6457	P	C	S	ATGACGTGGCAGACGGCTCGGTTTGCCY				
6457	P	T	S	CGCGCCGAGGAGCTCGGTTTGCCAY				
6457	T	C	S	GCTGTGGCAAACCGAGCCAAAGGAGGAGGCTGCGAATGCCCAGGTG				
6457	T	T	S	GCTGTGGCAAACCGAGCTAAAGGAGGAGGCTGCGAATGCCCAGGTG				
				ACCGCAGAAGCTTTTGATCTTGGATGCACGCTCCTATGCAGCTGCTGTGGCAAACCGAGC[CT]AAAGGAGGAGGCTGCGAATGCCCAGGTGAGGTGTATGGTGC				
6457	IS	[CT]		TTTGTTCCCCATACTTTCT	ctg22fin4	22		
4063	I		S	CGGGGGATAAACACATCAGAGGTGACCCCAT				
4063	P	G	S	CGCGCCGAGGCATGCTCCCTGCGTG				
4063	P	T	S	CGCGCCGAGGAATGCTCCCTGCGTGT				
4063	T	G	S	GCAAACACGCAGGGAGCATGTGGGGTCACCTCTGATGTGTTTATCCCCCGGC				
4063	T	T	S	GCAAACACGCAGGGAGCATTTGGGGTCACCTCTGATGTGTTTATCCCCCGGC				
4063	IS	[GT]		GGGTCTGAGCTGGACTGTGGTCTGTCACTCTGCAAACACGCAGGGAGCAT[GT]TGGGGTCACCTCTGATGTGTTTATCCCCCGGCTGCCTTCAGCAAGGCTGG	ctg22fin4	22		
4064	I		S	GGGCTTGGCTCTGTGCAGGGTGAATGT				
4064	P	G	S	CGCGCCGAGGCACGCTACAGCTGCAC				
4064	P	C	S	CGCGCCGAGGGACGCTACAGCTGCAC				
4064	T	G	S	GGGAGTGCAGCTGTAGCGTGCATTCACCCTGCACAGAGCCAAGCCCTA				
4064	T	C	S	GGGAGTGCAGCTGTAGCGTCCATTCACCCTGCACAGAGCCAAGCCCTA				
4064	IS	[GC]		GATGCCTCCCTGTTCCCTCGGGGTGTTGCCTGGGAGTGCAGCTGTAGCGT[GC]CATTCACCCTGCACAGAGCCAAGCCCTATGGCCGGAGAGCCAGTCAAGGG	ctg22fin4	22		
4065	I		A	GCAGCAGATATAGCACCAGGGCAGACACTCT				
4065	P	A	A	CGCGCCGAGGACCCTCAGGAATGACTCC				
4065	P	G	A	CGCGCCGAGGGCCCTCAGGAATGACTCC				
4065	T	A	A	TGGAGGAGTCATTCCTGAGGGCGAGTGTCTGCCCTGGTGCTATATCTGCTGCCT				
4065	T	G	A	TGGAGGAGTCATTCCTGAGGGCGAGTGTCTGCCCTGGTGCTATATCTGCTGCCT				
4065	IS	[AG]		GTCACACCCAGTGTGAAAAGGCAGCAGATATAGCACCAGGGCAGACACTC[AG]CCCTCAGGAATGACTCCTCCACATCCGAGGCCTCTAGGCCCAGTACACAC	MULTIPLE	MULTIPLE	MULTIPLE SHORT GENE NAMES	
4069	I		S	CCAGATAGTCTTCCTTGAAGTTTTCAGTTAAAGAAATTTCTTGTTAACAAT				
4069	P	T	S	CGCGCCGAGGATAATGTAGTCATAGAAGAAAACACTTAAAAC				
4069	P	C	S	CGCGCCGAGGGTAATGTAGTCATAGAAGAAAACACTTAAAA				
4069	T	T	S	TAAAGTTTTAAGTGTTTTCTTCTATGACTACATTATTTGTTAACAAGAAATTTCTTTAACTGAAAACTTCAAGGAAGACTATCTGG				
4069	T	C	S	TAAAGTTTTAAGTGTTTTCTTCTATGACTACATTACTTGTTAACAAGAAATTTCTTTAACTGAAAACTTCAAGGAAGACTATCTGG				
4069	IS	[TC]		ATTAGCTTTATTCAATAAAGTTTTAAGTGTTTTCTTCTATGACTACATTA[TC]TTGTTAACAAGAAATTTCTTTAACTGAAAACTTCAAGGAAGACTATCTGG	MULTIPLE	MULTIPLE		
4070	I		S	GGCTGATGACACAATGGGGAAACATAAACTGCTGACC				
4070	P	A	S	CGCGCCGAGGTCTGGACTTCAGCAGTACA				
4070	P	C	S	CGCGCCGAGGGCTGGACTTCAGCAGTAC				
4070	T	A	S	TTACTGTACTGCTGAAGTCCAGAGTCAGCAGTTTATGTTTCCCCATTGTGTCATCAGCCCA				
4070	T	C	S	TTACTGTACTGCTGAAGTCCAGCGTCAGCAGTTTATGTTTCCCCATTGTGTCATCAGCCCA				
4070	IS	[AC]		ACTTTTTCAATGGCCTTGCACATGGCTGTTACTGTACTGCTGAAGTCCAG[AC]GTCAGCAGTTTATGTTTCCCCATTGTGTCATCAGCCCAATGCAAAGTACC	ctg22fin1	22		
4071	I		S	GCCACCAACCTCAGGGGAAATATACTTGTAATGAAATGCATGT				
4071	P	C	S	CGCGCCGAGGGTACAAACGCGCATTCC				
4071	P	T	S	CGCGCCGAGGATACAAACGCGCATTCCC				
4071	T	C	S	AGCAGGGAATGCGCGTTTGTACCATGCATTTCATTACAAGTATATTTCCCCTGAGGTTGGTGGCCT				
4071	T	T	S	AGCAGGGAATGCGCGTTTGTATCATGCATTTCATTACAAGTATATTTCCCCTGAGGTTGGTGGCCT				
4071	IS	[CT]		ACCAGCCACCAACCTCACCCACTCAAGGAAGCAGGGAATGCGCGTTTGTA[CT]CATGCATTTCATTACAAGTATATTTCCCCTGAGGTTGGTGGCCTATGTTT	ctg22fin1	22		
4083	I		A	GCCCCAGCTCCCGAGTTCCTGAATGAAAT				
4083	P	C	A	CGCGCCGAGGCAGTGAAAACACGAACCCA				
4083	P	A	A	CGCGCCGAGGAAGTGAAAACACGAACCCAG				
4083	T	C	A	ACTCCTGGGTTCGTGTTTTCACTGTTTCATTCAGGAACTCGGGAGCTGGGGCCA				
4083	T	A	A	ACTCCTGGGTTCGTGTTTTCACTTTTTCATTCAGGAACTCGGGAGCTGGGGCCA				
4083	IS	[CA]		AACCTGAAGGGCCAAGGGAGTGGCCCCAGCTCCCGAGTTCCTGAATGAAA[CA]AGTGAAAACACGAACCCAGGAGTGTGGACCAGTGCTGACGCTGACATGCA	MULTIPLE	22		
4090	I		S	CATGTCACACCTGCCAGCCCCATCCA				
4090	P	INS	S	CGCGCCGAGGCTCTGTGACACCCCTTCC				
4090	P	DEL	S	CGCGCCGAGGCCTGTGACACCCCTTCC				
4090	T	INS	S	TGGCTGGAAGGGGTGTCACAGAGGGATGGGGCTGGCAGGTGTGACATGTG				
4090	T	DEL	S	TGGCTGGAAGGGGTGTCACAGGGGATGGGGCTGGCAGGTGTGACATGTG				
4090	IS	[A-]		GGGCTGGCAGGGCTCTGAGGAGGGCACAGTGGCTGGAAGGGGTGTCACAG[A-]GGGATGGGGCTGGCAGGTGTGACATGTGTCCCTTTCCCTCCCCGGCTGCT	ctg22fin4	22		
4092	I		S	GGAGCTACTGTAGCAATGGGGGATGGGAAGT				
4092	P	T	S	CGCGCCGAGGATTAAACCCTCCTGCAGG				
4092	P	G	S	CGCGCCGAGGCTTAAACCCTCCTGCAGG				
4092	T	T	S	AGAGCCTGCAGGAGGGTTTAATCTTCCCATCCCCCATTGCTACAGTAGCTCCCC				
4092	T	G	S	AGAGCCTGCAGGAGGGTTTAAGCTTCCCATCCCCCATTGCTACAGTAGCTCCCC				
4092	IS	[TG]		CCTTGAGGAGGGGAATGGGCTCCATCCTGAGAGCCTGCAGGAGGGTTTAA[TG]CTTCCCATCCCCCATTGCTACAGTAGCTCCCCCAGCTTTTCATTCCATAT	ctg22fin4	22		
4103	I		A	CTCACCTTATGAACTGTTAGGTTTCATGGCAGCACATTCATTA				
4103	P	T	A	CGCGCCGAGGTGTCTGTGCTTGCTGTTTAC				
4103	P	C	A	CGCGCCGAGGCGTCTGTGCTTGCTGTT				
4103	T	T	A	AGAGGTAAACAGCAAGCACAGACAAATGAATGTGCTGCCATGAAACCTAACAGTTCATAAGGTGAGGA				
4103	T	C	A	AGAGGTAAACAGCAAGCACAGACGAATGAATGTGCTGCCATGAAACCTAACAGTTCATAAGGTGAGGA				
4103	IS	[TC]		AATGGATCCTCACCTTATGAACTGTTAGGTTTCATGGCAGCACATTCATT[TC]GTCTGTGCTTGCTGTTTACCTCTGGTATCAAGACATCTCTCTGGGCATGG	ctg22fin4	22		
4111	I		S	CCCAGGAGATATCCAAAGAAAAAAGGTGTGTGAGACACTCAT				
4111	P	C	S	CGCGCCGAGGGTAACGGCAAGAGGATGTT				
4111	P	T	S	CGCGCCGAGGATAACGGCAAGAGGATGTTG				
4111	T	C	S	CTGACAACATCCTCTTGCCGTTACTGAGTGTCTCACACACCTTTTTTCTTTGGATATCTCCTGGGAC				
4111	T	T	S	CTGACAACATCCTCTTGCCGTTATTGAGTGTCTCACACACCTTTTTTCTTTGGATATCTCCTGGGAC				
4111	IS	[CT]		CCCAAAGCTTGTTCCTGTGATATAAACCTGACAACATCCTCTTGCCGTTA[CT]TGAGTGTCTCACACACCTTTTTTCTTTGGATATCTCCTGGGACTCAGGAC	ctg22fin4	22		
4121	I		A	GCCAAGCCTCGTGTTATGGGTGTTTCCCG				
4121	P	INS	A	CGCGCCGAGGACTCAGGAGGAAGTGGAG				
4121	P	DEL	A	CGCGCCGAGGAGGAGGAAGTGGAGTGC				
4121	T	INS	A	CTTGTGCACTCCACTTCCTCCTGAGTGGGAAACACCCATAACACGAGGCTTGGCCG				
4121	T	DEL	A	CTTGTGCACTCCACTTCCTCCTGGGAAACACCCATAACACGAGGCTTGGCCG				

FIGURE 129B

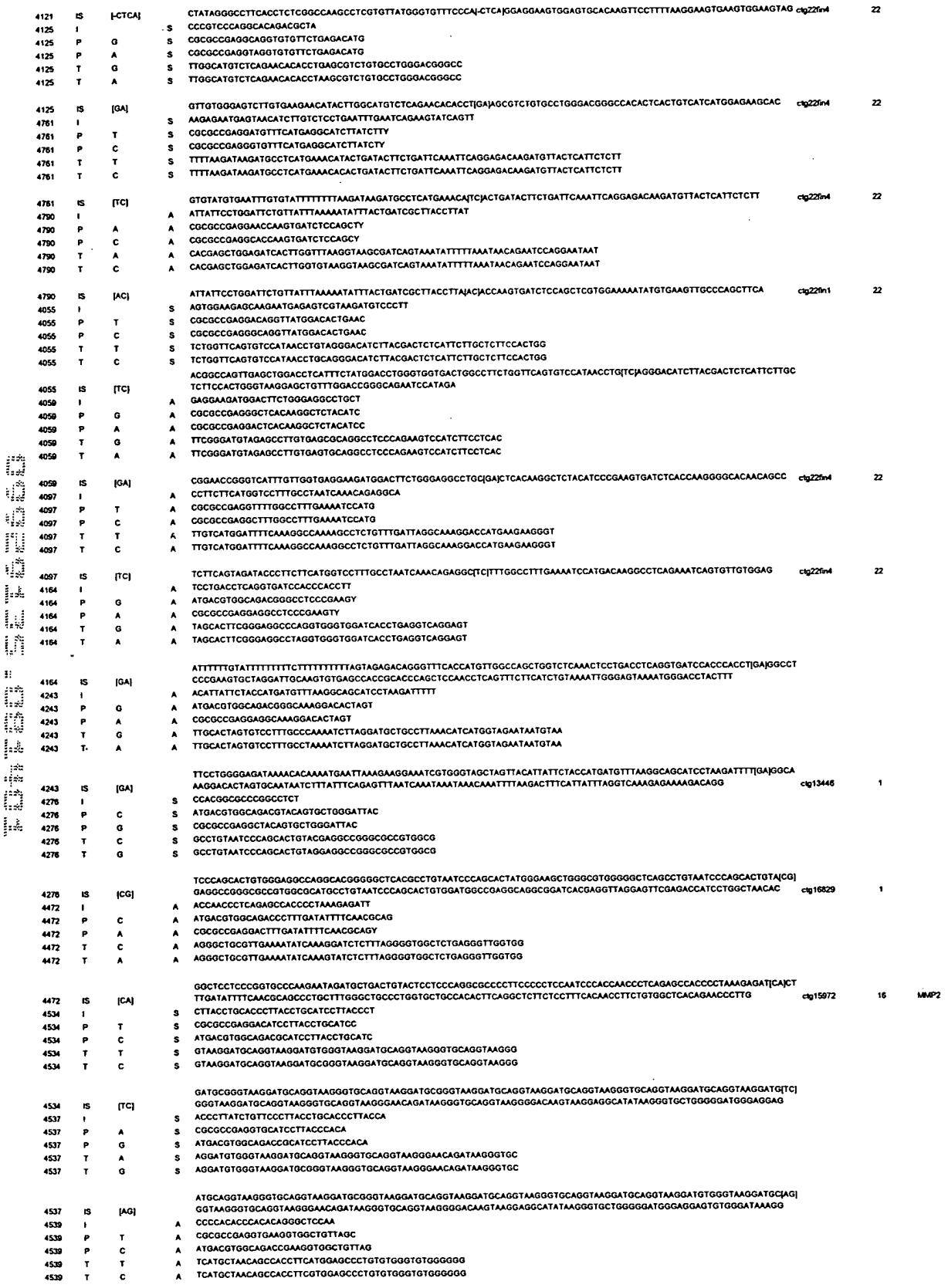

4121 IS [-CTCA] CTATAGGGCCTTCACCTCTCGGCCAAGCCTCGTGTTATGGGTGTTTCCCA[-CTCA]GGAGGAAGTGGAGTGCACAAGTTCCTTTTAAGGAAGTGAAGTGGAAGTAG ctg22fin4 22
4125 I S CCCGTCCCAGGCACAGACGCTA
4125 P G S CGCGCCGAGGCAGGTGTGTTCTGAGACATG
4125 P A S CGCGCCGAGGTAGGTGTGTTCTGAGACATG
4125 T G S TTGGCATGTCTCAGAACACACCTGAGCGTCTGTGCCTGGGACGGGCC
4125 T A S TTGGCATGTCTCAGAACACACCTAAGCGTCTGTGCCTGGGACGGGCC
4125 IS [GA] GTTGTGGGAGTCTTGTGAAGAACATACTTGGCATGTCTCAGAACACACCT[GA]AGCGTCTGTGCCTGGGACGGGCCACACTCACTGTCATCATGGAGAAGCAC ctg22fin4 22
4761 I S AAGAGAATGAGTAACATCTTGTCTCCTGAATTTGAATCAGAAGTATCAGTT
4761 P T S CGCGCCGAGGATGTTTCATGAGGCATCTTATCTTY
4761 P C S CGCGCCGAGGGTGTTTCATGAGGCATCTTATCTY
4761 T T S TTTTAAGATAAGATGCCTCATGAAACATACTGATACTTCTGATTCAAATTCAGGAGACAAGATGTTACTCATTCTCTT
4761 T C S TTTTAAGATAAGATGCCTCATGAAACACACTGATACTTCTGATTCAAATTCAGGAGACAAGATGTTACTCATTCTCTT
4781 IS [TC] GTGTATGTGAATTTGTGTATTTTTTTTAAGATAAGATGCCTCATGAAACA[TC]ACTGATACTTCTGATTCAAATTCAGGAGACAAGATGTTACTCATTCTCTT ctg22fin4 22
4790 I A ATTATTCCTGGATTCTGTTATTTAAAAATATTTACTGATCGCTTACCTTAT
4790 P A A CGCGCCGAGGAACCAAGTGATCTCCAGCTY
4790 P C A CGCGCCGAGGCACCAAGTGATCTCCAGCY
4790 T A A CACGAGCTGGAGATCACTTGGTTTAAGGTAAGCGATCAGTAAATATTTTTAAATAACAGAATCCAGGAATAAT
4790 T C A CACGAGCTGGAGATCACTTGGTGTAAGGTAAGCGATCAGTAAATATTTTTAAATAACAGAATCCAGGAATAAT
4790 IS [AC] ATTATTCCTGGATTCTGTTATTTAAAAATATTTACTGATCGCTTACCTTA[AC]ACCAAGTGATCTCCAGCTCGTGGAAAAATATGTGAAGTTGCCCAGCTTCA ctg22fin1 22
4055 I S AGTGGAAGAGCAAGAATGAGAGTCGTAAGATGTCCCTT
4055 P T S CGCGCCGAGGACAGGTTATGGACACTGAAC
4055 P C S CGCGCCGAGGGCAGGTTATGGACACTGAAC
4055 T T S TCTGGTTCAGTGTCCATAACCTGTAGGGACATCTTACGACTCTCATTCTTGCTCTTCCACTGG
4055 T C S TCTGGTTCAGTGTCCATAACCTGCAGGGACATCTTACGACTCTCATTCTTGCTCTTCCACTGG
4055 IS [TC] ACGGCCAGTTGAGCTGGACCTCATTTCTATGGACCTGGGTGGTGACTGGCCTTCTGGTTCAGTGTCCATAACCTG[TC]AGGGACATCTTACGACTCTCATTCTTGC TCTTCCACTGGGTAAGGAGCTGTTTGGACCGGGCAGAATCCATAGA
4059 I A GAGGAAGATGGACTTCTGGGAGGCCTGCT
4059 P G A CGCGCCGAGGGCTCACAAGGCTCTACATC
4059 P A A CGCGCCGAGGACTCACAAGGCTCTACATCC
4059 T G A TTCGGGATGTAGAGCCTTGTGAGCGCAGGCCTCCCAGAAGTCCATCTTCCTCAC
4059 T A A TTCGGGATGTAGAGCCTTGTGAGTGCAGGCCTCCCAGAAGTCCATCTTCCTCAC
4059 IS [GA] CGGAACCGGGTCATTTGTTGGTGAGGAAGATGGACTTCTGGGAGGCCTGC[GA]CTCACAAGGCTCTACATCCCGAAGTGATCTCACCAAGGGGCACAACAGCC ctg22fin4 22
4097 I A CCTTCTTCATGGTCCTTTGCCTAATCAAACAGAGGCA
4097 P T A CGCGCCGAGGTTTTGGCCTTTGAAAATCCATG
4097 P C A CGCGCCGAGGCTTTGGCCTTTGAAAATCCATG
4097 T T A TTGTCATGGATTTTCAAAGGCCAAAAGCCTCTGTTTGATTAGGCAAAGGACCATGAAGAAGGGT
4097 T C A TTGTCATGGATTTTCAAAGGCCAAAGGCCTCTGTTTGATTAGGCAAAGGACCATGAAGAAGGGT
4097 IS [TC] TCTTCAGTAGATACCCTTCTTCATGGTCCTTTGCCTAATCAAACAGAGGC[TC]TTTGGCCTTTGAAAATCCATGACAAGGCCTCAGAAATCAGTGTTGTGGAG ctg22fin4 22
4164 I A TCCTGACCTCAGGTGATCCACCCACCTT
4164 P G A ATGACGTGGCAGACGGGCCTCCCGAAGY
4164 P A A CGCGCCGAGGAGGCCTCCCGAAGTY
4164 T G A TAGCACTTCGGGAGGCCCAGGTGGGTGGATCACCTGAGGTCAGGAGT
4164 T A A TAGCACTTCGGGAGGCCTAGGTGGGTGGATCACCTGAGGTCAGGAGT
4164 IS [GA] ATTTTTTGTATTTTTTTTTCTTTTTTTTTTAGTAGAGACAGGGTTTCACCATGTTGGCCAGCTGGTCTCAAACTCCTGACCTCAGGTGATCCACCCACCT[GA]GGCCT CCCGAAGTGCTAGGATTGCAAGTGTGAGCCACCGCACCCAGCTCCAACCTCAGTTTCTTCATCTGTAAAATTGGGAGTAAAATGGGACCTACTTT
4243 I A ACATTATTCTACCATGATGTTTAAGGCAGCATCCTAAGATTTTT
4243 P G A ATGACGTGGCAGACGGGCAAAGGACACTAGT
4243 P A A CGCGCCGAGGAGGCAAAGGACACTAGT
4243 T G A TTGCACTAGTGTCCTTTGCCCAAAATCTTAGGATGCTGCCTTAAACATCATGGTAGAATAATGTAA
4243 T- A A TTGCACTAGTGTCCTTTGCCTAAAATCTTAGGATGCTGCCTTAAACATCATGGTAGAATAATGTAA
4243 IS [GA] TTCCTGGGGAGATAAAACACAAAATGAATTAAAGAAGGAAATCGTGGGTAGCTAGTTACATTATTCTACCATGATGTTTAAGGCAGCATCCTAAGATTTT[GA]GGCA AAGGACACTAGTGCAATAATCTTTATTTCAGAGTTTAATCAAATAAATAAACAAATTTTAAGACTTTCATTATTTAGGTCAAAGAGAAAAGACAGG ctg13446 1
4276 I S CCACGGCGCCCGGCCTCT
4276 P C S ATGACGTGGCAGACGTACAGTGCTGGGATTAC
4276 P G S CGCGCCGAGGCTACAGTGCTGGGATTAC
4276 T C S GCCTGTAATCCCAGCACTGTACGAGGCCGGGCGCCGTGGCG
4276 T G S GCCTGTAATCCCAGCACTGTAGGAGGCCGGGCGCCGTGGCG
4276 IS [CG] TCCCAGCACTGTGGGAGGCCAGGCACGGGGGCTCACGCCTGTAATCCCAGCACTATGGGAAGCTGGGCGTGGGGGCTCAGCCTGTAATCCCAGCACTGTA[CG] GAGGCCGGGCGCCGTGGCGCATGCCTGTAATCCCAGCACTGTGGATGGCCGAGGCAGGCGGATCACGAGGTTAGGAGTTCGAGACCATCCTGGCTAACAC ctg16829 1
4472 I A ACCAACCCTCAGAGCCACCCCTAAAGAGATT
4472 P C A ATGACGTGGCAGACCCTTTGATATTTTCAACGCAG
4472 P A A CGCGCCGAGGACTTTGATATTTTCAACGCAGY
4472 T C A AGGGCTGCGTTGAAAATATCAAAGGATCTCTTTAGGGGTGGCTCTGAGGGTTGGTGG
4472 T A A AGGGCTGCGTTGAAAATATCAAAGTATCTCTTTAGGGGTGGCTCTGAGGGTTGGTGG
4472 IS [CA] GGCTCCTCCCGGTGCCCAAGAATAGATGCTGACTGTACTCCTCCCAGGCGCCCCTTCCCCCTCCAATCCCACCAACCCTCAGAGCCACCCCTAAAGAGAT[CA]CT TTGATATTTTCAACGCAGCCCTGCTTTGGGCTGCCCTGGTGCTGCCACACTTCAGGCTCTTCTCCTTTCACAACCTTCTGTGGCTCACAGAACCCTTG ctg15972 16 MMP2
4534 I S CTTACCTGCACCCTTACCTGCATCCTTACCCT
4534 P T S CGCGCCGAGGACATCCTTACCTGCATCC
4534 P C S ATGACGTGGCAGACGCATCCTTACCTGCATC
4534 T T S GTAAGGATGCAGGTAAGGATGTGGGTAAGGATGCAGGTAAGGGTGCAGGTAAGGG
4534 T C S GTAAGGATGCAGGTAAGGATGCGGGTAAGGATGCAGGTAAGGGTGCAGGTAAGGG
4534 IS [TC] GATGCGGGTAAGGATGCAGGTAAGGGTGCAGGTAAGGATGCGGGTAAGGATGCAGGTAAGGATGCAGGTAAGGATGCAGGTAAGGATG[TC] GGGTAAGGATGCAGGTAAGGGTGCAGGTAAGGGAACAGATAAGGGTGCAGGTAAGGGACAAGTAAGGAGGCATATAAGGGTGCTGGGGGATGGGAGGAG
4537 I S ACCCTTATCTGTTCCCTTACCTGCACCCTTACCA
4537 P A S CGCGCCGAGGTGCATCCTTACCCACA
4537 P G S ATGACGTGGCAGACCGCATCCTTACCCACA
4537 T A S AGGATGTGGGTAAGGATGCAGGTAAGGGTGCAGGTAAGGGAACAGATAAGGGTGC
4537 T G S AGGATGTGGGTAAGGATGCGGGTAAGGGTGCAGGTAAGGGAACAGATAAGGGTGC
4537 IS [AG] ATGCAGGTAAGGGTGCAGGTAAGGATGCGGGTAAGGATGCAGGTAAGGATGCAGGTAAGGGTGCAGGTAAGGATGCAGGTAAGGATGTGGGTAAGGATGC[AG] GGTAAGGGTGCAGGTAAGGGAACAGATAAGGGTGCAGGTAAGGGGACAAGTAAGGAGGCATATAAGGGTGCTGGGGGATGGGAGGAGTGTGGGATAAAGG
4539 I A CCCCACACCCACACAGGGCTCCAA
4539 P T A CGCGCCGAGGTGAAGGTGGCTGTTAGC
4539 P C A ATGACGTGGCAGACCGAAGGTGGCTGTTAG
4539 T T A TCATGCTAACAGCCACCTTCATGGAGCCCTGTGTGGGTGTGGGGGG
4539 T C A TCATGCTAACAGCCACCTTCGTGGAGCCCTGTGTGGGTGTGGGGGG

FIGURE 129B

				CTCTGGGCTATCAGCTAGTTGTCCTCTCACATGGCACATAGCTGTGACAAGATGAAATGATCCCTGGCTTGTGAACCCCCCACACCCACACAGGGCTCCA[TC]GA			
4539	IS	[TC]		AGGTGGCTGTTAGCATGATTAATAACATGGCGTTTCCATGGCAGACATCAGGTGAAGGAGCCATTATTTTTGCCTTTTTCATCACTGAAACACATCTC	ctg17253	1	
4559	I		A	CTGCTCCTTTGCACCCCTCCCAAACCA			
4559	P	C	A	ATGACGTGGCAGACCCAACCCTTAATCCTCAC			
4559	P	T	A	CGCGCCGAGGTCAACCCTTAATCCTCACA			
4559	T	C	A	AAGCTGTGAGGATTAAGGGTTGGGGTTTGGGAGGGGTGCAAAGGAGCAGAC			
4559	T	T	A	AAGCTGTGAGGATTAAGGGTTGAGGTTTGGGAGGGGTGCAAAGGAGCAGAC			
				AAGTGGCCCTGACTGCCAAGATCATCACCATGGATGGGGGCCGGGACCAGGGGGGCCACTGGAGCTGTAGTTGTCTGCTCCTTTGCACCCCTCCCAAACC[CT]C			
4559	IS	[CT]		AACCCTTAATCCTCACAGCTTTGCTCTAATCCTGTGGGGCCTGATGCTCTTATCTCTGCCTGCAGAGACTGACCAGGGAAGCACCCCTTCACCCCCTCC	ctg17328	12	
4568	I		A	GCGGATTTGGTGAAGTCGGCCTCAAGTCCT			
4568	P	A	A	CGCGCCGAGGAGGAGGTCTGTCTTCG			
4568	P	G	A	ATGACGTGGCAGACGGGAGGTCTGTCTTCG			
4568	T	A	A	CCGGCGAAGACAGACCTCCTGGACTTGAGGCCGACTTCACCAAATCCGCCC			
4568	T	G	A	CCGGCGAAGACAGACCTCCCGGACTTGAGGCCGACTTCACCAAATCCGCCC			
				TGCTAGGGACCGCAGTCCCTCAGCCGCAGCTGGGTCTGTCCGCCCCGCCTTTGCCCTCGCCTTTTCCCGGGGCGGATTTGGTGAAGTCGGCCTCAAGTCC[AG]			
4568	IS	[AG]		GGAGGTCTGTCTTCGCCGGGCCAGCTCTCGCGGAACTGGGGGGTAGAGAGCAAAGGGAGAGATTCGTGGAAGGGAAGGGAGGTAGGGGTGGCGCAAACGC	ctg16306	4	NPY2R
4854	I		S	CTGCCCTCCTCCCATTTGCAGATGCCT			
4854	P	C	S	ATGACGTGGCAGACGTCGTAGAATCGCAGC			
4854	P	T	S	CGCGCCGAGGATCGTAGAATCGCAGCA			
4854	T	C	S	CACCTGCTGCGATTCTACGACGGCATCTGCAAATGGGAGGAGGGCAGTC			
4854	T	T	S	CACCTGCTGCGATTCTACGATGGCATCTGCAAATGGGAGGAGGGCAGTC			
				GAGCCAAGGTTCCGCCCTCCAGGACCCTGAGTGCTTCGCCCACCTGCTGCGATTCTACGA[CT]GGCATCTGCAAATGGGAGGAGGGCAGTCCCACGCCTGTGCT			
4854	IS	[CT]		GCACGTGGGCTGGGCCACC	ctg17042	11	MEN1
4905	I		S	GGCTTTATCACTCAGTTCTGAAATAGGCCAAATGCATGGT			
4905	P	T	S	CGCGCCGAGGAACACATGAACACCAGAC			
4905	P	C	S	ATGACGTGGCAGACGACACATGAACACCAGAC			
4905	T	T	S	CTCTGTCTGGTGTTCATGTGTTCCATGCATTTGGCCTATTTCAGAACTGAGTGATAAAGCCGT			
4905	T	C	S	CTCTGTCTGGTGTTCATGTGTCCCATGCATTTGGCCTATTTCAGAACTGAGTGATAAAGCCGT			
				AGCTCATCACTGATGAGTTTGTGAAGCAGAAGTAAGTATCTCTGTCTGGTGTTCATGTGT[TC]CCATGCATTTGGCCTATTTCAGAACTGAGTGATAAAGCCGTGG			
4905	IS	[TC]		TGCATGGATGCATGTGT	ctg14153	X	
4972	I		S	CCAAGCAGTTCCAAGTAAGGGAAAAGCTGCCACT			
4972	P	C	S	ATGACGTGGCAGACGCCTCCCGAACAAGA			
4972	P	T	S	CGCGCCGAGGACCTCCCGAACAAGAG			
4972	T	C	S	TGTCCTCTTGTTCGGGAGGCGTGGCAGCTTTTCCCTTACTTGGAACTGCTTGGGT			
4972	T	T	S	TGTCCTCTTGTTCGGGAGGTGTGGCAGCTTTTCCCTTACTTGGAACTGCTTGGGT			
				CCCCCTTCAGGTAGGGCCAGGGTCGTTTTGGTCTGGCCTGCTGTCCTCTTGTTCGGGAGG[CT]GTGGCAGCTTTTCCCTTACTTGGAACTGCTTGGGTCACAGC			
4972	IS	[CT]		CTCGTTTTGTTCCCAGTAT	ctg18251	1	
5104	I		S	CTCCAAGACGCTGAAACCTTCCTTCGGGTT			
5104	P	C	S	ATGACGTGGCAGACGTGTTGAAACTGCATCCC			
5104	P	G	S	CGCGCCGAGGCTGTTGAAACTGCATCCC			
5104	T	C	S	GCTGGGGATGCAGTTTCAACACACCCGAAGGAAGGTTTCAGCGTCTTGGAGAG			
5104	T	G	S	GCTGGGGATGCAGTTTCAACAGACCCGAAGGAAGGTTTCAGCGTCTTGGAGAG			
				GGGACACATGCCCCTTCTCTTCTTGCTCCGACATGATGGTGCTGGGGATGCAGTTTCAACA[CG]ACCCGAAGGAAGGTTTCAGCGTCTTGGAGAGCTGGCCGGGA			
5104	IS	[CG]		AGGTTACCGGGCAGGAGAG	ctg16114	X	
5123	I		A	TGCTTGAAGCTCAGAGAGCAGCTCTGGATGAGT			
5123	P	A	A	CGCGCCGAGGATGGTCCAAGGCCTG			
5123	P	C	A	ATGACGTGGCAGACCTGGTCCAAGGCCT			
5123	T	A	A	GGAGCAGGCCTTGGACCATCTCATCCAGAGCTGCTCTCTGAGCTTCAAGCACC			
5123	T	C	A	GGAGCAGGCCTTGGACCAGCTCATCCAGAGCTGCTCTCTGAGCTTCAAGCACC			
				TCTCTTGTTGGCCTTGTCCTCAGTCAGGTGCTTGAAGCTCAGAGAGCAGCTCTGGATGAG[AC]TGGTCCAAGGCCTGCTCCGTGTTCATCAGCTCCTTCAGCTCC			
5123	IS	[AC]		TGCCCCAGCTGTTGCTGC	ctg16574	1	
5131	I		S	CAGAATGGGCAGAGTGAGATTCTGCCTCAAAAAAATTTTAAAAAAAGAAAAGAAAAAA			
5131	P	A	S	CGCGCCGAGGTGAAAAGTTTCAATGGCTCT			
5131	P	G	S	ATGACGTGGCAGACCGAAAAGTTTCAATGGCTC			
5131	T	A	S	ACATAGAGCCATTGAAACTTTTCATTTTTCTTTTCTTTTTTTAAAATTTTTTTGAGGCAGAATCTCACTCTGCCCATTCTGTC			
5131	T	G	S	ACATAGAGCCATTGAAACTTTTCGTTTTTCTTTTCTTTTTTTAAAATTTTTTTGAGGCAGAATCTCACTCTGCCCATTCTGTC			
				CTTCTCTGAAGAAGGTGAGGAGGAAGGGGACAAGATGACATAGAGCCATTGAAACTTTT[CA]G]TTTTTCTTTTCTTTTTTTAAAATTTTTTTGAGGCAGAATCTCACT			
5131	IS	[AG]		CTGCCCATTCTGTCG			
5139	I		A	CGGGAAGCCCTGAAGAAAAAGTTTACGCGAGTT			
5139	P	C	A	ATGACGTGGCAGACCCATGATGCGGAGTC			
5139	P	A	A	CGCGCCGAGGACATGATGCGGAGTCC			
5139	T	C	A	CGGAGGACTCCGCATCATGGACTCGCGTAAACTTTTTCTTCAGGGCTTCCCGTT			
5139	T	A	A	CGGAGGACTCCGCATCATGTACTCGCGTAAACTTTTTCTTCAGGGCTTCCCGTT			
				CTATTTCCTGATCCCCAGAACCTATGAACGGGAAGCCCTGAAGAAAAAGTTTACGCGAGT[CA]CATGATGCGGAGTCCTCCGATGAAGACGGCTATGACTGGGGT			
5139	IS	[CA]		CCGGCCACTGACCTGTGA	ctg19	19	
5142	I		A	CCCAAAGTAACATCGCTTGTAAATTTCCTACCTTTGGACTTCAA			
5142	P	T	A	CGCGCCGAGGTCCATTATTCTGTCTTTCAACA			
5142	P	C	A	ATGACGTGGCAGACCCCATTATTCTGTCTTTCAAC			
5142	T	T	A	TGTCTGTTGAAAGACAGAATAATGGATGAAGTCCAAAGGTAGGAAATTTACAAGCGATGTTACTTTGGGAT			
5142	T	C	A	TGTCTGTTGAAAGACAGAATAATGGGTGAAGTCCAAAGGTAGGAAATTTACAAGCGATGTTACTTTGGGAT			
				CCTCCCATCCCCGTCATCCCAAAGTAACATCGCTTGTAAATTTCCTACCTTTGGACTTCA[TC]CCATTATTCTGTCTTTCAACAGACATTCACTGCTCCCCAACATTG			
5142	IS	[TC]		TGGCCGACATGGACG	ctg12325	11	
5145	I		A	TCCCCTCATCCTCTCTCAGGACCCCCT			
5145	P	G	A	ATGACGTGGCAGACGCCGGGGCTTTG			
5145	P	A	A	CGCGCCGAGGACCGGGGCTTTGG			
5145	T	G	A	AATGCCAAAGCCCCCGGCGGGGGTCCTGAGAGAGGATGAGGGGAAG			
5145	T	A	A	AATGCCAAAGCCCCGGTGGGGGTCCTGAGAGAGGATGAGGGGAAG			
				ACCCTTTACCCTGGGGGAAACAGCAGCTCTTCCTTCCCCTCATCCTCTCTCAGGACCCCC[GA]CCGGGGCTTTGGCATTGCGATCTCTGGAGGCCGAGACCGGC			
5145	IS	[GA]		CCGGTGGATCCATGGTTGT	ctg19	19	
5146	I		S	CTGACCAGTTCCAGAGGGGAGACACACTGAAAT			
5146	P	C	S	ATGACGTGGCAGACGCCATCACACCCTCG			
5146	P	T	S	CGCGCCGAGGACCATCACACCCTCG			
5146	T	C	S	CTGCCGAGGGTGTGATGGCTTTCAGTGTGTCTCCCCTCTGGAACTGGTCAGCC			
5146	T	T	S	CTGCCGAGGGTGTGATGGTTTTCAGTGTGTCTCCCCTCTGGAACTGGTCAGCC			
				CTCCTGTGTCTTGGTGCCTGTGCCCCTCTGCCCTGCCCCAGCCTGCCGAGGGTGTGATGG[CT]TTTCAGTGTGTCTCCCCTCTGGAACTGGTCAGCCCTCAAGG			
5146	IS	[CT]		CAGGGCTGACCCCCATCCC	ctg18911	9	
5158	I		A	GACCTGAGCCAGACATCACCCTGGCTT			
5158	P	A	A	CGCGCCGAGGACGGTGTTCCATGTCT			
5158	P	G	A	ATGACGTGGCAGACGCGGTGTTCCATGTC			
5158	T	A	A	TGTGAGACATGGAACACCGTAGCCAGGGTGATGTCTGGCTCAGGTCCT			
5158	T	G	A	TGTGAGACATGGAACACCGCAGCCAGGGTGATGTCTGGCTCAGGTCCT			
				TCTTGGTGGCATCTGTCCCTCACTAGCTACGGAGGACCTGAGCCAGACATCACCCTGGCT[AG]CGGTGTTCCATGTCTCACAGATAGCCCAGTTCAGGGAGGCG			
5158	IS	[AG]		ACATGCCCAAGAGTGCTCA	ctg22fin4	22	
5163	I		S	CCTGAGGGGTGAAACCTCCAACCCCAGA			
5163	P	G	S	ATGACGTGGCAGACCGAGGTCCTCTCCC			
5163	P	A	S	CGCGCCGAGGTGAGGTCCTCTCCCA			

FIGURE 129B

5163	T	G	S	ACTCTGGGAGAGGACCTCGCTGGGGTTGGAGGTTTCACCCCTCAGGGT			
5163	T	A	S	ACTCTGGGAGAGGACCTCACTGGGGTTGGAGGTTTCACCCCTCAGGGT			
5163	IS	[GA]		GGTCCTGTGGAACATCTTGAAGCCCCTCATCAGGTATGCGTCACTCTGGGAGAGGACCTC[GA]CTGGGGTTGGAGGTTTCACCCCTCAGGGTCCATGGACGGC CTTCCCTATCCACGCATCA	ctg22fin6	22	
5172	I		S	TCTAGAAGAGTGACACAGTAAATCTGTTTTCAGCCACCCACC			
5172	P	A	S	CGCGCCGAGGTATGCAGTCACAGGAACT			
5172	P	C	S	ATGACGTGGCAGACGATGCAGTCACAGGAAC			
5172	T	A	S	ATTAAGTTCCTGTGACTGCATAGTGGGTGGCTGAAAACAGATTTACTGTGTCACTCTTCTAGAGG			
5172	T	C	S	ATTAAGTTCCTGTGACTGCATCGTGGGTGGCTGAAAACAGATTTACTGTGTCACTCTTCTAGAGG			
5172	IS	[AC]		GACCATTCCTGGGGAAGGGATACACCCAGAACCACGTACATTAAGTTCCTGTGACTGCAT[AC]GTGGGTGGCTGAAAACAGATTTACTGTGTCACTCTTCTAGAGG CTAGCAGTCCAAAAGCA	ctg22fin6	22	
5185	I		S	CGGCCAGAGTCCAAGCTCCACCTCCTAC			
5185	P	A	S	CGCGCCGAGGTTCTCCTTCATCCCTCTC			
5185	P	C	S	ATGACGTGGCAGACGTCTCCTTCATCCCTCTC			
5185	T	A	S	GGTGGAGAGGGATGAAGGAGAATAGGAGGTGGAGCTTGGACTCTGGCCGGG			
5185	T	C	S	GGTGGAGAGGGATGAAGGAGACTAGGAGGTGGAGCTTGGACTCTGGCCGGG			
5185	IS	[AC]		CTTCCCCCAATCTCTGCCACAGCACAATTTTGGTGGGGAGGTGGAGAGGGATGAAGGAGA[AC]TAGGAGGTGGAGCTTGGACTCTGGCCGGGGGCGGCGGGGT GAGGGGGGGCAGCAGCTCGC			
5187	I		A	TGTGCGCTACCACGCCCAGCTAGTTTTTTT			
5187	P	G	A	ATGACGTGGCAGACGTATTTTTTATACAGACCGGGT			
5187	P	A	A	CGCGCCGAGGATATTTTTTATACAGACCGGGT			
5187	T	G	A	CGAAACCCGGTCTGTATAAAAAATACAAAAAACTAGCTGGGCGTGGTAGCGCACACC			
5187	T	A	A	CGAAACCCGGTCTGTATAAAAAATATAAAAAACTAGCTGGGCGTGGTAGCGCACACC			
5187	IS	[GA]		CGTCAGGCTCCTGAGTAGCTGGGACCACAGGTGTGCGCTACCACGCCCAGCTAGTTTTTT[GA]TATTTTTTATACAGACCGGGTTTCGCCATGTTGCCCAGGCTG GTCTCAAACTCCTGAGCT			
5188	I		S	TCCCTTCCTCTTTCCCACAGATGGGTTGACTTC			
5188	P	C	S	ATGACGTGGCAGACGTTTGTTCCAAAGTTTTCCAT			
5188	P	A	S	CGCGCCGAGGTTTTGTTCCAAAGTTTTCCATT			
5188	T	C	S	CAGAAATGGAAAACTTTGGAACAAACAAGTCAACCCATCTGTGGGAAAAGAGGAAGGGAAC			
5188	T	A	S	CAGAAATGGAAAACTTTGGAACAAAAAAGTCAACCCATCTGTGGGAAAAGAGGAAGGGAAC			
5188	IS	[CA]		CATCTTCAAAAGTGTGGCTCCAAGGTCATATGTGGCAGAAATGGAAAACTTTGGAACAAA[CA]AAGTCAACCCATCTGTGGGAAAAGAGGAAGGGAACACATGGCA ATCACCATATCAAGCTT	ctg15379	X	
5283	I		A	CCTTGGATGGGGCCTGGGGAGGACT			
5283	P	A	A	CGCGCCGAGGATAGATTTTGTCTGTCCCTG			
5283	P	G	A	ATGACGTGGCAGACGTAGATTTTGTCTGTCCCTG			
5283	T	A	A	GGTCCAGGGACAGACAAAATCTATGTCCTCCCCAGGCCCCATCCAAGGAC			
5283	T	G	A	GGTCCAGGGACAGACAAAATCTACGTCCTCCCCAGGCCCCATCCAAGGAC			
5283	IS	[AG]		ACTGCGATGGGACTCCTAGTGGAAAGGGATAGATGTCCTTGGATGGGGCCTGGGGAGGAC[AG]TAGATTTTGTCTGTCCCTGGACCTATTCTCTTGTTCATTGTT TCAAATGTTATTGATGTC	ctg15665	20	
5284	I		A	CGCTCACATGGCAATACAGGAGTGAGCCCT			
5284	P	G	A	ATGACGTGGCAGACGGACTTAACTTCCGTAATTCC			
5284	P	A	A	CGCGCCGAGGAGACTTAACTTCCGTAATTCC			
5284	T	G	A	TGGAGGAATTACGGAAGTTAAGTCCGGGCTCACTCCTGTATTGCCATGTGAGCGTT			
5284	T	A	A	TGGAGGAATTACGGAAGTTAAGTCTGGGCTCACTCCTGTATTGCCATGTGAGCGTT			
5284	IS	[GA]		CAAATAATTGAGTCAGAGCCTATTTACCAAACGCTCACATGGCAATACAGGAGTGAGCCC[GA]GACTTAACTTCCGTAATTCCTCCAAGAGGCAGAATAGAATCAA GCTTTTTCACGCTTACA	ctg13390	6	
5309	I		A	TGCTCTGTGTTTTTATAGCAGGAAGCCAGCCGT			
5309	P	A	A	CGCGCCGAGGAATCCACACCCTCTCCY			
5309	P	C	A	ATGACGTGGCAGACCATCCACACCCTCTCCY			
5309	T	A	A	ATGGGGAGAGGGTGTGGATTCGGCTGGCTTCCTGCTATAAAAACACAGAGCAGC			
5309	T	C	A	ATGGGGAGAGGGTGTGGATGCGGCTGGCTTCCTGCTATAAAAACACAGAGCAGC			
5309	IS	[AC]		TACCAGATCAACCAGGTAGAGGGTAGGCTGCTCTGTGTTTTTATAGCAGGAAGCCAGCCG[AC]ATCCACACCCTCTCCCCATTGGGGGCACCTGAATCTTGTCCC ATTCTCCCAGCTGAAACG	ctg14932	16	
5331	I		A	CTGTTCAGTGCCGACCTGCGCCAATT			
5331	P	G	A	ATGACGTGGCAGACGCCGCCATGCTCAY			
5331	P	C	A	CGCGCCGAGGCCCGCCATGCTCAY			
5331	T	G	A	CTCCTGAGCATGGCGGGCA[T]GGCGCAGGTCGGCACTGAACAGCA			
5331	T	C	A	CTCCTGAGCATGGCGGGATTGGCGCAGGTCGGCACTGAACAGCA			
5331	IS	[GC]		CTCCTCCCCACACAGACTCCACCCTCCTACAGGTGCTGTTCAGTGCCGACCTGCGCCAAT[GC]CCGCCATGCTCAGGAGCCACCAGCAAAGCGCAGAAAGGGTT CCAAAGGGCCGGAAGGCTA	ctg15945	3	OGG1
5334	I		S	CTCCTCCCCGTCCCAGGCCATCAT			
5334	P	C	S	ATGACGTGGCAGACGTTCCCATGTCCTCTGY			
5334	P	G	S	CGCGCCGAGGCTTCCCATGTCCTCTGCY			
5334	T	C	S	AGATGCAGAGGACATGGGAACTGATGGCCTGGGACGGGGAGGAGAA			
5334	T	G	S	AGATGCAGAGGACATGGGAAGTGATGGCCTGGGACGGGGAGGAGAA			
5334	IS	[CG]		GCTGGGGCAGAGCAGGGATGGACCTGGAGCTGTTCAGGGCAGATGCAGAGGACATGGGAA[CG]TGATGGCCTGGGACGGGGAGGAGAATGTGAGAGGCAGGC TGGCTCTCCAGCTCAGCATGA	ctg15296	11	
5335	I		A	CTCTCTGTGCTGCCTGGGCTGGTCTT			
5335	P	G	A	ATGACGTGGCAGACGGAACTCCTGGTCTCAGY			
5335	P	A	A	CGCGCCGAGGAGAACTCCTGGTCTCAGY			
5335	T	G	A	CCACCTGAGACCAGGAGTTCCAGACCAGCCCAGGCAGCACAGAGAGAC			
5335	T	A	A	CCACCTGAGACCAGGAGTTCTAGACCAGCCCAGGCAGCACAGAGAGAC			
5335	IS	[GA]		CTGGGTAATTTTTGTGTTTTTTGTAGAGATGGGGTCTCTCTGTGCTGCCTGGGCTGGTCT[GA]GAACTCCTGGTCTCAGGTGGTCCTCCTGTCTCAGCCTCCCAA AGTGCTTGGATTACAGAC	ctg16920	19	
5339	I		S	CAGGCTGGACCAAGCCTCCCCCT			
5339	P	C	S	ATGACGTGGCAGACGGACTCCACCAGCTG			
5339	P	T	S	CGCGCCGAGGAGACTCCACCAGCTG			
5339	T	C	S	GGTGCAGCTGGTGGAGTCCGGGGGAGGCTTGGTCCAGCCTGGG			
5339	T	T	S	GGTGCAGCTGGTGGAGTCTGGGGGAGGCTTGGTCCAGCCTGGG			
5339	IS	[CT]		TTCTGACCAGGGTGTCTCTGTGTTTGCAGGTGTCCAGTGTGAGGTGCAGCTGGTGGAGTC[CT]GGGGGAGGCTTGGTCCAGCCTGGGGGGTCCCTGAAACTCT CCTGTGCAGCCTCTGGGTTC	ctg17003	14	
5344	I		S	CAACAAGGAAAACCCAGCTCAGCCCCAAA			
5344	P	A	S	CGCGCCGAGGTTCCATGGTGAGTCCTC			
5344	P	G	S	ATGACGTGGCAGACCTCCATGGTGAGTCCT			
5344	T	A	S	CACAGAGGACTCACCATGGAATTGGGGCTGAGCTGGGTTTTCCTTGTTGCT			
5344	T	G	S	CACAGAGGACTCACCATGGAGTTGGGGCTGAGCTGGGTTTTCCTTGTTGCT			
5344	IS	[AG]		CTGGACTCCAAGGCCTTTCCACTTGGTGATCAGCACTGAGCACAGAGGACTCACCATGGA[AG]TTGGGGCTGAGCTGGGTTTTCCTTGTTGCTATTTTAGAAGGT GATTCATGGAAAACTAGG	ctg17003	14	
5368	I		S	CCAGCTCTCAGTCAGACCCTGGCCTA			
5368	P	A	S	CGCGCCGAGGTTTGTGGCTCTGACTTCT			
5368	P	G	S	ATGACGTGGCAGACCTTGTGGCTCTGACTTC			
5368	T	A	S	GGGGAGAAGTCAGAGCCACAAAAGGCCAGGGTCTGACTGAGAGCTGGGC			
5368	T	G	S	GGGGAGAAGTCAGAGCCACAAGAGGCCAGGGTCTGACTGAGAGCTGGGC			
5368	IS	[AG]		GAATCAGTGGATCCGCCAATCCTGAGGAGACACGGGGAGGGGGAGAAGTCAGAGCCACAA[AG]AGGCCAGGGTCTGACTGAGAGCTGGGCCCCAGGGATCTAT GAGGAAAGGGCTGGGGGCTC	ctg16920	19	
5375	I		A	TTCCTCATTCTAAAGCTGTTCTCTGCACAGTCCACGA			
5375	P	T	A	CGCGCCGAGGTACATCTATTTTCACCCTCCA			
5375	P	C	A	ATGACGTGGCAGACCACATCTATTTTCACCCTCC			
5375	T	T	A	GATATGGAGGGTGAAAATAGATGTACGTGGACTGTGCAGAGAACAGCTTTAGAATGAGGAAAT			

FIGURE 129B

5375	T	C	A	GATATGGAGGGTGAAAATAGATGTGCGTGGACTGTGCAGAGAACAGCTTTAGAATGAGGAAAT		
5375	IS	[TC]		AGAAATTAAAAAGATCCTGACAATTTCCTCATTCTAAAGCTGTTCTCTGCACAGTCCACG[TC]ACATCTATTTTCACCCTCCATATCCTCCTCTTGTGCTTCCTCCCA TGTGTCCCTCCACAG	ctg16687	15
5378	I		S	TAACAACAACAAAATTTAAAATACAATAAAAAAGAGAAAAAGAAAAAAAGGTTATCTAAAA		
5378	P	A	S	CGCGCCGAGGTAGATAGAAGGCTACATCATTTTT		
5378	P	G	S	ATGACGTGGCAGACCAGATAGAAGGCTACATCATTT		
5378	T	A	S	TTAGAAAAATGATGTAGCCTTCTATCTATTTAGATAACCTTTTTTTCTTTTTCTCTTTTTTATTGTATTTTAAATTTTGTTGTTGTTA		
5378	T	G	S	TTAGAAAAATGATGTAGCCTTCTATCTGTTTAGATAACCTTTTTTTCTTTTTCTCTTTTTTATTGTATTTTAAATTTTGTTGTTGTTA		
5378	IS	[AG]		GGAACATTGACTCCTTTCAGCATTGCTTTCCCTTTAGAAAAATGATGTAGCCTTCTATCT[AG]TTTAGATAACCTTTTTTTCTTTTTCTCTTTTTTATTGTATTTTAAAT TTTGTTGTTGTTA		
5386	I		S	GCACTTTGGGAGGACGAAAGAGGTGGTGGT		
5386	P	C	S	ATGACGTGGCAGACGGGTCAGGAGTTCAAGA		
5386	P	T	S	CGCGCCGAGGAGGTCAGGAGTTCAAGAC		
5386	T	C	S	GCTGGTCTTGAACTCCTGACCCCCACCACCTCTTTCGTCCTCCCAAAGTGCTG		
5386	T	T	S	GCTGGTCTTGAACTCCTGACCTCCACCACCTCTTTCGTCCTCCCAAAGTGCTG		
5386	IS	[CT]		ATATTTTTAGTAGAGATGGTGTTTCGCCATGTTGGCCAGGCTGGTCTTGAACTCCTGACC[CT]CCACCACCTCTTTCGTCCTCCCAAAGTGCTGGGATTACATGCA TGAACCACCGTGCCTGG	MULTIPLE	MULTIPLE
5392	I		A	CCTTGGGTCCCCTTACATGAGCAAGTCTCTCATCTATAAT		
5392	P	C	A	CGCGCCGAGGCAGGGATAGTAATAATTCATAACTAATAC		
5392	P	G	A	ATGACGTGGCAGACGAGGGATAGTAATAATTCATAACTAATAC		
5392	T	C	A	ATGAGTATTAGTTATGAATTATTACTATCCCTGTTATAGATGAGAGACTTGCTCATGTAAGGGGACCCAAGGGT		
5392	T	G	A	ATGAGTATTAGTTATGAATTATTACTATCCCTCTTATAGATGAGAGACTTGCTCATGTAAGGGGACCCAAGGGT		
5392	IS	[CG]		GGTTGCAAAGCCTGGTTTCACCCTTGGGTCCCCTTACATGAGCAAGTCTCTCATCTATAA[CG]AGGGATAGTAATAATTCATAACTAATACTCATAGCACTGTGTGA TGATTCTATAAAACCG	ctg14007	17
5458	I		S	CCTATAGAAACCCTTTTTGGATCCATACCCCTTTGAGTTTAGCTAA		
5458	P	A	S	CGCGCCGAGGTTCCGTATTCTCTAGTTTCTG		
5458	P	G	S	ATGACGTGGCAGACCTCCGTATTCTCTAGTTTCTG		
5458	T	A	S	CAGGCAGAAACTAGAGAATACGGAATAGCTAAACTCAAAGGGGTATGGATCCAAAAAGGGTTTCTATAGGCA		
5458	T	G	S	CAGGCAGAAACTAGAGAATACGGAGTAGCTAAACTCAAAGGGGTATGGATCCAAAAAGGGTTTCTATAGGCA		
5458	IS	[AG]		GACAGGGAATGGAGTGTGGGAAGGGTTTGATGGACTCAGGCAGAAACTAGAGAATACGGA[AG]TAGCTAAACTCAAAGGGGTATGGATCCAAAAAGGGTTTCTAT AGGCATGAGTAGCTAAGT	ctg22fin4	22
5461	I		S	CAGCCTCCCCCACTCTTCCTTCCTTCCA		
5461	P	G	S	ATGACGTGGCAGACCTCCCACCTTCCTCATT		
5461	P	A	S	CGCGCCGAGGTTCCCACCTTCCTCATT		
5461	T	G	S	GAGAAATGAGGAAGGTGGGAGGGAAGGAAGGAAGAGTGGGGGAGGCTGGA		
5461	T	A	S	GAGAAATGAGGAAGGTGGGAAGGAAGGAAGGAAGAGTGGGGGAGGCTGGA		
5461	IS	[GA]		CAGGGAGAGAAGAAAGGAGCAAAGGAGGGAGGAAGGGAGGGAGAAATGAGGAAGGTGGGA[GA]GGAAGGAAGGAAGAGTGGGGGAGGCTGGAAGATCCAGCC TGACACATGGAGCCTGTGGGT		
5463	I		S	CTTCATGGAGGGAGAGTGGAGGTTGTGCCA		
5463	P	A	S	CGCGCCGAGGTGGAGCAACATGTTACTTG		
5463	P	G	S	ATGACGTGGCAGACCGGAGCAACATGTTACTT		
5463	T	A	S	TGGTCAAGTAACATGTTGCTCCAGGCACAACCTCCACTCTCCCTCCATGAAGCC		
5463	T	G	S	TGGTCAAGTAACATGTTGCTCCGGGCACAACCTCCACTCTCCCTCCATGAAGCC		
5463	IS	[AG]		CGTGCAGGCCCCGCCAGCCCCACGGCACAGTTACAAGCTGGTCAAGTAACATGTTGCTCC[AG]GGCACAACCTCCACTCTCCCTCCATGAAGCCCACCCTCACCC TGTGGGAGAGGCCTGCCA	ctg17207	19
5465	I		A	GGTCACAGGTTAAGCTCACAGCCTCCATGGA		
5465	P	C	A	ATGACGTGGCAGACCCTCCCTGGGATTTAAGT		
5465	P	T	A	CGCGCCGAGGTCTCCCTGGGATTTAAGTT		
5465	T	C	A	CAGCAACTTAAATCCCAGGGAGGCCATGGAGGCTGTGAGCTTAACCTGTGACCCT		
5465	T	T	A	CAGCAACTTAAATCCCAGGGAGACCATGGAGGCTGTGAGCTTAACCTGTGACCCT		
5465	IS	[CT]		ACCACAGGTAGCTTGCGTCTGGAGTCTCAGGGTCACAGGTTAAGCTCACAGCCTCCATGG[CT]CTCCCTGGGATTTAAGTTGCTGCTGGAGATGGAGGGCTTAG GAGTCTCCACTGTGCAGAA	ctg15842	19
5471	I		S	ACTCCCACTGACATGTCTGTCCATGACCCAT		
5471	P	C	S	ATGACGTGGCAGACGCACTGCTGCTCAATT		
5471	P	T	S	CGCGCCGAGGACACTGCTGCTCAATTG		
5471	T	C	S	GTGTCAATTGAGCAGCAGTGCTGGGTCATGGACAGACATGTCAGTGGGAGTCA		
5471	T	T	S	GTGTCAATTGAGCAGCAGTGTTGGGTCATGGACAGACATGTCAGTGGGAGTCA		
5471	IS	[CT]		GGCCACCTGCTCAGTCTTAGGGAAGCATAGACTTTCTCAAGTGTCAATTGAGCAGCAGTG[CT]TGGGTCATGGACAGACATGTCAGTGGGAGTCACAGCGCCTGG TACCCCTCCAGTCCCTCA	ctg15842	19
5512	I		A	TGCTTATGATTCATAAAAGTCTGAGGCCAAATGAATGGTAT		
5512	P	G	A	ATGACGTGGCAGACGACTAAATCAGACTTCTACTTTTATAATY		
5512	P	A	A	CGCGCCGAGGAACTAAATCAGACTTCTACTTTTATAATTY		
5512	T	G	A	TTAAAATTATAAAAGTAGAAGTCTGATTTAGTCTACCATTCATTTGGCCTCAGACTTTTATGAATCATAAGCAAA		
5512	T	A	A	TTAAAATTATAAAAGTAGAAGTCTGATTTAGTTTACCATTCATTTGGCCTCAGACTTTTATGAATCATAAGCAAA		
5512	IS	[GA]		TATCACTTTTGTGTTTCATTTGCTTATGATTCATAAAAGTCTGAGGCCAAATGAATGGTA[GA]ACTAAATCAGACTTCTACTTTTATAATTTTAATCAGCTTTTCTCTC ATCTGTATATAAAC	ctg19247	7
5545	I		S	GCTGATTGAAACTTTCAACGCTGACCTCTGAATCCAAATGTACC		
5545	P	C	S	ATGACGTGGCAGACGTATTGTTCCACAGGTACTGY		
5545	P	A	S	CGCGCCGAGGTTATTGTTCCACAGGTACTGY		
5545	T	C	S	TTTCCAGTACCTGTGGAACAATACGTACATTTGGATTCAGAGGTCAGCGTTGAAAGTTTCAATCAGCAA		
5545	T	A	S	TTTCCAGTACCTGTGGAACAATAAGTACATTTGGATTCAGAGGTCAGCGTTGAAAGTTTCAATCAGCAA		
5545	IS	[CA]		TACCTGTGCTCAGCCGTTTAGGTGACAAATGTTTGTTTTTCCAGTACCTGTGGAACAATA[CA]GTACATTTGGATTCAGAGGTCAGCGTTGAAAGTTTCAATCAGCA AGGTCTATCTGACTGG	MULTIPLE	18
5605	I		A	CCCACACAGGGTTCCCAGGGCTA		
5605	P	T	A	CGCGCCGAGGTTCTCTGTTTTCTGTACTCTGY		
5605	P	C	A	ATGACGTGGCAGACCTCTCTGTTTTCTGTACTCTGY		
5605	T	T	A	GAGACAGAGTACAGAAAACAGAGAAAGCCCTGGGAACCCTGTGTGGGCA		
5605	T	C	A	GAGACAGAGTACAGAAAACAGAGAAGAGCCCTGGGAACCCTGTGTGGGCA		
5605	IS	[TC]		TCACAGGACAGAGGGGCATTTTCCCTAGTAATGTTGTGCCCACACAGGGTTCCCAGGGCT[TC]TCTCTGTTTTCTGTACTCTGTCTCTCCTTTCAGGCAAATGGCA GCTGGCAAGAGGCTGTG	ctg15907	6
5606	I		A	AGCCTCAGACTCCTTCCCTGCACAACTCTA		
5606	P	C	A	ATGACGTGGCAGACCCAAGAAACCAGACCTTAAGY		
5606	P	T	A	CGCGCCGAGGTCAAGAAACCAGACCTTAAGY		
5606	T	C	A	CAAGCTTAAGGTCTGGTTTCTTGGAGAGTTGTGCAGGGAAGGAGTCTGAGGCTGT		
5606	T	T	A	CAAGCTTAAGGTCTGGTTTCTTGAAGAGTTGTGCAGGGAAGGAGTCTGAGGCTGT		
5606	IS	[CT]		TACTAATTGTTTCCCATGGGGGCCTGGACACAGCCTCAGACTCCTTCCCTGCACAACTCT[CT]CAAGAAACCAGACCTTAAGCTTGAAGTGAAACCAATTTCTACTC CTGTTCTGGTCTTTTC	ctg17129	17
5613	I		A	GCTGGTGCCTCTGGAGTTGTGAAGTACAAAATGTCT		
5613	P	A	A	CGCGCCGAGGACAATCCTACCCCTGTGY		
5613	P	G	A	ATGACGTGGCAGACGCAATCCTACCCCTGTY		
5613	T	A	A	TTTGCACAGGGGTAGGATTGTGACATTTTGTACTTCACAACTCCAGAGGCACCAGCCA		
5613	T	G	A	TTTGCACAGGGGTAGGATTGCGACATTTTGTACTTCACAACTCCAGAGGCACCAGCCA		
5613	IS	[AG]		ATCTGCTCAGCTAGGAATTCCTCTGGCTGGTGCCTCTGGAGTTGTGAAGTACAAAATGTC[AG]CAATCCTACCCCTGTGCAAAGCATGTTATTCTCACTGCTCTGT GGGGCACATTTTAGACA	ctg16335	2
5627	I		A	CTTCACTGGCGAGAGATGCCAGGCCT		
5627	P	C	A	ATGACGTGGCAGACCAGCTTGAAGACCCTTGY		
5627	P	A	A	CGCGCCGAGGAAGCTTGAAGACCCTTGY		
5627	T	C	A	AGGACAAGGGTCTTCAAGCTGGGCCTGGCATCTCTCGCCAGTGAAGCC		
5627	T	A	A	AGGACAAGGGTCTTCAAGCTTGGCCTGGCATCTCTCGCCAGTGAAGCC		

FIGURE 129B

				TTGACACCCAGCTTCTTGTGCACTTGCCTCCCTGGCTTCACTGGCGAGAGATGCCAGGCC[CA]AGCTTGAAGACCCTTGTCCTCCCTCCTTCTGTTCCAAAAGGG			
5627	IS	[CA]		GCCGCTGCCACATCCAGG	ctg15907	6	NOTCH4
5633	I		A	AGGAGAGTTGTTCACACCAAGCTCATTTACTTGTGATGGTATTTA			
5633	P	T	A	CGCGCCGAGGTATAGCAAACATGTTTAAGTTGTATTY			
5633	P	C	A	ATGACGTGGCAGACCATAGCAAACATGTTTAAGTTGTY			
5633	T	T	A	TGATAATACAACTTAAACATGTTTGCTATAAAATACCATCACAAGTAAATGAGCTTGGTGTGAACAACTCTCCTTT			
5633	T	C	A	TGATAATACAACTTAAACATGTTTGCTATGAAATACCATCACAAGTAAATGAGCTTGGTGTGAACAACTCTCCTTT			
				TCCTAAGGCATCACAAAGGAGAGTTGTTCACACCAAGCTCATTTACTTGTGATGGTATTT[TC]ATAGCAAACATGTTTAAGTTGTATTATCAATGGTTGGACTCTGCC			
5633	IS	[TC]		TTACTGGAATAGTAA	ctg16537	20	PLCB4
5663	I		A	CGGCTGTCTGAGCCCCTAATCTCCAAGTCAGT			
5663	P	A	A	CGCGCCGAGGAGTGGTTCATTTGCCCY			
5663	P	G	A	ATGACGTGGCAGACGGTGGTTCATTTGCCCY			
5663	T	A	A	ATCTGGGCAAATGAACCACTCTGACTTGGAGATTAGGGGCTCAGACAGCCGTG			
5663	T	G	A	ATCTGGGCAAATGAACCACCCTGACTTGGAGATTAGGGGCTCAGACAGCCGTG			
				AATAAGTAGTAGAGCTGGACTCTCATCCACGGCTGTCTGAGCCCCTAATCTCCAAGTCAG[AG]GTGGTTCATTTGCCCAGATGACGACCTTTAGTTGTGAAAATGA			
5663	IS	[AG]		TCTCTGGCCTTTGCAGT	ctg13915	12	
5667	I		A	ACCTTTGCTTACTCCTTTTCTGACATTCTTCCTTTCTTTTCATACTGCA			
5667	P	T	A	CGCGCCGAGGTGAGTTTCTGACCTATAGCAY			
5667	P	C	A	ATGACGTGGCAGACCGAGTTTCTGACCTATAGCY			
5667	T	T	A	AGATTGCTATAGGTCAGAAACTCAGCAGTATGAAAAGAAAGGAAGAATGTCAGAAAAGGAGTAAGCAAAGGTAA			
5667	T	C	A	AGATTGCTATAGGTCAGAAACTCGGCAGTATGAAAAGAAAGGAAGAATGTCAGAAAAGGAGTAAGCAAAGGTAA			
				GGAATTTGTTTTACCTTTGCTTACTCCTTTTCTGACATTCTTCCTTTCTTTTCATACTGC[TC]GAGTTTCTGACCTATAGCAATCTCCTTCTGCCTGAAAGGCTTCTTT			
5667	IS	[TC]		TAGTGTTCCTTACA	ctg15907	6	
5683	I		A	CAGAGCCCAGATCAAGATGGTCAAAGTAACAAAAAGGGAA			
5683	P	T	A	CGCGCCGAGGTCTGCCGGCTTGTY			
5683	P	C	A	ATGACGTGGCAGACCCTGCCGGCTTGTY			
5683	T	T	A	TTACACAAGCCGGCAGATCCCTTTTTGTTACTTTGACCATCTTGATCTGGGCTCTGTA			
5683	T	C	A	TTACACAAGCCGGCAGGTCCCTTTTTGTTACTTTGACCATCTTGATCTGGGCTCTGTA			
				CCTCAGGACTGGTCCGTCATACAGAGCCCAGATCAAGATGGTCAAAGTAACAAAAAGGGA[TC]CTGCCGGCTTGTGTAACTGCAAAGTCTAGGAGGAGGCCTGGC			
5683	IS	[TC]		TTCAGGTGCGGCTTGATC	ctg_na	NA	
5688	I		A	TGAGGTCAGGGCAGCTCATTGGCACAT			
5688	P	G	A	ATGACGTGGCAGACGTCTGGCCTCCTTGGY			
5688	P	A	A	CGCGCCGAGGATCTGGCCTCCTTGGY			
5688	T	G	A	GGAGCCAAGGAGGCCAGACTGTGCCAATGAGCTGCCCTGACCTCAGC			
5688	T	A	A	GGAGCCAAGGAGGCCAGATTGTGCCAATGAGCTGCCCTGACCTCAGC			
				GGGCATCCGAACCTCCCCTGTGGGGCAGTGGGGCTGAGGTCAGGGCAGCTCATTGGCACA[GA]TCTGGCCTCCTTGGCTCCCGAGCTCCTTCCCAAGTCCCCA			
5688	IS	[GA]		CTCACCTGTGATCTCGCCCT	ctg17450	X	
5692	I		A	CTGGTGGACTTACTTCTGGTTTCATTTTATAAAAGCAAATCCT			
5692	P	A	A	CGCGCCGAGGAGGTGTCCCAAAGCAY			
5692	P	C	A	ATGACGTGGCAGACCGGTGTCCCAAAGCY			
5692	T	A	A	TCCTTGCTTTGGGACACCTGGATTTGCTTTTATAAAATGAAACCAGAAGTAAGTCCACCAGTA			
5692	T	C	A	TCCTTGCTTTGGGACACCGGGATTTGCTTTTATAAAATGAAACCAGAAGTAAGTCCACCAGTA			
				GCTTTAACATCCTAATTACTGGTGGACTTACTTCTGGTTTCATTTTATAAAAGCAAATCC[AC]GGTGTCCCAAAGCAAGGAATTTAATCATTTTGTGTGACATGAAAG			
5692	IS	[AC]		TAAATCCAGTCCTGC	ctg17129	17	
5693	I		S	GTCCTTGTGGCCTTCCTCGAGGAGGACT			
5693	P	C	S	ATGACGTGGCAGACGGGGATGGCCTCCY			
5693	P	T	S	CGCGCCGAGGAGGGATGGCCTCCY			
5693	T	C	S	ACAGGGAGGCCATCCCCGTCCTCCTCGAGGAAGGCCACAAGGACCA			
5693	T	T	S	ACAGGGAGGCCATCCCTGTCCTCCTCGAGGAAGGCCACAAGGACCA			
				GGCCATCCCCCTCCTCCTCAAGGAAGGCCACAAGGACCACCCCAACAGGGAGGCCATCCC[CT]GTCCTCCTCGAGGAAGGCCACAAGGACCACCCCAACAGGGA			
5693	IS	[CT]		GGCCATCAGCAAGGTCCTC	ctg14210	12	MULTIPLE SHORT GENE NAMES
5848	I		S	CCTGATTTTCCTTTAATTTTACAAAAATCTCTACATATACTTACCTCGGTTATCAA			
5848	P	A	S	CGCGCCGAGGTATGAAGTGTCTAGAGAATTGAAG			
5848	P	G	S	ATGACGTGGCAGACCATGAAGTGTCTAGAGAATTGA			
5848	T	A	S	TTTTCTTCAATTCTCTAGACACTTCATATGATAACCGAGGTAAGTATATGTAGAGATTTTTGTAAAATTAAAGGAAAATCAGGCT			
5848	T	G	S	TTTTCTTCAATTCTCTAGACACTTCATGTGATAACCGAGGTAAGTATATGTAGAGATTTTTGTAAAATTAAAGGAAAATCAGGCT			
				AGTCTGTTTATGAGAAATTAAGAATCTTATAATTTTTCTTCAATTCTCTAGACACTTCAT[AG]TGATAACCGAGGTAAGTATATGTAGAGATTTTTGTAAAATTAAAGG			
5848	IS	[AG]		AAAATCAGGCTTCT	ctg15907	6	
5855	I		A	CTTGGCCCACAATTTCTCCAACAGAAAAAATGTACAGAACTTAATGAGC			
5855	P	G	A	ATGACGTGGCAGACGGCCCACATCCCC			
5855	P	T	A	CGCGCCGAGGTGCCCACATCCCC			
5855	T	G	A	GCTGGGGGATGTGGGCCCTCATTAAGTTCTGTACATTTTTTCTGTTGGAGAAATTGTGGGCCAAGTG			
5855	T	T	A	GCTGGGGGATGTGGGCACTCATTAAGTTCTGTACATTTTTTCTGTTGGAGAAATTGTGGGCCAAGTG			
				GAGACAGACCCACTTGGCCCACAATTTCTCCAACAGAAAAAATGTACAGAACTTAATGAG[GT]GCCCACATCCCCCAGCCATTCAGGATGCTGTCCGATAAGCCCA			
5855	IS	[GT]		CTTATTTCTCACTCCAC	ctg15907	6	
5863	I		S	ACATGCAGACTCAGCCCCTCCCCTGT			
5863	P	T	S	CGCGCCGAGGACTTCAGGACCAACGG			
5863	P	G	S	ATGACGTGGCAGACCCTTCAGGACCAACGG			
5863	T	T	S	TGTTCCGTTGGTCCTGAAGTCAGGGGAGGGGCTGAGTCTGCATGTGG			
5863	T	G	S	TGTTCCGTTGGTCCTGAAGGCAGGGGAGGGGCTGAGTCTGCATGTGG			
				AGGTATCTGGGACCCTGACTGCCTAGCAACCTGCAGCCTCTTGTTCCGTTGGTCCTGAAG[TG]CAGGGGAGGGGCTGAGTCTGCATGTGGAAGGGGGAAACTGA			
5863	IS	[TG]		GGCCAGGGGGCTCCCAGGA	ctg14391	11	
5868	I		A	GGCTTCGTCATTGCCTTCGGGTACAGCAA			
5868	P	C	A	ATGACGTGGCAGACCGTTTTTGTGCGTGC			
5868	P	T	A	CGCGCCGAGGTGTTTTTGTGCGTGCA			
5868	T	C	A	GACGTGCACGCACAAAAACGTGCTGTACCCGAAGGCAATGACGAAGCCCA			
5868	T	T	A	GACGTGCACGCACAAAAACATGCTGTACCCGAAGGCAATGACGAAGCCCA			
				CCTTCGCCAATTACCGCCTGTGGGAGGCCCTGGGCTTCGTCATTGCCTTCGGGTACAGCA[CT]GTTTTTGTGCGTGCACGTCAAGCTCTACATTCTGCTGGGGGT			
5868	IS	[CT]		CCTGAGCCTGACCATGGT	ctg13516	8	
5887	I		A	GCATCTTATTGTATTGGAGGGTGACCACCCTGGGT			
5887	P	G	A	ATGACGTGGCAGACGATGGGGTGTTGGCA			
5887	P	C	A	CGCGCCGAGGCATGGGGTGTTGGC			
5887	T	G	A	CCCCTGCCAACACCCCATCCCCAGGGTGGTCACCCTCCAATACAATAAGATGCCA			
5887	T	C	A	CCCCTGCCAACACCCCATGCCCAGGGTGGTCACCCTCCAATACAATAAGATGCCA			
				TCAGAAAGGGCAACTTACTCTTCCTGGCATCTTATTGTATTGGAGGGTGACCACCCTGGG[GC]ATGGGGTGTTGGCAGGGGTCAAAAAGCTTATTTCTTTTAATCT			
5887	IS	[GC]		CTTACTCAACGAACACA	ctg15907	6	UBD
5891	I		A	GGCAGAGAAACTTCTTCCCCAAAGGCCCAAAT			
5891	P	G	A	ATGACGTGGCAGACGGAATGGGGAAATCTCAC			
5891	P	C	A	CGCGCCGAGGCGAATGGGGAAATCTCAC			
5891	T	G	A	ACCTGTGAGATTTCCCCATTCCTTTGGGCCTTTGGGGAAGAAGTTTCTCTGCCAC			
5891	T	C	A	ACCTGTGAGATTTCCCCATTCGTTTGGGCCTTTGGGGAAGAAGTTTCTCTGCCAC			
				AAGAAGACATTTGGGAGCCTTTCCAGAGTGGCAGAGAAACTTCTTCCCCAAAGGCCCAAA[GC]GAATGGGGAAATCTCACAGGTGTCCCCAGTAGACAAGTATTC			
5891	IS	[GC]		CCAACTGAAGGGACTACA	ctg15478	1	
5897	I		A	CTCAACCCAGGAATGATTTTATTTTTGTTTTTTTCCAATTTTTTTTTTTGTGCTCCTT			
5897	P	A	A	CGCGCCGAGGATAGCTGAGTTTTAAAAATCACAA			
5897	P	G	A	ATGACGTGGCAGACGTAGCTGAGTTTTAAAAATCACA			
5897	T	A	A	AGTGTTGTGATTTTTAAAACTCAGCTATAGGAGCACAAAAAAAAAAATTGGAAAAAAACAAAAATAAAAATCATTCCTGGGTTGAGCT			
5897	T	G	A	AGTGTTGTGATTTTTAAAACTCAGCTACAGGAGCACAAAAAAAAAAATTGGAAAAAAACAAAAATAAAAATCATTCCTGGGTTGAGCT			

FIGURE 129B

				AGCTCAACCCAGGAATGATTTTTATTTTTGTTTTTTTCCAATTTTTTTTTTTGTGCTCCT[AG]TAGCTGAGTTTTAAAAATCACAACACTCATAAGTCAAAAACTGGTT			
5897	IS	[AG]		TTGACACCCACCTG			
5906	I		S	TCACTTGGGTTAGGGGGAGACCCCTGATTTTT			
5906	P	T	S	CGCGCCGAGGATTTATTCATGCTAGGGATGGY			
5906	P	G	S	ATGACGTGGCAGACCTTTATTCATGCTAGGGATGGY			
5906	T	T	S	ATTACCATCCCTAGCATGAATAAATAAAATCAGGGGTCTCCCCCTAACCCAAGTGAGG			
5906	T	G	S	ATTACCATCCCTAGCATGAATAAAGAAAATCAGGGGTCTCCCCCTAACCCAAGTGAGG			
				TCTTCTTTAGAAAGCCCAGGACCTAGAGAACAAGGTATTACCATCCCTAGCATGAATAAA[TG]AAAATCAGGGGTCTCCCCCTAACCCAAGTGAGGGCTCCAGGGA			
5906	IS	[TG]		CACAAGCTTTGAAAATA		ctg15907	6
5951	I		A	CCCCAAGAGTATGTGCACTGCAAAAGGGACTT			
5951	P	G	A	ATGACGTGGCAGACGCAGGCCTCTCTCTC			
5951	P	C	A	CGCGCCGAGGCCAGGCCTCTCTCTC			
5951	T	G	A	GAAGGAGAGAGAGGCCTGCAGTCCCTTTTGCAGTGCACATACTCTTGGGGTG			
5951	T	C	A	GAAGGAGAGAGAGGCCTGGAGTCCCTTTTGCAGTGCACATACTCTTGGGGTG			
				CCTGATCACTGCTCTCTTGGAAGACCTCACCCCAAGAGTATGTGCACTGCAAAAGGGACT[GC]CAGGCCTCTCTCTCCTTCTTTCAGAATCCTTCACGCCCGACCA			
5951	IS	[GC]		CAAGCCCCTGATGGGGG		ctg15330	9
5956	I		S	CGGCCCCCAAACACCCCTGGAGT			
5956	P	T	S	CGCGCCGAGGATCACAACCACAAAGATGC			
5956	P	C	S	ATGACGTGGCAGACGTCACAACCACAAAGATG			
5956	T	T	S	TTGCGCATCTTTGTGGTTGTGATCTCCAGGGGTGTTTGGGGGCCGAT			
5956	T	C	S	TTGCGCATCTTTGTGGTTGTGACCTCCAGGGGTGTTTGGGGGCCGAT			
				TAAAATAAAACAGACGTTTTGGTGAAATGGCTTTGCATTTGCGCATCTTTGTGGTTGTGA[TC]CTCCAGGGGTGTTTGGGGGCCGATGGAAGGGGGCATCAAAGT			
5956	IS	[TC]		CCTGTGGTGTAGTGATGT		ctg15140	12
5967	I		S	GCTCTCCACAGTTTCCCATCCTTTCTCAAGCTGT			
5967	P	C	S	ATGACGTGGCAGACGTTCCAGAGCCACTGT			
5967	P	T	S	CGCGCCGAGGATTCCAGAGCCACTGT			
5967	T	C	S	AGCCACAGTGGCTCTGGAACCAGCTTGAGAAAGGATGGGAAACTGTGGAGAGCAC			
5967	T	T	S	AGCCACAGTGGCTCTGGAATCAGCTTGAGAAAGGATGGGAAACTGTGGAGAGCAC			
				TGTGAGTGCCCAGCTACAATTCACTGAAAAACAGGAACTTAAGCCACAGTGGCTCTGGAA[CT]CAGCTTGAGAAAGGATGGGAAACTGTGGAGAGCACTCAGGAA			
5967	IS	[CT]		ACCACAAACCACCCTCGG		ctg15478	1
5979	I		S	GCGCCCTCAGCCTGCCTCACAA			
5979	P	G	S	ATGACGTGGCAGACCCGTACACACAAAGCTG			
5979	P	A	S	CGCGCCGAGGTCGTACACACAAAGCTG			
5979	T	G	S	GCCTCAGCTTTGTGTGTACGGTGTGAGGCAGGCTGAGGGCGCAC			
5979	T	A	S	GCCTCAGCTTTGTGTGTACGATGTGAGGCAGGCTGAGGGCGCAC			
				TTCTGTTTTCTGTGCCTTGTAAGATGGCAACTAACAGTACGCCTCAGCTTTGTGTGTACG[GA]TGTGAGGCAGGCTGAGGGCGCACCCACCACTTTCACCGTCAC			
5979	IS	[GA]		CTAATTATTGCTAAGCTC		ctg22fin4	22
5985	I		A	TGCACCCCATTGTACTGTCAGAAACCTTTTGGTATGTCC			
5985	P	A	A	CGCGCCGAGGACATCTTACTCACCTTTATACG			
5985	P	T	A	ATGACGTGGCAGACTCATCTTACTCACCTTTATACG			
5985	T	A	A	TGAACGTATAAAGGTGAGTAAGATGTGACATACCAAAAGGTTTCTGACAGTACAATGGGGTGCAAA			
5985	T	T	A	TGAACGTATAAAGGTGAGTAAGATGAGACATACCAAAAGGTTTCTGACAGTACAATGGGGTGCAAA			
				CTCCACTGTGTGCCATTATGTTTGCACCCCATTGTACTGTCAGAAACCTTTTGGTATGTC[AT]CATCTTACTCACCTTTATACGTTCAGCAGAATGGGTATTCACCAA			
5985	IS	[AT]		TGTCAGGCTGAAGTG		ctg15665	20
6001	I		A	CCTCCCTTCCTGCATCCCCTTTCCTTTCCT			
6001	P	G	A	ATGACGTGGCAGACGGTTCACATTGAGCAGG			
6001	P	C	A	CGCGCCGAGGCGTTCACATTGAGCAGG			
6001	T	G	A	TATGCCTGCTCAATGTGAACCGGAAAGGAAAGGGGATGCAGGAAGGGAGGGA			
6001	T	C	A	TATGCCTGCTCAATGTGAACGGGAAAGGAAAGGGGATGCAGGAAGGGAGGGA			
				TATTGACTCCAACTCAACTTTCCCCCAGTCCCTCCCTTCCTGCATCCCCTTTCCTTTCC[GC]GTTCACATTGAGCAGGCATATGAAACGATGGGTCTGTGCTCCCT			
6001	IS	[GC]		TTGACATACACTCATG		ctg13980	1
6005	I		S	GATCTCAGCTTCTTCTTCTGTCAATTGGGGAAAAAGACTGGT			
6005	P	G	S	ATGACGTGGCAGACCCCTATCTGACTTCCAAGA			
6005	P	T	S	CGCGCCGAGGACCTATCTGACTTCCAAGAT			
6005	T	G	S	GAAGATCTTGGAAGTCAGATAGGGCCAGTCTTTTTCCCCAATTGACAGAAGAAGAAGCTGAGATCTA			
6005	T	T	S	GAAGATCTTGGAAGTCAGATAGGTCCAGTCTTTTTCCCCAATTGACAGAAGAAGAAGCTGAGATCTA			
				AAGAGCACCTCTCGTATCTATTCTCATTTCCCATTATGAAGATCTTGGAAGTCAGATAGG[GT]CCAGTCTTTTTCCCCAATTGACAGAAGAAGAAGCTGAGATCTAG			
6005	IS	[GT]		GAGCCAAAGGAGTGAG		ctg16537	20
6110	I		S	CAGCATGCTGCAGTAAGAATTCGGCCTCTCAAC			
6110	P	A	S	CGCGCCGAGGTCAGTCTTGTAGTAGTGAAGT			
6110	P	C	S	ATGACGTGGCAGACGCAGTCTTGTAGTAGTGAAG			
6110	T	A	S	CAGAACTTCACTACTACAAGACTGATTGAGAGGCCGAATTCTTACTGCAGCATGCTGGG			
6110	T	C	S	CAGAACTTCACTACTACAAGACTGCTTGAGAGGCCGAATTCTTACTGCAGCATGCTGGG			
				TGAATTTGAGTATTTTGAATTAGAATATAATGATAGCAGAACTTCACTACTACAAGACTG[AC]TTGAGAGGCCGAATTCTTACTGCAGCATGCTGGGGGAGAAGTAA			
6110	IS	[AC]		GACCCTAAGTGTGAAG		ctg22fin3	22
6134	I		S	CGCCATGCACGCCTGGCTAATTTTTTGTATTTTAGTACAGT			
6134	P	C	S	ATGACGTGGCAGACGTGGGGTTTCACCTTG			
6134	P	T	S	CGCGCCGAGGATGGGGTTTCACCTTGT			
6134	T	C	S	GGCAACAAGGTGAAACCCCACCTGTACTAAAATACAAAAAATTAGCCAGGCGTGCATGGCGGT			
6134	T	T	S	GGCAACAAGGTGAAACCCCATCTGTACTAAAATACAAAAAATTAGCCAGGCGTGCATGGCGGT			
				CGGGCGGATTGCCTGAGCTCAGGGGTTAGAGACCAGTCTGGGCAACAAGGTGAAACCCCA[CT]CTGTACTAAAATACAAAAAATTAGCCAGGCGTGCATGGCGGT			
6134	IS	[CT]		GTGTGTCTGTAGTCCCAG		ctg15665	20
6139	I		S	GCACAGAAGGTTATGTCCAGGTCCAGAAAAAACCAACTT			
6139	P	T	S	CGCGCCGAGGACAACCAAATAGCTGATGC			
6139	P	C	S	ATGACGTGGCAGACGCAACCAAATAGCTGATG			
6139	T	T	S	TTGAGCATCAGCTATTTGGTTGTAGTTGGTTTTTTCTGGACCTGGACATAACCTTCTGTGCCG			
6139	T	C	S	TTGAGCATCAGCTATTTGGTTGCAGTTGGTTTTTTCTGGACCTGGACATAACCTTCTGTGCCG			
				AATGTGTGGTGAGGTGGATGCTTATCCTTGCATAGTCCTTGAGCATCAGCTATTTGGTTG[TC]AGTTGGTTTTTTCTGGACCTGGACATAACCTTCTGTGCCGTGT			
6139	IS	[TC]		TCCTGTGTCTCCAGCAG		ctg14243	19
6182	I		S	TCTGGCCCACTTTCCCACCCTGAAATTGGA			
6182	P	A	S	CGCGCCGAGGTTTCCAGAAATGAAAGCGA			
6182	P	G	S	ATGACGTGGCAGACCTTCCAGAAATGAAAGCGA			
6182	T	A	S	GCCATCGCTTTCATTTCTGGAAACCAATTTCAGGGTGGGAAAGTGGGCCAGATT			
6182	T	G	S	GCCATCGCTTTCATTTCTGGAAGCCAATTTCAGGGTGGGAAAGTGGGCCAGATT			
				TCGGTCTTGAGTTCCGCGATTTTGGGAATGTAGTTCAGGCCATCGCTTTCATTTCTGGAA[AG]CCAATTTCAGGGTGGGAAAGTGGGCCAGATTATTCCTCGTCAA			
6182	IS	[AG]		ATGAGTCTCCCAGAGGC		ctg15590	7
6210	I		S	CGCAATGTCCCTTGGGAAGCCCCCT			
6210	P	C	S	ATGACGTGGCAGACGTCCCCAGCTCCC			
6210	P	T	S	CGCGCCGAGGATCCCCAGCTCCCA			
6210	T	C	S	CACATGGGAGCTGGGGACGGGGGCTTCCCAAGGGACATTGCGTC			
6210	T	T	S	CACATGGGAGCTGGGGATGGGGGCTTCCCAAGGGACATTGCGTC			
				GCTCCAGCAATTCTGTGCTGCATCTGTGGATGCTGATGTCTTCCACATGGGAGCTGGGGA[CT]GGGGGCTTCCCAAGGGACATTGCGTCATCCCTCTCCCCTTCC			
6210	IS	[CT]		AAGAATGGTCTAGAGGAT		ctg15144	12
6216	I		A	CTCTGTCACATGGGCCATATTTGCTCAGCCTA			
6216	P	T	A	CGCGCCGAGGTCCCTCTATCCTGGAAGA			
6216	P	C	A	ATGACGTGGCAGACCCCCTCTATCCTGGAAG			
6216	T	T	A	GAGATCTTCCAGGATAGAGGGAAGGCTGAGCAAATATGGCCCATGTGACAGAGAG			
6216	T	C	A	GAGATCTTCCAGGATAGAGGGGAGGCTGAGCAAATATGGCCCATGTGACAGAGAG			

				TCTCATTTCTCCAGTGAGGCTCTGTCACTCTCTGTCACATGGGCCATATTTGCTCAGCCT[TC]CCCTCTATCCTGGAAGATCTCCAAGGCCAGGGACTGTGTTTCA		
6218	IS	[TC]		TAAACTTGAATCCCTGC	ctg19262	19
6268	I		A	CCATCTCTGCTTCAGTCTGCCTTACAGGGGC		
6268	P	G	A	ATGACGTGGCAGACGACAGGGTTAATGACTTGAT		
6268	P	T	A	CGCGCCGAGGTACAGGGTTAATGACTTGATG		
6268	T	G	A	GCCCCATCAAGTCATTAACCCTGTCCCCCTGTAAGGCAGACTGAAGCAGAGATGGGA		
6268	T	T	A	GCCCCATCAAGTCATTAACCCTGTACCCCTGTAAGGCAGACTGAAGCAGAGATGGGA		
				TCAAAAATGGCCAGAACCACTGCCAGCCTCCCATCTCTGCTTCAGTCTGCCTTACAGGGG[GT]ACAGGGTTAATGACTTGATGGGGCCAACATCCCTTCCCTCATA		
6268	IS	[GT]		AACCAGGCTGCCGGCTT	ctg22fin4	22
6274	I		S	CGCTGTGTTGCCCAGGCTGGTCTCT		
6274	P	T	S	CGCGCCGAGGAAAGTCCTGGTCTCAAAC		
6274	P	C	S	ATGACGTGGCAGACGAAGTCCTGGTCTCAAAC		
6274	T	T	S	GATTGTTTGAGACCAGGACTTTGAGACCAGCCTGGGCAACACAGCGAG		
6274	T	C	S	GATTGTTTGAGACCAGGACTTCGAGACCAGCCTGGGCAACACAGCGAG		
				GGTGTGGTAGCTATGCCTGTAATCCCAGCACTCTGGGAGGATTGTTTGAGACCAGGACTT[TC]GAGACCAGCCTGGGCAACACAGCGAGACCCCATCTCTACAAA		
6274	IS	[TC]		GATAAAAAATTAGCCAGG	ctg15279	10
6295	I		S	CTCAGGGACCCCCCAGGCTGGAA		
6295	P	G	S	ATGACGTGGCAGACCCAAGCCTCCTCCAG		
6295	P	A	S	CGCGCCGAGGTCAAGCCTCCTCCAG		
6295	T	G	S	GAGTCTGGAGGAGGCTTGGTCCAGCCTGGGGGGTCCCTGAGAC		
6295	T	A	S	GAGTCTGGAGGAGGCTTGATCCAGCCTGGGGGGTCCCTGAGAC		
				GTCTCTGTGTTTGCAGGTGTCCAGTGTGAGGTGCAGCTGGTGGAGTCTGGAGGAGGCTTG[GA]TCCAGCCTGGGGGGTCCCTGAGACTCTCCTGTGCAGCCTCT		
6295	IS	[GA]		GGGTTCACCGTCAGTAGCA	MULTIPLE	MULTIPLE
6332	I		S	GCGGTCATGGAGATCCCCGGGAGCA		
6332	P	G	S	ATGACGTGGCAGACCTGTGCAAGAAAGTCAAG		
6332	P	A	S	CGCGCCGAGGTTGTGCAAGAAAGTCAAGC		
6332	T	G	S	CTCAGCTTGACTTTCTTGCACAGGCTCCCGGGGATCTCCATGACCGCGG		
6332	T	A	S	CTCAGCTTGACTTTCTTGCACAAGCTCCCGGGGATCTCCATGACCGCGG		
				GCCTTCGTCCCCAGCTTACCCAGTTCTGCGCGTTATTGCTCAGCTTGACTTTCTTGCACA[GA]GCTCCCGGGGATCTCCATGACCGCGGAGCGCGCTGAGCAGC		
6332	IS	[GA]		CGGGGTTCTCTGCGCCGGG	ctg15540	4
6340	I		A	TGAGGAAACCGAGATTCAGACAAGTTCAGTGATTTT		
6340	P	G	A	ATGACGTGGCAGACGCTCCAATGGCACAGY		
6340	P	C	A	CGCGCCGAGGCCTCCAATGGCACAGAY		
6340	T	G	A	AACTTCTGTGCCATTGGAGCAAATCACTGAACTTGTCTGAATCTCGGTTTCCTCATC		
6340	T	C	A	AACTTCTGTGCCATTGGAGGAAATCACTGAACTTGTCTGAATCTCGGTTTCCTCATC		
				TATCTATCTGGACCAATTTTACAGATGAGGAAACCGAGATTCAGACAAGTTCAGTGATTT[GC]CTCCAATGGCACAGAAGTTGGTCAGGGTCAGATGGGAAGCTAG		
6340	IS	[GC]		AAAATAAAATTCTAATA	ctg15064	7
6358	I		A	ATTCCAATGAAATGAGGACCACTCTTGCTTCCCCTAAAGT		
6358	P	G	A	ATGACGTGGCAGACGCTTGCTTTGCTTGCY		
6358	P	C	A	CGCGCCGAGGCCTTGCTTTGCTTGCTY		
6358	T	G	A	GAAAAGCAAGCAAAGCAAGCCTTTAGGGGAAGCAAGAGTGGTCCTCATTTCATTGGAATGT		
6358	T	C	A	GAAAAGCAAGCAAAGCAAGGCTTTAGGGGAAGCAAGAGTGGTCCTCATTTCATTGGAATGT		
				GACTCTCTCAAGACACACGACATTCCAATGAAATGAGGACCACTCTTGCTTCCCCTAAAG[GC]CTTGCTTTGCTTGCTTTTCATTCATTCATTCATCTGTTCCTTCCT		
6358	IS	[GC]		TCCTTCCTTCATTTT	ctg22fin7	22
6431	I		S	GCTTGATAGTTGACTAGGAAGACTCCCAGAGCTCACTT		
6431	P	C	S	ATGACGTGGCAGACGAGAGCTGTGGCACAY		
6431	P	G	S	CGCGCCGAGGCAGAGCTGTGGCACAY		
6431	T	C	S	GCCATGTGCCACAGCTCTCAGTGAGCTCTGGGAGTCTTCCTAGTCAACTATCAAGCCT		
6431	T	G	S	GCCATGTGCCACAGCTCTGAGTGAGCTCTGGGAGTCTTCCTAGTCAACTATCAAGCCT		
				CCTTGGACAATTCTAACCTGTGTTCTTCTGAAGGAGCCGCAGCCATGTGCCACAGCTCT[CG]AGTGAGCTCTGGGAGTCTTCCTAGTCAACTATCAAGCCTGAG		
6431	IS	[CG]		GGTGGTTTGGGGAACCCC	ctg18911	9
6433	I		A	GTGATTAGAGGTGCCAATGAAATAGTAAACAGGTGGAAGCCA		
6433	P	T	A	CGCGCCGAGGTCAAGAAGTGAACATCAATTAAGY		
6433	P	C	A	ATGACGTGGCAGACCCAAGAAGTGAACATCAATTAAGY		
6433	T	T	A	GTCACTTAATTGATGTTCACTTCTTGAGGCTTCCACCTGTTTACTATTTCATTGGCACCTCTAATCACAG		
6433	T	C	A	GTCACTTAATTGATGTTCACTTCTTGGGGCTTCCACCTGTTTACTATTTCATTGGCACCTCTAATCACAG		
				AGATCAGAAGGCTTGATCTGTGATTAGAGGTGCCAATGAAATAGTAAACAGGTGGAAGCC[TC]CAAGAAGTGAACATCAATTAAGTGACTCCAGTGTGAGAGTTGT		
6433	IS	[TC]		TCATGAACCTTAGGTCA	ctg17004	X
6434	I		S	TGCCAAAGCACTTCTTGTGTTTTGTTTTGTTTTTTCAT		
6434	P	C	S	ATGACGTGGCAGACGTACATTCACTGAGTGATCCY		
6434	P	T	S	CGCGCCGAGGATACATTCACTGAGTGATCCY		
6434	T	C	S	TTTAGGATCACTCAGTGAATGTACTGAAAAAACAAAACAAAACACAAGAAGTGCTTTGGCAGA		
6434	T	T	S	TTTAGGATCACTCAGTGAATGTATTGAAAAAACAAAACAAAACACAAGAAGTGCTTTGGCAGA		
				TGACAGGGAAGGAAATTGAGGATGTTAGTAGAGATTATTTAGGATCACTCAGTGAATGTA[CT]TGAAAAAACAAAACAAAACACAAGAAGTGCTTTGGCAGATTTGA		
6434	IS	[CT]		ATTTAGAGGAAGATAA		
6435	I		A	CTTCCTATCCTAATTTTAGATTCTCTCCTACGTGATTTTGTTCATTTGCCCA		
6435	P	C	A	ATGACGTGGCAGACCATCTGCTCTCCACCAY		
6435	P	T	A	CGCGCCGAGGTATCTGCTCTCCACCAAGY		
6435	T	C	A	TCTTCTTGGTGGAGAGCAGATGGGGCAAATGAACAAAATCACGTAGGAGAGAATCTAAAATTAGGATAGGAAGTT		
6435	T	T	A	TCTTCTTGGTGGAGAGCAGATAGGGCAAATGAACAAAATCACGTAGGAGAGAATCTAAAATTAGGATAGGAAGTT		
				GAATAGTAACTTCCTATCCTAATTTTAGATTCTCTCCTACGTGATTTTGTTCATTTGCCC[CT]ATCTGCTCTCCACCAAGAAGAAGCATGAGCCTAGAAGACCCATTT		
6435	IS	[CT]		TATATTTCATTTCTG	ctg15064	7
6437	I		S	GCTCATTGTAGCATCAACACATATTTGAGAATGCATCATAA		
6437	P	A	S	CGCGCCGAGGTAATTCATGATGTATCAATGCTTTAY		
6437	P	G	S	ATGACGTGGCAGACCAATTCATGATGTATCAATGCTY		
6437	T	A	S	GCTGTAAAGCATTGATACATCATGAATTATATGATGCATTCTCAAATATGTGTTGATGCTACAATGAGCTA		
6437	T	G	S	GCTGTAAAGCATTGATACATCATGAATTGTATGATGCATTCTCAAATATGTGTTGATGCTACAATGAGCTA		
				GCACCTGAAAAAATAATAAGAACTTCCTCTTGGCTGTAAAGCATTGATACATCATGAATT[AG]TATGATGCATTCTCAAATATGTGTTGATGCTACAATGAGCTACAT		
6437	IS	[AG]		GTACTTTGTCAAACA	ctg19247	7
6451	I		S	CTTGAAAGAATTTTTCCCTTTTAATTAAACCTCTTGTATAGCTCAACCA		
6451	P	G	S	ATGACGTGGCAGACCTGCCTTTAAAGCTCTTTTTY		
6451	P	A	S	CGCGCCGAGGTTGCCTTTAAAGCTCTTTTTTAY		
6451	T	G	S	TCACTAAAAAAGAGCTTTAAAGGCAGGGTTGAGCTATACAAGAGGTTTAATTAAAAGGGAAAAATTCTTTCAAGAG		
6451	T	A	S	TCACTAAAAAAGAGCTTTAAAGGCAAGGTTGAGCTATACAAGAGGTTTAATTAAAAGGGAAAAATTCTTTCAAGAG		
				CAGGATATGTCAAAGGAAGATTATTCTAAAGGATGTCACTAAAAAAGAGCTTTAAAGGCA[GA]GGTTGAGCTATACAAGAGGTTTAATTAAAAGGGAAAAATTCTTT		
6451	IS	[GA]		CAAGAGAGTTCTTTCA	ctg25099	7
6464	I		S	GGTTGTCCAACAGGTGTTTACTGCCCCACTATTATCTC		
6464	P	A	S	CGCGCCGAGGTGTTCAGAGTGATGTGCY		
6464	P	C	S	ATGACGTGGCAGACGGTTCAGAGTGATGTGCY		
6464	T	A	S	AGCTGCACATCACTCTGAACAAGATAATAGTGGGGCAGTAAACACCTGTTGGACAACCAG		
6464	T	C	S	AGCTGCACATCACTCTGAACCAGATAATAGTGGGGCAGTAAACACCTGTTGGACAACCAG		
				CGTGGCTTCGCTGGCTCCCACTTTGTCTCCAGTCTTGATCAGCTGCACATCACTCTGAAC[AC]AGATAATAGTGGGGCAGTAAACACCTGTTGGACAACCAGCAGA		
6464	IS	[AC]		TCCATGGCCACTAAAAG	ctg15140	12
6466	I		A	CAAAAAACAAATTATCGATTAATTTAGTATATGAAAATTTAAATATATGTTATCATTTCAT		
6466	P	G	A	ATGACGTGGCAGACGGTTTTATAGTCTTAGCTTCTCAY		
6466	P	A	A	CGCGCCGAGGAGTTTTATAGTCTTAGCTTCTCAAY		
6466	T	G	A	AAATTTGAGAAGCTAAGACTATAAAACCTGAAATGATAACATATATTTAAATTTTCATATACTAAATTAATCGATAATTTGTTTTTTG		
6466	T	A	A	AAATTTGAGAAGCTAAGACTATAAAACTTGAAATGATAACATATATTTAAATTTTCATATACTAAATTAATCGATAATTTGTTTTTTG		



FIGURE 129B

				CAAAAAACAAATTATCGATTAATTTAGTATATGAAAATTTAAATATATGTTATCATTTCA[GA]GTTTTATAGTCTTAGCTTCTCAAATTTGGAGGGAACAAATGTGGGA			
6466	IS	[GA]		TTAAAATTCTAAGA	ctg15064	7	
6480	I		S	CCAGAACATGTTGGGATGTCCCAGGATGCCC			
6480	P	A	S	CGCGCCGAGGTCACTCTGTTTAGCCCAY			
6480	P	C	S	ATGACGTGGCAGACGCACTCTGTTTAGCCCY			
6480	T	A	S	AAATTGGGCTAAACAGAGTGAGGCATCCTGGGACATCCCAACATGTTCTGGCA			
6480	T	C	S	AAATTGGGCTAAACAGAGTGCGGCATCCTGGGACATCCCAACATGTTCTGGCA			
				TTTATGATATGGTTATTAGCACCTGCGGGGAGGGAGGTTAAAATTGGGCTAAACAGAGTG[AC]GGCATCCTGGGACATCCCAACATGTTCTGGCAGCTTCAAGCTT			
6480	IS	[AC]		TGGTACCTCGTCTGCAA	ctg13740	5	
6490	I		A	CCCAAGCATCTTCCTACCTGATGGAAGTCACCCT			
6490	P	G	A	ATGACGTGGCAGACGCTTGCCGGATGTAAC			
6490	P	A	A	CGCGCCGAGGACTTGCCGGATGTAAC			
6490	T	G	A	GCTGGTTACATCCGGCAAGCGGGTGACTTCCATCAGGTAGGAAGATGCTTGGGAG			
6490	T	A	A	GCTGGTTACATCCGGCAAGTGGGTGACTTCCATCAGGTAGGAAGATGCTTGGGAG			
				CTCTCCCATTCCCACAACCTGCCTGCTCCCAAGCATCTTCCTACCTGATGGAAGTCACCC[GA]CTTGCCGGATGTAACCAGCCACTTCACTGTCAGATTTAAAGAT			
6490	IS	[GA]		CTTCCAAACTTTTTTTT			
6496	I		S	GCTGCAGAGCTCCTCCTCACCTTGTTTTTGTA			
6496	P	A	S	CGCGCCGAGGTCCACCAGATCTCACAG			
6496	P	G	S	ATGACGTGGCAGACCCCACCAGATCTCACA			
6496	T	A	S	AATGCTGTGAGATCTGGTGGAACAAAAACAAGGTGAGGAGGAGCTCTGCAGCCG			
6496	T	G	S	AATGCTGTGAGATCTGGTGGGACAAAAACAAGGTGAGGAGGAGCTCTGCAGCCG			
				ACAGGCATGACCTCCACCGGTGTGACTCGGGGTTTGCTGTAATGCTGTGAGATCTGGTGG[AG]ACAAAAACAAGGTGAGGAGGAGCTCTGCAGCCGCACCCTTG			
6496	IS	[AG]		CCTCTCCCCATCCCAGTCC	ctg19252	19	
6503	I		A	GGTCCTCGCCCGGGGGCAT			
6503	P	A	A	CGCGCCGAGGACTGCACGGCCAG			
6503	P	G	A	ATGACGTGGCAGACGCTGCACGGCCA			
6503	T	A	A	GCGGCTGGCCGTGCAGTTGCCCCCGGGCGAGGACCTG			
6503	T	G	A	GCGGCTGGCCGTGCAGCTGCCCCCGGGCGAGGACCTG			
				GGTTAAAGAAGTCCACCACGTGAACAGCCACCCAGTCGTTCAGGTCCTCGCCCGGGGGCA[AG]CTGCACGGCCAGCCGCAGGTCCAGCCCGGCGTTCAGCGAC			
6503	IS	[AG]		GCCTGCGCCTTCTTGTGCAG	ctg_na	NA	
6513	I		A	GGCATTATCCCCCTAAGTCTCGTATGATATTCCCCATTCTT			
6513	P	G	A	ATGACGTGGCAGACGAGTCCAGAATACCTAGAAATTT			
6513	P	A	A	CGCGCCGAGGAAGTCCAGAATACCTAGAAATTT			
6513	T	G	A	TTCCAAATTTCTAGGTATTCTGGACTCAGAATGGGGAATATCATACGAGACTTAGGGGGATAATGCCCT			
6513	T	A	A	TTCCAAATTTCTAGGTATTCTGGACTTAGAATGGGGAATATCATACGAGACTTAGGGGGATAATGCCCT			
				CCTTAAAATAGGAAGATAAGGGCATTATCCCCCTAAGTCTCGTATGATATTCCCCATTCT[GA]AGTCCAGAATACCTAGAAATTTGGAATTTGGCTATTGCCGTGTC			
6513	IS	[GA]		TGGACTGTGAGTATGG	ctg22fin3	22	
6603	I		S	GGGGTGAGCATAGTTCCCAGCACCCTGATAT			
6603	P	C	S	ATGACGTGGCAGACGTTGACCGTTGCCTTTA			
6603	P	T	S	CGCGCCGAGGATTGACCGTTGCCTTTAT			
6603	T	C	S	AATCATAAAGGCAACGGTCAACTATCAGGGTGCTGGGAACTATGCTCACCCCTT			
6603	T	T	S	AATCATAAAGGCAACGGTCAATTATCAGGGTGCTGGGAACTATGCTCACCCCTT			
				AAATTTTAGGATTTTACTTTGATATACAAAGTATTGCAAAATCATAAAGGCAACGGTCAA[CT]TATCAGGGTGCTGGGAACTATGCTCACCCCTTTGGGAGCTCCCG			
6603	IS	[CT]		GTGGCTAAAAGGTAAA	ctg19247	7	
6629	I		A	GCTGACAGAGAAATCAATATAACTGGAGAGTTGTTTAGATTTATATGTCTGGGTTTTTC			
6629	P	T	A	CGCGCCGAGGTAATTCCATTGCTTAGAAAAGG			
6629	P	A	A	ATGACGTGGCAGACAAATTCCATTGCTTAGAAAAGG			
6629	T	T	A	AAATCCTTTTCTAAGCAATGGAATTAAAAAACCCAGACATATAAATCTAAACAACTCTCCAGTTATATTGATTTCTCTGTCAGCTT			
6629	T	A	A	AAATCCTTTTCTAAGCAATGGAATTTAAAAACCCAGACATATAAATCTAAACAACTCTCCAGTTATATTGATTTCTCTGTCAGCTT			
				AAGCTGACAGAGAAATCAATATAACTGGAGAGTTGTTTAGATTTATATGTCTGGGTTTTT[TA]AATTCCATTGCTTAGAAAAGGATTTCAAAAGAAGCAATCATATTAA			
6629	IS	[TA]		GTGAACACATGCAC	ctg15972	16	
6701	I		A	CCATGCATGATGTGCCAAGTACCATGTATATACCCTCAGTAT			
6701	P	A	A	CGCGCCGAGGAATTCTTAGAGCCACCCTY			
6701	P	G	A	ATGACGTGGCAGACGATTCTTAGAGCCACCCTY			
6701	T	A	A	CCTCAGGGTGGCTCTAAGAATTTACTGAGGGTATATACATGGTACTTGGCACATCATGCATGGCA			
6701	T	G	A	CCTCAGGGTGGCTCTAAGAATCTACTGAGGGTATATACATGGTACTTGGCACATCATGCATGGCA			
				TACCAATAAAACCCTATTGCCATGCATGATGTGCCAAGTACCATGTATATACCCTCAGTA[AG]ATTCTTAGAGCCACCCTGAGGTAAGCATTATTGTCCCATCACTT			
6701	IS	[AG]		TGGACTTGGAAACAAA	ctg14932	16	
6708	I		A	AGCAGCTTAGCCACAGTGTGGCATAGTCGA			
6708	P	T	A	CGCGCCGAGGTCTCCTTCCTGTTCACAAY			
6708	P	C	A	ATGACGTGGCAGACCCTCCTTCCTGTTCACAY			
6708	T	T	A	AGGTTTGTGAACAGGAAGGAGACGACTATGCCACACTGTGGCTAAGCTGCTGG			
6708	T	C	A	AGGTTTGTGAACAGGAAGGAGGCGACTATGCCACACTGTGGCTAAGCTGCTGG			
				GCAGCGGGACTCGGCCATGTATCGCTGTGCCAGCAGCTTAGCCACAGTGTGGCATAGTCG[TC]CTCCTTCCTGTTCACAAACCTCATCCTTCTCTCTCCTTGCAC			
6708	IS	[TC]		CTCCTAGAGACCCTTAAC	ctg18037	7	
6719	I		A	CCCTAGAGTTGCCCTGCATCCCACACCT			
6719	P	A	A	CGCGCCGAGGATCCCTCTCTGCAGCY			
6719	P	G	A	ATGACGTGGCAGACGTCCCTCTCTGCAGCY			
6719	T	A	A	GTCTGCTGCAGAGAGGGATGGTGTGGGATGCAGGGCAACTCTAGGGGT			
6719	T	G	A	GTCTGCTGCAGAGAGGGACGGTGTGGGATGCAGGGCAACTCTAGGGGT			
				CACCTTCTTTGCTGTTTCCCCAGTGCTGTCCACCCCTAGAGTTGCCCTGCATCCCACACC[AG]TCCCTCTCTGCAGCAGACTAGCCAAGGGGAAAGACAGCGGTC			
6719	IS	[AG]		AAGTTCCATGAATGCTGC	ctg15054	1	
6723	I		A	ACCCAGGTGGCCATCCAGCTGAATGAA			
6723	P	C	A	ATGACGTGGCAGACCACTCACCCTGCACTY			
6723	P	T	A	CGCGCCGAGGTACTCACCCTGCACTCY			
6723	T	C	A	TCGCGAGTGCAGGGTGAGTGTCATTCAGCTGGATGGCCACCTGGGTGG			
6723	T	T	A	TCGCGAGTGCAGGGTGAGTATCATTCAGCTGGATGGCCACCTGGGTGG			
				GCCATCCGTTGCCTTCATGTTGATGTCTTTCCCCACCCAGGTGGCCATCCAGCTGAATGA[CT]ACTCACCCTGCACTCGCGATCCCTGAGCTGATGAGGATTTTTG			
6723	IS	[CT]		TGGATATTGAAAAACTG	ctg16166	14	
6728	I		A	CTCTCCCCGACCCGTCCCACCAA			
6728	P	C	A	ATGACGTGGCAGACCGGTCTCCACAGCAY			
6728	P	T	A	CGCGCCGAGGTGGTCTCCACAGCACY			
6728	T	C	A	GGGAGTGCTGTGGAGACCGTGGTGGGACGGGTCGGGGAGAGTC			
6728	T	T	A	GGGAGTGCTGTGGAGACCATGGTGGGACGGGTCGGGGAGAGTC			
				CCGGTACAGCCCCATCCCACCCAGCCACCACCAGCTGACTCTCCCCGACCCGTCCCACCA[CT]GGTCTCCACAGCACTCCCGACAGCCCCGCCAAACCAGAGAA			
6728	IS	[CT]		GAATGGGCATGCCAAAGAC	ctg12325	11	DRD2
6732	I		S	GAGTGGTCCGGCGGAGCTGCTCC			
6732	P	C	S	ATGACGTGGCAGACGCCCTGAAGAAGCAGY			
6732	P	A	S	CGCGCCGAGGTCCCTGAAGAAGCAGCY			
6732	T	C	S	ACCTGCTGCTTCTTCAGGGCGAGCAGCTCCGCCGGACCACTCGC			
6732	T	A	S	ACCTGCTGCTTCTTCAGGGAGAGCAGCTCCGCCGGACCACTCGC			
				TCCTTCCCCCAGGCCACTGTGGGCTCGAGTAGGGGATGACCACCTGCTGCTTCTTCAGGG[CA]GAGCAGCTCCGCCGGACCACTCGCTCTGTTGTCCATCCCAA			
6732	IS	[CA]		GTACCACCAGGGCTCAGGC	ctg5212	19	
6733	I		S	CTTCACAGTGCCCGCCTCGTCCACT			
6733	P	C	S	ATGACGTGGCAGACGTAACCCAGGGTTCGGY			
6733	P	T	S	CGCGCCGAGGATAACCCAGGGTTCGGY			
6733	T	C	S	TGCTCCGAACCCTGGGTTACGTGGACGAGGCGGGCACTGTGAAGCT			
6733	T	T	S	TGCTCCGAACCCTGGGTTATGTGGACGAGGCGGGCACTGTGAAGCT			

FIGURE 129B

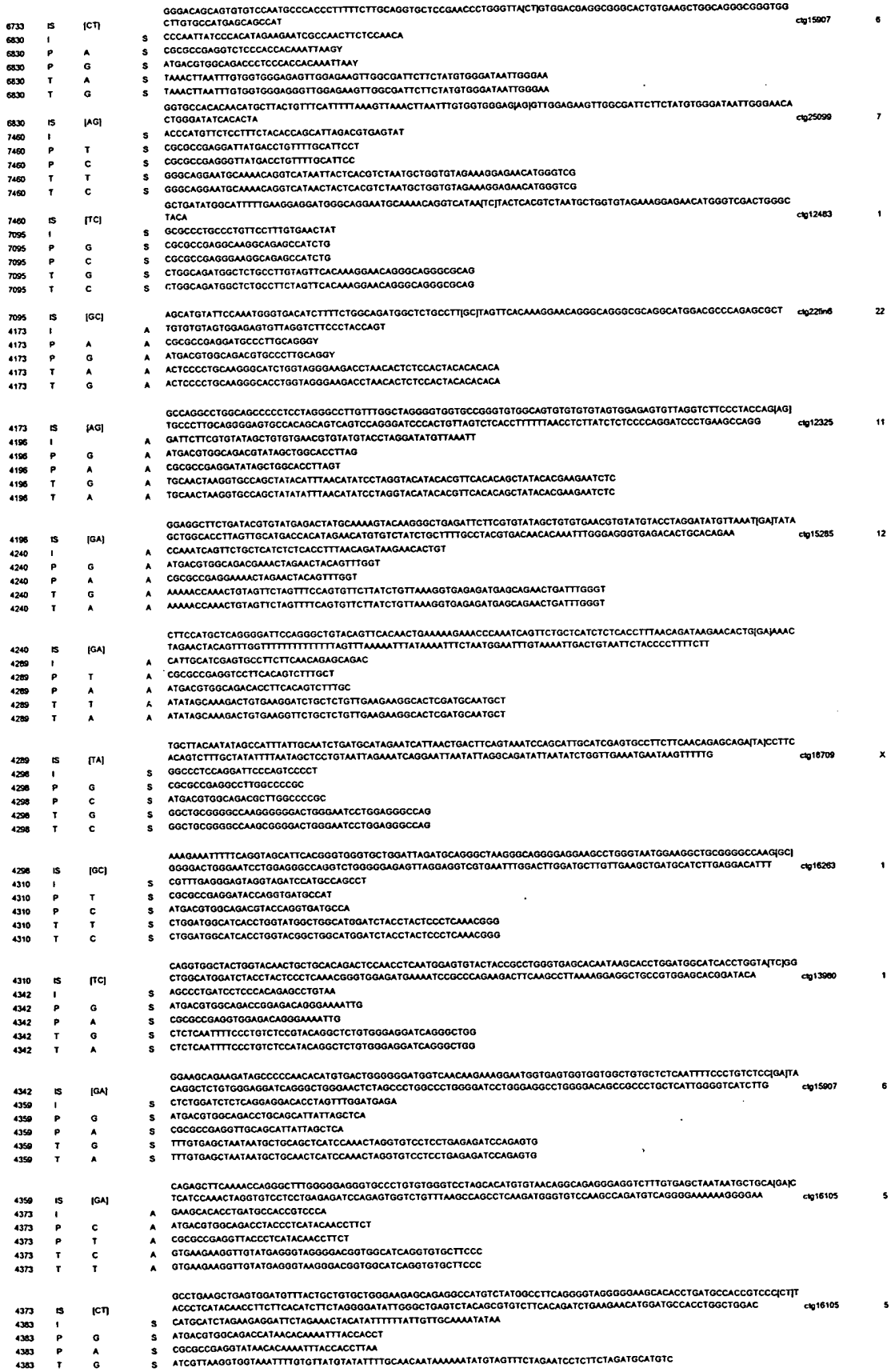

GGGACAGCAGTGTGTCCAATGCCCACCCTTTTTCTTGCAGGTGCTCCGAACCCTGGGTTA[CT]GTGGACGAGGCGGGCACTGTGAAGCTGGCAGGGCGGGTGG
6733 IS [CT] CTTGTGCCATGAGCAGCCAT ctg15907 6
6830 I S CCCAATTATCCCACATAGAAGAATCGCCAACTTCTCCAACA
6830 P A S CGCGCCGAGGTCTCCCACCACAAATTAAGY
6830 P G S ATGACGTGGCAGACCCTCCCACCACAAATTAAY
6830 T A S TAAACTTAATTTGTGGTGGGAGAGTTGGAGAAGTTGGCGATTCTTCTATGTGGGATAATTGGGAA
6830 T G S TAAACTTAATTTGTGGTGGGAGGGTTGGAGAAGTTGGCGATTCTTCTATGTGGGATAATTGGGAA
GGTGCCACACAACATGCTTACTGTTTCATTTTTAAAGTTAAACTTAATTTGTGGTGGGAG[AG]GTTGGAGAAGTTGGCGATTCTTCTATGTGGGATAATTGGGAACA
6830 IS [AG] CTGGGATATCACACTA ctg25099 7
7460 I S ACCCATGTTCTCCTTTCTACACCAGCATTAGACGTGAGTAT
7460 P T S CGCGCCGAGGATTATGACCTGTTTTGCATTCCT
7460 P C S CGCGCCGAGGGTTATGACCTGTTTTGCATTCC
7460 T T S GGGCAGGAATGCAAAACAGGTCATAATTACTCACGTCTAATGCTGGTGTAGAAAGGAGAACATGGGTCG
7460 T C S GGGCAGGAATGCAAAACAGGTCATAACTACTCACGTCTAATGCTGGTGTAGAAAGGAGAACATGGGTCG
GCTGATATGGCATTTTTGAAGGAGGATGGGCAGGAATGCAAAACAGGTCATAA[TC]TACTCACGTCTAATGCTGGTGTAGAAAGGAGAACATGGGTCGACTGGGC
7460 IS [TC] TACA ctg12483 1
7095 I S GCGCCCTGCCCTGTTCCTTTGTGAACTAT
7095 P G S CGCGCCGAGGCAAGGCAGAGCCATCTG
7095 P C S CGCGCCGAGGGAAGGCAGAGCCATCTG
7095 T G S CTGGCAGATGGCTCTGCCTTGTAGTTCACAAAGGAACAGGGCAGGGCGCAG
7095 T C S CTGGCAGATGGCTCTGCCTTCTAGTTCACAAAGGAACAGGGCAGGGCGCAG
AGCATGTATTCCAAATGGGTGACATCTTTTCTGGCAGATGGCTCTGCCTT[GC]TAGTTCACAAAGGAACAGGGCAGGGCGCAGGCATGGACGCCCAGAGCGCT
7095 IS [GC] ctg22fin6 22
4173 I A TGTGTGTAGTGGAGAGTGTTAGGTCTTCCCTACCAGT
4173 P A A CGCGCCGAGGATGCCCTTGCAGGGY
4173 P G A ATGACGTGGCAGACGTGCCCTTGCAGGY
4173 T A A ACTCCCCTGCAAGGGCATCTGGTAGGGAAGACCTAACACTCTCCACTACACACACA
4173 T G A ACTCCCCTGCAAGGGCACCTGGTAGGGAAGACCTAACACTCTCCACTACACACACA
GCCAGGCCTGGCAGCCCCCTCCTAGGGCCTTGTTTGGCTAGGGGTGGTGCCGGGTGTGGCAGTGTGTGTAGTGGAGAGTGTTAGGTCTTCCCTACCAG[AG]
4173 IS [AG] TGCCCTTGCAGGGGAGTGCCACAGCAGTCAGTCCAGGGATCCCACTGTTAGTCTCACCTTTTTAACCTCTTATCTCTCCCCAGGATCCCTGAAGCCAGG ctg12325 11
4196 I A GATTCTTCGTGTATAGCTGTGTGAACGTGTATGTACCTAGGATATGTTAAATT
4196 P G A ATGACGTGGCAGACGTATAGCTGGCACCTTAG
4196 P A A CGCGCCGAGGATATAGCTGGCACCTTAGT
4196 T G A TGCAACTAAGGTGCCAGCTATACATTTAACATATCCTAGGTACATACACGTTCACACAGCTATACACGAAGAATCTC
4196 T A A TGCAACTAAGGTGCCAGCTATATATTTAACATATCCTAGGTACATACACGTTCACACAGCTATACACGAAGAATCTC
GGAGGCTTCTGATACGTGTATGAGACTATGCAAAAGTACAAGGGCTGAGATTCTTCGTGTATAGCTGTGTGAACGTGTATGTACCTAGGATATGTTAAAT[GA]TATA
4196 IS [GA] GCTGGCACCTTAGTTGCATGACCACATAGAACATGTGTCTATCTGCTTTTGCCTACGTGACAACACAAATTTGGGAGGGTGAGACACTGCACAGAA ctg15285 12
4240 I A CCAAATCAGTTCTGCTCATCTCTCACCTTTAACAGATAAGAACACTGT
4240 P G A ATGACGTGGCAGACGAAACTAGAACTACAGTTTGGT
4240 P A A CGCGCCGAGGAAAACTAGAACTACAGTTTGGT
4240 T G A AAAAACCAAACTGTAGTTCTAGTTTCCAGTGTTCTTATCTGTTAAAGGTGAGAGATGAGCAGAACTGATTTGGGT
4240 T A A AAAAACCAAACTGTAGTTCTAGTTTCAGTGTTCTTATCTGTTAAAGGTGAGAGATGAGCAGAACTGATTTGGGT
CTTCCATGCTCAGGGGATTCCAGGGCTGTACAGTTCACAACTGAAAAAGAAACCCAAATCAGTTCTGCTCATCTCTCACCTTTAACAGATAAGAACACTG[GA]AAAC
4240 IS [GA] TAGAACTACAGTTTGGTTTTTTTTTTTTTTAGTTTAAAAATTTATAAAATTTCTAATGGAATTTGTAAAATTGACTGTAATTCTACCCCTTTTCTT ctg15285 12
4289 I A CATTGCATCGAGTGCCTTCTTCAACAGAGCAGAC
4289 P T A CGCGCCGAGGTCCTTCACAGTCTTTGCT
4289 P A A ATGACGTGGCAGACACCTTCACAGTCTTTGC
4289 T T A ATATAGCAAAGACTGTGAAGGATCTGCTCTGTTGAAGAAGGCACTCGATGCAATGCT
4289 T A A ATATAGCAAAGACTGTGAAGGTTCTGCTCTGTTGAAGAAGGCACTCGATGCAATGCT
TGCTTACAATATAGCCATTTATTGCAATCTGATGCATAGAATCATTAACTGACTTCAGTAAATCCAGCATTGCATCGAGTGCCTTCTTCAACAGAGCAGA[TA]CCTTC
4289 IS [TA] ACAGTCTTTGCTATATTTTAATAGCTCCTGTAATTAGAAATCAGGAATTAATATTAGGCAGATATTAATATCTGGTTGAAATGAATAAGTTTTTG ctg18709 X
4298 I S GGCCCTCCAGGATTCCCAGTCCCCT
4298 P G S CGCGCCGAGGCCTTGGCCCCGC
4298 P C S ATGACGTGGCAGACGCTTGGCCCCGC
4298 T G S GGCTGCGGGGCCAAGGGGGGACTGGGAATCCTGGAGGGCCAG
4298 T C S GGCTGCGGGGCCAAGCGGGGACTGGGAATCCTGGAGGGCCAG
AAAGAAATTTTTCAGGTAGCATTCACGGGTGGGTGCTGGATTAGATGCAGGGCTAAGGGCAGGGGAGGAAGCCTGGGTAATGGAAGGCTGCGGGGCCAAG[GC]
4298 IS [GC] GGGGACTGGGAATCCTGGAGGGCCAGGTCTGGGGGAGAGTTAGGAGGTCGTGAATTTGGACTTGGATGCTTGTTGAAGCTGATGCATCTTGAGGACATTT ctg16263 1
4310 I S CGTTTGAGGGAGTAGGTAGATCCATGCCAGCCT
4310 P T S CGCGCCGAGGATACCAGGTGATGCCAT
4310 P C S ATGACGTGGCAGACGTACCAGGTGATGCCA
4310 T T S CTGGATGGCATCACCTGGTATGGCTGGCATGGATCTACCTACTCCCTCAAACGGG
4310 T C S CTGGATGGCATCACCTGGTACGGCTGGCATGGATCTACCTACTCCCTCAAACGGG
CAGGTGGCTACTGGTACAACTGCTGCACAGACTCCAACCTCAATGGAGTGTACTACCGCCTGGGTGAGCACAATAAGCACCTGGATGGCATCACCTGGTA[TC]GG
4310 IS [TC] CTGGCATGGATCTACCTACTCCCTCAAACGGGTGGAGATGAAAATCCGCCCAGAAGACTTCAAGCCTTAAAAGGAGGCTGCCGTGGAGCACGGATACA ctg13980 1
4342 I S AGCCCTGATCCTCCCACAGAGCCTGTAA
4342 P G S ATGACGTGGCAGACCGGAGACAGGGAAAATTG
4342 P A S CGCGCCGAGGTGGAGACAGGGAAAATTG
4342 T G S CTCTCAATTTTCCCTGTCTCCGTACAGGCTCTGTGGGAGGATCAGGGCTGG
4342 T A S CTCTCAATTTTCCCTGTCTCCATACAGGCTCTGTGGGAGGATCAGGGCTGG
GGAAGCAGAAGATAGCCCCCAACACATGTGACTGGGGGGATGGTCAACAAGAAAGGAATGGTGAGTGGTGGTGGCTGTGCTCTCAATTTTCCCTGTCTCC[GA]TA
4342 IS [GA] CAGGCTCTGTGGGAGGATCAGGGCTGGGAACTCTAGCCCTGGCCCTGGGGATCCTGGGAGGCCTGGGGACAGCCGCCCTGCTCATTGGGGTCATCTTG ctg15907 6
4359 I S CTCTGGATCTCTCAGGAGGACACCTAGTTTGGATGAGA
4359 P G S ATGACGTGGCAGACCTGCAGCATTATTAGCTCA
4359 P A S CGCGCCGAGGTTGCAGCATTATTAGCTCA
4359 T G S TTTGTGAGCTAATAATGCTGCAGCTCATCCAAACTAGGTGTCCTCCTGAGAGATCCAGAGTG
4359 T A S TTTGTGAGCTAATAATGCTGCAACTCATCCAAACTAGGTGTCCTCCTGAGAGATCCAGAGTG
CAGAGCTTCAAAACCAGGGCTTTGGGGGAGGGTGCCCTGTGTGGGTCCTAGCACATGTGTAACAGGCAGAGGGAGGTCTTTGTGAGCTAATAATGCTGCA[GA]C
4359 IS [GA] TCATCCAAACTAGGTGTCCTCCTGAGAGATCCAGAGTGGTCTGTTTAAGCCAGCCTCAAGATGGGTGTCCAAGCCAGATGTCAGGGGAAAAAAGGGGAA ctg16105 5
4373 I A GAAGCACACCTGATGCCACCGTCCCA
4373 P C A ATGACGTGGCAGACCTACCCTCATACAACCTTCT
4373 P T A CGCGCCGAGGTTACCCTCATACAACCTTCT
4373 T C A GTGAAGAAGGTTGTATGAGGGTAGGGGACGGTGGCATCAGGTGTGCTTCCC
4373 T T A GTGAAGAAGGTTGTATGAGGGTAAGGGACGGTGGCATCAGGTGTGCTTCCC
GCCTGAAGCTGAGTGGATGTTTACTGCTGTGCTGGGAAGAGCAGAGGCCATGTCTATGGCCTTCAGGGGTAGGGGGAAGCACACCTGATGCCACCGTCCC[CT]T
4373 IS [CT] ACCCTCATACAACCTTCTTCACATCTTCTAGGGGATATTGGGCTGAGTCTACAGCGTGTCTTCACAGATCTGAAGAACATGGATGCCACCTGGCTGGAC ctg16105 5
4383 I S CATGCATCTAGAAGAGGATTCTAGAAACTACATATTTTTTATTGTTGCAAAATATAA
4383 P G S ATGACGTGGCAGACCATAACACAAAATTTACCACCT
4383 P A S CGCGCCGAGGTATAACACAAAATTTACCACCTTAA
4383 T G S ATCGTTAAGGTGGTAAATTTTGTGTTATGTATATTTTGCAACAATAAAAAATATGTAGTTTCTAGAATCCTCTTCTAGATGCATGTC

FIGURE 129B

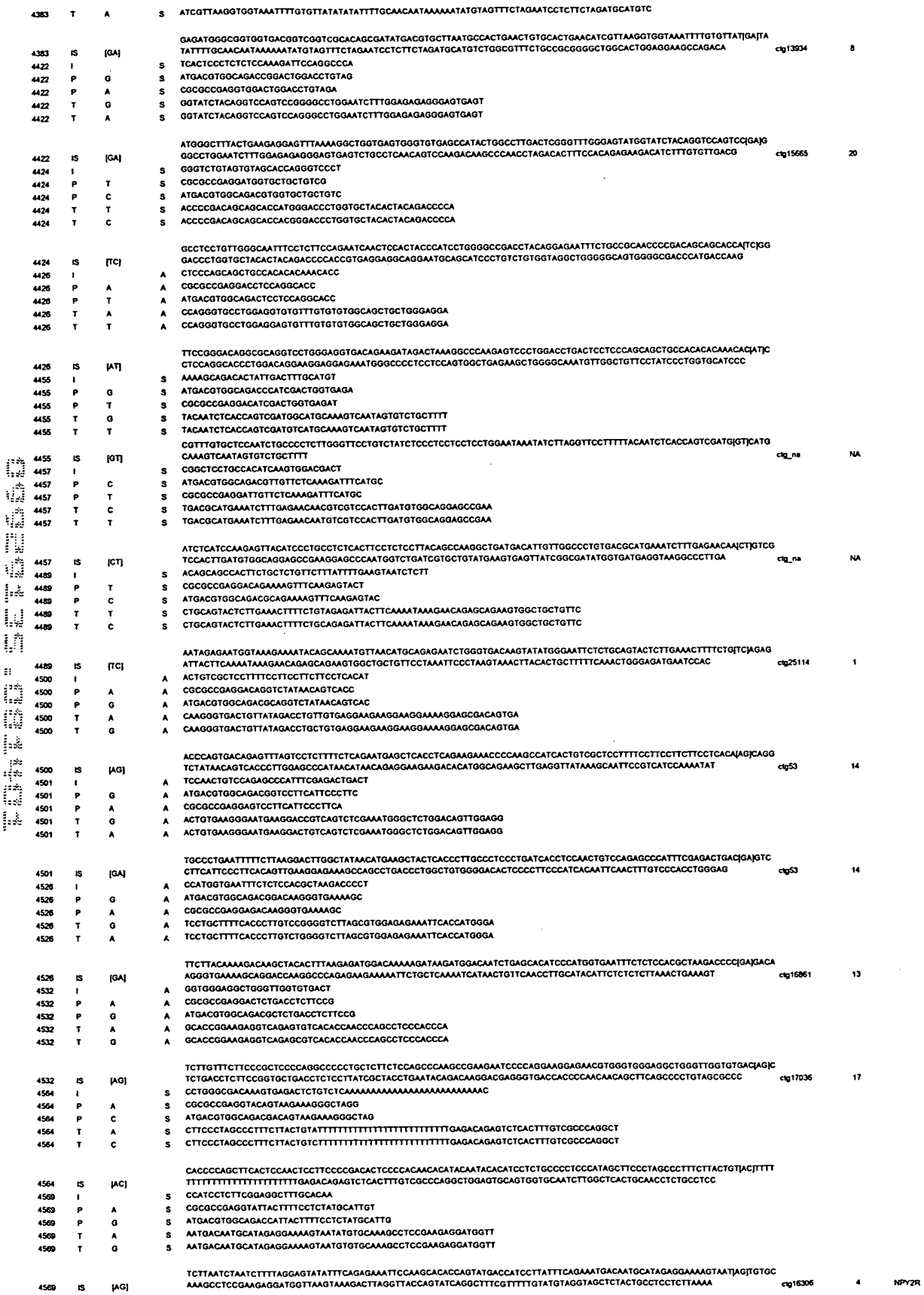

4383 T A S ATCGTTAAGGTGGTAAATTTTGTGTTATATATATTTTGCAACAATAAAAAATATGTAGTTTCTAGAATCCTCTTCTAGATGCATGTC
GAGATGGGCGGTGGTGACGGTCGGTCGCACAGCGATATGACGTGCTTAATGCCACTGAACTGTGCACTGAACATCGTTAAGGTGGTAAATTTTGTGTTAT[GA]TA
4383 IS [GA] TATTTTGCAACAATAAAAAATATGTAGTTTCTAGAATCCTCTTCTAGATGCATGTCTGGCGTTTCTGCCGCGGGGCTGGCACTGGAGGAAGCCAGACA ctg13934 8
4422 I S TCACTCCCTCTCTCCAAAGATTCCAGGCCCA
4422 P G S ATGACGTGGCAGACCGGACTGGACCTGTAG
4422 P A S CGCGCCGAGGTGGACTGGACCTGTAGA
4422 T G S GGTATCTACAGGTCCAGTCCGGGGCCTGGAATCTTTGGAGAGAGGGAGTGAGT
4422 T A S GGTATCTACAGGTCCAGTCCAGGGCCTGGAATCTTTGGAGAGAGGGAGTGAGT
ATGGGCTTTACTGAAGAGGAGTTTAAAAGGCTGGTGAGTGGGTGTGAGCCATACTGGCCTTGACTCGGGTTTGGGAGTATGGTATCTACAGGTCCAGTCC[GA]G
4422 IS [GA] GGCCTGGAATCTTTGGAGAGAGGGAGTGAGTCTGCCTCAACAGTCCAAGACAAGCCCAACCTAGACACTTTCCACAGAGAAGACATCTTTGTGTTGACG ctg15665 20
4424 I S GGGTCTGTAGTGTAGCACCAGGGTCCCT
4424 P T S CGCGCCGAGGATGGTGCTGCTGTCG
4424 P C S ATGACGTGGCAGACGTGGTGCTGCTGTC
4424 T T S ACCCCGACAGCAGCACCATGGGACCCTGGTGCTACACTACAGACCCCA
4424 T C S ACCCCGACAGCAGCACCACGGGACCCTGGTGCTACACTACAGACCCCA
GCCTCCTGTTGGGCAATTTCCTCTTCCAGAATCAACTCCACTACCCATCCTGGGGCCGACCTACAGGAGAATTTCTGCCGCAACCCCGACAGCAGCACCA[TC]GG
4424 IS [TC] GACCCTGGTGCTACACTACAGACCCCACCGTGAGGAGGCAGGAATGCAGCATCCCTGTCTGTGGTAGGCTGGGGGCAGTGGGGCGACCCATGACCAAG
4426 I A CTCCCAGCAGCTGCCACACACAAACACC
4426 P A A CGCGCCGAGGACCTCCAGGCACC
4426 P T A ATGACGTGGCAGACTCCTCCAGGCACC
4426 T A A CCAGGGTGCCTGGAGGTGTGTTTGTGTGTGGCAGCTGCTGGGAGGA
4426 T T A CCAGGGTGCCTGGAGGAGTGTTTGTGTGTGGCAGCTGCTGGGAGGA
TTCCGGGACAGGCGCAGGTCCTGGGAGGTGACAGAAGATAGACTAAAGGCCCAAGAGTCCCTGGACCTGACTCCTCCCAGCAGCTGCCACACACAAACAC[AT]C
4426 IS [AT] CTCCAGGCACCCTGGACAGGAAGGAGGAGAAATGGGCCCCTCCTCCAGTGGCTGAGAAGCTGGGGCAAATGTTGGCTGTTCCTATCCCTGGTGCATCCC
4455 I S AAAAGCAGACACTATTGACTTTGCATGT
4455 P G S ATGACGTGGCAGACCCATCGACTGGTGAGA
4455 P T S CGCGCCGAGGACATCGACTGGTGAGAT
4455 T G S TACAATCTCACCAGTCGATGGCATGCAAAGTCAATAGTGTCTGCTTTT
4455 T T S TACAATCTCACCAGTCGATGTCATGCAAAGTCAATAGTGTCTGCTTTT
CGTTTGTGCTCCAATCTGCCCCTCTTGGGTTCCTGTCTATCTCCCTCCTCCTCCTGGAATAAATATCTTAGGTTCCTTTTTACAATCTCACCAGTCGATG[GT]CATG
4455 IS [GT] CAAAGTCAATAGTGTCTGCTTTT ctg_na NA
4457 I S CGGCTCCTGCCACATCAAGTGGACGACT
4457 P C S ATGACGTGGCAGACGTTGTTCTCAAAGATTTCATGC
4457 P T S CGCGCCGAGGATTGTTCTCAAAGATTTCATGC
4457 T C S TGACGCATGAAATCTTTGAGAACAATGTCGTCCACTTGATGTGGCAGGAGCCGAA
4457 T T S TGACGCATGAAATCTTTGAGAACAATGTCGTCCACTTGATGTGGCAGGAGCCGAA
ATCTCATCCAAGAGTTACATCCCTGCCTCTCACTTCCTCTCCTTACAGCCAAGGCTGATGACATTGTTGGCCCTGTGACGCATGAAATCTTTGAGAACAA[CT]GTCG
4457 IS [CT] TCCACTTGATGTGGCAGGAGCCGAAGGAGCCCAATGGTCTGATCGTGCTGTATGAAGTGAGTTATCGGCGATATGGTGATGAGGTAAGGCCCTTGA ctg_na NA
4489 I S ACAGCAGCCACTTCTGCTCTGTTCTTTATTTTGAAGTAATCTCTT
4489 P T S CGCGCCGAGGACAGAAAAGTTTCAAGAGTACT
4489 P C S ATGACGTGGCAGACGCAGAAAAGTTTCAAGAGTAC
4489 T T S CTGCAGTACTCTTGAAACTTTTCTGTAGAGATTACTTCAAAATAAAGAACAGAGCAGAAGTGGCTGCTGTTC
4489 T C S CTGCAGTACTCTTGAAACTTTTCTGCAGAGATTACTTCAAAATAAAGAACAGAGCAGAAGTGGCTGCTGTTC
AATAGAGAATGGTAAAGAAAATACAGCAAAATGTTAACATGCAGAGAATCTGGGTGACAAGTATATGGGAATTCTCTGCAGTACTCTTGAAACTTTTCTG[TC]AGAG
4489 IS [TC] ATTACTTCAAAATAAAGAACAGAGCAGAAGTGGCTGCTGTTCCTAAATTCCCTAAGTAAACTTACACTGCTTTTTCAAACTGGGAGATGAATCCAC ctg25114 1
4500 I A ACTGTCGCTCCTTTTCCTTCCTTCTTCCTCACAT
4500 P A A CGCGCCGAGGACAGGTCTATAACAGTCACC
4500 P G A ATGACGTGGCAGACGCAGGTCTATAACAGTCAC
4500 T A A CAAGGGTGACTGTTATAGACCTGTTGTGAGGAAGAAGGAAGGAAAAGGAGCGACAGTGA
4500 T G A CAAGGGTGACTGTTATAGACCTGCTGTGAGGAAGAAGGAAGGAAAAGGAGCGACAGTGA
ACCCAGTGACAGAGTTTAGTCCTCTTTTCTCAGAATGAGCTCACCTCAGAAGAAACCCCAAGCCATCACTGTCGCTCCTTTTCCTTCCTTCTTCCTCACA[AG]CAGG
4500 IS [AG] TCTATAACAGTCACCCTTGGAGCCCATAACATAACAGAGGAAGAAGACACATGGCAGAAGCTTGAGGTTATAAAGCAATTCCGTCATCCAAAATAT ctg53 14
4501 I A TCCAACTGTCCAGAGCCCATTTCGAGACTGACT
4501 P G A ATGACGTGGCAGACGGTCCTTCATTCCCTTC
4501 P A A CGCGCCGAGGAGTCCTTCATTCCCTTCA
4501 T G A ACTGTGAAGGGAATGAAGGACCGTCAGTCTCGAAATGGGCTCTGGACAGTTGGAGG
4501 T A A ACTGTGAAGGGAATGAAGGACTGTCAGTCTCGAAATGGGCTCTGGACAGTTGGAGG
TGCCCTGAATTTTTCTTAAGGACTTGGCTATAACATGAAGCTACTCACCCTTGCCCTCCCTGATCACCTCCAACTGTCCAGAGCCCATTTCGAGACTGAC[GA]GTC
4501 IS [GA] CTTCATTCCCTTCACAGTTGAAGGAGAAAGCCAGCCTGACCCTGGCTGTGGGGACACTCCCCTTCCCATCACAATTCAACTTTGTCCCACCTGGGAG ctg53 14
4526 I A CCATGGTGAATTTCTCTCCACGCTAAGACCCCT
4526 P G A ATGACGTGGCAGACGGACAAGGGTGAAAAGC
4526 P A A CGCGCCGAGGAGACAAGGGTGAAAAGC
4526 T G A TCCTGCTTTTCACCCTTGTCCGGGGTCTTAGCGTGGAGAGAAATTCACCATGGGA
4526 T A A TCCTGCTTTTCACCCTTGTCTGGGGTCTTAGCGTGGAGAGAAATTCACCATGGGA
TTCTTACAAAAGACAAGCTACACTTTAAGAGATGGACAAAAAGATAAGATGGACAATCTGAGCACATCCCATGGTGAATTTCTCTCCACGCTAAGACCCC[GA]GACA
4526 IS [GA] AGGGTGAAAAGCAGGACCAAGGCCCAGAGAAGAAAAATTCTGCTCAAAATCATAACTGTTCAACCTTGCATACATTCTCTCTCTTAAACTGAAAGT ctg16861 13
4532 I A GGTGGGAGGCTGGGTTGGTGTGACT
4532 P A A CGCGCCGAGGACTCTGACCTCTTCCG
4532 P G A ATGACGTGGCAGACGCTCTGACCTCTTCCG
4532 T A A GCACCGGAAGAGGTCAGAGTGTCACACCAACCCAGCCTCCCACCCA
4532 T G A GCACCGGAAGAGGTCAGAGCGTCACACCAACCCAGCCTCCCACCCA
TCTTGTTTCTTCCCGCTCCCCAGGCCCCCTGCTCTTCTCCAGCCCAAGCCGAAGAATCCCCAGGAAGGAGAACGTGGGTGGGAGGCTGGGTTGGTGTGAC[AG]C
4532 IS [AG] TCTGACCTCTTCCGGTGCTGACCTCTCCTTATCGCTACCTGAATACAGACAAGGACGAGGGTGACCACCCCAACAACAGCTTCAGCCCCTGTAGCGCCC ctg17036 17
4564 I S CCTGGGCGACAAAGTGAGACTCTGTCTCAAAAAAAAAAAAAAAAAAAAAAAAAAC
4564 P A S CGCGCCGAGGTACAGTAAGAAAGGGCTAGG
4564 P C S ATGACGTGGCAGACGACAGTAAGAAAGGGCTAG
4564 T A S CTTCCCTAGCCCTTTCTTACTGTATTTTTTTTTTTTTTTTTTTTTTTTTTTTTGAGACAGAGTCTCACTTTGTCGCCCAGGCT
4564 T C S CTTCCCTAGCCCTTTCTTACTGTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTGAGACAGAGTCTCACTTTGTCGCCCAGGCT
CACCCCAGCTTCACTCCAACTCCTTCCCCGACACTCCCCACAACACATACAATACACATCCTCTGCCCCTCCCATAGCTTCCCTAGCCCTTTCTTACTGT[AC]TTTT
4564 IS [AC] TTTTTTTTTTTTTTTTTTTTTTTGAGACAGAGTCTCACTTTGTCGCCCAGGCTGGAGTGCAGTGGTGCAATCTTGGCTCACTGCAACCTCTGCCTCC
4569 I S CCATCCTCTTCGGAGGCTTTGCACAA
4569 P A S CGCGCCGAGGTATTACTTTTCCTCTATGCATTGT
4569 P G S ATGACGTGGCAGACCATTACTTTTCCTCTATGCATTG
4569 T A S AATGACAATGCATAGAGGAAAAGTAATATGTGCAAAGCCTCCGAAGAGGATGGTT
4569 T G S AATGACAATGCATAGAGGAAAAGTAATGTGTGCAAAGCCTCCGAAGAGGATGGTT
TCTTAATCTAATCTTTTAGGAGTATATTTCAGAGAAATTCCAAGCACACCAGTATGACCATCCTTATTTCAGAAATGACAATGCATAGAGGAAAAGTAAT[AG]TGTGC
4569 IS [AG] AAAGCCTCCGAAGAGGATGGTTAAGTAAAGACTTAGGTTACCAGTATCAGGCTTTCGTTTTTGTATGTAGGTAGCTCTACTGCCTCCTCTTAAAA ctg16306 4 NPY2R

FIGURE 129B

4578	I		A	AGCACTTTTATGGCACAAATGATCACTATTTTCTTGACCCCTACTTACT			
4578	P	G	A	ATGACGTGGCAGACGATCCTGGGAGATGTATTTG			
4578	P	A	A	CGCGCCGAGGAATCCTGGGAGATGTATTTG			
4578	T	G	A	AACCCAAATACATCTCCCAGGATCGTAAGTAGGGGTCAAGAAAATAGTGATCATTTGTGCCATAAAAGTGCTCA			
4578	T	A	A	AACCCAAATACATCTCCCAGGATTGTAAGTAGGGGTCAAGAAAATAGTGATCATTTGTGCCATAAAAGTGCTCA			
4578	IS	[GA]		ATGTGTGTATGTTTTAATTGCAGTTTGAATGATATTGTTGCTGTGGGACCTGAGCACTTTTATGGCACAAATGATCACTATTTTCTTGACCCCTACTTAC[GA]ATCCT GGGAGATGTATTTGGGTTTAGCGTGGTCGTATGTTGTCTACTATAGTCCAAGTGAAGTTCGAGTGGTGGCAGAAGGATTTGATTTTGCTAATGGA	ctg19247	7	
4591	I		A	GTCATCTTCACCATCATGATTGTTTACTTTCTCTTCTGGACTCCCTATAAA			
4591	P	T	A	CGCGCCGAGGTATTGTCATTCTCCTGAACACY			
4591	P	C	A	ATGACGTGGCAGACCATTGTCATTCTCCTGAACAY			
4591	T	T	A	GAAGGTGTTCAGGAGAATGACAATATTATAGGGAGTCCAGAAGAGAAAGTAAACAATCATGATGGTGAAGATGACTC			
4591	T	C	A	GAAGGTGTTCAGGAGAATGACAATGTTATAGGGAGTCCAGAAGAGAAAGTAAACAATCATGATGGTGAAGATGACTC			
4591	IS	[TC]		AAACCCTGCTTCGGTGTCGAAACGAGAAGAAGAGGCATAGGGCAGTGAGAGTCATCTTCACCATCATGATTGTTTACTTTCTCTTCTGGACTCCCTATAA[TC]ATTG TCATTCTCCTGAACACCTTCCAGGAATTCTTCGGCCTGAGTAACTGTGAAAGCACCAGTCAACTGGACCAAGCCACGCAGGTGACAGAGACTCTTG	ctg14493	3	CCR2
4601	I		A	GGGTAAACCTCCCCACATTGCCATGGCATTTATAT			
4601	P	A	A	CGCGCCGAGGAACTGCCATGGCACTY			
4601	P	C	A	ATGACGTGGCAGACCACTGCCATGGCACY			
4601	T	A	A	CACCAGTGCCATGGCAGTTTATAAATGCCATGGCAATGTGGGGAGGTTTACCCTA			
4601	T	C	A	CACCAGTGCCATGGCAGTGTATAAATGCCATGGCAATGTGGGGAGGTTTACCCTA			
4601	IS	[AC]		GAAAGGATTCAAGAGTGAGTGGGGAATTCGTGGAACTGAGGGCTCCTCCCCTTTTTAGACCATATAGGGTAAACCTCCCCACATTGCCATGGCATTTATA[AC]ACT GCCATGGCACTGGTGGGTGCTTCCTTTAACATGCTAATGCATTATAATTAGCGTAAAATGAGCAGTGAGGATGACCAGAGGTCGCTTTCTTTGCCAT	ctg15972	16	
4603	I		A	CTCATCCTGTGACCGAGAATGCGGACA			
4603	P	C	A	ATGACGTGGCAGACCCTCCTGGGAGTGCY			
4603	P	T	A	CGCGCCGAGGTCTCCTGGGAGTGCAY			
4603	T	C	A	GGGCTGCACTCCCAGGAGGGTCCGCATTCTCGGTCACAGGATGAGAT			
4603	T	T	A	GGGCTGCACTCCCAGGAGAGTCCGCATTCTCGGTCACAGGATGAGAT			
4603	IS	[CT]		TTCACTGCATACTGTTTTATCAGTGGGGTCTTTGTGACCTCTATCGTATTAAACCAGTCTTGCCCAATTTCTATCTCATCCTGTGACCGAGAATGCGGAC[CT]CTCC TGGGAGTGCAGCCCAGCAGGTCTCAGCCTCATTTTACCCAGCCCCCTGTTCAAGATGGAGTCGCTCTGGTTCCAACGTCTCTAACGCGGGGCCCCT	ctg15972	16	
4623	I		A	CGTTGTGAGTTGGAGGTGGTAAAAGGGCCTGT			
4623	P	G	A	ATGACGTGGCAGACGGCACCAGCACATTCY			
4623	P	C	A	CGCGCCGAGGCGCACCAGCACATTCY			
4623	T	G	A	ACAAGAATGTGCTGGTGCCCAGGCCCTTTTACCACCTCCAACTCACAACGTC			
4623	T	C	A	ACAAGAATGTGCTGGTGCGCAGGCCCTTTTACCACCTCCAACTCACAACGTC			
4623	IS	[GC]		GGACCTGCCTCTCCTCGTTGCCGCCTTCTTCTTCCTTGTCCTTGCTGTTTTGGGTGAGTCAGGAGAGGACGTTGTGAGTTGGAGGTGGTAAAAGGGCCT[GC]G CACCAGCACATTCTTGTGTTATTTTTCATGCCTCTTTCAGGTGAGACATTAATCCCTCACTATTCTGGTCGTGTGATTGACATCCTGGGAGGTGATTTT	ctg15907	6	
4629	I		S	GGATGGCTGGACAAACAAAATGTAGTATATACTACAATATACCTTCTCCCCTAAA			
4629	P	G	S	ATGACGTGGCAGACCGGCTGAGAAGAGAACAY			
4629	P	A	S	CGCGCCGAGGTGGCTGAGAAGAGAACAY			
4629	T	G	S	GAGATGTTCTCTTCTCAGCCGTTAGGGGAGAAGGTATATTGTAGTATATACTACATTTTGTTTGTCCAGCCATCCAA			
4629	T	A	S	GAGATGTTCTCTTCTCAGCCATTAGGGGAGAAGGTATATTGTAGTATATACTACATTTTGTTTGTCCAGCCATCCAA			
4629	IS	[GA]		ATGTAAGGGAACCCCAAAGGGAGAATAAAACTGACAGGTGAGGAGGCTTCCACATTTGTGGCTAGAGGATCCCCTAGAGAGAGATGTTCTCTTCTCAGCC[GA]TT AGGGGAGAAGGTATATTGTAGTATATACTACATTTTGTTTGTCCAGCCATCCAACAATGGATATTTGACTTCAGAAGATTCATGATTCTCCAGAACTG	ctg15907	6	
4631	I		S	CCCACAGCTCAGCATCAGCATCTGCACT			
4631	P	G	S	ATGACGTGGCAGACCCCCAAGTGCAGCAY			
4631	P	T	S	CGCGCCGAGGACCCAAGTGCAGCAY			
4631	T	G	S	CAGGTGCTGCACTTGGGGGTGCAGATGCTGATGCTGAGCTGTGGGCT			
4631	T	T	S	CAGGTGCTGCACTTGGGTGTGCAGATGCTGATGCTGAGCTGTGGGCT			
4631	IS	[GT]		GGCCTTTGCAGCTCAGTCTCATAGAGGCAGAGAGGGGGAAAGAATGGGAAGATTCCCAGCCTCATCTCTTTCTTCTCCTCTTCCAGGTGCTGCACTTGGG[GT]GT GCAGATGCTGATGCTGAGCTGTGGGCTGCAGCAGATGCAGGATGGGGAGCTCACCCAGGGCAGCCTGCTTTCCTTTATGATCTACCAGGAGAGCGTGG	ctg15907	6	
4634	I		A	CAGACTTACTCTTAGTGGTGAAGGTCGTGTCCCTGTAT			
4634	P	A	A	CGCGCCGAGGACTTGATGTTTGCTGTTCCY			
4634	P	G	A	ATGACGTGGCAGACGCTTGATGTTTGCTGTTCY			
4634	T	A	A	CAGAGGAACAGCAAACATCAAGTTACAGGGACACGACCTTCACCACTAAGAGTAAGTCTGAT			
4634	T	G	A	CAGAGGAACAGCAAACATCAAGCTACAGGGACACGACCTTCACCACTAAGAGTAAGTCTGAT			
4634	IS	[AG]		TGGAATATACACAGGTATCTTCTACAAATTGTAAGCTTGCTCCTTCAGTAAAAAAGAGAAAATCAGACTTACTCTTAGTGGTGAAGGTCGTGTCCCTGTA[AG]CTTG ATGTTTGCTGTTCCTCTGCCCTTTCCTCCATTCCTACGTCTCCTTCCCCACACACTGAATTCTTCAGCCTCCCTCTTGATCAAGAGTCTTTGTTTG	ctg15907	6	
4637	I		S	CTGTCCCGCAGCCAGCTGGCTA			
4637	P	A	S	CGCGCCGAGGTCCCTTCTCCCCTACAY			
4637	P	G	S	ATGACGTGGCAGACCCCCTTCTCCCCTACY			
4637	T	A	S	CAGATGTAGGGGAGAAGGGAAGCCAGCTGGCTGCGGGACAGAA			
4637	T	G	S	CAGATGTAGGGGAGAAGGGGAGCCAGCTGGCTGCGGGACAGAA			
4637	IS	[AG]		AAGTACCTGCTGTGCACTTGTCCCTCCTTGTGTGTTGTCTGTGTCACTTGTATCTGAGGAAGGGAATTTCTCTGATTTCCTCAGATGTAGGGGAGAAGGG[AG]AGC CAGCTGGCTGCGGGACAGAAACAACGTCTGGCCATTGCCCGGGCCCTTGTACGAGACCCGCGGGTCCTCATCCTGGATGAGGCTACTAGTGCCCTAG	ctg15907	6	
4693	I		A	ACAGATAAGCAGGGGCCCAATCAGCCCT			
4693	P	A	A	CGCGCCGAGGAGAGTTGAAATCCTCGATCY			
4693	P	C	A	ATGACGTGGCAGACCGAGTTGAAATCCTCGATCY			
4693	T	A	A	ATCTGATCGAGGATTTCAACTCTGGGCTGATTGGGCCCCTGCTTATCTGTAA			
4693	T	C	A	ATCTGATCGAGGATTTCAACTCGGGGCTGATTGGGCCCCTGCTTATCTGTAA			
4693	IS	[AC]		CCCATGACAGAACTCCTGACCATTCCAACATTTAGTTGTTGAATCTTTTGGTGGGGGTGTTCTTACCTTTTTTACAGATAAGCAGGGGCCCAATCAGCCC[AC]GAG TTGAAATCCTCGATCAGATTTTCATGGGAGTAATAGATGTGTGTGAGGCATGGAGGGTCATCATGGGTGGGTCCACTGTCCTCACTGATACTCCATT	ctg13446	1	
4695	I		S	GAAAATTGTCTACAGAGAGTATGAACCATATTTTAAGAAAGAAAAACCACAT			
4695	P	C	S	ATGACGTGGCAGACGTCTACCATTTCAGGTAAGCY			
4695	P	T	S	CGCGCCGAGGATCTACCATTTCAGGTAAGCY			
4695	T	C	S	TCAGGCTTACCTGAAATGGTAGACTGTGGTTTTTCTTTCTTAAAATATGGTTCATACTCTCTGTAGACAATTTTCTT			
4695	T	T	S	TCAGGCTTACCTGAAATGGTAGATTGTGGTTTTTCTTTCTTAAAATATGGTTCATACTCTCTGTAGACAATTTTCTT			
4695	IS	[CT]		AGTAAATGGATATTTTAGATGCATGTGAATGCCAAATTACCCATAGAAATTTATCTTTAAAATTAAAAAAGTATATTTCAGGCTTACCTGAAATGGTAGA[CT]TGTGGT TTTTCTTTCTTAAAATATGGTTCATACTCTCTGTAGACAATTTTCTTAAAGGAAGTTACAGAAAGATTCAAACTGGAAATAAAATACAAAAACT	ctg13446	1	
4842	I		S	CCTGGTTAGAGGATCTTCGCTTGGGCTCTTAGTT			
4842	P	C	S	ATGACGTGGCAGACGGATGTTGAGGCCTG			
4842	P	T	S	CGCGCCGAGGAGATGTTGAGGCCTGG			
4842	T	C	S	CCTCCCAGGCCTCAACATCCACTAAGAGCCCAAGCGAAGATCCTCTAACCAGGAA			
4842	T	T	S	CCTCCCAGGCCTCAACATCTACTAAGAGCCCAAGCGAAGATCCTCTAACCAGGAA			
4842	IS	[CT]		AAAAGGTGCCAAGAGCCACCAAGGTGAGAAAAATGCAAGTTCCTCCCAGGCCTCAACATC[CT]ACTAAGAGCCCAAGCGAAGATCCTCTAACCAGGAAGTCAGGG TCGTTGGTGCAGTTCCTG	ctg13414	X	MAGEB2
4843	I		A	TCTCTCAGGGTCTATCCTCCACTGTGCAGTCTCT			
4843	P	G	A	ATGACGTGGCAGACGCACAGACCCTCTAATCA			
4843	P	A	A	CGCGCCGAGGACACAGACCCTCTAATCAT			
4843	T	G	A	CTTCATGATTAGAGGGTCTGTGCGAGACTGCACAGTGGAGGATAGACCCTGAGAGAAG			



FIGURE 129B

4843	T	A	A	CTTCATGATTAGAGGGTCTGTGTGAGACTGCACAGTGGAGGATAGACCCTGAGAGAAG			
4843	IS	[GA]		ACAGCAAAATTGAGAAAAAGCAAAGCTTCTCTCAGGGTCTATCCTCCACTGTGCAGTCTC[GA]CACAGACCCTCTAATCATGAAGACAAATATGTTGGTGCAGTTCC TGATGGAAATGTACAA	ctg13414	X	MAGEB3
4844	I		S	CCATCAGGAACTGCACCAACATATTTGTCTTCATGT			
4844	P	T	S	CGCGCCGAGGATTAGAGGGTCTGTGCG			
4844	P	C	S	ATGACGTGGCAGACGTTAGAGGGTCTGTGCG			
4844	T	T	S	GTCTCGCACAGACCCTCTAATCATGAAGACAAATATGTTGGTGCAGTTCCTGATGGAA			
4844	T	C	S	GTCTCGCACAGACCCTCTAACCATGAAGACAAATATGTTGGTGCAGTTCCTGATGGAA			
4844	IS	[TC]		AAAAGCAAAGCTTCTCTCAGGGTCTATCCTCCACTGTGCAGTCTCGCACAGACCCTCTAA[TC]CATGAAGACAAATATGTTGGTGCAGTTCCTGATGGAAATGTAC AAGATGAAAAAGCCCAT	ctg13414	X	MAGEB3
4858	I		A	GTTCATCTTTGGTTTTGTGGGCAACATGCTGGTCT			
4858	P	G	A	ATGACGTGGCAGACGTCCTCATCTTAATAAACTGCA			
4858	P	A	A	CGCGCCGAGGATCCTCATCTTAATAAACTGCA			
4858	T	G	A	TTTTTGCAGTTTATTAAGATGAGGACGACCAGCATGTTGCCCACAAAACCAAAGATGAACAC			
4858	T	A	A	TTTTTGCAGTTTATTAAGATGAGGATGACCAGCATGTTGCCCACAAAACCAAAGATGAACAC			
4858	IS	[GA]		CTCCTGCCTCCGCTCTACTCGCTGGTGTTCATCTTTGGTTTTGTGGGCAACATGCTGGTC[GA]TCCTCATCTTAATAAACTGCAAAAAGCTGAAGTGCTTGACTGA CATTTACCTGCTCAACC	ctg14493	3	CCR2
4860	I		A	CCAAAAAATTCATTTTGCAGCCTAATCCAGGTTTTCTGTCACTA			
4860	P	T	A	CGCGCCGAGGTGCAACCTAAAGTTTTGATTG			
4860	P	C	A	ATGACGTGGCAGACCGCAACCTAAAGTTTTGATT			
4860	T	T	A	TTTCCAATCAAAACTTTAGGTTGCAAGTGACAGAAAACCTGGATTAGGCTGCAAAATGAATTTTTTGGCT			
4860	T	C	A	TTTCCAATCAAAACTTTAGGTTGCGAGTGACAGAAAACCTGGATTAGGCTGCAAAATGAATTTTTTGGCT			
4860	IS	[TC]		TTCTCAGTTACCATCAGCCAAAAAATTCATTTTGCAGCCTAATCCAGGTTTTCTGTCACT[TC]GCAACCTAAAGTTTTGATTGGAAATTAGTCTCTCACCGGAACCCA AACATGATTTCGTCA	ctg13921	8	
4865	I		S	CCTGAGCCAGACCCTCCAAGAATGGCAGA			
4865	P	G	S	ATGACGTGGCAGACCTCGGCTCTTACCTGGY			
4865	P	A	S	CGCGCCGAGGTTCGGCTCTTACCTGGY			
4865	T	G	S	CACTCCAGGTAAGAGCCGAGCTGCCATTCTTGGAGGGTCTGGCTCAGGGA			
4865	T	A	S	CACTCCAGGTAAGAGCCGAACTGCCATTCTTGGAGGGTCTGGCTCAGGGA			
4865	IS	[GA]		TTACTGATGGTGCTGCTCACATCTGTGGTCCAGGGCAGGGCCACTCCAGGTAAGAGCCGA[GA]CTGCCATTCTTGGAGGGTCTGGCTCAGGGAACAATTCCTAG GGGACGTTATCTTTAAGGG	ctg15907	6	
4868	I		S	CCTCCCTCCCTTCTCTCCTTAATTGTCCAAGGGT			
4868	P	T	S	CGCGCCGAGGATGTGGGCTCCTGC			
4868	P	C	S	ATGACGTGGCAGACGTGTGGGCTCCTGC			
4868	T	T	S	TGGAGCAGGAGCCCACATCCCTTGGACAATTAAGGAGAGAAGGGAGGGAGGGG			
4868	T	C	S	TGGAGCAGGAGCCCACACCCCTTGGACAATTAAGGAGAGAAGGGAGGGAGGGG			
4868	IS	[TC]		TGAGGATTCAGTGCTCACGAAGAATGCCTCTTATTCCCCAGGGTGGAGCAGGAGCCCACA[TC]CCCTTGGACAATTAAGGAGAGAAGGGAGGGAGGGGGATAGG TTTTAGCCCCTGAAGGCAT	ctg15907	6	
4875	I		S	CTGACAGCTGGCTCCCAGCCTCGA			
4875	P	A	S	CGCGCCGAGGTCTACCTCTGCAGAGC			
4875	P	G	S	ATGACGTGGCAGACCCTACCTCTGCAGAGC			
4875	T	A	S	CTTTGCTCTGCAGAGGTAGACGAGGCTGGGAGCCAGCTGTCAGGG			
4875	T	G	S	CTTTGCTCTGCAGAGGTAGGCGAGGCTGGGAGCCAGCTGTCAGGG			
4875	IS	[AG]		CATGCGTGCACACATGTGGCTATACCGTTCTCATCTTGGCCCTTTGCTCTGCAGAGGTAG[AG]CGAGGCTGGGAGCCAGCTGTCAGGGGGTCAGCGACAGGCAG TGGCGTTGGCCCGAGCATT	ctg15907	6	
4881	I		S	CCACCCAGAACCCATTCTGGAGAAAGGAAAAAAATGAGAA			
4881	P	A	S	CGCGCCGAGGTAGTAAAATCGTCAGCCTCT			
4881	P	G	S	ATGACGTGGCAGACCAGTAAAATCGTCAGCCT			
4881	T	A	S	CTGAAGAGGCTGACGATTTTACTATCTCATTTTTTTCCTTTCTCCAGAATGGGTTCTGGGTGGGT			
4881	T	G	S	CTGAAGAGGCTGACGATTTTACTGTCTCATTTTTTTCCTTTCTCCAGAATGGGTTCTGGGTGGGT			
4881	IS	[AG]		TAATGGGTACTTTCTGACTGAATTTTATGAACTCATTCTGAAGAGGCTGACGATTTTACT[AG]TCTCATTTTTTTCCTTTCTCCAGAATGGGTTCTGGGTGGGTCCC CTGGGTGGTGGCTCTG	ctg15907	6	
4884	I		A	CAAGGCACAGACTCTCCAGGTAAGAACAGAGCAATTT			
4884	P	G	A	ATGACGTGGCAGACGTTTTTTTCCAGTGTGTATGC			
4884	P	A	A	CGCGCCGAGGATTTTTTTCCAGTGTGTATGC			
4884	T	G	A	TCTTGCATACACACTGGAAAAAAACAATTGCTCTGTTCTTACCTGGAGAGTCTGTGCCTTGAG			
4884	T	A	A	TCTTGCATACACACTGGAAAAAAATAATTGCTCTGTTCTTACCTGGAGAGTCTGTGCCTTGAG			
4884	IS	[GA]		ACCCGACTGGATTCCTCCATGACTCAAGGCACAGACTCTCCAGGTAAGAACAGAGCAATT[GA]TTTTTTTCCAGTGTGTATGCAAGAATTGGCATGGGGGAGTGAT GCCTTTCTTTGTAAGTC	ctg15907	6	
4890	I		A	CGCAAACACAACAAAGCCCGCAGACATTCTC			
4890	P	G	A	ATGACGTGGCAGACGTCCCCACGAAGAAC			
4890	P	T	A	CGCGCCGAGGTTCCCCACGAAGAACG			
4890	T	G	A	CGTCCGTTCTTCGTGGGGACAGAATGTCTGCGGGCTTTGTTGTGTTTGCGCC			
4890	T	T	A	CGTCCGTTCTTCGTGGGGAAAGAATGTCTGCGGGCTTTGTTGTGTTTGCGCC			
4890	IS	[GT]		CTGACCAGTCAGGACACACAAGAGGCCCGGCGCAAACACAACAAAGCCCGCAGACATTCT[GT]TCCCCACGAAGAACGGACGCCACTCGACTTCCTAGCATCTTG ACGGGCTATCCAAGCGCG	ctg14747	2	
4895	I		S	GCCCAGGGCTGGAGCCTGGCA			
4895	P	A	S	CGCGCCGAGGTTCTCACCTTCCCTCC			
4895	P	G	S	ATGACGTGGCAGACCTCTCACCTTCCCTCC			
4895	T	A	S	GATTGGAGGGAAGGTGAGAAGCCAGGCTCCAGCCCTGGGCTC			
4895	T	G	S	GATTGGAGGGAAGGTGAGAGGCCAGGCTCCAGCCCTGGGCTC			
4895	IS	[AG]		AAGAGGGAGCCCAATAAGTTTTTTGTGCCTCGGACTGTGATGATTGGAGGGAAGGTGAGA[AG]GCCAGGCTCCAGCCCTGGGCTCCCGTCCTTTGATATATCCAG GTTGAGGTCAGCCCAGCT	ctg17042	11	
4918	I		A	CTGAGAACCAGTATGGCCAGAGGGCCACA			
4918	P	C	A	ATGACGTGGCAGACCGCCTTCAACCTGTC			
4918	P	T	A	CGCGCCGAGGTGCCTTCAACCTGTCT			
4918	T	C	A	CCACAGACAGGTTGAAGGCGGTGGCCCTCTGGCCATACTGGTTCTCAGCC			
4918	T	T	A	CCACAGACAGGTTGAAGGCAGTGGCCCTCTGGCCATACTGGTTCTCAGCC			
4918	IS	[CT]		ACCCGAGGATGATGGAGAGTACTGGTGTGTGGCTGAGAACCAGTATGGCCAGAGGGCCAC[CT]GCCTTCAACCTGTCTGTGGAGTGTGAGTACCTTCCGCTCCC CTATGCTGGGGATGGACGG	ctg16920	19	
4918	I		A	GGCCTACTGTATGCTTCTTTTCTTTTTCTCTCTTTTCAACTAAGTCACCT			
4918	P	G	A	ATGACGTGGCAGACGTCAATTTATTAAGATGGCCATAA			
4918	P	A	A	CGCGCCGAGGATCAATTTATTAAGATGGCCATAAC			
4918	T	G	A	AATAGTTATGGCCATCTTAATAAATTGACGGTGACTTAGTTGAAAAGAGAGAAAAAGAAAAGAAGCATACAGTAGGCCCA			
4918	T	A	A	AATAGTTATGGCCATCTTAATAAATTGATGGTGACTTAGTTGAAAAGAGAGAAAAAGAAAAGAAGCATACAGTAGGCCCA			
4918	IS	[GA]		TATTTGCTCTGGGCCTACTGTATGCTTCTTTTCTTTTTCTCTCTTTTCAACTAAGTCACC[GA]TCAATTTATTAAGATGGCCATAACTATTCAAAACCTATGCTGAGTT CCTCAAGGCAGGGT	ctg15907	6	
4920	I		A	GTCTCCAGAGTGGACACATCCATAAAGAGGCCAAAA			
4920	P	C	A	ATGACGTGGCAGACCCCAGTCAAGGTCTAAGC			
4920	P	T	A	CGCGCCGAGGTCCAGTCAAGGTCTAAGC			
4920	T	C	A	AGATGCTTAGACCTTGACTGGGTTTGGCCTCTTTATGGATGTGTCCACTCTGGAGACAC			
4920	T	T	A	AGATGCTTAGACCTTGACTGGATTTGGCCTCTTTATGGATGTGTCCACTCTGGAGACAC			
4920	IS	[CT]		ACCACTGACCAACAGGAAAGTTTGTGTCTCCAGAGTGGACACATCCATAAAGAGGCCAAA[CT]CCAGTCAAGGTCTAAGCATCTGATGGCTATAACTTTGCTTCTTT GAAAGATAATAAAAAG	ctg17036	17	KRTHA8
4921	I		A	GATCATAGACACCACACGTGGAGAAGGAGCCTAGT			
4921	P	A	A	CGCGCCGAGGAGCATGATGCTTTGTGT			
4921	P	G	A	ATGACGTGGCAGACGGCATGATGCTTTGTGT			
4921	T	A	A	TCACACACAAAGCATCATGCTCTAGGCTCCTTCTCCACGTGTGGTGTCTATGATCAT			
4921	T	G	A	TCACACACAAAGCATCATGCCCTAGGCTCCTTCTCCACGTGTGGTGTCTATGATCAT			

FIGURE 129B

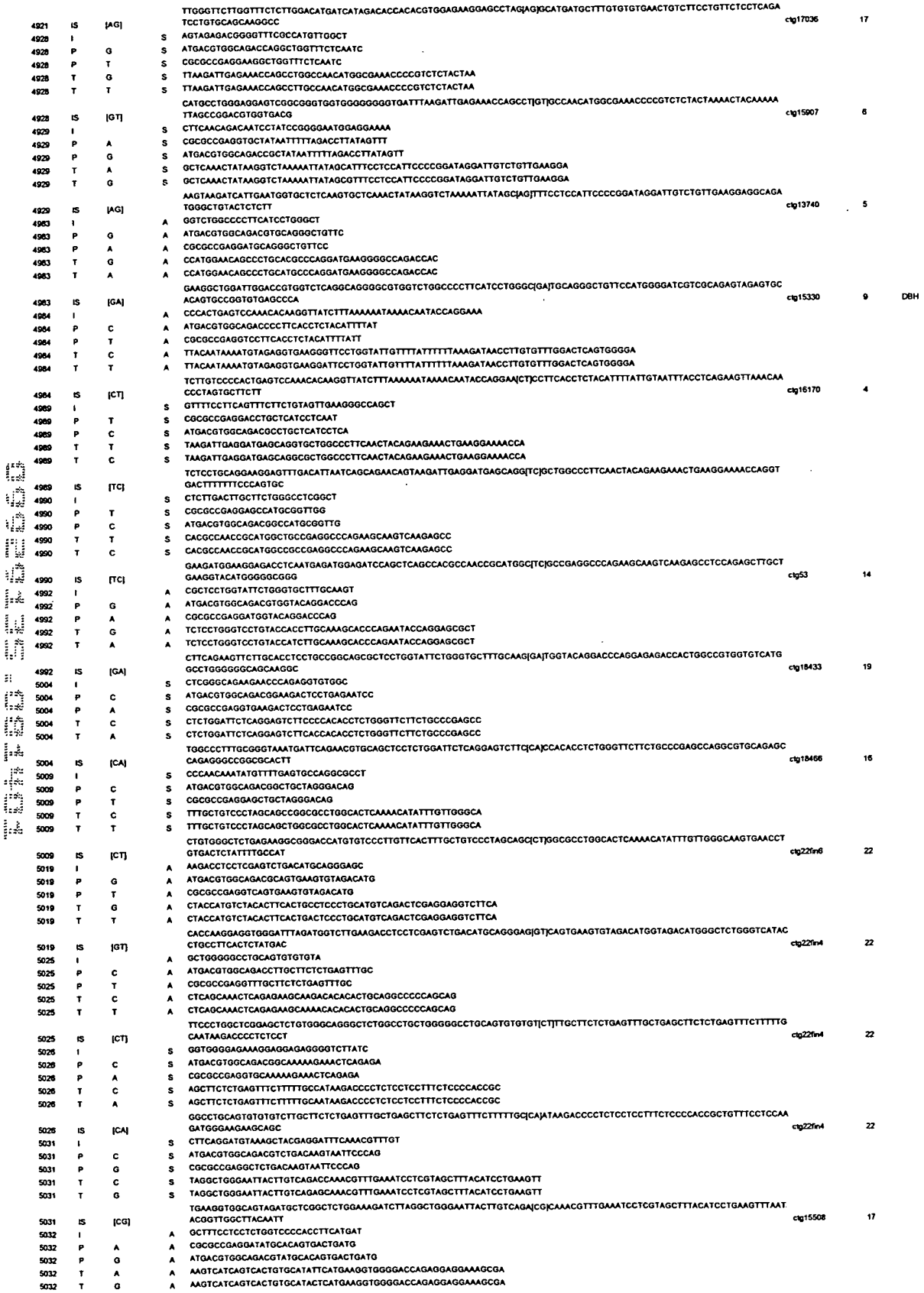

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AAGACCTCCTCGAGTCTGACATGCAGGGAGC
ATGACGTGGCAGACGCAGTGAAGTGTAGACATG
CGCGCCGAGGTCAGTGAAGTGTAGACATG
CTACCATGTCTACACTTCACTGCCTCCCTGCATGTCAGACTCGAGGAGGTCTTCA
CTACCATGTCTACACTTCACTGACTCCCTGCATGTCAGACTCGAGGAGGTCTTCA
CACCAAGGAGGTGGGATTTAGATGGTCTTGAAGACCTCCTCGAGTCTGACATGCAGGGAG[GT]CAGTGAAGTGTAGACATGGTAGACATGGGCTCTGGGTCATAC
CTGCCTTCACTCTATGAC
ctg22fin4
22
GCTGGGGGCCTGCAGTGTGTGTA
ATGACGTGGCAGACCTTGCTTCTCTGAGTTTGC
CGCGCCGAGGTTTGCTTCTCTGAGTTTGC
CTCAGCAAACTCAGAGAAGCAAGACACACACTGCAGGCCCCCAGCAG
CTCAGCAAACTCAGAGAAGCAAAACACACACTGCAGGCCCCCAGCAG
TTCCCTGGCTCGGAGCTCTGTGGGCAGGGCTCTGGCCTGCTGGGGGCCTGCAGTGTGTGT[CT]TTGCTTCTCTGAGTTTGCTGAGCTTCTCTGAGTTTCTTTTTG
CAATAAGACCCCTCTCCT
ctg22fin4
22
GGTGGGGAGAAAGGAGGAGAGGGGTCTTATC
ATGACGTGGCAGACGGCAAAAAGAAACTCAGAGA
CGCGCCGAGGTGCAAAAAGAAACTCAGAGA
AGCTTCTCTGAGTTTCTTTTTGCCATAAGACCCCTCTCCTCCTTTCTCCCCACCGC
AGCTTCTCTGAGTTTCTTTTTGCAATAAGACCCCTCTCCTCCTTTCTCCCCACCGC
GGCCTGCAGTGTGTGTCTTGCTTCTCTGAGTTTGCTGAGCTTCTCTGAGTTTCTTTTTGC[CA]ATAAGACCCCTCTCCTCCTTTCTCCCCACCGCTGTTTCCTCCAA
GATGGGAAGAAGCAGC
ctg22fin4
22
CTTCAGGATGTAAAGCTACGAGGATTTCAAACGTTTGT
ATGACGTGGCAGACGTCTGACAAGTAATTCCCAG
CGCGCCGAGGGCTCTGACAAGTAATTCCCAG
TAGGCTGGGAATTACTTGTCAGACCAAACGTTTGAAATCCTCGTAGCTTTACATCCTGAAGTT
TAGGCTGGGAATTACTTGTCAGAGCAAACGTTTGAAATCCTCGTAGCTTTACATCCTGAAGTT
TGAAGGTGGCAGTAGATGCTCGGCTCTGGAAAGATCTTAGGCTGGGAATTACTTGTCAGA[CG]CAAACGTTTGAAATCCTCGTAGCTTTACATCCTGAAGTTTAAT
ACGGTTGGCTTACAATT
ctg15508
17
GCTTTCCTCCTCTGGTCCCCACCTTCATGAT
CGCGCCGAGGATATGCACAGTGACTGATG
ATGACGTGGCAGACGTATGCACAGTGACTGATG
AAGTCATCAGTCACTGTGCATATTCATGAAGGTGGGGACCAGAGGAGGAAAGCGA
AAGTCATCAGTCACTGTGCATACTCATGAAGGTGGGGACCAGAGGAGGAAAGCGA

FIGURE 129B

				TTTCTGCTGTCTCCCCTCTGTCCCCTCACTCGCTTTCCTCCTCTGGTCCCCACCTTCATGA[AG]TATGCACAGTGACTGATGACTTCTCACCAGCCCTTCCTCTGATT			
5032	IS	[AG]		AGCTCTGTGTCCCCAA			
5035	I		S	ACAGCTGCTTTGCTTTTTACCCAGCTTTAACACCAA			
5035	P	G	S	ATGACGTGGCAGACCGAAGACACATCTGCC			
5035	P	A	S	CGCGCCGAGGTGAAGACACATCTGCCA			
5035	T	G	S	GGACTGGCAGATGTGTCTTCGTGGTGTTAAAGCTGGGTAAAAAGCAAAGCAGCTGTGC			
5035	T	A	S	GGACTGGCAGATGTGTCTTCATGGTGTTAAAGCTGGGTAAAAAGCAAAGCAGCTGTGC			
				CTGTGTCCCCAGGAAAGGTGAGTTGGTGCTAACCCTGTGAGGACTGGCAGATGTGTCTTC[GA]TGGTGTTAAAGCTGGGTAAAAAGCAAAGCAGCTGTGCAGACT			
5035	IS	[GA]		GCCCCCTGCCAGGCAAGC	ctg15907	6	
5041	I		S	CCGGAAGAAACAAGCCATCCCTCAGTGTCACT			
5041	P	C	S	ATGACGTGGCAGACGTGACAGCAGGCAG			
5041	P	G	S	CGCGCCGAGGCTGACAGCAGGCAG			
5041	T	C	S	CGAGCTGCCTGCTGTCACGTGACACTGAGGGATGGCTTGTTTCTTCCGGGT			
5041	T	G	S	CGAGCTGCCTGCTGTCAGGTGACACTGAGGGATGGCTTGTTTCTTCCGGGT			
				TTTTTGATGGAAGACCAAGGGTTGCCAGGCCCACTGTAACTGCCGAGCTGCCTGCTGTCA[CG]GTGACACTGAGGGATGGCTTGTTTCTTCCGGGTGGGAGGAT			
5041	IS	[CG]		GGTGGTCAGAGCCAGGAGT	ctg22fin4	22	MTMR3
5051	I		S	AGGTCTCAGAGAAGGGCAATACTGTTTGGGGGC			
5051	P	A	S	CGCGCCGAGGTGTGGAGGAAGGCATATA			
5051	P	C	S	ATGACGTGGCAGACGGTGGAGGAAGGCAT			
5051	T	A	S	GTTTTATATGCCTTCCTCCACACCCCCAAACAGTATTGCCCTTCTCTGAGACCTAG			
5051	T	C	S	GTTTTATATGCCTTCCTCCACCCCCCCAAACAGTATTGCCCTTCTCTGAGACCTAG			
				GGAGACTGAAGTAGACAAGCCCATGGCCACCCTAGGTATGTTTTATATGCCTTCCTCCAC[AC]CCCCCAAACAGTATTGCCCTTCTCTGAGACCTAGGATGGCAAT			
5051	IS	[AC]		GGCCACTACTTCTGATC	ctg15064	7	
5055	I		S	CCTAATCTCCCTCACAACCATGTCTTTGTAATGAGTAATCAGGAACT			
5055	P	C	S	ATGACGTGGCAGACGTCGCACTCAGCCA			
5055	P	T	S	CGCGCCGAGGATCGCACTCAGCCAA			
5055	T	C	S	TCAGTTGGCTGAGTGCGACGTTCCTGATTACTCATTACAAAGACATGGTTGTGAGGGAGATTAGGGA			
5055	T	T	S	TCAGTTGGCTGAGTGCGATGTTCCTGATTACTCATTACAAAGACATGGTTGTGAGGGAGATTAGGGA			
				GGGATTTCTCACCTGTACCAAAGTAGTTTCTTGTACTCTAAATCAGTTGGCTGAGTGCGA[CT]GTTCCTGATTACTCATTACAAAGACATGGTTGTGAGGGAGATTA			
5055	IS	[CT]		GGGAGCAGTGCTGTGT	ctg25099	7	
5056	I		A	GCCCCGGCTGCATTGTAACATGAATTT			
5056	P	G	A	ATGACGTGGCAGACGTAAGACACTCTGTCACTG			
5056	P	A	A	CGCGCCGAGGATAAGACACTCTGTCACTGA			
5056	T	G	A	AGGCTCAGTGACAGAGTGTCTTACAATTCATGTTACAATGCAGCCGGGGCTT			
5056	T	A	A	AGGCTCAGTGACAGAGTGTCTTATAATTCATGTTACAATGCAGCCGGGGCTT			
				GATCTGTTACTGCGGCATTACAAAAGCCCCGGCTGCATTGTAACATGAATT[GA]TAAGACACTCTGTCACTGAGCCTCACCCTCTGCCTGGGACACGGGGTGAAG			
5056	IS	[GA]		AGCTGACCT			
5065	I		S	GGGCATCTCTTTATCCCCAGCACCTGGCC			
5065	P	A	S	CGCGCCGAGGTTAAGTGCTGCTCTGGA			
5065	P	C	S	ATGACGTGGCAGACGTAAGTGCTGCTCTGGA			
5065	T	A	S	TAGTTCCAGAGCAGCACTTAAGCCAGGTGCTGGGGATAAAGAGATGCCCTG			
5065	T	C	S	TAGTTCCAGAGCAGCACTTACGCCAGGTGCTGGGGATAAAGAGATGCCCTG			
				ATACTCAACAATACATTCATGCATTAGTTCATTCAACAGATAGTTCCAGAGCAGCACTTA[AC]GCCAGGTGCTGGGGATAAAGAGATGCCCTGGTTTGTGCCCATAT			
5065	IS	[AC]		GCACACCTGACCTCAC	ctg16170	4	
5068	I		A	CTGTGAGCTCACAGCCCCCCTCGT			
5068	P	A	A	CGCGCCGAGGACCCCAGAAACTGGAG			
5068	P	C	A	ATGACGTGGCAGACCCCCCAGAAACTGGA			
5068	T	A	A	GCTCCTCCAGTTTCTGGGGTCGAGGGGGGCTGTGAGCTCACAGCG			
5068	T	C	A	GCTCCTCCAGTTTCTGGGGGCGAGGGGGGCTGTGAGCTCACAGCG			
				GTGCCTGGCCAGGGGGATGGGGGGACTCCTCTTCCCGCTGTGAGCTCACAGCCCCCCTCG[AC]CCCCAGAAACTGGAGGAGCAGGACCGCCGGGCACTGAGC			
5068	IS	[AC]		ATCAAGGAGCAGCTGCAGCAG			
5072	I		A	GCGTGTCAGCCCTCCAGTTCTCCTTCAT			
5072	P	A	A	CGCGCCGAGGATTGACGCCAGCCT			
5072	P	G	A	ATGACGTGGCAGACGTTGACGCCAGCCT			
5072	T	A	A	GGAGAGGCTGGCGTCAATTGAAGGAGAACTGGAGGGCTGACACGCGT			
5072	T	G	A	GGAGAGGCTGGCGTCAACTGAAGGAGAACTGGAGGGCTGACACGCGT			
				CTCTGCTCCTTGGCCTGCCTGCCCGCCAGCCACGCGTGTCAGCCCTCCAGTTCTCCTTCA[AG]TTGACGCCAGCCTCTCCACAGGCCCAGTGCTGTGCCATTCT			
5072	IS	[AG]		GGAAGCTCCAGCTGCTGCT	ctg15581	4	MAD4
5073	I		A	GCCAGCCTCTCCACAGGCCCAT			
5073	P	G	A	ATGACGTGGCAGACGTGCTGTGCCATTCTG			
5073	P	C	A	CGCGCCGAGGGCTGCTGTGCCATTCTG			
5073	T	G	A	CTTCCAGAATGGCACAGCACTGGGCCTGTGGAGAGGCTGGCGT			
5073	T	C	A	CTTCCAGAATGGCACAGCAGTGGGCCTGTGGAGAGGCTGGCGT			
				AGCCACGCGTGTCAGCCCTCCAGTTCTCCTTCAATTGACGCCAGCCTCTCCACAGGCCCA[GC]TGCTGTGCCATTCTGGAAGCTCCAGCTGCTGCTGGGCTGCC			
5073	IS	[GC]		TGGCACTGCCCGCTTGCCG	ctg15581	4	MAD4
5077	I		A	CGTGTTAGCGTAATGTACGTGAACACTTCAAGAAGCCTT			
5077	P	A	A	CGCGCCGAGGAATAAAATCTCTGCAAGACATTAG			
5077	P	G	A	ATGACGTGGCAGACGATAAAATCTCTGCAAGACATTAG			
5077	T	A	A	TTTTCTAATGTCTTGCAGAGATTTTATTAGGCTTCTTGAAGTGTTCACGTACATTACGCTAACACGAT			
5077	T	G	A	TTTTCTAATGTCTTGCAGAGATTTTATCAGGCTTCTTGAAGTGTTCACGTACATTACGCTAACACGAT			
				AGAGCACAGTTATTATTAATATCGTGTTAGCGTAATGTACGTGAACACTTCAAGAAGCCT[AG]ATAAAATCTCTGCAAGACATTAGAAAAATGAAACCAGGTACTACT			
5077	IS	[AG]		CATGGCCTTTATAAA	ctg16170	4	
5100	I		S	ACCACCCTCAAATTCAGACCCAGGAAACTCTTGACA			
5100	P	G	S	ATGACGTGGCAGACCACAGGCAGGCCC			
5100	P	A	S	CGCGCCGAGGTACAGGCAGGCCC			
5100	T	G	S	ACCTGGGCCTGCCTGTGGTCAAGAGTTTCCTGGGTCTGAATTTGAGGGTGGTCC			
5100	T	A	S	ACCTGGGCCTGCCTGTAGTCAAGAGTTTCCTGGGTCTGAATTTGAGGGTGGTCC			
				GTCTACCTGGACAGTGAGGTAAGAGTCTTGACTTCCTAGGTGGAACCTGGGCCTGCCTGT[GA]GTCAAGAGTTTCCTGGGTCTGAATTTGAGGGTGGTCCATGCT			
5100	IS	[GA]		GAGGGCTCTGGGGTTGTG	ctg14391	11	
5103	I		S	TGGTTAAGGATGACGGTTTTATGTTAACTAAACATTGGGATT			
5103	P	T	S	CGCGCCGAGGAAAGTGACAGTTGTTTATGTC			
5103	P	G	S	ATGACGTGGCAGACCAAGTGACAGTTGTTTATGTC			
5103	T	T	S	ACCGGACATAAACAACTGTCACTTTATCCCAATGTTTAGTTAACATAAAACCGTCATCCTTAACCAGT			
5103	T	G	S	ACCGGACATAAACAACTGTCACTTGATCCCAATGTTTAGTTAACATAAAACCGTCATCCTTAACCAGT			
				GCTTATTTTAATCATGGGAAAACTGATACTCTAGGCACCGGACATAAACAACTGTCACTT[TG]ATCCCAATGTTTAGTTAACATAAAACCGTCATCCTTAACCAGTCT			
5103	IS	[TG]		GAAAAAAACATGGCC			
5106	I		A	GCCCATTCTACCCACCTTATTGCCATGAGAATGTGC			
5106	P	T	A	CGCGCCGAGGTCTGTTCCCTCAAACTCA			
5106	P	A	A	ATGACGTGGCAGACACTGTTCCCTCAAACTCA			
5106	T	T	A	AAACTGAGTTTGAGGGAACAGACACATTCTCATGGCAATAAGGTGGGTAGAATGGGCCG			
5106	T	A	A	AAACTGAGTTTGAGGGAACAGTCACATTCTCATGGCAATAAGGTGGGTAGAATGGGCCG			
				CTGACCACAGTGCAGAGGCTGAGCGGCCCATTCTACCCACCTTATTGCCATGAGAATGTG[TA]CTGTTCCCTCAAACTCAGTTTTCACTTTCTACACAAGTGTAATC			
5106	IS	[TA]		TTTCTGGCTCCTCTCT	ctg16114	X	
5111	I		A	TGAGCTGTTTCTCCCCTTATGAAAGAACTCCAA			
5111	P	T	A	CGCGCCGAGGTCCTGTTGCCACCTT			
5111	P	C	A	ATGACGTGGCAGACCCCTGTTGCCACCT			
5111	T	T	A	AGTCAAGGTGGCAACAGGATGGAGTTCTTTCATAAGGGGAGAAACAGCTCAGT			
5111	T	C	A	AGTCAAGGTGGCAACAGGGTGGAGTTCTTTCATAAGGGGAGAAACAGCTCAGT			

FIGURE 129B

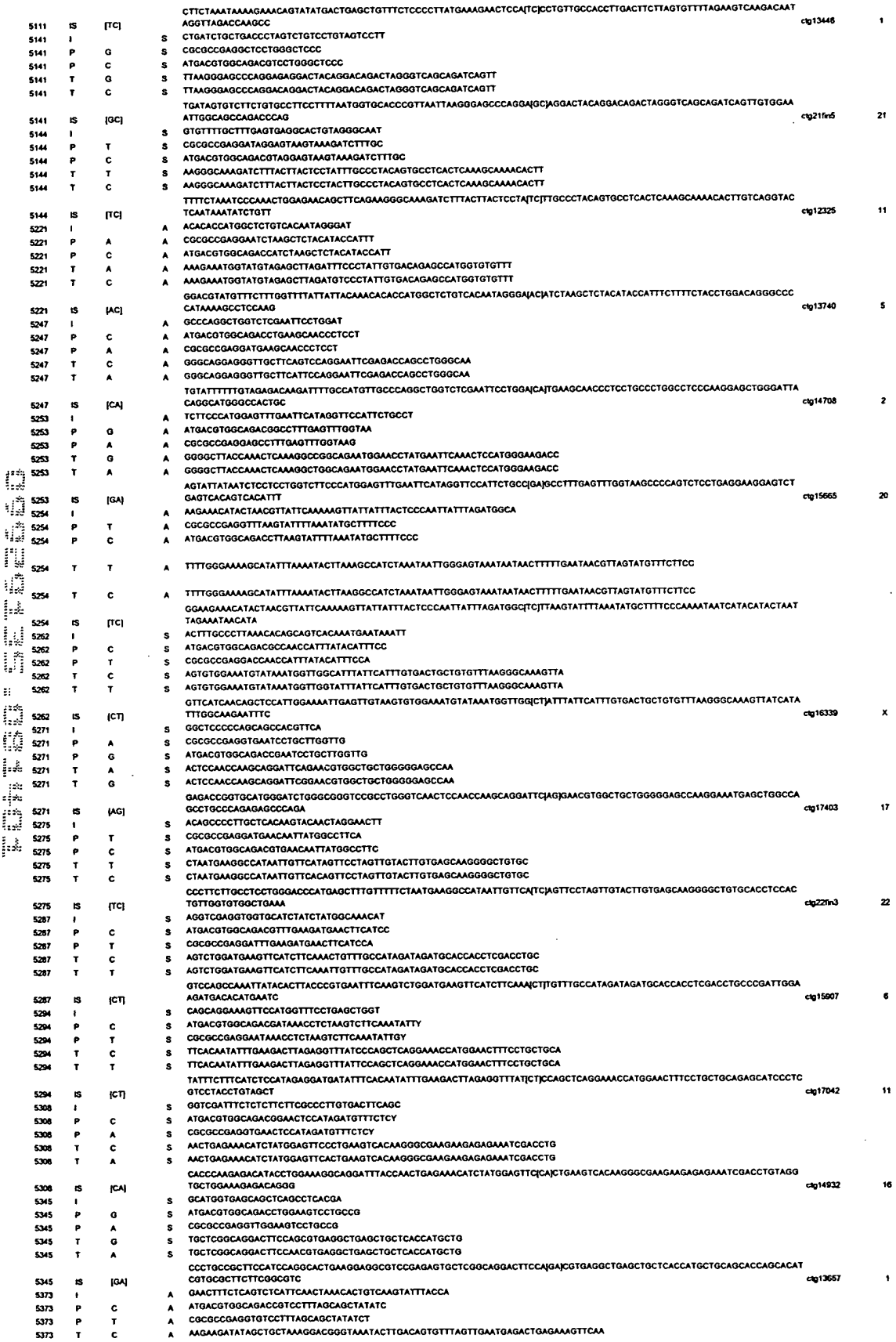


FIGURE 129B

5373	T	T	A	AAGAAGATATAGCTGCTAAAGGACAGGTAAATACTTGACAGTGTTTAGTTGAATGAGACTGAGAAAGTTCAA			
5373	IS	[CT]		GACTTTCCATTATTTGAACTTTCTCAGTCTCATTCAACTAAACACTGTCAAGTATTTACC[CT]GTCCTTTAGCAGCTATATCTTCTTCTTTCTTTAGTTTTTATACCTGA TTATACTTCTGAT	ctg16105	5	
5491	I		A	TTCTGGTTTGGTTGAATCTTCCTTTTTCTTTCTCCCTTTTGTCCT			
5491	P	C	A	CGCGCCGAGGCCTCTCCTAATAGAACTAAATGGY			
5491	P	G	A	ATGACGTGGCAGACGCTCTCCTAATAGAACTAAATGGY			
5491	T	C	A	TAAACCATTTAGTTCTATTAGGAGAGGGGACAAAAGGGAGAAAGAAAAAGGAAGATTCAACCAAACCAGAACA			
5491	T	G	A	TAAACCATTTAGTTCTATTAGGAGAGCGGACAAAAGGGAGAAAGAAAAAGGAAGATTCAACCAAACCAGAACA			
5491	IS	[CG]		ACCCGTTTTATTGGTGTTCTGGTTTGGTTGAATCTTCCTTTTTCTTTCTCCCTTTTGTCC[CG]CTCTCCTAATAGAACTAAATGGTTTATTTTGACCAAGGTATACAC AGTTTGGTTTACTCG	ctg15422	X	
5495	I		A	GCTGCAGCGGCCATTTGGCCTCATTCT			
5495	P	G	A	ATGACGTGGCAGACGCAGGCCCTGACAY			
5495	P	A	A	CGCGCCGAGGACAGGCCCTGACACY			
5495	T	G	A	GTGTGTGTCAGGGCCTGCGAATGAGGCCAAATGGCCGCTGCAGCTT			
5495	T	A	A	GTGTGTGTCAGGGCCTGTGAATGAGGCCAAATGGCCGCTGCAGCTT			
5495	IS	[GA]		GGAAGGGAAACTGCCCTGTCTCCCCACCTCCCAAGCTGCAGCGGCCATTTGGCCTCATTC[GA]CAGGCCCTGACACACACCTGGTGTGCATGTTTGCACACATGT GTATACAACTCTGCTCTG	ctg22fin4	22	
5498	I		S	GGGAGGGAGGTGGGAGATAACAGGTACATTGTAAACAAAT			
5498	P	C	S	ATGACGTGGCAGACGTCTCAGTGCACATGCY			
5498	P	G	S	CGCGCCGAGGCTCTCAGTGCACATGCY			
5498	T	C	S	GGAAGCATGTGCACTGAGACTTTGTTTACAATGTACCTGTTATCTCCCACCTCCCTCCCCC			
5498	T	G	S	GGAAGCATGTGCACTGAGAGTTTGTTTACAATGTACCTGTTATCTCCCACCTCCCTCCCCC			
5498	IS	[CG]		GGTTATTGAGGAAATGTTTCCTCGGAGGAGCTCTATTTGAGGGAAGCATGTGCACTGAGA[CG]TTTGTTTACAATGTACCTGTTATCTCCCACCTCCCTCCCCCAG TCACCCCTATACACTTA	ctg3461	17	
5511	I		A	TGAAAGGCAGTTTTTGAAATCTGAACTCTCATTGCAT			
5511	P	G	A	ATGACGTGGCAGACGTTTTACATGAAGAACACTGTAGY			
5511	P	A	A	CGCGCCGAGGATTTTACATGAAGAACACTGTAGY			
5511	T	G	A	CTGCCTACAGTGTTCTTCATGTAAAACTGCAATGAGAGTTCAGATTTCAAAAACTGCCTTTCACA			
5511	T	A	A	CTGCCTACAGTGTTCTTCATGTAAAATTGCAATGAGAGTTCAGATTTCAAAAACTGCCTTTCACA			
5511	IS	[GA]		TTCTAAATAATGGGTATAAATTTGTGAAAGGCAGTTTTTGAAATCTGAACTCTCATTGCA[GA]TTTTACATGAAGAACACTGTAGGCAGATACCCAAATAAATGTGTG TGGTATTTCAGGGGA	ctg19247	7	
5544	I		S	CATCAGCAATATGTGAAGAGATCCACTTGTATGGATTTTGGCCC			
5544	P	C	S	ATGACGTGGCAGACGTTTGGATTTGACCCCAAY			
5544	P	A	S	CGCGCCGAGGTTTTGGATTTGACCCCAAY			
5544	T	C	S	TGTGTTGGGGTCAAATCCAAACGGCCAAAATCCATACAAGTGGATCTCTTCACATATTGCTGATGCA			
5544	T	A	S	TGTGTTGGGGTCAAATCCAAAAGGCCAAAATCCATACAAGTGGATCTCTTCACATATTGCTGATGCA			
5544	IS	[CA]		TCCTTTTTTGTCATAGTAATGGTATGGAAGATCTTCCCTTGTGTTGGGGTCAAATCCAAA[CA]GGCCAAAATCCATACAAGTGGATCTCTTCACATATTGCTGATGC AAGGGTGTACATAAGA	MULTIPLE	18	MULTIPLE SHORT GENE NAMES
5552	I		S	CCCAAATACTCATCACTCCTCTTATTAATTCTTGCCTCCTGAAAGAA			
5552	P	G	S	ATGACGTGGCAGACCCCATATCCAATTCTTCAATGY			
5552	P	A	S	CGCGCCGAGGTCCATATCCAATTCTTCAATGAY			
5552	T	G	S	ATATTCATTGAAGAATTGGATATGGGTCTTTCAGGAGGCAAGAATTAATAAGAGGAGTGATGAGTATTTGGGGA			
5552	T	A	S	ATATTCATTGAAGAATTGGATATGGATCTTTCAGGAGGCAAGAATTAATAAGAGGAGTGATGAGTATTTGGGGA			
5552	IS	[GA]		AGCGCAGAACCTGGTATGTAGTAGCAGTTCCTTAAATATTCATTGAAGAATTGGATATGG[GA]TCTTTCAGGAGGCAAGAATTAATAAGAGGAGTGATGAGTATTTG GGGAGTCCAAAGCAAA	ctg3454	17	
5578	I		S	CCCGCTCCCAAAGCCTCTGGGACTA			
5578	P	A	S	CGCGCCGAGGTGGCGTGGGGTGY			
5578	P	G	S	ATGACGTGGCAGACCGGCGTGGGGTGY			
5578	T	A	S	CTCCCACCCCACGCCAAGTCCCAGAGGCTTTGGGAGCGGGTG			
5578	T	G	S	CTCCCACCCCACGCCGAGTCCCAGAGGCTTTGGGAGCGGGTG			
5578	IS	[AG]		CAACCCCGGCCTACAGTGGGGCCCACCCTGTGCCTTCTGATGCCACTCCCACCCCACGCC[AG]AGTCCCAGAGGCTTTGGGAGCGGGTGAAGGCGGTGGGTGG CGGGTGGCAGGTGCAGGCGG	ctg832	11	
5614	I		A	AGGGTTTGGTCAGCACCTGCAAGGTCTT			
5614	P	A	A	CGCGCCGAGGATAGTTGCCATAGTGCCAY			
5614	P	G	A	ATGACGTGGCAGACGTAGTTGCCATAGTGCCY			
5614	T	A	A	ACTATGGCACTATGGCAACTATAGACCTTGCAGGTGCTGACCAAACCCTGT			
5614	T	G	A	ACTATGGCACTATGGCAACTACAGACCTTGCAGGTGCTGACCAAACCCTGT			
5614	IS	[AG]		AATTTATCTTTATTTCCTTCGGGACCTGGGGACAGGGTTTGGTCAGCACCTGCAAGGTCT[AG]TAGTTGCCATAGTGCCATAGTTACCATGAGGAACATGATGAGT GCTCTTGGCTTCCCAGG	ctg22fin3	22	
5628	I		S	AGGGCTTGCAGTTTCTCAGGCTCCAGTTCA			
5628	P	G	S	ATGACGTGGCAGACCATCTTCCCCACCCAY			
5628	P	A	S	CGCGCCGAGGTATCTTCCCCACCCACY			
5628	T	G	S	GGCTGTGGGTGGGGAAGATGGAACTGGAGCCTGAGAAACTGCAAGCCCTTT			
5628	T	A	S	GGCTGTGGGTGGGGAAGATAGAACTGGAGCCTGAGAAACTGCAAGCCCTTT			
5628	IS	[GA]		CTGGGGGCAGCCAGGAGGGGACAGGCAGGAGCAATGGGCTAGGCTGTGGGTGGGGAAGAT[GA]GAACTGGAGCCTGAGAAACTGCAAGCCCTTTGAAGACAGA AGCCATGAGAATCAACATGC	ctg15907	6	
5644	I		A	GTTCCTGGACAATTTCTCTGACATTTGAAATTTTCTTAATGCTA			
5644	P	T	A	CGCGCCGAGGTATTCATCATCAAATTTATATCAAATCCY			
5644	P	C	A	ATGACGTGGCAGACCATTCATCATCAAATTTATATCAAATCCY			
5644	T	T	A	TGGAGGATTTGATATAAATTTGATGATGAATGAGCATTAAGAAAATTTCAAATGTCAGAGAAATTGTCCAGGAACTA			
5644	T	C	A	TGGAGGATTTGATATAAATTTGATGATGAATGAGCATTAAGAAAATTTCAAATGTCAGAGAAATTGTCCAGGAACTA			
5644	IS	[TC]		GCCACTTTAATATGCTAGTTCCTGGACAATTTCTCTGACATTTGAAATTTTCTTAATGCT[TC]ATTCATCATCAAATTTATATCAAATCCTCCAGTGTGTGAAACTGTC ATAGTTACTTAAAA	ctg15907	6	
5669	I		S	CTGTGACCCTGCCTGGAGATCCCATTCCT			
5669	P	T	S	CGCGCCGAGGAGTTTCTCCATCCAGACCY			
5669	P	C	S	ATGACGTGGCAGACGGTTTCTCCATCCAGACY			
5669	T	T	S	AGATGGTCTGGATGGAGAAACTGGAATGGGATCTCCAGGCAGGGTCACAGCC			
5669	T	C	S	AGATGGTCTGGATGGAGAAACCGGAATGGGATCTCCAGGCAGGGTCACAGCC			
5669	IS	[TC]		GCCGAGTCCTCACCTAATATCTGATGAGCTGGGCCCCACAGATGGTCTGGATGGAGAAAC[TC]GGAATGGGATCTCCAGGCAGGGTCACAGCCCATGTCCCCTG CAAAGGACAGACCAGGGCT	ctg12325	11	
5670	I		S	AGAGCCACCAGGTTGTGCAACTCCAGGA			
5670	P	G	S	ATGACGTGGCAGACCGGTGCTGTTTGCAY			
5670	P	A	S	CGCGCCGAGGTGGTGCTGTTTGCACY			
5670	T	G	S	TTCTGTGCAAACAGCACCGCCTGGAGTTGCACAACCTGGTGGCTCTGA			
5670	T	A	S	TTCTGTGCAAACAGCACCACCTGGAGTTGCACAACCTGGTGGCTCTGA			
5670	IS	[GA]		TGACAGGGTGGGGAGATGTGAAAGGTCAAGGCTGTCATTGTTTTCTGTGCAAACAGCACC[GA]CCTGGAGTTGCACAACCTGGTGGCTCTGAGCAGGGTAGGAC AGAGGGAGGCAGCCTCTCA	ctg12325	11	
5678	I		S	AGCACAGTCTCAGGTTTCTCACCTATATATGTTAGCTAA			
5678	P	G	S	ATGACGTGGCAGACCGAGTAGTAGTAAACTAAAGCCY			
5678	P	A	S	CGCGCCGAGGTGAGTAGTAGTAAACTAAAGCCY			
5678	T	G	S	TGAGGGCTTTAGTTTACTACTACTCGTAGCTAACATATATAGGTGAGAAACCTGAGACTGTGCTCT			
5678	T	A	S	TGAGGGCTTTAGTTTACTACTACTCATAGCTAACATATATAGGTGAGAAACCTGAGACTGTGCTCT			
5678	IS	[GA]		CCAGTGCAGTTATTAATGGAGGTGCTGTTTCTCTCTGAGGGCTTTAGTTTACTACTACTC[GA]TAGCTAACATATATAGGTGAGAAACCTGAGACTGTGCTCTGGAT ATTGAGTGCCTCTGTT	ctg14583	1	
5679	I		A	TCCTTCAATGCCACCTCATGCTCAGCT			
5679	P	C	A	ATGACGTGGCAGACCTGTATGCCCATAGATAAACAY			
5679	P	A	A	CGCGCCGAGGATGTATGCCCATAGATAAACAY			
5679	T	C	A	AGGGTGTTTATCTATGGGCATACAGGCTGAGCATGAGGTGGCATTGAAGGAAG			
5679	T	A	A	AGGGTGTTTATCTATGGGCATACATGCTGAGCATGAGGTGGCATTGAAGGAAG			

FIGURE 129B

				GCTCTAGAAGGAAGCAAGCCTACTAAATACTTCTTCCTTCAATGCCACCTCATGCTCAGC[CA]TGTATGCCCATAGATAAACACCCTCCCCTCACCCTTAGTTCTGA			
5679	IS	[CA]		GGAGACCATTTGGAAG	ctg14583	1	
5681	I		S	AGCTGATGGCCTGGTGTGTAGGGGGTAATTAGC			
5681	P	T	S	CGCGCCGAGGAATCGGCTAAATTGCAATGY			
5681	P	A	S	ATGACGTGGCAGACTATCGGCTAAATTGCAATGAY			
5681	T	T	S	CAGCTCATTGCAATTTAGCCGATTCTAATTACCCCCTACACACCAGGCCATCAGCTGC			
5681	T	A	S	CAGCTCATTGCAATTTAGCCGATACTAATTACCCCCTACACACCAGGCCATCAGCTGC			
				GATCTAGGGTGTATGCTTGGAGGAGTGGAGCAGCTGACAGCTCATTGCAATTTAGCCGAT[TA]CTAATTACCCCCTACACACCAGGCCATCAGCTGCAGGAGACA			
5681	IS	[TA]		CCCAAGCTTCTTGACCTC	ctg16401	17	
5684	I		A	GTTTGGGGCTGAAGCCAGGAACCGTCT			
5684	P	G	A	ATGACGTGGCAGACGCTCTCTCTGGTTCTTACTY			
5684	P	A	A	CGCGCCGAGGACTCTCTCTGGTTCTTACTGY			
5684	T	G	A	CTACCAGTAAGAACCAGAGAGAGCGACGGTTCCTGGCTTCAGCCCCAAACCC			
5684	T	A	A	CTACCAGTAAGAACCAGAGAGAGTGACGGTTCCTGGCTTCAGCCCCAAACCC			
				AGGGCTCCCACCAAGGCTGATATTGACAGCCAGGGTTTGGGGCTGAAGCCAGGAACCGTC[GA]CTCTCTCTGGTTCTTACTGGTAGCCCTCATGGGGGTCCCTG			
5684	IS	[GA]		ACGCCAGAGCCTCCAAGGC	ctg17450	X	
5695	I		S	CAAATCAACTCCCACCTGGTACTGAGCACATGTGT			
5695	P	C	S	ATGACGTGGCAGACGATATATAAATACCCGCTTTAGTTCY			
5695	P	G	S	CGCGCCGAGGCATATATAAATACCCGCTTTAGTTCY			
5695	T	C	S	AAAAGAACTAAAGCGGGTATTTATATATCCACATGTGCTCAGTACCAGGTGGGAGTTGATTTGTC			
5695	T	G	S	AAAAGAACTAAAGCGGGTATTTATATATGCACATGTGCTCAGTACCAGGTGGGAGTTGATTTGTC			
				AGGATAGTGAGTCCTCTTCCTTCTCACTGTGGAAAAGAACTAAAGCGGGTATTTATATAT[CG]CACATGTGCTCAGTACCAGGTGGGAGTTGATTTGTCTTCTCATT			
5695	IS	[CG]		GTTCTCTTTGGCTGTG	ctg11	15	
5703	I		A	GGCAGACACTTACTGGGCAGGGGGGT			
5703	P	A	A	CGCGCCGAGGATCCCAAGAGCAGCCY			
5703	P	G	A	ATGACGTGGCAGACGTCCCAAGAGCAGCCY			
5703	T	A	A	CCATGGCTGCTCTTGGGATCCCCCCTGCCCAGTAAGTGTCTGCCAG			
5703	T	G	A	CCATGGCTGCTCTTGGGACCCCCCCTGCCCAGTAAGTGTCTGCCAG			
				AGTTTCATGGATGCCAGCTGGAGAGCACGGCACCTGGCAGACACTTACTGGGCAGGGGGG[AG]TCCCAAGAGCAGCCATGGGGTGAGCCCCACTCCCGCTGAC			
5703	IS	[AG]		ACCAGAGACAGGGGAGACAT	ctg22fin4	22	
5709	I		A	TCAAAGTCCTTGCCAGTACTGAAATACAGAGAAGACACCAGC			
5709	P	A	A	CGCGCCGAGGACATTCCTGAATTGTCATACAY			
5709	P	T	A	ATGACGTGGCAGACTCATTCCTGAATTGTCATACAY			
5709	T	A	A	GGGCTGTATGACAATTCAGGAATGTCTGGTGTCTTCTCTGTATTTCAGTACTGGCAAGGACTTTGACA			
5709	T	T	A	GGGCTGTATGACAATTCAGGAATGACTGGTGTCTTCTCTGTATTTCAGTACTGGCAAGGACTTTGACA			
				GCACAGGTCAGGGTGCATGTCAAAGTCCTTGCCAGTACTGAAATACAGAGAAGACACCAG[AT]CATTCCTGAATTGTCATACAGCCCTTCTGAGATATGGACCATC			
5709	IS	[AT]		TTTATCAGAATGTATAG	ctg13538	4	
5718	I		A	GCGGGTGGGGGAGGGAGCAA			
5718	P	T	A	CGCGCCGAGGTGCAACTCATGAGGAATGY			
5718	P	C	A	ATGACGTGGCAGACCGCAACTCATGAGGAATY			
5718	T	T	A	CCATCATTCCTCATGAGTTGCATGCTCCCTCCCCCACCCGCCC			
5718	T	C	A	CCATCATTCCTCATGAGTTGCGTGCTCCCTCCCCCACCCGCCC			
				GTGCCGGTGAGCAATAAGCCAGGCCTGCGGCTCTCCCAGGGGCGGGTGGGGGAGGGAGCA[TC]GCAACTCATGAGGAATGATGGGAGGAAAGTGAATTGAGG			
5718	IS	[TC]		GAGGTAAAGAGGAAGGATGGG	ctg17326	12	
5722	I		S	GCCCCTTCATACTAAACAGGCAGTCTATACCACAAAGTATAACACT			
5722	P	G	S	ATGACGTGGCAGACCCAGTTTCCACAAATTCCAY			
5722	P	T	S	CGCGCCGAGGACAGTTTCCACAAATTCCAY			
5722	T	G	S	GAGGTGGAATTTGTGGAAACTGGGTGTTATACTTTGTGGTATAGACTGCCTGTTTAGTATGAAGGGGCGA			
5722	T	T	S	GAGGTGGAATTTGTGGAAACTGTGTGTTATACTTTGTGGTATAGACTGCCTGTTTAGTATGAAGGGGCGA			
				GGGAGAGGGTACACAATGGGTATCTAATAAATACTTAAGAGGTGGAATTTGTGGAAACTG[GT]GTGTTATACTTTGTGGTATAGACTGCCTGTTTAGTATGAAGGG			
5722	IS	[GT]		GCGATCCATGCACATCT	ctg3235	11	
5723	I		S	GCTCCAGGTCCAAGATCATGTCTAGAGCTTGTCGT			
5723	P	T	S	CGCGCCGAGGATAGTGAGGGACCTGCY			
5723	P	C	S	ATGACGTGGCAGACGTAGTGAGGGACCTGCY			
5723	T	T	S	ATGAGCAGGTCCCTCACTATCGACAAGCTCTAGACATGATCTTGGACCTGGAGCCT			
5723	T	C	S	ATGAGCAGGTCCCTCACTACCGACAAGCTCTAGACATGATCTTGGACCTGGAGCCT			
				TGAAGACTACATCCAGGACAAATTTAATCTTACTGGACTCAATGAGCAGGTCCCTCACTA[TC]CGACAAGCTCTAGACATGATCTTGGACCTGGAGCCTGGTGAGG			
5723	IS	[TC]		CACCCTCAGGGTTGTTT	ctg15907	6	
5726	I		A	GCCTGCCTGCACAAACCCTAGGTGCT			
5726	P	A	A	CGCGCCGAGGAATGTCCTAATCCTTGTTGGY			
5726	P	C	A	ATGACGTGGCAGACCATGTCCTAATCCTTGTTGGY			
5726	T	A	A	AGACCCAACAAGGATTAGGACATTGCACCTAGGGTTTGTGCAGGCAGGCCA			
5726	T	C	A	AGACCCAACAAGGATTAGGACATGGCACCTAGGGTTTGTGCAGGCAGGCCA			
				TCACGTCACTTTGCCCGTCTGTCTGCAGCAGCATGGCCTGCCTGCACAAACCCTAGGTGC[AC]ATGTCCTAATCCTTGTTGGGTCTTTGTATTCAAGTTTGAAGCT			
5726	IS	[AC]		GGGAGGGCCTGGCTACT	ctg16335	2	
5728	I		A	CTCCAAATCCAAGGAAACATGCAGCTCTTCAACATGACT			
5728	P	A	A	CGCGCCGAGGATCCAGAGATGACTATTACTTTTCY			
5728	P	G	A	ATGACGTGGCAGACGTCCAGAGATGACTATTACTTTTY			
5728	T	A	A	AACAGAAAAGTAATAGTCATCTCTGGATGTCATGTTGAAGAGCTGCATGTTTCCTTGGATTTGGAGCT			
5728	T	G	A	AACAGAAAAGTAATAGTCATCTCTGGACGTCATGTTGAAGAGCTGCATGTTTCCTTGGATTTGGAGCT			
				AAACCAGCTCTGAACTTCCAAGCTCCAAATCCAAGGAAACATGCAGCTCTTCAACATGAC[AG]TCCAGAGATGACTATTACTTTTCTGTTTAGTTTTACACTAGGAAA			
5728	IS	[AG]		CGTGTTGTATCTACA	ctg17944	8	NOV
5742	I		S	CAGGAAGGTGAGGCCCCCTCTCCACT			
5742	P	C	S	ATGACGTGGCAGACGTACCCTTGCTGTGGTY			
5742	P	T	S	CGCGCCGAGGATACCCTTGCTGTGGTY			
5742	T	C	S	CACAACCACAGCAAGGGTACGTGGAGAGGGGGCCTCACCTTCCTGAG			
5742	T	T	S	CACAACCACAGCAAGGGTATGTGGAGAGGGGGCCTCACCTTCCTGAG			
				ATCACATGTTCACTGTTGACTTCTGGACTATTATGGAAAATCACAACCACAGCAAGGGTA[CT]GTGGAGAGGGGGCCTCACCTTCCTGAGGTTGTCAGAGCTTTTC			
5742	IS	[CT]		ATCTTTTCATGCATCTT	ctg15907	6	
5746	I		S	CCAAGTCCCTGAGCTTCTTCCACCAAGGTCA			
5746	P	A	S	CGCGCCGAGGTCATTCACTACCTGAGCAY			
5746	P	G	S	ATGACGTGGCAGACCCATTCACTACCTGAGCY			
5746	T	A	S	TCATTGCTCAGGTAGTGAATGAGACCTTGGTGGAAGAAGCTCAGGGACTTGGGG			
5746	T	G	S	TCATTGCTCAGGTAGTGAATGGGACCTTGGTGGAAGAAGCTCAGGGACTTGGGG			
				AGGATGACCTGAATGAGCTGATGCAGAAGCACAAGGACCTCATTGCTCAGGTAGTGAATG[AG]GACCTTGGTGGAAGAAGCTCAGGGACTTGGGGTGGGGTGAA			
5746	IS	[AG]		TGGGGAATGTTGAGAAGGT	ctg22fin4	22	
5749	I		S	GGTAGCAGCTTTCACCTCCTTGGGGGTT			
5749	P	T	S	CGCGCCGAGGAGGAGAGTTCCCTCTGTY			
5749	P	C	S	ATGACGTGGCAGACGGGAGAGTTCCCTCTGY			
5749	T	T	S	CCAAACAGAGGGAACTCTCCTACCCCCAAGGAGGTGAAAGCTGCTACCAC			
5749	T	C	S	CCAAACAGAGGGAACTCTCCCACCCCCAAGGAGGTGAAAGCTGCTACCAC			
				TCCCTCGCTCCTTCCTCTGCATTGCCCCTCTTCTCCCTCTCCAAACAGAGGGAACTCTCC[TC]ACCCCCAAGGAGGTGAAAGCTGCTACCACCTCTGTGCCCCCC			
5749	IS	[TC]		CGGCAATGCCACCAACTG			
5753	I		A	CCTCAGGGTGGGAGATGAAGGGGGCTAC			
5753	P	A	A	CGCGCCGAGGAGCTATGGCCCATCTGY			
5753	P	T	A	ATGACGTGGCAGACTGCTATGGCCCATCTY			
5753	T	A	A	CATACAGATGGGCCATAGCTTAGCCCCCTTCATCTCCCACCCTGAGGCC			
5753	T	T	A	CATACAGATGGGCCATAGCATAGCCCCCTTCATCTCCCACCCTGAGGCC			

FIGURE 129B

				CCCTGAGGTGGGGCTTCTCCTGAAATCTACAGGCCTCAGGGTGGGAGATGAAGGGGGCTA[AT]GCTATGGCCCATCTGTATGCTGGTAGCTAGTGATTTACACAG			
5753	IS	[AT]		GTTTAGTTGACTAATGAG	ctg13206	14	
5755	I		S	AGGGAAAGTGTTGTCCCAATGTCACACAGCACT			
5755	P	T	S	CGCGCCGAGGATTAGGACTGAAACAGTAGCY			
5755	P	C	S	ATGACGTGGCAGACGTTAGGACTGAAACAGTAGCY			
5755	T	T	S	TGGGGCTACTGTTTCAGTCCTAATGTGCTGTGTGACATTGGGACAACACTTTCCCTCT			
5755	T	C	S	TGGGGCTACTGTTTCAGTCCTAACGTGCTGTGTGACATTGGGACAACACTTTCCCTCT			
				TCCTGCATGGGAAAAATGTTGGAATGGGAGTCTGAAATGGGGCTACTGTTTCAGTCCTAA[TC]GTGCTGTGTGACATTGGGACAACACTTTCCCTCTCTGGACCTC			
5755	IS	[TC]		AGTTTCCCTCTGTATAC	ctg13206	14	
5761	I		A	TGAGAAGCTCTGGGAACAAGTGGCCCCT			
5761	P	A	A	CGCGCCGAGGATAGACGCCAGACACAY			
5761	P	G	A	ATGACGTGGCAGACGTAGACGCCAGACACAY			
5761	T	A	A	TCTGTGTGTCTGGCGTCTATGGGGCCACTTGTTCCCAGAGCTTCTCAGA			
5761	T	G	A	TCTGTGTGTCTGGCGTCTACGGGGCCACTTGTTCCCAGAGCTTCTCAGA			
				TGTCCCAAACTGTCAGGGCCCCAGCACCCAGTCTGAGAAGCTCTGGGAACAAGTGGCCCC[AG]TAGACGCCAGACACACAGAGCCTGAGCTGGGCTCATTCTCC			
5761	IS	[AG]		AGATAGAAGTTCTTCCTCC	ctg14824	1	
5763	I		S	GCTTGCAGGGCCCATCTCCTCAGAGTTAA			
5763	P	A	S	CGCGCCGAGGTTTATCCTCACGGAGCTY			
5763	P	G	S	ATGACGTGGCAGACCTTATCCTCACGGAGCTY			
5763	T	A	S	ACTGAGCTCCGTGAGGATAAATAACTCTGAGGAGATGGGCCCTGCAAGCCT			
5763	T	G	S	ACTGAGCTCCGTGAGGATAAGTAACTCTGAGGAGATGGGCCCTGCAAGCCT			
				GGTCCCCCTTCCTATGATGAGGACCTTTTCACAGACCTGTACTGAGCTCCGTGAGGATAA[AG]TAACTCTGAGGAGATGGGCCCTGCAAGCCTCTTGCTTAGCCG			
5763	IS	[AG]		TCTGTTCAGAAAATAGCG			
5782	I		A	CCTCGGTGGCCCTGGCTGTCCA			
5782	P	C	A	ATGACGTGGCAGACCTGGACCACCTCCCY			
5782	P	T	A	CGCGCCGAGGTTGGACCACCTCCCY			
5782	T	C	A	AGCAGGGAGGTGGTCCAGGGACAGCCAGGGCCACCGAGGAG			
5782	T	T	A	AGCAGGGAGGTGGTCCAAGGACAGCCAGGGCCACCGAGGAG			
				CAGGCGCAGACACCTTTCTCCCCTCCCCGCCCCTCTTCTCCTCGGTGGCCCTGGCTGTCC[CT]TGGACCACCTCCCTGCTCAGCTGACCCGTACCTCTGCCACC			
5782	IS	[CT]		AGAGCTCTCTTCCTGCTGT	ctg16335	2	
5801	I		A	GTGCACAAATAGCTTGTGAAGAGAAGATCACCTTCTGTCCT			
5801	P	A	A	CGCGCCGAGGAGGAGATATAAATGTAAGCTTCAY			
5801	P	G	A	ATGACGTGGCAGACGGGAGATATAAATGTAAGCTTCAY			
5801	T	A	A	TCTCTGAAGCTTACATTTATATCTCCTGGACAGAAGGTGATCTTCTCTTCACAAGCTATTTGTGCACCA			
5801	T	G	A	TCTCTGAAGCTTACATTTATATCTCCCGGACAGAAGGTGATCTTCTCTTCACAAGCTATTTGTGCACCA			
				GCTATCTGGGACCTTACCTGGTGCACAAATAGCTTGTGAAGAGAAGATCACCTTCTGTCC[AG]GGAGATATAAATGTAAGCTTCAGAGACACCATGTAGAGATGAC			
5801	IS	[AG]		TGTTACCTTGCTAGGGG	ctg14932	16	
5804	I		S	TCCGAGGACATCACAGCCCCAGCACA			
5804	P	G	S	ATGACGTGGCAGACCCGAGCCCAGAGC			
5804	P	A	S	CGCGCCGAGGTCGAGCCCAGAGC			
5804	T	G	S	CGTGGCTCTGGGCTCGGGTGCTGGGGCTGTGATGTCCTCGGAAA			
5804	T	A	S	CGTGGCTCTGGGCTCGAGTGCTGGGGCTGTGATGTCCTCGGAAA			
				GCTCCCTGCTCGCGCGCTCCCTGAAGCATCAGAGGGGAAAACAGCGTGGCTCTGGGCTCG[GA]GTGCTGGGGCTGTGATGTCCTCGGAAAGTCAGCTCCAGCC			
5804	IS	[GA]		CCAGATCCCCGCGTGTCTGG	ctg53	14	
5812	I		S	GGGAGCCTCACAGACCCAGAGAGAGACTTACA			
5812	P	A	S	CGCGCCGAGGTGTCCCAGAGCTAGTTAAT			
5812	P	G	S	ATGACGTGGCAGACCGTCCCAGAGCTAGTTA			
5812	T	A	S	AGGAATTAACTAGCTCTGGGACAGTAAGTCTCTCTCTGGGTCTGTGAGGCTCCCAA			
5812	T	G	S	AGGAATTAACTAGCTCTGGGACGGTAAGTCTCTCTCTGGGTCTGTGAGGCTCCCAA			
				TGAGAGGCATCCTTCCAAGTCAGTCATTTTCTGTCTTCAGGAATTAACTAGCTCTGGGAC[AG]GTAAGTCTCTCTCTGGGTCTGTGAGGCTCCCAAGTGCCAGAAT			
5812	IS	[AG]		ATCAGGATCAGAGAAGA	ctg12325	11	
5816	I		S	ACCACCTGGGGGAGAAGGAGGCACA			
5816	P	G	S	ATGACGTGGCAGACCACCTTAGAGAGGAGGATG			
5816	P	A	S	CGCGCCGAGGTACCTTAGAGAGGAGGATG			
5816	T	G	S	TCCACATCCTCCTCTCTAAGGTGGTGCCTCCTTCTCCCCCAGGTGGTCA			
5816	T	A	S	TCCACATCCTCCTCTCTAAGGTAGTGCCTCCTTCTCCCCCAGGTGGTCA			
				ATGGGAGAATCTTCTGAGCACAGGGAGGGAGGGGCGGCTCCACATCCTCCTCTCTAAGGT[GA]GTGCCTCCTTCTCCCCCAGGTGGTCAGGACAAGCCCTTCCT			
5816	IS	[GA]		CTCTGCCTGGCCCGGCACT	ctg16318	19	
5817	I		S	GGTCACAGGGCCCATGAGAAAGCTGTTCCT			
5817	P	T	S	CGCGCCGAGGAGAATATTCTGTTGTAGAGCTC			
5817	P	C	S	ATGACGTGGCAGACGGAATATTCTGTTGTAGAGCT			
5817	T	T	S	CCCTGAGCTCTACAACAGAATATTCTGGAACAGCTTTCTCATGGGCCCTGTGACCCC			
5817	T	C	S	CCCTGAGCTCTACAACAGAATATTCCGGAACAGCTTTCTCATGGGCCCTGTGACCCC			
				GAATTCAGTCTGTCCAAAGAAGACGGGATGCCTGTCCCTGAGCTCTACAACAGAATATTC[TC]GGAACAGCTTTCTCATGGGCCCTGTGACCCCAGCACATGCAG			
5817	IS	[TC]		GGACCTACAGATGTTGCA	ctg16318	19	
5901	I		S	GCTCCCGCCTACCAGTTTCGGGGTCT			
5901	P	C	S	ATGACGTGGCAGACGCATTGGTGTTCACAGG			
5901	P	T	S	CGCGCCGAGGACATTGGTGTTCACAGG			
5901	T	C	S	GACCCCTGTGAACACCAATGCGACCCCGAAACTGGTAGGCGGGAGCAC			
5901	T	T	S	GACCCCTGTGAACACCAATGTGACCCCGAAACTGGTAGGCGGGAGCAC			
				CGGACCCTGGGCCATGGACCTCTGTGCCCGGCGGCTCCTGGACCCCTGTGAACACCAATG[CT]GACCCCGAAACTGGTAGGCGGGAGCACCGGGCAGCGGGTA			
5901	IS	[CT]		ACTGTCAGAGAGATCATGCC	ctg13446	1	
5915	I		A	GCCACACCTGATGCGTTTTTGGTGGGCA			
5915	P	T	A	CGCGCCGAGGTTACTTGGTGCAGTGTG			
5915	P	C	A	ATGACGTGGCAGACCTACTTGGTGCAGTGTG			
5915	T	T	A	ACAGCACACTGCACCAAGTAAGCCCACCAAAAACGCATCAGGTGTGGCCA			
5915	T	C	A	ACAGCACACTGCACCAAGTAGGCCCACCAAAAACGCATCAGGTGTGGCCA			
				AGGCAGGGAATGAAGAAGGTACTGTGGGCCATGGCCACACCTGATGCGTTTTTGGTGGGC[TC]TACTTGGTGCAGTGTGCTGTCCAGAGAGACCTGCTGACCCA			
5915	IS	[TC]		GTCTGGGACAGGCACAGTG	ctg22fin3	22	DGCR2
5917	I		S	CCTCAGACTGGACCACAGCCAGCCCT			
5917	P	C	S	ATGACGTGGCAGACGGGAGCTGCCAGTC			
5917	P	T	S	CGCGCCGAGGAGGAGCTGCCAGTC			
5917	T	C	S	TCTTGACTGGCAGCTCCCGGGCTGGCTGTGGTCCAGTCTGAGGGA			
5917	T	T	S	TCTTGACTGGCAGCTCCTGGGCTGGCTGTGGTCCAGTCTGAGGGA			
				CAGTGTGCCATATGCCACCTTTTCCCACTGCAGGTGTTCTCCCTCTTGACTGGCAGCTCC[CT]GGGCTGGCTGTGGTCCAGTCTGAGGGAGACAGAAGATCTGAG			
5917	IS	[CT]		AAGATATGCTCAGCATAA	ctg25099	7	
5944	I		A	CTGGACCACACCCCTGGGAGTGAGTT			
5944	P	G	A	ATGACGTGGCAGACGCACCAGGGAGTCA			
5944	P	A	A	CGCGCCGAGGACACCAGGGAGTCAC			
5944	T	G	A	TAATGTGACTCCCTGGTGCACTCACTCCCAGGGGTGTGGTCCAGGG			
5944	T	A	A	TAATGTGACTCCCTGGTGTACTCACTCCCAGGGGTGTGGTCCAGGG			
				GTGTTCATCAAGCAACCTCTGACTCAAGGATATCCCTGGACCACACCCCTGGGAGTGAGT[GA]CACCAGGGAGTCACATTAATCCCATAAACCCTGTTGTTGTCCT			
5944	IS	[GA]		GTGACTGGCACCATTCA	ctg14189	19	
5992	I		S	CCTCTGATGAGTGAGACGCAGAGATGCCCT			
5992	P	T	S	CGCGCCGAGGATTACGGCTTCATCAATTCC			
5992	P	C	S	ATGACGTGGCAGACGTTACGGCTTCATCAATTC			
5992	T	T	S	AGAGGGAATTGATGAAGCCGTAATGGGCATCTCTGCGTCTCACTCATCAGAGGCT			
5992	T	C	S	AGAGGGAATTGATGAAGCCGTAACGGGCATCTCTGCGTCTCACTCATCAGAGGCT			

FIGURE 129B

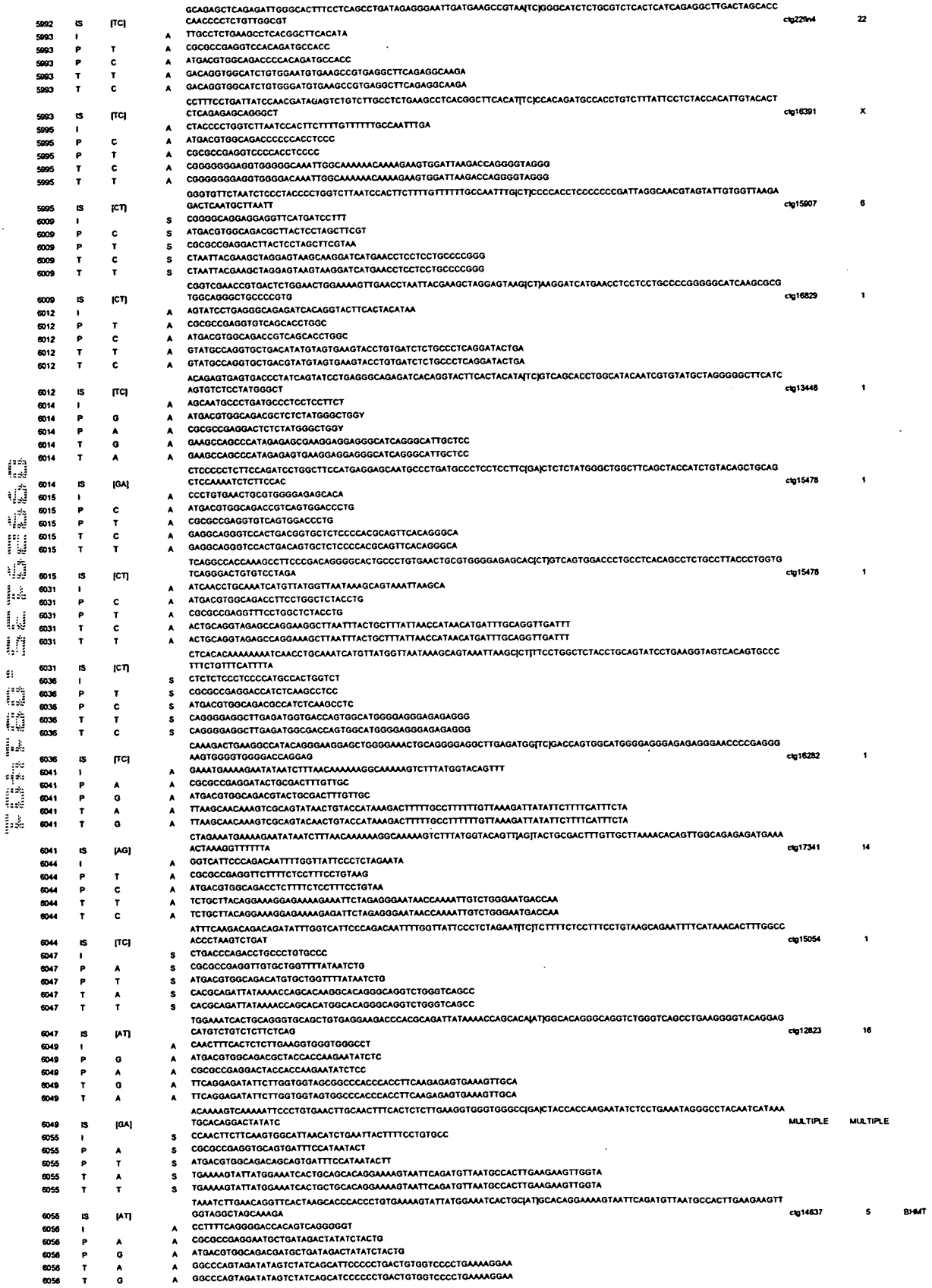


FIGURE 129B

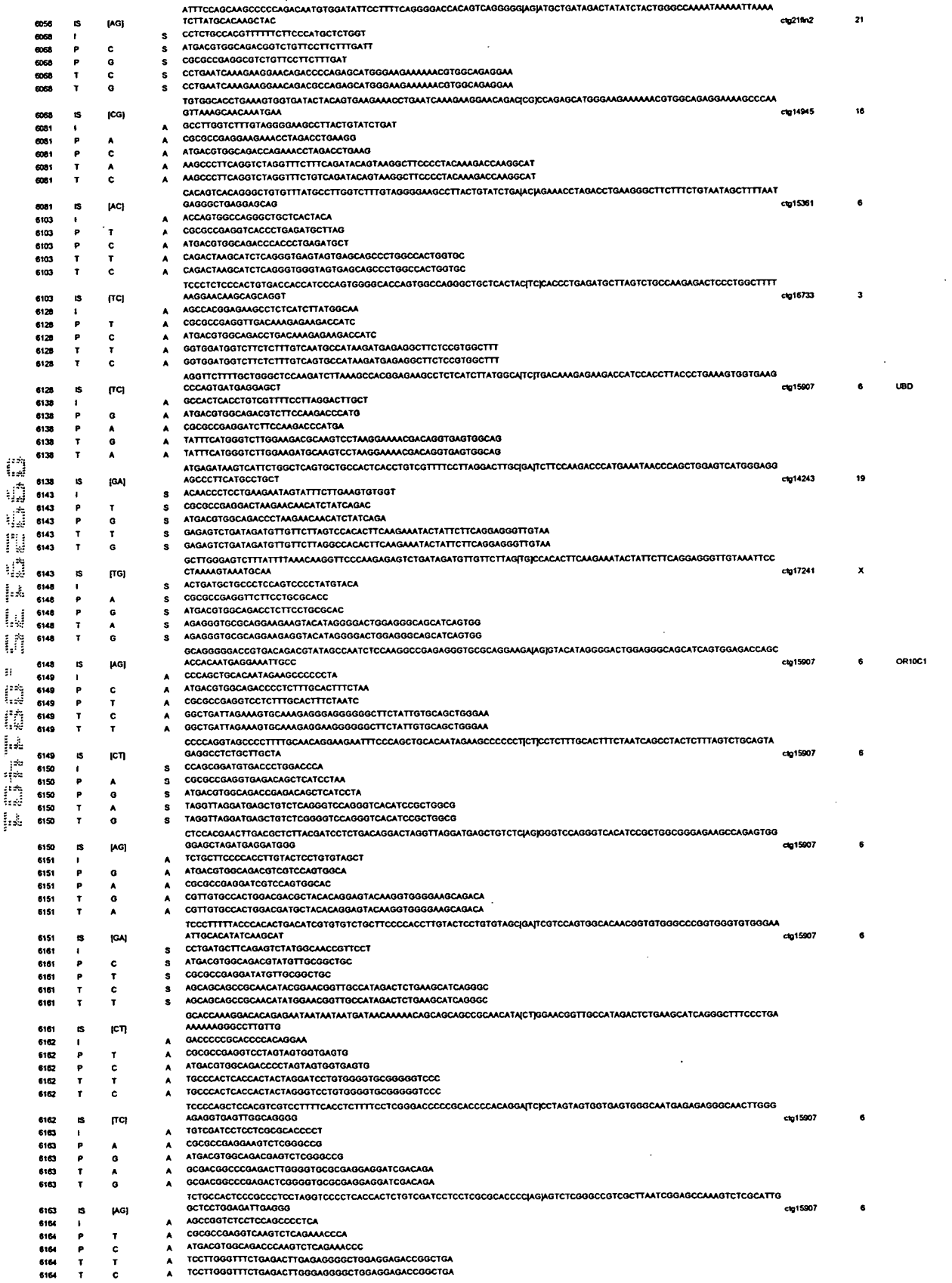


FIGURE 129B

				GAAGAGGCTGGGATCCAGTATACCCCAGACTGCATTTCAGCCGGTCTCCTCCAGCCCCTC[TC]CAAGTCTCAGAAACCCAAGGACAAGCTGTCTGACCCCTAACC			
6164	IS	[TC]		TTGCTCTCCCCTGCTATC	ctg15907	6	
6180	I		S	GAGTGTCTGGCCCCAGAGCCCCTTTATC			
6180	P	A	S	CGCGCCGAGGTCATTCCAACCATCCTG			
6180	P	T	S	ATGACGTGGCAGACACATTCCAACCATCCTG			
6180	T	A	S	TATGCAGGATGGTTGGAATGAATAAAGGGGCTCTGGGGCCAGACACTCTG			
6180	T	T	S	TATGCAGGATGGTTGGAATGTATAAAGGGGCTCTGGGGCCAGACACTCTG			
				TGGCAGTCAGGGGAATGTGCGTCCACTTCCAAACACAGTGTATGCAGGATGGTTGGAATG[AT]ATAAAGGGGCTCTGGGGCCAGACACTCTGGAGTGGATTTGT			
6180	IS	[AT]		GGCTCTGTGTGATCTAGGC	ctg25099	7	
6190	I		A	AGCTTAAGGAAACCTTTGCTTGCTAAGACCTTGGTTAATTATTGCT			
6190	P	C	A	ATGACGTGGCAGACCGGTGCTGGAAACAG			
6190	P	A	A	CGCGCCGAGGAGGTGCTGGAAACAGA			
6190	T	C	A	ATCATCTGTTTCCAGCACCGGCAATAATTAACCAAGGTCTTAGCAAGCAAAGGTTTCCTTAAGCTGT			
6190	T	A	A	ATCATCTGTTTCCAGCACCTGCAATAATTAACCAAGGTCTTAGCAAGCAAAGGTTTCCTTAAGCTGT			
				ACCATTGGTTTCTACAGCTTAAGGAAACCTTTGCTTGCTAAGACCTTGGTTAATTATTGC[CA]GGTGCTGGAAACAGATGATATGCTTAAAGGAAAAACAAAAGTGT			
6190	IS	[CA]		AAACACAGGGATGCAC	ctg19247	7	
6206	I		A	TGTAGTTTGGGGGATGCCCCCCACCT			
6206	P	G	A	ATGACGTGGCAGACGTGGTCAGGTTGATGGY			
6206	P	A	A	CGCGCCGAGGATGGTCAGGTTGATGGCY			
6206	T	G	A	AGGTGCCATCAACCTGACCACGGTGGGGGGCATCCCCCAAACTACAGT			
6206	T	A	A	AGGTGCCATCAACCTGACCATGGTGGGGGGCATCCCCCAAACTACAGT			
				TGTGGTCTAGGCCATGAGGGGGGTCCTCATCACACTGTAGTTTGGGGGATGCCCCCCACC[GA]TGGTCAGGTTGATGGCACCTTAACCCATTCTCTCCTGATGC			
6206	IS	[GA]		GTGAGTTGGAGGAGGCGCG	MULTIPLE	12	
6328	I		A	CCTCCTCTCAGTACTAACAGTCTGTCAGCCTTTTATTTTTTGCATAGATAA			
6328	P	T	A	CGCGCCGAGGTGTATTTTCTCTTCTTTATTGTCTG			
6328	P	C	A	ATGACGTGGCAGACCGTATTTTCTCTTCTTTATTGTCT			
6328	T	T	A	AAGACAGACAATAAAGAAGAGAAAATACATATCTATGCAAAAAATAAAAGGCTGACAGACTGTTAGTACTGAGAGGAGGGC			
6328	T	C	A	AAGACAGACAATAAAGAAGAGAAAATACGTATCTATGCAAAAAATAAAAGGCTGACAGACTGTTAGTACTGAGAGGAGGGC			
				TGGACTTGGCCCTCCTCTCAGTACTAACAGTCTGTCAGCCTTTTATTTTTTGCATAGATA[TC]GTATTTTCTCTTCTTTATTGTCTGTCTTTCCACAAAAAATGCAAG			
6328	IS	[TC]		CCCCGTGAGTACTGG	ctg15064	7	
6342	I		S	GCATCATAAAACCAGGACGACGGCCCCA			
6342	P	G	S	ATGACGTGGCAGACCCTGGCTTCCCGGY			
6342	P	A	S	CGCGCCGAGGTCTGGCTTCCCGGY			
6342	T	G	S	CATACCGGGAAGCCAGGGGGGCCGTCGTCCTGGTTTTATGATGCGG			
6342	T	A	S	CATACCGGGAAGCCAGAGGGGCCGTCGTCCTGGTTTTATGATGCGG			
				TGATTGCTTTCATCCTGTGCTTTGAAACAGGGAAAATGCGTAGACATACCGGGAAGCCAG[GA]GGGGCCGTCGTCCTGGTTTTATGATGCGGGCAGGAGGAAGTT			
6342	IS	[GA]		ATCAAGGGCCGTCCCTGA	ctg14033	7	
6351	I		A	CCACGAAGCTAAGGTCAAAACGCTGGACATCTGT			
6351	P	A	A	CGCGCCGAGGAATAGCTTGGTTCTAGCATTATY			
6351	P	G	A	ATGACGTGGCAGACGATAGCTTGGTTCTAGCATTAY			
6351	T	A	A	ATAGATAATGCTAGAACCAAGCTATTCAGATGTCCAGCGTTTTGACCTTAGCTTCGTGGAA			
6351	T	G	A	ATAGATAATGCTAGAACCAAGCTATCCAGATGTCCAGCGTTTTGACCTTAGCTTCGTGGAA			
				TGCTAACCTGAAGCTCTATTTGATTTTCCACGAAGCTAAGGTCAAAACGCTGGACATCTG[AG]ATAGCTTGGTTCTAGCATTATCTATCTTAGGATAAACTGAACAA			
6351	IS	[AG]		AGTGGCCAAAAGAAGT	ctg13010	2	
6365	I		S	CATGAAATGGCAGCAATATGTCAACCTAATCAGCCTGTA			
6365	P	G	S	ATGACGTGGCAGACCGGCATCACCCAGCY			
6365	P	A	S	CGCGCCGAGGTGGCATCACCCAGCY			
6365	T	G	S	GGCAGCTGGGTGATGCCGACAGGCTGATTAGGTTGACATATTGCTGCCATTTCATGCT			
6365	T	A	S	GGCAGCTGGGTGATGCCAACAGGCTGATTAGGTTGACATATTGCTGCCATTTCATGCT			
				CGTTGTCATTTTTAGAGTGAGATCATGTTTGGTCGCAAAGCCAGGCAGCTGGGTGATGCC[GA]ACAGGCTGATTAGGTTGACATATTGCTGCCATTTCATGCTATT			
6365	IS	[GA]		CATTTGGTTTCCTGGGA	ctg15684	5	
6409	I		A	GATGAGCATCCCAGGATCGCAAGAGCCAA			
6409	P	T	A	CGCGCCGAGGTGTAGAAGCTGCATCTTGY			
6409	P	C	A	ATGACGTGGCAGACCGTAGAAGCTGCATCTTGY			
6409	T	T	A	TAAACAAGATGCAGCTTCTACATGGCTCTTGCGATCCTGGGATGCTCATCCT			
6409	T	C	A	TAAACAAGATGCAGCTTCTACGTGGCTCTTGCGATCCTGGGATGCTCATCCT			
				GCCTCCTCACAACATGGTGTCTGGATTCCCAGGATGAGCATCCCAGGATCGCAAGAGCCA[TC]GTAGAAGCTGCATCTTGTTTATACCTTTGCCTTGGAAGTTGCA			
6409	IS	[TC]		TGGCATCACCTCCACCA			
6415	I		S	GGACCCTTCTAGAGAGAGAGTTTCAAATTTGAATTCCTGTTCCATTCAATATT			
6415	P	C	S	ATGACGTGGCAGACGCTTTACAGCATCGGTATY			
6415	P	T	S	CGCGCCGAGGACTTTACAGCATCGGTATTGY			
6415	T	C	S	CCTCCAATACCGATGCTGTAAAGCATATTGAATGGAACAGGAATTCAAATTTGAAACTCTCTCTCTAGAAGGGTCCAT			
6415	T	T	S	CCTCCAATACCGATGCTGTAAAGTATATTGAATGGAACAGGAATTCAAATTTGAAACTCTCTCTCTAGAAGGGTCCAT			
				TGTTCATAATTTCAGCTGGATATTCTTAATAGGATTTCCTCCAATACCGATGCTGTAAAG[CT]ATATTGAATGGAACAGGAATTCAAATTTGAAACTCTCTCTCTAGA			
6415	IS	[CT]		AGGGTCCATGTGGGA	ctg15907	6	
6460	I		A	GCAGCAGTGCCCACGAAGTCCCCT			
6460	P	A	A	CGCGCCGAGGACCATCCACCACCAGY			
6460	P	G	A	ATGACGTGGCAGACGCCATCCACCACCAY			
6460	T	A	A	AATTCTGGTGGTGGATGGTGGGGACTTCGTGGGCACTGCTGCCC			
6460	T	G	A	AATTCTGGTGGTGGATGGCGGGGACTTCGTGGGCACTGCTGCCC			
				AAGCCAGCGCAGGGGGCCGCGGGGCTGTACCAGATGGGCAGCAGTGCCCACGAAGTCCCC[AG]CCATCCACCACCAGAATTGAGTTGTCAGGTAGCGTTTCCT			
6460	IS	[AG]		CCACCAGCTGCAGCACCTGC			
6461	I		S	GGCTGGGTATCCACGGGGGGCC			
6461	P	T	S	CGCGCCGAGGAGCAGGAGCCCATCY			
6461	P	A	S	ATGACGTGGCAGACTGCAGGAGCCCATCY			
6461	T	T	S	CTGTGATGGGCTCCTGCTGCCCCCCGTGGATACCCAGCCTG			
6461	T	A	S	CTGTGATGGGCTCCTGCAGCCCCCCGTGGATACCCAGCCTG			
				ACCACGAGGCCCGGGCCAACCTGAGACTGACCCTGTCAAGTGCCTGTGATGGGCTCCTGC[TA]GCCCCCCGTGGATACCCAGCCTGGCGTCACCGTCCCTGCA			
6461	IS	[TA]		GTGAGCTTCCCAGCCCCTAG	ctg16920	19	
6485	I		S	CTCCTCAAGCGCTCGGCATGCCTT			
6485	P	C	S	ATGACGTGGCAGACGCCACTGACTCTGAAGAY			
6485	P	G	S	CGCGCCGAGGCCCACTGACTCTGAAGAY			
6485	T	C	S	CCACTCTTCAGAGTCAGTGGCAGGCATGCCGAGCGCTTGAGGAGAG			
6485	T	G	S	CCACTCTTCAGAGTCAGTGGGAGGCATGCCGAGCGCTTGAGGAGAG			
				TTCATCCACACCCCCGGACCCGAGCTGCAGAGAGCACTGGCCACTCTTCAGAGTCAGTGG[CG]AGGCATGCCGAGCGCTTGAGGAGAGTCCAGCAGGGGCCAG			
6485	IS	[CG]		GAAGAAGCGAGCAGCAGGGC	ctg22fin4	22	GIII-SPLA2
6493	I		S	TGTTGTGGGGTGTATATGTGTGTGTGCATGTAATTATCCTACTTGC			
6493	P	C	S	ATGACGTGGCAGACGCTAACCAGCACAAGATT			
6493	P	A	S	CGCGCCGAGGTCTAACCAGCACAAGATTAAC			
6493	T	C	S	AATTGTTAATCTTGTGCTGGTTAGCCAAGTAGGATAATTACATGCACACACACATATACACCCCACAACACA			
6493	T	A	S	AATTGTTAATCTTGTGCTGGTTAGACAAGTAGGATAATTACATGCACACACACATATACACCCCACAACACA			
				AAGGAAGCCCATTTGCTTGGTGAAATAATCCTTTGTAATTGTTAATCTTGTGCTGGTTAG[CA]CAAGTAGGATAATTACATGCACACACACATATACACCCCACAACA			
6493	IS	[CA]		CACACAACAGAACAC			
6494	I		S	AGAGGTTCAGGTCCCTGGTGGCACCA			
6494	P	G	S	ATGACGTGGCAGACCGCCCAAACTCCAG			
6494	P	A	S	CGCGCCGAGGTGCCCAAACTCCAGG			
6494	T	G	S	TTTGCCTGGAGTTTGGGCGGGTGCCACCAGGGACCTGAACCTCTGC			
6494	T	A	S	TTTGCCTGGAGTTTGGGCAGGTGCCACCAGGGACCTGAACCTCTGC			

				GACAGGAAGCAGTGGGGGAGCATGGGGTGGCAAAGGGGAATGTTTGCCTGGAGTTTGGGC[GA]GGTGCCACCAGGGACCTGAACCTCTGCTTTTGTCTTTACAG		
6494	IS	[GA]		TGACCGAAGGAAGAGACCA	ctg15064	7
6497	I		S	GCTAGTAAGAGGCAGAACTAGTAATAGAATTCAGCCCTGCCA		
6497	P	G	S	ATGACGTGGCAGACCGATGCCAAAGTCTCTG		
6497	P	A	S	CGCGCCGAGGTGATGCCAAAGTCTCTGT		
6497	T	G	S	AATCACAGAGACTTTGGCATCGGGCAGGGCTGAATTCTATTACTAGTTCTGCCTCTTACTAGCTG		
6497	T	A	S	AATCACAGAGACTTTGGCATCAGGCAGGGCTGAATTCTATTACTAGTTCTGCCTCTTACTAGCTG		
				AAAAGGACAAGAACACTTTTAGAGTAAGCAGCATTTGGCAATCACAGAGACTTTGGCATC[GA]GGCAGGGCTGAATTCTATTACTAGTTCTGCCTCTTACTAGCTG		
6497	IS	[GA]		CATGACCTCTGAGCTAC	ctg15064	7
6546	I		A	TGCACACGCTTGAGAAGGACCTGGTGTCC		
6546	P	T	A	CGCGCCGAGGTGCCTGTGACCTCC		
6546	P	G	A	ATGACGTGGCAGACGGCCTGTGACCTCC		
6546	T	T	A	CCCAGGAGGTCACAGGCAGACACCAGGTCCTTCTCAAGCGTGTGCAGT		
6546	T	G	A	CCCAGGAGGTCACAGGCCGACACCAGGTCCTTCTCAAGCGTGTGCAGT		
				AAAGGTCACTGCTCTCTTTCCTTTTTAGCAACTGCACACGCTTGAGAAGGACCTGGTGTC[TG]GCCTGTGACCTCCTGGGTGTAGGGGCCGAGTACGCCCGGGT		
6546	IS	[TG]		GGTGGGATCTGAATACACA	ctg17207	19
6557	I		A	GACCCGGTAAAGCCTCAGGTTTCCTCATTATAATCCCA		
6557	P	C	A	ATGACGTGGCAGACCGCTAAGCCACCCTA		
6557	P	T	A	CGCGCCGAGGTGCTAAGCCACCCTATT		
6557	T	C	A	AGCAAATAGGGTGGCTTAGCGGGGATTATAATGAGGAAACCTGAGGCTTTACCGGGTCTT		
6557	T	T	A	AGCAAATAGGGTGGCTTAGCAGGGATTATAATGAGGAAACCTGAGGCTTTACCGGGTCTT		
				ATGTGGGCAGTGTTAAGCCACAAGACCCGGTAAAGCCTCAGGTTTCCTCATTATAATCCC[CT]GCTAAGCCACCCTATTTGCTCTTAAAATTTAACATAAATGGTTC		
6557	IS	[CT]		TCCGATGGTCTCTGTC	ctg25099	7
6601	I		A	TCAGGCTGAAAGTTGTAAGTATAGTATGACTCATCTCTTGTATTTTTCTGTCTTTCTCT		
6601	P	A	A	CGCGCCGAGGATTTCCTTCTTTCTTCTTTCTCT		
6601	P	G	A	ATGACGTGGCAGACGTTTCCTTCTTTCTTCTTTCTC		
6601	T	A	A	CCAAAGAGAAAGAAGAAAGAAGGAAATGAGAAAGACAGAAAAATACAAGAGATGAGTCATACTATACTTACAACTTTCAGCCTGATA		
6601	T	G	A	CCAAAGAGAAAGAAGAAAGAAGGAAACGAGAAAGACAGAAAAATACAAGAGATGAGTCATACTATACTTACAACTTTCAGCCTGATA		
				TATCAGGCTGAAAGTTGTAAGTATAGTATGACTCATCTCTTGTATTTTTCTGTCTTTCT[AG]TTTCCTTCTTTCTTCTTTCTCTTTGGTTGGTTTTCACGTCCAGTGT		
6601	IS	[AG]		CTTGTCTTACATTG		
6613	I		S	TGAATTGTGTCTCTTGACCTACTGCAAGCTTCCTTCCT		
6613	P	T	S	CGCGCCGAGGAAACACATAGTCAGAATCCC		
6613	P	C	S	ATGACGTGGCAGACGAACACATAGTCAGAATCCC		
6613	T	T	S	AATTGGGATTCTGACTATGTGTTTGGAAGGAAGCTTGCAGTAGGTCAAGAGACACAATTCAGG		
6613	T	C	S	AATTGGGATTCTGACTATGTGTTCGGAAGGAAGCTTGCAGTAGGTCAAGAGACACAATTCAGG		
				CTCAAACACTAAACTTGATTGTTCCAGTTTCAGAGAAAATTGGGATTCTGACTATGTGTT[TC]GGAAGGAAGCTTGCAGTAGGTCAAGAGACACAATTCAGGCAAGA		
6613	IS	[TC]		GCCAATTACTCATAAC	ctg19175	19
6690	I		A	GATTTACCAATTGCGGGAAAAAATTTGTTTCTATGTGTTTCTTT		
6690	P	G	A	ATGACGTGGCAGACGAGGGTGTCTGAGCGY		
6690	P	A	A	CGCGCCGAGGAAGGGTGTCTGAGCGY		
6690	T	G	A	CTGACGCTCAGACACCCTCAAGAAACACATAGAAACAAATTTTTTCCCGCAATTGGTAAATCAT		
6690	T	A	A	CTGACGCTCAGACACCCTTAAGAAACACATAGAAACAAATTTTTTCCCGCAATTGGTAAATCAT		
				TCCATGTTTTCTACCATGATTTACCAATTGCGGGAAAAAATTTGTTTCTATGTGTTTCTT[GA]AGGGTGTCTGAGCGTCAGTGTGAGGGGTTGGTCATATCCACTAC		
6690	IS	[GA]		TCAGAGAAGATTCTCC	ctg53	14
6714	I		S	CGCTTTCATCCGCACAATACGCTCCCTCTT		
6714	P	G	S	CGCGCCGAGGCAACTCCCTCAACAGCY		
6714	P	C	S	ATGACGTGGCAGACGAACTCCCTCAACAGCTY		
6714	T	G	S	TGGTAGCTGTTGAGGGAGTTGAGAGGGAGCGTATTGTGCGGATGAAAGCGGG		
6714	T	C	S	TGGTAGCTGTTGAGGGAGTTCAGAGGGAGCGTATTGTGCGGATGAAAGCGGG		
				TTTGTGTGGGGATTGGGGAGCTGTCGGGGCGGCTGCCATTTGGTAGCTGTTGAGGGAGTT[GC]AGAGGGAGCGTATTGTGCGGATGAAAGCGGGACGCTTCGA		
6714	IS	[GC]		GGCAGACGAAGGAACATCTG	ctg15128	17
6740	I		S	GCCCTAAAGCCCCATCCACCTCAAAGTGCT		
6740	P	G	S	ATGACGTGGCAGACCCAAACTTCACCTCTCCY		
6740	P	T	S	CGCGCCGAGGACAAACTTCACCTCTCCTY		
6740	T	G	S	CGCCAGGAGAGGTGAAGTTTGGGCACTTTGAGGTGGATGGGGCTTTAGGGCAT		
6740	T	T	S	CGCCAGGAGAGGTGAAGTTTGTGCACTTTGAGGTGGATGGGGCTTTAGGGCAT		
				CCAGGCCTGATTGCTCGAAAGCTTGCCCTTGCTCAGCTGCGCCAGGAGAGGTGAAGTTTG[GT]GCACTTTGAGGTGGATGGGGCTTTAGGGCATTGGCTGCTGG		
6740	IS	[GT]		GACCCCCAAAACCATGAGG	ctg15907	6
6767	I		S	GGCTATCCTTTGCCTGCATAAGAGTTTACAAAATATGATTA		
6767	P	A	S	CGCGCCGAGGTATTTTCTTTCTACCAATCCCAY		
6767	P	G	S	ATGACGTGGCAGACCATTTTCTTTCTACCAATCCCY		
6767	T	A	S	GAGGTGGGATTGGTAGAAAGAAAATAAATCATATTTTGTAAACTCTTATGCAGGCAAAGGATAGCCCA		
6767	T	G	S	GAGGTGGGATTGGTAGAAAGAAAATGAATCATATTTTGTAAACTCTTATGCAGGCAAAGGATAGCCCA		
				CATGAAATGATCTTTCTGTATTGGCTCAAGGACATGAGGTGGGATTGGTAGAAAGAAAAT[AG]AATCATATTTTGTAAACTCTTATGCAGGCAAAGGATAGCCCATC		
6767	IS	[AG]		TATATATGTATATACT	ctg15064	7
6769	I		S	TGGACATTGAAAGCCAGAAATTTACATTTCTGCATCCA		
6769	P	G	S	ATGACGTGGCAGACCAGCTAGATAATGCCACTTY		
6769	P	A	S	CGCGCCGAGGTAGCTAGATAATGCCACTTCTY		
6769	T	G	S	TTAGAGAAGTGGCATTATCTAGCTGGGATGCAGAAATGTAAATTTCTGGCTTTCAATGTCCATA		
6769	T	A	S	TTAGAGAAGTGGCATTATCTAGCTAGGATGCAGAAATGTAAATTTCTGGCTTTCAATGTCCATA		
				TAAGCTTCCCAGTGTATCTCCATTACTTGAGTTTCATTAGAGAAGTGGCATTATCTAGCT[GA]GGATGCAGAAATGTAAATTTCTGGCTTTCAATGTCCATATTTATT		
6769	IS	[GA]		TAAGAACCAGATTTA	ctg15064	7
6771	I		A	CCATTTTATATTTCATTTCTGAAGAGTCTACATGTACTATTTGTGAGAAAGGT		
6771	P	G	A	ATGACGTGGCAGACGTAAATTAGTCACCTTATATGAAGAGY		
6771	P	A	A	CGCGCCGAGGATAAATTAGTCACCTTATATGAAGAGAY		
6771	T	G	A	CAGCTCTCTTCATATAAGGTGACTAATTTACCCTTTCTCACAAATAGTACATGTAGACTCTTCAGAAATGAAATATAAAATGGGT		
6771	T	A	A	CAGCTCTCTTCATATAAGGTGACTAATTTATCCTTTCTCACAAATAGTACATGTAGACTCTTCAGAAATGAAATATAAAATGGGT		
				TAGAAGACCCATTTTATATTTCATTTCTGAAGAGTCTACATGTACTATTTGTGAGAAAGG[GA]TAATTAGTCACCTTATATGAAGAGAGCTGTTTTTAAAAAACTTGT		
6771	IS	[GA]		TATGGGATGCTGGC		
6772	I		A	GTTTTGCACCAAAACTCTAGATAAATTTTAAAGGCTGTAAAGAGAAATTT		
6772	P	G	A	ATGACGTGGCAGACGCTTAGAAATGGTGTGATAAACY		
6772	P	A	A	CGCGCCGAGGACTTAGAAATGGTGTGATAAACAY		
6772	T	G	A	TACCTGTTTATCACACCATTTCTAAGCAATTTCTCTTTACAGCCTTTAAAATTTATCTAGAGTTTTGGTGCAAAACAG		
6772	T	A	A	TACCTGTTTATCACACCATTTCTAAGTAATTTCTCTTTACAGCCTTTAAAATTTATCTAGAGTTTTGGTGCAAAACAG		
				ACCATTTTTCTGTTTTGCACCAAAACTCTAGATAAATTTTAAAGGCTGTAAAGAGAAATT[GA]CTTAGAAATGGTGTGATAAACAGGTATTTGGCATTTGCTCATTTC		
6772	IS	[GA]		TTGCTAAGGTGGAGT	ctg19247	7
6782	I		A	AGAATGCTGCTCTCTTCGAGGGCTTAGCTGAA		
6782	P	T	A	CGCGCCGAGGTCTTGGCATCCCGTGY		
6782	P	C	A	ATGACGTGGCAGACCCTTGGCATCCCGTY		
6782	T	T	A	GGTTCACGGGATGCCAAGATCAGCTAAGCCCTCGAAGAGAGCAGCATTCTAA		
6782	T	C	A	GGTTCACGGGATGCCAAGGTCAGCTAAGCCCTCGAAGAGAGCAGCATTCTAA		
				CTTGTAGTAGGATGGTTGTAAAATGGTTTAGAATGCTGCTCTCTTCGAGGGCTTAGCTGA[TC]CTTGGCATCCCGTGAACCCTGAGCAAAATTTAGTCACCTTCAC		
6782	IS	[TC]		TAGGAAATCCTGTAACC	ctg15422	X
6783	I		S	CTGCTTAAACTCCAAGTTATATTAACATCTTTCCCCATTCTAAGAAACTTGCTT		
6783	P	C	S	ATGACGTGGCAGACGTGTTCAGAGCTAAGCTATCY		
6783	P	T	S	CGCGCCGAGGATGTTCAGAGCTAAGCTATCY		
6783	T	C	S	TAGTGATAGCTTAGCTCTGAACACAGCAAGTTTCTTAGAATGGGGAAAGATGTTAATATAACTTGGAGTTTAAGCAGCA		
6783	T	T	S	TAGTGATAGCTTAGCTCTGAACATAGCAAGTTTCTTAGAATGGGGAAAGATGTTAATATAACTTGGAGTTTAAGCAGCA		

FIGURE 129B

				AGTAAGATTGCTGAAATCAAAAAGTATTTGAGCTTGATAGTGATAGCTTAGCTCTGAACA[CT]AGCAAGTTTCTTAGAATGGGGAAAGATGTTAATATAACTTGGAG			
6783	IS	[CT]		TTTAAGCAGCATCAAA	ctg15422	X	
6784	I		S	GAGATTCTTCCCATGCTTTCTGATGCCGCTGAT			
6784	P	T	S	CGCGCCGAGGAGTTCTTCAGGCTCTTCTAY			
6784	P	G	S	ATGACGTGGCAGACCGTTCTTCAGGCTCTTCY			
6784	T	T	S	CGGATAGAAGAGCCTGAAGAACTTCAGCGGCATCAGAAAGCATGGGAAGAATCTCCA			
6784	T	G	S	CGGATAGAAGAGCCTGAAGAACGTCAGCGGCATCAGAAAGCATGGGAAGAATCTCCA			
				ACTGAAGGTATTCTTGCTGCACTTCCTTCTGGAGGGTTCGGATAGAAGAGCCTGAAGAAC[TG]TCAGCGGCATCAGAAAGCATGGGAAGAATCTCCAGGTTTTTC			
6784	IS	[TG]		GTTTTGTCCAGCCCTTCG	ctg13715	13	
6817	I		A	CCAAAGCCAAGAAACTGTCTCCAAACTGATTGGACAAGTT			
6817	P	A	A	CGCGCCGAGGAGCTGACTAGTTCTCTTCTY			
6817	P	G	A	ATGACGTGGCAGACGGCTGACTAGTTCTCTTCTY			
6817	T	A	A	GGGGAGAAAGAAACTAGTCAGCTACTTGTCCAATCAGTTTGGAGACAGTTTCTTGGCTTTGGGG			
6817	T	G	A	GGGGAGAAAGAAACTAGTCAGCCACTTGTCCAATCAGTTTGGAGACAGTTTCTTGGCTTTGGGG			
				GATTGCAGGTAGGGTCAGGCCCCAAAGCCAAGAAACTGTCTCCAAACTGATTGGACAAGT[AG]GCTGACTAGTTCTCTTCTCCCCCAAATCCCAAGGTGCTCCAG			
6817	IS	[AG]		TCCCCAGCTCACTCAGCC	ctg15804	2	
6818	I		A	CTGATTGGACAAGTGGCTGACTAGTTCTCTTCTCCCT			
6818	P	C	A	CGCGCCGAGGCCAAATCCCAAGGTGCY			
6818	P	G	A	ATGACGTGGCAGACGCAAATCCCAAGGTGCY			
6818	T	C	A	TGGAGCACCTTGGGATTTGGGGGAGAAGAGAACTAGTCAGCCACTTGTCCAATCAGTT			
6818	T	G	A	TGGAGCACCTTGGGATTTGCGGGAGAAGAGAACTAGTCAGCCACTTGTCCAATCAGTT			
				CAAAGCCAAGAAACTGTCTCCAAACTGATTGGACAAGTGGCTGACTAGTTCTCTTCTCCC[CG]CAAATCCCAAGGTGCTCCAGTCCCCAGCTCACTCAGCCACATA			
6818	IS	[CG]		CACCATGTGTGAAGAGG	ctg15804	2	
6822	I		A	CATTAGGATCTCCCCACACCGGAACCCCT			
6822	P	G	A	ATGACGTGGCAGACGCTGCTGCTTCCGAY			
6822	P	A	A	CGCGCCGAGGACTGCTGCTTCCGAY			
6822	T	G	A	AGACTCGGAAGCAGCAGCGGGGTTCCGGTGTGGGGAGATCCTAATGAA			
6822	T	A	A	AGACTCGGAAGCAGCAGTGGGGTTCCGGTGTGGGGAGATCCTAATGAA			
				TCTAGTAGCCCTACGTATCCGGACCTGCCCTTCATTAGGATCTCCCCACACCGGAACCCC[GA]CTGCTGCTTCCGAGTCTCCCTTCAGCCCTCCACATCCCTACAT			
6822	IS	[GA]		TAATCCCTACATGGACT	ctg15064	7	GLI3
6824	I		S	CCTGGGACTCGTGTCTTCCTCACCGCA			
6824	P	G	S	ATGACGTGGCAGACCGCTGCCGCCCY			
6824	P	A	S	CGCGCCGAGGTGCTGCCGCCCY			
6824	T	G	S	CAGGGGGCGGCAGCGGCGGTGAGGAAGACACGAGTCCCAGGGA			
6824	T	A	S	CAGGGGGCGGCAGCAGCGGTGAGGAAGACACGAGTCCCAGGGA			
				ATTATATTTTACTTTTCCCCTTCCCACCCCTGCCCTTTGCATCCAACAGGGGGCGGCAGC[GA]GCGGTGAGGAAGACACGAGTCCCAGGGAGTCCTAGGAGCGC			
6824	IS	[GA]		GCAGTGGGTGGGGCTGGAC	ctg15804	2	
6834	I		A	GGCACACATGTCGCCAGCAGCCATT			
6834	P	G	A	ATGACGTGGCAGACGGATCGTTTCTGTAGCTCY			
6834	P	A	A	CGCGCCGAGGAGATCGTTTCTGTAGCTCTY			
6834	T	G	A	CCTGAGAGCTACAGAAACGATCCATGGCTGCTGGCGACATGTGTGCCCT			
6834	T	A	A	CCTGAGAGCTACAGAAACGATCTATGGCTGCTGGCGACATGTGTGCCCT			
				TCTGATCCTGGCCCGATGGTGCTGGTCGAGGGCCAGGGCACACATGTCGCCAGCAGCCAT[GA]GATCGTTTCTGTAGCTCTCAGGTCACTAGGACACGCTGGAG			
6834	IS	[GA]		CAGGGGCTGGTGACAAGTC	ctg30	7	
6835	I		S	GCCTGCTAATTTCGCAGGGGACACTGCT			
6835	P	T	S	CGCGCCGAGGAGTCACACATTTGGCATTY			
6835	P	C	S	ATGACGTGGCAGACGGTCACACATTTGGCATY			
6835	T	T	S	GCCAAATGCCAAATGTGTGACTGCAGTGTCCCCTGCGAAATTAGCAGGCAG			
6835	T	C	S	GCCAAATGCCAAATGTGTGACCGCAGTGTCCCCTGCGAAATTAGCAGGCAG			
				CTGGGGATGCTTATGTGCAATTGAATGAAGACCGCTGCTGCCAAATGCCAAATGTGTGAC[TC]GCAGTGTCCCCTGCGAAATTAGCAGGCAGTCTCTGGGTTCCC			
6835	IS	[TC]		CTCGACTCTCCTGTTTCT	ctg30	7	
6845	I		A	GGTCTCTGGGAACGTGGGATCTGAGCTCTA			
6845	P	C	A	ATGACGTGGCAGACCGACCTTCACAGACGGY			
6845	P	T	A	CGCGCCGAGGTGACCTTCACAGACGGY			
6845	T	C	A	AATACCGTCTGTGAAGGTCGAGAGCTCAGATCCCACGTTCCCAGAGACCCA			
6845	T	T	A	AATACCGTCTGTGAAGGTCAAGAGCTCAGATCCCACGTTCCCAGAGACCCA			
				GCGCCGTTGAACATGTGATCAGATGTTTGTGGGTCTCTGGGAACGTGGGATCTGAGCTCT[CT]GACCTTCACAGACGGTATTGTTTGGGCCATTGGGGGACCCC			
6845	IS	[CT]		GGAATCGGTTGCCAGCCCG	MULTIPLE	19	
6869	I		S	GCCCTATCTGGGAGCAAGTGAGGGGAGAACT			
6869	P	T	S	CGCGCCGAGGAGAGAACAGGAACCAGGY			
6869	P	C	S	ATGACGTGGCAGACGGAGAACAGGAACCAGGY			
6869	T	T	S	GAATCCTGGTTCCTGTTCTCTGTTCTCCCCTCACTTGCTCCCAGATAGGGCTG			
6869	T	C	S	GAATCCTGGTTCCTGTTCTCCGTTCTCCCCTCACTTGCTCCCAGATAGGGCTG			
				CATTCCATTTACACTACCTCCTACCCTGGGTCAGACACTCGAATCCTGGTTCCTGTTCTG[TC]GTTCTCCCCTCACTTGCTCCCAGATAGGGCTGTTGTTATTCTGG			
6869	IS	[TC]		TCCCAGCATAATTTGC	ctg14243	19	
6871	I		S	GGCGACGGCTCCACGATGCCAT			
6871	P	C	S	ATGACGTGGCAGACGTGTCTGACCTAGCCTY			
6871	P	T	S	CGCGCCGAGGATGTCTGACCTAGCCTGY			
6871	T	C	S	GGATCAGGCTAGGTCAGACACTGGCATCGTGGAGCCGTCGCCTC			
6871	T	T	S	GGATCAGGCTAGGTCAGACATTGGCATCGTGGAGCCGTCGCCTC			
				GGGCGGTGGCCAGCCGGCAGGGGTGTCGGGGCAAGGAGGCGGATCAGGCTAGGTCAGACA[CT]TGGCATCGTGGAGCCGTCGCCTCCTCCCAGGGAATGGGG			
6871	IS	[CT]		AGCCTGGAACCCATTTTCCAG	ctg16564	19	
6885	I		S	GGCTGTGTGTGGGCCCCTGCCT			
6885	P	G	S	CGCGCCGAGGCTGGTCTTTTCCCCCCY			
6885	P	C	S	ATGACGTGGCAGACGTGGTCTTTTCCCCCY			
6885	T	G	S	GGGTGGGGGGAAAAGACCAGGGCAGGGGCCCACACACAGCCTG			
6885	T	C	S	GGGTGGGGGGAAAAGACCACGGCAGGGGCCCACACACAGCCTG			
				GGGATGGCGGGCCATGACCAAAGCCATGGAGATAGGGTGTGGGGTGGGGGGAAAAGACCA[GC]GGCAGGGGCCCACACACAGCCTGGAGTCTGGGCTGTGAG			
6885	IS	[GC]		TCTTTTCATCTTTTCTCAAGG	ctg14007	17	
6901	I		A	CCTACGACATCCTCAAGGAGAAGCTGCTGGACTAA			
6901	P	T	A	CGCGCCGAGGTCACCTGCTCACTGGY			
6901	P	C	A	ATGACGTGGCAGACCCACCTGCTCACTGGY			
6901	T	T	A	CTCACCAGTGAGCAGGTGATAGTCCAGCAGCTTCTCCTTGAGGATGTCGTAGGTC			
6901	T	C	A	CTCACCAGTGAGCAGGTGGTAGTCCAGCAGCTTCTCCTTGAGGATGTCGTAGGTC			
				TATCGTCAACTGTGCTGAGGTGGTGACCTACGACATCCTCAAGGAGAAGCTGCTGGACTA[TC]CACCTGCTCACTGGTGAGGCCCTGGGCTCCAGGCAGGCAGC			
6901	IS	[TC]		TCTCCCTCAGCAGGGAGGG	ctg12475	11	
6902	I		A	CCCAGGCCAGGACCTTGGGAGATAGTT			
6902	P	C	A	CGCGCCGAGGCGCCTAACAACGGTGY			
6902	P	G	A	ATGACGTGGCAGACGGCCTAACAACGGTGY			
6902	T	C	A	ACTCCACCGTTGTTAGGCGACTATCTCCCAAGGTCCTGGCCTGGGGT			
6902	T	G	A	ACTCCACCGTTGTTAGGCCACTATCTCCCAAGGTCCTGGCCTGGGGT			
				CCTAAGTGGCAGCCCTGTGGGATGGATGAGCGACCCCAGGCCAGGACCTTGGGAGATAGT[CG]GCCTAACAACGGTGGAGTCAATGTGAGAGATGACACGTGAC			
6902	IS	[CG]		CTCCACTAGAGTGAGGCCT	ctg14145	11	
6903	I		A	GTGGGGGCATCCTGTGCATTGTAGATGCTTAATAGT			
6903	P	C	A	CGCGCCGAGGCATCCCTGGTCTCTACTCY			
6903	P	G	A	ATGACGTGGCAGACGATCCCTGGTCTCTACTCY			
6903	T	C	A	GAATGAGTAGAGACCAGGGATGCTATTAAGCATCTACAATGCACAGGATGCCCCCACCC			
6903	T	G	A	GAATGAGTAGAGACCAGGGATCCTATTAAGCATCTACAATGCACAGGATGCCCCCACCC			

FIGURE 129B

				TGGATAATTCTTCATATGATCAAGGGTGGGGGCATCCTGTGCATTGTAGATGCTTAATAG[CG]ATCCCTGGTCTCTACTCATTCGATACCAGGAGCAACTCACCAC			
6903	IS	[CG]		CCCACTCCTCACCCTAA	ctg15064	7	
4048	I		S	TCTTACTACTATACATAAACTGTGAGACTGGGTTAGGAAAGAGACAGAGGTAAA			
4048	P	A	S	CGCGCCGAGGTGACAGACACGATGGAAG			
4048	P	G	S	CGCGCCGAGGCGACAGACACGATGGAAG			
4048	T	A	S	GGGGCTTCCATCGTGTCTGTCATTACCTCTGTCTCTTTCCTAACCCAGTCTCACAGTTTATGTATAGTAGTAAGAGT			
4048	T	G	S	GGGGCTTCCATCGTGTCTGTCGTTACCTCTGTCTCTTTCCTAACCCAGTCTCACAGTTTATGTATAGTAGTAAGAGT			
				CCCACATCTCCTCTTTGTTTGCCATGGGATGATGTGGGGCTTCCATCGTGTCTGTC[AG]TTACCTCTGTCTCTTTCCTAACCCAGTCTCACAGTTTATGTATAGTAG			
4048	IS	[AG]		TAAGAGTTGTACTTCCACCAAAGGCATGTGACATATTACTGGCCG			
4054	I		S	AGGTGGGATGTGTTCATTGGACAATATACATTGCCGAA			
4054	P	A	S	CGCGCCGAGGTTGCTGAATATGAATGGAATCGA			
4054	P	G	S	CGCGCCGAGGCTGCTGAATATGAATGGAATCGA			
4054	T	A	S	TCCTTCGATTCCATTCATATTCAGCAATCGGCAATGTATATTGTCCAATGAACACATCCCACCTTA			
4054	T	G	S	TCCTTCGATTCCATTCATATTCAGCAGTCGGCAATGTATATTGTCCAATGAACACATCCCACCTTA			
				ACGGCCAGTCTGTTCACCATAGGTGGAAAGGCTCATTTTAAAAAGGGTCCCACTTCCTTCGATTCCATTCATATTCAGCA[AG]TCGGCAATGTATATTGTCCAATGA			
4054	IS	[AG]		ACACATCCCACCTTAAGAGCACACACTAGCTCATTAAACTGTCCT			
6944	I		A	GTGGGATAGTCTTGGTCTTCGTCATTTGTTTCTGTCT			
6944	P	A	A	CGCGCCGAGGACATGGTCACCTGCTCA			
6944	P	G	A	CGCGCCGAGGGCATGGTCACCTGCTC			
6944	T	A	A	TAAGTGAGCAGGTGACCATGTGACAGAAACAAATGACGAAGACCAAGACTATCCCACCA			
6944	T	G	A	TAAGTGAGCAGGTGACCATGCGACAGAAACAAATGACGAAGACCAAGACTATCCCACCA			
6944	IS	[AG]		TAATTTAATATCTGGTGGGATAGTCTTGGTCTTCGTCATTTGTTTCTGTC[AG]CATGGTCACCTGCTCACTTACAGTTAGGGGAAAGCTTACAGGGAGTCATG	ctg22fin4	22	
6952	I		A	GGGAGGAGACTCTTCCACCAGGAGGCAATTCT			
6952	P	G	A	CGCGCCGAGGGTGAGGGCTTACCTGCT			
6952	P	C	A	CGCGCCGAGGCTGAGGGCTTACCTGCT			
6952	T	G	A	AGAAAGCAGGTAAGCCCTCACGAATTGCCTCCTGGTGGAAGAGTCTCCTCCCCA			
6952	T	C	A	AGAAAGCAGGTAAGCCCTCAGGAATTGCCTCCTGGTGGAAGAGTCTCCTCCCCA			
6952	IS	[GC]		AACGCTCCTGAAGGGCTTGGGGAGGAGACTCTTCCACCAGGAGGCAATTC[GC]TGAGGGCTTACCTGCTTTCTAGGATGGGAAGGAGGCAGATCTGGTTCAGG	ctg22fin4	22	
6957	I		S	CCGGATTGTCCTCCCCCAAAATAAAGACAGAGATCATCCT			
6957	P	C	S	CGCGCCGAGGGTGTTTCTTCTCCTGTACGC			
6957	P	G	S	CGCGCCGAGGCTGTTTCTTCTCCTGTACGC			
6957	T	C	S	GTTCGCGTACAGGAGAAGAAACACGGATGATCTCTGTCTTTATTTTGGGGGAGGACAATCCGGCC			
6957	T	G	S	GTTCGCGTACAGGAGAAGAAACAGGGATGATCTCTGTCTTTATTTTGGGGGAGGACAATCCGGCC			
6957	IS	[CG]		TTGGTTCGATTTTGGAGCATCCACCAGGTTCGCGTACAGGAGAAGAAACA[CG]GGATGATCTCTGTCTTTATTTTGGGGGAGGACAATCCGGCCTTCTTGGGA	ctg22fin4	22	MGC15705
6958	I		A	GCTTACAAAGGCATTCCAGCTGTGGGGGTCAA			
6958	P	T	A	CGCGCCGAGGTAGAATATTGGGAAAGCCCTG			
6958	P	C	A	CGCGCCGAGGCAGAATATTGGGAAAGCCCT			
6958	T	T	A	TTCTCAGGGCTTTCCCAATATTCTATGACCCCCACAGCTGGAATGCCTTTGTAAGCTC			
6958	T	C	A	TTCTCAGGGCTTTCCCAATATTCTGTGACCCCCACAGCTGGAATGCCTTTGTAAGCTC			
6958	IS	[TC]		CATCCCTTCCTCAGCTGGAGCTTACAAAGGCATTCCAGCTGTGGGGGTCA[TC]AGAATATTGGGAAAGCCCTGAGAAGAGCTGAATCCGTTGGCTTTCAAGCT	ctg22fin4	22	
6964	I		A	CATGCAAACCTTTTCAGAAGCAAAATGAGCCTAGTCCAAGAT			
6964	P	G	A	CGCGCCGAGGGTCGAGTCCAAGATGTAACTTC			
6964	P	A	A	CGCGCCGAGGATCGAGTCCAAGATGTAACTTC			
6964	T	G	A	GCAGGAAGTTACATCTTGGACTCGACTCTTGGACTAGGCTCATTTTGCTTCTGAAAAGGTTTGCATGCG			
6964	T	A	A	GCAGGAAGTTACATCTTGGACTCGATTCTTGGACTAGGCTCATTTTGCTTCTGAAAAGGTTTGCATGCG			
6964	IS	[GA]		CTCGAGACGCATGCAAACCTTTTCAGAAGCAAAATGAGCCTAGTCCAAGA[GA]TCGAGTCCAAGATGTAACTTCCTGCTTGTCAAAAAGCTACAAGAGGCTGG	ctg22fin4	22	
6966	I		A	CGCACACCAAGCAGCTTGTGGGCCT			
6966	P	A	A	CGCGCCGAGGACAGAGCACCTGAGCCY			
6966	P	G	A	CGCGCCGAGGGCAGAGCACCTGAGCY			
6966	T	A	A	ACACGGCTCAGGTGCTCTGTGGCCCACAAGCTGCTTGGTGTGCGAT			
6966	T	G	A	ACACGGCTCAGGTGCTCTGCGGCCCACAAGCTGCTTGGTGTGCGAT			
6966	IS	[AG]		TGAACCCCAGGCCTCAAACCCTAGATCGCACACCAAGCAGCTTGTGGGCC[AG]CAGAGCACCTGAGCCGTGTCTCACTGTCTGCCCAAGCCCTGATGCATGAT	ctg22fin4	22	
6968	I		S	AGATTGAACAATTAAGTTCTTAAAAACCTGGAAAGATTAACATAAAACTGA			
6968	P	A	S	CGCGCCGAGGTCCCCACCCAAGAATAAATTTAC			
6968	P	G	S	CGCGCCGAGGCCCCCACCCAAGAATAAATT			
6968	T	A	S	AAATGTAAATTTATTCTTGGGTGGGGACAGTTTTATGTTAATCTTTCCAGGTTTTTAAGAACTTAATTGTTCAATCT			
6968	T	G	S	AAATGTAAATTTATTCTTGGGTGGGGGCAGTTTTATGTTAATCTTTCCAGGTTTTTAAGAACTTAATTGTTCAATCT			
6968	IS	[AG]		GTGGTAAAGCAATCTTAAGTTCTTAAATGTAAATTTATTCTTGGGTGGGG[AG]CAGTTTTATGTTAATCTTTCCAGGTTTTTAAGAACTTAATTGTTCAATCT	ctg22fin3	22	
6970	I		S	CTGGAGTAGGGTCTGATACGAACTAGTTGTTTGACCT			
6970	P	T	S	CGCGCCGAGGATGGTAAGGCACCTAACTCG			
6970	P	G	S	CGCGCCGAGGCTGGTAAGGCACCTAACTC			
6970	T	T	S	GAAGCGAGTTAGGTGCCTTACCATGGTCAAACAACTAGTTCGTATCAGACCCTACTCCAGAA			
6970	T	G	S	GAAGCGAGTTAGGTGCCTTACCAGGGTCAAACAACTAGTTCGTATCAGACCCTACTCCAGAA			
6970	IS	[TG]		TTGACAGATGTGACAGATGAAGAAATAGAAGCGAGTTAGGTGCCTTACCA[TG]GGTCAAACAACTAGTTCGTATCAGACCCTACTCCAGAAACTATTCCAGTC	ctg22fin4	22	
6971	I		A	GGCCCCAGCTCCCGAGTTCCTGAATGAAAT			
6971	P	C	A	CGCGCCGAGGCAGTGAAAACACGAACCCA			
6971	P	A	A	CGCGCCGAGGAAGTGAAAACACGAACCCAG			
6971	T	C	A	ACTCCTGGGTTCGTGTTTTCACTGTTTCATTCAGGAACTCGGGAGCTGGGGCCAC			
6971	T	A	A	ACTCCTGGGTTCGTGTTTTCACTTTTTCATTCAGGAACTCGGGAGCTGGGGCCAC			
6971	IS	[CA]		AACCTGAAGGGCCAAGGGAGTGGCCCCAGCTCCCGAGTTCCTGAATGAAA[CA]AGTGAAAACACGAACCCAGGAGTGTGGACCAGTGCTGACGCTGACATGCA	MULTIPLE	22	
6977	I		S	CTCCGTGTCCCTGAACTGTCTTAGAAAATGCCTGTTACCA			
6977	P	A	S	CGCGCCGAGGTGGGCCTAGGGAGGY			
6977	P	G	S	CGCGCCGAGGCGGGCCTAGGGAGGY			
6977	T	A	S	CCTGCCTCCCTAGGCCCAGGTAACAGGCATTTTCTAAGACAGTTCAGGGACACGGAGGC			
6977	T	G	S	CCTGCCTCCCTAGGCCCGGGTAACAGGCATTTTCTAAGACAGTTCAGGGACACGGAGGC			
6977	IS	[AG]		GACGGAATCCCTGGGATGTCCCCAACGCTGGGCCCTGCCTCCCTAGGCCC[AG]GGTAACAGGCATTTTCTAAGACAGTTCAGGGACACGGAGGCACCCCGCTG	ctg22fin4	22	
6983	I		S	GAGGCCCCTGGCAGGCCCCT			
6983	P	T	S	CGCGCCGAGGAGCTTCTGGCTCCAGGY			
6983	P	C	S	CGCGCCGAGGGGCTTCTGGCTCCAGGY			
6983	T	T	S	AACGCCTGGAGCCAGAAGCTGGGGCCTGCCAGGGGCCTCCC			
6983	T	C	S	AACGCCTGGAGCCAGAAGCCGGGGCCTGCCAGGGGCCTCCC			
6983	IS	[TC]		CAAAGCCTGCCTGGGGCTGGGCAGGGAAACCAACGCCTGGAGCCAGAAGC[TC]GGGGCCTGCCAGGGGCCTCCCCGTGCCCACCAAAGGGCAGTGGTTGCAAT	ctg22fin4	22	
6995	I		A	CGGTGGTGAGAGAGCGCCAGGTACGT			
6995	P	G	A	CGCGCCGAGGGCACTTGCTGGGCAC			
6995	P	C	A	CGCGCCGAGGCCACTTGCTGGGCAC			
6995	T	G	A	CACAGTGCCCAGCAAGTGCCGTACCTGGCGCTCTCTCACCACCGGC			
6995	T	C	A	CACAGTGCCCAGCAAGTGGCGTACCTGGCGCTCTCTCACCACCGGC			



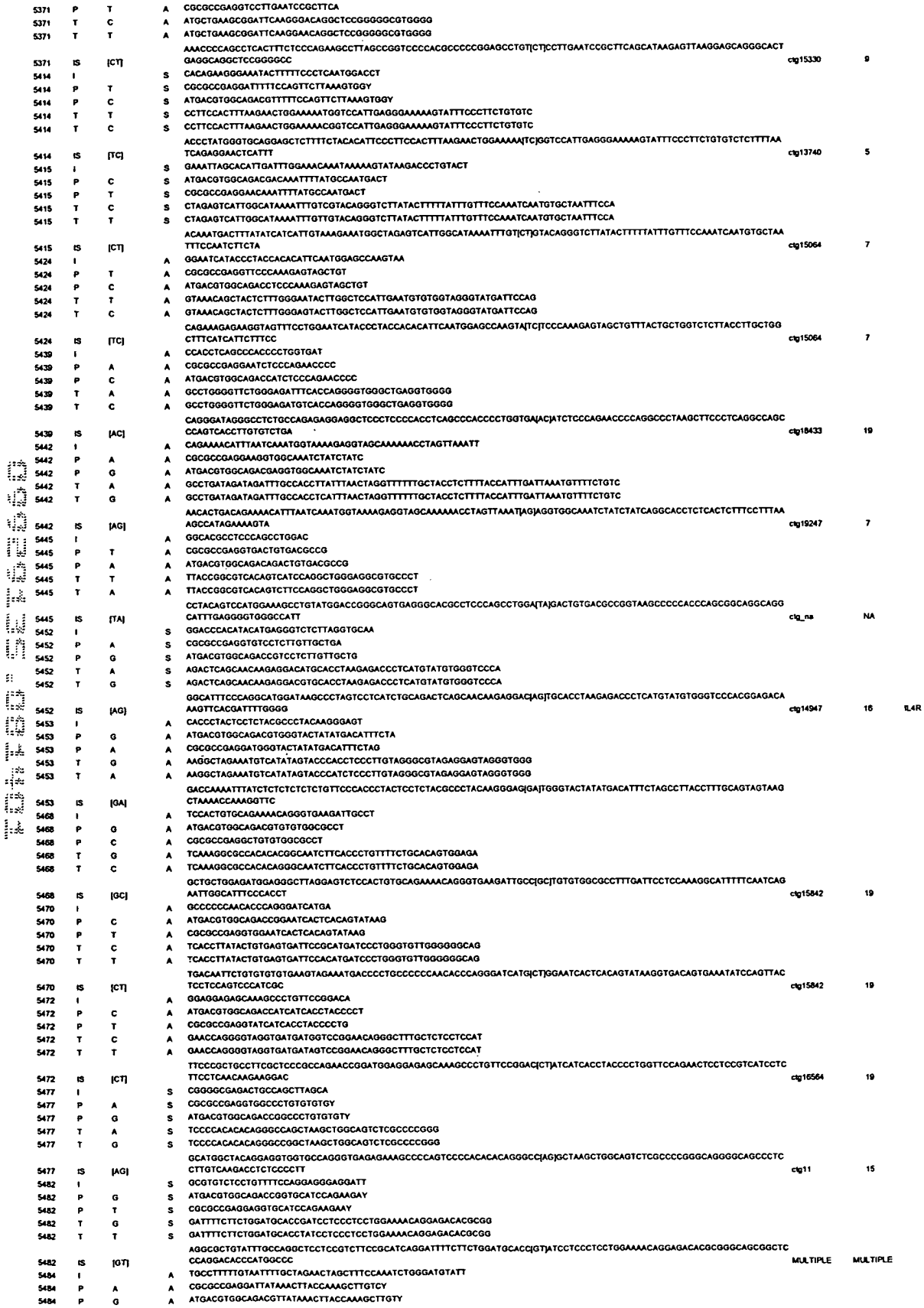
FIGURE 129B

6995	IS	[GC]		CGCCATAAGCTAATTAGCTGGGGGCCGGTGGTGAGAGAGCGCCAGGTACG[GC]CACTTGCTGGGCACTGTGCCCTTTCATCAGCCTAACAGCCCAGTGCTCAG	ctg22fin8	22
7029	I		A	CTCTCTCCTGGCAGTAAAGCCTCCCACCTACAA		
7029	P	C	A	CGCGCCGAGGCACTTGGGCATGGCTAC		
7029	P	T	A	CGCGCCGAGGTACTTGGGCATGGCTACC		
7029	T	C	A	TGTGGGTAGCCATGCCCAAGTGTGTAGGTGGGAGGCTTTACTGCCAGGAGAGAGGG		
7029	T	T	A	TGTGGGTAGCCATGCCCAAGTATGTAGGTGGGAGGCTTTACTGCCAGGAGAGAGGG		
7029	IS	[CT]		CAAAATGTGAAAGGGACCCTCTCTCCTGGCAGTAAAGCCTCCCACCTACA[CT]ACTTGGGCATGGCTACCCACATTTCCCCAGAGGAGGAACACCGCTGCTTT	ctg22fin4	22
7050	I		A	TTGGGATGGAGCCTCCCATGGATAGGAACTCTTA		
7050	P	INS	A	CGCGCCGAGGCTCTGGTTGATGCTCAGC		
7050	P	DEL	A	CGCGCCGAGGCCTGGTTGATGCTCAGC		
7050	T	INS	A	CATCTGCTGAGCATCAACCAGAGAAGAGTTCCTATCCATGGGAGGCTCCATCCCAACA		
7050	T	DEL	A	CATCTGCTGAGCATCAACCAGGAAGAGTTCCTATCCATGGGAGGCTCCATCCCAACA		
7050	IS	[-T]		ATCCTCTTCACACCTGTTGGGATGGAGCCTCCCATGGATAGGAACTCTTC[-T]CTGGTTGATGCTCAGCAGATGACTGATCTGGCTCTGGAGGACAGCTCCAG	ctg22fin4	22
7063	I		S	CCTGTGTGTCCCCGTCCCCACCCA		
7063	P	G	S	CGCGCCGAGGCAATACTCCCTTCTGGGATG		
7063	P	A	S	CGCGCCGAGGTAATACTCCCTTCTGGGATGC		
7063	T	G	S	TCATGCATCCCAGAAGGGAGTATTGGGGTGGGGACGGGGACACACAGGGC		
7063	T	A	S	TCATGCATCCCAGAAGGGAGTATTAGGGTGGGGACGGGGACACACAGGGC		
7063	IS	[GA]		CTAGGAAGAACGCAACCTGCCCAAGGTCATGCATCCCAGAAGGGAGTATT[GA]GGGTGGGGACGGGGACACACAGGGCTGTCTGATTGTGATTTCTCGCCTCT	ctg22fin4	22
7086	I		A	GGAATTACCATGCAGCCATTGGCCCATTCAAAAAATAAAAATAAAAAGGTC		
7086	P	T	A	CGCGCCGAGGTATGAAGATTAAGCCAATAAGTCTGAG		
7086	P	G	A	CGCGCCGAGGGATGAAGATTAAGCCAATAAGTCTGA		
7086	T	T	A	TCCTCTCAGACTTATTGGCTTAATCTTCATAACCTTTTTATTTTTATTTTTTGAATGGGCCAATGGCTGCATGGTAATTCC		
7086	T	G	A	TCCTCTCAGACTTATTGGCTTAATCTTCATCACCTTTTTATTTTTATTTTTTGAATGGGCCAATGGCTGCATGGTAATTCC		
7086	IS	[TG]		GGAATTACCATGCAGCCATTGGCCCATTCAAAAAATAAAAATAAAAAGGT[TG]ATGAAGATTAAGCCAATAAGTCTGAGAGGAAGATAAAAATCACAGGGGAT		
7087	I		S	GATCCTACTTTCCCAAGGGTATTTCTGCCCATCCATCAC		
7087	P	A	S	CGCGCCGAGGTCACACTTCCATCTCAACCA		
7087	P	T	S	CGCGCCGAGGACACACTTCCATCTCAACC		
7087	T	A	S	AGTGTGGTTGAGATGGAAGTGTGATTGATGGATGGGCAGAAATACCCTTGGGAAAGTAGGATCAT		
7087	T	T	S	AGTGTGGTTGAGATGGAAGTGTGTTGATGGATGGGCAGAAATACCCTTGGGAAAGTAGGATCAT		
7087	IS	[AT]		GAAATAAGTCTGGTACAGCCTTCTCACAGTGTGGTTGAGATGGAAGTGTG[AT]TGATGGATGGGCAGAAATACCCTTGGGAAAGTAGGATCATAGCCAAAGAT	ctg22fin4	22
7116	I		S	ACTCAGCTGTGTGGACTTGCCCACATATGTAAGAGTTGA		
7116	P	A	S	CGCGCCGAGGTCTACTTGTCAGCTACTCTAGG		
7116	P	G	S	CGCGCCGAGGCCTACTTGTCAGCTACTCTAGG		
7116	T	A	S	CCATCCTAGAGTAGCTGACAAGTAGACAACTCTTACATATGTGGGCAAGTCCACACAGCTGAGTCC		
7116	T	G	S	CCATCCTAGAGTAGCTGACAAGTAGGCAACTCTTACATATGTGGGCAAGTCCACACAGCTGAGTCC		
7116	IS	[AG]		GGTTGTTCAGTTACTCCAACCAGAACCATCCTAGAGTAGCTGACAAGTAG[AG]CAACTCTTACATATGTGGGCAAGTCCACACAGCTGAGTCCAGACAGAGTC	ctg22fin4	22
7118	I		A	GCTCTTTTCCCACCAATTTTCCCAACTGATATTCACAACTACCCTAT		
7118	P	A	A	CGCGCCGAGGACAGGTAGGCAGCTTAACT		
7118	P	G	A	CGCGCCGAGGGCAGGTAGGCAGCTTAAC		
7118	T	A	A	GATTAGTTAAGCTGCCTACCTGTTAGGGTAGTTGTGAATATCAGTTGGGAAAATTGGTGGGAAAAGAGCTT		
7118	T	G	A	GATTAGTTAAGCTGCCTACCTGCTAGGGTAGTTGTGAATATCAGTTGGGAAAATTGGTGGGAAAAGAGCTT		
7118	IS	[AG]		CCAAGCTCTTTTCCCACCAATTTTCCCAACTGATATTCACAACTACCCTA[AG]CAGGTAGGCAGCTTAACTAATCTTACACTCATTTTGCAGATGAGAAACAT	ctg22fin4	22
7123	I		S	GGAAGAAACCACCTTGGGGAGAAGGAATGGGGT		
7123	P	C	S	CGCGCCGAGGGTGTGGACGAAGGCCY		
7123	P	G	S	CGCGCCGAGGCTGTGGACGAAGGCCAY		
7123	T	C	S	TGTCTGGCCTTCGTCCACACCCCATTCCTTCTCCCCAAGGTGGTTTCTTCCTG		
7123	T	G	S	TGTCTGGCCTTCGTCCACAGCCCCATTCCTTCTCCCCAAGGTGGTTTCTTCCTG		
7123	IS	[CG]		TACTGGGGCAGGCTGTGAAAGCTCTCCCCAATGTCTGGCCTTCGTCCACA[CG]CCCCATTCCTTCTCCCCAAGGTGGTTTCTTCCTGGGGGTATCCCCTTTGG	ctg22fin4	22
7125	I		A	AGTGCTGAGATTACAGGTATAAGCCATCGCACCCCT		
7125	P	INS	A	CGCGCCGAGGGGCCTAGAATAGATTCTTAACCC		
7125	P	DEL	A	CGCGCCGAGGGCCTAGAATAGATTCTTAACCCTG		
7125	T	INS	A	CCACCAGGGTTAAGAATCTATTCTAGGCCGGGGGTGCGATGGCTTATACCTGTAATCTCAGCACTTT		
7125	T	DEL	A	CCACCAGGGTTAAGAATCTATTCTAGGCGGGGTGCGATGGCTTATACCTGTAATCTCAGCACTTT		
7125	IS	[G-]		CCTTGACCTCCCAAAGTGCTGAGATTACAGGTATAAGCCATCGCACCCCG[G-]CCTAGAATAGATTCTTAACCCTGGTGGTACATCAGAAACAGATTTTTAAG	MULTIPLE	MULTIPLE
4154	I		A	TGCTGCAGAAATGTTGCGTTTGATTATGAGACTACT		
4154	P	C	A	CGCGCCGAGGCCCAACTCCCCAAGGY		
4154	P	G	A	ATGACGTGGCAGACGCCAACTCCCCAAGGY		
4154	T	C	A	ACACCCTTGGGGAGTTGGGGTAGTCTCATAATCAAACGCAACATTTCTGCAGCAAA		
4154	T	G	A	ACACCCTTGGGGAGTTGGCGTAGTCTCATAATCAAACGCAACATTTCTGCAGCAAA		
				CCAGACCTCAATTGAGACAAGGCTATTTAAGCTTCCTCCCAGTTGGTGTAAATATTCAATAGTTTTGCTGCAGAAATGTTGCGTTTGATTATGAGACTAC[CG]CCAA		
4154	IS	[CG]		CTCCCCAAGGGTGTTTTGTGGTGCTGGTTTCTGTATAAACCTGAAAAATTCTGAATTCCAAAACTTATCTGACCCCCAAAGTTTCAGATAAGAGCT	ctg17326	12
4214	I		S	TGCTTGCTGGATGAAGTCCTGTGGGGAGTAAA		
4214	P	A	S	CGCGCCGAGGTGTTTCTGAGTTTGTGGAATY		
4214	P	G	S	ATGACGTGGCAGACCGTTTCTGAGTTTGTGGAY		
4214	T	A	S	GTGGATTCCACAAACTCAGAAACATTACTCCCCACAGGACTTCATCCAGCAAGCAAT		
4214	T	G	S	GTGGATTCCACAAACTCAGAAACGTTACTCCCCACAGGACTTCATCCAGCAAGCAAT		
				GATGTCAAAGATACCTTTTGGTTCTTTAGTTTTGTGGATCCAACACTAACTGACTTTCAGATTCTAAAACCCACCATGTGGATTCCACAAACTCAGAAAC[AG]TTACT		
4214	IS	[AG]		CCCCACAGGACTTCATCCAGCAAGCAATTTCCTATTCCAGTTTTCCATTCTGGATGGGGCTGTCTCGGAGGAACCCCAGCTACCCATGGCTCTGG	ctg14210	12
4229	I		S	GCCGACCTGGGTTCCAACCCTGCT		
4229	P	G	S	ATGACGTGGCAGACCTGCTCCCTGTCCTG		
4229	P	T	S	CGCGCCGAGGATGCTCCCTGTCCTG		
4229	T	G	S	TCAACAGGACAGGGAGCAGGCAGGGTTGGAACCCAGGTCGGCCT		
4229	T	T	S	TCAACAGGACAGGGAGCATGCAGGGTTGGAACCCAGGTCGGCCT		
				CTAGAACTTGGTATGACTGCTGTTGTTACTGGGAGAACACTATGCAAATGAGGAAAGTGGGGCTGCAAGTGGAATTAGAGCGTCAACAGGACAGGGAGCA[GT]GC		
4229	IS	[GT]		AGGGTTGGAACCCAGGTCGGCCTGGTCCCTTATCGTGCTCCTCCGGGCATGGGTGACAGAGGGAGGAAGGAGGGAGAAATGGAGGGAAATGGAAACAG	ctg1565	1
4281	I		S	GGTGGATGTGTCCAGAAAATTAAGGAAGGTGAATGGAAGAACT		
4281	P	C	S	ATGACGTGGCAGACGTTTTATTTCTGGGCACAAC		
4281	P	G	S	CGCGCCGAGGCTTTTATTTCTGGGCACAAC		
4281	T	C	S	GGAAGTTGTGCCCAGAAATAAAAGGTTCTTCCATTCACCTTCCTTAATTTTCTGGACACATCCACCCT		
4281	T	G	S	GGAAGTTGTGCCCAGAAATAAAAGGTTCTTCCATTCACCTTCCTTAATTTTCTGGACACATCCACCCT		
				CTGCACCATCTTGTTTCATGTGGCATTTCCTATGGAAGTCTCCTCTTCAAATACATAAAAAACAGAAAAGAAAATTAGGAAGTTGTGCCCAGAAATAAAA[CG]GTTCT		
4281	IS	[CG]		TCCATTCACCTTCCTTAATTTTCTGGACACATCCACCCTATTCCTCATATCTTGCCATTAGTTCTCTCTTCTTTTTCCCAGGGAAGAGACATCAT	ctg16537	20
4301	I		A	CCACCTAGCCACCCACCTGATGTTTATTCAACACT		
4301	P	A	A	CGCGCCGAGGATATTATCCACCAGGCCCY		

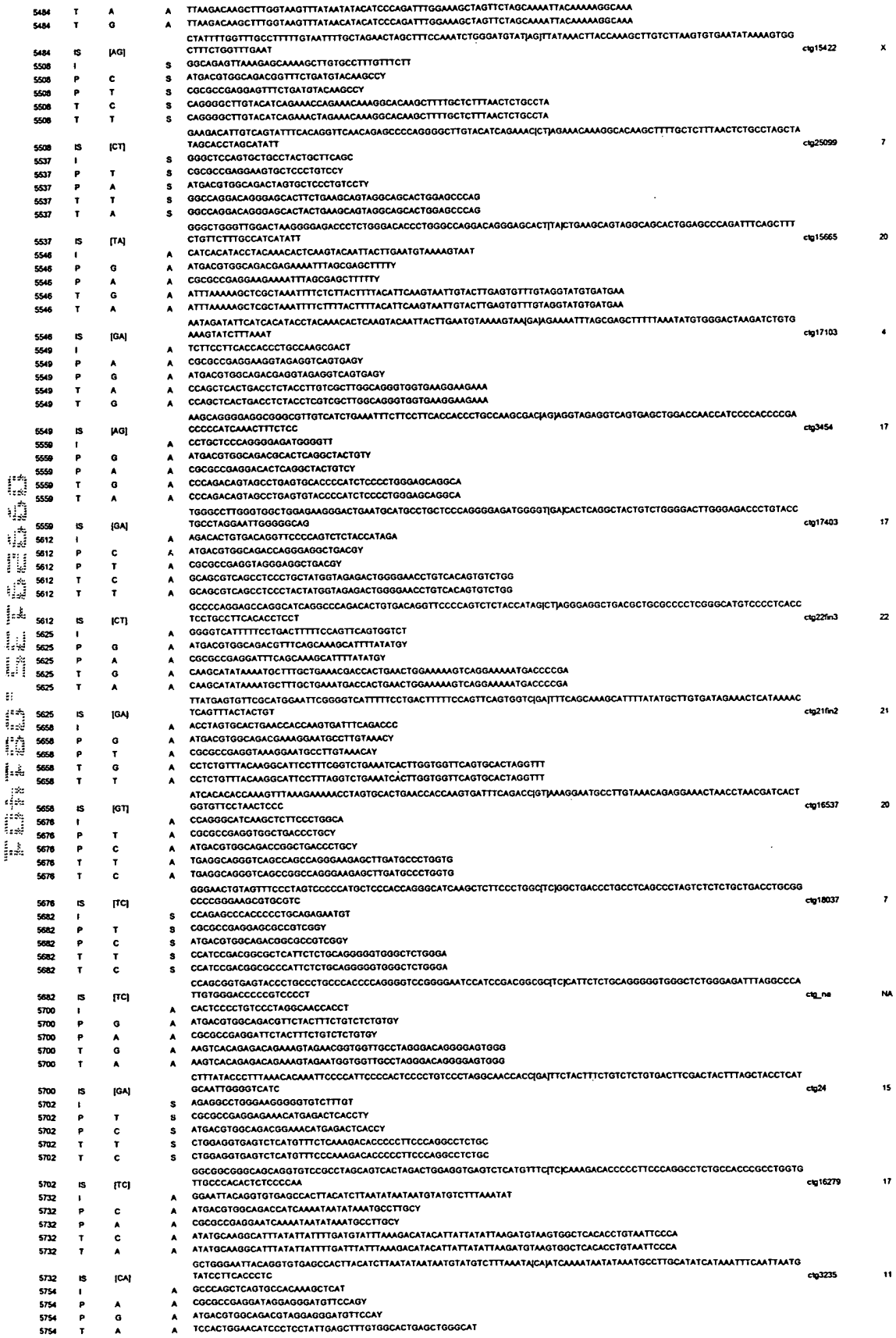
4301	P	G	A	ATGACGTGGCAGACGTATTATCCACCAGGCCY			
4301	T	A	A	AAGTGGGCCTGGTGGATAATATGTGTTGAATAAACATCAGGTGGGTGGCTAGGTGGCC			
4301	T	G	A	AAGTGGGCCTGGTGGATAATACGTGTTGAATAAACATCAGGTGGGTGGCTAGGTGGCC			
				TCCTCCGAGGTAGGAAGGCCACCTCCCCAAGACCTCCCCTGTCCCCACACCCGCATCATTATCTGGCCACCTAGCCACCCACCTGATGTTTATTCAACAC[AG]TAT			
4301	IS	[AG]		TATCCACCAGGCCCACTTCCAGGACACCCTGAGCTCCCCTCCTTGCTACTTTTCATCCTCAAAACACTCCCATCACCAGAGTTGGGGGAGGGGCAGC	ctg16263	1	
4405	I		A	GGGACCCAGCCCCACCTTCACCAA			
4405	P	C	A	ATGACGTGGCAGACCCTGCTAACTGTCCCC			
4405	P	T	A	CGCGCCGAGGTCTGCTAACTGTCCCC			
4405	T	C	A	GGGTGGGGACAGTTAGCAGGTGGTGAAGGTGGGGCTGGGTCCCTC			
4405	T	T	A	GGGTGGGGACAGTTAGCAGATGGTGAAGGTGGGGCTGGGTCCCTC			
				GTCTGTGTGTTAACACAAGTGTGTTCAAGAGTGTGTTATATGAGCATATAATGCATGTGTGTATTCTCGAGGGCTGAGGGACCCAGCCCCACCTTCACCA[CT]CTG			
4405	IS	[CT]		CTAACTGTCCCCACCCCCACAGCAGGCCCAGCACAGGGATCACATTGTCGGGGTGACCTGGCTTATACTTGAAGCCTTTGAGCTGGACCCTGGCTTT	ctg15749	X	
4502	I		A	AGGGACCAGAATGCTCTTAGAACGNAGGAGATGGGC			
4502	P	G	A	ATGACGTGGCAGACGTCAGAAGGTTGTCAGTC			
4502	P	T	A	CGCGCCGAGGTTCAGAAGGTTGTCAGTCA			
4502	T	G	A	TCACTGACTGACAACCTTCTGACCCCATCTCCTNCGTTCTAAGAGCATTCTGGTCCCTGA			
4502	T	T	A	TCACTGACTGACAACCTTCTGAACCCATCTCCTNCGTTCTAAGAGCATTCTGGTCCCTGA			
				AGGAAGACAAAATCTGCATTTAAGGTGATCCTCCAACTAGGTTTCCTCTCCAAAACTCACTGTTCAGGGACCAGAATGCTCTTAGAACGNAGGAGATGGG[GT]TCA			
4502	IS	[GT]		GAAGGTTGTCAGTCAGTGACAGGGTGAGCATCACAGGAATTGCTGTCCTCCCGTGGTCCAAGACAGCCTCTGACCATCCATTCCAGTCTACTGCACT	ctg53	14	
4516	I		S	CTTCTGCCTGGAGCCCAGATACCCCAAAT			
4516	P	T	S	CGCGCCGAGGACCGGAGCCAGC			
4516	P	C	S	ATGACGTGGCAGACGCCGGAGCCAGC			
4516	T	T	S	GGCAGCTGGCTCCGGTTTTGGGGTATCTGGGCTCCAGGCAGAAGCA			
4516	T	C	S	GGCAGCTGGCTCCGGCTTTGGGGTATCTGGGCTCCAGGCAGAAGCA			
				TGCCGTTCCTCGGCAGCCCAGCCTGCGTAGACGGTCCCGCGGCGCTGACTGACCGGGCTGTGCTTTCTCGTCTTCAGCACCAGCAGGCAGCTGGCTCCGG[TC]			
4516	IS	[TC]		TTTGGGGTATCTGGGCTCCAGGCAGAAGCACAGCCTCCCCGACCTGCCCTACGACTACGGCGCCCTGGAACCTCACATCAACGCGCAGATCATGCAGCTG	ctg13516	6	
4524	I		S	GGCTCCCGGACCCCCGCAA			
4524	P	A	S	CGCGCCGAGGTGGGCTCCTTACCG			
4524	P	G	S	ATGACGTGGCAGACCGGGCTCCTTACCG			
4524	T	A	S	GCCCCGGTAAGGAGCCCATGCGGGGGTCCGGGAGCCGG			
4524	T	G	S	GCCCCGGTAAGGAGCCCGTGCGGGGGTCCGGGAGCCGG			
				TGGGCAACCCCTTTCTGACCCAGTGGCAGCGGCGGTACTTCTACCTGTTCCCCAACCGCCTCGAGTGGCGGGGCGAGGGCGAGGCCCCGGTAAGGAGCCC[AG]			
4524	IS	[AG]		TGCGGGGGTCCGGGAGCCGGGCTTCCGGGTGGCTGGCCGGCCCGCTCTTCACCTGCACCACCCATCCCTGGCCCTGCAGCAGAGCCTGCTGACCATGGAG	ctg14333	11	
4525	I		S	GGCCTAACACTGTTGGCACCTCCTCCTGA			
4525	P	G	S	ATGACGTGGCAGACCTTACCTGGGAAGTGGCY			
4525	P	A	S	CGCGCCGAGGTTTACCTGGGAAGTGGCY			
4525	T	G	S	TTCTGCCACTTCCCAGGTAAGCAGGAGGAGGTGCCAACAGTGTTAGGCCTG			
4525	T	A	S	TTCTGCCACTTCCCAGGTAAACAGGAGGAGGTGCCAACAGTGTTAGGCCTG			
				CCCTCCCAGCTGACAGTCCTCTCCACCTAGTGGCTGTCCAGTGCCCATTCCTCACCTTTTCCCGGGGAGGAGAGAGCAGCTTCTGCCACTTCCCAGGTAA[GA]CA			
4525	IS	[GA]		GGAGGAGGTGCCAACAGTGTTAGGCCTGGCACAGTGTCTGGGTGATCGGGACC			ADRBK1
4554	I		A	ATGAACTTCTAAACCTCACGGGAGGGTCATT			
4554	P	C	A	CGCGCCGAGGCTTAGAACATGAAAAACTCCC			
4554	P	G	A	ATGACGTGGCAGACGTTAGAACATGAAAAACTCCC			
4554	T	C	A	TCAGGGGAGTTTTTCATGTTCTAAGATGACCCTCCCGTGAGGTTTAGAAGTTCATTT			
4554	T	G	A	TCAGGGGAGTTTTTCATGTTCTAACATGACCCTCCCGTGAGGTTTAGAAGTTCATTT			
				AAGCCTAGATCAGCTGCCCTATGATGGGTGCAGGCCTTATAGACATGCCCAGATGAAGTCATATCTAAAAATGAACTTCTAAACCTCACGGGAGGGTCAT[CG]TTA			
4554	IS	[CG]		GAACATGAAAAACTCCCCTGAAAATTTTTGTCAGTGCAACAGGTTTTGTTTACTTGGCAACAGTGAGCCCACTGTGGGAAAGGGGTTTTCCCAGCAG	ctg14326	3	
4632	I		A	GGGTTTACACATAGTCCTCTGCCCCTGTCCCA			
4632	P	C	A	ATGACGTGGCAGACCGCTGCACAGGTGY			
4632	P	T	A	CGCGCCGAGGTGCTGCACAGGTGGY			
4632	T	C	A	GAAACCACCTGTGCAGCGGGGACAGGGGCAGAGGACTATGTGTAAACCCCC			
4632	T	T	A	GAAACCACCTGTGCAGCAGGGACAGGGGCAGAGGACTATGTGTAAACCCCC			
				ACGGGAAGGCGCACCAGGTGTTCATTCTGAGGGAGGTAGGTGGGGAGGACAAAAGGGCCCCTGCCTTGGGGGTTTACACATAGTCCTCTGCCCCTGTCCC[CT]			
4632	IS	[CT]		GCTGCACAGGTGGTTTCAGTTGGGCAGGAGCCTGTGCTGTTCTCCGGTTCTGTGAGGAACAACATTGCTTATGGGCTGCAGAGCTGCGAAGATGATAAGG	ctg15907	6	
4691	I		S	CTCATTCATCTATGGAAAGAGGCATGAGGACACCTTGACT			
4691	P	G	S	ATGACGTGGCAGACCCTCTTCCCCATGCGY			
4691	P	T	S	CGCGCCGAGGACTCTTCCCCATGCGY			
4691	T	G	S	TCCACGCATGGGGAAGAGGGTCAAGGTGTCCTCATGCCTCTTTCCATAGATGAATGAGTG			
4691	T	T	S	TCCACGCATGGGGAAGAGTGTCAAGGTGTCCTCATGCCTCTTTCCATAGATGAATGAGTG			
				ACCAGAAATTCAAAGCAAGCTTCCTCTGTGAGTGTCCAGACTCTTACTCACCAACATTATCCATTGTGACCGTCACAGATTCTCCACGCATGGGGAAGAG[GT]GTC			
4691	IS	[GT]		AAGGTGTCCTCATGCCTCTTTCCATAGATGAATGAGTGCCCCAGTGAAGTGGATGGTCAAAATTTCATTCTGGGTCCCCACACTACAGAAGTGCCACT	ctg13446	1	
4694	I		S	GGTGCTTCTTACCTTGACCACACATTCCCTGCT			
4694	P	C	S	ATGACGTGGCAGACGGAGAAGATGGACGACGY			
4694	P	T	S	CGCGCCGAGGAGAAGATGGACGACGY			
4694	T	C	S	ACAGCGTCGTCCATCTTCTCCGCAGGGAATGTGTGGTCAAGGTAAGAAGCACCTG			
4694	T	T	S	ACAGCGTCGTCCATCTTCTCTGCAGGGAATGTGTGGTCAAGGTAAGAAGCACCTG			
				TGAGGCATGGAGGGTCATCATGGGTGGGTCCACTGTCCTCACTGATACTCCATTCATAGGTGTATTCTCGGCCTGGAGCCACAGCGTCGTCCATCTTCTC[CT]GC			
4694	IS	[CT]		AGGGAATGTGTGGTCAAGGTAAGAAGCACCTGGAGGAGTAACAGCCATCAAGACATGTGGGCAGTTTCTGAGGATTGCGTTTTCACCACTCTCAAATC	ctg13446	1	
4876	I		A	GTTTTTCCAACAGAACCAGACAGGTTTCTCCTGAAACTCTTTCT			
4876	P	A	A	CGCGCCGAGGATTATACGCCATGTACTGTTC			
4876	P	G	A	ATGACGTGGCAGACGTTATACGCCATGTACTGTT			
4876	T	A	A	ATATGAACAGTACATGGCGTATAATGAAAGAGTTTCAGGAGAAACCTGTCTGGTTCTGTTGGAAAAACTC			
4876	T	G	A	ATATGAACAGTACATGGCGTATAACGAAAGAGTTTCAGGAGAAACCTGTCTGGTTCTGTTGGAAAAACTC			
				CTGCGCCAGGAGACGGAGTTTTTCCAACAGAACCAGACAGGTTTCTCCTGAAACTCTTTC[AG]TTATACGCCATGTACTGTTCATATCCTCATACATCTGCTTTGAT			
4876	IS	[AG]		CTCCCCCCTCCCCGCT	ctg15907	6	
4946	I		A	CACCCCAGCCTCCAGAACCCCATCAA			
4946	P	T	A	CGCGCCGAGGTCGTGGAGTGGCG			
4946	P	C	A	ATGACGTGGCAGACCCGTGGAGTGGCG			
4946	T	T	A	CTTACGCCACTCCACGATGATGGGGTTCTGGAGGCTGGGGTGCT			
4946	T	C	A	CTTACGCCACTCCACGGTGATGGGGTTCTGGAGGCTGGGGTGCT			
				CCCAGCGTGGAGACGTCTACACCTGCCACGTGGAGCACCCCAGCCTCCAGAACCCCATCA[TC]CGTGGAGTGGCGTAAGGGGATATTGAGTTTCTGTTACTATG			
4946	IS	[TC]		GGCCCCACAAGACAAAGGG	ctg15907	6	
4960	I		A	CCAACCAAATATTCCCTGGCCTGGGCTGAGT			
4960	P	A	A	CGCGCCGAGGACGAGTCTGGGGACT			
4960	P	G	A	ATGACGTGGCAGACGCGAGTCTGGGGAC			
4960	T	A	A	ATCAAGTCCCCAGACTCGTCTCAGCCCAGGCCAGGGAATATTTGGTTGGGT			
4960	T	G	A	ATCAAGTCCCCAGACTCGCCTCA3CCCAGGCCAGGGAATATTTGGTTGGGT			
				ATGGAGCCTGAGGCAGAGATGCCGCCACACCCAACCAAATATTCCCTGGCCTGGGCTGAG[AG]CGAGTCTGGGGACTTGATTGCACTGTGTATTGGTCAAACCTC			
4960	IS	[AG]		TTGCACTGTCTGCCTCCC	ctg17333	X	
5012	I		S	GGCGACAGGGAGGACCACTTTGTAGTCAAAT			

5012	P	T	S	CGCGCCGAGGAGTTGAACAGCAGGATC		
5012	P	C	S	ATGACGTGGCAGACGGTTGAACAGCAGGATC		
5012	T	T	S	CAACGATCCTGCTGTTCAACTTTTGACTACAAAGTGGTCCTCCCTGTCGCCCT		
5012	T	C	S	CAACGATCCTGCTGTTCAACCTTTGACTACAAAGTGGTCCTCCCTGTCGCCCT		
5012	IS	[TC]		CCTTCCAGCCCCCAACAGGTTCCCACTAACCTCCATTGCCCAACGATCCTGCTGTTCAAC[TC]TTTGACTACAAAGTGGTCCTCCCTGTCGCCCTCAAGGTAGTCT CATGACCCCCTCCACCC	ctg15907	6
5014	I		A	GATCTGATGCCCTGTGGCTCTGAGACACCT		
5014	P	A	A	CGCGCCGAGGATGAACAGGGTCCCTC		
5014	P	G	A	ATGACGTGGCAGACGTGAACAGGGTCCCT		
5014	T	A	A	TGTAGAGGGACCCTGTTCATGGTGTCTCAGAGCCACAGGGCATCAGATCTG		
5014	T	G	A	TGTAGAGGGACCCTGTTCACGGTGTCTCAGAGCCACAGGGCATCAGATCTG		
5014	IS	[AG]		TGGGCAGGGGTGTGCCCTTAGGATTGGCACAGATCTGATGCCCTGTGGCTCTGAGACACC[AG]TGAACAGGGTCCCTCTACATTGGTGACTTCTGTCTCACCAG GATACCCAGACAGCGTTGT	ctg22fin4	22
5018	I		A	TCCCAGGATAGACTCCTATTGGCTTGGGTAGATCCC		
5018	P	T	A	CGCGCCGAGGTATGTCCATGCCCAAGT		
5018	P	A	A	ATGACGTGGCAGACAATGTCCATGCCCAAG		
5018	T	T	A	CCCAACTTGGGCATGGACATAGGATCTACCCAAGCCAATAGGAGTCTATCCTGGGACT		
5018	T	A	A	CCCAACTTGGGCATGGACATTGGATCTACCCAAGCCAATAGGAGTCTATCCTGGGACT		
5018	IS	[TA]		TCTTTTCCAGTACTTCTATCAAAAGTCCCAGGATAGACTCCTATTGGCTTGGGTAGATCC[TA]ATGTCCATGCCCAAGTTGGGGTGGACAAGATACATGCCCCAAG TCGGGGTGGACAAGCTG	ctg22fin4	22
5033	I		A	AGCCCTTCCTCTGATTAGCTCTGTGTCCCCT		
5033	P	A	A	CGCGCCGAGGAAGGAAGATCCAAAATCTCTC		
5033	P	G	A	ATGACGTGGCAGACGAGGAAGATCCAAAATCTCTC		
5033	T	A	A	TCAGGAGAGATTTTGGATCTTCCTTGGGGACACAGAGCTAATCAGAGGAAGGGCTGG		
5033	T	G	A	TCAGGAGAGATTTTGGATCTTCCTCGGGGACACAGAGCTAATCAGAGGAAGGGCTGG		
5033	IS	[AG]		AATATGCACAGTGACTGATGACTTCTCACCAGCCCTTCCTCTGATTAGCTCTGTGTCCCC[AG]AGGAAGATCCAAAATCTCTCCTGACTTCAGTTTCCCCTGCTATA AAACAGGGATGGGCTA	ctg22fin6	22
5036	I		A	TGCCCCCTGCCAGGCAAGCACA		
5036	P	C	A	ATGACGTGGCAGACCCCACAAAGTCCTTCCT		
5036	P	T	A	CGCGCCGAGGTCCACAAAGTCCTTCCT		
5036	T	C	A	AGGCAGGAAGGACTTTGTGGGGTGCTTGCCTGGCAGGGGGCAGT		
5036	T	T	A	AGGCAGGAAGGACTTTGTGGAGTGCTTGCCTGGCAGGGGGCAGT		
5036	IS	[CT]		GTGTTAAAGCTGGGTAAAAAGCAAAGCAGCTGTGCAGACTGCCCCCTGCCAGGCAAGCAC[CT]CCACAAAGTCCTTCCTGCCTCTTCCTGCCTGCCTTTGGCTAA AAGCATCTTTCCAGAGAG	ctg15907	6
5045	I		A	CACTAAGCCTCCAAAAACAGGAAACATGAAAAAGCCCAA		
5045	P	T	A	CGCGCCGAGGTAGGATTGCTTCCAGTGA		
5045	P	C	A	ATGACGTGGCAGACCAGGATTGCTTCCAGTG		
5045	T	T	A	AATGTCACTGGAAGCAATCCTATGGGCTTTTTCATGTTTCCTGTTTTTGGAGGCTTAGTGCG		
5045	T	C	A	AATGTCACTGGAAGCAATCCTGTGGGCTTTTTCATGTTTCCTGTTTTTGGAGGCTTAGTGCG		
5045	IS	[TC]		CGGCTCTATCAATGCCAGTTCGCACTAAGCCTCCAAAAACAGGAAACATGAAAAAGCCCA[TC]AGGATTGCTTCCAGTGACATTACCACGTTCTGGCTCAGGCCTA TGTCACTTCCATTGTGT	ctg25099	7
5046	I		A	TGCCAGCAACTCAGCCAGGTAGGCTT		
5046	P	G	A	ATGACGTGGCAGACGTTACCTGATGGGATGAC		
5046	P	C	A	CGCGCCGAGGCTTACCTGATGGGATGAC		
5046	T	G	A	TTTGGTCATCCCATCAGGTAACAGCCTACCTGGCTGAGTTGCTGGCAGT		
5046	T	C	A	TTTGGTCATCCCATCAGGTAAGAGCCTACCTGGCTGAGTTGCTGGCAGT		
5046	IS	[GC]		CTTCTCCCCACCCTTCCTATGTTGTCTCTACCCACTGCCAGCAACTCAGCCAGGTAGGCT[GC]TTACCTGATGGGATGACCAAACTTTCAATCTGGAATAATCTGA GTGCTTGATAGCCTTGG	ctg15064	7
5052	I		S	CAGAAGTAGTGGCCATTGCCATCCTAGGTCTCAC		
5052	P	C	S	ATGACGTGGCAGACGAGAAGGGCAATACTGTTT		
5052	P	A	S	CGCGCCGAGGTAGAAGGGCAATACTGTTTG		
5052	T	C	S	CCCCCAAACAGTATTGCCCTTCTCTGAGACCTAGGATGGCAATGGCCACTACTTCTGAT		
5052	T	A	S	CCCCCAAACAGTATTGCCCTTCTATGAGACCTAGGATGGCAATGGCCACTACTTCTGAT		
5052	IS	[CA]		GGCCACCCTAGGTATGTTTTATATGCCTTCCTCCACACCCCCAAACAGTATTGCCCTTCT[CA]TGAGACCTAGGATGGCAATGGCCACTACTTCTGATCCTACTGA AGGTCCTCTCTGCATCT	ctg15064	7
5063	I		S	TGCTTAAAAAATATCCCATTCTTTTCTTCCAAAACCATTTTTATCAGAAATGT		
5063	P	T	S	CGCGCCGAGGACCTCAGCCCCTTG		
5063	P	G	S	ATGACGTGGCAGACCCCTCAGCCCCTTG		
5063	T	T	S	GGCTCAAGGGGCTGAGGTCATTTCTGATAAAAATGGTTTTGGAAGAAAAGAATGGGATATTTTTTAAGCATT		
5063	T	G	S	GGCTCAAGGGGCTGAGGGCATTTCTGATAAAAATGGTTTTGGAAGAAAAGAATGGGATATTTTTTAAGCATT		
5063	IS	[TG]		TGCTTTATCTGCTTTTGGCTCCAGTGATCTCTGAATTCCTAGTGGCTCAAGGGGCTGAGG[TG]CATTTCTGATAAAAATGGTTTTGGAAGAAAAGAATGGGATATTT TTTAAGCATTAGGGAG	ctg15665	20
5096	I		S	CACAAGGCAGGGCTGAGACTTAAACCCCAT		
5096	P	T	S	CGCGCCGAGGATGGAGGGAAACAACAGT		
5096	P	C	S	ATGACGTGGCAGACGTGGAGGGAAACAACAG		
5096	T	T	S	CCTGACTGTTGTTTCCCTCCATTGGGGTTTAAGTCTCAGCCCTGCCTTGTGTT		
5096	T	C	S	CCTGACTGTTGTTTCCCTCCACTGGGGTTTAAGTCTCAGCCCTGCCTTGTGTT		
5096	IS	[TC]		CACAAAAGGCAGGGATTTACACCCAGGATTTGGAAGGCACCTGACTGTTGTTTCCCTCCA[TC]TGGGGTTTAAGTCTCAGCCCTGCCTTGTGTTAGCTGTGTGACC CAAGGCAGCCTGCTTCA	ctg14391	11
5183	I		A	CCTCCGTGCTGAGCCTCAGAAAGGGGA		
5183	P	C	A	ATGACGTGGCAGACCAGGGAGCCCCATG		
5183	P	T	A	CGCGCCGAGGTAGGGAGCCCCATG		
5183	T	C	A	CTGGCATGGGGCTCCCTGCCCCTTTCTGAGGCTCAGCACGGAGGGG		
5183	T	T	A	CTGGCATGGGGCTCCCTACCCCTTTCTGAGGCTCAGCACGGAGGGG		
5183	IS	[CT]		GCTGCTGGTTCCCTCTGAAAATGTGGGTTTCTCCCCTCCGTGCTGAGCCTCAGAAAGGGG[CT]AGGGAGCCCCATGCCAGCACACATGGCCCCTCGGCTCTCTG GCCTCTGCAGGGTCAGCCC	ctg22fin4	22
5288	I		S	CCCTGACCACCATTTTCCAGAAGTACCTCCGAGAATAA		
5288	P	G	S	ATGACGTGGCAGACCGCCTGGAAAATCCTC		
5288	P	A	S	CGCGCCGAGGTGCCTGGAAAATCCTCT		
5288	T	G	S	CCAGAGAGGATTTTCCAGGCGTATTCTCGGAGGTACTTCTGGAAAATGGTGGTCAGGGCG		
5288	T	A	S	CCAGAGAGGATTTTCCAGGCATATTCTCGGAGGTACTTCTGGAAAATGGTGGTCAGGGCG		
5288	IS	[GA]		CACTCAGACTATGAAGAACAGGACTCACTTGGGCAGGTTGCCAGAGAGGATTTTCCAGGC[GA]TATTCTCGGAGGTACTTCTGGAAAATGGTGGTCAGGGCGATC ATGGGCTCCCCAGTACTG	ctg14072	17
5289	I		S	CCTGTGGTCCCTCGCTGATGTATAGCAAGTGTTTA		
5289	P	G	S	ATGACGTGGCAGACCAAACTCTTGTTAGCAAAGATGY		
5289	P	A	S	CGCGCCGAGGTAAACTCTTGTTAGCAAAGATGY		
5289	T	G	S	AAACCATCTTTGCTAACAAGAGTTTGAAACACTTGCTATACATCAGCGAGGGACCACAGGCC		
5289	T	A	S	AAACCATCTTTGCTAACAAGAGTTTAAAACACTTGCTATACATCAGCGAGGGACCACAGGCC		
5289	IS	[GA]		GTAGCGGAAGGCCATCTCCCGGGCACAGACACCGAAAACCATCTTTGCTAACAAGAGTTT[GA]AAACACTTGCTATACATCAGCGAGGGACCACAGGCCAACTCC TGATGGGCTGGGTGTATA	ctg15140	12
5370	I		A	AGCCTCCAGGGAGCCACACACACAGA		
5370	P	C	A	ATGACGTGGCAGACCTCAAGGGCCTGGTTY		
5370	P	T	A	CGCGCCGAGGTTCAAGGGCCTGGTTY		
5370	T	C	A	AGAGAACCAGGCCCTTGAGCTGTGTGTGTGGCTCCCTGGAGGCTGG		
5370	T	T	A	AGAGAACCAGGCCCTTGAACTGTGTGTGTGGCTCCCTGGAGGCTGG		
5370	IS	[CT]		CCCTTTGGGGCACCAATGGGCATAGTGCCTGGCCCAGCCTCCAGGGAGCCACACACACAG[CT]TCAAGGGCCTGGTTCTCTGAGAGGGCAGTGAACCTCCCACC AATGGCCCAGACTTTTCCA	MULTIPLE	MULTIPLE
5371	I		A	CCACGCCCCCGGAGCCTGTA		
5371	P	C	A	ATGACGTGGCAGACCCCTTGAATCCGCTTC		

FIGURE 129B



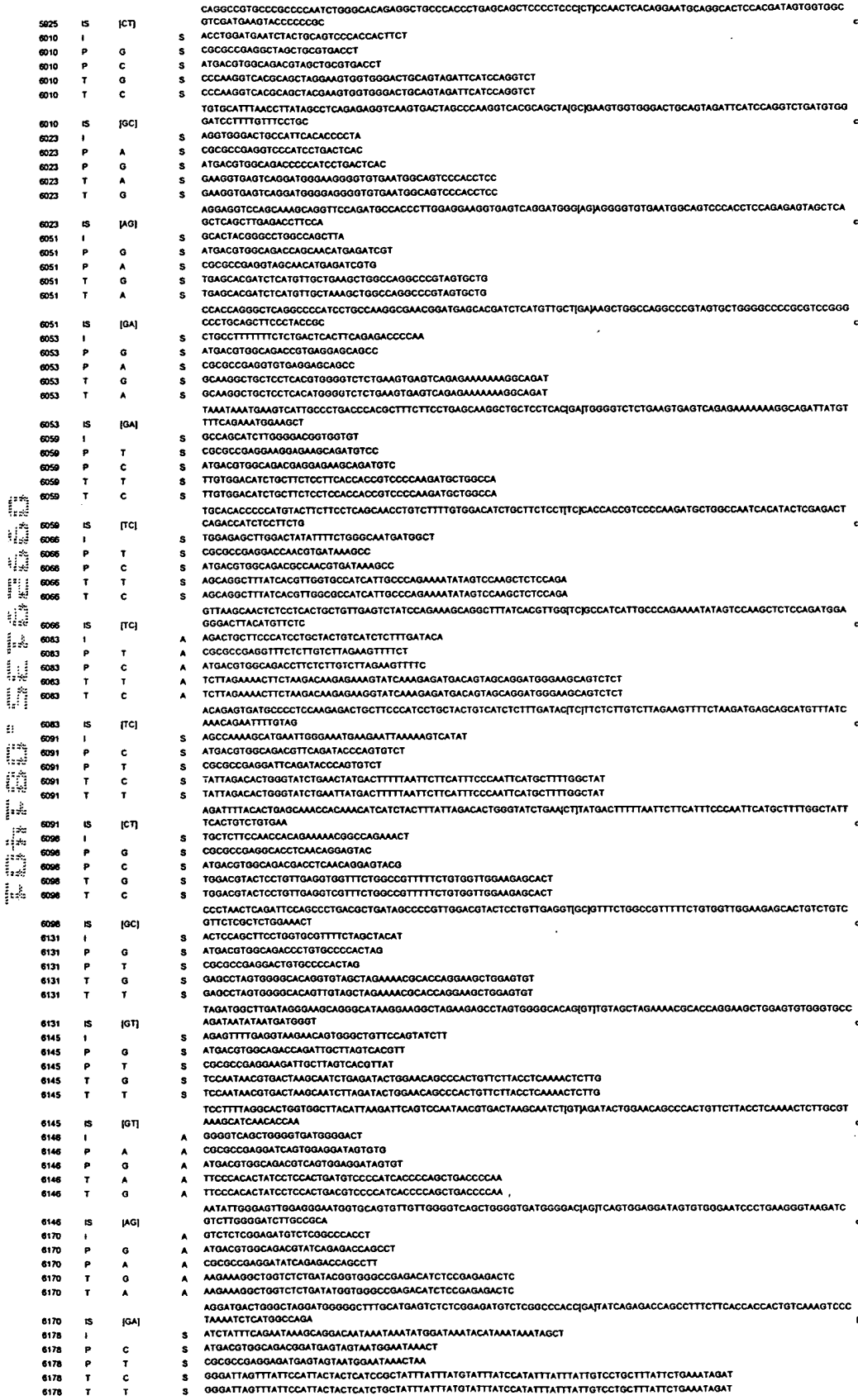
5371	P	T	A	CGCGCCGAGGTCCTTGAATCCGCTTCA			
5371	T	C	A	ATGCTGAAGCGGATTCAAGGGACAGGCTCCGGGGGGCGTGGGG			
5371	T	T	A	ATGCTGAAGCGGATTCAAGGAACAGGCTCCGGGGGCGTGGGG			
5371	IS	[CT]		AAACCCCAGCCTCACTTTCTCCCAGAAGCCTTAGCCGGTCCCCACGCCCCCGGAGCCTGT[CT]CCTTGAATCCGCTTCAGCATAAGAGTTAAGGAGCAGGGCACT GAGGCAGGCTCCGGGGCC	ctg15330	9	
5414	I		S	CACAGAAGGGAAATACTTTTTCCCTCAATGGACCT			
5414	P	T	S	CGCGCCGAGGATTTTTCCAGTTCTTAAAGTGGY			
5414	P	C	S	ATGACGTGGCAGACGTTTTTCCAGTTCTTAAAGTGGY			
5414	T	T	S	CCTTCCACTTTAAGAACTGGAAAAATGGTCCATTGAGGGAAAAAGTATTTCCCTTCTGTGTC			
5414	T	C	S	CCTTCCACTTTAAGAACTGGAAAAACGGTCCATTGAGGGAAAAAGTATTTCCCTTCTGTGTC			
5414	IS	[TC]		ACCCTATGGGTGCAGGAGCTCTTTTCTACACATTCCCTTCCACTTTAAGAACTGGAAAAA[TC]GGTCCATTGAGGGAAAAAGTATTTCCCTTCTGTGTCTCTTTTAA TCAGAGGAACTCATTT	ctg13740	5	
5415	I		S	GAAATTAGCACATTGATTTGGAAACAAATAAAAAGTATAAGACCCTGTACT			
5415	P	C	S	ATGACGTGGCAGACGACAAATTTTATGCCAATGACT			
5415	P	T	S	CGCGCCGAGGAACAAATTTTATGCCAATGACT			
5415	T	C	S	CTAGAGTCATTGGCATAAAATTTGTCGTACAGGGTCTTATACTTTTTATTTGTTTCCAAATCAATGTGCTAATTTCCA			
5415	T	T	S	CTAGAGTCATTGGCATAAAATTTGTTGTACAGGGTCTTATACTTTTTATTTGTTTCCAAATCAATGTGCTAATTTCCA			
5415	IS	[CT]		ACAAATGACTTTATATCATCATTGTAAAGAAATGGCTAGAGTCATTGGCATAAAATTTGT[CT]GTACAGGGTCTTATACTTTTTATTTGTTTCCAAATCAATGTGCTAA TTTCCAATCTTCTA	ctg15064	7	
5424	I		A	GGAATCATACCCTACCACACATTCAATGGAGCCAAGTAA			
5424	P	T	A	CGCGCCGAGGTTCCCAAAGAGTAGCTGT			
5424	P	C	A	ATGACGTGGCAGACCTCCCAAAGAGTAGCTGT			
5424	T	T	A	GTAAACAGCTACTCTTTGGGAATACTTGGCTCCATTGAATGTGTGGTAGGGTATGATTCCAG			
5424	T	C	A	GTAAACAGCTACTCTTTGGGAGTACTTGGCTCCATTGAATGTGTGGTAGGGTATGATTCCAG			
5424	IS	[TC]		CAGAAAGAGAAGGTAGTTTCCTGGAATCATACCCTACCACACATTCAATGGAGCCAAGTA[TC]TCCCAAAGAGTAGCTGTTTACTGCTGGTCTCTTACCTTGCTGG CTTTCATCATTCTTTCC	ctg15064	7	
5439	I		A	CCACCTCAGCCCACCCCTGGTGAT			
5439	P	A	A	CGCGCCGAGGAATCTCCCAGAACCCC			
5439	P	C	A	ATGACGTGGCAGACCATCTCCCAGAACCCC			
5439	T	A	A	GCCTGGGGTTCTGGGAGATTTCACCAGGGGTGGGCTGAGGTGGGG			
5439	T	C	A	GCCTGGGGTTCTGGGAGATGTCACCAGGGGTGGGCTGAGGTGGGG			
5439	IS	[AC]		CAGGGATAGGGCCTCTGCCAGAGAGGAGGCTCCCTCCCCACCTCAGCCCACCCCTGGTGA[AC]ATCTCCCAGAACCCCAGGCCCTAAGCTTCCCTCAGGCCAGC CCAGTCACCTTGTGTCTGA	ctg18433	19	
5442	I		A	CAGAAAACATTTAATCAAATGGTAAAAGAGGTAGCAAAAAACCTAGTTAAATT			
5442	P	A	A	CGCGCCGAGGAAGGTGGCAAATCTATCTATC			
5442	P	G	A	ATGACGTGGCAGACGAGGTGGCAAATCTATCTATC			
5442	T	A	A	GCCTGATAGATAGATTTGCCACCTTATTTAACTAGGTTTTTTGCTACCTCTTTTACCATTTGATTAAATGTTTTCTGTC			
5442	T	G	A	GCCTGATAGATAGATTTGCCACCTCATTTAACTAGGTTTTTTGCTACCTCTTTTACCATTTGATTAAATGTTTTCTGTC			
5442	IS	[AG]		AACACTGACAGAAAACATTTAATCAAATGGTAAAAGAGGTAGCAAAAAACCTAGTTAAAT[AG]AGGTGGCAAATCTATCTATCAGGCACCTCTCACTCTTTCCTTTAA AGCCATAGAAAAGTA	ctg19247	7	
5445	I		A	GGCACGCCTCCCAGCCTGGAC			
5445	P	T	A	CGCGCCGAGGTGACTGTGACGCCG			
5445	P	A	A	ATGACGTGGCAGACAGACTGTGACGCCG			
5445	T	T	A	TTACCGGCGTCACAGTCATCCAGGCTGGGAGGCGTGCCCT			
5445	T	A	A	TTACCGGCGTCACAGTCTTCCAGGCTGGGAGGCGTGCCCT			
5445	IS	[TA]		CCTACAGTCCATGGAAAGCCTGTATGGACCGGGCAGTGAGGGCACGCCTCCCAGCCTGGA[TA]GACTGTGACGCCGGTAAGCCCCCACCCAGCGGCAGGCAGG CATTTGAGGGGTGGGCCATT	ctg_na	NA	
5452	I		S	GGACCCACATACATGAGGGTCTCTTAGGTGCAA			
5452	P	A	S	CGCGCCGAGGTGTCCTCTTGTTGCTGA			
5452	P	G	S	ATGACGTGGCAGACCGTCCTCTTGTTGCTG			
5452	T	A	S	AGACTCAGCAACAAGAGGACATGCACCTAAGAGACCCTCATGTATGTGGGTCCCA			
5452	T	G	S	AGACTCAGCAACAAGAGGACGTGCACCTAAGAGACCCTCATGTATGTGGGTCCCA			
5452	IS	[AG]		GGCATTTCCCAGGCATGGATAAGCCCTAGTCCTCATCTGCAGACTCAGCAACAAGAGGAC[AG]TGCACCTAAGAGACCCTCATGTATGTGGGTCCCACGGAGACA AAGTTCACGATTTTGGGG	ctg14947	16	IL4R
5453	I		A	CACCCTACTCCTCTACGCCCTACAAGGGAGT			
5453	P	G	A	ATGACGTGGCAGACGTGGGTACTATATGACATTTCTA			
5453	P	A	A	CGCGCCGAGGATGGGTACTATATGACATTTCTAG			
5453	T	G	A	AAGGCTAGAAATGTCATATAGTACCCACCTCCCTTGTAGGGCGTAGAGGAGTAGGGTGGG			
5453	T	A	A	AAGGCTAGAAATGTCATATAGTACCCATCTCCCTTGTAGGGCGTAGAGGAGTAGGGTGGG			
5453	IS	[GA]		GACCAAAATTTATCTCTCTCTCTGTTCCCACCCTACTCCTCTACGCCCTACAAGGGAG[GA]TGGGTACTATATGACATTTCTAGCCTTACCTTTGCAGTAGTAAG CTAAAACCAAAGGTTC			
5468	I		A	TCCACTGTGCAGAAAACAGGGTGAAGATTGCCT			
5468	P	G	A	ATGACGTGGCAGACGTGTGTGGCGCCT			
5468	P	C	A	CGCGCCGAGGCTGTGTGGCGCCT			
5468	T	G	A	TCAAAGGCGCCACACACGGCAATCTTCACCCTGTTTTCTGCACAGTGGAGA			
5468	T	C	A	TCAAAGGCGCCACACAGGGCAATCTTCACCCTGTTTTCTGCACAGTGGAGA			
5468	IS	[GC]		GCTGCTGGAGATGGAGGGCTTAGGAGTCTCCACTGTGCAGAAAACAGGGTGAAGATTGCC[GC]TGTGTGGCGCCTTTGATTCCTCCAAAGGCATTTTTCAATCAG AATTGGCATTTCCCACCT	ctg15842	19	
5470	I		A	GCCCCCCAACACCCAGGGATCATGA			
5470	P	C	A	ATGACGTGGCAGACCGGAATCACTCACAGTATAAG			
5470	P	T	A	CGCGCCGAGGTGGAATCACTCACAGTATAAG			
5470	T	C	A	TCACCTTATACTGTGAGTGATTCCGCATGATCCCTGGGTGTTGGGGGGCAG			
5470	T	T	A	TCACCTTATACTGTGAGTGATTCCACATGATCCCTGGGTGTTGGGGGGCAG			
5470	IS	[CT]		TGACAATTCTGTGTGTGTGAAGTAGAAATGACCCCTGCCCCCCAACACCCAGGGATCATG[CT]GGAATCACTCACAGTATAAGGTGACAGTGAAATATCCAGTTAC TCCTCCAGTCCCATCGC	ctg15842	19	
5472	I		A	GGAGGAGAGCAAAGCCCTGTTCCGGACA			
5472	P	C	A	ATGACGTGGCAGACCATCATCACCTACCCCT			
5472	P	T	A	CGCGCCGAGGTATCATCACCTACCCCTG			
5472	T	C	A	GAACCAGGGGTAGGTGATGATGGTCCGGAACAGGGCTTTGCTCTCCTCCAT			
5472	T	T	A	GAACCAGGGGTAGGTGATGATAGTCCGGAACAGGGCTTTGCTCTCCTCCAT			
5472	IS	[CT]		TTCCCGCTGCCTTCGCTCCCGCCAGAACCGGATGGAGGAGAGCAAAGCCCTGTTCCGGAC[CT]ATCATCACCTACCCCTGGTTCCAGAACTCCTCCGTCATCCTC TTCCTCAACAAGAAGGAC	ctg16564	19	
5477	I		S	CGGGGCGAGACTGCCAGCTTAGCA			
5477	P	A	S	CGCGCCGAGGTGGCCCTGTGTGTGY			
5477	P	G	S	ATGACGTGGCAGACCGGCCCTGTGTGTY			
5477	T	A	S	TCCCCACACACAGGGCCAGCTAAGCTGGCAGTCTCGCCCCGGG			
5477	T	G	S	TCCCCACACACAGGGCCGGCTAAGCTGGCAGTCTCGCCCCGGG			
5477	IS	[AG]		GCATGGCTACAGGAGGTGGTGCCAGGGTGAGAGAAAGCCCCAGTCCCCACACACAGGGCC[AG]GCTAAGCTGGCAGTCTCGCCCCGGGCAGGGGCAGCCCTC CTTGTCAAGACCTCTCCCCTT	ctg11	15	
5482	I		S	GCGTGTCTCCTGTTTTCCAGGAGGGAGGATT			
5482	P	G	S	ATGACGTGGCAGACCGGTGCATCCAGAAGAY			
5482	P	T	S	CGCGCCGAGGAGGTGCATCCAGAAGAAY			
5482	T	G	S	GATTTTCTTCTGGATGCACCGATCCTCCCTCCTGGAAAACAGGAGACACGCGG			
5482	T	T	S	GATTTTCTTCTGGATGCACCTATCCTCCCTCCTGGAAAACAGGAGACACGCGG			
5482	IS	[GT]		AGGCGCTGTATTTGCCAGGCTCCTCCGTCTTCCGCATCAGGATTTTCTTCTGGATGCACC[GT]ATCCTCCCTCCTGGAAAACAGGAGACACGCGGGCAGCGGCTC CCAGGACACCCATGGCCC	MULTIPLE	MULTIPLE	
5484	I		A	TGCCTTTTTGTAATTTTGCTAGAACTAGCTTTCCAAATCTGGGATGTATT			
5484	P	A	A	CGCGCCGAGGATTATAAACTTACCAAAGCTTGTCY			
5484	P	G	A	ATGACGTGGCAGACGTTATAAACTTACCAAAGCTTGTY			



5484	T	A	A	TTAAGACAAGCTTTGGTAAGTTTATAATATACATCCCAGATTTGGAAAGCTAGTTCTAGCAAAATTACAAAAAGGCAAA		
5484	T	G	A	TTAAGACAAGCTTTGGTAAGTTTATAACATACATCCCAGATTTGGAAAGCTAGTTCTAGCAAAATTACAAAAAGGCAAA		
5484	IS	[AG]		CTATTTTGGTTTGCCTTTTTGTAATTTTGCTAGAACTAGCTTTCCAAATCTGGGATGTATAGTTATAAACTTACCAAAGCTTGTCTTAAGTGTGAATATAAAAGTGG CTTTCTGGTTTGAAT	ctg15422	X
5508	I		S	GGCAGAGTTAAAGAGCAAAAGCTTGTGCCTTTGTTTCTT		
5508	P	C	S	ATGACGTGGCAGACGGTTTCTGATGTACAAGCCY		
5508	P	T	S	CGCGCCGAGGAGTTTCTGATGTACAAGCCY		
5508	T	C	S	CAGGGGCTTGTACATCAGAAACCAGAAACAAAGGCACAAGCTTTTGCTCTTTAACTCTGCCTA		
5508	T	T	S	CAGGGGCTTGTACATCAGAAACTAGAAACAAAGGCACAAGCTTTTGCTCTTTAACTCTGCCTA		
5508	IS	[CT]		GAAGACATTGTCAGTATTTCACAGGTTCAACAGAGCCCCAGGGGCTTGTACATCAGAAAC[CT]AGAAACAAAGGCACAAGCTTTTGCTCTTTAACTCTGCCTAGCTA TAGCACCTAGCATATT	ctg25099	7
5537	I		S	GGGCTCCAGTGCTGCCTACTGCTTCAGC		
5537	P	T	S	CGCGCCGAGGAAGTGCTCCCTGTCCY		
5537	P	A	S	ATGACGTGGCAGACTAGTGCTCCCTGTCCTY		
5537	T	T	S	GGCCAGGACAGGGAGCACTTCTGAAGCAGTAGGCAGCACTGGAGCCCAG		
5537	T	A	S	GGCCAGGACAGGGAGCACTACTGAAGCAGTAGGCAGCACTGGAGCCCAG		
5537	IS	[TA]		GGGCTGGGTTGGACTAAGGGGAGACCCTCTGGGACACCCTGGGCCAGGACAGGGAGCACT[TA]CTGAAGCAGTAGGCAGCACTGGAGCCCAGATTTCAGCTTT CTGTTCTTTGCCATCATATT	ctg15665	20
5546	I		A	CATCACATACCTACAAACACTCAAGTACAATTACTTGAATGTAAAAGTAAT		
5546	P	G	A	ATGACGTGGCAGACGAGAAAATTTAGCGAGCTTTTY		
5546	P	A	A	CGCGCCGAGGAAGAAAATTTAGCGAGCTTTTTY		
5546	T	G	A	ATTTAAAAAGCTCGCTAAATTTTCTCTTACTTTTACATTCAAGTAATTGTACTTGAGTGTTTGTAGGTATGTGATGAA		
5546	T	A	A	ATTTAAAAAGCTCGCTAAATTTTCTTTTACTTTTACATTCAAGTAATTGTACTTGAGTGTTTGTAGGTATGTGATGAA		
5546	IS	[GA]		AATAGATATTCATCACATACCTACAAACACTCAAGTACAATTACTTGAATGTAAAAGTAA[GA]AGAAAATTTAGCGAGCTTTTTAAATATGTGGGACTAAGATCTGTG AAAGTATCTTTAAAT	ctg17103	4
5549	I		A	TCTTCCTTCACCACCCTGCCAAGCGACT		
5549	P	A	A	CGCGCCGAGGAAGGTAGAGGTCAGTGAGY		
5549	P	G	A	ATGACGTGGCAGACGAGGTAGAGGTCAGTGAGY		
5549	T	A	A	CCAGCTCACTGACCTCTACCTTGTCGCTTGGCAGGGTGGTGAAGGAAGAAA		
5549	T	G	A	CCAGCTCACTGACCTCTACCTCGTCGCTTGGCAGGGTGGTGAAGGAAGAAA		
5549	IS	[AG]		AAGCAGGGGAGGCGGGCGTTGTCATCTGAAATTTCTTCCTTCACCACCCTGCCAAGCGAC[AG]AGGTAGAGGTCAGTGAGCTGGACCAACCATCCCCACCCCGA CCCCCATCAAACTTTCTCC	ctg3454	17
5559	I		A	CCTGCTCCCAGGGGAGATGGGGTT		
5559	P	G	A	ATGACGTGGCAGACGCACTCAGGCTACTGTY		
5559	P	A	A	CGCGCCGAGGACACTCAGGCTACTGTCY		
5559	T	G	A	CCCAGACAGTAGCCTGAGTGCACCCCATCTCCCCTGGGAGCAGGCA		
5559	T	A	A	CCCAGACAGTAGCCTGAGTGTACCCCATCTCCCCTGGGAGCAGGCA		
5559	IS	[GA]		TGGGCCTTGGGTGGCTGGAGAAGGGACTGAATGCATGCCTGCTCCCAGGGGAGATGGGGT[GA]CACTCAGGCTACTGTCTGGGGACTTGGGAGACCCTGTACC TGCCTAGGAATTGGGGGCAG	ctg17403	17
5612	I		A	AGACACTGTGACAGGTTCCCCAGTCTCTACCATAGA		
5612	P	C	A	ATGACGTGGCAGACCAGGGAGGCTGACGY		
5612	P	T	A	CGCGCCGAGGTAGGGAGGCTGACGY		
5612	T	C	A	GCAGCGTCAGCCTCCCTGCTATGGTAGAGACTGGGGAACCTGTCACAGTGTCTGG		
5612	T	T	A	GCAGCGTCAGCCTCCCTACTATGGTAGAGACTGGGGAACCTGTCACAGTGTCTGG		
5612	IS	[CT]		GCCCCAGGAGCCAGGCATCAGGCCCAGACACTGTGACAGGTTCCCCAGTCTCTACCATAG[CT]AGGGAGGCTGACGCTGCGCCCCTCGGGCATGTCCCCTCACC TCCTGCCTTCACACCTCCT	ctg22fin3	22
5625	I		A	GGGGTCATTTTTCCTGACTTTTTCCAGTTCAGTGGTCT		
5625	P	G	A	ATGACGTGGCAGACGTTTCAGCAAAGCATTTTATATGY		
5625	P	A	A	CGCGCCGAGGATTTCAGCAAAGCATTTTATATGY		
5625	T	G	A	CAAGCATATAAAATGCTTTGCTGAAACGACCACTGAACTGGAAAAAGTCAGGAAAAATGACCCCGA		
5625	T	A	A	CAAGCATATAAAATGCTTTGCTGAAATGACCACTGAACTGGAAAAAGTCAGGAAAAATGACCCCGA		
5625	IS	[GA]		TTATGAGTGTTCGCATGGAATTCGGGGTCATTTTTCCTGACTTTTTCCAGTTCAGTGGTC[GA]TTTCAGCAAAGCATTTTATATGCTTGTGATAGAAACTCATAAAAC TCAGTTTACTACTGT	ctg21fin2	21
5658	I		A	ACCTAGTGCACTGAACCACCAAGTGATTTCAGACCC		
5658	P	G	A	ATGACGTGGCAGACGAAAGGAATGCCTTGTAAACY		
5658	P	T	A	CGCGCCGAGGTAAAGGAATGCCTTGTAAACAY		
5658	T	G	A	CCTCTGTTTACAAGGCATTCCTTTCGGTCTGAAATCACTTGGTGGTTCAGTGCACTAGGTTT		
5658	T	T	A	CCTCTGTTTACAAGGCATTCCTTTAGGTCTGAAATCACTTGGTGGTTCAGTGCACTAGGTTT		
5658	IS	[GT]		ATCACACACCAAAGTTTAAAGAAAAACCTAGTGCACTGAACCACCAAGTGATTTCAGACC[GT]AAAGGAATGCCTTGTAAACAGAGGAAACTAACCTAACGATCACT GGTGTTCCTAACTCCC	ctg16537	20
5676	I		A	CCAGGGCATCAAGCTCTTCCCTGGCA		
5676	P	T	A	CGCGCCGAGGTGGCTGACCCTGCY		
5676	P	C	A	ATGACGTGGCAGACCGGCTGACCCTGCY		
5676	T	T	A	TGAGGCAGGGTCAGCCAGCCAGGGAAGAGCTTGATGCCCTGGTG		
5676	T	C	A	TGAGGCAGGGTCAGCCGGCCAGGGAAGAGCTTGATGCCCTGGTG		
5676	IS	[TC]		GGGAACTGTAGTTTCCCTAGTCCCCCATGCTCCCACCAGGGCATCAAGCTCTTCCCTGGC[TC]GGCTGACCCTGCCTCAGCCCTAGTCTCTCTGCTGACCTGCGG CCCCGGGAAGCGTGCGTC	ctg18037	7
5682	I		S	CCAGAGCCCACCCCCTGCAGAGAATGT		
5682	P	T	S	CGCGCCGAGGAGCGCCGTCGGY		
5682	P	C	S	ATGACGTGGCAGACGGCGCCGTCGGY		
5682	T	T	S	CCATCCGACGGCGCTCATTCTCTGCAGGGGGTGGGCTCTGGGA		
5682	T	C	S	CCATCCGACGGCGCCCATTCTCTGCAGGGGGTGGGCTCTGGGA		
5682	IS	[TC]		CCAGCGGTGAGTACCCTGCCCTGCCCACCCCAGGGGTCCGGGGAATCCATCCGACGGCGC[TC]CATTCTCTGCAGGGGGTGGGCTCTGGGAGATTTAGGCCCA TTGTGGGACCCCCGTCCCCT	ctg_na	NA
5700	I		A	CACTCCCCTGTCCCTAGGCAACCACCT		
5700	P	G	A	ATGACGTGGCAGACGTTCTACTTTCTGTCTCTGTGY		
5700	P	A	A	CGCGCCGAGGATTCTACTTTCTGTCTCTGTGY		
5700	T	G	A	AAGTCACAGAGACAGAAAGTAGAACGGTGGTTGCCTAGGGACAGGGGAGTGGG		
5700	T	A	A	AAGTCACAGAGACAGAAAGTAGAATGGTGGTTGCCTAGGGACAGGGGAGTGGG		
5700	IS	[GA]		CTTTATACCCTTTAAACACAAATTCCCCATTCCCCACTCCCCTGTCCCTAGGCAACCACC[GA]TTCTACTTTCTGTCTCTGTGACTTCGACTACTTTAGCTACCTCAT GCAATTGGGGTCATC	ctg24	15
5702	I		S	AGAGGCCTGGGAAGGGGGTGTCTTTGT		
5702	P	T	S	CGCGCCGAGGAGAAACATGAGACTCACCTY		
5702	P	C	S	ATGACGTGGCAGACGGAAACATGAGACTCACCY		
5702	T	T	S	CTGGAGGTGAGTCTCATGTTTCTCAAAGACACCCCCTTCCCAGGCCTCTGC		
5702	T	C	S	CTGGAGGTGAGTCTCATGTTTCCCAAAGACACCCCCTTCCCAGGCCTCTGC		
5702	IS	[TC]		GGCGGCGGGCAGCAGGTGTCCGCCTAGCAGTCACTAGACTGGAGGTGAGTCTCATGTTTC[TC]CAAAGACACCCCCTTCCCAGGCCTCTGCCACCCGCCTGGTG TTGCCCACACTCTCCCCAA	ctg16279	17
5732	I		A	GGAATTACAGGTGTGAGCCACTTACATCTTAATATAATAATGTATGTCTTTAAATAT		
5732	P	C	A	ATGACGTGGCAGACCATCAAAATAATATAAATGCCTTGCY		
5732	P	A	A	CGCGCCGAGGAATCAAAATAATATAAATGCCTTGCY		
5732	T	C	A	ATATGCAAGGCATTTATATTATTTTGATGTATTTAAAGACATACATTATTATATTAAGATGTAAGTGGCTCACACCTGTAATTCCCA		
5732	T	A	A	ATATGCAAGGCATTTATATTATTTTGATTTATTTAAAGACATACATTATTATATTAAGATGTAAGTGGCTCACACCTGTAATTCCCA		
5732	IS	[CA]		GCTGGGAATTACAGGTGTGAGCCACTTACATCTTAATATAATAATGTATGTCTTTAAATA[CA]ATCAAAATAATATAAATGCCTTGCATATCATAAATTTCAATTAATG TATCCTTCACCCTC	ctg3235	11
5754	I		A	GCCCAGCTCAGTGCCACAAAGCTCAT		
5754	P	A	A	CGCGCCGAGGATAGGAGGGATGTTCCAGY		
5754	P	G	A	ATGACGTGGCAGACGTAGGAGGGATGTTCCAY		
5754	T	A	A	TCCACTGGAACATCCCTCCTATTGAGCTTTGTGGCACTGAGCTGGGCAT		

5754	T	G	A	TCCACTGGAACATCCCTCCTACTGAGCTTTGTGGCACTGAGCTGGGCAT			
5754	IS	[AG]		GTGGCAAAGAGAGGTCCAGAGTCCTGGCCCTTGATGCCCAGCTCAGTGCCCACAAAGCTCA[AG]TAGGAGGGATGTTCCAGTGGATGAGGGCCACCAGGAAGCAC AGGTCCAAGGCTGGTCCCA	ctg13206	14	
5758	I		A	GATTGTTGATTTACTGAAGTTACCTTATACTTGTTTTTTGTTTTTTTTGTTGTTGC			
5758	P	T	A	CGCGCCGAGGTTTTTTTGAGACAAGAGTTTTGCY			
5758	P	A	A	ATGACGTGGCAGACATTTTTTGAGACAAGAGTTTTGCY			
5758	T	T	A	AAGAGCAAAACTCTTGTCTCAAAAAACAACAACAAAAAAACAAAAAACAAGTATAAGGTAACTTCAGTAAATCAACAATCGA			
5758	T	A	A	AAGAGCAAAACTCTTGTCTCAAAAAATCAACAACAAAAAAACAAAAAACAAGTATAAGGTAACTTCAGTAAATCAACAATCGA			
5758	IS	[TA]		GAATCGATTGTTGATTTACTGAAGTTACCTTATACTTGTTTTTTGTTTTTTTTGTTGTTG[TA]TTTTTTGAGACAAGAGTTTTGCTCTTGTTGCCCAGGCTGGAGTACA GTGGCGCAGTCTTG			
5762	I		A	GCTCCTACAAATTTGCAGGACTTGATTTCACAGGCAGTAAAAAGT			
5762	P	G	A	ATGACGTGGCAGACGTCTATCAGGGTCTTGAAGAY			
5762	P	A	A	CGCGCCGAGGATCTATCAGGGTCTTGAAGAY			
5762	T	G	A	TCTCTCTTCAAGACCCTGATAGACCTTTTTACTGCCTGTGAAATCAAGTCCTGCAAATTTGTAGGAGCCT			
5762	T	A	A	TCTCTCTTCAAGACCCTGATAGATCTTTTTACTGCCTGTGAAATCAAGTCCTGCAAATTTGTAGGAGCCT			
5762	IS	[GA]		GTGGCAGATTATAGAGGCTCCTACAAATTTGCAGGACTTGATTTCACAGGCAGTAAAAAG[GA]TCTATCAGGGTCTTGAAGAGAGACATGAAAGCAGTGTCTTAGA AACGTTAGCCTAGCAGC	ctg15811	4	
5767	I		A	TGCCAGGCGGAGAGCAGGGCA			
5767	P	T	A	CGCGCCGAGGTGTGGTCTACTCCAACAY			
5767	P	C	A	ATGACGTGGCAGACCGTGGTCTACTCCAACAY			
5767	T	T	A	CTCGTGTTGGAGTAGACCACAGCCCTGCTCTCCGCCTGGCACA			
5767	T	C	A	CTCGTGTTGGAGTAGACCACGGCCCTGCTCTCCGCCTGGCACA			
5767	IS	[TC]		CAGCCTGCAGCTTAGCAATGCCGAAGCCATGCTCATCCTGTGCCAGGCGGAGAGCAGGGC[TC]GTGGTCTACTCCAACACGAGAGGTGAGGTGCCGCCCACCCA GGCCCAAGGAGGATGCCCA	ctg21fin5	21	
5771	I		A	AGAGACGCTGTATATAAAGTGCCACACGCTTGATGCTGT			
5771	P	A	A	CGCGCCGAGGAGTGGATAGTGGGCACY			
5771	P	G	A	ATGACGTGGCAGACGGTGGATAGTGGGCAY			
5771	T	A	A	TTGAGTGCCCACTATCCACTCAGCATCAAGCGTGGCACTTTATATACAGCGTCTCTGA			
5771	T	G	A	TTGAGTGCCCACTATCCACCCAGCATCAAGCGTGGCACTTTATATACAGCGTCTCTGA			
5771	IS	[AG]		ACCTTGAAGAGCTGTTATCAAGTCAGAGACGCTGTATATAAAGTGCCACGCTTGATGCTG[AG]GTGGATAGTGGGCACTCAAACAAAAGCAGTGATTAGTGTTAGT ACTTTCATTCTACAACC	ctg13321	5	
5774	I		A	GGCATATCTGTAATCAGGGTCTTTCTATCCTTTGCCTTTTCCT			
5774	P	A	A	CGCGCCGAGGAGTGTGGTTATCCTCATGAY			
5774	P	G	A	ATGACGTGGCAGACGGTGTGGTTATCCTCATGY			
5774	T	A	A	GGCATCATGAGGATAACCACACTGGAAAAGGCAAAGGATAGAAAGACCCTGATTACAGATATGCCCA			
5774	T	G	A	GGCATCATGAGGATAACCACACCGGAAAAGGCAAAGGATAGAAAGACCCTGATTACAGATATGCCCA			
5774	IS	[AG]		TATGCTCCATTAACCATGGGCATATCTGTAATCAGGGTCTTTCTATCCTTTGCCTTTTCC[AG]GTGTGGTTATCCTCATGATGCCTCAAAGTTTTTTACCAAGTCCTA AAAGCCAATCTTTCT	ctg17782	X	
5776	I		S	CGGCAGAAAACGCTAGAATGAGAAAAAAAAGAAAAGGAGAGGATTAAAACTT			
5776	P	T	S	CGCGCCGAGGATAACACCTACCCATGTTTCY			
5776	P	C	S	ATGACGTGGCAGACGTAACACCTACCCATGTTTY			
5776	T	T	S	GTATGAAACATGGGTAGGTGTTATAGTTTTAATCCTCTCCTTTTCTTTTTTTTCTCATTCTAGCGTTTTCTGCCGAT			
5776	T	C	S	GTATGAAACATGGGTAGGTGTTACAGTTTTAATCCTCTCCTTTTCTTTTTTTTCTCATTCTAGCGTTTTCTGCCGAT			
5776	IS	[TC]		CTTTTTCATCTTTCCCTCCAGAAGTAAAAATAGCACAGTATGAAACATGGGTAGGTGTTA[TC]AGTTTTAATCCTCTCCTTTTCTTTTTTTTCTCATTCTAGCGTTTTC TGCCGATCTTTCTA	ctg17490	X	
5784	I		A	TGCCAGAGGCTGCCCGAAGTGCTTAAT			
5784	P	G	A	ATGACGTGGCAGACGTGTTATTATCTCATTCGATCTTCY			
5784	P	A	A	CGCGCCGAGGATGTTATTATCTCATTCGATCTTCAY			
5784	T	G	A	ACTGTGAAGATCGAATGAGATAATAACACTTAAGCACTTCGGGCAGCCTCTGGCATG			
5784	T	A	A	ACTGTGAAGATCGAATGAGATAATAACATTTAAGCACTTCGGGCAGCCTCTGGCATG			
5784	IS	[GA]		TTTGGTGGTTAGCATTGACTTGGGGCCCATCACATGCCAGAGGCTGCCCGAAGTGCTTAA[GA]TGTTATTATCTCATTCGATCTTCACAGTCCTGATGGAAGTGAC TCTTCTTAGAGTCTTCC	ctg13206	14	
5791	I		A	CGGAAAGGTCTGAGGATATTGATTCAGTCCTGGGTTA			
5791	P	T	A	CGCGCCGAGGTTTCCCTAACTACAGGATAGGY			
5791	P	C	A	ATGACGTGGCAGACCTTCCCTAACTACAGGATAGGY			
5791	T	T	A	CCACCCTATCCTGTAGTTAGGGAAAAACCCAGGACTGAATCAATATCCTCAGACCTTTCCGTT			
5791	T	C	A	CCACCCTATCCTGTAGTTAGGGAAGAACCCAGGACTGAATCAATATCCTCAGACCTTTCCGTT			
5791	IS	[TC]		CTAAAGGTTCTGATCCCACTTGAACGGAAAGGTCTGAGGATATTGATTCAGTCCTGGGTT[TC]TCCCTAACTACAGGATAGGGTGGGGTAGAGAAAGGATATTTG GGGGAAATTTTACTTGG	ctg15907	6	
5805	I		S	GATGCCAGAAGGGTACTGTCTTCTCTTTCAGTTTAGAATCTCCT			
5805	P	G	S	CGCGCCGAGGCCTATGACTCCCAGTATATGA			
5805	P	C	S	ATGACGTGGCAGACGCTATGACTCCCAGTATATG			
5805	T	G	S	AGATTCATATACTGGGAGTCATAGGGGAGATTCTAAACTGAAAGAGAAGACAGTACCCTTCTGGCATCTC			
5805	T	C	S	AGATTCATATACTGGGAGTCATAGCGGAGATTCTAAACTGAAAGAGAAGACAGTACCCTTCTGGCATCTC			
5805	IS	[GC]		GGCATAAGTCATCACCACCACCACCGTTTTCATTATAGATTCATATACTGGGAGTCATAG[GC]GGAGATTCTAAACTGAAAGAGAAGACAGTACCCTTCTGGCATCT CCAGCACAGCATTTAC	ctg15907	6	
5806	I		S	CTCCGGGATAAGCTCCAGGTGCTCCAC			
5806	P	C	S	ATGACGTGGCAGACGGGTAGGCGCCTG			
5806	P	A	S	CGCGCCGAGGTGGTAGGCGCCTG			
5806	T	C	S	CCTCCAGGCGCCTACCCTGGAGCACCTGGAGCTTATCCCGGAGCA			
5806	T	A	S	CCTCCAGGCGCCTACCATGGAGCACCTGGAGCTTATCCCGGAGCA			
5806	IS	[CA]		CCTACCCCGGGCAGGCACCCCCAGGGGCTTATCCTGGACAGGCACCTCCAGGCGCCTACC[CA]TGGAGCACCTGGAGCTTATCCCGGAGCACCTGCACCTGGA GTCTACCCAGGGCCACCCAG	ctg17341	14	LGALS3
5854	I		A	CCACTTGGCCCACAATTTCTCCAACAGAAAAAATGTACAGAAA			
5854	P	C	A	ATGACGTGGCAGACCTTAATGAGTGCCCACAT			
5854	P	T	A	CGCGCCGAGGTTTAATGAGTGCCCACATC			
5854	T	C	A	GGGGGATGTGGGCACTCATTAAGTTCTGTACATTTTTTCTGTTGGAGAAATTGTGGGCCAAGTGGGT			
5854	T	T	A	GGGGGATGTGGGCACTCATTAAATTCTGTACATTTTTTCTGTTGGAGAAATTGTGGGCCAAGTGGGT			
5854	IS	[CT]		CTCAATGCTGAGACAGACCCACTTGGCCCACAATTTCTCCAACAGAAAAAATGTACAGAA[CT]TTAATGAGTGCCCACATCCCCCAGCCATTCAGGATGCTGTCCG ATAAGCCCACTTATTTC	ctg15907	6	
5857	I		A	TGAGCCACCACGCCCGGCCT			
5857	P	C	A	ATGACGTGGCAGACCGATAAACTTATTTTTTAATGAACTGT			
5857	P	A	A	CGCGCCGAGGAGATAAACTTATTTTTTAATGAACTGTTG			
5857	T	C	A	TTACCAACAGTTCATTAAAAAATAAGTTTATCGGGCCGGGCGTGGTGGCTCACG			
5857	T	A	A	TTACCAACAGTTCATTAAAAAATAAGTTTATCTGGCCGGGCGTGGTGGCTCACG			
5857	IS	[CA]		TCCACCCGCCTCGGCCTCCCAAAGTGCTGGGAACATAGGCGTGAGCCACCACGCCCGGCC[CA]GATAAACTTATTTTTTAATGAACTGTTGGTAAAGTTAATATGT TTTTTTCTTTCCTAAAA			
5862	I		S	CCTCCCCTGACTTCAGGACCAACGGAACC			
5862	P	T	S	CGCGCCGAGGAAGAGGCTGCAGGTT			
5862	P	A	S	ATGACGTGGCAGACTAGAGGCTGCAGGTTG			
5862	T	T	S	CTAGCAACCTGCAGCCTCTTGTTCCGTTGGTCCTGAAGTCAGGGGAGGGG			
5862	T	A	S	CTAGCAACCTGCAGCCTCTAGTTCCGTTGGTCCTGAAGTCAGGGGAGGGG			
5862	IS	[TA]		TACCCAGATGCCCAGAATGAGGTATCTGGGACCCTGACTGCCTAGCAACCTGCAGCCTCT[TA]GTTCCGTTGGTCCTGAAGTCAGGGGAGGGGCTGAGTCTGCA TGTGGAAGGGGGAAACTGA	ctg14391	11	
5925	I		A	CCACCCTGAGCAGCTCCCCTCCCA			
5925	P	C	A	ATGACGTGGCAGACCCCAACTCACAGGAATG			
5925	P	T	A	CGCGCCGAGGTCCAACTCACAGGAATG			
5925	T	C	A	CCTGCATTCCTGTGAGTTGGGGGGAGGGGAGCTGCTCAGGGTGGGC			
5925	T	T	A	CCTGCATTCCTGTGAGTTGGAGGGAGGGGAGCTGCTCAGGGTGGGC			

FIGURE 129B



				CAGGCCGTGCCCGCCCCAATCTGGGCACAGAGGCTGCCCACCCTGAGCAGCTCCCCTCCC[CT]CCAACTCACAGGAATGCAGGCACTCCACGATAGTGGTGGC			
5925	IS	[CT]		GTCGATGAAGTACCCCCCGC	ctg16400	17	
6010	I		S	ACCTGGATGAATCTACTGCAGTCCCACCACTTCT			
6010	P	G	S	CGCGCCGAGGCTAGCTGCGTGACCT			
6010	P	C	S	ATGACGTGGCAGACGTAGCTGCGTGACCT			
6010	T	G	S	CCCAAGGTCACGCAGCTAGGAAGTGGTGGGACTGCAGTAGATTCATCCAGGTCT			
6010	T	C	S	CCCAAGGTCACGCAGCTACGAAGTGGTGGGACTGCAGTAGATTCATCCAGGTCT			
				TGTGCATTTAACCTTATAGCCTCAGAGAGGTCAAGTGACTAGCCCAAGGTCACGCAGCTA[GC]GAAGTGGTGGGACTGCAGTAGATTCATCCAGGTCTGATGTGG			
6010	IS	[GC]		GATCCTTTTGTTTCCTGC	ctg17731	1	
6023	I		S	AGGTGGGACTGCCATTCACACCCCTA			
6023	P	A	S	CGCGCCGAGGTCCCATCCTGACTCAC			
6023	P	G	S	ATGACGTGGCAGACCCCCATCCTGACTCAC			
6023	T	A	S	GAAGGTGAGTCAGGATGGGAAGGGGTGTGAATGGCAGTCCCACCTCC			
6023	T	G	S	GAAGGTGAGTCAGGATGGGGAGGGGTGTGAATGGCAGTCCCACCTCC			
				AGGAGGTCCAGCAAAGCAGGTTCCAGATGCCACCCTTGGAGGAAGGTGAGTCAGGATGGG[AG]AGGGGTGTGAATGGCAGTCCCACCTCCAGAGAGTAGCTCA			
6023	IS	[AG]		GCTCAGCTTGAGACCTTCCA	ctg15944	11	
6051	I		S	GCACTACGGGCCTGGCCAGCTTA			
6051	P	G	S	ATGACGTGGCAGACCAGCAACATGAGATCGT			
6051	P	A	S	CGCGCCGAGGTAGCAACATGAGATCGTG			
6051	T	G	S	TGAGCACGATCTCATGTTGCTGAAGCTGGCCAGGCCCGTAGTGCTG			
6051	T	A	S	TGAGCACGATCTCATGTTGCTAAAGCTGGCCAGGCCCGTAGTGCTG			
				CCACCAGGGCTCAGGCCCCATCCTGCCAAGGCGAACGGATGAGCACGATCTCATGTTGCT[GA]AAGCTGGCCAGGCCCGTAGTGCTGGGGCCCCGCGTCCGGG			
6051	IS	[GA]		CCCTGCAGCTTCCCTACCGC	ctg5212	19	KLK10
6053	I		S	CTGCCTTTTTTTCTCTGACTCACTTCAGAGACCCCAA			
6053	P	G	S	ATGACGTGGCAGACCGTGAGGAGCAGCC			
6053	P	A	S	CGCGCCGAGGTGTGAGGAGCAGCC			
6053	T	G	S	GCAAGGCTGCTCCTCACGTGGGGTCTCTGAAGTGAGTCAGAGAAAAAAAGGCAGAT			
6053	T	A	S	GCAAGGCTGCTCCTCACATGGGGTCTCTGAAGTGAGTCAGAGAAAAAAAGGCAGAT			
				TAAATAAATGAAGTCATTGCCCTGACCCACGCTTTCTTCCTGAGCAAGGCTGCTCCTCAC[GA]TGGGGTCTCTGAAGTGAGTCAGAGAAAAAAAGGCAGATTATGT			
6053	IS	[GA]		TTTCAGAAATGGAAGCT			
6059	I		S	GCCAGCATCTTGGGGACGGTGGTGT			
6059	P	T	S	CGCGCCGAGGAAGGAAGCAGATGTCC			
6059	P	C	S	ATGACGTGGCAGACGAGGAGAAGCAGATGTC			
6059	T	T	S	TTGTGGACATCTGCTTCTCCTTCACCACCGTCCCCAAGATGCTGGCCA			
6059	T	C	S	TTGTGGACATCTGCTTCTCCTCCACCACCGTCCCCAAGATGCTGGCCA			
				TGCACACCCCCATGTACTTCTTCCTCAGCAACCTGTCTTTTGTGGACATCTGCTTCTCCT[TC]CACCACCGTCCCCAAGATGCTGGCCAATCACATACTCGAGACT			
6059	IS	[TC]		CAGACCATCTCCTTCTG	ctg15053	16	OR1F8
6066	I		S	TGGAGAGCTTGGACTATATTTTCTGGGCAATGATGGCT			
6066	P	T	S	CGCGCCGAGGACCAACGTGATAAAGCC			
6066	P	C	S	ATGACGTGGCAGACGCCAACGTGATAAAGCC			
6066	T	T	S	AGCAGGCTTTATCACGTTGGTGCCATCATTGCCCAGAAAATATAGTCCAAGCTCTCCAGA			
6066	T	C	S	AGCAGGCTTTATCACGTTGGCGCCATCATTGCCCAGAAAATATAGTCCAAGCTCTCCAGA			
				GTTAAGCAACTCTCCTCACTGCTGTTGAGTCTATCCAGAAAGCAGGCTTTATCACGTTGG[TC]GCCATCATTGCCCAGAAAATATAGTCCAAGCTCTCCAGATGGA			
6066	IS	[TC]		GGGACTTACATGTTCTC	ctg12387	2	
6083	I		A	AGACTGCTTCCCATCCTGCTACTGTCATCTCTTTGATACA			
6083	P	T	A	CGCGCCGAGGTTTCTCTTGTCTTAGAAGTTTTCT			
6083	P	C	A	ATGACGTGGCAGACCTTCTCTTGTCTTAGAAGTTTTC			
6063	T	T	A	TCTTAGAAAACTTCTAAGACAAGAGAAAGTATCAAAGAGATGACAGTAGCAGGATGGGAAGCAGTCTCT			
6083	T	C	A	TCTTAGAAAACTTCTAAGACAAGAGAAGGTATCAAAGAGATGACAGTAGCAGGATGGGAAGCAGTCTCT			
				ACAGAGTGATGCCCCTCCAAGAGACTGCTTCCCATCCTGCTACTGTCATCTCTTTGATAC[TC]TTCTCTTGTCTTAGAAGTTTTCTAAGATGAGCAGCATGTTTATC			
6083	IS	[TC]		AAACAGAATTTTGTAG	ctg15907	6	
6091	I		S	AGCCAAAAGCATGAATTGGGAAATGAAGAATTAAAAAGTCATAT			
6091	P	C	S	ATGACGTGGCAGACGTTCAGATACCCAGTGTCT			
6091	P	T	S	CGCGCCGAGGATTCAGATACCCAGTGTCT			
6091	T	C	S	TATTAGACACTGGGTATCTGAATTATGACTTTTTAATTCTTCATTTCCCAATTCATGCTTTTGGCTAT			
6091	T	T	S	TATTAGACACTGGGTATCTGAATTATGACTTTTTAATTCTTCATTTCCCAATTCATGCTTTTGGCTAT			
				AGATTTTACACTGAGCAAACCACAAACATCATCTACTTTATTAGACACTGGGTATCTGAA[CT]TATGACTTTTTAATTCTTCATTTCCCAATTCATGCTTTTGGCTATT			
6091	IS	[CT]		TCACTGTCTGTGAA	ctg13446	1	
6098	I		S	TGCTCTTCCAACCACAGAAAAACGGCCAGAAACT			
6098	P	G	S	CGCGCCGAGGCACCTCAACAGGAGTAC			
6098	P	C	S	ATGACGTGGCAGACGACCTCAACAGGAGTACG			
6098	T	G	S	TGGACGTACTCCTGTTGAGGTGGTTTCTGGCCGTTTTTCTGTGGTTGGAAGAGCACT			
6098	T	C	S	TGGACGTACTCCTGTTGAGGTCGTTTCTGGCCGTTTTTCTGTGGTTGGAAGAGCACT			
				CCCTAACTCAGATTCCAGCCCTGACGCTGATAGCCCCGTTGGACGTACTCCTGTTGAGGT[GC]GTTTCTGGCCGTTTTTCTGTGGTTGGAAGAGCACTGTCTGTC			
6098	IS	[GC]		GTTCTCGCTCTGGAAACT	ctg22fin3	22	
6131	I		S	ACTCCAGCTTCCTGGTGCGTTTTCTAGCTACAT			
6131	P	G	S	ATGACGTGGCAGACCCTGTGCCCCACTAG			
6131	P	T	S	CGCGCCGAGGACTGTGCCCCACTAG			
6131	T	G	S	GAGCCTAGTGGGGCACAGGTGTAGCTAGAAAACGCACCAGGAAGCTGGAGTGT			
6131	T	T	S	GAGCCTAGTGGGGCACAGTTGTAGCTAGAAAACGCACCAGGAAGCTGGAGTGT			
				TAGATGGCTTGATAGGGAAGCAGGGCATAAGGAAGGCTAGAAGAGCCTAGTGGGGCACAG[GT]TGTAGCTAGAAAACGCACCAGGAAGCTGGAGTGTGGGTGCC			
6131	IS	[GT]		AGATAATATAATGATGGGT	ctg15478	1	
6145	I		S	AGAGTTTTGAGGTAAGAACAGTGGGCTGTTCCAGTATCTT			
6145	P	G	S	ATGACGTGGCAGACCAGATTGCTTAGTCACGTT			
6145	P	T	S	CGCGCCGAGGAAGATTGCTTAGTCACGTTAT			
6145	T	G	S	TCCAATAACGTGACTAAGCAATCTGAGATACTGGAACAGCCCACTGTTCTTACCTCAAAACTCTTG			
6145	T	T	S	TCCAATAACGTGACTAAGCAATCTTAGATACTGGAACAGCCCACTGTTCTTACCTCAAAACTCTTG			
				TCCTTTTAGGCACTGGTGGCTTACATTAAGATTCAGTCCAATAACGTGACTAAGCAATCT[GT]AGATACTGGAACAGCCCACTGTTCTTACCTCAAAACTCTTGCGT			
6145	IS	[GT]		AAAGCATCAACACCAA	ctg3461	17	
6146	I		A	GGGGTCAGCTGGGGTGATGGGGACT			
6146	P	A	A	CGCGCCGAGGATCAGTGGAGGATAGTGTG			
6146	P	G	A	ATGACGTGGCAGACGTCAGTGGAGGATAGTGT			
6146	T	A	A	TTCCCACACTATCCTCCACTGATGTCCCCATCACCCCAGCTGACCCCAA			
6146	T	G	A	TTCCCACACTATCCTCCACTGACGTCCCCATCACCCCAGCTGACCCCAA ,			
				AATATTGGGAGTTGGAGGGAATGGTGCAGTGTTGTTGGGGTCAGCTGGGGTGATGGGGAC[AG]TCAGTGGAGGATAGTGTGGGAATCCCTGAAGGGTAAGATC			
6146	IS	[AG]		GTCTTGGGGATCTTGCCGCA	ctg16031	17	
6170	I		A	GTCTCTCGGAGATGTCTCGGCCCACCT			
6170	P	G	A	ATGACGTGGCAGACGTATCAGAGACCAGCCT			
6170	P	A	A	CGCGCCGAGGATATCAGAGACCAGCCTT			
6170	T	G	A	AAGAAAGGCTGGTCTCTGATACGGTGGGCCGAGACATCTCCGAGAGACTC			
6170	T	A	A	AAGAAAGGCTGGTCTCTGATATGGTGGGCCGAGACATCTCCGAGAGACTC			
				AGGATGACTGGGCTAGGATGGGGGCTTTGCATGAGTCTCTCGGAGATGTCTCGGCCCACC[GA]TATCAGAGACCAGCCTTTCTTCACCACCACTGTCAAAGTCCC			
6170	IS	[GA]		TAAAATCTCATGGCCAGA	MULTIPLE	MULTIPLE	
6178	I		S	ATCTATTTCAGAATAAAGCAGGACAATAAATAAATATGGATAAATACATAAATAAATAGCT			
6178	P	C	S	ATGACGTGGCAGACGGATGAGTAGTAATGGAATAAACT			
6178	P	T	S	CGCGCCGAGGAGATGAGTAGTAATGGAATAAACTAA			
6178	T	C	S	GGGATTAGTTTATTCCATTACTACTCATCCGCTATTTATTTATGTATTTATCCATATTTATTTATTGTCCTGCTTTATTCTGAAATAGAT			
6178	T	T	S	GGGATTAGTTTATTCCATTACTACTCATCTGCTATTTATTTATGTATTTATCCATATTTATTTATTGTCCTGCTTTATTCTGAAATAGAT			

FIGURE 129B

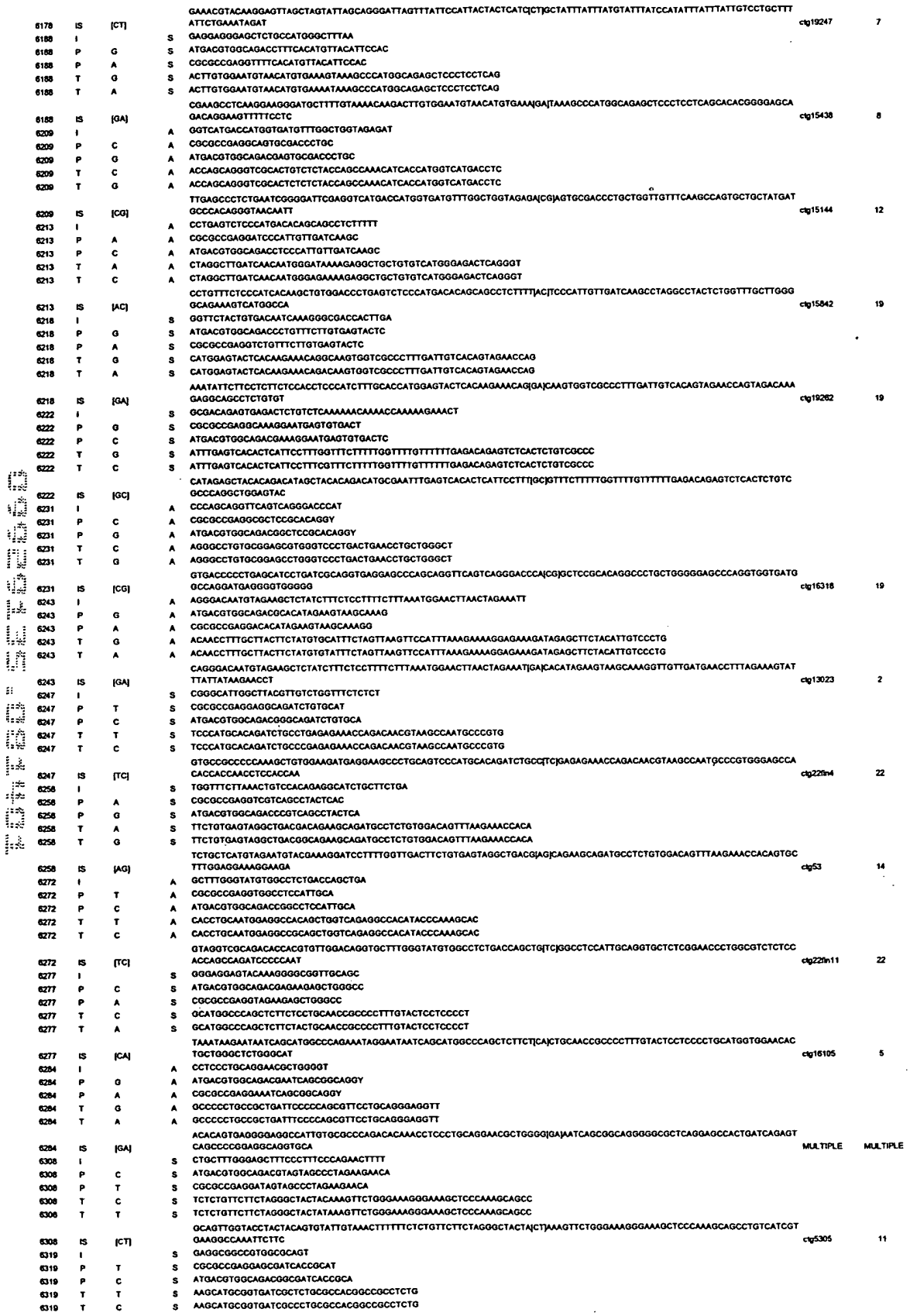
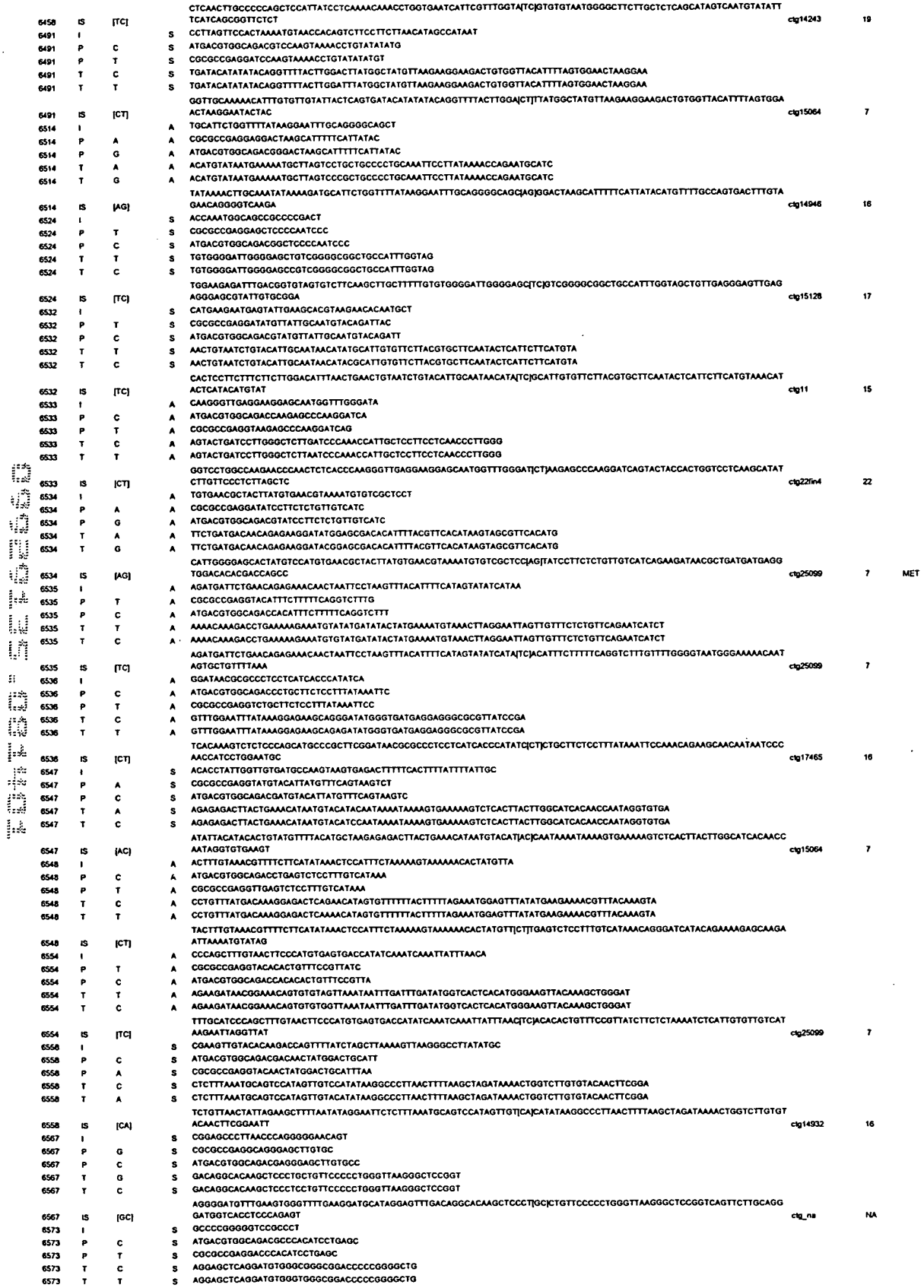


FIGURE 129B

				GACTGCCCAAGCCCACCGCAGGGCTGAGACCCTCATCTTCAGCAAGCATGCGGTGATCGC[TC]CTGCGCCACGGCCGCCTCTGCTTCATGCTACGTGTGGGTGA			
6319	IS	[TC]		CCTCCGCAAGAGCATGATC	ctg2846	11	KCNJ11
6321	I		S	CCTAGCTCCTGTTGTCTGGGGAAACCCAGA			
6321	P	G	S	ATGACGTGGCAGACCGGTCACATCCTCTGC			
6321	P	A	S	CGCGCCGAGGTGGTCACATCCTCTGC			
6321	T	G	S	ATTTGCAGAGGATGTGACCGCTGGGTTTCCCCAGACAACAGGAGCTAGGGG			
6321	T	A	S	ATTTGCAGAGGATGTGACCACTGGGTTTCCCCAGACAACAGGAGCTAGGGG			
				GTGCACTTGCTGATTCCATGATCTCTTCCTGGAGTTCACCTATTTGCAGAGGATGTGACC[GA]CTGGGTTTCCCCAGACAACAGGAGCTAGGGGCATCCTGGGAG			
6321	IS	[GA]		GCTAGGCCCAGCCGTGAA	ctg2846	11	
6331	I		A	GCCACCCCAGCTCACCCCTACCACA			
6331	P	T	A	CGCGCCGAGGTGAGTGACCCAGAGGAY			
6331	P	C	A	ATGACGTGGCAGACCGAGTGACCCAGAGG			
6331	T	T	A	ACTCTCCTCTGGGTCACTCAGTGGTAGGGGTGAGCTGGGGTGGCCT			
6331	T	C	A	ACTCTCCTCTGGGTCACTCGGTGGTAGGGGTGAGCTGGGGTGGCCT			
				GAGGAGAGTCTCATTCCTCTCCTAGCGGTCAGTGAGGCCACCCCAGCTCACCCCTACCAC[TC]GAGTGACCCAGAGGAGAGTCTCATTCCTCTCCTAGCTGTCAG			
6331	IS	[TC]		TGAGGTCACCCCAGCTCA	ctg18466	16	
6333	I		S	CGACTCAGGGTGTCCTGCGAAGCCTGA			
6333	P	A	S	CGCGCCGAGGTTGGGATGGCTCACT			
6333	P	G	S	ATGACGTGGCAGACCTGGGATGGCTCACT			
6333	T	A	S	GGACAGTGAGCCATCCCAACAGGCTTCGCAGGACACCCTGAGTCGGA			
6333	T	G	S	GGACAGTGAGCCATCCCAGCAGGCTTCGCAGGACACCCTGAGTCGGA			
				CATGTCCCGCTCTAACACGGGCACGGGCACTGTCTGGGAGCAGGACAGTGAGCCATCCCA[AG]CAGGCTTCGCAGGACACCCTGAGTCGGACTGATGAGGAAG			
6333	IS	[AG]		ATGAGGAAAGTAGGTCATTC	ctg12387	2	
6346	I		S	CCGTATCCTCGGATTTTGCACCACTCAGTGCT			
6346	P	T	S	CGCGCCGAGGATCCATTCCTGGGCAY			
6346	P	G	S	ATGACGTGGCAGACCTCCATTCCTGGGCAY			
6346	T	T	S	CAGCTGCCCAGGAATGGATGCACTGAGTGGTGCAAAATCCGAGGATACGGGA			
6346	T	G	S	CAGCTGCCCAGGAATGGAGGCACTGAGTGGTGCAAAATCCGAGGATACGGGA			
				GATCTACAGTGGTCAGTTGCCTGTGCTGGGTACTACTGAGGACAGCTGCCCAGGAATGGA[TG]GCACTGAGTGGTGCAAAATCCGAGGATACGGGACACCAGGG			
6346	IS	[TG]		GAATCCACCTTTCGGAGCC	ctg16820	16	
6376	I		S	TGGGTCCTTCCTAACTTCACACCCATCAT			
6376	P	T	S	CGCGCCGAGGAAATCTCACAGATTATTTTATTGAATCY			
6376	P	C	S	ATGACGTGGCAGACGAATCTCACAGATTATTTTATTGAATCY			
6376	T	T	S	TGGTGATTCAATAAAATAATCTGTGAGATTTTGATGGGTGTGAAGTTAGGAAGGACCCACA			
6376	T	C	S	TGGTGATTCAATAAAATAATCTGTGAGATTCTGATGGGTGTGAAGTTAGGAAGGACCCACA			
				AAATGTATCTGGTTCTGTGTATTTGTGAGGTGGTGATTCAATAAAATAATCTGTGAGATT[TC]TGATGGGTGTGAAGTTAGGAAGGACCCACAAATATCACTGGAAA			
6376	IS	[TC]		AACAAATGTCTGTCCT	ctg15907	6	
6380	I		S	CTCTCCACACGCCTTCTTCCAGGTAGCCT			
6380	P	T	S	CGCGCCGAGGATGAGTCCCTGGTGGY			
6380	P	C	S	ATGACGTGGCAGACGTGAGTCCCTGGTGGY			
6380	T	T	S	ATGCCCACCAGGGACTCATGGCTACCTGGAAGAAGGCGTGTGGAGAGAT			
6380	T	C	S	ATGCCCACCAGGGACTCACGGCTACCTGGAAGAAGGCGTGTGGAGAGAT			
				TCACGTCCTGATGGTGCGTCAGGCCTCCCTCAACATGTCCCCATGCCCACCAGGGACTCA[TC]GGCTACCTGGAAGAAGGCGTGTGGAGAGATCCGGAAGGTCA			
6380	IS	[TC]		GCCCTAGCAGGTCCTCGTG	ctg22fn3	22	
6389	I		S	TGTCCTGGAGGCGCCAACGCCT			
6389	P	C	S	ATGACGTGGCAGACGCCTTGTTTTCTCCACCY			
6389	P	T	S	CGCGCCGAGGACCTTGTTTTCTCCACCTY			
6389	T	C	S	TCAGAGGTGGAGAAAACAAGGCGGCGTTGGCGCCTCCAGGACAGA			
6389	T	T	S	TCAGAGGTGGAGAAAACAAGGTGGCGTTGGCGCCTCCAGGACAGA			
				TGCCTCCTCCTCTCGTCCCAGCCCCAACTCGGAGTGGAGTCAGAGGTGGAGAAAACAAGG[CT]GGCGTTGGCGCCTCCAGGACAGAGCCTTAGTCGGCTGCTGT			
6389	IS	[CT]		GTGCAGGCCAAGTGGCACC	MULTIPLE	3	
6399	I		S	ACCACCCCACTGGCCCTCTTCCAT			
6399	P	C	S	ATGACGTGGCAGACGCCCCCGCATCCY			
6399	P	T	S	CGCGCCGAGGACCCCCGCATCCY			
6399	T	C	S	AGAGGGATGCGGGGGCTGGAAGAGGGCCAGTGGGGTGGTGA			
6399	T	T	S	AGAGGGATGCGGGGGTTGGAAGAGGGCCAGTGGGGTGGTGA			
				AGCCAGACTTCTGAACATACTGTGCATAGTGTCTAAGGGAAGGGCAGAGGGATGCGGGGG[CT]TGGAAGAGGGCCAGTGGGGTGGTGAGGAAGGAAAGAAAAA			
6399	IS	[CT]		GGAAAGTATATGGATACTTT	ctg14932	16	
6405	I		A	CCGCCTTCTTGCCAAGAAATGGTGTCAAGATTCTAAAATCC			
6405	P	T	A	CGCGCCGAGGTAAGTTAAAACTGAGATATTCTGGGY			
6405	P	A	A	ATGACGTGGCAGACAAAGTTAAAACTGAGATATTCTGGY			
6405	T	T	A	TACTCCCAGAATATCTCAGTTTTAACTTAGATTTTAGAATCTTGACACCATTTCTTGGCAAGAAGGCGGGA			
6405	T	A	A	TACTCCCAGAATATCTCAGTTTTAACTTTGATTTTAGAATCTTGACACCATTTCTTGGCAAGAAGGCGGGA			
				GCCGTCAATGGCCTGCTTTCCCGCCTTCTTGCCAAGAAATGGTGTCAAGATTCTAAAATC[TA]AAGTTAAAACTGAGATATTCTGGGAGTAAATTCCTATAAAAAAC			
6405	IS	[TA]		GATCCTCAACTTAGCT	ctg13103	9	
6406	I		S	ACCAAACACAACTGAACCAAAAAGCCAGCTAAACCCT			
6406	P	T	S	CGCGCCGAGGAACAACATCTGAAGTTGAAACY			
6406	P	C	S	ATGACGTGGCAGACGACAACATCTGAAGTTGAAACY			
6406	T	T	S	AACTGTTTCAACTTCAGATGTTGTTGGGTTTAGCTGGCTTTTTGGTTCAGTTGTGTTTGGTTC			
6406	T	C	S	AACTGTTTCAACTTCAGATGTTGTCGGGTTTAGCTGGCTTTTTGGTTCAGTTGTGTTTGGTTC			
				GTTCTTTCTCAGTGGTAATAGATATAAACCAGGGACAACTGTTTCAACTTCAGATGTTGT[TC]GGGTTTAGCTGGCTTTTTGGTTCAGTTGTGTTTGGTTCTCGATG			
6406	IS	[TC]		TGCCTTCTTAGGAGCC	ctg15665	20	
6424	I		S	GCAGCTCTGTCCTGAAATAGGTGTCACACATCCATA			
6424	P	G	S	ATGACGTGGCAGACCCCAATAAGCCAGCGY			
6424	P	A	S	CGCGCCGAGGTCCAATAAGCCAGCGGY			
6424	T	G	S	GATCCCGCTGGCTTATTGGGATGGATGTGTGACACCTATTTCAGGACAGAGCTGCCA			
6424	T	A	S	GATCCCGCTGGCTTATTGGAATGGATGTGTGACACCTATTTCAGGACAGAGCTGCCA			
				CTTCCTAGCATGGCAGCCTCTCTATAGCATCTAGCCCAGGAGATCCCGCTGGCTTATTGG[GA]ATGGATGTGTGACACCTATTTCAGGACAGAGCTGCCAACAGG			
6424	IS	[GA]		ACAATGCATGGACATTCT	ctg13980	1	
6438	I		S	GGCACTGGGAACAAAAGGATGCACACGACATTT			
6438	P	T	S	CGCGCCGAGGATTGCTGCTTAGAAGGAATTY			
6438	P	C	S	ATGACGTGGCAGACGTTGCTGCTTAGAAGGAATY			
6438	*T	T	S	ACAAAATTCCTTCTAAGCAGCAATAATGTCGTGTGCATCCTTTTGTTCCCAGTGCCTT			
6438	T	C	S	ACAAAATTCCTTCTAAGCAGCAACAATGTCGTGTGCATCCTTTTGTTCCCAGTGCCTT			
				AGGAGGTGTTAATGTATCATTCAAAGGTACTTATGAGACAAAATTCCTTCTAAGCAGCAA[TC]AATGTCGTGTGCATCCTTTTGTTCCCAGTGCCTTGACAGGGTAT			
6438	IS	[TC]		GGGGGGACCTGCATGA	ctg19247	7	
6448	I		S	GTTCGAGGAATTCTGCCTCGGCCTTCCAT			
6448	P	T	S	CGCGCCGAGGATTAGCTGGGATTACAGATGY			
6448	P	C	S	ATGACGTGGCAGACGTTAGCTGGGATTACAGATGY			
6448	T	T	S	TCGGCATCTGTAATCCCAGCTAATTGGAAGGCCGAGGCAGAATTCCTCGAACCC			
6448	T	C	S	TCGGCATCTGTAATCCCAGCTAACTGGAAGGCCGAGGCAGAATTCCTCGAACCC			
				GCCTCTATTAAAAATATAAAGTTAGCCGGGTGTGTGGTCGGCATCTGTAATCCCAGCTAA[TC]TGGAAGGCCGAGGCAGAATTCCTCGAACCCAGGAGGCAGAGG			
6448	IS	[TC]		TAGAAGCAGTGAGCCAAG	ctg14946	16	
6458	I		S	TGACTATGCTGAGAGCAAGAAGCCCCATTACACACT			
6458	P	T	S	CGCGCCGAGGATACCAAACGAATGATTCACCY			
6458	P	C	S	ATGACGTGGCAGACGTACCAAACGAATGATTCACY			
6458	T	T	S	ACCTGGTGAATCATTCGTTTGGTATGTGTGTAATGGGGCTTCTTGCTCTCAGCATAGTCAAT			
6458	T	C	S	ACCTGGTGAATCATTCGTTTGGTACGTGTGTAATGGGGCTTCTTGCTCTCAGCATAGTCAAT			

FIGURE 129B



				CTCAACTTGCCCCCAGCTCCATTATCCTCAAAACAAACCTGGTGAATCATTCGTTTGGTA[TC]GTGTGTAATGGGGCTTCTTGCTCTCAGCATAGTCAATGTATATT			
6458	IS	[TC]		TCATCAGCGGTTCTCT	ctg14243	19	
6491	I		S	CCTTAGTTCCACTAAAATGTAACCACAGTCTTCCTTCTTAACATAGCCATAAT			
6491	P	C	S	ATGACGTGGCAGACGTCCAAGTAAAACCTGTATATATG			
6491	P	T	S	CGCGCCGAGGATCCAAGTAAAACCTGTATATATGT			
6491	T	C	S	TGATACATATATACAGGTTTTACTTGGACTTATGGCTATGTTAAGAAGGAAGACTGTGGTTACATTTTAGTGGAACTAAGGAA			
6491	T	T	S	TGATACATATATACAGGTTTTACTTGGATTTATGGCTATGTTAAGAAGGAAGACTGTGGTTACATTTTAGTGGAACTAAGGAA			
				GGTTGCAAAAACATTTGTGTTGTATTACTCAGTGATACATATATACAGGTTTTACTTGGA[CT]TTATGGCTATGTTAAGAAGGAAGACTGTGGTTACATTTTAGTGGA			
6491	IS	[CT]		ACTAAGGAATACTAC	ctg15064	7	
6514	I		A	TGCATTCTGGTTTTATAAGGAATTTGCAGGGGCAGCT			
6514	P	A	A	CGCGCCGAGGAGGACTAAGCATTTTTCATTATAC			
6514	P	G	A	ATGACGTGGCAGACGGGACTAAGCATTTTTCATTATAC			
6514	T	A	A	ACATGTATAATGAAAAATGCTTAGTCCTGCTGCCCCTGCAAATTCCTTATAAAACCAGAATGCATC			
6514	T	G	A	ACATGTATAATGAAAAATGCTTAGTCCCGCTGCCCCTGCAAATTCCTTATAAAACCAGAATGCATC			
				TATAAAACTTGCAAATATAAAAGATGCATTCTGGTTTTATAAGGAATTTGCAGGGGCAGC[AG]GGACTAAGCATTTTTCATTATACATGTTTTGCCAGTGACTTTGTA			
6514	IS	[AG]		GAACAGGGGTCAAGA	ctg14946	16	
6524	I		S	ACCAAATGGCAGCCGCCCCGACT			
6524	P	T	S	CGCGCCGAGGAGCTCCCCAATCCC			
6524	P	C	S	ATGACGTGGCAGACGGCTCCCCAATCCC			
6524	T	T	S	TGTGGGGATTGGGGAGCTGTCGGGGCGGCTGCCATTTGGTAG			
6524	T	C	S	TGTGGGGATTGGGGAGCCGTCGGGGCGGCTGCCATTTGGTAG			
				TGGAAGAGATTTGACGGTGTAGTGTCTTCAAGCTTGCTTTTTGTGTGGGGATTGGGGAGC[TC]GTCGGGGCGGCTGCCATTTGGTAGCTGTTGAGGGAGTTGAG			
6524	IS	[TC]		AGGGAGCGTATTGTGCGGA	ctg15128	17	
6532	I		S	CATGAAGAATGAGTATTGAAGCACGTAAGAACACAATGCT			
6532	P	T	S	CGCGCCGAGGATATGTTATTGCAATGTACAGATTAC			
6532	P	C	S	ATGACGTGGCAGACGTATGTTATTGCAATGTACAGATT			
6532	T	T	S	AACTGTAATCTGTACATTGCAATAACATATGCATTGTGTTCTTACGTGCTTCAATACTCATTCTTCATGTA			
6532	T	C	S	AACTGTAATCTGTACATTGCAATAACATACGCATTGTGTTCTTACGTGCTTCAATACTCATTCTTCATGTA			
				CACTCCTTCTTTCTTCTTGGACATTTAACTGAACTGTAATCTGTACATTGCAATAACATA[TC]GCATTGTGTTCTTACGTGCTTCAATACTCATTCTTCATGTAAACAT			
6532	IS	[TC]		ACTCATACATGTAT	ctg11	15	
6533	I		A	CAAGGGTTGAGGAAGGAGCAATGGTTTGGGATA			
6533	P	C	A	ATGACGTGGCAGACCAAGAGCCCAAGGATCA			
6533	P	T	A	CGCGCCGAGGTAAGAGCCCAAGGATCAG			
6533	T	C	A	AGTACTGATCCTTGGGCTCTTGATCCCAAACCATTGCTCCTTCCTCAACCCTTGGG			
6533	T	T	A	AGTACTGATCCTTGGGCTCTTAATCCCAAACCATTGCTCCTTCCTCAACCCTTGGG			
				GGTCCTGGCCAAGAACCCAACTCTCACCCAAGGGTTGAGGAAGGAGCAATGGTTTGGGAT[CT]AAGAGCCCAAGGATCAGTACTACCACTGGTCCTCAAGCATAT			
6533	IS	[CT]		CTTGTTCCCTCTTAGCTC	ctg22fin4	22	
6534	I		A	TGTGAACGCTACTTATGTGAACGTAAAATGTGTCGCTCCT			
6534	P	A	A	CGCGCCGAGGATATCCTTCTCTGTTGTCATC			
6534	P	G	A	ATGACGTGGCAGACGTATCCTTCTCTGTTGTCATC			
6534	T	A	A	TTCTGATGACAACAGAGAAGGATATGGAGCGACACATTTTACGTTCACATAAGTAGCGTTCACATG			
6534	T	G	A	TTCTGATGACAACAGAGAAGGATACGGAGCGACACATTTTACGTTCACATAAGTAGCGTTCACATG			
				CATTGGGGAGCACTATGTCCATGTGAACGCTACTTATGTGAACGTAAAATGTGTCGCTCC[AG]TATCCTTCTCTGTTGTCATCAGAAGATAACGCTGATGATGAGG			
6534	IS	[AG]		TGGACACACGACCAGCC	ctg25099	7	MET
6535	I		A	AGATGATTCTGAACAGAGAAACAACTAATTCCTAAGTTTACATTTTCATAGTATATCATAA			
6535	P	T	A	CGCGCCGAGGTACATTTCTTTTTCAGGTCTTTG			
6535	P	C	A	ATGACGTGGCAGACCACATTTCTTTTTCAGGTCTTT			
6535	T	T	A	AAAACAAAGACCTGAAAAAGAAATGTATATGATATACTATGAAAATGTAAACTTAGGAATTAGTTGTTTCTCTGTTCAGAATCATCT			
6535	T	C	A	AAAACAAAGACCTGAAAAAGAAATGTGTATGATATACTATGAAAATGTAAACTTAGGAATTAGTTGTTTCTCTGTTCAGAATCATCT			
				AGATGATTCTGAACAGAGAAACAACTAATTCCTAAGTTTACATTTTCATAGTATATCATA[TC]ACATTTCTTTTTCAGGTCTTTGTTTTGGGGTAATGGGAAAAACAAT			
6535	IS	[TC]		AGTGCTGTTTTAAA	ctg25099	7	
6536	I		A	GGATAACGCGCCCTCCTCATCACCCATATCA			
6536	P	C	A	ATGACGTGGCAGACCCTGCTTCTCCTTTATAAATTC			
6536	P	T	A	CGCGCCGAGGTCTGCTTCTCCTTTATAAATTCC			
6536	T	C	A	GTTTGGAATTTATAAAGGAGAAGCAGGGATATGGGTGATGAGGAGGGCGCGTTATCCGA			
6536	T	T	A	GTTTGGAATTTATAAAGGAGAAGCAGAGATATGGGTGATGAGGAGGGCGCGTTATCCGA			
				TCACAAAGTCTCTCCCAGCATGCCCGCTTCGGATAACGCGCCCTCCTCATCACCCATATC[CT]CTGCTTCTCCTTTATAAATTCCAAACAGAAGCAACAATAATCCC			
6536	IS	[CT]		AACCATCCTGGAATGC	ctg17465	16	
6547	I		S	ACACCTATTGGTTGTGATGCCAAGTAAGTGAGACTTTTCACTTTTATTTTATTGC			
6547	P	A	S	CGCGCCGAGGTATGTACATTATGTTTCAGTAAGTCT			
6547	P	C	S	ATGACGTGGCAGACGATGTACATTATGTTTCAGTAAGTC			
6547	T	A	S	AGAGAGACTTACTGAAACATAATGTACATACAATAAAATAAAAGTGAAAAAGTCTCACTTACTTGGCATCACAACCAATAGGTGTGA			
6547	T	C	S	AGAGAGACTTACTGAAACATAATGTACATCCAATAAAATAAAAGTGAAAAAGTCTCACTTACTTGGCATCACAACCAATAGGTGTGA			
				ATATTACATACACTGTATGTTTTACATGCTAAGAGAGACTTACTGAAACATAATGTACAT[AC]CAATAAAATAAAAGTGAAAAAGTCTCACTTACTTGGCATCACAACC			
6547	IS	[AC]		AATAGGTGTGAAGT	ctg15064	7	
6548	I		A	ACTTTGTAAACGTTTTCTTCATATAAACTCCATTTCTAAAAAGTAAAAAACACTATGTTA			
6548	P	C	A	ATGACGTGGCAGACCTGAGTCTCCTTTGTCATAAA			
6548	P	T	A	CGCGCCGAGGTTGAGTCTCCTTTGTCATAAA			
6548	T	C	A	CCTGTTTATGACAAAGGAGACTCAGAACATAGTGTTTTTTACTTTTTAGAAATGGAGTTTATATGAAGAAAACGTTTACAAAGTA			
6548	T	T	A	CCTGTTTATGACAAAGGAGACTCAAAACATAGTGTTTTTTACTTTTTAGAAATGGAGTTTATATGAAGAAAACGTTTACAAAGTA			
				TACTTTGTAAACGTTTTCTTCATATAAACTCCATTTCTAAAAAGTAAAAAACACTATGTT[CT]TGAGTCTCCTTTGTCATAAACAGGGATCATACAGAAAAGAGCAAGA			
6548	IS	[CT]		ATTAAAATGTATAG			
6554	I		A	CCCAGCTTTGTAACTTCCCATGTGAGTGACCATATCAAATCAAATTATTTAACA			
6554	P	T	A	CGCGCCGAGGTACACACTGTTTCCGTTATC			
6554	P	C	A	ATGACGTGGCAGACCACACACTGTTTCCGTTA			
6554	T	T	A	AGAAGATAACGGAAACAGTGTGTAGTTAAATAATTTGATTTGATATGGTCACTCACATGGGAAGTTACAAAGCTGGGAT			
6554	T	C	A	AGAAGATAACGGAAACAGTGTGTGGTTAAATAATTTGATTTGATATGGTCACTCACATGGGAAGTTACAAAGCTGGGAT			
				TTTGCATCCCAGCTTTGTAACTTCCCATGTGAGTGACCATATCAAATCAAATTATTTAAC[TC]ACACACTGTTTCCGTTATCTTCTCTAAAATCTCATTGTGTTGTCAT			
6554	IS	[TC]		AAGAATTAGGTTAT	ctg25099	7	
6558	I		S	CGAAGTTGTACACAAGACCAGTTTTATCTAGCTTAAAAGTTAAGGGCCTTATATGC			
6558	P	C	S	ATGACGTGGCAGACGACAACTATGGACTGCATT			
6558	P	A	S	CGCGCCGAGGTACAACTATGGACTGCATTTAA			
6558	T	C	S	CTCTTTAAATGCAGTCCATAGTTGTCCATATAAGGCCCTTAACTTTTAAGCTAGATAAAACTGGTCTTGTGTACAACTTCGGA			
6558	T	A	S	CTCTTTAAATGCAGTCCATAGTTGTACATATAAGGCCCTTAACTTTTAAGCTAGATAAAACTGGTCTTGTGTACAACTTCGGA			
				TCTGTTAACTATTAGAAGCTTTTAATATAGGAATTCTCTTTAAATGCAGTCCATAGTTGT[CA]CATATAAGGCCCTTAACTTTTAAGCTAGATAAAACTGGTCTTGTGT			
6558	IS	[CA]		ACAACTTCGGAATT	ctg14932	16	
6567	I		S	CGGAGCCCTTAACCCAGGGGGAACAGT			
6567	P	G	S	CGCGCCGAGGCAGGGAGCTTGTGC			
6567	P	C	S	ATGACGTGGCAGACGAGGGAGCTTGTGCC			
6567	T	G	S	GACAGGCACAAGCTCCCTGCTGTTCCCCCTGGGTTAAGGGCTCCGGT			
6567	T	C	S	GACAGGCACAAGCTCCCTCCTGTTCCCCCTGGGTTAAGGGCTCCGGT			
				AGGGGATGTTTGAAGTGGGTTTTGAAGGATGCATAGGAGTTTGACAGGCACAAGCTCCCT[GC]CTGTTCCCCCTGGGTTAAGGGCTCCGGTCAGTTCTTGCAGG			
6567	IS	[GC]		GATGGTCACCTCCCAGAGT	ctg_na	NA	
6573	I		S	GCCCCGGGGGTCCGCCCT			
6573	P	C	S	ATGACGTGGCAGACGCCCACATCCTGAGC			
6573	P	T	S	CGCGCCGAGGACCCACATCCTGAGC			
6573	T	C	S	AGGAGCTCAGGATGTGGGCGGGCGGACCCCCGGGGCTG			
6573	T	T	S	AGGAGCTCAGGATGTGGGTGGGCGGACCCCCGGGGCTG			

FIGURE 129B

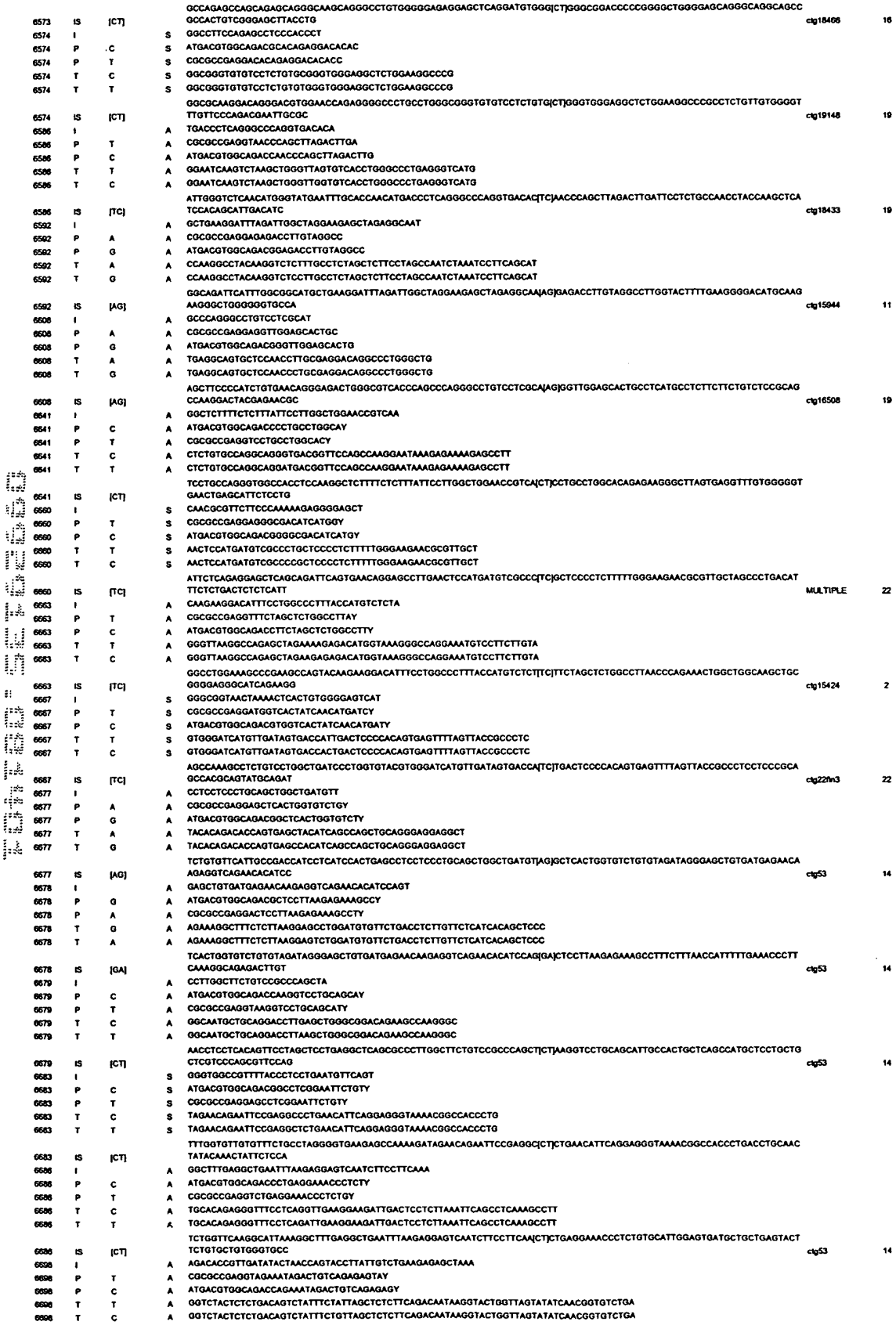

GCCAGAGCCAGCAGAGCAGGGCAAGCAGGGCCTGTGGGGGAGAGGAGCTCAGGATGTGGG[CT]GGGCGGACCCCCGGGGCTGGGGAGCAGGGCAGGCAGCC
6573 IS [CT] GCCACTGTCGGGAGCTTACCTG ctg18466 16
6574 I S GGCCTTCCAGAGCCTCCCACCCT
6574 P C S ATGACGTGGCAGACGCACAGAGGACACAC
6574 P T S CGCGCCGAGGACACAGAGGACACACC
6574 T C S GGCGGGTGTGTCCTCTGTGCGGGTGGGAGGCTCTGGAAGGCCCG
6574 T T S GGCGGGTGTGTCCTCTGTGTGGGTGGGAGGCTCTGGAAGGCCCG
GGCGCAAGGACAGGGACGTGGAACCAGAGGGGCCCTGCCTGGGCGGGTGTGTCCTCTGTG[CT]GGGTGGGAGGCTCTGGAAGGCCCGCCTCTGTTGTGGGGT
6574 IS [CT] TTGTTCCCAGACGAATTGCGC ctg19148 19
6586 I A TGACCCTCAGGGCCCAGGTGACACA
6586 P T A CGCGCCGAGGTAACCCAGCTTAGACTTGA
6586 P C A ATGACGTGGCAGACCAACCCAGCTTAGACTTG
6586 T T A GGAATCAAGTCTAAGCTGGGTTAGTGTCACCTGGGCCCTGAGGGTCATG
6586 T C A GGAATCAAGTCTAAGCTGGGTTGGTGTCACCTGGGCCCTGAGGGTCATG
ATTGGGTCTCAACATGGGTATGAATTTGCACCAACATGACCCTCAGGGCCCAGGTGACAC[TC]AACCCAGCTTAGACTTGATTCCTCTGCCAACCTACCAAGCTCA
6586 IS [TC] TCCACAGCATTGACATC ctg18433 19
6592 I A GCTGAAGGATTTAGATTGGCTAGGAAGAGCTAGAGGCAA
6592 P A A CGCGCCGAGGAGAGACCTTGTAGGCC
6592 P G A ATGACGTGGCAGACGGAGACCTTGTAGGCC
6592 T A A CCAAGGCCTACAAGGTCTCTTTGCCTCTAGCTCTTCCTAGCCAATCTAAATCCTTCAGCAT
6592 T G A CCAAGGCCTACAAGGTCTCCTTGCCTCTAGCTCTTCCTAGCCAATCTAAATCCTTCAGCAT
GGCAGATTCATTTGGCGGCATGCTGAAGGATTTAGATTGGCTAGGAAGAGCTAGAGGCAA[AG]GAGACCTTGTAGGCCTTGGTACTTTTGAAGGGGACATGCAAG
6592 IS [AG] AAGGGCTGGGGGGTGCCA ctg15944 11
6608 I A GCCCAGGGCCTGTCCTCGCAT
6608 P A A CGCGCCGAGGAGGTTGGAGCACTGC
6608 P G A ATGACGTGGCAGACGGGTTGGAGCACTG
6608 T A A TGAGGCAGTGCTCCAACCTTGCGAGGACAGGCCCTGGGCTG
6608 T G A TGAGGCAGTGCTCCAACCCTGCGAGGACAGGCCCTGGGCTG
AGCTTCCCCATCTGTGAACAGGGAGACTGGGCGTCACCCAGCCCAGGGCCTGTCCTCGCA[AG]GGTTGGAGCACTGCCTCATGCCTCTTCTTCTGTCTCCGCAG
6608 IS [AG] CCAAGGACTACGAGAACGC ctg16508 19
6641 I A GGCTCTTTTCTCTTTATTCCTTGGCTGGAACCGTCAA
6641 P C A ATGACGTGGCAGACCCCTGCCTGGCAY
6641 P T A CGCGCCGAGGTCCTGCCTGGCACY
6641 T C A CTCTGTGCCAGGCAGGGTGACGGTTCCAGCCAAGGAATAAAGAGAAAAGAGCCTT
6641 T T A CTCTGTGCCAGGCAGGATGACGGTTCCAGCCAAGGAATAAAGAGAAAAGAGCCTT
TCCTGCCAGGGTGGCCACCTCCAAGGCTCTTTTCTCTTTATTCCTTGGCTGGAACCGTCA[CT]CCTGCCTGGCACAGAGAAGGGCTTAGTGAGGTTTGTGGGGGT
6641 IS [CT] GAACTGAGCATTCTCCTG
6660 I S CAACGCGTTCTTCCCAAAAAGAGGGGAGCT
6660 P T S CGCGCCGAGGAGGGCGACATCATGGY
6660 P C S ATGACGTGGCAGACGGGGCGACATCATGY
6660 T T S AACTCCATGATGTCGCCCTGCTCCCCTCTTTTTGGGAAGAACGCGTTGCT
6660 T C S AACTCCATGATGTCGCCCCGCTCCCCTCTTTTTGGGAAGAACGCGTTGCT
ATTCTCAGAGGAGCTCAGCAGATTCAGTGAACAGGAGCCTTGAACTCCATGATGTCGCCC[TC]GCTCCCCTCTTTTTGGGAAGAACGCGTTGCTAGCCCTGACAT
6660 IS [TC] TTCTCTGACTCTCTCATT MULTIPLE 22
6663 I A CAAGAAGGACATTTCCTGGCCCTTTACCATGTCTCTA
6663 P T A CGCGCCGAGGTTTCTAGCTCTGGCCTTAY
6663 P C A ATGACGTGGCAGACCTTCTAGCTCTGGCCTTY
6663 T T A GGGTTAAGGCCAGAGCTAGAAAAGAGACATGGTAAAGGGCCAGGAAATGTCCTTCTTGTA
6663 T C A GGGTTAAGGCCAGAGCTAGAAGAGACATGGTAAAGGGCCAGGAAATGTCCTTCTTGTA
GGCCTGGAAAGCCCGAAGCCAGTACAAGAAGGACATTTCCTGGCCCTTTACCATGTCTCT[TC]TTCTAGCTCTGGCCTTAACCCAGAAACTGGCTGGCAAGCTGC
6663 IS [TC] GGGGAGGGCATCAGAAGG ctg15424 2
6667 I S GGGCGGTAACTAAAACTCACTGTGGGGAGTCAT
6667 P T S CGCGCCGAGGATGGTCACTATCAACATGATCY
6667 P C S ATGACGTGGCAGACGTGGTCACTATCAACATGATY
6667 T T S GTGGGATCATGTTGATAGTGACCATTGACTCCCCACAGTGAGTTTTAGTTACCGCCCTC
6667 T C S GTGGGATCATGTTGATAGTGACCACTGACTCCCCACAGTGAGTTTTAGTTACCGCCCTC
AGCCAAAGCCTCTGTCCTGGCTGATCCCTGGTGTACGTGGGATCATGTTGATAGTGACCA[TC]TGACTCCCCACAGTGAGTTTTAGTTACCGCCCTCCTCCCGCA
6667 IS [TC] GCCACGCAGTATGCAGAT ctg22fin3 22
6677 I A CCTCCTCCCTGCAGCTGGCTGATGTT
6677 P A A CGCGCCGAGGAGCTCACTGGTGTCTGY
6677 P G A ATGACGTGGCAGACGGCTCACTGGTGTCTY
6677 T A A TACACAGACACCAGTGAGCTACATCAGCCAGCTGCAGGGAGGAGGCT
6677 T G A TACACAGACACCAGTGAGCCACATCAGCCAGCTGCAGGGAGGAGGCT
TCTGTGTTCATTGCCGACCATCCTCATCCACTGAGCCTCCTCCCTGCAGCTGGCTGATGT[AG]GCTCACTGGTGTCTGTGTAGATAGGGAGCTGTGATGAGAACA
6677 IS [AG] AGAGGTCAGAACACATCC ctg53 14
6678 I A GAGCTGTGATGAGAACAAGAGGTCAGAACACATCCAGT
6678 P G A ATGACGTGGCAGACGCTCCTTAAGAGAAAGCCY
6678 P A A CGCGCCGAGGACTCCTTAAGAGAAAGCCTY
6678 T G A AGAAAGGCTTTCTCTTAAGGAGCCTGGATGTGTTCTGACCTCTTGTTCTCATCACAGCTCCC
6678 T A A AGAAAGGCTTTCTCTTAAGGAGTCTGGATGTGTTCTGACCTCTTGTTCTCATCACAGCTCCC
TCACTGGTGTCTGTGTAGATAGGGAGCTGTGATGAGAACAAGAGGTCAGAACACATCCAG[GA]CTCCTTAAGAGAAAGCCTTTCTTTAACCATTTTTGAAACCCTT
6678 IS [GA] CAAAGGCAGAGACTTGT ctg53 14
6679 I A CCTTGGCTTCTGTCCGCCCAGCTA
6679 P C A ATGACGTGGCAGACCAAGGTCCTGCAGCAY
6679 P T A CGCGCCGAGGTAAGGTCCTGCAGCATY
6679 T C A GGCAATGCTGCAGGACCTTGAGCTGGGCGGACAGAAGCCAAGGGC
6679 T T A GGCAATGCTGCAGGACCTTAAGCTGGGCGGACAGAAGCCAAGGGC
AACCTCCTCACAGTTCCTAGCTCCTGAGGCTCAGCGCCCTTGGCTTCTGTCCGCCCAGCT[CT]AAGGTCCTGCAGCATTGCCACTGCTCAGCCATGCTCCTGCTG
6679 IS [CT] CTCGTCCCAGCGTTCCAG ctg53 14
6683 I S GGGTGGCCGTTTTACCCTCCTGAATGTTCAGT
6683 P C S ATGACGTGGCAGACGGCCTCGGAATTCTGTY
6683 P T S CGCGCCGAGGAGCCTCGGAATTCTGTY
6683 T C S TAGAACAGAATTCCGAGGCCCTGAACATTCAGGAGGGTAAAACGGCCACCCTG
6683 T T S TAGAACAGAATTCCGAGGCTCTGAACATTCAGGAGGGTAAAACGGCCACCCTG
TTTGGTGTTGTGTTTCTGCCTAGGGGTGAAGAGCCAAAAGATAGAACAGAATTCCGAGGC[CT]CTGAACATTCAGGAGGGTAAAACGGCCACCCTGACCTGCAAC
6683 IS [CT] TATACAAACTATTCTCCA
6686 I A GGCTTTGAGGCTGAATTTAAGAGGAGTCAATCTTCCTTCAAA
6686 P C A ATGACGTGGCAGACCCTGAGGAAACCCTCTY
6686 P T A CGCGCCGAGGTCTGAGGAAACCCTCTGY
6686 T C A TGCACAGAGGGTTTCCTCAGGTTGAAGGAAGATTGACTCCTCTTAAATTCAGCCTCAAAGCCTT
6686 T T A TGCACAGAGGGTTTCCTCAGATTGAAGGAAGATTGACTCCTCTTAAATTCAGCCTCAAAGCCTT
TCTGGTTCAAGGCATTAAAGGCTTTGAGGCTGAATTTAAGAGGAGTCAATCTTCCTTCAA[CT]CTGAGGAAACCCTCTGTGCATTGGAGTGATGCTGCTGAGTACT
6686 IS [CT] TCTGTGCTGTGGGTGCC ctg53 14
6698 I A AGACACCGTTGATATACTAACCAGTACCTTATTGTCTGAAGAGAGCTAAA
6698 P T A CGCGCCGAGGTAGAAATAGACTGTCAGAGAGTAY
6698 P C A ATGACGTGGCAGACCAGAAATAGACTGTCAGAGAGY
6698 T T A GGTCTACTCTCTGACAGTCTATTTCTATTAGCTCTCTTCAGACAATAAGGTACTGGTTAGTATATCAACGGTGTCTGA
6698 T C A GGTCTACTCTCTGACAGTCTATTTCTGTTAGCTCTCTTCAGACAATAAGGTACTGGTTAGTATATCAACGGTGTCTGA

FIGURE 129B

				CTGGGCCCCTCAGACACCGTTGATATACTAACCAGTACCTTATTGTCTGAAGAGAGCTAA[TC]AGAAATAGACTGTCAGAGAGTAGACCAAACAGAAATGAATAATT			
6698	IS	[TC]		GTAAACAGAAGCAGAG	ctg13361	9	
6730	I		A	CTTGTGGCCTCACCCTGTTCCCACCT			
6730	P	G	A	ATGACGTGGCAGACGCGCCCCTTGCCY			
6730	P	A	A	CGCGCCGAGGACGCCCCTTGCCY			
6730	T	G	A	TGTGGGCAAGGGGCGCGGTGGGAACAGGGTGAGGCCACAAGGG			
6730	T	A	A	TGTGGGCAAGGGGCGTGGTGGGAACAGGGTGAGGCCACAAGGG			
				CTTCCCAGGACAGGCCTGGTGGTGTGGTTGTGCCCCTTGTGGCCTCACCCTGTTCCCACC[GA]CGCCCCTTGCCCACAGCTTCACCCTCCCCAGAGCTGGTCCG			
6730	IS	[GA]		GTACTCTACGCTCAACTCT	ctg23	17	
6741	I		A	TGTCCCCTACCACCACCGGTCACAGAA			
6741	P	T	A	CGCGCCGAGGTGTGAGCCTTGAGTTGY			
6741	P	C	A	ATGACGTGGCAGACCGTGAGCCTTGAGTTGY			
6741	T	T	A	GCTGCAACTCAAGGCTCACATCTGTGACCGGTGGTGGTAGGGGACAGC			
6741	T	C	A	GCTGCAACTCAAGGCTCACGTCTGTGACCGGTGGTGGTAGGGGACAGC			
				ATTTCTCCTGACTCTTTCTCTTCCCCGTCCCAGCTGTCCCCTACCACCACCGGTCACAGA[TC]GTGAGCCTTGAGTTGCAGCAGCTGCGGGAAGAACGGAACCGC			
6741	IS	[TC]		CTGGATGCAGAACTGCAG	ctg15907	6	
6743	I		A	CGCGCACTTCAGGAATCTCCTCTTCAGACTCTT			
6743	P	C	A	CGCGCCGAGGCGCATGATGAGTGTTGTY			
6743	P	G	A	ATGACGTGGCAGACGGCATGATGAGTGTTGTTY			
6743	T	C	A	AGAGAACAACACTCATCATGCGAGAGTCTGAAGAGGAGATTCCTGAAGTGCGCGCA			
6743	T	G	A	AGAGAACAACACTCATCATGCCAGAGTCTGAAGAGGAGATTCCTGAAGTGCGCGCA			
				CCAAGCACAAAGGGACAAGGGACAAATGCGCGCACTTCAGGAATCTCCTCTTCAGACTCT[CG]GCATGATGAGTGTTGTTCTCTGCGGTCCTTCGAGGCCCTTAG			
6743	IS	[CG]		CCTCTTTTAGCGATGCCC	ctg15907	6	
6747	I		A	GGGACCACGCCTTCTGCTCCACCT			
6747	P	C	A	ATGACGTGGCAGACCCAACGCAATCGGAGY			
6747	P	A	A	CGCGCCGAGGACAACGCAATCGGAGY			
6747	T	C	A	TTTCCTCCGATTGCGTTGGGGTGGAGCAGAAGGCGTGGTCCCCA			
6747	T	A	A	TTTCCTCCGATTGCGTTGTGGTGGAGCAGAAGGCGTGGTCCCCA			
				AAAGAGCCTGCCTGTTCCCGCCCCACCTGGGGAAATGGGGACCACGCCTTCTGCTCCACC[CA]CAACGCAATCGGAGGAAATCTGTTCACCGAGTGTTGGCGGA			
6747	IS	[CA]		ACTGGATGATGAGAGTGAG	ctg15907	6	TCF19
6748	I		A	CTTGTGGAGAGTCCCTGTTTCCCCCCAT			
6748	P	G	A	ATGACGTGGCAGACGTTTTTTTTTTCCTTTTCACCCY			
6748	P	A	A	CGCGCCGAGGATTTTTTTTTTCCTTTTCACCCY			
6748	T	G	A	TATTGGGTGAAAAGGAAAAAAAAAAACTGGGGGGAAACAGGGACTCTCCACAAGGC			
6748	T	A	A	TATTGGGTGAAAAGGAAAAAAAAAAATTGGGGGGAAACAGGGACTCTCCACAAGGC			
				CTGCGAGGCGGGAAGCTCTAGAGGAACTCTGGCCTTGTGGAGAGTCCCTGTTTCCCCCCA[GA]TTTTTTTTTTTCCTTTTCACCCAATAAAACTCTGCTTTACACAC			
6748	IS	[GA]		CCTTCAAACCACCTGC			
6762	I		S	ACCCCTATCTTTCCACCCTCCTCCGTTGAACT			
6762	P	C	S	ATGACGTGGCAGACGTTTCCCAAGTCTGTCTGY			
6762	P	T	S	CGCGCCGAGGATTTCCCAAGTCTGTCTGY			
6762	T	C	S	GGGGCAGACAGACTTGGGAAACGTTCAACGGAGGAGGGTGGAAAGATAGGGGTTG			
6762	T	T	S	GGGGCAGACAGACTTGGGAAATGTTCAACGGAGGAGGGTGGAAAGATAGGGGTTG			
				AGTGCCCTTGGGGATTGGGGAGTTGAGATCAGGAGTTCTGGGGCAGACAGACTTGGGAAA[CT]GTTCAACGGAGGAGGGTGGAAAGATAGGGGTTGCCTGGGA			
6762	IS	[CT]		ATGATGGGGTCTCTGGAATG	ctg14932	16	
6778	I		S	AAAATTTTAGGCCACTTCCTGGGTTTGGTCTTA			
6778	P	G	S	ATGACGTGGCAGACCTGTAAAGATGGCTGATGGY			
6778	P	A	S	CGCGCCGAGGTTGTAAAGATGGCTGATGGY			
6778	T	G	S	TAGCCCATCAGCCATCTTTACAGAAGACCAAACCCAGGAAGTGGCCTAAAATTTTTA			
6778	T	A	S	TAGCCCATCAGCCATCTTTACAAAAGACCAAACCCAGGAAGTGGCCTAAAATTTTTA			
				AAGGAATGTCTAGAAATGTTTATAACGAGGGTGAACTATAGCCCATCAGCCATCTTTACA[GA]AAGACCAAACCCAGGAAGTGGCCTAAAATTTTTAAACTCACTTT			
6778	IS	[GA]		ACCCAAAACTTCAGAA	ctg13715	13	
6791	I		A	TGCTGGAATCAGAACCAGTAGATGGACCCTTTTATTGTAGACT			
6791	P	G	A	ATGACGTGGCAGACGACTCATGCTTTTACACTTTAACY			
6791	P	A	A	CGCGCCGAGGAACTCATGCTTTTACACTTTAACY			
6791	T	G	A	AGAAGTTAAAGTGTAAAAGCATGAGTCGTCTACAATAAAAGGGTCCATCTACTGGTTCTGATTCCAGCAGC			
6791	T	A	A	AGAAGTTAAAGTGTAAAAGCATGAGTTGTCTACAATAAAAGGGTCCATCTACTGGTTCTGATTCCAGCAGC			
				TATGCCTGTTAGAGTTGCTGCTGGAATCAGAACCAGTAGATGGACCCTTTTATTGTAGAC[GA]ACTCATGCTTTTACACTTTAACTTCTGCCTATGATTAAGTGATTT			
6791	IS	[GA]		GTACAGATTTGAATG	ctg15907	6	
6801	I		A	GGCTGCTTTTGGACCCCTGGCAACTTCA			
6801	P	C	A	ATGACGTGGCAGACCAGAAGTGGAAAAGCAGGY			
6801	P	T	A	CGCGCCGAGGTAGAAGTGGAAAAGCAGGAY			
6801	T	C	A	ATGGTCCTGCTTTTCCACTTCTGGAAGTTGCCAGGGGTCCAAAAGCAGCCTT			
6801	T	T	A	ATGGTCCTGCTTTTCCACTTCTAGAAGTTGCCAGGGGTCCAAAAGCAGCCTT			
				AGAGGTAGGGCGGTTGTCGCCTCCCAGGCTGAAGGCTGCTTTTGGACCCCTGGCAACTTC[CT]AGAAGTGGAAAAGCAGGACCATCTAGCTTACTCCTTCCCAG			
6801	IS	[CT]		GCTTCCTTGGTGGAAGAGG	ctg16537	20	
6804	I		S	GGTGTGCCCTCCCTGGCCACTTGT			
6804	P	T	S	CGCGCCGAGGAACCCTCCCTCCACY			
6804	P	C	S	ATGACGTGGCAGACGACCCTCCCTCCACY			
6804	T	T	S	TGGGGTGGAGGGAGGGTTCAAGTGGCCAGGGAGGGCACACCTA			
6804	T	C	S	TGGGGTGGAGGGAGGGTCCAAGTGGCCAGGGAGGGCACACCTA			
				GGATGTGGGCTCAGGGAACAGAGGGTAAAGTTGTAGTCAAGGTGGGGTGGAGGGAGGGTTTC]CAAGTGGCCAGGGAGGGCACACCTACCTGTACAATAGGGT			
6804	IS	[TC]		TGTGCAGGTTCTTCTGAACT	ctg14715	1	
6821	I		S	GGAAAAAACTGCAGGCAAATACATATTAGTACTATTATTTTAAAATCAGCATGATATAT			
6821	P	G	S	ATGACGTGGCAGACCTGCAGGCAGAGCAY			
6821	P	T	S	CGCGCCGAGGATGCAGGCAGAGCAY			
6821	T	G	S	GCGATGCTCTGCCTGCAGTATATCATGCTGATTTTAAAATAATAGTACTAATATGTATTTGCCTGCAGTTTTTTCCAC			
6821	T	T	S	GCGATGCTCTGCCTGCATTATATCATGCTGATTTTAAAATAATAGTACTAATATGTATTTGCCTGCAGTTTTTTCCAC			
				GAAGTTTCTCAGAGATCAATTTATTTTCCCAAACAATTGCATAGCGATGCTCTGCCTGCA[GT]TATATCATGCTGATTTTAAAATAATAGTACTAATATGTATTTGCCT			
6821	IS	[GT]		GCAGTTTTTTCCAC	ctg15064	7	
6823	I		A	CCCATGTGCCAGGCGCTGTGCTCA			
6823	P	C	A	ATGACGTGGCAGACCGTGCCTTACATGCATY			
6823	P	T	A	CGCGCCGAGGTGTGCCTTACATGCATGY			
6823	T	C	A	CAATCATGCATGTAAGGCACAGAGCACAGCGCCTGGCACATGGGAA			
6823	T	T	A	CAATCATGCATGTAAGGCACAGAGCACAGCGCCTGGCACATGGGAA			
				ACGTGTATAAAGTAGACCTGATGTTTAGTGAGTGTTTCCCATGTGCCAGGCGCTGTGCTC[CT]GTGCCTTACATGCATGATTGCGTTTCAGTTTTGTAACACCTCAT			
6823	IS	[CT]		TGGCAGTGGTGTTATT	ctg15064	7	
6858	I		S	TCCAGAAGCGCTCAAGCTTTTATGGCCTTAACCTAAAAA			
6858	P	A	S	CGCGCCGAGGTGTGGCCGGACACY			
6858	P	G	S	ATGACGTGGCAGACCGTGGCCGGACAY			
6858	T	A	S	CACTGTGTCCGGCCACATTTTAGGTTAAGGCCATAAAAGCTTGAGCGCTTCTGGATC			
6858	T	G	S	CACTGTGTCCGGCCACGTTTTAGGTTAAGGCCATAAAAGCTTGAGCGCTTCTGGATC			
				GCCATCTGCCTGCCTCCCAAAGAGCTGGGATCCCAGGCGTGAGCCACTGTGTCCGGCCAC[AG]TTTTAGGTTAAGGCCATAAAAGCTTGAGCGCTTCTGGATCCC			
6858	IS	[AG]		ACACTGGGGTGGGGCCTG	ctg19	19	
6862	I		S	GTGGGCCACCTGCCTGGGGAT			
6862	P	T	S	CGCGCCGAGGACCCTGAGCCCTGAY			
6862	P	C	S	ATGACGTGGCAGACGCCCTGAGCCCTGY			
6862	T	T	S	CAGCTCAGGGCTCAGGGTTCCCCAGGCAGGTGGCCCACTT			
6862	T	C	S	CAGCTCAGGGCTCAGGGCTCCCCAGGCAGGTGGCCCACTT			

FIGURE 129B

				TGCGGTGGAGTGAAGGTGGTGCAGTTGAGAGGGGAGTCGGGCCCAGCTCAGGGCTCAGGG[TC]TCCCCAGGCAGGTGGCCCACTTCCCCTAGGGACACCTGG			
6862	IS	[TC]		ACACCCACTGCGATGGGGCAG	ctg_na	NA	
6887	I		S	GGGATGGGGGCCCACAGCCCT			
6887	P	C	S	ATGACGTGGCAGACGGGCCAGAGCCAGY			
6887	P	T	S	CGCGCCGAGGAGGCCAGAGCCAGY			
6887	T	C	S	ATCACTGGCTCTGGCCCGGGCTGTGGGCCCCCATCCCCC			
6887	T	T	S	ATCACTGGCTCTGGCCTGGGCTGTGGGCCCCCATCCCCC			
				ATAAAGGAGAAACTGAGGTACCCGGCTGGCATCGGTCCTGCCCCATCACTGGCTCTGGCC[CT]GGGCTGTGGGCCCCCATCCCCCGGGGCTGCAGCCGCACTT			
6887	IS	[CT]		GGAAAGGCTGCATCTTGAGG	ctg15907	6	CYP21A2
6897	I		A	GTCACAGATCGCTGTCTGCCCACTCCAA			
6897	P	C	A	ATGACGTGGCAGACCCGGCCATTCACTTGY			
6897	P	T	A	CGCGCCGAGGTCGGCCATTCACTTGY			
6897	T	C	A	CTGCCAAGTGAATGGCCGGTGGAGTGGGCAGACAGCGATCTGTGACAA			
6897	T	T	A	CTGCCAAGTGAATGGCCGATGGAGTGGGCAGACAGCGATCTGTGACAA			
				ATGTAGGGGGAGGGGATGCTTCTCACCTCCGTTGTCACAGATCGCTGTCTGCCCACTCCA[CT]CGGCCATTCACTTGGCAGGTGCGATTGGCAGAGCCCCGGAG			
6897	IS	[CT]		AGTGTAACCGTCATAGCAG	ctg15907	6	
6913	I		S	ACCCTTGGTTCTGAGGACCCCCAGCA			
6913	P	A	S	CGCGCCGAGGTCCATCTCCCCACCAY			
6913	P	G	S	ATGACGTGGCAGACCCCATCTCCCCACCY			
6913	T	A	S	AGAGTGGTGGGGAGATGGAGCTGGGGGTCCTCAGAACCAAGGGTCT			
6913	T	G	S	AGAGTGGTGGGGAGATGGGGCTGGGGGTCCTCAGAACCAAGGGTCT			
				CTGGGAAAATGAAGACCTGCTGGTAAGACAATAACCCTGGAAAGAGTGGTGGGGAGATGG[AG]GCTGGGGGTCCTCAGAACCAAGGGTCTGTATTTTTGCAGCA			
6913	IS	[AG]		GTGGTAAGATGAGAGTAGG	ctg13255	6	
6914	I		S	TCCAACAAGGTGTCCTGTGGGGACAGCA			
6914	P	A	S	CGCGCCGAGGTGTCATTGTCTATGCTGGY			
6914	P	G	S	ATGACGTGGCAGACCGTCATTGTCTATGCTGGY			
6914	T	A	S	CTGACCAGCATAGACAATGACAGCTGTCCCCACAGGACACCTTGTTGGAGT			
6914	T	G	S	CTGACCAGCATAGACAATGACGGCTGTCCCCACAGGACACCTTGTTGGAGT			
				CAGTCCAAACGGGGTCTGGTCACCTGGGGCGGGGACTTGCTGACCAGCATAGACAATGAC[AG]GCTGTCCCCACAGGACACCTTGTTGGAGTGTGTGAATAAGA			
6914	IS	[AG]		AGGTCCCCGTACTGCTGTC	ctg16857	14	
6920	I		S	CCCCTCTGTCCTGTGTCCCCTGCCC			
6920	P	T	S	CGCGCCGAGGATGTCCCTGTCTGACCY			
6920	P	A	S	ATGACGTGGCAGACTTGTCCCTGTCTGACCY			
6920	T	T	S	CCTGGGTCAGACAGGGACATGGCAGGGGACACAGGACAGAGGGGTC			
6920	T	A	S	CCTGGGTCAGACAGGGACAAGGCAGGGGACACAGGACAGAGGGGTC			
				GTGGCCAGCGTAGGGTCCAGCACGTGGGGTGGTACCCCAGGCCTGGGTCAGACAGGGACA[TA]GGCAGGGGACACAGGACAGAGGGGTCCCCAGCTGCCACC			
6920	IS	[TA]		TCACCCACCGCAATTCATTTA	MULTIPLE	MULTIPLE	
6925	I		S	GGTGAGGCAGGTGGGAACTCCAGCTTT			
6925	P	C	S	ATGACGTGGCAGACGTGGATTTCCCTAGCCY			
6925	P	T	S	CGCGCCGAGGATGGATTTCCCTAGCCCY			
6925	T	C	S	CCCTGGGCTAGGGAAATCCACAAGCTGGAGTTCCCACCTGCCTCACCCC			
6925	T	T	S	CCCTGGGCTAGGGAAATCCATAAGCTGGAGTTCCCACCTGCCTCACCCC			
				GGGATGCAGGCAGAGTGGGTGAGGGAGGGAGGGTTGCCTTCCCTGGGCTAGGGAAATCCA[CT]AAGCTGGAGTTCCCACCTGCCTCACCCCTGCCTGCTGCTG			
6925	IS	[CT]		CTGCCAGCCTGCATGGGCGG	ctg17748	14	
11069	I		A	CACCCTGAGCTGGTTCCTCTGCATCCAGA			
11069	P	C	A	ATGACGTGGCAGACCTGGTCTCCCACACC			
11069	P	T	A	CGCGCCGAGGTTGGTCTCCCACACC			
11069	T	C	A	CCTGGGTGTGGGAGACCAGCTGGATGCAGAGGAACCAGCTCAGGGTGAC			
11069	T	T	A	CCTGGGTGTGGGAGACCAACTGGATGCAGAGGAACCAGCTCAGGGTGAC			
				TGAGACCTGAGGATCCAGTGCCTGTGCTGTGTCACCCTGAGCTGGTTCCTCTGCATCCAG[CT]TGGTCTCCCACACCCAGGTTTTGGCCAGCTGCCCAGACATGG			
11069	IS	[CT]		GAGCGGCACCCAGGCTGT	ctg18433	19	
11077	I		S	GGGCTCCCGGGACGTCCCCT			
11077	P	C	S	ATGACGTGGCAGACGGAGGACATGGCCAY			
11077	P	T	S	CGCGCCGAGGAGAGGACATGGCCACY			
11077	T	C	S	AGCTGTGGCCATGTCCTCCGGGGACGTCCCGGGAGCCCGA			
11077	T	T	S	AGCTGTGGCCATGTCCTCTGGGGACGTCCCGGGAGCCCGA			
				CCCTTTCCCAGGGATTCAGACCATGTCAGCTTCAGTCCAGAGAGCTGTGGCCATGTCCTC[CT]GGGGACGTCCCGGGAGCCCGAGGGGCCGTGGAGGGGATCC			
11077	IS	[CT]		TCATCCAGCAGGTGTTTGAG	ctg21fin5	21	
11176	I		A	GGGGCTCTGGCCTGAAACTCTCCCTTTT			
11176	P	G	A	ATGACGTGGCAGACGCCAGATCCTGGAGGY			
11176	P	C	A	CGCGCCGAGGCCCAGATCCTGGAGGY			
11176	T	G	A	GACTCCTCCAGGATCTGGCAAAGGGAGAGTTTCAGGCCAGAGCCCCAA			
11176	T	C	A	GACTCCTCCAGGATCTGGGAAAGGGAGAGTTTCAGGCCAGAGCCCCAA			
				GCTGAGCAGGCCTGGGAGCGGGAGGGAGCAGTTGGGGCTCTGGCCTGAAACTCTCCCTTT[GC]CCAGATCCTGGAGGAGTCTGACATTGACAGGGATGGAACC			
11176	IS	[GC]		ATCAACCTCTCTGAGTTCCA	ctg11	15	
11205	I		A	TCCCAGTGGTTTGATTGGCACATTCTGATTCTCTTACCA			
11205	P	C	A	ATGACGTGGCAGACCGTGCTTTCCCAAGACY			
11205	P	T	A	CGCGCCGAGGTGTGCTTTCCCAAGACTY			
11205	T	C	A	GCAAAGTCTTGGGAAAGCACGGGTAAGAGAATCAGAATGTGCCAATCAAACCACTGGGAGG			
11205	T	T	A	GCAAAGTCTTGGGAAAGCACAGGTAAGAGAATCAGAATGTGCCAATCAAACCACTGGGAGG			
				CTCTAAAAAGCCACAGCAGCCCTCCCAGTGGTTTGATTGGCACATTCTGATTCTCTTACC[CT]GTGCTTTCCCAAGACTTTGCTATACTGTTTCTTTTTAGATCCCA			
11205	IS	[CT]		AATACTTCACAAATAC	ctg22fin3	22	
11208	I		S	TCTGGACATCAGAGAGGTCGGTGCCACAATT			
11208	P	G	S	ATGACGTGGCAGACCAACTTGAAACACCAGAAGAY			
11208	P	T	S	CGCGCCGAGGAAACTTGAAACACCAGAAGAY			
11208	T	G	S	GGGATCTTCTGGTGTTTCAAGTTGATTGTGGCACCGACCTCTCTGATGTCCAGAAC			
11208	T	T	S	GGGATCTTCTGGTGTTTCAAGTTTATTGTGGCACCGACCTCTCTGATGTCCAGAAC			
				AGTAATTTAAAGTGAGTGACAGGCCCACAATTCCCAGGGATCTTCTGGTGTTTCAAGTT[GT]ATTGTGGCACCGACCTCTCTGATGTCCAGAACAAGCATTCTGT			
11208	IS	[GT]		CTCCTGGCAAAGTCTTT	ctg22fin3	22	
11224	I		A	GGGCTGGCCGTCTGCTTCCTGACA			
11224	P	C	A	ATGACGTGGCAGACCGAGACCCGCAACAY			
11224	P	T	A	CGCGCCGAGGTGAGACCCGCAACATY			
11224	T	C	A	GGGCATGTTGCGGGTCTCGGTCAGGAAGCAGACGGCCAGCCCAG			
11224	T	T	A	GGGCATGTTGCGGGTCTCAGTCAGGAAGCAGACGGCCAGCCCAG			
				GCCACCCGTGAGCTTTGGGGCCACCGCAATCCTGGCTGGGCTGGCCGTCTGCTTCCTGAC[CT]GAGACCCGCAACATGCCCCTGGTGGAGACCATCGCAGCCA			
11224	IS	[CT]		TGGAGAGGAGGTGAGGGGCC	ctg17042	11	
11240	I		S	AGAAGTTTCTAGGGACAGGATTCATGCCCCCCT			
11240	P	C	S	ATGACGTGGCAGACGTTCATTCTGGGGCTCY			
11240	P	T	S	CGCGCCGAGGATTCATTCTGGGGCTCCY			
11240	T	C	S	GCTAGGAGCCCCAGAATGAACGGGGGGCATGAATCCTGTCCCTAGAAACTTCTCA			
11240	T	T	S	GCTAGGAGCCCCAGAATGAATGGGGGGCATGAATCCTGTCCCTAGAAACTTCTCA			
				CACAGACATTTATGGAGTCTTCTCCGGTACCAGGCACGGAGCTAGGAGCCCCAGAATGAA[CT]GGGGGGCATGAATCCTGTCCCTAGAAACTTCTCAGCATGGTG			
11240	IS	[CT]		GTGGATGGGTGGGAGGGG	ctg15330	9	
11248	I		S	CATCTGTGCTGGGAAAGGACCCCAGAGTA			
11248	P	A	S	CGCGCCGAGGTGGCTGCTAAAGGAACY			
11248	P	G	S	ATGACGTGGCAGACCGGCTGCTAAAGGAACY			
11248	T	A	S	ACAGGTTCCTTTAGCAGCCAACTCTGGGGTCCTTTCCCAGCACAGATGTC			
11248	T	G	S	ACAGGTTCCTTTAGCAGCCGACTCTGGGGTCCTTTCCCAGCACAGATGTC			

FIGURE 129B

				TTGTCATAGGCAGTTGTGGCTGCGTCTCTTCCTCTGTGAATACAGGTTCCTTTAGCAGCC[AG]ACTCTGGGGTCCTTTCCCAGCACAGATGTCCAGAGAGAGGCA			
11248	IS	[AG]		CACGGTGGCTGTGGGCCT		ctg16291	9
11265	I		A	TCTGACAACTGTCCCCCACTCCCGCT			
11265	P	C	A	ATGACGTGGCAGACCGTGCCCAGTGCCY			
11265	P	A	A	CGCGCCGAGGAGTGCCCAGTGCCY			
11265	T	C	A	GTCGGGCACTGGGCACGGCGGGAGTGGGGGACAGTTGTCAGAGC			
11265	T	A	A	GTCGGGCACTGGGCACTGCGGGAGTGGGGGACAGTTGTCAGAGC			
				CTGCCCCCTGTAGCCAGGGCATGTGTGGGGACCGCTCTGACAACTGTCCCCCACTCCCGC[CA]GTGCCCAGTGCCCGACACCCTGGGGAGTCACTGCCACCCC			
11265	IS	[CA]		GGAGGGCCACCAATTCAAC		ctg16291	9
11270	I		A	CCAGACATACACACACGAGTAAGACGTGCTTTATTGTACATATTAGAAAGTAAT			
11270	P	G	A	ATGACGTGGCAGACGTGATGAGTATCCAAGTTAAGCY			
11270	P	A	A	CGCGCCGAGGATGATGAGTATCCAAGTTAAGCY			
11270	T	G	A	CATTGCTTAACTTGGATACTCATCACTTACTTTCTAATATGTACAATAAAGCACGTCTTACTCGTGTGTGTATGTCTGGGC			
11270	T	A	A	CATTGCTTAACTTGGATACTCATCATTTACTTTCTAATATGTACAATAAAGCACGTCTTACTCGTGTGTGTATGTCTGGGC			
				AAGAAGCCCAGACATACACACACGAGTAAGACGTGCTTTATTGTACATATTAGAAAGTAA[GA]TGATGAGTATCCAAGTTAAGCAATGCACATAACAGCTAAATAAAT			
11270	IS	[GA]		AAAAGTTGATAGGCT		ctg25099	7
11275	I		A	CCCAGCAATACCCAGATAAGGGTCCCAGCT			
11275	P	A	A	CGCGCCGAGGAGGAGAGGTCGCTGY			
11275	P	G	A	ATGACGTGGCAGACGGGAGAGGTCGCTGY			
11275	T	A	A	GGGCCAGCGACCTCTCCTGCTGGGACCCTTATCTGGGTATTGCTGGGAG			
11275	T	G	A	GGGCCAGCGACCTCTCCCGCTGGGACCCTTATCTGGGTATTGCTGGGAG			
				AGGGAAGGTGGGTCTGATGGCCATGCCATCTCCCAGCAATACCCAGATAAGGGTCCCAGC[AG]GGAGAGGTCGCTGGCCCCTACATCACCCTTGATATGAGGGC			
11275	IS	[AG]		ACTCACTCATCTCCCTTTG		MULTIPLE	MULTIPLE
11280	I		S	GTACTGTGACCTGCAACCAAGAAGGACCAGTGT			
11280	P	T	S	CGCGCCGAGGATGGAGGAGAGCCACY			
11280	P	C	S	ATGACGTGGCAGACGTGGAGGAGAGCCACY			
11280	T	T	S	GGTGGTGGCTCTCCTCCATCACTGGTCCTTCTTGGTTGCAGGTCACAGTACCC			
11280	T	C	S	GGTGGTGGCTCTCCTCCACCACTGGTCCTTCTTGGTTGCAGGTCACAGTACCC			
				GTATGGTAAGGAGACTGGCATTTCCTCTTTTGTGGCCGTGAGGGTGGTGGCTCTCCTCCA[TC]CACTGGTCCTTCTTGGTTGCAGGTCACAGTACCCTCAGCCCA			
11280	IS	[TC]		AGCTGCTGGAGCACAGGT		ctg16291	9
11282	I		S	GTGATTCTTTCAGTTATGTGCCGCAACGGTACGAA			
11282	P	G	S	ATGACGTGGCAGACCGAGCTTTCTAGTTCACAGY			
11282	P	A	S	CGCGCCGAGGTGAGCTTTCTAGTTCACAGAY			
11282	T	G	S	TAGCTCTGTGAACTAGAAAGCTCGTCGTACCGTTGCGGCACATAACTGAAAGAATCACAT			
11282	T	A	S	TAGCTCTGTGAACTAGAAAGCTCATCGTACCGTTGCGGCACATAACTGAAAGAATCACAT			
				GTGCTCGAATTCTTTGGAGACTTTTGTGGCATCTTTATAGCTCTGTGAACTAGAAAGCTC[GA]TCGTACCGTTGCGGCACATAACTGAAAGAATCACATCAGTGGG			
11282	IS	[GA]		AATTTAGCTGCTTGATG		ctg16114	X
11296	I		A	ACAAGCCTCCCCTGTCACAAAAGACATCTCCAC			
11296	P	A	A	CGCGCCGAGGATGATTGCACAGCACAGY			
11296	P	T	A	ATGACGTGGCAGACTTGATTGCACAGCACAGY			
11296	T	A	A	ACAACTGTGCTGTGCAATCATTGGAGATGTCTTTTGTGACAGGGGAGGCTTGTAA			
11296	T	T	A	ACAACTGTGCTGTGCAATCAATGGAGATGTCTTTTGTGACAGGGGAGGCTTGTAA			
				AAATGCTTGAGCTGGCTAGGAAGTCCTTACAAGCCTCCCCTGTCACAAAAGACATCTCCA[AT]TGATTGCACAGCACAGTTGTTCAGAAGAAAGGGCCTGCTCTTA			
11296	IS	[AT]		TCACTTCTAAAGGGTTT		ctg14243	19
11302	I		S	CCAGCATTGTGGTGTTATATAGAACACTCTCCTGCTACTCTCA			
11302	P	A	S	CGCGCCGAGGTGATCTCTTGGGTCTGAGY			
11302	P	G	S	ATGACGTGGCAGACCGATCTCTTGGGTCTGAY			
11302	T	A	S	AGTCCTCAGACCCAAGAGATCAGAGAGTAGCAGGAGAGTGTTCTATATAACACCACAATGCTGGAG			
11302	T	G	S	AGTCCTCAGACCCAAGAGATCGGAGAGTAGCAGGAGAGTGTTCTATATAACACCACAATGCTGGAG			
				TGGCCCGGAGTCAGGACCCTGGGCTTGGGGCTTCTCCAGAGTCCTCAGACCCAAGAGATC[AG]GAGAGTAGCAGGAGAGTGTTCTATATAACACCACAATGCTG			
11302	IS	[AG]		GAGAGCGTATTGGGTGGGG		ctg14243	19
11303	I		S	GAGCATTTGGGAAAACTGGGCCTTTAGTGTCTGAAAT			
11303	P	C	S	ATGACGTGGCAGACGGATCAGAGCGCTTTATAAY			
11303	P	T	S	CGCGCCGAGGAGATCAGAGCGCTTTATAAGY			
11303	T	C	S	ATCACTTATAAAGCGCTCTGATCCTTTCAGACACTAAAGGCCCAGTTTTCCCAAATGCTCCA			
11303	T	T	S	ATCACTTATAAAGCGCTCTGATCTTTTCAGACACTAAAGGCCCAGTTTTCCCAAATGCTCCA			
				TAGAGACCCAGCTGCTCAGGATGATATTCCAGGTGCAATCACTTATAAAGCGCTCTGATC[CT]TTTCAGACACTAAAGGCCCAGTTTTCCCAAATGCTCCAGCTGT			
11303	IS	[CT]		GAACCATCTCTGAGCCT		ctg14243	19
11360	I		S	GTCACAGTGACTAGGGAACCTTGGAGGATTGTGAAGT			
11360	P	G	S	CGCGCCGAGGCGGCTGGCCATGGY			
11360	P	C	S	ATGACGTGGCAGACGGGCTGGCCATGGY			
11360	T	G	S	AACCCCATGGCCAGCCGCTTCACAATCCTCCAAGGTTCCCTAGTCACTGTGACAG			
11360	T	C	S	AACCCCATGGCCAGCCCCTTCACAATCCTCCAAGGTTCCCTAGTCACTGTGACAG			
				TCTGGGGAAGTGAGGACCACCATCAGCTGAAGCAGCCCATCATCAACCCCATGGCCAGCC[GC]CTTCACAATCCTCCAAGGTTCCCTAGTCACTGTGACAGCCTC			
11360	IS	[GC]		TAGGACAGTACCCTCAGA		ctg15944	11
11583	I		S	GTGTGCTTTTGTCTAAAGCGCTCATTGAGTTGCCA			
11583	P	G	S	ATGACGTGGCAGACCGTGCGTCCTCCAY			
11583	P	A	S	CGCGCCGAGGTGTGCGTCCTCCACY			
11583	T	G	S	TTGTGTGGAGGACGCACGGGCAACTCAATGAGCGCTTTAGACAAAAGCACACCT			
11583	T	A	S	TTGTGTGGAGGACGCACAGGCAACTCAATGAGCGCTTTAGACAAAAGCACACCT			
				CACCCCAAAGTCTGAGACTCTCCTGGGACTCACAGGCAGCCTTTTGTGTGGAGGACGCAC[GA]GGCAACTCAATGAGCGCTTTAGACAAAAGCACACCTCTGAAC			
11583	IS	[GA]		ACAACTGAAAGACTTTAT		ctg13740	5
11593	I		A	CCAACAGTCGTGTCCAGAGACCTACTTTGTAACACCC			
11593	P	G	A	ATGACGTGGCAGACGCAGGGAAGTTAATGTACTAGY			
11593	P	T	A	CGCGCCGAGGTCAGGGAAGTTAATGTACTAGY			
11593	T	G	A	AGACCTAGTACATTAACTTCCCTGCGGTGTTACAAAGTAGGTCTCTGGACACGACTGTTGGAA			
11593	T	T	A	AGACCTAGTACATTAACTTCCCTGAGGTGTTACAAAGTAGGTCTCTGGACACGACTGTTGGAA			
				ATACTTAGCGAGGATCATTACTTTCCAACAGTCGTGTCCAGAGACCTACTTTGTAACACC[GT]CAGGGAAGTTAATGTACTAGGTCTTGAAAGGTCTTTCTGGAATG			
11593	IS	[GT]		TGCAGTAACTTGTAGT		ctg15064	7
11614	I		S	GTGGTAGAAGACATTATTGTGGTAAGTCTTCCTTTGTGCATCCT			
11614	P	C	S	ATGACGTGGCAGACGTCTCTCACTGTTAAAACTCAY			
11614	P	T	S	CGCGCCGAGGATCTCTCACTGTTAAAACTCATY			
11614	T	C	S	CAACATGAGTTTTAACAGTGAGAGATGGATGCACAAAGGAAGACTTACCACAATAATGTCTTCTACCACCA			
11614	T	T	S	CAACATGAGTTTTAACAGTGAGAGATGGATGCACAAAGGAAGACTTACCACAATAATGTCTTCTACCACCA			
				CCTTGTAGTGTTGCATTAGAACAATAGTTGGCTTTCAACATGAGTTTTAACAGTGAGAGA[CT]GGATGCACAAAGGAAGACTTACCACAATAATGTCTTCTACCACC			
11614	IS	[CT]		AACTGCTCAGCACACG		ctg15064	7
11618	I		A	CAGGCCCTGGACCTGCGGTAGGAAA			
11618	P	C	A	ATGACGTGGCAGACCGGTCAGGAGGACTGY			
11618	P	T	A	CGCGCCGAGGGTGGTCAGGAGGACTGY			
11618	T	C	A	GATGCAGTCCTCCTGACCGTTCCTACCGCAGGTCCAGGGCCTGGG			
11618	T	T	A	GATGCAGTCCTCCTGACCATTCCTACCGCAGGTCCAGGGCCTGGG			
				TGGAGCGCCGCCGCCTGCCTGTGGGGTCCGCGGGCCCAGGCCCTGGACCTGCGGTAGGAA[CT]GGTCAGGAGGACTGCATCAGGCCCGTGAGGCGCTTGCCC			
11618	IS	[CT]		GCCAGCGACTTTCCCTGCAGA		ctg13206	14
11639	I		A	CTGTTGTTAAATGAAAAGGCCCATCTTCCTTTGCA			
11639	P	T	A	CGCGCCGAGGTTCTTCTCAGGCAAAATCTGY			
11639	P	C	A	ATGACGTGGCAGACCTCTTCTCAGGCAAAATCTY			
11639	T	T	A	CTTTCAGATTTTGCCTGAGAAGAAGCAAAGGAAGATGGGCCTTTTCATTTAACAACAGAA			
11639	T	C	A	CTTTCAGATTTTGCCTGAGAAGAGGCAAAGGAAGATGGGCCTTTTCATTTAACAACAGAA			

FIGURE 129B

				GTCTCCAAAAATTTTTTTTAGGATTTCTGTTGTTAAATGAAAAGGCCCATCTTCCTTTGC[TC]TCTTCTCAGGCAAAATCTGAAAGACCTACTCTCATTTTTTTCTTCC		
11639	IS	[TC]		CTTTGGAAAATGCT		
11643	I		A	GGATATAAAAGCCAGGCCTGGTTCCCATCCCT		
11643	P	G	A	ATGACGTGGCAGACGCTGTACGGATTGCAAAY		
11643	P	A	A	CGCGCCGAGGACTGTACGGATTGCAAACY		
11643	T	G	A	GACAGTTTGCAATCCGTACAGCGGGATGGGAACCAGGCCTGGCTTTTATATCCCG		
11643	T	A	A	GACAGTTTGCAATCCGTACAGTGGGATGGGAACCAGGCCTGGCTTTTATATCCCG		
				GAAGGACGTCTGCCGGCTCATAGCAGCCGGGATATAAAAGCCAGGCCTGGTTCCCATCCC[GA]CTGTACGGATTGCAAACTGTCAGAAGATAGCTGTCCTGGGT		
11643	IS	[GA]		GAATGCATCAGAGATGTCT	ctg19247	7
11644	I		A	CTGTTGGCTGGCTCTGGGGCTGGA		
11644	P	T	A	CGCGCCGAGGTCCTGGGAGGCTGGY		
11644	P	C	A	ATGACGTGGCAGACCCCTGGGAGGCTGY		
11644	T	T	A	CCCACCAGCCTCCCAGGACCAGCCCCAGAGCCAGCCAACAGTG		
11644	T	C	A	CCCACCAGCCTCCCAGGGCCAGCCCCAGAGCCAGCCAACAGTG		
				TGGGTGGTGACGGACTCAACCTGGACCCCCCCTGCCACTGTTGGCTGGCTCTGGGGCTGG[TC]CCTGGGAGGCTGGTGGGTGCCCCATGAAGGGCTCACTGGT		
11644	IS	[TC]		CCGGCCTTGGGCTCACATTG	ctg25099	7
11646	I		A	GAAGCAAGAAAAAGCAAGTCGCTTAGGAAGCCAAGTA		
11646	P	T	A	CGCGCCGAGGTCACAGTTTGGATCTTACAGY		
11646	P	C	A	ATGACGTGGCAGACCCACAGTTTGGATCTTACAY		
11646	T	T	A	TACTCTGTAAGATCCAAACTGTGAACTTGGCTTCCTAAGCGACTTGCTTTTTCTTGCTTCAC		
11646	T	C	A	TACTCTGTAAGATCCAAACTGTGGACTTGGCTTCCTAAGCGACTTGCTTTTTCTTGCTTCAC		
				GGGAACCTCACGTGCAAAGGCAGTGAAGCAAGAAAAAGCAAGTCGCTTAGGAAGCCAAGT[TC]CACAGTTTGGATCTTACAGAGTAATAAGAAAGGATCGAAGGC		
11646	IS	[TC]		TGGGGAAAGGTTACATTT	ctg25099	7
11654	I		A	CGTTCCCCAAACACAACACAGCAGCCAA		
11654	P	C	A	ATGACGTGGCAGACCGGGTGCCGGGY		
11654	P	T	A	CGCGCCGAGGTGGGTGCCGGGY		
11654	T	C	A	CCTGCCCGGCACCCGTGGCTGCTGTGTTGTGTTTGGGGAACGGA		
11654	T	T	A	CCTGCCCGGCACCCATGGCTGCTGTGTTGTGTTTGGGGAACGGA		
				CCTTTCACAAGCACACCCCGTGGTGGGGTGCTCCGTTCCCCAAACACAACACAGCAGCCA[CT]GGGTGCCGGGCAGGGTCCTGAGAATATTAGAGCGAGTGGTC		
11654	IS	[CT]		ATCCCCATTTGACTTATGG	ctg18037	7
11674	I		A	GCACATTTCACAAAGGCAGATTTTATTATCAACTTCAGATTGAATATTTT		
11674	P	A	A	CGCGCCGAGGATATTTTCTAATTCCATTTTTAAAAACTTTAGY		
11674	P	G	A	ATGACGTGGCAGACGTATTTTCTAATTCCATTTTTAAAAACTTTAY		
11674	T	A	A	ACACCTAAAGTTTTTAAAAATGGAATTAGAAAATATAAATATTCAATCTGAAGTTGATAATAAAATCTGCCTTTGTGAAATGTGCCA		
11674	T	G	A	ACACCTAAAGTTTTTAAAAATGGAATTAGAAAATACAAATATTCAATCTGAAGTTGATAATAAAATCTGCCTTTGTGAAATGTGCCA		
				AGTAAAAGTTGGCACATTTCACAAAGGCAGATTTTATTATCAACTTCAGATTGAATATTT[AG]TATTTTCTAATTCCATTTTTAAAAACTTTAGGTGTATCTTTTTGTTG		
11674	IS	[AG]		TTTGTTTTGTTTT		
11678	I		A	GTTCTTCCCTGGTGCTGTTCTTGACTTCCCAACT		
11678	P	A	A	CGCGCCGAGGATGACCCTCCTGGAAATY		
11678	P	G	A	ATGACGTGGCAGACGTGACCCTCCTGGAAAY		
11678	T	A	A	TCTGATTTCCAGGAGGGTCATGTTGGGAAGTCAAGAACAGCACCAGGGAAGAACTT		
11678	T	G	A	TCTGATTTCCAGGAGGGTCACGTTGGGAAGTCAAGAACAGCACCAGGGAAGAACTT		
				AGATTACTCATGGCAACTCAATCTGAAGTTCTTCCCTGGTGCTGTTCTTGACTTCCCAAC[AG]TGACCCTCCTGGAAATCAGATGTTTGGATTTGTCTTGGAAGACA		
11678	IS	[AG]		TGTATGGAACCAAAAA	ctg15590	7
11700	I		A	ACACGCAAGTGAACTGTCAGGCAAAAGTCA		
11700	P	C	A	ATGACGTGGCAGACCGGAAACAAACACAGCAY		
11700	P	T	A	CGCGCCGAGGTGGAAACAAACACAGCAAY		
11700	T	C	A	AAGATTGCTGTGTTTGTTTCCGGACTTTTGCCTGACAGTTCACTTGCGTGTAT		
11700	T	T	A	AAGATTGCTGTGTTTGTTTCCAGACTTTTGCCTGACAGTTCACTTGCGTGTAT		
				ACAACTGCAGTTTTAAAGTAACATTAAAAATACACGCAAGTGAACTGTCAGGCAAAAGTC[CT]GGAAACAAACACAGCAATCTTGAAATATTGCCAATAAGCCAAAA		
11700	IS	[CT]		GGAAAATGGTATAAAA	ctg15804	2
11710	I		A	TCCCCACACCCACTCTCATTGCCGACT		
11710	P	G	A	ATGACGTGGCAGACGTCCAGGCAGCTGGY		
11710	P	A	A	CGCGCCGAGGATCCAGGCAGCTGGY		
11710	T	G	A	CTGGCCAGCTGCCTGGACGTCGGCAATGAGAGTGGGTGTGGGGAGA		
11710	T	A	A	CTGGCCAGCTGCCTGGATGTCGGCAATGAGAGTGGGTGTGGGGAGA		
				TGGGTCCTGGCCCTGCCACGGGTCCAAGGTTCTCTCCCCACACCCACTCTCATTGCCGAC[GA]TCCAGGCAGCTGGCCAGGTCTGGGAGCTGTAATGAGCTGTT		
11710	IS	[GA]		GTACGCAAGGTCCATGTAG	ctg14708	2
11718	I		S	TGGTAATGACCTTCGACCACTGCAGGCCTTAC		
11718	P	C	S	ATGACGTGGCAGACGCGCGTGGAAATACAAY		
11718	P	A	S	CGCGCCGAGGTCGCGTGGAAATACAAATY		
11718	T	C	S	CCACATTTGTATTTCCACGCGCTAAGGCCTGCAGTGGTCGAAGGTCATTACCAGA		
11718	T	A	S	CCACATTTGTATTTCCACGCGATAAGGCCTGCAGTGGTCGAAGGTCATTACCAGA		
				TCCCTGGTGAGAGGGTTTCCATGAGAACACAGAGCAACTCCACATTTGTATTTCCACGCG[CA]TAAGGCCTGCAGTGGTCGAAGGTCATTACCAGAGAGCGCCGT		
11718	IS	[CA]		CCTGCTCTGGCAGAGTCT	ctg14708	2
11719	I		A	CTGAGTTCAGCTCGGCCCCAAAAGACATACAA		
11719	P	C	A	ATGACGTGGCAGACCCACCAACCGCCTY		
11719	P	T	A	CGCGCCGAGGTCACCAACCGCCTCY		
11719	T	C	A	CGAGGAGGCGGTTGGTGGTGTATGTCTTTTGGGGCCGAGCTGAACTCAGCA		
11719	T	T	A	CGAGGAGGCGGTTGGTGATGTATGTCTTTTGGGGCCGAGCTGAACTCAGCA		
11719	IS	[CT]		AAGACAGTTTAACCAACTAATTTATAATGCTGAGTTCAGCTCGGCCCCAAAAGACATACA[CT]CACCAACCGCCTCCTCGCGACAGAGCACGACACAAAAGT		
11737	I		A	CATTGTTTCGAGAACGTGATCGCCCTCATCTACCTT		
11737	P	G	A	ATGACGTGGCAGACGGCCTCACTGAGTGAAY		
11737	P	A	A	CGCGCCGAGGAGCCTCACTGAGTGAATAY		
11737	T	G	A	GTCGTATTCACTCAGTGAGGCCAGGTAGATGAGGGCGATCACGTTCTCGAAACAATGGA		
11737	T	A	A	GTCGTATTCACTCAGTGAGGCTAGGTAGATGAGGGCGATCACGTTCTCGAAACAATGGA		
				GAAGTCAGAGCGTAAGAAATGGATCCATTGTTTCGAGAACGTGATCGCCCTCATCTACCT[GA]GCCTCACTGAGTGAATACGACCAGTGCCTGGAGGAGAACAAC		
11737	IS	[GA]		CAGGAGGTGCGCCACCGC	ctg16564	19
11740	I		A	CCAAATTCATAATTTCCAGTCCAGTGGTGTTGGGGGT		
11740	P	G	A	ATGACGTGGCAGACGTGGGGCTTTTGGGY		
11740	P	A	A	CGCGCCGAGGATGGGGCTTTTGGGAY		
11740	T	G	A	CACCTCCCAAAAGCCCCACCCCCCAACACCACTGGACTGGAAATTATGAATTTGGGG		
11740	T	A	A	CACCTCCCAAAAGCCCCATCCCCCAACACCACTGGACTGGAAATTATGAATTTGGGG		
				CTTTGGTCTGAAGTTTGTGTCCCCCCAAATTCATAATTTCCAGTCCAGTGGTGTTGGGGG[GA]TGGGGCTTTTGGGAGGTGATAAGGTCGTGGGGGTGGAGCCC		
11740	IS	[GA]		TTATGAATGGGATTAGTGT	ctg16235	17
11769	I		A	GGCGCGCGCCAGCACACCA		
11769	P	T	A	CGCGCCGAGGTGGCTCATTTTTGTATTTTTAGTAY		
11769	P	C	A	ATGACGTGGCAGACCGGCTCATTTTTGTATTTTTAGTY		
11769	T	T	A	TCTGTACTAAAAATACAAAAATGAGCCAGGTGTGCTGGCGCGCGCCTG		
11769	T	C	A	TCTGTACTAAAAATACAAAAATGAGCCGGGTGTGCTGGCGCGCGCCTG		
				AGCGATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGGTTACAGGCGCGCGCCAGCACACC[TC]GGCTCATTTTTGTATTTTTAGTACAGACGGGGTTTCGCCATG		
11769	IS	[TC]		TTAACCAGGCTGGTCTCC	MULTIPLE	MULTIPLE
11770	I		A	CCCGTCTGCGTTTCCCTGAAGGCACTTT		
11770	P	C	A	ATGACGTGGCAGACCGCTGACAGAAAGGTGY		
11770	P	A	A	CGCGCCGAGGAGCTGACAGAAAGGTGAY		
11770	T	C	A	ACCTTCACCTTTCTGTCAGCGAAGTGCCTTCAGGGAAACGCAGACGGGGA		
11770	T	A	A	ACCTTCACCTTTCTGTCAGCTAAGTGCCTTCAGGGAAACGCAGACGGGGA		

FIGURE 129B

				CTGGCGCCTGCAGCACTGCCCTCCACCCCCGTCCCCGTCTGCGTTTCCCTGAAGGCACTT[CA]GCTGACAGAAAGGTGAAGGTGACTAGGGATAAGAGACTGAC			
11770	IS	[CA]		GGTCGCTAGAGCCACAATG	ctg13420	5	PCDHGC5
11771	I		S	GCTGTGCTGCACCCACGGCCAGT			
11771	P	T	S	CGCGCCGAGGACTGGGAACACTCAGCY			
11771	P	C	S	ATGACGTGGCAGACGCTGGGAACACTCAGY			
11771	T	T	S	GGGGGCTGAGTGTTCCCAGTCTGGCCGTGGGTGCAGCACAGCTG			
11771	T	C	S	GGGGGCTGAGTGTTCCCAGCCTGGCCGTGGGTGCAGCACAGCTG			
				GTGACCAAGGAGCCAGGAGGAGCAGAGCGAGGGAGACGCTGGGGGGCTGAGTGTTCCCAG[TC]CTGGCCGTGGGTGCAGCACAGCTGGGGCATTATCATTCTC			
11771	IS	[TC]		GTCTAGGACAAACACATGCA	ctg13420	5	PCDHGC5
12180	I		A	AAACTAAGCCCTAGAATAGTGGGCTAGCATTTCTCA			
12180	P	C	A	ATGACGTGGCAGACCATATTGTCTGGCCCATCY			
12180	P	T	A	CGCGCCGAGGTATATTGTCTGGCCCATCAY			
12180	T	C	A	GTACTGATGGGCCAGACAATATGGAGAAATGCTAGCCCACTATTCTAGGGCTTAGTTTCT			
12180	T	T	A	GTACTGATGGGCCAGACAATATAGAGAAATGCTAGCCCACTATTCTAGGGCTTAGTTTCT			
				CATGGGACCTGTTATATAGATAGAGAAACTAAGCCCTAGAATAGTGGGCTAGCATTTCT[CT]ATATTGTCTGGCCCATCAGTACCCCAACTGGGATCAAAATCCA			
12180	IS	[CT]		GGCATCTCTCAAAAAAC	MULTIPLE	17	
12188	I		A	CAAGATAACTCGTCTTGGCAAGGGAAACAGGTCTGAT			
12188	P	A	A	CGCGCCGAGGATGTCCTTATCTCCGCTY			
12188	P	G	A	ATGACGTGGCAGACGTGTCCTTATCTCCGCTY			
12188	T	A	A	CAGCAGCGGAGATAAGGACATTCAGACCTGTTTCCCTTGCCAAGACGAGTTATCTTGAC			
12188	T	G	A	CAGCAGCGGAGATAAGGACACTCAGACCTGTTTCCCTTGCCAAGACGAGTTATCTTGAC			
				TGTCATGGAGTCATACTTGCTAGTCAAGATAACTCGTCTTGGCAAGGGAAACAGGTCTGA[AG]TGTCCTTATCTCCGCTGCTGGGAACCCCCTAGGCGCCTTGCC			
12188	IS	[AG]		AAGGCCGCACATGAGGCA			
12194	I		S	GCGGAGACTCACCTGCTGTGCAGAGAAT			
12194	P	C	S	ATGACGTGGCAGACGGTCGAGCTGTTCAGY			
12194	P	T	S	CGCGCCGAGGAGTCGAGCTGTTCAGCY			
12194	T	C	S	AGAGGCTGAACAGCTCGACCTTCTCTGCACAGCAGGTGAGTCTCCGCAT			
12194	T	T	S	AGAGGCTGAACAGCTCGACTTTCTCTGCACAGCAGGTGAGTCTCCGCAT			
				TATATAAATACCAGCTAACAAGAGACTCTTCACCAGATCCCAGAGGCTGAACAGCTCGAC[CT]TTCTCTGCACAGCAGGTGAGTCTCCGCATTGGGAACACCTTAA			
12194	IS	[CT]		TATTCTCCAATAGTTTC	ctg13313	1	
12215	I		A	CAGAAGTGGAAGGGGTCAGTGTGTTCTCTCCTGA			
12215	P	T	A	CGCGCCGAGGTCGCCATGTTTGTGATAATY			
12215	P	C	A	ATGACGTGGCAGACCCGCCATGTTTGTGATAY			
12215	T	T	A	GAAAATTATCACAAACATGGCGACAGGAGAGAACACACTGACCCCTTCCACTTCTGGA			
12215	T	C	A	GAAAATTATCACAAACATGGCGGCAGGAGAGAACACACTGACCCCTTCCACTTCTGGA			
				GGAAGAACAGGGTCTGATTTCTGTCTCCAGAAGTGGAAGGGGTCAGTGTGTTCTCTCCTG[TC]CGCCATGTTTGTGATAATTTTCTCCAGCAACAACAGGAAACCA			
12215	IS	[TC]		ACACAGGAACCCAGGTG	ctg16318	19	
12222	I		A	CTGCCCATGCTGTCTCCTTGCTTCCCT			
12222	P	G	A	ATGACGTGGCAGACGCTCAGCTCGCTCAY			
12222	P	A	A	CGCGCCGAGGACTCAGCTCGCTCAGY			
12222	T	G	A	CCTTCTGAGCGAGCTGAGCGGGAAGCAAGGAGACAGCATGGGCAGGG			
12222	T	A	A	CCTTCTGAGCGAGCTGAGTGGGAAGCAAGGAGACAGCATGGGCAGGG			
				CCTGCCCCGCACCCTTGCCCTGCCCTGCCCTGCCCTGCCCATGCTGTCTCCTTGCTTCCC[GA]CTCAGCTCGCTCAGAAGGGCCCCTCCCAGACAGCGGCCGCG			
12222	IS	[GA]		TCAGCTTCCTGGGCCTGGA			
12246	I		S	CTGAGCACCTGAGATGCAGCAACCAGAGAAA			
12246	P	G	S	ATGACGTGGCAGACCTGAATCCTCCTCTACTGAY			
12246	P	A	S	CGCGCCGAGGTTGAATCCTCCTCTACTGAAY			
12246	T	G	S	CACGTTCAGTAGAGGAGGATTCAGTTCTCTGGTTGCTGCATCTCAGGTGCTCAGTA			
12246	T	A	S	CACGTTCAGTAGAGGAGGATTCAATTCTCTGGTTGCTGCATCTCAGGTGCTCAGTA			
				TGAGCCCTAGCCATGTGAGACCACTGACACTTAATGTCACGTTCAGTAGAGGAGGATTCA[GA]TTCTCTGGTTGCTGCATCTCAGGTGCTCAGTAGCTAGGTCAG			
12246	IS	[GA]		CTGGGAGCTGTCATGGCA	ctg25448	18	
12261	I		A	GGCTGGGCTGACTCCTGGCCTCTAA			
12261	P	T	A	CGCGCCGAGGTTTCTGGGCTCCTGGY			
12261	P	C	A	ATGACGTGGCAGACCTTCTGGGCTCCTGGY			
12261	T	T	A	AAGTCCAGGAGCCCAGAAATAGAGGCCAGGAGTCAGCCCAGCCAC			
12261	T	C	A	AAGTCCAGGAGCCCAGAAGTAGAGGCCAGGAGTCAGCCCAGCCAC			
				AAAAAGAAGGAAACTGTCGGTTACCAGGCTCCTAGTGGCTGGGCTGACTCCTGGCCTCTA[TC]TTCTGGGCTCCTGGACTTTTAGCTCCCCGCTGCACTTACCAG			
12261	IS	[TC]		GGCTCCCTGCCCTAGGGT	ctg15053	16	
12281	I		A	GGCCGCCTCGCAGCAGATTTGTAGTCTT			
12281	P	G	A	ATGACGTGGCAGACGGTTGCTGTCGTTCCY			
12281	P	A	A	CGCGCCGAGGAGTTGCTGTCGTTCCTY			
12281	T	G	A	TTTCAGGAACGACAGCAACCAGACTACAAATCTGCTGCGAGGCGGCCTG			
12281	T	A	A	TTTCAGGAACGACAGCAACTAGACTACAAATCTGCTGCGAGGCGGCCTG			
				CTTTTCTTCAGCCTTGGAGAGGATGGCTTCTCAGGCCGCCTCGCAGCAGATTTGTAGTCT[GA]GTTGCTGTCGTTCCTGAAATAGCCTCTGAAGCTCTGTCCGGG			
12281	IS	[GA]		AAGGGAACCTTGAGTGTG	ctg832	11	
12286	I		S	CCTGTGGGTAGGGGCTCAGGCCCA			
12286	P	G	S	ATGACGTGGCAGACCGGTGCTCATCCCTY			
12286	P	A	S	CGCGCCGAGGTGGTGCTCATCCCTGY			
12286	T	G	S	CACTCAGGGATGAGCACCGGGGCCTGAGCCCCTACCCACAGGGT			
12286	T	A	S	CACTCAGGGATGAGCACCAGGGCCTGAGCCCCTACCCACAGGGT			
				GCTCCCCTCGGGTGGGTCCTGCTGCCTCTGCCTTTACCTGGGCACTCAGGGATGAGCACC[GA]GGGCCTGAGCCCCTACCCACAGGGTACAGCTCTTTTTCTTT			
12286	IS	[GA]		AATAGACAGTATTTTTTTC			
12291	I		A	CTGGAGACTCATTGACCCACTGCTGTACCTTCTTCT			
12291	P	C	A	ATGACGTGGCAGACCTCTCACTCACTGCCCY			
12291	P	A	A	CGCGCCGAGGATCTCACTCACTGCCCY			
12291	T	C	A	CAGTGGGCAGTGAGTGAGAGGAAGAAGGTACAGCAGTGGGTCAATGAGTCTCCAGTG			
12291	T	A	A	CAGTGGGCAGTGAGTGAGATGAAGAAGGTACAGCAGTGGGTCAATGAGTCTCCAGTG			
				GGCCCTGCACAGAGGATGGCGCACACTGGAGACTCATTGACCCACTGCTGTACCTTCTTC[CA]TCTCACTCACTGCCCACTGCGTTTTTCTCTTCCTTGCAGGGG			
12291	IS	[CA]		GCTCCTGCTCCTGTGCCA	ctg15972	16	
12292	I		A	GGATGGCTGTAAAGGCTCAACCTCCCCCA			
12292	P	C	A	ATGACGTGGCAGACCCAACGCCTCATCTCTY			
12292	P	T	A	CGCGCCGAGGTCAACGCCTCATCTCTY			
12292	T	C	A	AGGCAGAGATGAGGCGTTGAGGGGGAGGTTGAGCCTTTACAGCCATCCAC			
12292	T	T	A	AGGCAGAGATGAGGCGTTGAGGGGGAGGTTGAGCCTTTACAGCCATCCAC			
				CCCACAGCCCGCCAGTGCTGCCATCGCTCTGTGGATGGCTGTAAAGGCTCAACCTCCCCC[CT]CAACGCCTCATCTCTGCCTTCACCCTCAGCGCCCTTCGGTCC			
12292	IS	[CT]		ACACCCAGCACAGCGGCC	ctg21fin5	21	
12293	I		A	CATGCACATGGCCTGTGCTGCGATACCT			
12293	P	G	A	ATGACGTGGCAGACGGTGCTCTGTGAGTGGY			
12293	P	A	A	CGCGCCGAGGAGTGCTCTGTGAGTGGY			
12293	T	G	A	CCAGCCACTCACAGAGCACCGGTATCGCAGCACAGGCCATGTGCATGGC			
12293	T	A	A	CCAGCCACTCACAGAGCACTGGTATCGCAGCACAGGCCATGTGCATGGC			
				CTCGGCAGGCTCACTGTGGAGCTGTGTTGCAGCCATGCACATGGCCTGTGCTGCGATACC[GA]GTGCTCTGTGAGTGGCTGGTGTCTGCTCCTGCGTGCCCCAC			
12293	IS	[GA]		ATGGTGGCCAGTGGGGACT	ctg21fin5	21	
12296	I		A	GTCCGTTGACAATTGACACAAACACATGCCTCTGTCA			
12296	P	C	A	ATGACGTGGCAGACCGCTGACGGAAACCY			
12296	P	T	A	CGCGCCGAGGTGCTGACGGAAACCAY			
12296	T	C	A	TTCATGGTTTCCGTCAGCGGACAGAGGCATGTGTTTGTGTCAATTGTCAACGGACTT			
12296	T	T	A	TTCATGGTTTCCGTCAGCAGACAGAGGCATGTGTTTGTGTCAATTGTCAACGGACTT			

FIGURE 129B

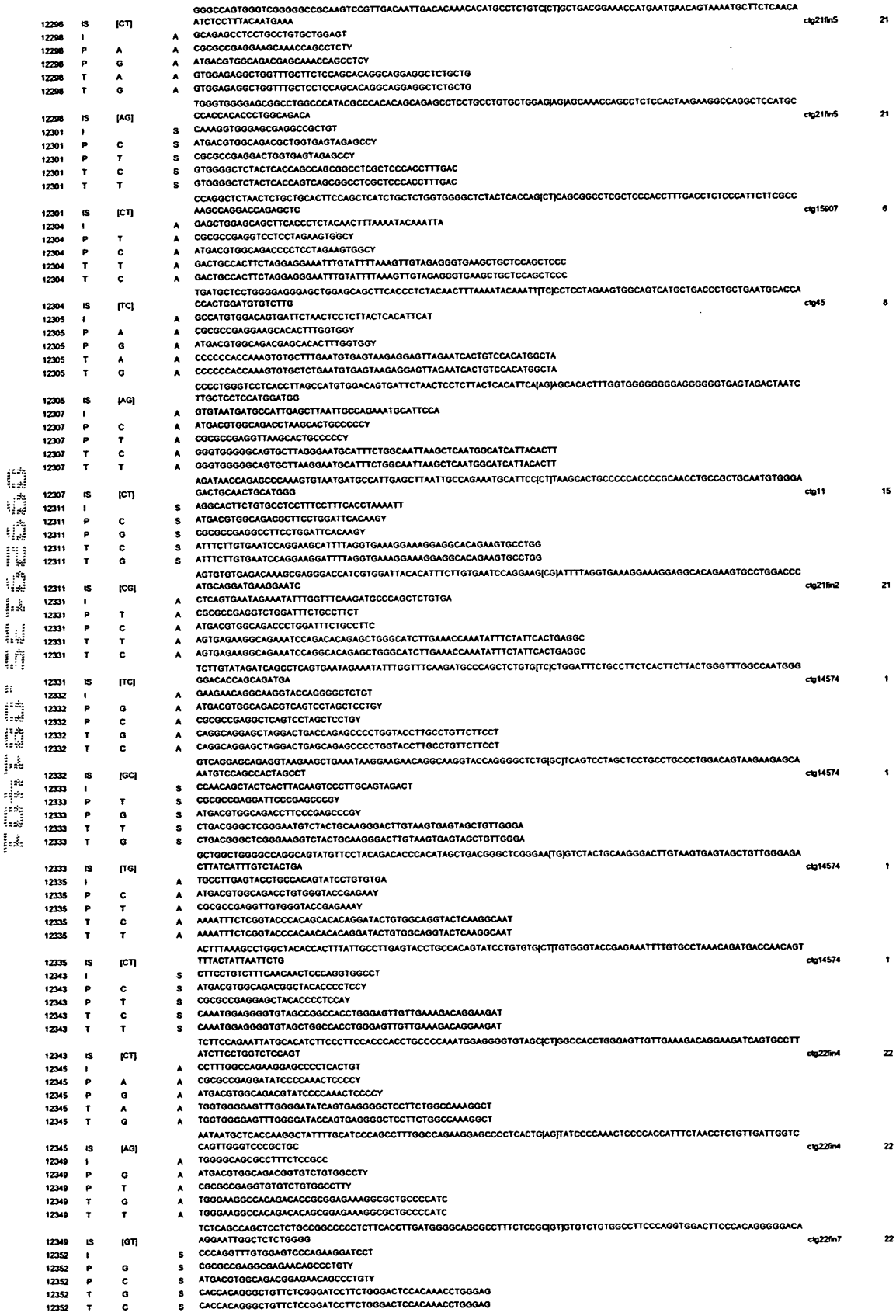

GGGCCAGTGGGTCGGGGGCCGCAAGTCCGTTGACAATTGACACAAACACATGCCTCTGTC[CT]GCTGACGGAAACCATGAATGAACAGTAAAATGCTTCTCAACA
12296 IS [CT] ATCTCCTTTACAATGAAA ctg21fin5 21
12298 I A GCAGAGCCTCCTGCCTGTGCTGGAGT
12298 P A A CGCGCCGAGGAAGCAAACCAGCCTCTY
12298 P G A ATGACGTGGCAGACGAGCAAACCAGCCTCY
12298 T A A GTGGAGAGGCTGGTTTGCTTCTCCAGCACAGGCAGGAGGCTCTGCTG
12298 T G A GTGGAGAGGCTGGTTTGCTCCTCCAGCACAGGCAGGAGGCTCTGCTG
TGGGTGGGGAGCGGCCTGGCCCATACGCCCACACAGCAGAGCCTCCTGCCTGTGCTGGAG[AG]AGCAAACCAGCCTCTCCACTAAGAAGGCCAGGCTCCATGC
12298 IS [AG] CCACCACACCCTGGCAGACA ctg21fin5 21
12301 I S CAAAGGTGGGAGCGAGGCCGCTGT
12301 P C S ATGACGTGGCAGACGCTGGTGAGTAGAGCCY
12301 P T S CGCGCCGAGGACTGGTGAGTAGAGCCY
12301 T C S GTGGGGCTCTACTCACCAGCCAGCGGCCTCGCTCCCACCTTTGAC
12301 T T S GTGGGGCTCTACTCACCAGTCAGCGGCCTCGCTCCCACCTTTGAC
CCAGGCTCTAACTCTGCTGCACTTCCAGCTCATCTGCTCTGGTGGGGCTCTACTCACCAG[CT]CAGCGGCCTCGCTCCCACCTTTGACCTCTCCCATTCTTCGCC
12301 IS [CT] AAGCCAGGACCAGAGCTC ctg15907 6
12304 I A GAGCTGGAGCAGCTTCACCCTCTACAACTTTAAAATACAAATTA
12304 P T A CGCGCCGAGGTCCTCCTAGAAGTGGCY
12304 P C A ATGACGTGGCAGACCCCTCCTAGAAGTGGCY
12304 T T A GACTGCCACTTCTAGGAGGAAATTTGTATTTTAAAGTTGTAGAGGGTGAAGCTGCTCCAGCTCCC
12304 T C A GACTGCCACTTCTAGGAGGGAATTTGTATTTTAAAGTTGTAGAGGGTGAAGCTGCTCCAGCTCCC
TGATGCTCCTGGGGAGGGAGCTGGAGCAGCTTCACCCTCTACAACTTTAAAATACAAATT[TC]CCTCCTAGAAGTGGCAGTCATGCTGACCCTGCTGAATGCACCA
12304 IS [TC] CCACTGGATGTGTCTTG ctg45 8
12305 I A GCCATGTGGACAGTGATTCTAACTCCTCTTACTCACATTCAT
12305 P A A CGCGCCGAGGAAGCACACTTTGGTGGY
12305 P G A ATGACGTGGCAGACGAGCACACTTTGGTGGY
12305 T A A CCCCCCACCAAAGTGTGCTTTGAATGTGAGTAAGAGGAGTTAGAATCACTGTCCACATGGCTA
12305 T G A CCCCCCACCAAAGTGTGCTCTGAATGTGAGTAAGAGGAGTTAGAATCACTGTCCACATGGCTA
CCCCTGGGTCCTCACCTTAGCCATGTGGACAGTGATTCTAACTCCTCTTACTCACATTCA[AG]AGCACACTTTGGTGGGGGGGGAGGGGGGTGAGTAGACTAATC
12305 IS [AG] TTGCTCCTCCATGGATGG
12307 I A GTGTAATGATGCCATTGAGCTTAATTGCCAGAAATGCATTCCA
12307 P C A ATGACGTGGCAGACCTAAGCACTGCCCCCY
12307 P T A CGCGCCGAGGTTAAGCACTGCCCCCY
12307 T C A GGGTGGGGGCAGTGCTTAGGGAATGCATTTCTGGCAATTAAGCTCAATGGCATCATTACACTT
12307 T T A GGGTGGGGGCAGTGCTTAAGGAATGCATTTCTGGCAATTAAGCTCAATGGCATCATTACACTT
AGATAACCAGAGCCCAAAGTGTAATGATGCCATTGAGCTTAATTGCCAGAAATGCATTCC[CT]TAAGCACTGCCCCCACCCCGCAACCTGCCGCTGCAATGTGGGA
12307 IS [CT] GACTGCAACTGCATGGG ctg11 15
12311 I S AGGCACTTCTGTGCCTCCTTTCCTTTCACCTAAAATT
12311 P C S ATGACGTGGCAGACGCTTCCTGGATTCACAAGY
12311 P G S CGCGCCGAGGCCTTCCTGGATTCACAAGY
12311 T C S ATTTCTTGTGAATCCAGGAAGCATTTTAGGTGAAAGGAAAGGAGGCACAGAAGTGCCTGG
12311 T G S ATTTCTTGTGAATCCAGGAAGGATTTTAGGTGAAAGGAAAGGAGGCACAGAAGTGCCTGG
AGTGTGTGAGACAAAGCGAGGGACCATCGTGGATTACACATTTCTTGTGAATCCAGGAAG[CG]ATTTTAGGTGAAAGGAAAGGAGGCACAGAAGTGCCTGGACCC
12311 IS [CG] ATGCAGGATGAAGGAATC ctg21fin2 21
12331 I A CTCAGTGAATAGAAATATTTGGTTTCAAGATGCCCAGCTCTGTGA
12331 P T A CGCGCCGAGGTCTGGATTTCTGCCTTCT
12331 P C A ATGACGTGGCAGACCCTGGATTTCTGCCTTC
12331 T T A AGTGAGAAGGCAGAAATCCAGACACAGAGCTGGGCATCTTGAAACCAAATATTTCTATTCACTGAGGC
12331 T C A AGTGAGAAGGCAGAAATCCAGGCACAGAGCTGGGCATCTTGAAACCAAATATTTCTATTCACTGAGGC
TCTTGTATAGATCAGCCTCAGTGAATAGAAATATTTGGTTTCAAGATGCCCAGCTCTGTG[TC]CTGGATTTCTGCCTTCTCACTTCTTACTGGGTTTGGCCAATGGG
12331 IS [TC] GGACACCAGCAGATGA ctg14574 1
12332 I A GAAGAACAGGCAAGGTACCAGGGGCTCTGT
12332 P G A ATGACGTGGCAGACGTCAGTCCTAGCTCCTGY
12332 P C A CGCGCCGAGGCTCAGTCCTAGCTCCTGY
12332 T G A CAGGCAGGAGCTAGGACTGACCAGAGCCCCTGGTACCTTGCCTGTTCTTCCT
12332 T C A CAGGCAGGAGCTAGGACTGAGCAGAGCCCCTGGTACCTTGCCTGTTCTTCCT
GTCAGGAGCAGAGGTAAGAAGCTGAAATAAGGAAGAACAGGCAAGGTACCAGGGGCTCTG[GC]TCAGTCCTAGCTCCTGCCTGCCCTGGACAGTAAGAAGAGCA
12332 IS [GC] AATGTCCAGCCACTAGCCT ctg14574 1
12333 I S CCAACAGCTACTCACTTACAAGTCCCTTGCAGTAGACT
12333 P T S CGCGCCGAGGATTCCCGAGCCCGY
12333 P G S ATGACGTGGCAGACCTTCCCGAGCCCGY
12333 T T S CTGACGGGCTCGGGAATGTCTACTGCAAGGGACTTGTAAGTGAGTAGCTGTTGGGA
12333 T G S CTGACGGGCTCGGGAAGGTCTACTGCAAGGGACTTGTAAGTGAGTAGCTGTTGGGA
GCTGGCTGGGGCCAGGCAGTATGTTCCTACAGACACCCACATAGCTGACGGGCTCGGGAA[TG]GTCTACTGCAAGGGACTTGTAAGTGAGTAGCTGTTGGGAGA
12333 IS [TG] CTTATCATTTGTCTACTGA ctg14574 1
12335 I A TGCCTTGAGTACCTGCCACAGTATCCTGTGTGA
12335 P C A ATGACGTGGCAGACCTGTGGGTACCGAGAAY
12335 P T A CGCGCCGAGGTTGTGGGTACCGAGAAAY
12335 T C A AAAATTTCTCGGTACCCACAGCACACAGGATACTGTGGCAGGTACTCAAGGCAAT
12335 T T A AAAATTTCTCGGTACCCACAACACACAGGATACTGTGGCAGGTACTCAAGGCAAT
ACTTTAAAGCCTGGCTACACCACTTTATTGCCTTGAGTACCTGCCACAGTATCCTGTGTG[CT]TGTGGGTACCGAGAAATTTTGTGCCTAAACAGATGACCAACAGT
12335 IS [CT] TTTACTATTAATTCTG ctg14574 1
12343 I S CTTCCTGTCTTTCAACAACTCCCAGGTGGCCT
12343 P C S ATGACGTGGCAGACGGCTACACCCCTCCY
12343 P T S CGCGCCGAGGAGCTACACCCCTCCAY
12343 T C S CAAATGGAGGGGTGTAGCCGGCCACCTGGGAGTTGTTGAAAGACAGGAAGAT
12343 T T S CAAATGGAGGGGTGTAGCTGGCCACCTGGGAGTTGTTGAAAGACAGGAAGAT
TCTTCCAGAATTATGCACATCTTCCCTTCCACCCACCTGCCCCAAATGGAGGGGTGTAGC[CT]GGCCACCTGGGAGTTGTTGAAAGACAGGAAGATCAGTGCCTT
12343 IS [CT] ATCTTCCTGGTCTCCAGT ctg22fin4 22
12345 I A CCTTTGGCCAGAAGGAGCCCCTCACTGT
12345 P A A CGCGCCGAGGATATCCCCAAACTCCCCY
12345 P G A ATGACGTGGCAGACGTATCCCCAAACTCCCCY
12345 T A A TGGTGGGGAGTTTGGGGATATCAGTGAGGGGCTCCTTCTGGCCAAAGGCT
12345 T G A TGGTGGGGAGTTTGGGGATACCAGTGAGGGGCTCCTTCTGGCCAAAGGCT
AATAATGCTCACCAAGGCTATTTTGCATCCCAGCCTTTGGCCAGAAGGAGCCCCTCACTG[AG]TATCCCCAAACTCCCCACCATTTCTAACCTCTGTTGATTGGTC
12345 IS [AG] CAGTTGGGTCCCGCTGC ctg22fin4 22
12349 I A TGGGGCAGCGCCTTTCTCCGCC
12349 P G A ATGACGTGGCAGACGGTGTCTGTGGCCTY
12349 P T A CGCGCCGAGGTGTGTCTGTGGCCTTY
12349 T G A TGGGAAGGCCACAGACACCGCGGAGAAAGGCGCTGCCCCATC
12349 T T A TGGGAAGGCCACAGACACAGCGGAGAAAGGCGCTGCCCCATC
TCTCAGCCAGCTCCTCTGCCGGCCCCCTCTTCACCTTGATGGGGCAGCGCCTTTCTCCGC[GT]GTGTCTGTGGCCTTCCCAGGTGGACTTCCCACAGGGGGACA
12349 IS [GT] AGGAATTGGCTCTCTGGGG ctg22fin7 22
12352 I S CCCAGGTTTGTGGAGTCCCAGAAGGATCCT
12352 P G S CGCGCCGAGGCGAGAACAGCCCTGTY
12352 P C S ATGACGTGGCAGACGGAGAACAGCCCTGTY
12352 T G S CACCACAGGGCTGTTCTCGGGATCCTTCTGGGACTCCACAAACCTGGGAG
12352 T C S CACCACAGGGCTGTTCTCCGGATCCTTCTGGGACTCCACAAACCTGGGAG

FIGURE 129B

				CCCATCTAGTGAGCTGCAGCCGGGACCCCCATTGAGCCAAAGCACCACAGGGCTGTTCTC[GC]GGATCCTTCTGGGACTCCACAAACCTGGGAGGGGGGTCAG		
12352	IS	[GC]		GGCAGGGTTGGCGCAGTTGG	ctg15665	20
12354	I		S	GCACTTACCTATTTCCATGGTATAAATACTCTCCAATACCATCT		
12354	P	C	S	ATGACGTGGCAGACGCCAATTTCAAGCTATCAGY		
12354	P	T	S	CGCGCCGAGGACCAATTTCAAGCTATCAGTY		
12354	T	C	S	TCACACTGATAGCTTGAAATTGGCGATGGTATTGGAGAGTATTTATACCATGGAAATAGGTAAGTGCTA		
12354	T	T	S	TCACACTGATAGCTTGAAATTGGTGATGGTATTGGAGAGTATTTATACCATGGAAATAGGTAAGTGCTA		
				TTGTGTGCATCTCTTCCTAATTCTGTGTTCAGTGACTTCACACTGATAGCTTGAAATTGG[CT]GATGGTATTGGAGAGTATTTATACCATGGAAATAGGTAAGTGCT		
12354	IS	[CT]		ACAAATCAGGAGAGCC	ctg15361	6
12355	I		A	CTCTGTGATGTTTGCCGTATTTCTCTACTGTTAATTACTTGAGTGTTTTCAA		
12355	P	T	A	CGCGCCGAGGTGAAATTCACTTTTTTTTGTCCTY		
12355	P	C	A	ATGACGTGGCAGACCGAAATTCACTTTTTTTTGTCCY		
12355	T	T	A	ATTTAGGACAAAAAAAAGTGAATTTCATGAAAACACTCAAGTAATTAACAGTAGAGAAATACGGCAAACATCACAGAGGT		
12355	T	C	A	ATTTAGGACAAAAAAAAGTGAATTTCGTGAAAACACTCAAGTAATTAACAGTAGAGAAATACGGCAAACATCACAGAGGT		
				TGTTACCACCTCTGTGATGTTTGCCGTATTTCTCTACTGTTAATTACTTGAGTGTTTTCA[TC]GAAATTCACTTTTTTTTGTCCTAAATAAAAACATCTGCGAAATCAC		
12355	IS	[TC]		CAGTTTGGTATTCC	ctg15361	6
12356	I		A	GGTCACCTCGCTCGACCACGCCT		
12356	P	G	A	ATGACGTGGCAGACGCCTCCTAGCCCCY		
12356	P	A	A	CGCGCCGAGGACCTCCTAGCCCCTY		
12356	T	G	A	GGCGAGGGGCTAGGAGGCGGCGTGGTCGAGCGAGGTGACCTG		
12356	T	A	A	GGCGAGGGGCTAGGAGGTGGCGTGGTCGAGCGAGGTGACCTG		
				CCATGATCACGCGGGACCGTGACCTCATTTCCCTCGCAGGTCACCTCGCTCGACCACGCC[GA]CCTCCTAGCCCCTCGCCTGCCGTCCGCGTTTAGTGAGCAAT		
12356	IS	[GA]		CCCTCACACCTCCGACCAT	ctg16955	1
12359	I		S	CCTCCAGGAACATGCCCCCTGATGCA		
12359	P	A	S	CGCGCCGAGGTGTCATGAGCTCTGGGY		
12359	P	G	S	ATGACGTGGCAGACCGTCATGAGCTCTGGGY		
12359	T	A	S	CAAACCCAGAGCTCATGACAGCATCAGGGGGCATGTTCCTGGAGGGC		
12359	T	G	S	CAAACCCAGAGCTCATGACGGCATCAGGGGGCATGTTCCTGGAGGGC		
				TGTACTGTACTGGAGCTATGATACATAACCGTGAAGCTGTGCAAACCCAGAGCTCATGAC[AG]GCATCAGGGGGCATGTTCCTGGAGGGCACAGGGCTGGAAATC		
12359	IS	[AG]		TTCATGGGGCCCCACAGT	ctg16128	1
12360	I		S	CCCTTCTGCCAGGCTGGGCAA		
12360	P	A	S	CGCGCCGAGGTGGTGGCTCACACCY		
12360	P	G	S	ATGACGTGGCAGACCGGTGGCTCACACCY		
12360	T	A	S	AACAGGTGTGAGCCACCATGCCCAGCCTGGCAGAAGGGTA		
12360	T	G	S	AACAGGTGTGAGCCACCGTGCCCAGCCTGGCAGAAGGGTA		
				GCTCAAGCAATTCTCCTGTCTTGGCCACCCAAAGTGCTCGGATAACAGGTGTGAGCCACC[AG]TGCCCAGCCTGGCAGAAGGGTATTTAAATAAAGGATGAGAAT		
12360	IS	[AG]		CCTGGGGAAGCTTTGGGG	ctg16128	1
12365	I		A	GCCACAGCCAACCTGAACGGGGAGT		
12365	P	A	A	CGCGCCGAGGAGAGTGACAGCGGCY		
12365	P	G	A	ATGACGTGGCAGACGGAGTGACAGCGGCY		
12365	T	A	A	CCTCGCCGCTGTCACTCTCTCCCCGTTCAGGTTGGCTGTGGCTG		
12365	T	G	A	CCTCGCCGCTGTCACTCCCTCCCCGTTCAGGTTGGCTGTGGCTG		
				TGGGGACTCGAGCAGGGGAGCCTGTGTCTGCGGGCAGCCACAGCCAACCTGAACGGGGAG[AG]GAGTGACAGCGGCGAGGGTGGGGGACGGCGGGGACTTG		
12365	IS	[AG]		GCGTAACTTCTTACAGGACTTA	ctg13446	1
12367	I		S	GTGTGGCTTCGTGTCTCTGTGCTGTGTGATA		
12367	P	G	S	ATGACGTGGCAGACCGTGGGTCTTGGCTY		
12367	P	A	S	CGCGCCGAGGTGTGGGTCTTGGCTTY		
12367	T	G	S	CGGGAAGCCAAGACCCACGATCACACAGCACAGAGACACGAAGCCACACAA		
12367	T	A	S	CGGGAAGCCAAGACCCACAATCACACAGCACAGAGACACGAAGCCACACAA		
				GGATATCTCAGAAACCTTCTGCTCCAGCCTCCCTGACAAGCGCGGGAAGCCAAGACCCAC[GA]ATCACACAGCACAGAGACACGAAGCCACACAACCACCAGAGG		
12367	IS	[GA]		AAGGAGAAAGCAGGAGTC	ctg22fin4	22
12371	I		S	ACACTGAAACGCAGTTATCTCATCTCTAAAATGGAGATACTAT		
12371	P	C	S	ATGACGTGGCAGACGTAGAGCTCTCTTCATAATTGTAY		
12371	P	T	S	CGCGCCGAGGATAGAGCTCTCTTCATAATTGTAAY		
12371	T	C	S	ATCCTTACAATTATGAAGAGAGCTCTACTAGTATCTCCATTTTAGAGATGAGATAACTGCGTTTCAGTGTAG		
12371	T	T	S	ATCCTTACAATTATGAAGAGAGCTCTATTAGTATCTCCATTTTAGAGATGAGATAACTGCGTTTCAGTGTAG		
				CTGCTAAGGCTCTGGCATATATTATTTCATTTTATCCTTACAATTATGAAGAGAGCTCTA[CT]TAGTATCTCCATTTTAGAGATGAGATAACTGCGTTTCAGTGTAGT		
12371	IS	[CT]		TAATAACTTTACTAA	ctg13446	1
12373	I		A	CCCCAGCCACTTTACTTAGTGCTTTCTCACTTAAACTTCCC		
12373	P	T	A	CGCGCCGAGGTAATAAGCCATTTGCATCTCAY		
12373	P	A	A	ATGACGTGGCAGACAAATAAGCCATTTGCATCTCY		
12373	T	T	A	TTCATGAGATGCAAATGGCTTATTAGGAAGTTTAAGTGAGAAAGCACTAAGTAAAGTGGCTGGGGGG		
12373	T	A	A	TTCATGAGATGCAAATGGCTTATTTGGAAGTTTAAGTGAGAAAGCACTAAGTAAAGTGGCTGGGGGG		
				GGTGGGGGGACACATTCACCCCCCAGCCACTTTACTTAGTGCTTTCTCACTTAAACTTCC[TA]AATAAGCCATTTGCATCTCATGAATCAGGAAGAAAGGGAGTGC		
12373	IS	[TA]		AGACAGATCAGGGGACT	ctg13980	1
12375	I		A	GAGTAGACACCCCTGTGTCAGTAGTCTTTCTTGGTCTCT		
12375	P	A	A	CGCGCCGAGGACATCTTTTTCTGCACCTGY		
12375	P	G	A	ATGACGTGGCAGACGCATCTTTTTCTGCACCTY		
12375	T	A	A	GAAGCAGGTGCAGAAAAAGATGTGAGACCAAGAAAGACTACTGACACAGGGGTGTCTACTCTT		
12375	T	G	A	GAAGCAGGTGCAGAAAAAGATGCGAGACCAAGAAAGACTACTGACACAGGGGTGTCTACTCTT		
				GTGTGGTCCAGGGAAGCCAAAAGAGTAGACACCCCTGTGTCAGTAGTCTTTCTTGGTCTC[AG]CATCTTTTTCTGCACCTGCTTCCCTCTTTGTTTTCCGTTGCTT		
12375	IS	[AG]		CACTCAACTTAGCTGTA	ctg13980	1
12376	I		S	AAGGAGGAGATCCCTTCTCCAGCCCAGTA		
12376	P	G	S	ATGACGTGGCAGACCCCACTGCCCCTCY		
12376	P	A	S	CGCGCCGAGGTCCACTGCCCCTCY		
12376	T	G	S	TTTGGAGGGGCAGTGGGACTGGGCTGGAGAAGGGATCTCCTCCTTCT		
12376	T	A	S	TTTGGAGGGGCAGTGGAACTGGGCTGGAGAAGGGATCTCCTCCTTCT		
				TTCCGTTGCTTCACTCAACTTAGCTGTACTCTCTGCCTTTGTTCTTTGGAGGGGCAGTGG[GA]ACTGGGCTGGAGAAGGGATCTCCTCCTTCTGCGCTTTTCTGCT		
12376	IS	[GA]		GTGCATTCACGTACTGC	ctg13980	1
12377	I		S	AGCTGAATAGCTAATAAGCGGCCCTTCTAATACTATGCTTACTGTTAT		
12377	P	C	S	ATGACGTGGCAGACGACCCATTTCTATGTAAGAAAGAY		
12377	P	T	S	CGCGCCGAGGAACCCATTTCTATGTAAGAAAGAY		
12377	T	C	S	AGATTCTTTCTTACATAGAAATGGGTCTAACAGTAAGCATAGTATTAGAAGGGCCGCTTATTAGCTATTCAGCTTT		
12377	T	T	S	AGATTCTTTCTTACATAGAAATGGGTTTAACAGTAAGCATAGTATTAGAAGGGCCGCTTATTAGCTATTCAGCTTT		
				GGTTCCTGGTGTTCGTGGACTTCAGTGGTCACCAAGATTCTTTCTTACATAGAAATGGGT[CT]TAACAGTAAGCATAGTATTAGAAGGGCCGCTTATTAGCTATTCA		
12377	IS	[CT]		GCTTTAATATTTCTAA	ctg13980	1
12378	I		S	CACGATCACTGCTGCACCATGTTCCCACA		
12378	P	G	S	ATGACGTGGCAGACCGGATCTTCCTTCCAGAY		
12378	P	A	S	CGCGCCGAGGTGGATCTTCCTTCCAGAAY		
12378	T	G	S	GGTTTTCTGGAAGGAAGATCCGGTGGGAACATGGTGCAGCAGTGATCGTGCC		
12378	T	A	S	GGTTTTCTGGAAGGAAGATCCAGTGGGAACATGGTGCAGCAGTGATCGTGCC		
				CATACCCAGAAGGCACCTTGATGTTTTTACTGATGCCGGGGTTTTCTGGAAGGAAGATCC[GA]GTGGGAACATGGTGCAGCAGTGATCGTGCCGATCTTTGATCT		
12378	IS	[GA]		GCCCCCTGAGCTGGGGGC	ctg13980	1
12379	I		S	GCACGGCAGAGGCTAATGGGTGAGATGTGA		
12379	P	A	S	CGCGCCGAGGTCCCTGGAAGTTGTACCY		
12379	P	G	S	ATGACGTGGCAGACCCCCTGGAAGTTGTACCY		
12379	T	A	S	GCTAGGTACAACTTCCAGGGACACATCTCACCCATTAGCCTCTGCCGTGCGG		
12379	T	G	S	GCTAGGTACAACTTCCAGGGGCACATCTCACCCATTAGCCTCTGCCGTGCGG		

				TTTCCTCTCAAGTGAAGGACCAGAGAGAAATGAGCAGAGGGCTAGGTACAACTTCCAGGG[AG]CACATCTCACCCATTAGCCTCTGCCGTGCGGGAAAGCAGCCC			
12379	IS	[AG]		CACTCTTGCTTCTGTCTT	ctg13980	1	
12381	I		S	CTGGATGGCTGTGAGAGCCGCTCACT			
12381	P	C	S	ATGACGTGGCAGACGCCTCTGTGGACACCY			
12381	P	T	S	CGCGCCGAGGACCTCTGTGGACACCY			
12381	T	C	S	GGCAGGTGTCCACAGAGGCGTGAGCGGCTCTCACAGCCATCCAGCC			
12381	T	T	S	GGCAGGTGTCCACAGAGGTGTGAGCGGCTCTCACAGCCATCCAGCC			
				AGCCCCATCCTGTCACACTGTCCTGTTCTCAGCTGAGATTCAGGCAGGTGTCCACAGAGG[CT]GTGAGCGGCTCTCACAGCCATCCAGCCCCGGCGCAAGCACT			
12381	IS	[CT]		CACAGGGGTGCCGGGCCTT	ctg13516	6	
12389	I		S	CCCAGTCTCCAAACAGATCCCAACACTACGTTTGTTTTTCTATATT			
12389	P	G	S	ATGACGTGGCAGACCCTGATTGTCACACCTGY			
12389	P	T	S	CGCGCCGAGGACTGATTGTCACACCTGY			
12389	T	G	S	CTTCCAGGTGTGACAATCAGGATATAGAAAAACAAACGTAGTGTTGGGATCTGTTTGGAGACTGGGAT			
12389	T	T	S	CTTCCAGGTGTGACAATCAGTATATAGAAAAACAAACGTAGTGTTGGGATCTGTTTGGAGACTGGGAT			
				TGGTCTCATGGCAGTAAGCCTCATGTATACTAAGGAGAGTCTTCCAGGTGTGACAATCAG[GT]ATATAGAAAAACAAACGTAGTGTTGGGATCTGTTTGGAGACTG			
12389	IS	[GT]		GGATGGGAACAAGTTCA	ctg16537	20	DJ971N18.2
12392	I		A	GGGTCCATCCTGACTCATCCTGACCTGTCTA			
12392	P	C	A	ATGACGTGGCAGACCTCCTTTCAGTCCGGGY			
12392	P	T	A	CGCGCCGAGGTTCCTTTCAGTCCGGGY			
12392	T	C	A	AGGTCCCGGACTGAAAGGAGAGACAGGTCAGGATGAGTCAGGATGGACCCCA			
12392	T	T	A	AGGTCCCGGACTGAAAGGAAAGACAGGTCAGGATGAGTCAGGATGGACCCCA			
				TGTGGGAGGGGTAAGAGATCTTAGCTGGTGGGGTCCATCCTGACTCATCCTGACCTGTCT[CT]TCCTTTCAGTCCGGGACCTTTGCAATGGCGTGGACCATGGCT			
12392	IS	[CT]		GTGAGTTCCAGTGTGTGA	ctg15665	20	
12399	I		A	AGAACTAAGAGAAATTGAGCTTGTATTAAACAACGTAGGAACCT			
12399	P	A	A	CGCGCCGAGGATCCTTTCTATGAACACCAACY			
12399	P	G	A	ATGACGTGGCAGACGTCCTTTCTATGAACACCAAY			
12399	T	A	A	TGATGTTGGTGTTCATAGAAAGGATGGTTCCTACGTTGTTTAATACAAGCTCAATTTCTCTTAGTTCTTC			
12399	T	G	A	TGATGTTGGTGTTCATAGAAAGGACGGTTCCTACGTTGTTTAATACAAGCTCAATTTCTCTTAGTTCTTC			
				ATCATGTCTTCAACAGAAGAACTAAGAGAAATTGAGCTTGTATTAAACAACGTAGGAACC[AG]TCCTTTCTATGAACACCAACATCACCCTTCGTTTATGCCTAAGGA			
12399	IS	[AG]		ACAGTCAGAAACCAG	ctg15907	6	
12401	I		S	CTCTGCAGCAGATGTAATTCTGTATCCAGACATGGCAAAA			
12401	P	A	S	CGCGCCGAGGTGCCATCCTCCTTGTTY			
12401	P	G	S	ATGACGTGGCAGACCGCCATCCTCCTTGTY			
12401	T	A	S	CAGAAACAAGGAGGATGGCATTTGCCATGTCTGGATACAGAATTACATCTGCTGCAGAGAG			
12401	T	G	S	CAGAAACAAGGAGGATGGCGTTTGCCATGTCTGGATACAGAATTACATCTGCTGCAGAGAG			
				GTCATGGGGCTCCTCAGCACGCTGTACACTCCTCTGGTCCTCAGAAACAAGGAGGATGGC[AG]TTTGCCATGTCTGGATACAGAATTACATCTGCTGCAGAGAGT			
12401	IS	[AG]		TTGAGGAGGTGTCCATGG	ctg15907	6	
12408	I		A	GCCTCCTGCTATGAATTTTTCAAAGCGTTTTTCAAATCCATTCTTT			
12408	P	A	A	CGCGCCGAGGACCCCTGATCAGCATCY			
12408	P	G	A	ATGACGTGGCAGACGCCCCTGATCAGCAY			
12408	T	A	A	TGGAGATGCTGATCAGGGGTAAGAATGGATTTGAAAAACGCTTTGAAAAATTCATAGCAGGAGGCAA			
12408	T	G	A	TGGAGATGCTGATCAGGGGCAAGAATGGATTTGAAAAACGCTTTGAAAAATTCATAGCAGGAGGCAA			
				GACTCTTTCTCCTTTGCCTCCTGCTATGAATTTTTCAAAGCGTTTTTCAAATCCATTCTT[AG]CCCCTGATCAGCATCTCCATTAGCCAGATAGAAAGTCAAAGAGGT			
12408	IS	[AG]		TTTAAGCTGAGAGAT	MULTIPLE	22	
12412	I		S	CGACCCCCCCTTCTCACCAGTTCCTTTTGA			
12412	P	A	S	CGCGCCGAGGTGCTCCCAGAACGCY			
12412	P	G	S	ATGACGTGGCAGACCGCTCCCAGAACGCY			
12412	T	A	S	TGCTGCGTTCTGGGAGCACAAAAGGAACTGGTGAGAAGGGGGGGTCGGT			
12412	T	G	S	TGCTGCGTTCTGGGAGCGCAAAAGGAACTGGTGAGAAGGGGGGGTCGGT			
				GATTTAAAGAAATACTCGGCGATTCCAATGTAGAGCATGGAGTTGCTGCGTTCTGGGAGC[AG]CAAAAGGAACTGGTGAGAAGGGGGGGTCGGTGAGGTTTTCCA			
12412	IS	[AG]		GTGGGTAGAATACACCCT	ctg22fin4	22	
12415	I		S	CCCTCTTCAGGAGAAGGATCATATGTCTTTGCCCCC			
12415	P	A	S	CGCGCCGAGGTAGGAGTAGGTTTGAGGCY			
12415	P	C	S	ATGACGTGGCAGACGAGGAGTAGGTTTGAGGCY			
12415	T	A	S	CCTAGCCTCAAACCTACTCCTAGGGGCAAAGACATATGATCCTTCTCCTGAAGAGGGCA			
12415	T	C	S	CCTAGCCTCAAACCTACTCCTCGGGGCAAAGACATATGATCCTTCTCCTGAAGAGGGCA			
				TTTAGTTCCAATAAATGCAGACTGCTCTACTTGCTGCCTCCTAGCCTCAAACCTACTCCT[AC]GGGGCAAAGACATATGATCCTTCTCCTGAAGAGGGCAGACATAT			
12415	IS	[AC]		GTTGTACAATACAATC	ctg22fin4	22	
12416	I		A	TGGCACACATGTAGGCACCCCTGCTT			
12416	P	G	A	ATGACGTGGCAGACGGACTTTACCTGTTTCCGY			
12416	P	C	A	CGCGCCGAGGCGACTTTACCTGTTTCCGY			
12416	T	G	A	CTTACGGAAACAGGTAAAGTCCAGCAGGGGTGCCTACATGTGTGCCAGA			
12416	T	C	A	CTTACGGAAACAGGTAAAGTCGAGCAGGGGTGCCTACATGTGTGCCAGA			
				TTTAGCTTGGTGAAGTGAAGTGGGAAACTGGGGTCTGGCACACATGTAGGCACCCCTGCT[GC]GACTTTACCTGTTTCCGTAAGTCCTGAGCCGACCGATGCAGA			
12416	IS	[GC]		GGGGGGTGGTGATGGGTG	ctg15907	6	
12421	I		S	TCTTCTGCACCCCCCTCAGACTCCATCTTA			
12421	P	A	S	CGCGCCGAGGTACATGAGTCTCATCTTTCTTCY			
12421	P	G	S	ATGACGTGGCAGACCACATGAGTCTCATCTTTCTTY			
12421	T	A	S	CCATGAAGAAAGATGAGACTCATGTAAAGATGGAGTCTGAGGGGGGTGCAGAAGACT			
12421	T	G	S	CCATGAAGAAAGATGAGACTCATGTGAAGATGGAGTCTGAGGGGGGTGCAGAAGACT			
				AAATGCTAAGTCAGAAGAGGAGCAGAGCAGTAGCTCCATGAAGAAAGATGAGACTCATGT[AG]AAGATGGAGTCTGAGGGGGGTGCAGAAGACTCTGCTGAGGA			
12421	IS	[AG]		GGGGGACCCACTGGATGAT	ctg13980	1	
12422	I		S	CTCCAGCTGGTCGTCCCCCTGATCTTCATTAC			
12422	P	A	S	CGCGCCGAGGTCATCATCATCCAGTGGGY			
12422	P	T	S	ATGACGTGGCAGACACATCATCATCCAGTGGGY			
12422	T	A	S	GGGACCCACTGGATGATGATGATAATGAAGATCAGGGGGACGACCAGCTGGAGTT			
12422	T	T	S	GGGACCCACTGGATGATGATGTTAATGAAGATCAGGGGGACGACCAGCTGGAGTT			
				TGGAGTCTGAGGGGGGGTGCAGAAGACTCTGCTGAGGAGGGGGACCCACTGGATGATGATG[AT]TAATGAAGATCAGGGGGACGACCAGCTGGAGTTGATCAAG			
12422	IS	[AT]		GATGATGAAAAAGAGGCTGA	MULTIPLE	MULTIPLE	HNRPC
12433	I		S	TCTCCACCACTCACATAAATGAATACTCCAACCAATCTCTCCT			
12433	P	G	S	ATGACGTGGCAGACCTTCTCCAGTGTGTGATACY			
12433	P	T	S	CGCGCCGAGGATTCTCCAGTGTGTGATACTY			
12433	T	G	S	GAAAAGTATCACACACTGGAGAAGGAGAGATTGGTTGGAGTATTCATTTATGTGAGTGGTGGAGAGG			
12433	T	T	S	GAAAAGTATCACACACTGGAGAATGGAGAGATTGGTTGGAGTATTCATTTATGTGAGTGGTGGAGAGG			
				TAATAGATGCTTTCTAAATACTAGATTCCTCTTCTATGAAAAGTATCACACACTGGAGAA[GT]GGAGAGATTGGTTGGAGTATTCATTTATGTGAGTGGTGGAGAGG			
12433	IS	[GT]		GGAGTATATGACATAA	ctg13446	1	
12436	I		S	CTGTTCCTCACTTTCTGAACCTTTACCTGCCTGACTTTACA			
12436	P	A	S	CGCGCCGAGGTCCATACCACTCCAACTCY			
12436	P	G	S	ATGACGTGGCAGACCCCATACCACTCCAACTY			
12436	T	A	S	AAGTGAGTTGGAGTGGTATGGAGTAAAGTCAGGCAGGTAAAGGTTCAGAAAGTGAGGAACAGCG			
12436	T	G	S	AAGTGAGTTGGAGTGGTATGGGGTAAAGTCAGGCAGGTAAAGGTTCAGAAAGTGAGGAACAGCG			
				AGATGGTGAGTTTATTTTTTTCTGCATGGGAAGTGGTTGAAGTGAGTTGGAGTGGTATGG[AG]GTAAAGTCAGGCAGGTAAAGGTTCAGAAAGTGAGGAACAGCG			
12436	IS	[AG]		ATAGCCATGGAGTTTTAT			
12437	I		S	ACATGTGCCTAAGACTGGCTTCACGCACCT			
12437	P	C	S	ATGACGTGGCAGACGTTTCATCTCATCCCTGGY			
12437	P	T	S	CGCGCCGAGGATTTCATCTCATCCCTGGTY			
12437	T	C	S	TGGGACCAGGGATGAGATGAAACGGTGCGTGAAGCCAGTCTTAGGCACATGTCC			
12437	T	T	S	TGGGACCAGGGATGAGATGAAATGGTGCGTGAAGCCAGTCTTAGGCACATGTCC			

FIGURE 129B

				TTCACTGAGAACCTACTATGGGCCATGTCCTTTGTGCTTGGGACCAGGGATGAGATGAAA[CT]GGTGCGTGAAGCCAGTCTTAGGCACATGTCCACTATAGTATAG		
12437	IS	[CT]		TCAAGGTGAGGTTTGCA	ctg13446	1
12438	I		S	GTCTACCCAAGGACACTAGATAGGTTGAGTTCCCTGTGTATAA		
12438	P	A	S	CGCGCCGAGGTGAATGGGTTATCACACATCY		
12438	P	G	S	ATGACGTGGCAGACCGAATGGGTTATCACACATY		
12438	T	A	S	AAGTGATGTGTGATAACCCATTCATATACACAGGGAACTCAACCTATCTAGTGTCCTTGGGTAGACTT		
12438	T	G	S	AAGTGATGTGTGATAACCCATTCGTATACACAGGGAACTCAACCTATCTAGTGTCCTTGGGTAGACTT		
				ATAAACAGTATCATCCAAACATGTTTACCTTTTCTCTAAGTGATGTGTGATAACCCATTC[AG]TATACACAGGGAACTCAACCTATCTAGTGTCCTTGGGTAGACTTT		
12438	IS	[AG]		TTCTTCCTAAGACGC	ctg14250	1
12439	I		A	GCATTTTCAGGGCAATTAATTCTATAAACTTTCCCTTAGTTAGATATGTTTAAATAAATTT		
12439	P	G	A	ATGACGTGGCAGACGTTCTATGGGTGCTTAATTTTAGY		
12439	P	C	A	CGCGCCGAGGCTTCTATGGGTGCTTAATTTTAGY		
12439	T	G	A	TTCACTAAAATTAAGCACCCATAGAACAATTTATTTAAACATATCTAACTAAGGGAAAGTTTATAGAATTAATTGCCCTGAAAATGC		
12439	T	C	A	TTCACTAAAATTAAGCACCCATAGAAGAATTTATTTAAACATATCTAACTAAGGGAAAGTTTATAGAATTAATTGCCCTGAAAATGC		
				GCATTTTCAGGGCAATTAATTCTATAAACTTTCCCTTAGTTAGATATGTTTAAATAAATT[GC]TTCTATGGGTGCTTAATTTTAGTGAAGAGTTAAGTAATTCAAATTT		
12439	IS	[GC]		TAGTACATAATTTT	ctg14250	1
12443	I		S	AGAAGGCCCAGGCCTGGCAAACAGTAT		
12443	P	C	S	ATGACGTGGCAGACGTGAAAGTTCGTCTGGGY		
12443	P	G	S	CGCGCCGAGGCTGAAAGTTCGTCTGGGY		
12443	T	C	S	GTTTCCCAGACGAACTTTCACTACTGTTTGCCAGGCCTGGGCCTTCTCT		
12443	T	G	S	GTTTCCCAGACGAACTTTCAGTACTGTTTGCCAGGCCTGGGCCTTCTCT		
				AGACTGATATTCGTAAAGTGAGCATCATGTGGGTATTGCAGTTTCCCAGACGAACTTTCA[CG]TACTGTTTGCCAGGCCTGGGCCTTCTCTTCCACATAAGAACAA		
12443	IS	[CG]		TCTGACTCCCTGGGTTT	ctg15665	20
12450	I		A	GGATGTCTGCCCTCATAACGCCCAGCTT		
12450	P	G	A	ATGACGTGGCAGACGTCTGGGGTCGAGCY		
12450	P	A	A	CGCGCCGAGGATCTGGGGTCGAGCY		
12450	T	G	A	CTAAGCTCGACCCCAGACAGCTGGGCGTTATGAGGGCAGACATCCTA		
12450	T	A	A	CTAAGCTCGACCCCAGATAGCTGGGCGTTATGAGGGCAGACATCCTA		
				ACAAATGCATCCGATAAATAAACAAAAGCATTAGGATGTCTGCCCTCATAACGCCCAGCT[GA]TCTGGGGTCGAGCTTAGGAAGAACCCGACGCTTCAGTTCTCCC		
12450	IS	[GA]		GCAGGGCATGAGCTCCC	ctg22fin6	22
12455	I		A	TCAAGTCCCAGGATGCCTGATCTGTGAGCTCT		
12455	P	G	A	ATGACGTGGCAGACGGACACTTAACCAGTGCY		
12455	P	A	A	CGCGCCGAGGAGACACTTAACCAGTGCTY		
12455	T	G	A	TCAGAGCACTGGTTAAGTGTCCGAGCTCACAGATCAGGCATCCTGGGACTTGAAT		
12455	T	A	A	TCAGAGCACTGGTTAAGTGTCTGAGCTCACAGATCAGGCATCCTGGGACTTGAAT		
				ACACAGCCAGGAAGTGGCAGGGCCGGGATTCAAGTCCCAGGATGCCTGATCTGTGAGCTC[GA]GACACTTAACCAGTGCTCTGAGATGGCTCAGGCAAGTCTGG		
12455	IS	[GA]		AGCCCCCCTCATCTGACAG	ctg22fin6	22
12456	I		S	GACGCCCTGCCCTTTGCTTGTGTCTA		
12456	P	G	S	ATGACGTGGCAGACCTGGGTTTGATAACAGCCY		
12456	P	A	S	CGCGCCGAGGTTGGGTTTGATAACAGCCY		
12456	T	G	S	TCAGGGCTGTTATCAAACCCAGAGACACAAGCAAAGGGCAGGGCGTCAC		
12456	T	A	S	TCAGGGCTGTTATCAAACCCAAAGACACAAGCAAAGGGCAGGGCGTCAC		
				GACTGCACAATTTTTATCACTTACTTCCAATGAGTGGAGTCAGGGCTGTTATCAAACCCA[GA]AGACACAAGCAAAGGGCAGGGCGTCACGTGGGGGTGGTGAAG		
12456	IS	[GA]		GCTTCTCTGGGGACCCTT	ctg22fin4	22
12459	I		S	CCAATGCAGAGACCCCCCTGGATTCCTA		
12459	P	A	S	CGCGCCGAGGTGGAGCTGATGCCCY		
12459	P	G	S	ATGACGTGGCAGACCGGAGCTGATGCCCY		
12459	T	A	S	CAGTGGGCATCAGCTCCAAGGAATCCAGGGGGGTCTCTGCATTGGGG		
12459	T	G	S	CAGTGGGCATCAGCTCCGAGGAATCCAGGGGGGTCTCTGCATTGGGG		
				GGAAAGCAGCAGACATTCCCAGGGCTGTCCAGTGAGTGGTGTTCAGTGGGCATCAGCTCC[AG]AGGAATCCAGGGGGGTCTCTGCATTGGGGTTTCTCTATTGT		
12459	IS	[AG]		GCCTTCAGAAACCCGATGG	ctg22fin4	22
12460	I		S	TCGGAAGACGCCCCTCTTCCAGGAGAA		
12460	P	A	S	CGCGCCGAGGTAGGTGAGTGGTGCTTTY		
12460	P	G	S	ATGACGTGGCAGACCAGGTGAGTGGTGCTY		
12460	T	A	S	TTGTAAAGCACCACTCACCTATCTCCTGGAAGAGGGGCGTCTTCCGAAA		
12460	T	G	S	TTGTAAAGCACCACTCACCTGTCTCCTGGAAGAGGGGCGTCTTCCGAAA		
				TATGGTCGGAACGAAAGCTGGCTGTGCTTCACCATGGAAGTTGTAAAGCACCACTCACCT[AG]TCTCCTGGAAGAGGGGCGTCTTCCGAAACCAGGTAGCACCAA		
12460	IS	[AG]		AGTCCTATTTACACCCCA	ctg22fin4	22
12464	I		A	CCCCCTGCTCCTCTCCCAGGTGTATTTCT		
12464	P	G	A	ATGACGTGGCAGACGAGCCTCAGTACCACGY		
12464	P	A	A	CGCGCCGAGGAAGCCTCAGTACCACGY		
12464	T	G	A	TCTGCGTGGTACTGAGGCTCGAAATACACCTGGGAGAGGAGCAGGGGGCA		
12464	T	A	A	TCTGCGTGGTACTGAGGCTTGAAATACACCTGGGAGAGGAGCAGGGGGCA		
				TCCTCCTGCTCCCCCTCTCAGAGCATCCCCTGCCCCCTGCTCCTCTCCCAGGTGTATTT[CG]AGCCTCAGTACCACGCAGAAATGTGCTTCCTCTCTTGGTTCTG		
12464	IS	[GA]		TGGCAACCAGCTGCCTG	ctg22fin4	22
12473	I		A	GTTTATTTGTTTGTTTGAAACAAAGAGTCTTGCTTAGTTGCCA		
12473	P	C	A	ATGACGTGGCAGACCAGGCTGGAGTGCAY		
12473	P	T	A	CGCGCCGAGGTAGGCTGGAGTGCAGY		
12473	T	C	A	GCCACTGCACTCCAGCCTGGGCAACTAAGCAAGACTCTTTGTTTCAAACAAACAAATAAACAA		
12473	T	T	A	GCCACTGCACTCCAGCCTAGGCAACTAAGCAAGACTCTTTGTTTCAAACAAACAAATAAACAA		
				CCACCTGGTTCTTTGTTTGTTTATTTGTTTGTTTGAAACAAAGAGTCTTGCTTAGTTGCC[CT]AGGCTGGAGTGCAGTGGCATGATCATGGCTCACTGCAGCCATAA		
12473	IS	[CT]		TCTCCTGGGCTCAAGC	ctg22fin4	22
12476	I		S	GGAGGTGGAGGCTGGCCCGCA		
12476	P	A	S	CGCGCCGAGGTCAGCAGGGACTGTTCY		
12476	P	G	S	ATGACGTGGCAGACCCAGCAGGGACTGTTY		
12476	T	A	S	CTGAGAACAGTCCCTGCTGAGCGGGCCAGCCTCCACCTCCCA		
12476	T	G	S	CTGAGAACAGTCCCTGCTGGGCGGGCCAGCCTCCACCTCCCA		
				GCTTCCAGTGTCTACACCACCTTGTTCAGGTCTGCCTGTCCCTGAGAACAGTCCCTGCTG[AG]GCGGGCCAGCCTCCACCTCCCACAACCCCACCTTCCTCATTG		
12476	IS	[AG]		TGCAGGCCCTGCAGCCCA	ctg22fin10	22
12487	I		S	CGTGGGGTAGTGTTTACCTCCCTATACCTGAGGTTTACC		
12487	P	A	S	CGCGCCGAGGTCATTCTGGCCCAGAAY		
12487	P	C	S	ATGACGTGGCAGACGCATTCTGGCCCAGAY		
12487	T	A	S	TCCCTTCTGGGCCAGAATGAGTAAACCTCAGGTATAGGGAGGTAAACACTACCCCACGCC		
12487	T	C	S	TCCCTTCTGGGCCAGAATGCGTAAACCTCAGGTATAGGGAGGTAAACACTACCCCACGCC		
				TGGTGTTCCCCAAATTGTTCAAGCTGGTATCAATTATCAGTTCCCTTCTGGGCCAGAATG[AC]GTAAACCTCAGGTATAGGGAGGTAAACACTACCCCACGCCTGG		
12487	IS	[AC]		GACCCATGGTAGATGCT	ctg15907	6
12489	I		S	ACGGACCGCCCGGGTCCCA		
12489	P	A	S	CGCGCCGAGGTCAGAGTCTCCGGATCY		
12489	P	G	S	ATGACGTGGCAGACCCAGAGTCTCCGGATCY		
12489	T	A	S	TTCGGATCCGGAGACTCTGAGGGACCCGGGCGGTCCGTGG		
12489	T	G	S	TTCGGATCCGGAGACTCTGGGGGACCCGGGCGGTCCGTGG		
				GGGTGGAGGGTCTGGGCGGGTCCCGCTGCCTCGGGGTAGATTTCGGATCCGGAGACTCTG[AG]GGGACCCGGGCGGTCCGTGGCGGATGGGGGGTGGTCGT		
12489	IS	[AG]		GACCTGCGCCCCCGGCCGGGTT	ctg15907	6
12491	I		A	CAGCTGTTGACAAACGTCCCTGATGGGTTCTA		
12491	P	T	A	CGCGCCGAGGTTTCCCCTGCCTGGY		
12491	P	C	A	ATGACGTGGCAGACCTTCCCCTGCCTGGY		
12491	T	T	A	GTACCCAGGCAGGGGAAAAGAACCCATCAGGGACGTTTGTCAACAGCTGTA		
12491	T	C	A	GTACCCAGGCAGGGGAAGAGAACCCATCAGGGACGTTTGTCAACAGCTGTA		

FIGURE 129B

				CTCACTTCTTTAGGTTTGTGGGAATACTACAGCTGTTGACAAACGTCCCTGATGGGTTCT[TC]TTCCCCTGCCTGGGTACCAGTACCTCATTAATCCTGATGAGAAA			
12491	IS	[TC]		ATGGCTTGTTTTTCTC	ctg15907	6	
12495	I		S	TGCACAGTCTCCTCTCCAGATTCCTGTGAGCA			
12495	P	A	S	CGCGCCGAGGTCCTCCTCCTCCTCCY			
12495	P	G	S	ATGACGTGGCAGACCCCTCCTCCTCCTCCY			
12495	T	A	S	AAGTGGAGGAGGAGGAGGAGCTCACAGGAATCTGGAGAGGAGACTGTGCAAA			
12495	T	G	S	AAGTGGAGGAGGAGGAGGGGCTCACAGGAATCTGGAGAGGAGACTGTGCAAA			
				TACTCTGAGTTCTCTCAGGGGAACTCTGGAAAAGACTCAGTAAAGTGGAGGAGGAGGAGG[AG]GCTCACAGGAATCTGGAGAGGAGACTGTGCAAAACCCTCAAA			
12495	IS	[AG]		AGTTCTCTGAGTTCTCTC	ctg17573	X	MAGEC1
12500	I		A	GCTGCCTCAGCTTCCATGAATAAAACATGAGATT			
12500	P	A	A	CGCGCCGAGGATGCATCTTCAGAGCTACAY			
12500	P	G	A	ATGACGTGGCAGACGTGCATCTTCAGAGCTACY			
12500	T	A	A	CACTTGTAGCTCTGAAGATGCATATCTCATGTTTTATTCATGGAAGCTGAGGCAGCTT			
12500	T	G	A	CACTTGTAGCTCTGAAGATGCACATCTCATGTTTTATTCATGGAAGCTGAGGCAGCTT			
				GAAGACGTTTTTACTCTTATAATTTAAGCTGCCTCAGCTTCCATGAATAAAACATGAGAT[AG]TGCATCTTCAGAGCTACAAGTGCTACTAAGATGTTCTTTTTCCCC			
12500	IS	[AG]		TAGGCCTTATATCAA	ctg16537	20	
12501	I		S	CCTATGAGGAGATATGAGGACATGAGGATTTCTGCACATTCAT			
12501	P	C	S	ATGACGTGGCAGACGGTCAAATCCTTCTTCCTTTY			
12501	P	T	S	CGCGCCGAGGAGTCAAATCCTTCTTCCTTTGY			
12501	T	C	S	TTTTCAAAGGAAGAAGGATTTGACCTGAATGTGCAGAAATCCTCATGTCCTCATATCTCCTCATAGGCA			
12501	T	T	S	TTTTCAAAGGAAGAAGGATTTGACTTGAATGTGCAGAAATCCTCATGTCCTCATATCTCCTCATAGGCA			
				ATTAAAGAGGACACCACAACCTTTAGCCTAAACCTTTTTTCAAAGGAAGAAGGATTTGAC[CT]TGAATGTGCAGAAATCCTCATGTCCTCATATCTCCTCATAGGCAT			
12501	IS	[CT]		TTTAAATCTCCAGCT	ctg15907	6	
12513	I		A	GTGGCTCTACTGTGGGCAGTGACTGCTT			
12513	P	G	A	ATGACGTGGCAGACGTAGTGCCTGTCATTTCTGY			
12513	P	C	A	CGCGCCGAGGCTAGTGCCTGTCATTTCTGY			
12513	T	G	A	CCCTCAGAAATGACAGGCACTACAGCAGTCACTGCCCACAGTAGAGCCACTT			
12513	T	C	A	CCCTCAGAAATGACAGGCACTAGAGCAGTCACTGCCCACAGTAGAGCCACTT			
				ATGCAAAGTATCTACTTAGCATCCAGGTACCAAGTGGCTCTACTGTGGGCAGTGACTGCT[GC]TAGTGCCTGTCATTTCTGAGGGGAAAAGAAAGGTTGCTGCTG			
12513	IS	[GC]		CTTATAAAATAGCCTCTT	ctg12559	6	
12534	I		S	GATGTTTTCATTTTGAGTCTATAAATCTAATTTTGTGGTGGTTTTGTGTATC			
12534	P	A	S	CGCGCCGAGGTGCTCAAGGCTCAAATTGY			
12534	P	C	S	ATGACGTGGCAGACGGCTCAAGGCTCAAATTY			
12534	T	A	S	TTTACAATTTGAGCCTTGAGCAATACACAAAACCACCACAAAATTAGATTTATAGACTCAAAATGAAAACATCAG			
12534	T	C	S	TTTACAATTTGAGCCTTGAGCCATACACAAAACCACCACAAAATTAGATTTATAGACTCAAAATGAAAACATCAG			
				GTTCTGGGTATAACTTTCTTTGGTCACATAATATTAAATTTTACAATTTGAGCCTTGAGC[AC]ATACACAAAACCACCACAAAATTAGATTTATAGACTCAAAATGAAA			
12534	IS	[AC]		ACATCAGCTTACTG	ctg16045	6	
12539	I		A	GCCCACGCCGTGCACCCCA			
12539	P	C	A	ATGACGTGGCAGACCGCACCACCCAGCY			
12539	P	T	A	CGCGCCGAGGTGCACCACCCAGCY			
12539	T	C	A	GAAAGCTGGGTGGTGCGGGGGTGCACGGCGTGGGCAC			
12539	T	T	A	GAAAGCTGGGTGGTGCAGGGGTGCACGGCGTGGGCAC			
				GGAGGGACGCTGCCCTGTGAGCCGACGGAGAGGTCACTCAGTGCCCACGCCGTGCACCCC[CT]GCACCACCCAGCTTTCCAGCAGCACCTCAGGAGGGACCCA			
12539	IS	[CT]		GCTCTGTGGGGACAGCACCC	ctg16829	1	
12547	I		S	TGTCCCTTGAGGAGTTTGCAACATAGAGGGGAAAGATATAAAAAAA			
12547	P	A	S	CGCGCCGAGGTTAACTTTAACTTAAGGCAGAATTAAY			
12547	P	G	S	ATGACGTGGCAGACCTAACTTTAACTTAAGGCAGAATTAAY			
12547	T	A	S	TTATTTAATTCTGCCTTAAGTTAAAGTTAATTTTTTATATCTTTCCCCTCTATGTTGCAAACTCCTCAAGGGACAGG			
12547	T	G	S	TTATTTAATTCTGCCTTAAGTTAAAGTTAGTTTTTTATATCTTTCCCCTCTATGTTGCAAACTCCTCAAGGGACAGG			
				TTTTTTCATTTTTTGCTTTTCTATCTACATTTATTTAATTCTGCCTTAAGTTAAAGTTA[AG]TTTTTTATATCTTTCCCCTCTATGTTGCAAACTCCTCAAGGGACAGG			
12547	IS	[AG]		ACCGTATTATCTT			
12732	I		S	CCCAGGAGGACCCCCAGGGCT			
12732	P	C	S	ATGACGTGGCAGACGCTCATGGCTATGATGGY			
12732	P	T	S	CGCGCCGAGGACTCATGGCTATGATGGTY			
12732	T	C	S	CATCACCATCATAGCCATGAGCGCCCTGGGGGTCCTCCTGGGGG			
12732	T	T	S	CATCACCATCATAGCCATGAGTGCCCTGGGGGTCCTCCTGGGGG			
				GAAGCCAGGCAATGTGTTGAAGACCTTAGACCCCATCCTCATCACCATCATAGCCATGAG[CT]GCCCTGGGGGTCCTCCTGGGGGCTGTCTGTGGGGTCGTGCT			
12732	IS	[CT]		GTACTGTGCCTGTTGGCAT	ctg13655	10	NRP1
12733	I		A	AGGTGGTAGCAGCAGGAGGTTGGTTTAT			
12733	P	A	A	CGCGCCGAGGAAGTAGCTTAATTGTATTGTCTGY			
12733	P	G	A	ATGACGTGGCAGACGAGTAGCTTAATTGTATTGTCTGY			
12733	T	A	A	AGGGCAGACAATACAATTAAGCTACTTTAAACCAACCTCCTGCTGCTACCACCTAA			
12733	T	G	A	AGGGCAGACAATACAATTAAGCTACTCTAAACCAACCTCCTGCTGCTACCACCTAA			
				CAGTGGGGACTGTTTCACTCATGAAGTTATTTAGGTGGTAGCAGCAGGAGGTTGGTTTA[AG]AGTAGCTTAATTGTATTGTCTGCCCTGAGAAAAATTCAAAAGCT			
12733	IS	[AG]		GGAGAATATAAAAGAA	ctg13655	10	
12736	I		S	ACATTATCGTTTTTAGTATTAAGTCTTCAGAACCAGTTTGAGTTTTCCT			
12736	P	T	S	CGCGCCGAGGACATCTCAATTATAACACTAAATTTTTATTAY			
12736	P	G	S	ATGACGTGGCAGACCCATCTCAATTATAACACTAAATTTTTATY			
12736	T	T	S	TATCTAATAAAAATTTAGTGTTATAATTGAGATGTGGAAAACTCAAACTGGTTCTGAAGACTTAATACTAAAAACGATAATGTAA			
12736	T	G	S	TATCTAATAAAAATTTAGTGTTATAATTGAGATGGGGAAAACTCAAACTGGTTCTGAAGACTTAATACTAAAAACGATAATGTAA			
				TATGAAATATAAATACAGATCAAATATATCTAATAAAAATTTAGTGTTATAATTGAGATG[TG]GGAAAACTCAAACTGGTTCTGAAGACTTAATACTAAAAACGATAAT			
12736	IS	[TG]		GTAAAATAGCTCAT	ctg16537	20	
12738	I		A	CTCCTTGGCTTTGGATTCAGAATGATAACCTGCACCTAC			
12738	P	A	A	CGCGCCGAGGAAGTAGAAAATAAAATCCAGTTAATTATTAAAY			
12738	P	T	A	ATGACGTGGCAGACTAGTAGAAAATAAAATCCAGTTAATTATTAAAAY			
12738	T	A	A	GATATTTAATAATTAACTGGATTTTATTTTCTACTTTAGGTGCAGGTTATCATTCTGAATCCAAAGCCAAGGAGTA			
12738	T	T	A	GATATTTTAATAATTAACTGGATTTTATTTTCTACTATAGGTGCAGGTTATCATTCTGAATCCAAAGCCAAGGAGTA			
				CTCGTTTGCATACATGTTTTATACTCCTTGGCTTTGGATTCAGAATGATAACCTGCACCTA[AT]AGTAGAAAATAAAATCCAGTTAATTATTAAAATATCAAGAGACCTT			
12738	IS	[AT]		GCTTATGTTATATA	ctg16537	20	
12746	I		S	GGCTGGAGAAGGTGTACTGGACACTTCCCAT			
12746	P	T	S	CGCGCCGAGGATATCCCCAGAGGAATCAGY			
12746	P	C	S	ATGACGTGGCAGACGTATCCCCAGAGGAATCAY			
12746	T	T	S	AGCTCTGATTCCTCTGGGGATATTGGGAAGTGTCCAGTACACCTTCTCCAGCCTC			
12746	T	C	S	AGCTCTGATTCCTCTGGGGATACTGGGAAGTGTCCAGTACACCTTCTCCAGCCTC			
				GGTGAGGGGACCTCCCTGTGACCCTCTCCTTTGCCTGCAGCTCTGATTCCTCTGGGGATA[TC]TGGGAAGTGTCCAGTACACCTTCTCCAGCCTCCCGCTTGTGA			
12746	IS	[TC]		CCGGGGAATTCCTGGAGC	ctg16586	20	
13165	I		A	CCCTGTCCTCGGCCACCCAGCT			
13165	P	A	A	CGCGCCGAGGACAGGCTTGTCACCTY			
13165	P	G	A	ATGACGTGGCAGACGCAGGCTTGTCACCY			
13165	T	A	A	CTGGAGGTGACAAGCCTGTGCTGGGTGGCCGAGGACAGGGAG			
13165	T	G	A	CTGGAGGTGACAAGCCTGCGCTGGGTGGCCGAGGACAGGGAG			
				GGAGCACAGGAGGTCAGGCAGAGCCAGACTGGCCTGCCTCCCTGTCCTCGGCCACCCAGC[AG]CAGGCTTGTCACCTCCAGGTGCCTCCTGTTGTCACCAAGA			
13165	IS	[AG]		GCTTGGAGGCAAGGGCCTAG	ctg17450	X	
13169	I		A	CCCATGAGGGCTACCAGTAAGAACCAGAGAGAGA			
13169	P	C	A	ATGACGTGGCAGACCGACGGTTCCTGGCY			
13169	P	T	A	CGCGCCGAGGTGACGGTTCCTGGCY			
13169	T	C	A	TGAAGCCAGGAACCGTCGCTCTCTCTGGTTCTTACTGGTAGCCCTCATGGGGG			
13169	T	T	A	TGAAGCCAGGAACCGTCACTCTCTCTGGTTCTTACTGGTAGCCCTCATGGGGG			

FIGURE 129B

				GCCTTGGAGGCTCTGGCGTCAGGGACCCCCATGAGGGCTACCAGTAAGAACCAGAGAGAG[CT]GACGGTTCCTGGCTTCAGCCCCAAACCCTGGCTGTCAATAT			
13169	IS	[CT]		CAGCCTTGGTGGGAGCCCT	ctg17450	X	
13171	I		A	TGGGCCGAGGCCGAGACTGGAAA			
13171	P	T	A	CGCGCCGAGGTGTTGACCTGATTCCCAY			
13171	P	C	A	ATGACGTGGCAGACCGTTGACCTGATTCCCY			
13171	T	T	A	AATTTGGGAATCAGGTCAACATTCCAGTCTCGGCCTCGGCCCATC			
13171	T	C	A	AATTTGGGAATCAGGTCAACGTTCCAGTCTCGGCCTCGGCCCATC			
				TAAGCGTTTTCAGTTGCTGGAGGGGCCCCCTGAGTCGATGGGCCGAGGCCGAGACTGGAA[TC]GTTGACCTGATTCCCAAATTCCTCATGGCTAACGGTGAGGG			
13171	IS	[TC]		ACAGGAAGGAGGTATTGCA	ctg17450	X	
13173	I		S	GGTGCCTGCCCCTCACTGTGCAC			
13173	P	T	S	CGCGCCGAGGAGCTCTGGGAGCAGCY			
13173	P	A	S	ATGACGTGGCAGACTCTCTGGGAGCAGCY			
13173	T	T	S	CCGGGCTGCTCCCAGAGTTGCACAGTGAGGGGCAGGCACCCA			
13173	T	A	S	CCGGGCTGCTCCCAGAGATGCACAGTGAGGGGCAGGCACCCA			
				AGTGGCTCCAGAAGGGAGAGGTTCTGGAAGACGCCCCAACCTGCCGGGCTGCTCCCAGAG[TA]TGCACAGTGAGGGGCAGGCACCCAGGGCCGTTCCAGGACT			
13173	IS	[TA]		CAAGATGGGGATGGAGATGG	ctg17450	X	2.19
13174	I		S	GTCCCAGGCAGCCCCTTCACTGCA			
13174	P	A	S	CGCGCCGAGGTCGGGTCACAGGTGY			
13174	P	G	S	ATGACGTGGCAGACCCGGGTCACAGGTGY			
13174	T	A	S	CACCCACCTGTGACCCGAGCAGTGAAGGGGCTGCCTGGGACGT			
13174	T	G	S	CACCCACCTGTGACCCGGGCAGTGAAGGGGCTGCCTGGGACGT			
				CCATGCCCACCCTGCCACCCGTTTCTGTCACTGCTCCCAGTGCCACCCACCTGTGACCCG[AG]GCAGTGAAGGGGCTGCCTGGGACGTGCTGTTCATTGTACTT			
13174	IS	[AG]		GACTAGAATGCTGTAGTCC	ctg17450	X	
13181	I		A	AGTGGAGATGAGCCCCCCAGCTCACA			
13181	P	T	A	CGCGCCGAGGTTCCTCCCTCCAGTTGY			
13181	P	C	A	ATGACGTGGCAGACCTCCTCCCTCCAGTTGY			
13181	T	T	A	CTCACAACTGGAGGGAGGAAGTGAGCTGGGGGGCTCATCTCCACTGG			
13181	T	C	A	CTCACAACTGGAGGGAGGAGGTGAGCTGGGGGGCTCATCTCCACTGG			
				CAGTCTGGAGGCCCTGGAGGCCTGTTCCTGCAGCCAGTGGAGATGAGCCCCCCAGCTCAC[TC]TCCTCCCTCCAGTTGTGAGATCACAGCAGGTTTGAGAAGTG			
13181	IS	[TC]		GAAATCCTGGTTTGGGAGA	MULTIPLE	16	
13182	I		A	CCAAGAAGAGTAACAAGCCAAATGAACAGACAAGTAAAAGACATGACAGA			
13182	P	C	A	ATGACGTGGCAGACCGATACTTTCCCAGAGCY			
13182	P	T	A	CGCGCCGAGGTGATACTTTCCCAGAGCTY			
13182	T	C	A	CTTCAGCTCTGGGAAAGTATCGCTGTCATGTCTTTTACTTGTCTGTTCATTTGGCTTGTTACTCTTCTTGGCT			
13182	T	T	A	CTTCAGCTCTGGGAAAGTATCACTGTCATGTCTTTTACTTGTCTGTTCATTTGGCTTGTTACTCTTCTTGGCT			
				TGCAACTGGAGCCAAGAAGAGTAACAAGCCAAATGAACAGACAAGTAAAAGACATGACAG[CT]GATACTTTCCCAGAGCTGAAGTTAACAAATGCACCTGGTTCTT			
13182	IS	[CT]		TTACTAAGTGTTCAAAT	ctg17129	17	BRCA1
13186	I		S	ACTGAGGGAGAAGAGTCCACAGGCCCAA			
13186	P	G	S	ATGACGTGGCAGACCGCCAGCCCTCTCY			
13186	P	A	S	CGCGCCGAGGTGCCAGCCCTCTCY			
13186	T	G	S	GGAGGAGAGGGCTGGCGTGGGCCTGTGGACTCTTCTCCCTCAGTGG			
13186	T	A	S	GGAGGAGAGGGCTGGCATGGGCCTGTGGACTCTTCTCCCTCAGTGG			
				TAGGCTTGGTTTGAGAGCAGGATGGGGTGAGAGAGAAGCAGCGGGGAGGAGAGGGCTGGC[GA]TGGGCCTGTGGACTCTTCTCCCTCAGTGGCTATGAAGGGT			
13186	IS	[GA]		CTGCCAGCCTGGAAACTTCC	ctg17129	17	
13187	I		A	GGCTGTACGACCGTCTCCCGCCC			
13187	P	T	A	CGCGCCGAGGTCTGCCTGTCACTCCY			
13187	P	G	A	ATGACGTGGCAGACGCTGCCTGTCACTCCY			
13187	T	T	A	GCCCGGAGTGACAGGCAGAGGCGGGAGACGGTCGTACAGCCCC			
13187	T	G	A	GCCCGGAGTGACAGGCAGCGGCGGGAGACGGTCGTACAGCCCC			
				CTGCGGGCTCAACTTCGCAGACCTCATGGCTAGGCAGGGGCTGTACGACCGTCTCCCGCC[TG]CTGCCTGTCACTCCGGGCATGGAGGGCGCGGGTGTTGTGA			
13187	IS	[TG]		TCGCAGTGGGCGAGGGAGTC	ctg17129	17	
13213	I		S	TGAGCAGCGAAGGGGCTGTGGCT			
13213	P	T	S	CGCGCCGAGGATTCCTCGCTTGCTTCY			
13213	P	C	S	ATGACGTGGCAGACGTTCCTCGCTTGCTTCY			
13213	T	T	S	CAGAGAAGCAAGCGAGGAATGCCACAGCCCCTTCGCTGCTCACA			
13213	T	C	S	CAGAGAAGCAAGCGAGGAACGCCACAGCCCCTTCGCTGCTCACA			
				GTGCCGGGGCCTCAGACCGGGCCCAACTCTAGACACTTCCACAGAGAAGCAAGCGAGGAA[TC]GCCACAGCCCCTTCGCTGCTCACAGCCTCATTTCAACTCTG			
13213	IS	[TC]		AGCCCCTCCTCACAGGGCT			
13214	I		A	GTACTGAGCACCCGACAGTGCCTGTCAA			
13214	P	T	A	CGCGCCGAGGTATGGTAGGCACTTAGCGY			
13214	P	C	A	ATGACGTGGCAGACCATGGTAGGCACTTAGCY			
13214	T	T	A	TATTCGCTAAGTGCCTACCATATGACAGGCACTGTCGGGTGCTCAGTACAC			
13214	T	C	A	TATTCGCTAAGTGCCTACCATGTGACAGGCACTGTCGGGTGCTCAGTACAC			
				GGACAGGGCTGTGACTGTCCTATTGGTTGATGTGTACTGAGCACCCGACAGTGCCTGTCA[TC]ATGGTAGGCACTTAGCGAATATTTGGAGGCCACTGTTGAGTG			
13214	IS	[TC]		AATGGGAGAACTGCTGGT			
13215	I		A	CCCAACAGCCTCCTGTTGGGCAATTTCCTT			
13215	P	G	A	ATGACGTGGCAGACGTTCCAGAATCAACTCCACY			
13215	P	C	A	CGCGCCGAGGCTTCCAGAATCAACTCCACY			
13215	T	G	A	GGTAGTGGAGTTGATTCTGGAACAGGAAATTGCCCAACAGGAGGCTGTTGGGCT			
13215	T	C	A	GGTAGTGGAGTTGATTCTGGAAGAGGAAATTGCCCAACAGGAGGCTGTTGGGCT			
				GGCTGAGAACAGGGAGCAAGCGTACCTCAAGCCCAACAGCCTCCTGTTGGGCAATTTCCT[GC]TTCCAGAATCAACTCCACTACCCATCCTGGGGCCGACCTACA			
13215	IS	[GC]		GGAGAATTTCTGCCGCAA			
13217	I		A	GCTCAGTACCAGGTGGGAGTTGATTTGTCTTCTCAA			
13217	P	T	A	CGCGCCGAGGTTGTTCTCTTTGGCTGTGY			
13217	P	C	A	ATGACGTGGCAGACCTGTTCTCTTTGGCTGTGY			
13217	T	T	A	CACACACAGCCAAAGAGAACAATGAGAAGACAAATCAACTCCCACCTGGTACTGAGCAC			
13217	T	C	A	CACACACAGCCAAAGAGAACAGTGAGAAGACAAATCAACTCCCACCTGGTACTGAGCAC			
				AGCGGGTATTTATATATGCACATGTGCTCAGTACCAGGTGGGAGTTGATTTGTCTTCTCA[TC]TGTTCTCTTTGGCTGTGTGTGCTTTGTAGTTATGTCACGCATCT			
13217	IS	[TC]		GATGAAGCGAATTCAG	ctg11	15	
13228	I		A	GCGTAAGCCAGCCTGGTGCCACCT			
13228	P	C	A	ATGACGTGGCAGACCGGAGCGGCGTTY			
13228	P	A	A	CGCGCCGAGGAGGAGCGGCGTTAAY			
13228	T	C	A	CCCGTTAACGCCGCTCCGGGTGGCACCAGGCTGGCTTACGCGG			
13228	T	A	A	CCCGTTAACGCCGCTCCTGGTGGCACCAGGCTGGCTTACGCGG			
				GCTGCCCCTCCGCAGAGGGAGCCGGCTCGGGGTCCCCGCGTAAGCCAGCCTGGTGCCACC[CA]GGAGCGGCGTTAACGGGTGCGTGGTGTCTCGGCTCTGCA			
13228	IS	[CA]		GGGCGTCATGGTCGGTATGGG	ctg4256	1	
13240	I		A	ACACAACCAGCTGCCCCTTGTCATA			
13240	P	C	A	ATGACGTGGCAGACCGAGTTCACCGAGCAY			
13240	P	T	A	CGCGCCGAGGTGAGTTCACCGAGCAY			
13240	T	C	A	CACCTGCTCGGTGAACTCGATGACAAGGGGCAGCTGGTTGTGTTT			
13240	T	T	A	CACCTGCTCGGTGAACTCAATGACAAGGGGCAGCTGGTTGTGTTT			
				GGAGGTCACCAAGGAGAACCTGCTGGACTTTATCAAACACAACCAGCTGCCCCTTGTCAT[CT]GAGTTCACCGAGCAGGTGCGGCTGCCCTGCAGCCCCCAGGC			
13240	IS	[CT]		TGGGGATGGGGAGGAGTGG	ctg18647	17	
13243	I		A	CAGCATTGCATCGTTAGCTTCTCCTGATAAACTAATTGA			
13243	P	T	A	CGCGCCGAGGTCTCACATTGTCACTGCY			
13243	P	C	A	ATGACGTGGCAGACCCTCACATTGTCACTGCY			
13243	T	T	A	ATTTGCAGTGACAATGTGAGACAATTAGTTTATCAGGAGAAGCTAACGATGCAATGCTGAC			
13243	T	C	A	ATTTGCAGTGACAATGTGAGGCAATTAGTTTATCAGGAGAAGCTAACGATGCAATGCTGAC			

FIGURE 129B

				CTATATATAGAGATATCTTTGTCAGCATTGCATCGTTAGCTTCTCCTGATAAACTAATTG[TC]CTCACATTGTCACTGCAAATCGACACCTATTAATGGGTCTCACCT			
13243	IS	[TC]		CCCAACTGCTTCCCC	ctg16105	5	
13246	I		A	CAGAGTGAGTTCAGATCCGCCCAACAGTGGA			
13246	P	T	A	CGCGCCGAGGTGACCGCCCACCY			
13246	P	C	A	ATGACGTGGCAGACCGACCGCCCACCY			
13246	T	T	A	AGGAGGTGGGCGGTCACCACTGTTGGGCGGATCTGAACTCACTCTGAG			
13246	T	C	A	AGGAGGTGGGCGGTCGCCACTGTTGGGCGGATCTGAACTCACTCTGAG			
				CTCAACTCCTCCCTCAGTCCCCACTGCACTCAGAGTGAGTTCAGATCCGCCCAACAGTGG[TC]GACCGCCCACCTCCTCTGGTCCACAATGGCAGGAGATGGACA			
13248	IS	[TC]		GGAGCTTTGGCCACACAC	ctg14747	2	
13251	I		S	GGGGAGAGCCCTTGCTTTCTATCCCCAT			
13251	P	T	S	CGCGCCGAGGAATTGCTCCTGGGAAGAY			
13251	P	C	S	ATGACGTGGCAGACGATTGCTCCTGGGAAGAY			
13251	T	T	S	GTTATCTTCCCAGGAGCAATTTGGGGATAGAAAGCAAGGGCTCTCCCCTT			
13251	T	C	S	GTTATCTTCCCAGGAGCAATCTGGGGATAGAAAGCAAGGGCTCTCCCCTT			
				GTCATTGAAAATTTCTTCGCCAAAAGGTGCTTCTGAAACTGTTATCTTCCCAGGAGCAAT[TC]TGGGGATAGAAAGCAAGGGCTCTCCCCTTGGCTGGCCATGTTC			
13251	IS	[TC]		CCAGCTGGCCTTTTTCT	ctg14747	2	
13257	I		S	GGGTTGCTTTGGCATGACCTTTTCTTCAGTATATCTCCAA			
13257	P	A	S	CGCGCCGAGGTAGTCCCCAGTAATCACCY			
13257	P	G	S	ATGACGTGGCAGACCAGTCCCCAGTAATCACY			
13257	T	A	S	ATGGGGTGATTACTGGGGACTATGGAGATATACTGAAGAAAAGGTCATGCCAAAGCAACCCAT			
13257	T	G	S	ATGGGGTGATTACTGGGGACTGTGGAGATATACTGAAGAAAAGGTCATGCCAAAGCAACCCAT			
				TAAATTACTAAACACAGGTTTGACAGGATTAATACAAGAATGGGGTGATTACTGGGGACT[AG]TGGAGATATACTGAAGAAAAGGTCATGCCAAAGCAACCCATTTT			
13257	IS	[AG]		CATTTTCAATAAGATT	ctg17326	12	
13260	I		A	GGGGTCTGATGACACAGGCTGACTCATGGA			
13260	P	C	A	ATGACGTGGCAGACCCGGGCTGACTGCY			
13260	P	T	A	CGCGCCGAGGTCGGGCTGACTGCY			
13260	T	C	A	GGGGGCAGTCAGCCCGGCCATGAGTCAGCCTGTGTCATCAGACCCCTG			
13260	T	T	A	GGGGGCAGTCAGCCCGACCATGAGTCAGCCTGTGTCATCAGACCCCTG			
				GGCCACGCGGGACCGACTTTCCATTGATTCAGGGGTCTGATGACACAGGCTGACTCATGG[CT]CGGGCTGACTGCCCCCCTGCCTTGCTCCCCGAGGCCTGCC			
13260	IS	[CT]		GGTCCTTCCCTCTCATGACT	ctg22fin4	22	
13264	I		S	CCTCCCAGCTGTAGAGTGGCTTATACGCCAT			
13264	P	T	S	CGCGCCGAGGAATCTCGCTGAGCCTTY			
13264	P	C	S	ATGACGTGGCAGACGATCTCGCTGAGCCTY			
13264	T	T	S	TAAGAAGGCTCAGCGAGATTTGGCGTATAAGCCACTCTACAGCTGGGAGGAA			
13264	T	C	S	TAAGAAGGCTCAGCGAGATCTGGCGTATAAGCCACTCTACAGCTGGGAGGAA			
				CACATAGTCACATTGTCAAATAGCGTATTCACCTTCTCTTATAAGAAGGCTCAGCGAGAT[TC]TGGCGTATAAGCCACTCTACAGCTGGGAGGAAGCCAAGCAGAA			
13264	IS	[TC]		AACGGTGGAGTGGGTTG	ctg12729	1	MULTIPLE SHORT GENE NAMES
13267	I		A	CTGTTGTTACTATTATGGCCAGAGATGTGGCCTTTGATTTGATA			
13267	P	C	A	ATGACGTGGCAGACCGCCTTAGATGGGATGAY			
13267	P	T	A	CGCGCCGAGGTGCCTTAGATGGGATGATY			
13267	T	C	A	TCCCATCATCCCATCTAAGGCGATCAAATCAAAGGCCACATCTCTGGCCATAATAGTAACAACAGCA			
13267	T	T	A	TCCCATCATCCCATCTAAGGCAATCAAATCAAAGGCCACATCTCTGGCCATAATAGTAACAACAGCA			
				TTAGGATAGACATATTGCTGTTGTTACTATTATGGCCAGAGATGTGGCCTTTGATTTGAT[CT]GCCTTAGATGGGATGATGGGATGCTGATGCCCCATTTAAGCCA			
13267	IS	[CT]		GTGGTTCTGAATCTGGG	ctg12325	11	
13285	I		S	GGAGATCCTAGAAGGAGCGGAGAAGCTGCTC			
13285	P	A	S	CGCGCCGAGGTCTTGGTGAGGAGAGCY			
13285	P	C	S	ATGACGTGGCAGACGCTTGGTGAGGAGAGCY			
13285	T	A	S	GAGAGCTCTCCTCACCAAGAAGCAGCTTCTCCGCTCCTTCTAGGATCTCCGC			
13285	T	C	S	GAGAGCTCTCCTCACCAAGCAGCAGCTTCTCCGCTCCTTCTAGGATCTCCGC			
				ATCCCCCGGGGCTGGGATCTCTTTTATAAAAGGCCATTCCTGAGAGCTCTCCTCACCAAG[AC]AGCAGCTTCTCCGCTCCTTCTAGGATCTCCGCCTGGTTCGGC			
13285	IS	[AC]		CCGCCTGCCTCCACTCCT	ctg15265	12	
13299	I		A	CCCTGGCTGGATGACAGGACTTCATGCCT			
13299	P	A	A	CGCGCCGAGGATCTGTGCCCATGCCY			
13299	P	G	A	ATGACGTGGCAGACGTCTGTGCCCATGCY			
13299	T	A	A	GGGTGGCATGGGCACAGATGGCATGAAGTCCTGTCATCCAGCCAGGGAG			
13299	T	G	A	GGGTGGCATGGGCACAGACGGCATGAAGTCCTGTCATCCAGCCAGGGAG			
				ACTTTGGTCAAGATGAGGAGGGCAGGGAGGCTCCCTGGCTGGATGACAGGACTTCATGCC[AG]TCTGTGCCCATGCCACCCAGCTTCCCTCCTGGGGACACAGA			
13299	IS	[AG]		GTGGTGAGGGTGGTGCAGA	ctg16279	17	
13302	I		A	CATTACACTAGTTTTTACTAACTTTGGGATGACTTCCCCTTTAATT			
13302	P	C	A	CGCGCCGAGGCCCTGCTTTTAACAGTGAAY			
13302	P	G	A	ATGACGTGGCAGACGCCTGCTTTTAACAGTGAY			
13302	T	C	A	GTTCTTCACTGTTAAAAGCAGGGATTAAAGGGGAAGTCATCCCAAAGTTAGTAAAAACTAGTGTAATGAG			
13302	T	G	A	GTTCTTCACTGTTAAAAGCAGGCATTAAAGGGGAAGTCATCCCAAAGTTAGTAAAAACTAGTGTAATGAG			
				ATATTTTTAAATTCTCATTACACTAGTTTTTACTAACTTTGGGATGACTTCCCCTTTAAT[CG]CCTGCTTTTAACAGTGAAGAACATATACAATGCACTATTTTCAAAT			
13302	IS	[CG]		GAATTTGGAGAAAG	MULTIPLE	MULTIPLE	
13363	I		A	CGCGTCGCTGAGGGGTAGCGATGA			
13363	P	C	A	ATGACGTGGCAGACCGGGCTCCGGGY			
13363	P	T	A	CGCGCCGAGGTGGGCTCCGGGGY			
13363	T	C	A	TCATCCCCGGAGCCCGCATCGCTACCCCTCAGCGACGCGGC			
13363	T	T	A	TCATCCCCGGAGCCCACATCGCTACCCCTCAGCGACGCGGC			
				GGAGCCGCCCGCGGGCACCTGCGCGTTAAGAGTGGGCCGCGTCGCTGAGGGGTAGCGATG[CT]GGGCTCCGGGGATGAGGTCGCGGCCGGCGGGTCCCGCG			
13363	IS	[CT]		CTGTTGCTGCTGCTGCTCTTCC			
13454	I		A	TCTGTCCCCGGCTTTTGGGCTCTGAT			
13454	P	A	A	CGCGCCGAGGAGGACTAACCACGTGCY			
13454	P	G	A	ATGACGTGGCAGACGGGACTAACCACGTGCY			
13454	T	A	A	GAAAGCACGTGGTTAGTCCTTCAGAGCCCAAAAGCCGGGGACAGACA			
13454	T	G	A	GAAAGCACGTGGTTAGTCCCTCAGAGCCCAAAAGCCGGGGACAGACA			
				CCGTCACGGGAGAGGGAAGGCAGCTCCTGGCTGTGTCTGTCCCCGGCTTTTGGGCTCTGA[AG]GGACTAACCACGTGCTTTCTCACTTGTCTCAGATTGCCCAG			
13454	IS	[AG]		CTGCCCTTGACCGGAAGCA			
13655	I		S	GACCAGCAGAGGCTGCAGGCTGTGT			
13655	P	C	S	ATGACGTGGCAGACGAACAGCTCCTCACCCY			
13655	P	T	S	CGCGCCGAGGAAACAGCTCCTCACCCY			
13655	T	C	S	CTAAGGGTGAGGAGCTGTTCCACAGCCTGCAGCCTCTGCTGGTCTC			
13655	T	T	S	CTAAGGGTGAGGAGCTGTTTCACAGCCTGCAGCCTCTGCTGGTCTC			
				TGCTGTGCTAGGCCTGCTCTGCGTGCAGCTGGGCCCTGGACCTAAGGGTGAGGAGCTGTT[CT]CACAGCCTGCAGCCTCTGCTGGTCTCTGTGCTCAGTGACAG			
13655	IS	[CT]		CACAGCTAGCCCTGCTGCC	ctg16733	3	tFRD2
4033	I		S	GATTCAAGCAATTCTCCTGCCTCAGCCTCCCT			
4033	P	C	S	CGCGCCGAGGGAGTAGCTGGGACTACAGG			
4033	P	T	S	CGCGCCGAGGAAGTAGCTGGGACTACAGG			
4033	T	C	S	CACTCCTGTAGTCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATTGCTTGAATCTG			
4033	T	T	S	CACTCCTGTAGTCCCAGCTACTTGGGAGGCTGAGGCAGGAGAATTGCTTGAATCTG			
				CCTGAGGACAGGAGTTCAAGACCAGCCTGGCCAACATGGTGAAACCCCTTCTCTACTAAAAATTCAAAAAAATTAGCCCAGTGTTGCTGCACACTCCTGTAGTCCC			
4033	IS	[CT]		AGCTACT[CT]GGGAGGCTGAGGCAGGAGAATTGCTTGAATCTGGGAGGCGGAGGTTGCAGTGAGCCATTGCCCTCCA	ctg15944	11	
4057	I		A	GCAATTTCAAGTATTCATAGGCTCCTCAGAATCCATGAATCCCAT			
4057	P	G	A	CGCGCCGAGGGTGCGTGAATCCTGTGTT			
4057	P	A	A	CGCGCCGAGGATGCGTGAATCCTGTGTTG			
4057	T	G	A	TGGGCAACACAGGATTCACGCACTGGGATTCATGGATTCTGAGGAGCCTATGAATACTTGAAATTGCAC			
4057	T	A	A	TGGGCAACACAGGATTCACGCATTGGGATTCATGGATTCTGAGGAGCCTATGAATACTTGAAATTGCAC			

FIGURE 129B

4057	IS	[GA]		GTAGGTGCAATTTCAAGTATTCATAGGCTCCTCAGAATCCATGAATCCCA[GA]TGCGTGAATCCTGTGTTGCCCAGGCTGGTCTGGAATCCATGAATCCTTTC	ctg22fin4	22
4764	I		A	CCTTTGTCCCAGGCCTCAGCCTCCAGT		
4764	P	C	A	CGCGCCGAGGCCCTTTCCCAGCCTGY		
4764	P	G	A	CGCGCCGAGGGCCTTTCCCAGCCTGY		
4764	T	C	A	GGCCCAGGCTGGGAAAGGGCTGGAGGCTGAGGCCTGGGACAAAGGGC		
4764	T	G	A	GGCCCAGGCTGGGAAAGGCCTGGAGGCTGAGGCCTGGGACAAAGGGC		
4764	IS	[CG]		CCCTTGGCTTCACCCTCCTGTGGCCCTTTGTCCCAGGCCTCAGCCTCCAG[CG]CCTTTCCCAGCCTGGGCCGGGCCACTGCCACCCCTCTATTCCCCACTCCC	ctg22fin4	22
4778	I		A	ACCCAGATATCCTAATCTTCAGTAGCTGACCTAAACCCTGGAT		
4778	P	C	A	CGCGCCGAGGCAAGTGGGATCAAACCCCY		
4778	P	A	A	CGCGCCGAGGAAAGTGGGATCAAACCCCY		
4778	T	C	A	TTATGGGGTTTGATCCCACTTGTCCAGGGTTTAGGTCAGCTACTGAAGATTAGGATATCTGGGTAC		
4778	T	A	A	TTATGGGGTTTGATCCCACTTTTCCAGGGTTTAGGTCAGCTACTGAAGATTAGGATATCTGGGTAC		
4778	IS	[CA]		TAAGAGGTACCCAGATATCCTAATCTTCAGTAGCTGACCTAAACCCTGGA[CA]AAGTGGGATCAAACCCCATAACCAAATACAACTTTTTAGGAACTAAGTGG	MULTIPLE	MULTIPLE
4795	I		A	TCAAACAGTATCTATGCCTGCCAAATGTGAACATACAAAAAACAAATCAGT		
4795	P	C	A	CGCGCCGAGGCATGTGCCATTCTGATTTAAACTGY		
4795	P	A	A	CGCGCCGAGGAATGTGCCATTCTGATTTAAACTGY		
4795	T	C	A	TAAGCAGTTTAAATCAGAATGGCACATGCTGATTTGTTTTTTGTATGTTCACATTTGGCAGGCATAGATACTGTTTGA		
4795	T	A	A	TAAGCAGTTTAAATCAGAATGGCACATTCTGATTTGTTTTTTGTATGTTCACATTTGGCAGGCATAGATACTGTTTGA		
4795	IS	[CA]		TCAAACAGTATCTATGCCTGCCAAATGTGAACATACAAAAAACAAATCAG[CA]ATGTGCCATTCTGATTTAAACTGCTTATTAGTTAATACCCTCAAGATAAC	MULTIPLE	MULTIPLE
6989	I		S	GGTGAAACCTATAGACCCCGTCTGAGCATAACGTTTTAAAATGCT		
6989	P	T	S	CGCGCCGAGGATACGTGGCCCGGTY		
6989	P	C	S	CGCGCCGAGGGTACGTGGCCCGGTY		
6989	T	T	S	CCACACCGGGCCACGTATGCATTTTAAAACGTTATGCTCAGACGGGGTCTATAGGTTTCACCAG		
6989	T	C	S	CCACACCGGGCCACGTACGCATTTTAAAACGTTATGCTCAGACGGGGTCTATAGGTTTCACCAG		
6989	IS	[TC]		CTCCCAAAGTGCTGGGATTACAGGTGTAAGCCACCACACCGGGCCACGTA[TC]GCATTTTAAAACGTTATGCTCAGACGGGGTCTATAGGTTTCACCAGACTG	MULTIPLE	22
7016	I		A	GCCTGTCTCCTTGGCTTATAAAGTGATGGTTTTCCTATGTTTTCACT		
7016	P	G	A	CGCGCCGAGGGTGGCCTTCCATCTGTAAC		
7016	P	A	A	CGCGCCGAGGATGGCCTTCCATCTGTAACT		
7016	T	G	A	AGACAGTTACAGATGGAAGGCCACGTGAAAACATAGGAAAACCATCACTTTATAAGCCAAGGAGACAGGCCT		
7016	T	A	A	AGACAGTTACAGATGGAAGGCCATGTGAAAACATAGGAAAACCATCACTTTATAAGCCAAGGAGACAGGCCT		
7016	IS	[GA]		TGAGGCCTGTCTCCTTGGCTTATAAAGTGATGGTTTTCCTATGTTTTCAC[GA]TGGCCTTCCATCTGTAACTGTCTGTGTCCAAATTTTCTCTTCTTATAAGG	ctg22fin4	22
7018	I		A	GACTATCACAGGAGTCCTATATTTAGAGCTTAAATAACCAAGAGTGGCTT		
7018	P	INS	A	CGCGCCGAGGGGCTCTTGCCTGCC		
7018	P	DEL	A	CGCGCCGAGGGCTCTTGCCTGCCG		
7018	T	INS	A	GCCACGGCAGGCAAGAGCCAGCCACTCTTGGTTATTTAAGCTCTAAATATAGGACTCCTGTGATAGTC		
7018	T	DEL	A	GCCACGGCAGGCAAGAGCAGCCACTCTTGGTTATTTAAGCTCTAAATATAGGACTCCTGTGATAGTC		
7018	IS	[G-]		GACTATCACAGGAGTCCTATATTTAGAGCTTAAATAACCAAGAGTGGCTG[G-]CTCTTGCCTGCCGTGGCATTTACTGATTATGGTCACTCCCTGGCTAAAAT	ctg22fin4	22
7019	I		A	GGTGATTTTGTGCATTCTGTATCTCTTGCCCCTGCTCA		
7019	P	T	A	CGCGCCGAGGTGGGCTCCAGCTGAG		
7019	P	C	A	CGCGCCGAGGCGGGCTCCAGCTGA		
7019	T	T	A	GCGCCTCAGCTGGAGCCCAGAGCAGGGGCAAGAGATACAGAATGCACAAAATCACCCC		
7019	T	C	A	GCGCCTCAGCTGGAGCCCGGAGCAGGGGCAAGAGATACAGAATGCACAAAATCACCCC		
7019	IS	[TC]		GGAGAGGTTCTGGGGTGATTTTGTGCATTCTGTATCTCTTGCCCCTGCTG[TC]GGGCTCCAGCTGAGGCGCCCAGCAGTTCTATATTCTATGCATGGAAATAC	ctg22fin4	22
7020	I		S	AGCTGTTGGGGCGAAGTGTGTTAGCTCATGACT		
7020	P	T	S	CGCGCCGAGGAACTATGGAAAGGAATCCACATG		
7020	P	C	S	CGCGCCGAGGGACTATGGAAAGGAATCCACAT		
7020	T	T	S	GCATCATGTGGATTCCTTTCCATAGTTGTCATGAGCTAACACACTTCGCCCCAACAGCTGG		
7020	T	C	S	GCATCATGTGGATTCCTTTCCATAGTCGTCATGAGCTAACACACTTCGCCCCAACAGCTGG		
7020	IS	[TC]		AGGGAGGTTGGCAAGGAAAGGGGAGCATCATGTGGATT[CCTTTCCATAGT]TC]GTCATGAGCTAACACACTTCGCCCCAACAGCTGGCTTAGATTCTAATTGT	ctg22fin4	22
7023	I		S	GCCCTTGGGCAAGTCATTTCACTCTTTGAGCTTTGTTTTCT		
7023	P	C	S	CGCGCCGAGGGTGTCTTTTAATTCTGTAGCCTTC		
7023	P	T	S	CGCGCCGAGGATGTCTTTTAATTCTGTAGCCTTCA		
7023	T	C	S	AAACTGAAGGCTACAGAATTAAAAGACACGAAAACAAAGCTCAAAGAGTGAAATGACTTGCCCAAGGGCAT		
7023	T	T	S	AAACTGAAGGCTACAGAATTAAAAGACATGAAAACAAAGCTCAAAGAGTGAAATGACTTGCCCAAGGGCAT		
7023	IS	[CT]		TTATTTACATTTACAGGTGAGAAAACTGAAGGCTACAGAATTAAAAGACA[CT]GAAAACAAAGCTCAAAGAGTGAAATGACTTGCCCAAGGGCATGGGAAGCA	ctg22fin4	22
7041	I		A	CACAAGCAGGCTGGGGGGCCCT		
7041	P	INS	A	CGCGCCGAGGCCATGGTATGGACCACG		
7041	P	DEL	A	CGCGCCGAGGCATGGTATGGACCACGG		
7041	T	INS	A	CCCACCGTGGTCCATACCATGGGGGCCCCCCAGCCTGCTTGTGCA		
7041	T	DEL	A	CCCACCGTGGTCCATACCATGGGGCCCCCCAGCCTGCTTGTGCA		
7041	IS	[-C]		GCAGGTACCCCTGGCGGCCGCTACCATGCACAAGCAGGCTGGGGGGCCCC[-C]ATGGTATGGACCACGGTGGGCTGTGGAGCCGCCGTCCCCGGGCCCAGAAG	ctg22fin5	22
7048	I		S	GATAAACACATAACTCTCATGTCCTTTTCCCTGGTACTTAAAATTTCAAT		
7048	P	C	S	CGCGCCGAGGGGTAAAGTAGATTCCTTAGTTATCTGC		
7048	P	T	S	CGCGCCGAGGAGTAAAGTAGATTCCTTAGTTATCTGC		
7048	T	C	S	CTTTGCAGATAACTAAGGAATCTACTTTACCTTGAAATTTTAAGTACCAGGGAAAAAGGACATGAGAGTTATGTGTTTATC		
7048	T	T	S	CTTTGCAGATAACTAAGGAATCTACTTTACTTTGAAATTTTAAGTACCAGGGAAAAAGGACATGAGAGTTATGTGTTTATC		
7048	IS	[CT]		TGATCAAAATTAAATTTTCTCTTTGCAGATAACTAAGGAATCTACTTTAC[CT]TTGAAATTTTAAGTACCAGGGAAAAAGGACATGAGAGTTATGTGTTTATC	ctg22fin7	22
7052	I		A	GGGGCTCCAAAAGGCTGATCTCTAAAAGGGGTT		
7052	P	C	A	CGCGCCGAGGCCCTAGCACTCAAGGCCY		
7052	P	G	A	CGCGCCGAGGGCCTAGCACTCAAGGCY		
7052	T	C	A	AAAGGGCCTTGAGTGCTAGGGACCCCTTTTAGAGATCAGCCTTTTGGAGCCCCCC		
7052	T	G	A	AAAGGGCCTTGAGTGCTAGGGACCCCTTTTAGAGATCAGCCTTTTGGAGCCCCCC		
7052	IS	[CG]		AGCTTCTCCAAGGGGTGGGGGGCTCCAAAAGGCTGATCTCTAAAAGGGGT[CG]CCTAGCACTCAAGGCCCTTTCCTGGCCTCCTTCCAGAGCTACTTGAGATC	ctg22fin4	22
7057	I		A	CGAATTGGAGGTACTCTAATTTATTTGACATTCTCTAGTTATCGGACTTCT		
7057	P	A	A	CGCGCCGAGGATGTCTGCTCTTTCAATGCTAC		
7057	P	G	A	CGCGCCGAGGGTGTCTGCTCTTTCAATGCT		
7057	T	A	A	GACTGTAGCATTGAAAGAGCAGACATGAAGTCCGATAACTAGAGAATGTCAAATAAATTAGAGTACCTCCAATTCG		
7057	T	G	A	GACTGTAGCATTGAAAGAGCAGACACGAAGTCCGATAACTAGAGAATGTCAAATAAATTAGAGTACCTCCAATTCG		
7057	IS	[AG]		CGAATTGGAGGTACTCTAATTTATTTGACATTCTCTAGTTATCGGACTTC[AG]TGTCTGCTCTTTCAATGCTACAGTCAACATGGTGATGAAATTTTCTGGTT	ctg22fin4	22
7059	I		S	ACTCTTCCCTGTAGGTCCTGGGTGATAAAGTTGGGTCTTATTAATT		
7059	P	T	S	CGCGCCGAGGATCTGTCCCTCCAGTGTC		
7059	P	G	S	CGCGCCGAGGCTCTGTCCCTCCAGTGTC		
7059	T	T	S	CATGGACACTGGAGGGACAGATATTAATAAGACCCAACTTTATCACCCAGGACCTACAGGGAAGAGTGA		
7059	T	G	S	CATGGACACTGGAGGGACAGAGATTAATAAGACCCAACTTTATCACCCAGGACCTACAGGGAAGAGTGA		

FIGURE 129B

7059	IS	[TG]		TCACTGTTCCCCTACCCTACTGTATACCACATGGACACTGGAGGGACAGA[TG]ATTAATAAGACCCAACTTTATCACCCAGGACCTACAGGGAAGAGTGACCA	ctg22fin4	22	
7062	I		A	CAAAATCCAGTATGGAAAGAAAAAAAAAACCCTATTCATTCAGTAAAGTT			
7062	P	INS	A	CGCGCCGAGGAGAGGCACAAACAAATGAGC			
7062	P	DEL	A	CGCGCCGAGGAAGGCACAAACAAATGAGC			
7062	T	INS	A	CAGAGGCTCATTTGTTTGTGCCTCTACTTTACTGAATGAATAGGGTTTTTTTTTTCTTTCCATACTGGATTTTG			
7062	T	DEL	A	CAGAGGCTCATTTGTTTGTGCCTTACTTTACTGAATGAATAGGGTTTTTTTTTTCTTTCCATACTGGATTTTG			
7062	IS	[-G]		CAAAATCCAGTATGGAAAGAAAAAAAAAACCCTATTCATTCAGTAAAGTA[-G]AGGCACAAACAAATGAGCCTCTGTTCACTTTATTCAAAGAGTATTTTTTT			
7065	I		S	ATAATTCCTGCATAAACCACGTCCATTTACAATTTCATTTTCTTCAAAGAT			
7065	P	C	S	CGCGCCGAGGGTTGTAAAAATTGAGTGCATCACT			
7065	P	G	S	CGCGCCGAGGCTTGTAAAAATTGAGTGCATCACTT			
7065	T	C	S	TTTTAAGTGATGCACTCAATTTTTACAACTCTTTGAAGAAAATGAAATTGTAAATGGACGTGGTTTATGCAGGAATTAT			
7065	T	G	S	TTTTAAGTGATGCACTCAATTTTTACAAGTCTTTGAAGAAAATGAAATTGTAAATGGACGTGGTTTATGCAGGAATTAT			
7065	IS	[CG]		GAGGTTGTACACTTAGATTTCTTTTTAAGTGATGCACTCAATTTTTACAA[CG]TCTTTGAAGAAAATGAAATTGTAAATGGACGTGGTTTATGCAGGAATTAT	ctg22fin4	22	
7067	I		A	AGGTAAGCTTGGCCTGAACCTTTGGTGCACAAATTCATTAATAC			
7067	P	A	A	CGCGCCGAGGAGTCTAACTCTCCTTCAGCCY			
7067	P	T	A	CGCGCCGAGGTGTCTAACTCTCCTTCAGCCY			
7067	T	A	A	TTATGGCTGAAGGAGAGTTAGACTTATTAATGAATTTGTGCACCAAAGGTTCAGGCCAAGCTTACCTCC			
7067	T	T	A	TTATGGCTGAAGGAGAGTTAGACATATTAATGAATTTGTGCACCAAAGGTTCAGGCCAAGCTTACCTCC			
7067	IS	[AT]		AAAGAGGAGGTAAGCTTGGCCTGAACCTTTGGTGCACAAATTCATTAATA[AT]GTCTAACTCTCCTTCAGCCATAAGGTATTTGGAGTGAGAGACATGTTAAC	ctg22fin4	22	
7097	I		A	CCGTTCCGAGGGGCTGAGCACCTACTAA			
7097	P	C	A	CGCGCCGAGGCCTGCAAGCCCAGC			
7097	P	T	A	CGCGCCGAGGTCTGCAAGCCCAGCA			
7097	T	C	A	CCTGTGCTGGGCTTGCAGGTAGTAGGTGCTCAGCCCCTCGGAACGGAC			
7097	T	T	A	CCTGTGCTGGGCTTGCAGATAGTAGGTGCTCAGCCCCTCGGAACGGAC			
7097	IS	[CT]		TTCTCTGTGTACAACAGCAGCGTCCGTTCCGAGGGGCTGAGCACCTACTA[CT]CTGCAAGCCCAGCACAGGCGCTTCACACCCCCTTCCTACCCCATGGCAAT	ctg22fin4	22	
7098	I		S	GGGAGACGCTGGACACTGTCACCAACTCAGA			
7098	P	G	S	CGCGCCGAGGCGATATCAGCTGCCGAC			
7098	P	A	S	CGCGCCGAGGTGATATCAGCTGCCGACA			
7098	T	G	S	GCTCTGTCGGCAGCTGATATCGCTGAGTTGGTGACAGTGTCCAGCGTCTCCCTG			
7098	T	A	S	GCTCTGTCGGCAGCTGATATCACTGAGTTGGTGACAGTGTCCAGCGTCTCCCTG			
7098	IS	[GA]		AGGTCGGCGGGAGGGCCCTTCTGTGTGGAGCTCTGTCGGCAGCTGATATC[GA]CTGAGTTGGTGACAGTGTCCAGCGTCTCCCTGCACAACGCATTGGGCAGA	ctg22fin4	22	
7100	I		S	CAGGAAATGACTCACCCTGGACAGAGCATTTAACTAGAAATCAAAATCTGC			
7100	P	C	S	CGCGCCGAGGGGTTCTGGATCTGTGCAG			
7100	P	A	S	CGCGCCGAGGTGTTCTGGATCTGTGCAGA			
7100	T	C	S	AATCTCTGCACAGATCCAGAACCCAGATTTTGATTTCTAGTTAAATGCTCTGTCCAGGGTGAGTCATTTCCTG			
7100	T	A	S	AATCTCTGCACAGATCCAGAACACAGATTTTGATTTCTAGTTAAATGCTCTGTCCAGGGTGAGTCATTTCCTG			
7100	IS	[CA]		GGGTCTGTCATTTTCTTACTGAGGACCAAATCTCTGCACAGATCCAGAAC[CA]CAGATTTTGATTTCTAGTTAAATGCTCTGTCCAGGGTGAGTCATTTCCTG	ctg22fin4	22	
7128	I		A	AGGCCCTTCTGGACCTGAGTTTCTCATCTCTTTATTTCCTA			
7128	P	INS	A	CGCGCCGAGGTCTTTTTATGTCCTGTTGGGGY			
7128	P	DEL	A	CGCGCCGAGGTTTTATGTCCTGTTGGGGATTATTY			
7128	T	INS	A	TTAAAATAATCCCCAACAGGACATAAAAAGAAGGAAATAAAGAGATGAGAAACTCAGGTCCAGAAGGGCCTCC			
7128	T	DEL	A	TTAAAATAATCCCCAACAGGACATAAAAAGGAAATAAAGAGATGAGAAACTCAGGTCCAGAAGGGCCTCC			
7128	IS	[-CTT]		TGTTTTGGGAGGCCCTTCTGGACCTGAGTTTCTCATCTCTTTATTTCCTT[-CTT]TTTATGTCCTGTTGGGGATTATTTTAAGCTTTAAGCACAGAGTTTAATTC	ctg22fin4	22	
7136	I		S	CCAGCGCTCACTCTACTCGAGTGGCTTTTTGAT			
7136	P	T	S	CGCGCCGAGGAAGCCCTACCATGTCTGT			
7136	P	C	S	CGCGCCGAGGGAGCCCTACCATGTCTGT			
7136	T	T	S	TGACACAGACATGGTAGGGCTTTCAAAAAGCCACTCGAGTAGAGTGAGCGCTGGCG			
7136	T	C	S	TGACACAGACATGGTAGGGCTCTCAAAAAGCCACTCGAGTAGAGTGAGCGCTGGCG			
7136	IS	[TC]		CAGCTGTAGGATGTGAAGCAGCACAGGCCTGACACAGACATGGTAGGGCT[TC]TCAAAAAGCCACTCGAGTAGAGTGAGCGCTGGCGACACAGCAGAGTTCCC	ctg22fin6	22	
7137	I		A	TCTATTTCAAAAAAACAAACAAACAACAAAAAAATTAGTTTGTTATAGTGT			
7137	P	A	A	CGCGCCGAGGATGGACCTATAAATGCCAGC			
7137	P	G	A	CGCGCCGAGGGTGGACCTATAAATGCCAGC			
7137	T	A	A	AAATGCTGGCATTTATAGGTCCATCACTATAACAAACTAATTTTTTTGTTGTTTGTTTGTTTTTTTTGAAATAGA			
7137	T	G	A	AAATGCTGGCATTTATAGGTCCACCACTATAACAAACTAATTTTTTTGTTGTTTGTTTGTTTTTTTGAAATAGA			
7137	IS	[AG]		TCTATTTCAAAAAAACAAACAAACAACAAAAAAATTAGTTTGTTATAGTG[AG]TGGACCTATAAATGCCAGCATTTTTCTAAAAACTTTTTTTCTTAAGTTTG			
7230	I		A	CCCAGTGTGCGATGTGGGGAGGTGACA			
7230	P	T	A	CGCGCCGAGGTGGGTGAGCGTGAACA			
7230	P	C	A	CGCGCCGAGGCGGGTGAGCGTGAAC			
7230	T	T	A	GCCCTGTTCACGCTCACCCAGTCACCTCCCCACATCGCACACTGGGGC			
7230	T	C	A	GCCCTGTTCACGCTCACCCGGTCACCTCCCCACATCGCACACTGGGGC			
7230	IS	[TC]		GGCAGGCCAGGCTGAACCCGGGGCCCCAGTGTGCGATGTGGGGAGGTGAC[TC]GGGTGAGCGTGAACAGGGCGTGGGGTGCGCGGGGCGGGTGGCCGTGTG AC	ctg22fin4	22	DIA1
7251	I		S	CTGTTTTGTGTCCACCCCTCAGAGACCCTGTC			
7251	P	A	S	CGCGCCGAGGTCCAAGCGTCTCGTGT			
7251	P	C	S	CGCGCCGAGGGCCAAGCGTCTCGTG			
7251	T	A	S	CCAAACACGAGACGCTTGGAACAGGGTCTCTGAGGGGTGGACACAAAACAGGG			
7251	T	C	S	CCAAACACGAGACGCTTGGCACAGGGTCTCTGAGGGGTGGACACAAAACAGGG			
7251	IS	[AC]		AGACACAGCTGCATTTGTGTTCTCGGTTCCTCCAAACACGAGACGCTTGG[AC]ACAGGGTCTCTGAGGGGTGGACACAAAACAGGGACCGCAGTCTGTGCCTC	ctg22fin9	22	
7270	I		A	ACCATTTTAAAACCATAAGACCAGCAAAAATTTAAAAAGCTATAATGCCTT			
7270	P	A	A	CGCGCCGAGGATTGCTTATAAAGGTCCAGAGAAA			
7270	P	G	A	CGCGCCGAGGGTTGCTTATAAAGGTCCAGAGAA			
7270	T	A	A	TCTTTTTCTCTGGACCTTTATAAGCAATAGGCATTATAGCTTTTTAAATTTTTGCTGGTCTTATGGTTTTAAAATGGT			
7270	T	G	A	TCTTTTTCTCTGGACCTTTATAAGCAACAGGCATTATAGCTTTTTAAATTTTTGCTGGTCTTATGGTTTTAAAATGGT			
7270	IS	[AG]		ACCATTTTAAAACCATAAGACCAGCAAAAATTTAAAAAGCTATAATGCCT[AG]TTGCTTATAAAGGTCCAGAGAAAAAGATACTGTCATACACAGCCACTAGA	ctg22fin5	22	
7274	I		S	ATTTGCTCACCCTTCTTGAGGAAAGTCAGCTTTATTATTTCTTATTCTGCT			
7274	P	C	S	CGCGCCGAGGGTAAGTGTTACACTTTCGCCAATT			
7274	P	T	S	CGCGCCGAGGATAAGTGTTACACTTTCGCCATTTT			
7274	T	C	S	GAAGATGGCGAAAGTGTAACACTTACGCAGAATAAGAAATAATAAAGCTGACTTTCCTCAAGAAGGGTGAGCAAAT			
7274	T	T	S	GAAGATGGCGAAAGTGTAACACTTATGCAGAATAAGAAATAATAAAGCTGACTTTCCTCAAGAAGGGTGAGCAAAT			
7274	IS	[CT]		AATTCCCCATCAATCAGGACTGACTGAAGATGGCGAAAGTGTAACACTTA[CT]GCAGAATAAGAAATAATAAAGCTGACTTTCCTCAAGAAGGGTGAGCAAAT	ctg22fin4	22	
7287	I		S	TCAGTCCGTCAGGGTCAAGGCCACCAC			
7287	P	C	S	CGCGCCGAGGGCCCTGCCTGGAACT			
7287	P	A	S	CGCGCCGAGGTCCCTGCCTGGAACTTT			
7287	T	C	S	TCTTAAAGTTCCAGGCAGGGCTGGTGGCCTTGACCCTGACGGACTGAAA			
7287	T	A	S	TCTTAAAGTTCCAGGCAGGGATGGTGGCCTTGACCCTGACGGACTGAAA			

FIGURE 129B

7287	IS	[CA]		AAATGAAGTCCCAGCACTGACCCCGGCAGCTCTTAAAGTTCCAGGCAGGG[CA]TGGTGGCCTTGACCCTGACGGACTGAAAGCAACAGGTCTGACCACTTTCA	ctg22fin5	22
7293	I		A	AGCTACCAGATTCCAGATCAGATTGGTATAGTTTTCTGATGGGACAGT		
7293	P	A	A	CGCGCCGAGGACCTGACCATGTTTGAGG		
7293	P	G	A	CGCGCCGAGGGCCTGACCATGTTTGAGG		
7293	T	A	A	CAGCCCTCAAACATGGTCAGGTCTGTCCCATCAGAAAACTATACCAATCTGATCTGGAATCTGGTAGCTTC		
7293	T	G	A	CAGCCCTCAAACATGGTCAGGCCTGTCCCATCAGAAAACTATACCAATCTGATCTGGAATCTGGTAGCTTC		
7293	IS	[AG]		AGAAGCTACCAGATTCCAGATCAGATTGGTATAGTTTTCTGATGGGACAG[AG]CCTGACCATGTTTGAGGGCTGAACAGAAGCAGATACTAGGTTAAAGCTAT	ctg22fin4	22
7300	I		S	GCTGGCAGGTTTAGACAGGGCGGTCAGT		
7300	P	T	S	CGCGCCGAGGAAAGGTGACACTGAGCAGA		
7300	P	G	S	CGCGCCGAGGCAAGGTGACACTGAGCAG		
7300	T	T	S	AGTCTCTGCTCAGTGTCACCTTTCTGACCGCCCTGTCTAAACCTGCCAGCTC		
7300	T	G	S	AGTCTCTGCTCAGTGTCACCTTGCTGACCGCCCTGTCTAAACCTGCCAGCTC		
7300	IS	[TG]		TGGCAGGGCCCCTCCCTCACCTCCTGCAAGTCTCTGCTCAGTGTCACCTT[TG]CTGACCGCCCTGTCTAAACCTGCCAGCTCCACTAGCACCCTGGTGCTCCC	ctg22fin6	22
7303	I		S	CCAGGCATGTGTCACTTTGGGTTAGCCTAGTGCA		
7303	P	A	S	CGCGCCGAGGTCTGCCACTCTCAGTCAA		
7303	P	G	S	CGCGCCGAGGCCTGCCACTCTCAGTCA		
7303	T	A	S	GCACTTGACTGAGAGTGGCAGAGCACTAGGCTAACCCAAAGTGACACATGCCTGGCG		
7303	T	G	S	GCACTTGACTGAGAGTGGCAGGGCACTAGGCTAACCCAAAGTGACACATGCCTGGCG		
7303	IS	[AG]		CGCTTGACCCGTCTGATGTGCTGCCGTGGGCACTTGACTGAGAGTGGCAG[AG]GCACTAGGCTAACCCAAAGTGACACATGCCTGGCGGGATGTTCAGTCTCT	ctg22fin4	22
7334	I		S	GTTTTCAGTGAGTTACGTGAATTCCTCTAGTGAATTATAAAATCTAAGGAA		
7334	P	G	S	CGCGCCGAGGCGGATTTAGGAATCCCCTTAAAT		
7334	P	A	S	CGCGCCGAGGTGGATTTAGGAATCCCCTTAAATTT		
7334	T	G	S	CTGCAAATTTAAGGGGATTCCTAAATCCGTCCTTAGATTTTATAATTCACTAGAGGAATTCACGTAACTCACTGAAAAC		
7334	T	A	S	CTGCAAATTTAAGGGGATTCCTAAATCCATCCTTAGATTTTATAATTCACTAGAGGAATTCACGTAACTCACTGAAAAC		
7334	IS	[GA]		GCACCCTTATCTTTGACACTAACTGCAAATTTAAGGGGATTCCTAAATCC[GA]TCCTTAGATTTTATAATTCACTAGAGGAATTCACGTAACTCACTGAAAAC	ctg22fin4	22
7340	I		S	GCCTTTCTGGCTCCCCTGGGCTCAGAT		
7340	P	C	S	CGCGCCGAGGGCTGCTCTGAGCTGC		
7340	P	G	S	CGCGCCGAGGCCTGCTCTGAGCTGCT		
7340	T	C	S	TGTGAGCAGCTCAGAGCAGCTCTGAGCCCAGGGGAGCCAGAAAGGCAC		
7340	T	G	S	TGTGAGCAGCTCAGAGCAGGTCTGAGCCCAGGGGAGCCAGAAAGGCAC		
7340	IS	[CG]		AAAGAGGGATCTGGGACTCAGGCCAGAGGCGTGTGAGCAGCTCAGAGCAG[CG]TCTGAGCCCAGGGGAGCCAGAAAGGCACACCCACAGTTCTCAGGCAGGGG	ctg22fin4	22
7341	I		S	CATTTTCAAGGTGCCCTTCAGCACAAACAATTAAGTCTCAGAGTTT		
7341	P	C	S	CGCGCCGAGGGAGAAACCATGGAGCCAAA		
7341	P	G	S	CGCGCCGAGGCAGAAACCATGGAGCCAAA		
7341	T	C	S	TCTTTTTGGCTCCATGGTTTCTCAACTCTGAGACTTAATTGTTTGTGCTGAAGGGCACCTTGAAAATGCT		
7341	T	G	S	TCTTTTTGGCTCCATGGTTTCTGAACTCTGAGACTTAATTGTTTGTGCTGAAGGGCACCTTGAAAATGCT		
7341	IS	[CG]		TGTGCCTTCAGGATCTTTGCTCCTTCTCTCTTTTTGGCTCCATGGTTTCT[CG]AACTCTGAGACTTAATTGTTTGTGCTGAAGGGCACCTTGAAAATGCTGTG	ctg22fin4	22
7361	I		S	TTGGTATCTTTCTTTTGTGATAGCTTTATTTTCATGAAGACTTTCCCCTCT		
7361	P	T	S	CGCGCCGAGGATGCAGGTAAGATGACCATAAG		
7361	P	C	S	CGCGCCGAGGGTGCAGGTAAGATGACCATAAG		
7361	T	T	S	GTTGCTTATGGTCATCTTACCTGCATGAGGGGAAAGTCTTCATGAAAATAAAGCTATCACAAAAGAAAGATACCAA		
7361	T	C	S	GTTGCTTATGGTCATCTTACCTGCACGAGGGGAAAGTCTTCATGAAAATAAAGCTATCACAAAAGAAAGATACCAA		
7361	IS	[TC]		TTGGTTTGAAGAACACCTAGAGTTAGTTGCTTATGGTCATCTTACCTGCA[TC]GAGGGGAAAGTCTTCATGAAAATAAAGCTATCACAAAAGAAAGATACCAA	ctg22fin4	22
7367	I		A	GCCTCAGTATTATCAGATGGTAATACTGAGGGCTGTACAGGTGAAC		
7367	P	INS	A	CGCGCCGAGGGTAAGGCGCCAAGACAG		
7367	P	DEL	A	CGCGCCGAGGGGCGCCAAGACAGTTATG		
7367	T	INS	A	AAATCATAACTGTCTTGGCGCCTTACTTCACCTGTACAGCCCTCAGTATTACCATCTGATAATACTGAGGCCC		
7367	T	DEL	A	AAATCATAACTGTCTTGGCGCCTTCACCTGTACAGCCCTCAGTATTACCATCTGATAATACTGAGGCCC		
7367	IS	[-TAAG]		GCGGGCCTCAGTATTATCAGATGGTAATACTGAGGGCTGTACAGGTGAAG[-TAAG]GCGCCAAGACAGTTATGATTTGAATTCAGGCCAGCTGGTGCCATAGTCAG	ctg22fin4	22
7436	I		S	GAAAGCTCCTGCCAGCTGAATTGCATGTTTTTTACAAAATTAAGCTC		
7436	P	C	S	CGCGCCGAGGGAAAACCAGGGAGTGGCTTT		
7436	P	A	S	CGCGCCGAGGTAAAACCAGGGAGTGGCTTT		
7436	T	C	S	CACCGCCACTCCCTGGTTTTCAGCTTAATTTTGTAAAAAACATGCAATTCAGCTGGCAGGAGCTTTCAG		
7436	T	A	S	CACCGCCACTCCCTGGTTTTAAGCTTAATTTTGTAAAAAACATGCAATTCAGCTGGCAGGAGCTTTCAG		
7438	IS	[CA]		GCCATGGAAACTTTCTCCCCACCCCACCCCCACCGCCACTCCCTGGTTTT[CA]AGCTTAATTTTGTAAAAAACATGCAATTCAGCTGGCAGGAGCTTTCAGAT	ctg22fin7	22
7438	I		S	CAGTGCTCAGGGACCCTCTGTCCTGACTCA		
7438	P	A	S	CGCGCCGAGGTAGTCCTGTGCGGGAGTTT		
7438	P	G	S	CGCGCCGAGGCAGTCCTGTGCGGGATTT		
7438	T	A	S	CTCCCTCCCGCACAGGACTAGAGTCAGGACAGAGGGTCCCTGAGCACTGGG		
7438	T	G	S	CTCCCTCCCGCACAGGACTGGAGTCAGGACAGAGGGTCCCTGAGCACTGGG		
7438	IS	[AG]		TCAGCAATGGCAGGAGTCAGGCGGGGAGCACCTCCCTCCCGCACAGGACT[AG]GAGTCAGGACAGAGGGTCCCTGAGCACTGGGACATGTCCGTCCTGGCATG	ctg22fin7	22
7518	I		A	CTGTGGCTCAGAGAAGGGAAGTCACTGTTTTAAGGTGAT		
7518	P	A	A	CGCGCCGAGGAGTGGCCAGTGGAGG		
7518	P	C	A	CGCGCCGAGGCGTGGCCAGTGGAGG		
7518	T	A	A	CCCACCTCCACTGGCCACTTCACCTTAAAACAGTGACTTCCCTTCTCTGAGCCACAGTT		
7518	T	C	A	CCCACCTCCACTGGCCACGTCACCTTAAAACAGTGACTTCCCTTCTCTGAGCCACAGTT		
7518	IS	[AC]		CGGATGAGGAAACTGTGGCTCAGAGAAGGGAAGTCACTGTTTTAAGGTGA[AC]GTGGCCAGTGGAGGTGGGGCTAGGGTTCGAATCCTAGGATCAGGCACACT	ctg22fin4	22
7523	I		A	GGAGAAGATACAGAGTCTAATGAGAAACTGAATTCAGCAAAAAAGGAACGC		
7523	P	A	A	CGCGCCGAGGAGTGATGTTTAAGCCTCATTAGG		
7523	P	T	A	CGCGCCGAGGTGTGATGTTTAAGCCTCATTAGG		
7523	T	A	A	TAGCCCTAATGAGGCTTAAACATCACTCGTTCCTTTTTTGCTGAATTCAGTTTCTCATTAGACTCTGTATCTTCTCC		
7523	T	T	A	TAGCCCTAATGAGGCTTAAACATCACACGTTCCTTTTTTGCTGAATTCAGTTTCTCATTAGACTCTGTATCTTCTCC		
7523	IS	[AT]		GGAGAAGATACAGAGTCTAATGAGAAACTGAATTCAGCAAAAAAGGAACG[AT]GTGATGTTTAAGCCTCATTAGGGCTATAGAACCAGCGTTCTGACAAAAAA	ctg22fin4	22
7531	I		S	TGCTGAGTGAAGTCGCCGCTCACTTTTGGATTCTTAA		
7531	P	A	S	CGCGCCGAGGTGGACTGTGAGTTAGTCTTCC		
7531	P	G	S	CGCGCCGAGGCGGACTGTGAGTTAGTCTTC		
7531	T	A	S	AGAGGGAAGACTAACTCACAGTCCATAAGAATCCAAAAGTGAGCGGCGACTTCACTCAGCAAC		
7531	T	G	S	AGAGGGAAGACTAACTCACAGTCCGTAAGAATCCAAAAGTGAGCGGCGACTTCACTCAGCAAC		
7531	IS	[AG]		TTTATACCCTTCCTGTGACTCCGTGTAGAGGGAAGACTAACTCACAGTCC[AG]TAAGAATCCAAAAGTGAGCGGCGACTTCACTCAGCAACCCATCCTGCCTC	ctg22fin6	22
7533	I		A	AGGGGACCAAGGTCAGCGAGAAAGGAGAGAAT		
7533	P	G	A	CGCGCCGAGGGAGGTATGGGATCCGGAC		
7533	P	C	A	CGCGCCGAGGCAGGTATGGGATCCGGA		
7533	T	G	A	GGCTGTCCGGATCCCATACCTCTTCTCTCCTTTCTCGCTGACCTTGGTCCCCTTT		
7533	T	C	A	GGCTGTCCGGATCCCATACCTGTTCTCTCCTTTCTCGCTGACCTTGGTCCCCTTT		

FIGURE 129B

7533	IS	[GC]		GACCCAGTCTGTGGCAAAAAGGGGACCAAGGTCAGCGAGAAAGGAGAGAA[GC]AGGTATGGGATCCGGACAGCCGAATCGAGAACCCAGCAGACGTGTGGGAT	ctg22fin7	22	
7536	I		A	GGCAGAGCCGGGGCTGCCCA			
7536	P	T	A	CGCGCCGAGGTTTCTGCTGGTGCCTC			
7536	P	C	A	CGCGCCGAGGCTTCTGCTGGTGCCTC			
7536	T	T	A	AAAGGAGGCACCAGCAGAAAGGGCAGCCCCGGCTCTGCCAG			
7536	T	C	A	AAAGGAGGCACCAGCAGAAGGGGCAGCCCCGGCTCTGCCAG			
7536	IS	[TC]		TTTGTTGTGACTTCCTCCCACCGCAGCAGCTGGCAGAGCCGGGGCTGCCC[TC]TTCTGCTGGTGCCTCCTTTCAGCCGCCTCTGTCTGGGGTTCCCTTCGTCT	ctg22fin4	22	
7537	I		A	TGGTAGCTTTATCCATACTGCCCACATTGAAAGCAACCTTC			
7537	P	T	A	CGCGCCGAGGTATGTTCTTCAGTAGGCGAATG			
7537	P	G	A	CGCGCCGAGGGATGTTCTTCAGTAGGCGAAT			
7537	T	T	A	GGTACATTCGCCTACTGAAGAACATAAAGGTTGCTTTCAATGTGGGCAGTATGGATAAAGCTACCATA			
7537	T	G	A	GGTACATTCGCCTACTGAAGAACATCAAGGTTGCTTTCAATGTGGGCAGTATGGATAAAGCTACCATA			
7537	IS	[TG]		GGAATGTTTATGGTAGCTTTATCCATACTGCCCACATTGAAAGCAACCTT[TG]ATGTTCTTCAGTAGGCGAATGTACCAACAAACTTTGTTACACTGATCAAT	ctg22fin4	22	
7541	I		A	GCAAATGGAAAAAAAAAAAAAAGAAGTGTGAGGTTCCCCCCCCAT			
7541	P	G	A	CGCGCCGAGGGCAACTCCTTGTTTTTTTGGAA			
7541	P	A	A	CGCGCCGAGGACAACTCCTTGTTTTTTTGGAAAC			
7541	T	G	A	CCGAGTTTCCAAAAAAACAAGGAGTTGCTGGGGGGGAACCTCACACTTCTTTTTTTTTTTTCCATTTGCAC			
7541	T	A	A	CCGAGTTTCCAAAAAAACAAGGAGTTGTTGGGGGGGAACCTCACACTTCTTTTTTTTTTTTCCATTTGCAC			
7541	IS	[GA]		AAATCAGTGCAAATGGAAAAAAAAAAAAAGAAGTGTGAGGTTCCCCCCCA[GA]CAACTCCTTGTTTTTTTGGAAACTCGGCTACACTTGGGCAGCTGCTTCCT			
7545	I		A	CACCAGCCTATGGCACACATCACCCCCT			
7545	P	A	A	CGCGCCGAGGATCCAGGATGCTCCATTG			
7545	P	G	A	CGCGCCGAGGGTCCAGGATGCTCCATTG			
7545	T	A	A	TCTGCAATGGAGCATCCTGGATGGGGGTGATGTGTGCCATAGGCTGGTGTG			
7545	T	G	A	TCTGCAATGGAGCATCCTGGACGGGGGTGATGTGTGCCATAGGCTGGTGTG			
7545	IS	[AG]		CTCCATGAAGTCTTTCCTGACCACACCAGCCTATGGCACACATCACCCCC[AG]TCCAGGATGCTCCATTGCAGAAGTGTATTGAGCATCCTTCAAAATAATCC	ctg22fin4	22	
7551	I		A	TCTTCCAGTTCATTTATTCTCTCTTTAGGTCTCTCTAACCTGTTTTAATCA			
7551	P	C	A	CGCGCCGAGGCCATCAATTGAGTTGTTACTGTG			
7551	P	T	A	CGCGCCGAGGTCATCAATTGAGTTGTTACTGTGT			
7551	T	C	A	AATAACACAGTAACAACTCAATTGATGGGATTAAAACAGGTTAGAGAGACCTAAAGAGAGAATAAATGAACTGGAAGA			
7551	T	T	A	AATAACACAGTAACAACTCAATTGATGAGATTAAAACAGGTTAGAGAGACCTAAAGAGAGAATAAATGAACTGGAAGA			
7551	IS	[CT]		TCTTCCAGTTCATTTATTCTCTCTTTAGGTCTCTCTAACCTGTTTTAATC[CT]CATCAATTGAGTTGTTACTGTGTTATTTCTAATTTCAGTTCCAGAATTTC	ctg22fin6	22	
7569	I		A	GGCTCAAGGACACAGGGAGGGTGGGATGT			
7569	P	A	A	CGCGCCGAGGAACCGAGGGGAGCTG			
7569	P	G	A	CGCGCCGAGGGACCGAGGGGAGCTG			
7569	T	A	A	TGGACAGCTCCCCTCGGTTCATCCCACCCTCCCTGTGTCCTTGAGCCTG			
7569	T	G	A	TGGACAGCTCCCCTCGGTCCATCCCACCCTCCCTGTGTCCTTGAGCCTG			
7569	IS	[AG]		ACATAAATGCTTACTGGGGCCAGGCTCAAGGACACAGGGAGGGTGGGATG[AG]ACCGAGGGGAGCTGTCCAGTCATTGGAACAGGCCCACGGCCCATGTTTGG	ctg22fin4	22	
7608	I		S	TTGACCATTTAGAAACTTTTCATTATTATTCATTTCTTTAGGTAGCTCCTT			
7608	P	T	S	CGCGCCGAGGAATTCTTGTCTAGGGCTGATTC			
7608	P	C	S	CGCGCCGAGGGATTCTTGTCTAGGGCTGATTC			
7608	T	T	S	GCAAGAATCAGCCCTAGACAAGAATTAGGAGCTACCTAAAGAAATGAATAATAATGAAAAGTTTCTAAATGGTCAA			
7608	T	C	S	GCAAGAATCAGCCCTAGACAAGAATCAGGAGCTACCTAAAGAAATGAATAATAATGAAAAGTTTCTAAATGGTCAA			
7608	IS	[TC]		GAGAAACTCTCTGAGGTAAAGATTAGCAAGAATCAGCCCTAGACAAGAAT[TC]AGGAGCTACCTAAAGAAATGAATAATAATGAAAAGTTTCTAAATGGTCAA	ctg22fin4	22	
7611	I		S	GCTCACTCTTCCAAGTGCCAGCTCCGCT			
7611	P	C	S	CGCGCCGAGGGGATGCCTTCCAGCTC			
7611	P	T	S	CGCGCCGAGGAGATGCCTTCCAGCTCC			
7611	T	C	S	AGGGGGAGCTGGAAGGCATCCGCGGAGCTGGCACTTGGAAGAGTGAGCGG			
7611	T	T	S	AGGGGGAGCTGGAAGGCATCTGCGGAGCTGGCACTTGGAAGAGTGAGCGG			
7611	IS	[CT]		CAGCGCTGGCCCAGCTGCGTGGCATTCTGGAGGGGGAGCTGGAAGGCATC[CT]GCGGAGCTGGCACTTGGAAGAGTGAGCGGGTCATCACGTCCCGTCAGGG G	ctg22fin4	22	GCAT
7615	I		A	TGCCTATTCCACACTTCTGGCCCTGGCTT			
7615	P	A	A	CGCGCCGAGGACAGGGTGGGTCCC			
7615	P	G	A	CGCGCCGAGGGCAGGGTGGGTCCC			
7615	T	A	A	TAGGGGGACCCACCCTGTAGCCAGGGCCAGAAGTGTGGAATAGGCAGG			
7615	T	G	A	TAGGGGGACCCACCCTGCAGCCAGGGCCAGAAGTGTGGAATAGGCAGG			
7615	IS	[AG]		GGGTCTTTCTCAAATGCAAACCTGCCTATTCCACACTTCTGGCCCTGGCT[AG]CAGGGTGGGTCCCCCTAACCCTCTTCATGGCCTCCTGGGGTCTGTCGCCA	ctg22fin4	22	
7618	I		A	CCTGCCTCTAAGCGCTGGTGTGAGGACTT			
7618	P	C	A	CGCGCCGAGGCCGTGTGCTCTCACAC			
7618	P	G	A	CGCGCCGAGGGCGTGTGCTCTCACAC			
7618	T	C	A	GCACGTGTGAGAGCACACGGAGTCCTCACACCAGCGCTTAGAGGCAGGCA			
7618	T	G	A	GCACGTGTGAGAGCACACGCAGTCCTCACACCAGCGCTTAGAGGCAGGCA			
7618	IS	[CG]		TGAAGTGGGAACGACAATCCTGCCTGCCTCTAAGCGCTGGTGTGAGGACT[CG]CGTGTGCTCTCACACGTGCAGGCTCAGCCTGTGCCCCACACATCCTCAGA	ctg22fin4	22	
7630	I		A	CAGGTGCTCCCTCCCAGCCGTCTA			
7630	P	C	A	CGCGCCGAGGCGCTGTGTCTTCACGAC			
7630	P	T	A	CGCGCCGAGGTGCTGTGTCTTCACGACA			
7630	T	C	A	GGGCTGTCGTGAAGACACAGCGAGACGGCTGGGAGGGAGCACCTGGC			
7630	T	T	A	GGGCTGTCGTGAAGACACAGCAAGACGGCTGGGAGGGAGCACCTGGC			
7630	IS	[CT]		TGATGCTGATGGAGCACTCACGTGTGCCAGGTGCTCCCTCCCAGCCGTCT[CT]GCTGTGTCTTCACGACAGCCCTGAATGATGGGAGTCACTACTATCCCTGG	ctg22fin5	22	
7631	I		S	GGTGCTGCTGTGGGTCTCCAACAAGCAAT			
7631	P	T	S	CGCGCCGAGGAGCCTAGAAGCAGGGACTTT			
7631	P	C	S	CGCGCCGAGGGGCCTAGAAGCAGGGATTT			
7631	T	T	S	TTGTGTCCCTGCTTCTAGGCTTTGCTTGTTGGAGACCCACAGCAGCACCTA			
7631	T	C	S	TTGTGTCCCTGCTTCTAGGCCTTGCTTGTTGGAGACCCACAGCAGCACCTA			
7631	IS	[TC]		CCAGCTCATCAGGTGAGTCCTACCTGGATTTTGTGTCCCTGCTTCTAGGC[TC]TTGCTTGTTGGAGACCCACAGCAGCACCTAGCCCTGGGTAAATACTTGTG	ctg22fin5	22	
7636	I		S	CCGTAGCTCCTCCTTAATGGGAGCCTTGCCA			
7636	P	A	S	CGCGCCGAGGTGTGACTATGTCGAGATCTTGA			
7636	P	G	S	CGCGCCGAGGCGTGACTATGTCGAGATCTTG			
7636	T	A	S	AATTTCAAGATCTCGACATAGTCACAGGCAAGGCTCCCATTAAGGAGGAGCTACGGCA			
7636	T	G	S	AATTTCAAGATCTCGACATAGTCACGGGCAAGGCTCCCATTAAGGAGGAGCTACGGCA			
7636	IS	[AG]		GCTGAATCGGGTGTGGCAAGGACATAATTTCAAGATCTCGACATAGTCAC[AG]GGCAAGGCTCCCATTAAGGAGGAGCTACGGCAGAAATCATTGGTGTCCTG	ctg22fin4	22	
7639	I		S	GGCTCCCAACAGGCATGCCCAGCTTCT			
7639	P	T	S	CGCGCCGAGGACCAGTTTTCTAAATTAGAGTGACT			
7639	P	C	S	CGCGCCGAGGGCCAGTTTTCTAAATTAGAGTGACT			
7639	T	T	S	GGACAGTCACTCTAATTTAGAAAACTGGTGAAGCTGGGCATGCCTGTTGGGAGCCTG			
7639	T	C	S	GGACAGTCACTCTAATTTAGAAAACTGGCGAAGCTGGGCATGCCTGTTGGGAGCCTG			

FIGURE 129B

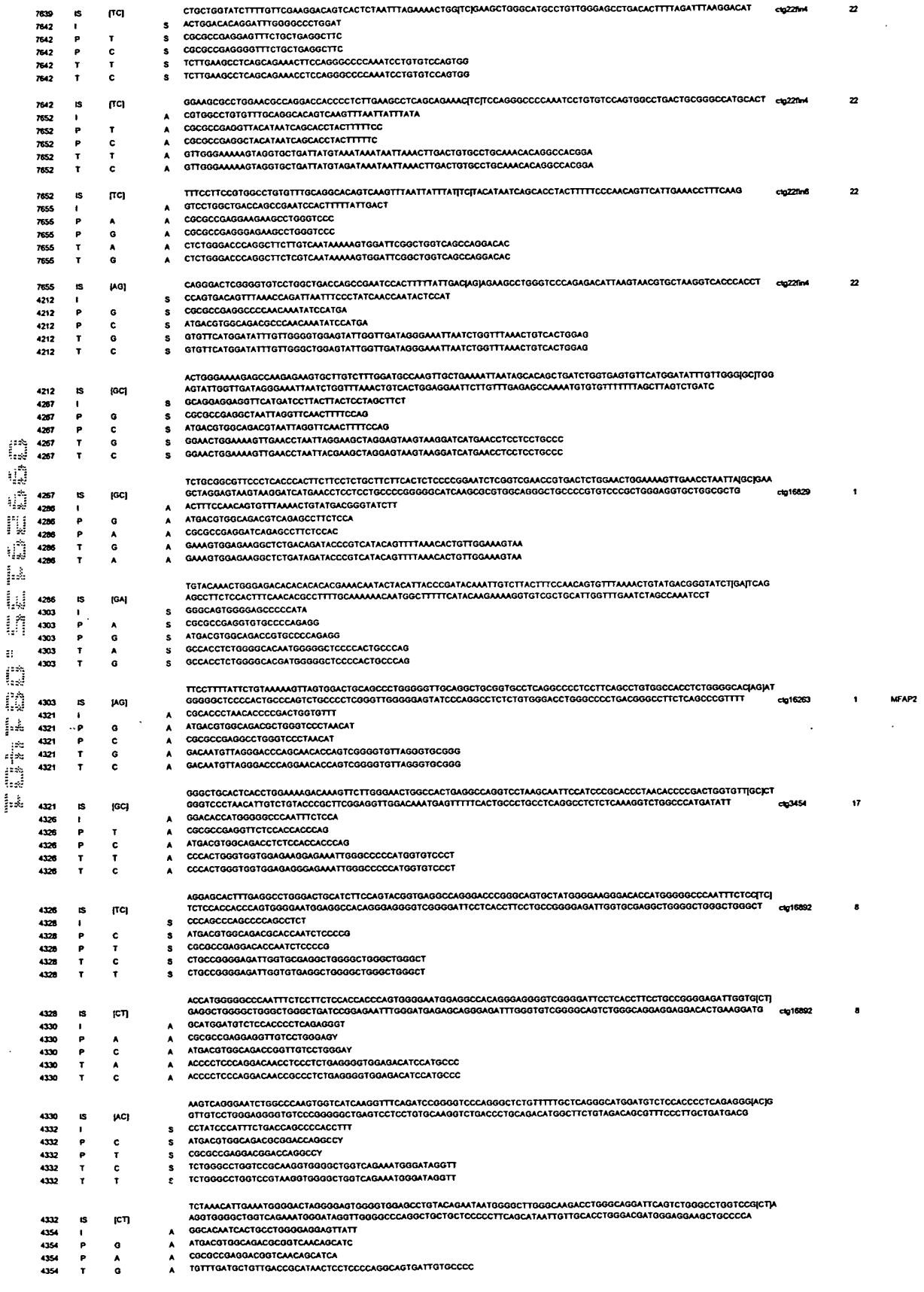

7639 IS [TC] CTGCTGGTATCTTTTGTTCGAAGGACAGTCACTCTAATTTAGAAAACTGG[TC]GAAGCTGGGCATGCCTGTTGGGAGCCTGACACTTTTAGATTTAAGGACAT ctg22fin4 22
7642 I S ACTGGACACAGGATTTGGGGCCCTGGAT
7642 P T S CGCGCCGAGGAGTTTCTGCTGAGGCTTC
7642 P C S CGCGCCGAGGGGTTTCTGCTGAGGCTTC
7642 T T S TCTTGAAGCCTCAGCAGAAACTTCCAGGGCCCCAAATCCTGTGTCCAGTGG
7642 T C S TCTTGAAGCCTCAGCAGAAACCTCCAGGGCCCCAAATCCTGTGTCCAGTGG
7642 IS [TC] GGAAGCGCCTGGAACGCCAGGACCACCCCTCTTGAAGCCTCAGCAGAAAC[TC]TCCAGGGCCCCAAATCCTGTGTCCAGTGGCCTGACTGCGGGCCATGCACT ctg22fin4 22
7652 I A CGTGGCCTGTGTTTGCAGGCACAGTCAAGTTTAATTATTTATA
7652 P T A CGCGCCGAGGTTACATAATCAGCACCTACTTTTTCC
7652 P C A CGCGCCGAGGCTACATAATCAGCACCTACTTTTTC
7652 T T A GTTGGGAAAAAGTAGGTGCTGATTATGTAAATAAATAATTAAACTTGACTGTGCCTGCAAACACAGGCCACGGA
7652 T C A GTTGGGAAAAAGTAGGTGCTGATTATGTAGATAAATAATTAAACTTGACTGTGCCTGCAAACACAGGCCACGGA
7652 IS [TC] TTTCCTTCCGTGGCCTGTGTTTGCAGGCACAGTCAAGTTTAATTATTTAT[TC]TACATAATCAGCACCTACTTTTTCCCAACAGTTCATTGAAACCTTTCAAG ctg22fin6 22
7655 I A GTCCTGGCTGACCAGCCGAATCCACTTTTTATTGACT
7655 P A A CGCGCCGAGGAAGAAGCCTGGGTCCC
7655 P G A CGCGCCGAGGGAGAAGCCTGGGTCCC
7655 T A A CTCTGGGACCCAGGCTTCTTGTCAATAAAAAGTGGATTCGGCTGGTCAGCCAGGACAC
7655 T G A CTCTGGGACCCAGGCTTCTCGTCAATAAAAAGTGGATTCGGCTGGTCAGCCAGGACAC
7655 IS [AG] CAGGGACTCGGGGTGTCCTGGCTGACCAGCCGAATCCACTTTTTATTGAC[AG]AGAAGCCTGGGTCCCAGAGACATTAAGTAACGTGCTAAGGTCACCCACCT ctg22fin4 22
4212 I S CCAGTGACAGTTTAAACCAGATTAATTTCCCTATCAACCAATACTCCAT
4212 P G S CGCGCCGAGGCCCCAACAAATATCCATGA
4212 P C S ATGACGTGGCAGACGCCCAACAAATATCCATGA
4212 T G S GTGTTCATGGATATTTGTTGGGGTGGAGTATTGGTTGATAGGGAAATTAATCTGGTTTAAACTGTCACTGGAG
4212 T C S GTGTTCATGGATATTTGTTGGGCTGGAGTATTGGTTGATAGGGAAATTAATCTGGTTTAAACTGTCACTGGAG
4212 IS [GC] ACTGGGAAAAGAGCCAAGAGAAGTGCTTGTCTTTGGATGCCAAGTTGCTGAAAATTAATAGCACAGCTGATCTGGTGAGTGTTCATGGATATTTGTTGGG[GC]TGG
4267 I S AGTATTGGTTGATAGGGAAATTAATCTGGTTTAAACTGTCACTGGAGGAATTCTTGTTTGAGAGCCAAAATGTGTGTTTTTTTAGCTTAGTCTGATC
4267 P G S GCAGGAGGAGGTTCATGATCCTTACTTACTCCTAGCTTCT
4267 P C S CGCGCCGAGGCTAATTAGGTTCAACTTTTCCAG
4267 T G S ATGACGTGGCAGACGTAATTAGGTTCAACTTTTCCAG
4267 T C S GGAACTGGAAAAGTTGAACCTAATTAGGAAGCTAGGAGTAAGTAAGGATCATGAACCTCCTCCTGCCC
4267 IS [GC] GGAACTGGAAAAGTTGAACCTAATTACGAAGCTAGGAGTAAGTAAGGATCATGAACCTCCTCCTGCCC
4286 I A TCTGCGGCGTTCCCTCACCCACTTCTTCCTCTGCTTCTTCACTCTCCCCGGAATCTCGGTCGAACCGTGACTCTGGAACTGGAAAAGTTGAACCTAATTA[GC]GAA
4286 P G A GCTAGGAGTAAGTAAGGATCATGAACCTCCTCCTGCCCCGGGGGCATCAAGCGCGTGGCAGGGCTGCCCCGTGTCCCGCTGGGAGGTGCTGGCGCTG ctg16829 1
4286 P A A ACTTTCCAACAGTGTTTAAAACTGTATGACGGGTATCTT
4286 T G A ATGACGTGGCAGACGTCAGAGCCTTCTCCA
4286 T A A CGCGCCGAGGATCAGAGCCTTCTCCAC
4286 IS [GA] GAAAGTGGAGAAGGCTCTGACAGATACCCGTCATACAGTTTTAAACACTGTTGGAAAGTAA
4303 I S GAAAGTGGAGAAGGCTCTGATAGATACCCGTCATACAGTTTTAAACACTGTTGGAAAGTAA
4303 P A S TGTACAAACTGGGAGACACACACACACGAAACAATACTACATTACCCGATACAAATTGTCTTACTTTCCAACAGTGTTTAAAACTGTATGACGGGTATCT[GA]TCAG
4303 P G S AGCCTTCTCCACTTTCAACACGCCTTTTGCAAAAAACAATGGCTTTTTCATACAAGAAAAGGTGTCGCTGCATTGGTTTGAATCTAGCCAAATCCT
4303 T A S GGGCAGTGGGGAGCCCCCATA
4303 T G S CGCGCCGAGGTGTGCCCCAGAGG
4303 IS [AG] ATGACGTGGCAGACCGTGCCCCAGAGG
4321 I A GCCACCTCTGGGGCACAATGGGGGCTCCCCACTGCCCAG
4321 P G A GCCACCTCTGGGGCACGATGGGGGCTCCCCACTGCCCAG
4321 P C A TTCCTTTTATTCTGTAAAAAGTTAGTGGACTGCAGCCCTGGGGGTTGCAGGCTGCGGTGCCTCAGGCCCCTCCTTCAGCCTGTGGCCACCTCTGGGGCAC[AG]AT
4321 T G A GGGGGCTCCCCACTGCCCAGTCTGCCCCTCGGGTTGGGGGAGTATCCCAGGCCTCTCTGTGGGACCTGGGCCCCTGACGGGCCTTCTCAGCCCGTTTT ctg16263 1 MFAP2
4321 T C A CGCACCCTAACACCCCGACTGGTGTTT
4321 IS [GC] ATGACGTGGCAGACGCTGGGTCCCTAACAT
4326 I A CGCGCCGAGGCCTGGGTCCCTAACAT
4326 P T A GACAATGTTAGGGACCCAGCAACACCAGTCGGGGTGTTAGGGTGCGGG
4326 P C A GACAATGTTAGGGACCCAGGAACACCAGTCGGGGTGTTAGGGTGCGGG
4326 T T A GGGCTGCACTCACCTGGAAAAGACAAAGTTCTTGGGAACTGGCCACTGAGGCCAGGTCCTAAGCAATTCCATCCCGCACCCTAACACCCCGACTGGTGTT[GC]CT
4326 T C A GGGTCCCTAACATTGTCTGTACCCGCTTCGGAGGTTGGACAAATGAGTTTTTCACTGCCCTGCCTCAGGCCTCTCTCAAAGGTCTGGCCCATGATATT ctg3454 17
4326 IS [TC] GGACACCATGGGGGCCCAATTTCTCCA
4328 I S CGCGCCGAGGTTCTCCACCACCCAG
4328 P C S ATGACGTGGCAGACCTCTCCACCACCCAG
4328 P T S CCCACTGGGTGGTGGAGAAGGAGAAATTGGGCCCCCATGGTGTCCCT
4328 T C S CCCACTGGGTGGTGGAGAGGGAGAAATTGGGCCCCCATGGTGTCCCT
4328 T T S AGGAGCACTTTGAGGCCTGGGACTGCATCTTCCAGTACGGTGAGGCCAGGGACCCGGGCAGTGCTATGGGGAAGGGACACCATGGGGGCCCCAATTTCTCC[TC]
4328 IS [TC] TCTCCACCACCCAGTGGGGAATGGAGGCCACAGGGAGGGGTCGGGGATTCCTCACCTTCCTGCCGGGGAGATTGGTGCGAGGCTGGGGCTGGGCTGGGCT ctg16892 8
4328 I S CCCAGCCCAGCCCCAGCCTCT
4328 P C S ATGACGTGGCAGACGCACCAATCTCCCCG
4328 P T S CGCGCCGAGGACACCAATCTCCCCG
4328 T C S CTGCCGGGGAGATTGGTGCGAGGCTGGGGCTGGGCTGGGCT
4328 T T S CTGCCGGGGAGATTGGTGTGAGGCTGGGGCTGGGCTGGGCT
4328 IS [CT] ACCATGGGGGCCCAATTTCTCCTTCTCCACCACCCAGTGGGGAATGGAGGCCACAGGGAGGGGTCGGGGATTCCTCACCTTCCTGCCGGGGAGATTGGTG[CT]
4330 I A GAGGCTGGGGCTGGGCTGGGCTGATCCGGAGAAATTGGGATGAGAGCAGGGAGATTTGGGTGTCGGGGCAGTCTGGGCAGGAGGAGGACACTGAAGGATG ctg16892 8
4330 P A A GCATGGATGTCTCCACCCCTCAGAGGGT
4330 P C A CGCGCCGAGGAGGTTGTCCTGGGAGY
4330 T A A ATGACGTGGCAGACCGGTTGTCCTGGGAY
4330 T C A ACCCCTCCCAGGACAACCTCCCTCTGAGGGGTGGAGACATCCATGCCC
4330 IS [AC] ACCCCTCCCAGGACAACCGCCCTCTGAGGGGTGGAGACATCCATGCCC
4332 I S AAGTCAGGGAATCTGGCCCAAGTGGTCATCAAGGTTTCAGATCCGGGGTCCCAGGGCTCTGTTTTTGCTCAGGGCATGGATGTCTCCACCCCTCAGAGGG[AC]G
4332 P C S GTTGTCCTGGGAGGGGTGTCCCGGGGGCTGAGTCCTCCTGTGCAAGGTCTGACCCTGCAGACATGGCTTCTGTAGACAGCGTTTCCCTTGCTGATGACG
4332 P T S CCTATCCCATTTCTGACCAGCCCCACCTTT
4332 T C S ATGACGTGGCAGACGCGGACCAGGCCY
4332 T T S CGCGCCGAGGACGGACCAGGCCY
4332 IS [CT] TCTGGGCCTGGTCCGCAAGGTGGGGCTGGTCAGAAATGGGATAGGTT
4354 I A TCTGGGCCTGGTCCGTAAGGTGGGGCTGGTCAGAAATGGGATAGGTT
4354 P G A TCTAAACATTGAAATGGGGACTAGGGGAGTGGGGTGGAGCCTGTACAGAATAATGGGGCTTGGGCAAGACCTGGGCAGGATTCAGTCTGGGCCTGGTCCG[CT]A
4354 P A A AGGTGGGGCTGGTCAGAAATGGGATAGGTTGGGGCCCAGGCTGCTGCTCCCCCTTCAGCATAATTGTTGCACCTGGGACGATGGGAGGAAGCTGCCCCA
4354 T G A GGCACAATCACTGCCTGGGGAGGAGTTATT
ATGACGTGGCAGACGCGGTCAACAGCATC
CGCGCCGAGGACGGTCAACAGCATCA
TGTTTGATGCTGTTGACCGCATAACTCCTCCCCAGGCAGTGATTGTGCCCC



FIGURE 129B

4354	T	A	A	TGTTTGATGCTGTTGACCGTATAACTCCTCCCCAGGCAGTGATTGTGCCCC			
4354	IS	[GA]		CGGATCAGAGAAGAAAGACTTTTACAAGGATGGGAAACGGCTGAAGAATTACAACATGCCCTGGGGGGCGGGGCACAATCACTGCCTGGGGAGGAGTTAT[GA]C GGTCAACAGCATCAAACAGTGAGTGGGGGGCCAGGGCAGGGCCAGGGTGGCTCCTGATCCCCTGGTTGGCAGGCGCCCTTCTCTCCTGGGAAC			
4370	I		S	AGATGCTTTACCGCCCTGCTCCCTGA			
4370	P	G	S	ATGACGTGGCAGACGCCCTGCCCCCAAG			
4370	P	A	S	CGCGCCGAGGGTCCTGCCCCCAAG			
4370	T	G	S	AAAGCTTGGGGGCAGGGCCAGGGAGCAGGGCGGTAAAGCATCTGG			
4370	T	A	S	AAAGCTTGGGGGCAGGACCAGGGAGCAGGGCGGTAAAGCATCTGG			
4370	IS	[GA]		AGCCAGAAATTGACAGCCCAGGGGGTAAGAAGGCCCTGGATCCTTATGGCTTCTTAGATGAGGGAGAACCACGTAGGGATGGAGAAAGCTTGGGGGCAGG[GA]C CAGGGAGCAGGGCGGTAAAGCATCTGGGGTACTGACACATTGTGAATTAGCTACGGCTGCCATGCCTTAAGGTTTGCCTGAAGCTGAGTGGATGTTTAC	ctg16105	5	
4375	I		S	AGAGCTCCTCTGAGGCTGAGGGAGCATA			
4375	P	G	S	ATGACGTGGCAGACCGCCCCGAAGGAC			
4375	P	A	S	CGCGCCGAGGTGCCCCGAAGGAC			
4375	T	G	S	TGGGGTCCTTCGGGGCGATGCTCCCTCAGCCTCAGAGGAGCTCTAC			
4375	T	A	S	TGGGGTCCTTCGGGGCAATGCTCCCTCAGCCTCAGAGGAGCTCTAC			
4375	IS	[GA]		AAATGAATCTCGTTCCCAAAGAACTACCCCCTTTTCAGCTGAGCCCTGGGGACTGTTCCAAAGCCAGTGAAATGTGAAGGAAAGTGGGGTCCTTCGGGGC[GA]AT GCTCCCTCAGCCTCAGAGGAGCTCTACCCTGCTCCCTGCTTTGGCTGAGGGGCTTGGGAAAAAAACTTGGCACTTTTTCGTGTGGATCTTGCCACATT	ctg16105	5	IRF1
4387	I		S	ACAATCAGGTAGCATAACTACTTTTTAAAACTATGCCCTCAATC			
4387	P	C	S	ATGACGTGGCAGACGGTATAGATAGCAACATAGCTG			
4387	P	A	S	CGCGCCGAGGTGTATAGATAGCAACATAGCTG			
4387	T	C	S	CAAACAGCTATGTTGCTATCTATACCATTGAGGGCATAGTTTTAAAAAGTAGTTATGCTACCTGATTGTAT			
4387	T	A	S	CAAACAGCTATGTTGCTATCTATACAATTGAGGGCATAGTTTTAAAAAGTAGTTATGCTACCTGATTGTAT			
4387	IS	[CA]		ATTATCTGAGAAAATCAAATGATGCTGTTACAATAATTACGCTGGTACAAGTTAATAAAAGTGCCATGTTACAGTCAAACAGCTATGTTGCTATCTATAC[CA]ATTGA GGGCATAGTTTTAAAAAGTAGTTATGCTACCTGATTGTATAAGGAACAAAACTGAGAGAAAAAATCTAAAAGGCCGCCTATGATTGAATGGAAAG	ctg14391	11	
4388	I		A	GCCCTTCCATAGCCTAATCCCTGGGCATTGA			
4388	P	C	A	ATGACGTGGCAGACCTTTCCACTGAGGTTGG			
4388	P	T	A	CGCGCCGAGGTTTTCCACTGAGGTTGG			
4388	T	C	A	ACCCCCAACCTCAGTGGAAAGCAATGCCCAGGGATTAGGCTATGGAAGGGCAA			
4388	T	T	A	ACCCCCAACCTCAGTGGAAAACAATGCCCAGGGATTAGGCTATGGAAGGGCAA			
4388	IS	[CT]		ACCAGCTAAGGACATTTCCCAGGGTTAATAGGGCCTGGTCCCTGGGAGGAAATTTGAATGGGTCCATTTTGCCCTTCCATAGCCTAATCCCTGGGCATTG[CT]TTT CCACTGAGGTTGGGGGTTGGGGTGTACTAGTTACATATCTTCAACAGACCCCCTCTAGAAATTTTTCAGATGCTTCTGGGAGACACCCAAAGGGTGA	ctg14391	11	CD44
4399	I		A	TGCCAAAAAGGAATACTACATAAGGACAGCAACATGCCTT			
4399	P	A	A	CGCGCCGAGGATGGACATGAGAGAATTTGT			
4399	P	G	A	ATGACGTGGCAGACGTGGACATGAGAGAATTTGT			
4399	T	A	A	TAAGACAAATTCTCTCATGTCCATAGGCATGTTGCTGTCCTTATGTAGTATTCCTTTTTGGCAGA			
4399	T	G	A	TAAGACAAATTCTCTCATGTCCACAGGCATGTTGCTGTCCTTATGTAGTATTCCTTTTTGGCAGA			
4399	IS	[AG]		TTTACTCTGTTTTTCCAGGAAAAAGATATTCACTCAGGCTTGATAGGTCCCCTCCTAATCTGCCAAAAAGGAATACTACATAAGGACAGCAACATGCCT[AG]TGGAC ATGAGAGAATTTGTCTTACTATTTATGACCTTTGATGAAAAGAAGAGCTGGTACTATGAAAAGAAGTCCCGAAGTTCTTGGAGACTCACATCCTC	ctg13446	1	
4482	I		A	AGCGGGTCTACACTGCCAAGTGAGTCCTAAT			
4482	P	A	A	CGCGCCGAGGACCTGATGTTGCTAATAAGTG			
4482	P	C	A	ATGACGTGGCAGACCCCTGATGTTGCTAATAAGT			
4482	T	A	A	CCCCCACTTATTAGCAACATCAGGTTTAGGACTCACTTGGCAGTGTAGACCCGCTCA			
4482	T	C	A	CCCCCACTTATTAGCAACATCAGGGTTAGGACTCACTTGGCAGTGTAGACCCGCTCA			
4482	IS	[AC]		CATAAAGTGGAGCACGAAAGCAGGACCCAGAATGGGAGGAGCTTCCAGAGGACCGGAACACTTGCCTTTGAGCGGGTCTACACTGCCAAGTGAGTCCTAA[AC]C CTGATGTTGCTAATAAGTGGGGGCATGGGCAGGGGGGCCTCCTTCTAGGAGTGATGACCACCCTTAATACCACATGTCTGTCTGAGCCAAGTTTCTGAG			
4507	I		S	GGGACGGTCCAGATCGATGGCCACCT			
4507	P	G	S	ATGACGTGGCAGACCACTGAGCCGCTG			
4507	P	T	S	CGCGCCGAGGAACTGAGCCGCTGC			
4507	T	G	S	CGTAGCAGCGGCTCAGTGGGTGGCCATCGATCTGGACCGTCCCCT			
4507	T	T	S	CGTAGCAGCGGCTCAGTTGGTGGCCATCGATCTGGACCGTCCCCT			
4507	IS	[GT]		TTTAGAAGAAGAGCTGAAATGTCAGGAACAAAAAGAAGAACAGCTGCAGGAAGGGGTGCACCGGAAGGAGCCCCAGGGGGCCACGTAGCAGCGGCTCAGT[GT]G GTGGCCATCGATCTGGACCGTCCCCTGCCCACTTGCTCCCCATGAGCACTGCGTACAAACATCCAAAAGTTCAACAACACCAGAACTGTGTGTCTCATG	ctg12414	1	
4630	I		S	GCTCCTTTCACAACCACTCTGGTATCTTACCCTCCTTAA			
4630	P	G	S	ATGACGTGGCAGACCGAGCAGGTACAAGGY			
4630	P	A	S	CGCGCCGAGGTGAGCAGGTACAAGGCY			
4630	T	G	S	ACGCGCCTTGTACCTGCTCGTAAGGAGGGTAAGATACCAGAGTGGTTGTGAAAGGAGCCC			
4630	T	A	S	ACGCGCCTTGTACCTGCTCATAAGGAGGGTAAGATACCAGAGTGGTTGTGAAAGGAGCCC			
4630	IS	[GA]		TGGGGCCGAGGAGCATGAAGTCTGTCGCTATAAAGAGGCCCTTGAACAATGTCGGCAGCTGTATTGGCGGAGAGACCTGGAACGCGCCTTGTACCTGCTC[GA]T AAGGAGGGTAAGATACCAGAGTGGTTGTGAAAGGAGCCCAGGAAAGGGGGAGGGCAAGGGAAGAGGAAACTACAGCTGGTTCTAGAGGCCTTTGCAGCT	ctg15907	6	
4652	I		A	GTAGGGAGTTTTTCTCTTCAGGCTGCCAGA			
4652	P	T	A	CGCGCCGAGGTCACCTCCTGGGCTY			
4652	P	C	A	ATGACGTGGCAGACCCACCTCCTGGGCY			
4652	T	T	A	GTGGAGCCCAGGAGGTGACTGGCAGCCTGAAGAGAAAAACTCCCTACAT			
4652	T	C	A	GTGGAGCCCAGGAGGTGGCTGGCAGCCTGAAGAGAAAAACTCCCTACAT			
4652	IS	[TC]		TTTCAGACTGTCTGTCCAATGTTGTACACTTAGTGTTCATTGAGTAGAAATTCCTCTGTGTTGGTATTTATGTAGGGAGTTTTTCTCTTCAGGCTGCCAG[TC]CACC TCCTGGGCTCCACCATGGTCGTCATACAGGTGGAAAATACGGTCTTCTTTGTCTCTGGGATGACTGTAGACTACACTTGTGACCCTGGCTATTTGC	ctg25114	1	
4674	I		A	CATCTTTATACTTAAGAAAATGTATTTGGAATCGTAATGTACTCATGCTCATT			
4674	P	G	A	ATGACGTGGCAGACGCCTTTACATGTTCCAGGY			
4674	P	A	A	CGCGCCGAGGACCTTTACATGTTCCAGGY			
4674	T	G	A	TAGACCTGGAACATGTAAAGGCATGAGCATGAGTACATTACGATTCCAAATACATTTTCTTAAGTATAAAGATGTT			
4674	T	A	A	TAGACCTGGAACATGTAAAGGTATGAGCATGAGTACATTACGATTCCAAATACATTTTCTTAAGTATAAAGATGTT			
4674	IS	[GA]		TTTTAGTTCTAATGTAAGAGATTGTTAACAGTGAGAGTCCCGGAGTAACATCTTTATACTTAAGAAAATGTATTTGGAATCGTAATGTACTCATGCTCAT[GA]CCTTT ACATGTTCCAGGTCTACAGGTCCAACTGCTGCCACTGGCAGTAATCGAAGACTTCAGCAGACACAAAATCAAGTAGATGAGGTATTGCTCTGAAA	ctg1565	1	
4893	I		A	GGTGGGTAACCAAGTCCCTGGAAGGCAATTT			
4893	P	G	A	ATGACGTGGCAGACGAGGCGCCCATTTC			
4893	P	A	A	CGCGCCGAGGAAGGCGCCCATTTC			
4893	T	G	A	TTCTGAAATGGGCGCCTCAATTGCCTTCCAGGGACTTGGTTACCCACCTT			
4893	T	A	A	TTCTGAAATGGGCGCCTTAATTGCCTTCCAGGGACTTGGTTACCCACCTT			
4893	IS	[GA]		GGGCTATCCAAGCGCGGAGTCAGTTTATAAGGTGGGTAACCAAGTCCCTGGAAGGCAATT[GA]AGGCGCCCATTTCAGAAGAGTTACAGCCGTGAAAATTACTCA GCAGTGCAGTTGGCTGAG	ctg14747	2	
4925	I		S	CCTCATCTACCCAGCAACTGTCGACGTCACAA			
4925	P	G	S	ATGACGTGGCAGACCGACCTGGGCCTC			
4925	P	A	S	CGCGCCGAGGTGACCTGGGCCTC			
4925	T	G	S	CAGGGAGGCCCAGGTCGTGTGACGTCGACAGTTGCTGGGTAGATGAGGCC			
4925	T	A	S	CAGGGAGGCCCAGGTCATGTGACGTCGACAGTTGCTGGGTAGATGAGGCC			
4925	IS	[GA]		ACCTCAGAACAGTAGGCGGGATTGCCTAGTAAATATCTCCCATTCAGGGAGGCCCAGGTC[GA]TGTGACGTCGACAGTTGCTGGGTAGATGAGGCCAACACAGG TTGCAAGAAGAGGCGGGGT	ctg15907	6	
4936	I		S	TGGCCTCACGTCTCCCCCAGAACTCTAT			

FIGURE 129B

4936	P	G	S	CGCGCCGAGGCTCAGGTCAATGGTGG			
4936	P	C	S	ATGACGTGGCAGACGTCAGGTCAATGGTGG			
4936	T	G	S	GAGCCCACCATTGACCTGAGTAGAGTTCTGGGGGAGACGTGAGGCCAGT			
4936	T	C	S	GAGCCCACCATTGACCTGACTAGAGTTCTGGGGGAGACGTGAGGCCAGT			
4936	IS	[GC]		GGGGTCAGCTGGGAGACAAGCTCCGGATAGAGCTGGACATTGAGCCCACCATTGACCTGA[GC]TAGAGTTCTGGGGGAGACGTGAGGCCAGTACGAGGCCATG GTGGAGACCAATCGCCAGGA	ctg17036	17	
4954	I		S	GGTAATGGTGGCCTTGCTGCCTAGGGACA			
4954	P	A	S	CGCGCCGAGGTGGATGGAAAGGGGAT			
4954	P	G	S	ATGACGTGGCAGACCGGATGGAAAGGGGA			
4954	T	A	S	CCCCATCCCCTTTCCATCCAGTCCCTAGGCAGCAAGGCCACCATTACCCA			
4954	T	G	S	CCCCATCCCCTTTCCATCCGGTCCCTAGGCAGCAAGGCCACCATTACCCA			
4954	IS	[AG]		TTCCAACCACCCTCGTCCAGGACTGAGGCCTGGCTCCCACGCCCCATCCCCTTTCCATCC[AG]GTCCCTAGGCAGCAAGGCCACCATTACCCAGGAGGTAGGGA CCCTGATTAAGGTGTCACA	ctg17042	11	
5039	I		S	CAGCAAGATTGAAACCCAGGCTTATCTGACCCCT			
5039	P	C	S	ATGACGTGGCAGACGGTGTGAAACCTCATGTC			
5039	P	G	S	CGCGCCGAGGCGTGTGAAACCTCATGT			
5039	T	C	S	GTAGGACATGAGGTTTCACACCGGGGTCAGATAAGCCTGGGTTTCAATCTTGCTGTG			
5039	T	G	S	GTAGGACATGAGGTTTCACACGGGGGTCAGATAAGCCTGGGTTTCAATCTTGCTGTG			
5039	IS	[CG]		ATGTGAGTTTAAGACCATCAGCTAGGAAAGTGGAAAGCAGTAGGACATGAGGTTTCACAC[CG]GGGGTCAGATAAGCCTGGGTTTCAATCTTGCTGTGTCATTTAG AATGCTTTTGATTGCAA	ctg15064	7	
5079	I		A	AGGCTTGCTCCTCCCCCACCCAT			
5079	P	G	A	ATGACGTGGCAGACGCTCTCGTTTCCAATGC			
5079	P	A	A	CGCGCCGAGGACTCTCGTTTCCAATGC			
5079	T	G	A	ACGTGCATTGGAAACGAGAGCTGGGTGGGGGAGGAGCAAGCCTGG			
5079	T	A	A	ACGTGCATTGGAAACGAGAGTTGGGTGGGGGAGGAGCAAGCCTGG			
5079	IS	[GA]		TGCAAAAGGGCGCTCTGTGAGTCAGCCTGCTCCCCTCCAGGCTTGCTCCTCCCCCACCCA[GA]CTCTCGTTTCCAATGCACGTACAGCCCGTACACACCGTGTGC TGGGACACCCCACAGTCA	ctg15071	9	
5224	I		A	TGCAGGCCCCAAGAGCTTGCCCT			
5224	P	G	A	ATGACGTGGCAGACGTTGCGCTGTCCTC			
5224	P	A	A	CGCGCCGAGGATTGCGCTGTCCTCA			
5224	T	G	A	ACCCTGAGGACAGCGCAACGGGCAAGCTCTTGGGGCCTGCACC			
5224	T	A	A	ACCCTGAGGACAGCGCAATGGGCAAGCTCTTGGGGCCTGCACC			
5224	IS	[GA]		GGGTCCCCCGTGCCACAGCCTGGGTTGGGGTGAAATGGTGCAGGCCCCAAGAGCTTGCCC[GA]TTGCGCTGTCCTCAGGGTGCATGAGCTGGAGGAGATGGTG AAGGATCAGGAGACCACGGC	ctg17403	17	
5260	I		A	CTTGGACTTGTTTTCCACCCTCTGCAATGACCTA			
5260	P	T	A	CGCGCCGAGGTGTCAACTCAGCCCA			
5260	P	C	A	ATGACGTGGCAGACCGTCAACTCAGCCCA			
5260	T	T	A	TCCCTGGGCTGAGTTGACAAGGTCATTGCAGAGGGTGGAAAACAAGTCCAAGAG			
5260	T	C	A	TCCCTGGGCTGAGTTGACGAGGTCATTGCAGAGGGTGGAAAACAAGTCCAAGAG			
5260	IS	[TC]		GGAGGCTCCAAGTGGGGCCCTCTCCCTCTTGGACTTGTTTTCCACCCTCTGCAATGACCT[TC]GTCAACTCAGCCCAGGGATTTGTCTCCTCCACCTGGACATAC TACTTGCAGACTGACAAT	ctg17207	19	BSMAP
5277	I		A	CTGCGCTTCACCAGTGCCCCAGAA			
5277	P	C	A	ATGACGTGGCAGACCGATGACGTGGCCA			
5277	P	T	A	CGCGCCGAGGTGATGACGTGGCCAT			
5277	T	C	A	ACCCATGGCCACGTCATCGTCTGGGGCACTGGTGAAGCGCAGCA			
5277	T	T	A	ACCCATGGCCACGTCATCATCTGGGGCACTGGTGAAGCGCAGCA			
5277	IS	[CT]		GCCCTACAAGCTGGGACGCCAGTGGCCGGAGCTGCTGCTGCGCTTCACCAGTGCCCCAGA[CT]GATGACGTGGCCATGGGTCAGTGCTGCTGCCTGTCTGTCC TTGCCTCGGGACCACCTGAG	ctg17042	11	
5297	I		A	ACCCCAGGGACACCCAACTGTTCTGCA			
5297	P	T	A	CGCGCCGAGGTGGGAGCAACTATACAGAAY			
5297	P	C	A	ATGACGTGGCAGACCGGGAGCAACTATACAGAY			
5297	T	T	A	CCCTTTCTGTATAGTTGCTCCCAGCAGAACAGTTGGGTGTCCCTGGGGTGA			
5297	T	C	A	CCCTTTCTGTATAGTTGCTCCCGGCAGAACAGTTGGGTGTCCCTGGGGTGA			
5297	IS	[TC]		AACAGCAGTTAGGCTGGGTAAGCCTGATTAATTCACCCCAGGGACACCCAACTGTTCTGC[TC]GGGAGCAACTATACAGAAAGGGGAAGGAGGGGTTGTCAGTGT ACCGACCCTCAACCTGCT	ctg16400	17	
5316	I		A	CCTCTTGTTTACAGACATGCCTCAGACAAAATTCAAAGCCTT			
5316	P	A	A	CGCGCCGAGGATGTCATCAGAGAGTGAAAAGY			
5316	P	G	A	ATGACGTGGCAGACGTGTCATCAGAGAGTGAAAAY			
5316	T	A	A	TATCCTTTTCACTCTCTGATGACATAGGCTTTGAATTTTGTCTGAGGCATGTCTGTAAACAAGAGGCC			
5316	T	G	A	TATCCTTTTCACTCTCTGATGACACAGGCTTTGAATTTTGTCTGAGGCATGTCTGTAAACAAGAGGCC			
5316	IS	[AG]		TCTTGAAGTGGCCATTGGGCCTCTTGTTTACAGACATGCCTCAGACAAAATTCAAAGCCT[AG]TGTCATCAGAGAGTGAAAAGGATATGTCTTGTGTTAGATGGAAA AAATGGGCATGTCACA	ctg16105	5	
5348	I		S	GCGGCTCTGCGCTGAATCTGGCGA			
5348	P	G	S	ATGACGTGGCAGACCAAGGAGACCACTACAGA			
5348	P	A	S	CGCGCCGAGGTAAGGAGACCACTACAGAG			
5348	T	G	S	GCCTCTCTGTAGTGGTCTCCTTGCGCCAGATTCAGCGCAGAGCCGCCC			
5348	T	A	S	GCCTCTCTGTAGTGGTCTCCTTACGCCAGATTCAGCGCAGAGCCGCCC			
5348	IS	[GA]		CCTCTGGCCTGACTCACACCTGCCTCCTCTGTGCCTTGGCCTCTCTGTAGTGGTCTCCTT[GA]CGCCAGATTCAGCGCAGAGCCGCCCAGGAAAAGGAGCGGAG CCAGGAACTCAGGCGTCTG	ctg15907	6	
5364	I		S	TGTGAGGGTGGGACATGGAACAGATCCTCTGT			
5364	P	C	S	ATGACGTGGCAGACGGAAATCAGGCTGTAGC			
5364	P	T	S	CGCGCCGAGGAGAAATCAGGCTGTAGC			
5364	T	C	S	AAAGGCTACAGCCTGATTTCCCAGAGGATCTGTTCCATGTCCCACCCTCACAAG			
5364	T	T	S	AAAGGCTACAGCCTGATTTCTCAGAGGATCTGTTCCATGTCCCACCCTCACAAG			
5364	IS	[CT]		AATGCTAAGACAAAGAGATGGGCTGGGGGTAGGAAAAGGTAAAGGCTACAGCCTGATTTC[CT]CAGAGGATCTGTTCCATGTCCCACCCTCACAAGACAGATTAG ACACACACTCTACCTCCT	ctg22fin4	22	
5390	I		A	CACCAAGGGCCCCAACGACCACCT			
5390	P	G	A	ATGACGTGGCAGACGGGTCGTTCAAACCCY			
5390	P	C	A	CGCGCCGAGGCGGTCGTTCAAACCCY			
5390	T	G	A	CTGTGGGTTTGAACGACCCGGTGGTCGTTGGGGCCCTTGGTGGG			
5390	T	C	A	CTGTGGGTTTGAACGACCGGGTGGTCGTTGGGGCCCTTGGTGGG			
5390	IS	[GC]		ACGGGCCAGCTGCCAACAGCATCTCCGTCAGGACCCCCACCAAGGGCCCCAACGACCACC[GC]GGTCGTTCAAACCCACAGCCGCCAATCCAGCCACCGCCACT AGGGGCACCACTGCTGCGG	ctg19247	7	
5406	I		A	GTCTTCAAGGGTTGGCCAGTGCCCCT			
5406	P	G	A	ATGACGTGGCAGACGGCTTTCATCCTGGTCY			
5406	P	A	A	CGCGCCGAGGAGCTTTCATCCTGGTCCY			
5406	T	G	A	TTGAGGACCAGGATGAAAGCCGGGGCACTGGCCAACCCTTGAAGACAC			
5406	T	A	A	TTGAGGACCAGGATGAAAGCTGGGGCACTGGCCAACCCTTGAAGACAC			
5406	IS	[GA]		CGATAAGTTGTGGGACCAGCCCACAAGTTGCCAGTGTCTTCAAGGGTTGGCCAGTGCCCC[GA]GCTTTCATCCTGGTCCTCAACAGGCTTGTTTGTCTGTCAACA GCAATCACTGCTTGAGAA	ctg15114	X	
5450	I		A	ACCAAGATGCATTGGCCAGTGATATTTACCCTAT			
5450	P	A	A	CGCGCCGAGGATGAGAGCAAGAGAGCG			
5450	P	G	A	ATGACGTGGCAGACGTGAGAGCAAGAGAGC			
5450	T	A	A	CTGCCGCTCTCTTGCTCTCATTAGGGTAAATATCACTGGCCAATGCATCTTGGTTT			
5450	T	G	A	CTGCCGCTCTCTTGCTCTCACTAGGGTAAATATCACTGGCCAATGCATCTTGGTTT			
5450	IS	[AG]		AGAAGCTAGCTCCAGACAGAATCAAAAACCAAGATGCATTGGCCAGTGATATTTACCCTA[AG]TGAGAGCAAGAGAGCGGCAGTTGTGGCAAGAATTTGACAGAGA AGATTGAGGTAGGGCCG	ctg13206	14	
5464	I		S	AGACCATGGAGGCTGTGAGCTTAACCTGTGAA			
5464	P	G	S	ATGACGTGGCAGACCCCTGAGACTCCAGAC			

FIGURE 129B

5464	P	A	S	CGCGCCGAGGTCCTGAGACTCCAGAC			
5464	T	G	S	TTGCGTCTGGAGTCTCAGGGTCACAGGTTAAGCTCACAGCCTCCATGGTCTCC			
5464	T	A	S	TTGCGTCTGGAGTCTCAGGATCACAGGTTAAGCTCACAGCCTCCATGGTCTCC			
5464	IS	[GA]		AGTCATAGGGAGGCTCTGACCATTCATCCACCACAGGTAGCTTGCGTCTGGAGTCTCAGG[GA]TCACAGGTTAAGCTCACAGCCTCCATGGTCTCCCTGGGATTT AAGTTGCTGCTGGAGATG	ctg15842	19	MULTIPLE SHORT GENE NAMES
5481	I		A	TGGCTGAACTGGTTAAAGAACAGTCTGGAATTCCAAAGGC			
5481	P	G	A	ATGACGTGGCAGACGTATCTCTAATGGGAACCAAGY			
5481	P	T	A	CGCGCCGAGGTTATCTCTAATGGGAACCAAGY			
5481	T	G	A	GTGTCTTGGTTCCCATTAGAGATACCCTTTGGAATTCCAGACTGTTCTTTAACCAGTTCAGCCAAG			
5481	T	T	A	GTGTCTTGGTTCCCATTAGAGATAACCTTTGGAATTCCAGACTGTTCTTTAACCAGTTCAGCCAAG			
5481	IS	[GT]		GGACAGAGAGAACAAGGCGCTTGGCTGAACTGGTTAAAGAACAGTCTGGAATTCCAAAGG[GT]TATCTCTAATGGGAACCAAGACACTGAGTATCACATTGGGCT GCGTGGGTTGCAAAGCCT	ctg14007	17	
5489	I		S	GCTGATTTTGCTACAGAAAAAGGTAAACAATGAACACAGAAATA			
5489	P	G	S	ATGACGTGGCAGACCAGTCTGTCATGGCAGY			
5489	P	A	S	CGCGCCGAGGTAGTCTGTCATGGCAGATY			
5489	T	G	S	GACAATCTGCCATGACAGACTGATTTCTGTGTTCATTGTTTACCTTTTTCTGTAGCAAAATCAGCTT			
5489	T	A	S	GACAATCTGCCATGACAGACTAATTTCTGTGTTCATTGTTTACCTTTTTCTGTAGCAAAATCAGCTT			
5489	IS	[GA]		CATGTGATTTCTGATTTGGAAAATAAATCAGTTTTATTTGACAATCTGCCATGACAGACT[GA]ATTTCTGTGTTCATTGTTTACCTTTTTCTGTAGCAAAATCAGCTTT AGTATTATTTCATC	ctg15422	X	
5505	I		S	AGTAAAAGAGGAAGCTGATCACATCTGCTTGCCAGACC			
5505	P	C	S	ATGACGTGGCAGACGGTAAGCTCTGGACTATAATTTY			
5505	P	A	S	CGCGCCGAGGTGTAAGCTCTGGACTATAATTTGY			
5505	T	C	S	GGCACAAATTATAGTCCAGAGCTTACCGTCTGGCAAGCAGATGTGATCAGCTTCCTCTTTTACTGC			
5505	T	A	S	GGCACAAATTATAGTCCAGAGCTTACAGTCTGGCAAGCAGATGTGATCAGCTTCCTCTTTTACTGC			
5505	IS	[CA]		CTTTGTGAAGATTTAAAAAGGCACTACCTCTGGAGGCACAAATTATAGTCCAGAGCTTAC[CA]GTCTGGCAAGCAGATGTGATCAGCTTCCTCTTTTACTGCCTCAC CCAGGTGCCCTGTGGA	ctg19247	7	
5507	I		A	GGTTAGGTTCCCCGTGTGAGCAACGTGAA			
5507	P	C	A	ATGACGTGGCAGACCCACTTCTAGCTGTGCY			
5507	P	T	A	CGCGCCGAGGTCACTTCTAGCTGTGCCY			
5507	T	C	A	TAAAGGCACAGCTAGAAGTGGTCACGTTGCTCACACGGGGAACCTAACCCA			
5507	T	T	A	TAAAGGCACAGCTAGAAGTGATCACGTTGCTCACACGGGGAACCTAACCCA			
5507	IS	[CT]		AGAAGTCCTCCCCACCCTCCACATTCCCAGTGGGTTAGGTTCCCCGTGTGAGCAACGTGA[CT]CACTTCTAGCTGTGCCTTTAAGATACACTGCAGATTACCATCT GCAGTTTCTGTGCTATA	ctg13010	2	
5541	I		S	GGGAAATAATCACAAACTTTTGGCAACCTGCTTAATGCTAGACT			
5541	P	G	S	CGCGCCGAGGCCTCTGTTTTCACTGGTTATY			
5541	P	C	S	ATGACGTGGCAGACGCTCTGTTTTCACTGGTTY			
5541	T	G	S	CAGAATAACCAGTGAAAACAGAGGGTCTAGCATTAAGCAGGTTGCCAAAAGTTTGTGATTATTTCCCCC			
5541	T	C	S	CAGAATAACCAGTGAAAACAGAGCGTCTAGCATTAAGCAGGTTGCCAAAAGTTTGTGATTATTTCCCCC			
5541	IS	[GC]		CCCTGTCTCCCTTGGATCTGCATCTGCATATGACACTCAGAATAACCAGTGAAAACAGAG[GC]GTCTAGCATTAAGCAGGTTGCCAAAAGTTTGTGATTATTTCCCC CCTCTGCAACTTAATT	ctg25191	18	
5554	I		A	ACAGGGACATACTTAGGACATCCCTTAGCCCTAGCT			
5554	P	A	A	CGCGCCGAGGATTAAGGAAGAGGACATCAGY			
5554	P	G	A	ATGACGTGGCAGACGTTAAGGAAGAGGACATCAGY			
5554	T	A	A	CACCCTGATGTCCTCTTCCTTAATGCTAGGGCTAAGGGATGTCCTAAGTATGTCCCTGTCA			
5554	T	G	A	CACCCTGATGTCCTCTTCCTTAACGCTAGGGCTAAGGGATGTCCTAAGTATGTCCCTGTCA			
5554	IS	[AG]		AAACCCAGACACTGTCCGACCGATGACAGGGACATACTTAGGACATCCCTTAGCCCTAGC[AG]TTAAGGAAGAGGACATCAGGGTGAGAGAACACAGTCCCATTC CCGCAGAACGGGTCAGAG	ctg3454	17	
5560	I		S	AGGGTCTCCCAAGTCCCCAGACAGTAGCA			
5560	P	G	S	ATGACGTGGCAGACCTGAGTGCACCCCAY			
5560	P	A	S	CGCGCCGAGGTTGAGTGCACCCCATY			
5560	T	G	S	GGAGATGGGGTGCACTCAGGCTACTGTCTGGGGACTTGGGAGACCCTGT			
5560	T	A	S	GGAGATGGGGTGCACTCAAGCTACTGTCTGGGGACTTGGGAGACCCTGT			
5560	IS	[GA]		TGGGTGGCTGGAGAAGGGACTGAATGCATGCCTGCTCCCAGGGGAGATGGGGTGCACTCA[GA]GCTACTGTCTGGGGACTTGGGAGACCCTGTACCTGCCTAG GAATTGGGGGCAGGTGGCCC	ctg17403	17	
5561	I		S	GGCTTCAGTGGGCTGGCAGGGAT			
5561	P	C	S	ATGACGTGGCAGACGCCTCTTCTGAGACATCY			
5561	P	G	S	CGCGCCGAGGCCCTCTTCTGAGACATCCY			
5561	T	C	S	AGGTGGATGTCTCAGAAGAGGCTCCCTGCCAGCCCACTGAAGCCAA			
5561	T	G	S	AGGTGGATGTCTCAGAAGAGGGTCCCTGCCAGCCCACTGAAGCCAA			
5561	IS	[CG]		CTTCCAGCCAACTGGATTGTGTTGACACAACCCCCTGCAAGGTGGATGTCTCAGAAGAGG[CG]TCCCTGCCAGCCCACTGAAGCCAAACCCATCAGCCCAACCAC CCGTGAGGCCGCAGCAGC	ctg17036	17	
5571	I		A	CAGCTAGCTCCTGGGCACCCACTTCAA			
5571	P	T	A	CGCGCCGAGGTGTATCCCAACACTGACCY			
5571	P	C	A	ATGACGTGGCAGACCGTATCCCAACACTGACY			
5571	T	T	A	TGGGGGTCAGTGTTGGGATACATGAAGTGGGTGCCCAGGAGCTAGCTGGC			
5571	T	C	A	TGGGGGTCAGTGTTGGGATACGTGAAGTGGGTGCCCAGGAGCTAGCTGGC			
5571	IS	[TC]		TTTTTCATCTTTCCCCACACAGCTGGCTAGGAGCCAGCTAGCTCCTGGGCACCCACTTCA[TC]GTATCCCAACACTGACCCCCAAGCCATTCGTCCGTGCCATGAC AGCAGGCCCCAACCTCT	ctg13740	5	
5586	I		S	CCCTTTCCAAGCCTGGGCAAGCAGCA			
5586	P	G	S	ATGACGTGGCAGACCTCCGTCCCCCATGY			
5586	P	A	S	CGCGCCGAGGTTCCGTCCCCCATGY			
5586	T	G	S	CCAGCATGGGGGACGGAAGGCTGCTTGCCCAGGCTTGGAAAGGGCT			
5586	T	A	S	CCAGCATGGGGGACGGAAGCTGCTTGCCCAGGCTTGGAAAGGGCT			
5586	IS	[GA]		CAGGGGCTGCCCGGGCCTCCCTCGGTAGTGCCTTAGACAGACCCCAGCATGGGGGACGGA[GA]GCTGCTTGCCCAGGCTTGGAAAGGGCTCGGGGCCTGGGC CCGTGTGGTACAGGAGGGGGT	ctg832	11	
5588	I		A	GTCCTGCACACTTGCTTCGGGGGCT			
5588	P	G	A	ATGACGTGGCAGACGACTCCCCACTAGACTGY			
5588	P	A	A	CGCGCCGAGGAACTCCCCACTAGACTGY			
5588	T	G	A	CAACCAGTCTAGTGGGGAGTCGCCCCCGAAGCAAGTGTGCAGGACGG			
5588	T	A	A	CAACCAGTCTAGTGGGGAGTTGCCCCCGAAGCAAGTGTGCAGGACGG			
5588	IS	[GA]		CTGCCTGGTGAGCTCCTATGGGTCTGACGAAGCCCCGTCCTGCACACTTGCTTCGGGGGC[GA]ACTCCCCACTAGACTGGTTGCCCAGGGACGGGGGTACCCA CTCCCTCCTCAGGGCTGCAG	ctg832	11	
5599	I		S	ACAGGCCAGCCTTCCCTGCAAAGGAA			
5599	P	G	S	ATGACGTGGCAGACCGATCCAGCCCGAAY			
5599	P	A	S	CGCGCCGAGGTGATCCAGCCCGAAAY			
5599	T	G	S	GATGTTTCGGGCTGGATCGTCCTTTGCAGGGAAGGCTGGCCTGTGC			
5599	T	A	S	GATGTTTCGGGCTGGATCATCCTTTGCAGGGAAGGCTGGCCTGTGC			
5599	IS	[GA]		CAAGTGAGGTCTAGAGCTGGGTTCCTCAACTCTGGCGCTACTGATGTTTCGGGCTGGATC[GA]TCCTTTGCAGGGAAGGCTGGCCTGTGCATTATGGGATGTTTA GTGGTATCCCTGGCCTCT	ctg22fin4	22	
5608	I		S	GCCCAGACATGGAGCTGAGCCCCT			
5608	P	C	S	ATGACGTGGCAGACGTCCTCTGTACTCTGGGY			
5608	P	T	S	CGCGCCGAGGATCCTCTGTACTCTGGGY			
5608	T	C	S	CCACCCCAGAGTACAGAGGACGGGGCTCAGCTCCATGTCTGGGCCT			
5608	T	T	S	CCACCCCAGAGTACAGAGGATGGGGCTCAGCTCCATGTCTGGGCCT			
5608	IS	[CT]		CCTGTCAGTTCGCTCCTCAGGGATGCTTTGGTCCCTGTGCCCACCCCAGAGTACAGAGGA[CT]GGGGCTCAGCTCCATGTCTGGGCCTTTTACACCCCGCCTCC GCCTCCACTGCGCCTGCCC	ctg22fin3	22	
5623	I		S	TGAGTGTTCAAAGGCTTTGAGGCTTCTGAAGCCT			
5623	P	C	S	ATGACGTGGCAGACGGACCTATGAGTCACGGY			
5623	P	G	S	CGCGCCGAGGCGACCTATGAGTCACGGY			

FIGURE 129B

5623	T	C	S	GCAGCCGTGACTCATAGGTCCGGCTTCAGAAGCCTCAAAGCCTTTGAACACTCACC			
5623	T	G	S	GCAGCCGTGACTCATAGGTCGGGCTTCAGAAGCCTCAAAGCCTTTGAACACTCACC			
5623	IS	[CG]		AGGGCCTCGCGCTTAGGGCAGACTGAGGGCACCTCCAAGGGCAGCCGTGACTCATAGGTC[CG]GGCTTCAGAAGCCTCAAAGCCTTTGAACACTCACCCAACTG AGCTTCAGTTGATCCACTA	ctg17140	16	
5624	I		S	CGAGTCGGGAACAACGGCGCCTA			
5624	P	A	S	CGCGCCGAGGTGGAGCAGCATCCCY			
5624	P	G	S	ATGACGTGGCAGACCGGAGCAGCATCCCY			
5624	T	A	S	TGCAGGGATGCTGCTCCAAGGCGCCGTTGTTCCCGACTCGGC			
5624	T	G	S	TGCAGGGATGCTGCTCCGAGGCGCCGTTGTTCCCGACTCGGC			
5624	IS	[AG]		GGGGAACCTACTTTCTCTTCCCAACACCCATCAGGATCGTGGTTGCAGGGATGCTGCTCC[AG]AGGCGCCGTTGTTCCCGACTCGGCTCTTCCCTTTAACTTCCA GGCTGCCTATGGCCTGAG	ctg17140	16	
5635	I		S	GCTCTCTCTGCCACACCAAGCTCCCCT			
5635	P	G	S	CGCGCCGAGGCTTAGGCAGGCTGCY			
5635	P	C	S	ATGACGTGGCAGACGTTAGGCAGGCTGCY			
5635	T	G	S	AGAGGCAGCCTGCCTAAGGGGGAGCTTGGTGTGGCAGAGAGAGCTG			
5635	T	C	S	AGAGGCAGCCTGCCTAACGGGGAGCTTGGTGTGGCAGAGAGAGCTG			
5635	IS	[GC]		AGGGAGGCCAGAGGAGGAAGCAGAGGCCCGGGATAGGGATGGCAGAGGCAGCCTGCCTAA[GC]GGGGAGCTTGGTGTGGCAGAGAGAGCTGCTGTGGGTGGT GACCAGTGGAGAATGTGGACT	MULTIPLE	MULTIPLE	
5642	I		S	GAATCGGAGAAGGGGGACATCATGACATTTTGCAAA			
5642	P	G	S	ATGACGTGGCAGACCGCCTCTAGCACTGCY			
5642	P	A	S	CGCGCCGAGGTGCCTCTAGCACTGCY			
5642	T	G	S	GTTTGCAGTGCTAGAGGCGTTGCAAAATGTCATGATGTCCCCCTTCTCCGATTCCC			
5642	T	A	S	GTTTGCAGTGCTAGAGGCATTGCAAAATGTCATGATGTCCCCCTTCTCCGATTCCC			
5642	IS	[GA]		CATGGCACAGAGGAATTAATGAATAAATTACAGCTCATCTCTGTTTGCAGTGCTAGAGGC[GA]TTGCAAAATGTCATGATGTCCCCCTTCTCCGATTCCCCTTTCTG GATCTGGAGAAAAGTA	ctg15907	6	
5697	I		S	ACCTTTTGGGGCCAAGGTCAGAGTTCCAAATTAATCAAA			
5697	P	G	S	ATGACGTGGCAGACCTTAAAGCTACTGTGTTGTGTY			
5697	P	A	S	CGCGCCGAGGTTTAAAGCTACTGTGTTGTGTY			
5697	T	G	S	CCAAACACAACACAGTAGCTTTAAGTTGATTAATTTGGAACTCTGACCTTGGCCCCAAAAGGTAA			
5697	T	A	S	CCAAACACAACACAGTAGCTTTAAATTGATTAATTTGGAACTCTGACCTTGGCCCCAAAAGGTAA			
5697	IS	[GA]		CGTGGAAGCCACCTACCCCGACCTTTGGCAGAATTTCCAAACACAACACAGTAGCTTTAA[GA]TTGATTAATTTGGAACTCTGACCTTGGCCCCAAAAGGTAAGAAT ACATAACAAGGTATTT	ctg2712	15	
5735	I		A	CTCGGACGGAAAGCGGGGCCTGA			
5735	P	T	A	CGCGCCGAGGTGGGTCCTTGTGTCCY			
5735	P	C	A	ATGACGTGGCAGACCGGGTCCTTGTGTCCY			
5735	T	T	A	GCAGGGACACAAGGACCCACAGGCCCCGCTTTCCGTCCGAGCA			
5735	T	C	A	GCAGGGACACAAGGACCCGCAGGCCCCGCTTTCCGTCCGAGCA			
5735	IS	[TC]		GCTGAGGAGCCCCCGCTGGTCCCTCTGGGCATGCTGTGCTCGGACGGAAAGCGGGGCCTG[TC]GGGTCCTTGTGTCCCTGCCGCTGAAGAATGGGGCTGCTCT GAGGGAAACGCTGTCTGCTG	ctg19085	10	ECHS1
5751	I		A	CACCAGCGTCATCCACAATAAAGAGGAAAATTGAGAGCT			
5751	P	G	A	ATGACGTGGCAGACGGAGTTTGAATAGGTATGTGGY			
5751	P	A	A	CGCGCCGAGGAGAGTTTGAATAGGTATGTGGY			
5751	T	G	A	AATACCACATACCTATTCAAACTCCGCTCTCAATTTTCCTCTTTATTGTGGATGACGCTGGTGGA			
5751	T	A	A	AATACCACATACCTATTCAAACTCTGCTCTCAATTTTCCTCTTTATTGTGGATGACGCTGGTGGA			
5751	IS	[GA]		TTGGTATAGCCGAGGCCGTTTCCACCAGCGTCATCCACAATAAAGAGGAAAATTGAGAGC[GA]GAGTTTGAATAGGTATGTGGTATTTGGTTCAGAATGGGTTTTA AATGAAAGTGGAGAGGG	ctg53	14	
5811	I		A	CCTTACGAAATGGGTAGATTGTTTCCTTAATAATCCCAACTAA			
5811	P	T	A	CGCGCCGAGGTCATTTGTAAAGTGCTTACTAAG			
5811	P	C	A	ATGACGTGGCAGACCCATTTGTAAAGTGCTTACTAAG			
5811	T	T	A	AGCACTTAGTAAGCACTTTACAAATGATAGTTGGGATTATTAAGGAAACAATCTACCCATTTCGTAAGGAG			
5811	T	C	A	AGCACTTAGTAAGCACTTTACAAATGGTAGTTGGGATTATTAAGGAAACAATCTACCCATTTCGTAAGGAG			
5811	IS	[TC]		TCTGGGCTTACTTTTTCTCCTTACGAAATGGGTAGATTGTTTCCTTAATAATCCCAACTA[TC]CATTTGTAAAGTGCTTACTAAGTGCTGGGCCTCACGTAGGGACT TTAAATATAGCATTTT	ctg12325	11	
5831	I		A	GCATCTAAAGATTAGATCCTGAGAGGCAGGAGGTATAGTTCAAACT			
5831	P	G	A	ATGACGTGGCAGACGAAAGAAGACAAGTTACTGC			
5831	P	C	A	CGCGCCGAGGCAAAGAAGACAAGTTACTGC			
5831	T	G	A	ATGGGCAGTAACTTGTCTTCTTTGGTTTGAACTATACCTCCTGCCTCTCAGGATCTAATCTTTAGATGCCA			
5831	T	C	A	ATGGGCAGTAACTTGTCTTCTTTGGTTTGAACTATACCTCCTGCCTCTCAGGATCTAATCTTTAGATGCCA			
5831	IS	[GC]		GGTGGGAGTGGGCTGGCATCTAAAGATTAGATCCTGAGAGGCAGGAGGTATAGTTCAAAC[GC]AAAGAAGACAAGTTACTGCCCATTTCTATAGGATTACACTGTA GAGTACCTGAACTTGCA	ctg13980	1	
5845	I		A	ACTGTAGGAATTTTGAAAGTGCAAAAGGCCAACCCAAAATTCC			
5845	P	A	A	CGCGCCGAGGAACCAACAAAGGTAACCTAC			
5845	P	T	A	ATGACGTGGCAGACTACCAACAAAGGTAACCTAC			
5845	T	A	A	ACCAGTAGGTTACCTTTGTTGGTTGAATTTTGGGTTGGCCTTTTGCACTTTCAAAATTCCTACAGTGA			
5845	T	T	A	ACCAGTAGGTTACCTTTGTTGGTAGAATTTTGGGTTGGCCTTTTGCACTTTCAAAATTCCTACAGTGA			
5845	IS	[AT]		TGAAAGCTATACATACTCACTGTAGGAATTTTGAAAGTGCAAAAGGCCAACCCAAAATTC[AT]ACCAACAAAGGTAACCTACTGGTATTTGGGTATATTTTTTCTCTG GGCCTTGTCCTCCGC	ctg14391	11	
5850	I		S	GGAGTGATGTGGGTAAAGTGAAACTGTTCTTCTTACCCTCTTTAT			
5850	P	T	S	CGCGCCGAGGATACATCTGTTCTAGGATTTTATAAC			
5850	P	C	S	ATGACGTGGCAGACGTACATCTGTTCTAGGATTTTATAAC			
5850	T	T	S	TCAGGTTATAAAATCCTAGAACAGATGTATTAAAGAGGGTAAGAAGAACAGTTTCACTTTACCCACATCACTCCTC			
5850	T	C	S	TCAGGTTATAAAATCCTAGAACAGATGTACTAAAGAGGGTAAGAAGAACAGTTTCACTTTACCCACATCACTCCTC			
5850	IS	[TC]		AGGAGTCCAGCAGAGAAGTTCCAGCACGCTGTCAGGTTATAAAATCCTAGAACAGATGTA[TC]TAAAGAGGGTAAGAAGAACAGTTTCACTTTACCCACATCACTC CTCCCCCAAGGTGGCAC	ctg15907	6	
5884	I		A	CATCCCTTTGCTTGTGGCAGGAGATGGCTTAAATAAATAACTTAAA			
5884	P	C	A	ATGACGTGGCAGACCTTAGATTGGTCATGAGCTG			
5884	P	T	A	CGCGCCGAGGTTTAGATTGGTCATGAGCTG			
5884	T	C	A	CTCTCAGCTCATGACCAATCTAAGTTTAAGTTATTTATTTAAGCCATCTCCTGCCACAAGCAAAGGGATGGG			
5884	T	T	A	CTCTCAGCTCATGACCAATCTAAATTTAAGTTATTTATTTAAGCCATCTCCTGCCACAAGCAAAGGGATGGG			
5884	IS	[CT]		GTATACTGGTCTCCCATCCCTTTGCTTGTGGCAGGAGATGGCTTAAATAAATAACTTAAA[CT]TTAGATTGGTCATGAGCTGAGAGTTACTTTCTTTGGTTGTGTTTT TTCGCAGAAATTAGC	ctg15140	12	
5922	I		A	CAATGAGGGCTGAAGCTTCGGCCTGTGT			
5922	P	A	A	CGCGCCGAGGACCAAGACACCATGGGY			
5922	P	G	A	ATGACGTGGCAGACGCCAAGACACCATGGY			
5922	T	A	A	ACTGCCCATGGTGTCTTGGTCACAGGCCGAAGCTTCAGCCCTCATTGGC			
5922	T	G	A	ACTGCCCATGGTGTCTTGGCCACAGGCCGAAGCTTCAGCCCTCATTGGC			
5922	IS	[AG]		TCCCAGGGACCCCCGGCCAGGACTCAAGCCGGCCAATGAGGGCTGAAGCTTCGGCCTGTG[AG]CCAAGACACCATGGGCAGTGGAATGAGCAACGTGCAGTTTT GCACCCAGAAACTGGTCAG	ctg15330	9	
5937	I		S	CTGTCCTTCACCTACTGGTTCACATCTGACCCTGTAATAAAT			
5937	P	C	S	ATGACGTGGCAGACGTAACTCTTTGGAGTCTTCAG			
5937	P	T	S	CGCGCCGAGGATAACTCTTTGGAGTCTTCAG			
5937	T	C	S	CCCTCTGAAGACTCCAAAGAGTTACTTTATTACAGGGTCAGATGTGAACCAGTAGGTGAAGGACAGTC			
5937	T	T	S	CCCTCTGAAGACTCCAAAGAGTTATTTTATTACAGGGTCAGATGTGAACCAGTAGGTGAAGGACAGTC			
5937	IS	[CT]		TCTTCCTTCACTTGCTTAGGTGATTGGATTTGTTTTCCCTCTGAAGACTCCAAAGAGTTA[CT]TTTATTACAGGGTCAGATGTGAACCAGTAGGTGAAGGACAGTCT TGCAAATCTCACCGCA	ctg30	7	
6004	I		A	AGGGGTGGTCCAGGCTGTACTTTAGGCTT			
6004	P	G	A	ATGACGTGGCAGACGCATGAAAGTCTCCTGG			
6004	P	A	A	CGCGCCGAGGACATGAAAGTCTCCTGGA			
6004	T	G	A	CATCTCCAGGAGACTTTCATGCAGCCTAAAGTACAGCCTGGACCACCCCTGG			

FIGURE 129B

6004	T	A	A	CATCTCCAGGAGACTTTCATGTAGCCTAAAGTACAGCCTGGACCACCCCTGG			
6004	IS	[GA]		GCAGCTCAGGGTAATCTTACTAGCTACACACCAGGGGTGGTCCAGGCTGTACTTTAGGCT[GA]CATGAAAGTCTCCTGGAGATGGAAAGCATTCCAACCCAATCT GCCCCCAACCAAAAGCAA	ctg15478	1	LAMB3
6028	I		A	TCCTGCTTTCCCTGAGAAAAGACATGACCCCTCT			
6028	P	G	A	ATGACGTGGCAGACGTTCCCCTCTTTACCCA			
6028	P	A	A	CGCGCCGAGGATTCCCCTCTTTACCCAT			
6028	T	G	A	GGAGATGGGTAAAGAGGGGAACGAGGGGTCATGTCTTTTCTCAGGGAAAGCAGGAGC			
6028	T	A	A	GGAGATGGGTAAAGAGGGGAATGAGGGGTCATGTCTTTTCTCAGGGAAAGCAGGAGC			
6028	IS	[GA]		GACCCTGCTGAAGAGCTCCAGAAGGGCTCCTGCTTTCCCTGAGAAAAGACATGACCCCT[GA]TTCCCCTCTTTACCCATCTCCCTCCTTACCCCATCTCAGGATG AGGGGCTGGGGCAGCCC	ctg15907	6	
6048	I		A	TCTGGGTCAGCCTGAAGGGGTACAGGAT			
6048	P	G	A	ATGACGTGGCAGACGCATGTCTGTCTCTTCTC			
6048	P	A	A	CGCGCCGAGGACATGTCTGTCTCTTCTCA			
6048	T	G	A	CAGCTGAGAAGAGACAGACATGCTCCTGTACCCCTTCAGGCTGACCCAGACC			
6048	T	A	A	CAGCTGAGAAGAGACAGACATGTTCCTGTACCCCTTCAGGCTGACCCAGACC			
6048	IS	[GA]		AGATTATAAAACCAGCACATGGCACAGGGCAGGTCTGGGTCAGCCTGAAGGGGTACAGGA[GA]CATGTCTGTCTCTTCTCAGCTGTTTTAATCTCCCCTCTGCCAT GTCTCTCCCTCATGCAG	ctg12823	16	
6064	I		S	CCATTCAGCCCCCACTCGGTCTTTCCAATT			
6064	P	C	S	ATGACGTGGCAGACGCCTGCTCAGCAATAAG			
6064	P	T	S	CGCGCCGAGGACCTGCTCAGCAATAAG			
6064	T	C	S	GTCACTTATTGCTGAGCAGGCATTGGAAAGACCGAGTGGGGGCTGAATGGAG			
6064	T	T	S	GTCACTTATTGCTGAGCAGGTATTGGAAAGACCGAGTGGGGGCTGAATGGAG			
6064	IS	[CT]		CCTGCCTCTGCTGCTGTGGCATCACAGAAGCCATCAGTGAGTCACTTATTGCTGAGCAGG[CT]ATTGGAAAGACCGAGTGGGGGCTGAATGGAGATTAATTTGAC CCATTCCTCCCCCAATTT	ctg15907	6	
6085	I		A	GGCTCAGAAAAGTAGCTTCCTGGAGGTGACCCC			
6085	P	A	A	CGCGCCGAGGAGGAGGAAGGTAGTCAAG			
6085	P	T	A	ATGACGTGGCAGACTGGAGGAAGGTAGTCAAG			
6085	T	A	A	CTGTCTTGACTACCTTCCTCCTGGGTCACCTCCAGGAAGCTACTTTTCTGAGCCTC			
6085	T	T	A	CTGTCTTGACTACCTTCCTCCAGGGTCACCTCCAGGAAGCTACTTTTCTGAGCCTC			
6085	IS	[AT]		ATCCCCACTTTACCTCTGAGCAAACTGAGGCTCAGAAAAGTAGCTTCCTGGAGGTGACCC[AT]GGAGGAAGGTAGTCAAGACAGGGTCTCCCCATTCCAGCATCT GCTGTTTTCTCATTACAC	ctg22fin4	22	
6087	I		A	GGGGCTGTGAATGAAGGGGAGCAGCTT			
6087	P	A	A	CGCGCCGAGGAGGACACATGACTGTAGAG			
6087	P	G	A	ATGACGTGGCAGACGGGACACATGACTGTAGA			
6087	T	A	A	CCTCCTCTACAGTCATGTGTCCTAGCTGCTCCCCTTCATTCACAGCCCCTC			
6087	T	G	A	CCTCCTCTACAGTCATGTGTCCCAGCTGCTCCCCTTCATTCACAGCCCCTC			
6087	IS	[AG]		CATTTGCCATGAAGCAAAGCCTCACCTGGCAGGAGGGGCTGTGAATGAAGGGGAGCAGCT[AG]GGACACATGACTGTAGAGGAGGCTTTAGGAAGCCGAGGAGC AGGAAGCAAGAAGGCTTGT	ctg22fin4	22	
6089	I		A	AGATTCCTGCCCTACGTGGCATTGTCCCT			
6089	P	G	A	ATGACGTGGCAGACGTTTTACATCCTTCCCTCAT			
6089	P	A	A	CGCGCCGAGGATTTTACATCCTTCCCTCATG			
6089	T	G	A	AGGTCATGAGGGAAGGATGTAAAACGGGACAATGCCACGTAGGGCAGGAATCTTT			
6089	T	A	A	AGGTCATGAGGGAAGGATGTAAAATGGGACAATGCCACGTAGGGCAGGAATCTTT			
6089	IS	[GA]		AGGACGATACCCCACATGAGGACTTGGTATAAAGATTCCTGCCCTACGTGGCATTGTCCC[GA]TTTTACATCCTTCCCTCATGACCTGGCCTGATGTGGAGTAGCT CCTGAGTAAAGAAGTTA	ctg22fin4	22	TIP39
6095	I		S	CGTGAAGGGTGAGAGGTTGGGGGCTCT			
6095	P	C	S	ATGACGTGGCAGACGCCCCAGGATCTGGY			
6095	P	T	S	CGCGCCGAGGACCCCAGGATCTGGY			
6095	T	C	S	CCTGCCAGATCCTGGGGCGAGCCCCCAACCTCTCACCCTTCACGGG			
6095	T	T	S	CCTGCCAGATCCTGGGGTGAGCCCCCAACCTCTCACCCTTCACGGG			
6095	IS	[CT]		TTCCTGGCTCCTGGAGGAATCTGAGTTTGCAATCCCTGCTTTACCTGCCAGATCCTGGGG[CT]GAGCCCCCAACCTCTCACCCTTCACGGGACTCTGATGCGGAT CTCCACCTTTTTTTTTTC			
6112	I		A	TGGGGATGGGCATCCAGAACCTTAGCCT			
6112	P	G	A	ATGACGTGGCAGACGGGCCTCTAAGTAGCT			
6112	P	A	A	CGCGCCGAGGAGGCCTCTAAGTAGCTG			
6112	T	G	A	CGGGCAGCTACTTAGAGGCCCGGCTAAGGTTCTGGATGCCCATCCCCACC			
6112	T	A	A	CGGGCAGCTACTTAGAGGCCTGGCTAAGGTTCTGGATGCCCATCCCCACC			
6112	IS	[GA]		TAAGTACTGAGCTGTGGCTGTAGCCCAGCAGGGTGGGGATGGGCATCCAGAACCTTAGCC[GA]GGCCTCTAAGTAGCTGCCCGGAGAGCCAGAGGACCCAGGG GACCTTAAGTGGGGCCAGGA	ctg15665	20	
6158	I		A	AGCGTCTCCGCAGTCCCGGTTCTT			
6158	P	A	A	CGCGCCGAGGAAAGTCCCCAGTCACC			
6158	P	G	A	ATGACGTGGCAGACGAAGTCCCCAGTCACC			
6158	T	A	A	GGTGGGTGACTGGGGACTTTAGAACCGGGACTGCGGAGACGCTGA			
6158	T	G	A	GGTGGGTGACTGGGGACTTCAGAACCGGGACTGCGGAGACGCTGA			
6158	IS	[AG]		CACTCCCATTGGGTGTCGGGTTCTAGAGAAGCCAATCAGCGTCTCCGCAGTCCCGGTTCT[AG]AAGTCCCCAGTCACCCACCCGGACTCAGATTCTCCCCAGACG CCGAGATGCGGGTCATGG	ctg15907	6	
6173	I		S	CACACTCCTTTCCGTTATCTGGCTCGCAGTA			
6173	P	G	S	ATGACGTGGCAGACCTCCCAGTCTCACTGC			
6173	P	A	S	CGCGCCGAGGTTCCCAGTCTCACTGC			
6173	T	G	S	GAAAGCAGTGAGACTGGGAGACTGCGAGCCAGATAACGGAAAGGAGTGTGGT			
6173	T	A	S	GAAAGCAGTGAGACTGGGAAACTGCGAGCCAGATAACGGAAAGGAGTGTGGT			
6173	IS	[GA]		CTGGAAGCCATTCCCTGTGAAGAGCCTGCCTGTTATGACTGGAAAGCAGTGAGACTGGGA[GA]ACTGCGAGCCAGATAACGGAAAGGAGTGTGGTCCAGGCACG CAAGTTCAAGAGGTTGTGT	ctg15064	7	
6201	I		S	CTTTCCTGTAGCTGACCTTTAGTCATCAGAATATTTTTCTGGCTTCAT			
6201	P	T	S	CGCGCCGAGGATTTTGTGTACATAAATTCTTGTTG			
6201	P	C	S	ATGACGTGGCAGACGTTTTGTGTACATAAATTCTTGTTG			
6201	T	T	S	TGGACAACAAGAATTTATGTACACAAAATTGAAGCCAGAAAAATATTCTGATGACTAAAGGTCAGCTACAGGAAAGCT			
6201	T	C	S	TGGACAACAAGAATTTATGTACACAAAACTGAAGCCAGAAAAATATTCTGATGACTAAAGGTCAGCTACAGGAAAGCT			
6201	IS	[TC]		GATACAACTCAGGTTGACATAGCTATGCTAAATGGACAACAAGAATTTATGTACACAAAA[TC]TGAAGCCAGAAAAATATTCTGATGACTAAAGGTCAGCTACAGGA AAGCTGTTACTATGTT	ctg25099	7	
6220	I		A	TTAATTTAGTGTGAGTATTCTTTTACAATAAATTCCTTTTTAAGAGAGAAGGATTTCATAT			
6220	P	A	A	CGCGCCGAGGAAGTCTTTCCATTTAGCATGT			
6220	P	C	A	ATGACGTGGCAGACCAGTCTTTCCATTTAGCATG			
6220	T	A	A	ATCCACATGCTAAATGGAAAGACTTTATGAAATCCTTCTCTCTTAAAAAGGAATTTATTGTAAAAGAATACTCACACTAAATTAA			
6220	T	C	A	ATCCACATGCTAAATGGAAAGACTGTATGAAATCCTTCTCTCTTAAAAAGGAATTTATTGTAAAAGAATACTCACACTAAATTAA			
6220	IS	[AC]		TTAATTTAGTGTGAGTATTCTTTTACAATAAATTCCTTTTTAAGAGAGAAGGATTTCATA[AC]AGTCTTTCCATTTAGCATGTGGATGAGAACTATATAAAAATGCCAC AAATAAAATATGAC	ctg15424	2	
6273	I		A	GGGGAGGTTGCAGTGAGCCAAGATTGTGTTT			
6273	P	C	A	ATGACGTGGCAGACCCTGCACTCCAGCT			
6273	P	A	A	CGCGCCGAGGACTGCACTCCAGCTT			
6273	T	C	A	GCCCAAGCTGGAGTGCAGGAACACAATCTTGGCTCACTGCAACCTCCCCAC			
6273	T	A	A	GCCCAAGCTGGAGTGCAGTAACACAATCTTGGCTCACTGCAACCTCCCCAC			
6273	IS	[CA]		AGCAAGGAGAATCGCTTTAACCTGGGAGGTGGGGAGGTTGCAGTGAGCCAAGATTGTGTT[CA]CTGCACTCCAGCTTGGGCTACAGAGTGAGACGCTATCTCAAA GAAAAAAAATAAAAAGT			
6313	I		A	TCCTGGAGCCCAGGGCCCTGAGA			
6313	P	T	A	CGCGCCGAGGTCCGTACCCAATCCTG			
6313	P	C	A	ATGACGTGGCAGACCCCGTACCCAATCCT			
6313	T	T	A	ACAACAGGATTGGGTACGGACTCAGGGCCCTGGGCTCCAGGATC			
6313	T	C	A	ACAACAGGATTGGGTACGGGCTCAGGGCCCTGGGCTCCAGGATC			

FIGURE 129B

				GCCCCTTTTCCCCAAATGAGACCCAAGCCGGAGATGGATCCTGGAGCCCAGGGCCCTGAG[TC]CCGTACCCAATCCTGTTGTTTCAGAACCCATCAAAGGCCTCT		
6313	IS	[TC]		CAAAGCTCGCGGGACACC	ctg13297	17
6341	I		S	TCAGAGAAAGGGTTGTATGCGTGCCCCCA		
6341	P	G	S	ATGACGTGGCAGACCTGTCCTCACCTTTCCTY		
6341	P	A	S	CGCGCCGAGGTTGTCCTCACCTTTCCTY		
6341	T	G	S	GGAGAGGAAAGGTGAGGACAGGGGGGCACGCATACAACCCTTTCTCTGATG		
6341	T	A	S	GGAGAGGAAAGGTGAGGACAAGGGGGCACGCATACAACCCTTTCTCTGATG		
6341	IS	[GA]		TTTTAGTTCAGTGACTTGGGCTTCTGTTTTCTATAGAATCGGAGAGGAAAGGTGAGGACA[GA]GGGGGCACGCATACAACCCTTTCTCTGATGTCTACACATAACT CTTGATAAAACATAAAA	ctg15064	7
6345	I		A	CTTAATGACACACATGGGACCTCTTCTTCATACCAGGTCA		
6345	P	C	A	ATGACGTGGCAGACCTTGGTTAGCATATTTAATCCTCY		
6345	P	T	A	CGCGCCGAGGTTTGGTTAGCATATTTAATCCTCY		
6345	T	C	A	CTGTGAGGATTAAATATGCTAACCAAGGACCTGGTATGAAGAAGAGGTCCCATGTGTGTCATTAAGCC		
6345	T	T	A	CTGTGAGGATTAAATATGCTAACCAAAGACCTGGTATGAAGAAGAGGTCCCATGTGTGTCATTAAGCC		
6345	IS	[CT]		TGGTTATGTAGGGGAAAAGGGCTTAATGACACACATGGGACCTCTTCTTCATACCAGGTC[CT]TTGGTTAGCATATTTAATCCTCACAGCAACACTATGGAAGGAG GGCTTTATAATCCCCAG	ctg16820	16
6352	I		S	CCAAACCCAGAACCCAAGGGCTGTCAGT		
6352	P	T	S	CGCGCCGAGGACCACACCCAAGATCAY		
6352	P	C	S	ATGACGTGGCAGACGCCACACCCAAGATCY		
6352	T	T	S	CCACTGATCTTGGGTGTGGTCTGACAGCCCTTGGGTTCTGGGTTTGGCT		
6352	T	C	S	CCACTGATCTTGGGTGTGGCCTGACAGCCCTTGGGTTCTGGGTTTGGCT		
6352	IS	[TC]		TGGAGACACTTAGTGTCTCCACTGAGTGACAATCAGTATCACCACTGATCTTGGGTGTGG[TC]CTGACAGCCCTTGGGTTCTGGGTTTGGCTTCATCCTCAGGACT CACCAGAACCACACACT	ctg13010	2
6355	I		A	GCGTTTACCCTGCTGACTCAAGGTTATTAATATGTTTTTAAACAGAGCC		
6355	P	G	A	ATGACGTGGCAGACGCATTCAGGCCAAATTCY		
6355	P	T	A	CGCGCCGAGGTCATTCAGGCCAAATTCATY		
6355	T	G	A	CAGGATGAATTTGGCCTGAATGCGCTCTGTTTAAAAACATATTAATAACCTTGAGTCAGCAGGGTAAACGCTT		
6355	T	T	A	CAGGATGAATTTGGCCTGAATGAGCTCTGTTTAAAAACATATTAATAACCTTGAGTCAGCAGGGTAAACGCTT		
6355	IS	[GT]		TAGTATATAAAAGCGTTTACCCTGCTGACTCAAGGTTATTAATATGTTTTTAAACAGAGC[GT]CATTCAGGCCAAATTCATCCTGTATTTACTTATTTATAGTTTTGAG TCCCAGGATAATAG	ctg22fin6	22
6371	I		S	TGGGCCTCACCAGCAGAGGCCTT		
6371	P	C	S	ATGACGTGGCAGACGGCCTCTTTCCATAGCY		
6371	P	T	S	CGCGCCGAGGAGCCTCTTTCCATAGCGY		
6371	T	C	S	ACAGCGCTATGGAAAGAGGCCAGGCCTCTGCTGGTGAGGCCCAGG		
6371	T	T	S	ACAGCGCTATGGAAAGAGGCTAGGCCTCTGCTGGTGAGGCCCAGG		
6371	IS	[CT]		CTCTTCACCCCAACCAAACAGATCCAGGCCCAGGGTGGGGACAGCGCTATGGAAAGAGGC[CT]AGGCCTCTGCTGGTGAGGCCCAGGCGGACAGCACCGTGAC CCACCAGACCTGGTCCCCTC	ctg22fin10	22
6377	I		S	GTCGGTACTGATGTGCTAGGGTAGTTCAGACCCA		
6377	P	A	S	CGCGCCGAGGTCTGCTCCGGGCY		
6377	P	G	S	ATGACGTGGCAGACCCTGCTCCGGGCY		
6377	T	A	S	GCCTGCCCGGAGCAGAGGGTCTGAACTACCCTAGCACATCAGTACCGACGT		
6377	T	G	S	GCCTGCCCGGAGCAGGGGGTCTGAACTACCCTAGCACATCAGTACCGACGT		
6377	IS	[AG]		CTCCCCTCATGTTTTAAGACCCAGGGTGGGGGTCCGTCCAGCCGCGCCTGCCCGGAGCAG[AG]GGGTCTGAACTACCCTAGCACATCAGTACCGACGTGCCCGC CTCCGGCTCAGCGGGAGCC	ctg15907	6
6384	I		S	GTGAGCCCTTGTCCTCGATGGCTTTTGGTTTTATCT		
6384	P	C	S	ATGACGTGGCAGACGTTTGTCTATAGACAGCAGTATY		
6384	P	T	S	CGCGCCGAGGATTTGTCTATAGACAGCAGTATTY		
6384	T	C	S	ATGAAATACTGCTGTCTATAGACAAACGATAAAACCAAAAGCCATCGAGGACAAGGGCTCACAT		
6384	T	T	S	ATGAAATACTGCTGTCTATAGACAAATGATAAAACCAAAAGCCATCGAGGACAAGGGCTCACAT		
6384	IS	[CT]		ACCCTTGATCCACACACATGCCTTCCAAGGACTCATGAAATACTGCTGTCTATAGACAAA[CT]GATAAAACCAAAAGCCATCGAGGACAAGGGCTCACATTGTCTCC ATCATTGGCTAGAAGG	ctg13214	2
6385	I		A	CAGGGCTCTCTGATTGGTGGGGCCT		
6385	P	G	A	ATGACGTGGCAGACGTGGCTCTGGGTCCY		
6385	P	A	A	CGCGCCGAGGATGGCTCTGGGTCCY		
6385	T	G	A	AAATGGACCCAGAGCCACGGCCCCACCAATCAGAGAGCCCTGCC		
6385	T	A	A	AAATGGACCCAGAGCCATGGCCCCACCAATCAGAGAGCCCTGCC		
6385	IS	[GA]		ACACCCATTCCTGGGCCAATTGGGTGGTCTGTGTGGCAGGGCTCTCTGATTGGTGGGGCC[GA]TGGCTCTGGGTCCATTTGTTGGAATGAGGGATGAGGGGACC GGAGGGAGGAAGCCAGCCC	ctg15649	2
6386	I		A	GAAGCCAGCCCCACAGAGCGACAGT		
6386	P	G	A	ATGACGTGGCAGACGGAAGGACCCTGTGCY		
6386	P	A	A	CGCGCCGAGGAGAAGGACCCTGTGCY		
6386	T	G	A	TCCTGCACAGGGTCCTTCCCTGTCGCTCTGTGGGGCTGGCTTCCT		
6386	T	A	A	TCCTGCACAGGGTCCTTCTCTGTCGCTCTGTGGGGCTGGCTTCCT		
6386	IS	[GA]		ATTTGTTGGAATGAGGGATGAGGGGACCGGAGGGAGGAAGCCAGCCCCACAGAGCGACAG[GA]GAAGGACCCTGTGCAGGAAAGGGACAGAAGTGAGAGGAGA CAGCAAAAGCAGGCGTCCAT	ctg15649	2
6393	I		A	GGTCTTATGATGCCTTCCTGACAATTGCAGACAAATAGAATTGGA		
6393	P	T	A	CGCGCCGAGGTTTATTCCATATTTCCTCTTCTGY		
6393	P	C	A	ATGACGTGGCAGACCTTATTCCATATTTCCTCTTCTGY		
6393	T	T	A	TGTGCAGAAGAGGAAATATGGAATAAACCAATTCTATTTGTCTGCAATTGTCAGGAAGGCATCATAAGACCAG		
6393	T	C	A	TGTGCAGAAGAGGAAATATGGAATAAGCCAATTCTATTTGTCTGCAATTGTCAGGAAGGCATCATAAGACCAG		
6393	IS	[TC]		TGCAGTGGTGAAAACTGGTCTTATGATGCCTTCCTGACAATTGCAGACAAATAGAATTGG[TC]TTATTCCATATTTCCTCTTCTGCACATTTTGGAATATAAGATAGA ATCATACCTTGCCAG	ctg14508	3
6397	I		S	CAGGAGAAGGGAGCCACTTGTGTTTGCCT		
6397	P	C	S	ATGACGTGGCAGACGACACTGAGATCACACTAGTY		
6397	P	T	S	CGCGCCGAGGAACACTGAGATCACACTAGTY		
6397	T	C	S	CACCACTAGTGTGATCTCAGTGTCGGCAAACACAAGTGGCTCCCTTCTCCTGCT		
6397	T	T	S	CACCACTAGTGTGATCTCAGTGTTGGCAAACACAAGTGGCTCCCTTCTCCTGCT		
6397	IS	[CT]		ACAGCAGAGCCCGGGAAAGCCCAGAGCCCCTAAAACCCACCACTAGTGTGATCTCAGTGT[CT]GGCAAACACAAGTGGCTCCCTTCTCCTGCTGCAGAACTCAGA ATCAAAAGTGGCAGAACT	ctg15144	12
6429	I		S	GGGTAGTAACATGATCATAGCTCACTGCGGACTCGAAT		
6429	P	T	S	CGCGCCGAGGATCCTGGGCTCAGTGY		
6429	P	G	S	ATGACGTGGCAGACCTCCTGGGCTCAGTGY		
6429	T	T	S	GGATCACTGAGCCCAGGATTTCGAGTCCGCAGTGAGCTATGATCATGTTACTACCCTC		
6429	T	G	S	GGATCACTGAGCCCAGGAGTTCGAGTCCGCAGTGAGCTATGATCATGTTACTACCCTC		
6429	IS	[TG]		CACTTACCTGTAGCCCTAGCTACTTGGGAGGCTGAGGCAGGAGGATCACTGAGCCCAGGA[TG]TTCGAGTCCGCAGTGAGCTATGATCATGTTACTACCCTCTAG GCTGCAGTGAGTCATGAT	ctg14932	16
6430	I		S	CCCATCATTCCCAGGCAACCCCTATCTTTCCT		
6430	P	T	S	CGCGCCGAGGACCCTCCTCCGTTGY		
6430	P	C	S	ATGACGTGGCAGACGCCCTCCTCCGTTGY		
6430	T	T	S	CGTTCAACGGAGGAGGGTGGAAAGATAGGGGTTGCCTGGGAATGATGGGGT		
6430	T	C	S	CGTTCAACGGAGGAGGGCGGAAAGATAGGGGTTGCCTGGGAATGATGGGGT		
6430	IS	[TC]		GGGAGTTGAGATCAGGAGTTCTGGGGCAGACAGACTTGGGAAACGTTCAACGGAGGAGGG[TC]GGAAAGATAGGGGTTGCCTGGGAATGATGGGGTCTCTGGA ATGGGTAGAACCCTGGGGGA	ctg14932	16
6436	I		S	CATAGGCTAATTTTCATTCAGCAATTTGCACTCTGCCATGAATCA		
6436	P	G	S	ATGACGTGGCAGACCTCCACAATTTCCTTTTACAAAY		
6436	P	A	S	CGCGCCGAGGTTCCACAATTTCCTTTTACAAAY		
6436	T	G	S	CCTGTTTGTAAAAGGAAATTGTGGAGGATTCATGGCAGAGTGCAAATTGCTGAATGAAAATTAGCCTATGGC		
6436	T	A	S	CCTGTTTGTAAAAGGAAATTGTGGAAGATTCATGGCAGAGTGCAAATTGCTGAATGAAAATTAGCCTATGGC		

FIGURE 129B

					TATGAATGACTGATACCAGTAAACAATTGAAGTCACCTGTTTGTAAAAGGAAATTGTGGA[GA]GATTCATGGCAGAGTGCAAATTGCTGAATGAAAATTAGCCTATG		
6436	IS	[GA]			GCCCATTTATCAAAAC	ctg15064	7
6470	I		S		GTTCCTTATGATTGTGTGTTTACTTCAGAGGTCTACGTCAAACCTC		
6470	P	T	S		CGCGCCGAGGAAGAATTAGGAGAGAAAAGCAAY		
6470	P	A	S		ATGACGTGGCAGACTAGAATTAGGAGAGAAAAGCAATAY		
6470	T	T	S		CAATTATTGCTTTTCTCTCCTAATTCTTAGGTTTGACGTAGACCTCTGAAGTAAACACACAATCATAAGGAACCA		
6470	T	A	S		CAATTATTGCTTTTCTCTCCTAATTCTAAGGTTTGACGTAGACCTCTGAAGTAAACACACAATCATAAGGAACCA		
					CTTTTTAAGTACCTTTTAAATAGTTTTTCATAACAATTATTGCTTTTCTCTCCTAATTCT[TA]AGGTTTGACGTAGACCTCTGAAGTAAACACACAATCATAAGGAACC		
6470	IS	[TA]			AGAAATAGCAATAT	ctg15064	7
6476	I		A		GTCCAGGGCACAGAGCAGCAGAGACAT		
6476	P	C	A		CGCGCCGAGGCACAAACAGGATTAGAGCGY		
6476	P	G	A		ATGACGTGGCAGACGACAAACAGGATTAGAGCGY		
6476	T	C	A		TTAGCGCTCTAATCCTGTTTGTGTGTCTCTGCTGCTCTGTGCCCTGGACCC		
6476	T	G	A		TTAGCGCTCTAATCCTGTTTGTCTGTCTCTGCTGCTCTGTGCCCTGGACCC		
					CTGATCCCTAATGAATGACATTCTAATGAATGGGGTCCAGGGCACAGAGCAGCAGAGACA[CG]ACAAACAGGATTAGAGCGCTAATTGGCAAATGTGGTGGGATT		
6476	IS	[CG]			CCCTGTTGGGAAGGACAG	ctg15684	5
6501	I		S		AAAGCATCTCTGGTATCCCATCTGGGAGTTC		
6501	P	C	S		ATGACGTGGCAGACGTAGATCCATAGAATGCCAG		
6501	P	A	S		CGCGCCGAGGTTAGATCCATAGAATGCCAG		
6501	T	C	S		AATCCTGGCATTCTATGGATCTACAACTCCCAGATGGGATACCAGAGATGCTTTTA		
6501	T	A	S		AATCCTGGCATTCTATGGATCTAAAACTCCCAGATGGGATACCAGAGATGCTTTTA		
					CCAGCTTTCAGAAATAAGCGTTGGAGGAGTTGGACTCAATCCTGGCATTCTATGGATCTA[CA]AACTCCCAGATGGGATACCAGAGATGCTTTTAAGTGATACAGG		
6501	IS	[CA]			AGCCCAACACAGAAAAA	ctg15174	19
6516	I		S		TCCACTCAGCACAGAGAAGGGGGCCA		
6516	P	A	S		CGCGCCGAGGTAGCAAAAGATCCTGTCAG		
6516	P	G	S		ATGACGTGGCAGACCAGCAAAAGATCCTGTCA		
6516	T	A	S		CCAGCTGACAGGATCTTTTGCTAGGCCCCCTTCTCTGTGCTGAGTGGAGG		
6516	T	G	S		CCAGCTGACAGGATCTTTTGCTGGGCCCCCTTCTCTGTGCTGAGTGGAGG		
					GGGCCCCAGTTTATGTGCTCACCAGTCACTTAGCTCTGCCAGCTGACAGGATCTTTTGCT[AG]GGCCCCCTTCTCTGTGCTGAGTGGAGGTAGCCTCTCAGCATA		
6516	IS	[AG]			TCTGCTGGGTAAGACATA	ctg17263	16
6519	I		S		CTTCATTTTCCTGATGGGAGGGGTATCCTGTGATGTT		
6519	P	C	S		ATGACGTGGCAGACGGCTGTCCTGTGTCC		
6519	P	G	S		CGCGCCGAGGCGCTGTCCTGTGTCC		
6519	T	C	S		GGGAGGACACAGGACAGCCACATCACAGGATACCCCTCCCATCAGGAAAATGAAGGC		
6519	T	G	S		GGGAGGACACAGGACAGCGACATCACAGGATACCCCTCCCATCAGGAAAATGAAGGC		
					GTCCAGGGTCTGTGGGGCACTAGACCTAAGGAAGGCTTCCTGGGGAGGACACAGGACAGC[CG]ACATCACAGGATACCCCTCCCATCAGGAAAATGAAGGCCCA		
6519	IS	[CG]			GAACTCACTCGGCTCTTCC	ctg18037	7
6523	I		S		CAATCCCCACACAAAAAGCAAGCTTGAAGACACTACAA		
6523	P	G	S		ATGACGTGGCAGACCCGTCAAATCTCTTCCAAT		
6523	P	A	S		CGCGCCGAGGTCGTCAAATCTCTTCCAATC		
6523	T	G	S		CAGTGATTGGAAGAGATTTGACGGTGTAGTGTCTTCAAGCTTGCTTTTTGTGTGGGGATTGGG		
6523	T	A	S		CAGTGATTGGAAGAGATTTGACGATGTAGTGTCTTCAAGCTTGCTTTTTGTGTGGGGATTGGG		
					TTTCCCGAAGGCTTGCGCCATTTTGATATTCACGTCACAGTGATTGGAAGAGATTTGACG[GA]TGTAGTGTCTTCAAGCTTGCTTTTTGTGTGGGGATTGGGGAGC		
6523	IS	[GA]			TGTCGGGGCGGCTGCCA	ctg15128	17
6526	I		S		CCAAGGACTCAAAGATTCTTTCAGGAAAAAGGGTGCCTC		
6526	P	C	S		ATGACGTGGCAGACGCCTGGAGACTCAGG		
6526	P	A	S		CGCGCCGAGGTCCTGGAGACTCAGGT		
6526	T	C	S		TTCCACCTGAGTCTCCAGGCAGGCACCCTTTTTCCTGAAAGAATCTTTGAGTCCTTGGCC		
6526	T	A	S		TTCCACCTGAGTCTCCAGGAAGGCACCCTTTTTCCTGAAAGAATCTTTGAGTCCTTGGCC		
					TATTCATCCCGCTACACAAGTCAGGGGCCTCTTAACCTCAGTTCCACCTGAGTCTCCAGG[CA]AGGCACCCTTTTTCCTGAAAGAATCTTTGAGTCCTTGGCCCAG		
6526	IS	[CA]			GTGGAGGCAGGGCAGAG	ctg14007	17
6528	I		A		GGGGGGAGGGGAGGGGTTCGTACT		
6528	P	G	A		ATGACGTGGCAGACGGGAGCAATAAAGGAGAAA		
6528	P	A	A		CGCGCCGAGGAGGAGCAATAAAGGAGAAAC		
6528	T	G	A		CTCAGTTTCTCCTTTATTGCTCCCGTACGAACCCCTCCCCTCCCCCCTG		
6528	T	A	A		CTCAGTTTCTCCTTTATTGCTCCTGTACGAACCCCTCCCCTCCCCCCTG		
					CCTTCTCTGCCAGCGATCTCGCAGCACTGTGTTTACAGGGGGGAGGGGAGGGGTTCGTAC[GA]GGAGCAATAAAGGAGAAACTGAGGTACCCGGCTGGCATCG		
6528	IS	[GA]			GTCCTGCCCCATCACTGGCT		
6529	I		S		TGAGGCCACCTCGGGTCAGCCTA		
6529	P	A	S		CGCGCCGAGGTGCCTCTCACAGTAGC		
6529	P	G	S		ATGACGTGGCAGACCGCCTCTCACAGTAGC		
6529	T	A	S		GGGGGCTACTGTGAGAGGCAAGGCTGACCCGAGGTGGCCTCAGG		
6529	T	G	S		GGGGGCTACTGTGAGAGGCGAGGCTGACCCGAGGTGGCCTCAGG		
					AACAGTGTGAGTTCAGCAGGCCGCTGTGCAGCGGGCAGGGCGGGGGCTACTGTGAGAGGC[AG]AGGCTGACCCGAGGTGGCCTCAGGAGCCCAGCCTTACCT		
6529	IS	[AG]			CACAGAACTCCTGGGTCAGCT	ctg15907	6
6542	I		S		TCAATGGTCACGTAGACGGCAAATGTGCACAT		
6542	P	C	S		ATGACGTGGCAGACGGGCCACCTGCAA		
6542	P	T	S		CGCGCCGAGGAGGCCACCTGCAAG		
6542	T	C	S		TCTGCTTGCAGGTGGCCCTGTGCACATTTGCCGTCTACGTGACCATTGACG		
6542	T	T	S		TCTGCTTGCAGGTGGCCTTGTGCACATTTGCCGTCTACGTGACCATTGACG		
					GATGATGACTCTCACTCAGGGCACAGCAGTCAGCACTGGGCGTTCTGCTTGCAGGTGGCC[CT]TGTGCACATTTGCCGTCTACGTGACCATTGACGAGAACAACA		
6542	IS	[CT]			TCCTGGATGCCCAGACAG	ctg14946	16
6581	I		A		ATCATGAGTACCTAAGATATCCGGTACTATCTAATAACTTCTGGATTACT		
6581	P	G	A		ATGACGTGGCAGACGTAGGGGCACAACCT		
6581	P	A	A		CGCGCCGAGGATAGGGGCACAACCTAG		
6581	T	G	A		CATCCTAGGTTGTGCCCCTACGTAATCCAGAAGTTATTAGATAGTACCGGATATCTTAGGTACTCATGATTC		
6581	T	A	A		CATCCTAGGTTGTGCCCCTATGTAATCCAGAAGTTATTAGATAGTACCGGATATCTTAGGTACTCATGATTC		
					GTCTGTCAAGAATCATGAGTACCTAAGATATCCGGTACTATCTAATAACTTCTGGATTAC[GA]TAGGGGCACAACCTAGGATGAGCTACCCCCAAATTTAAGGCTTC		
6581	IS	[GA]			TGAGCTTGTGTGAGTT	ctg15064	7
6595	I		A		GCTCCCCTACCCGACACCCGTCAT		
6595	P	A	A		CGCGCCGAGGACCCGGTCTAGATTCC		
6595	P	C	A		ATGACGTGGCAGACCCCCGGTCTAGATTCC		
6595	T	A	A		GAATGGAATCTAGACCGGGTTGACGGGTGTCGGGTAGGGGAGCTG		
6595	T	C	A		GAATGGAATCTAGACCGGGGTGACGGGTGTCGGGTAGGGGAGCTG		
					CAGGCTCATGCCTGGACTTGGCCTTGGCTGCCCTCCAGCTCCCCTACCCGACACCCGTCA[AC]CCCGGTCTAGATTCCATTCCAGAGAATGAGCATTCAGCTGTT		
6595	IS	[AC]			CTCCCAACCCACCCTCCA	ctg15944	11
6627	I		S		CTGCGTATGCACATCAAATAAATTCCAAACGCAGCCT		
6627	P	C	S		ATGACGTGGCAGACGTCTATTCCCAAGGTATCTTAAC		
6627	P	T	S		CGCGCCGAGGATCTATTCCCAAGGTATCTTAAC		
6627	T	C	S		TGGAGTTAAGATACCTTGGGAATAGACGGCTGCGTTTGGAATTTATTTGATGTGCATACGCAGTC		
6627	T	T	S		TGGAGTTAAGATACCTTGGGAATAGATGGCTGCGTTTGGAATTTATTTGATGTGCATACGCAGTC		
					CGTAATCATTGACAGACAGCAGTGAGATATCTGGTGGAGTTAAGATACCTTGGGAATAGA[CT]GGCTGCGTTTGGAATTTATTTGATGTGCATACGCAGTCTGTCA		
6627	IS	[CT]			TCTTTCCAGCCAATCCC	ctg13023	2
6628	I		A		GGGAATAGACGGCTGCGTTTGGAATTTATTTGATGTGCATAA		
6628	P	C	A		ATGACGTGGCAGACCGCAGTCTGTCATCTTTC		
6628	P	T	A		CGCGCCGAGGTGCAGTCTGTCATCTTTC		
6628	T	C	A		GCTGGAAAGATGACAGACTGCGTATGCACATCAAATAAATTCCAAACGCAGCCGTCTATTCCCAA		
6628	T	T	A		GCTGGAAAGATGACAGACTGCATATGCACATCAAATAAATTCCAAACGCAGCCGTCTATTCCCAA		

FIGURE 129B

				GGTGGAGTTAAGATACCTTGGGAATAGACGGCTGCGTTTGGAATTTATTTGATGTGCATA[CT]GCAGTCTGTCATCTTTCCAGCCAATCCCATATTGCTGTCTTGC		
6628	IS	[CT]		CTCTTCATTATCTCCCC	ctg13023	2
6639	I		S	CGAAAATGACCTTCCTTTCACCATCCAAGGCCTATC		
6639	P	A	S	CGCGCCGAGGTCTCCTGTGCAGGACY		
6639	P	C	S	ATGACGTGGCAGACGCTCCTGTGCAGGAY		
6639	T	A	S	CGTTGTCCTGCACAGGAGAATAGGCCTTGGATGGTGAAAGGAAGGTCATTTTCGCA		
6639	T	C	S	CGTTGTCCTGCACAGGAGCATAGGCCTTGGATGGTGAAAGGAAGGTCATTTTCGCA		
				ACCGGATCCACAAACTGGTAAGAAGAGAAGGCTTCATGTGGACGTTGTCCTGCACAGGAG[AC]ATAGGCCTTGGATGGTGAAAGGAAGGTCATTTTCGCAGCACT		
6639	IS	[AC]		TAGAGCAGCATCTTGAGT	ctg22fin4	22
6640	I		A	GGAGAATAGGCCTTGGATGGTGAAAGGAAGGTCATTTTA		
6640	P	C	A	ATGACGTGGCAGACCGCAGCACTTAGAGCY		
6640	P	T	A	CGCGCCGAGGTGCAGCACTTAGAGCAY		
6640	T	C	A	ATGCTGCTCTAAGTGCTGCGAAAATGACCTTCCTTTCACCATCCAAGGCCTATTCTCCTG		
6640	T	T	A	ATGCTGCTCTAAGTGCTGCAAAAATGACCTTCCTTTCACCATCCAAGGCCTATTCTCCTG		
				CATGTGGACGTTGTCCTGCACAGGAGAATAGGCCTTGGATGGTGAAAGGAAGGTCATTTT[CT]GCAGCACTTAGAGCAGCATCTTGAGTCCGACTAAGTCTGCAA		
6640	IS	[CT]		CGTCTTACTATGAAGTAT	ctg22fin4	22
6644	I		A	TGGAATTCTGTCAAGTACACATTCAGGGCCCCATCT		
6644	P	G	A	ATGACGTGGCAGACGAATCACAGGGAGGCCY		
6644	P	A	A	CGCGCCGAGGAAATCACAGGGAGGCCY		
6644	T	G	A	TCACGGCCTCCCTGTGATTCGATGGGGCCCTGAATGTGTACTTGACAGAATTCCAAA		
6644	T	A	A	TCACGGCCTCCCTGTGATTTGATGGGGCCCTGAATGTGTACTTGACAGAATTCCAAA		
				GTGGGGGTATGGCACCAAGTTGGTTTGGAATTCTGTCAAGTACACATTCAGGGCCCCATC[GA]AATCACAGGGAGGCCGTGATGGAGGACACGATCTGCCCAGA		
6644	IS	[GA]		CGACTGAGGTTGGTGTACG	ctg22fin4	22
6648	I		A	CATCTAGTGGGTAGAAGTAAGGGATACTGCTAAACAACTTGCAAA		
6648	P	C	A	ATGACGTGGCAGACCGCACAGGACAGCY		
6648	P	T	A	CGCGCCGAGGTGCACAGGACAGCCY		
6648	T	C	A	TGGGGGCTGTCCTGTGCGTTGCAAGTTGTTTAGCAGTATCCCTTACTTCTACCCACTAGATGCC		
6648	T	T	A	TGGGGGCTGTCCTGTGCATTGCAAGTTGTTTAGCAGTATCCCTTACTTCTACCCACTAGATGCC		
				GAAGAGAATCTACTGGCATCTAGTGGGTAGAAGTAAGGGATACTGCTAAACAACTTGCAA[CT]GCACAGGACAGCCCCCATCCCTTAACAAAAAAATTACTGAGTC		
6648	IS	[CT]		TAAAAGTTCAATAAAGC	ctg15804	2
6656	I		S	AGCCCTGAAGTTCTAGACCAGCCTAGGCAACT		
6656	P	T	S	CGCGCCGAGGATGGCAAACCCTTTCTCY		
6656	P	C	S	ATGACGTGGCAGACGTGGCAAACCCTTTCTCY		
6656	T	T	S	GGGGGAGAAAGGGTTTGCCATGTTGCCTAGGCTGGTCTAGAACTTCAGGGCTCA		
6656	T	C	S	GGGGGAGAAAGGGTTTGCCACGTTGCCTAGGCTGGTCTAGAACTTCAGGGCTCA		
				CCTCAGGAGTAGCTGGGACTATGCTAATTTTTAATCTTTTGGGGGAGAAAGGGTTTGCCA[TC]GTTGCCTAGGCTGGTCTAGAACTTCAGGGCTCAAGCAATCCTC		
6656	IS	[TC]		CCACGTTGGCCTCCCAA	ctg12325	11
6666	I		A	TGATTGGGTATGGGGGGACAGGAGT		
6666	P	G	A	ATGACGTGGCAGACGGCTACCTGATGGAATAACTCY		
6666	P	A	A	CGCGCCGAGGGACTACCTGATGGAATAACTCTY		
6666	T	G	A	AGAGAGAGTTATTCCATCAGGTAGCCCTCCTGTCCCCCCATACCCAATCAAT		
6666	T	A	A	AGAGAGAGTTATTCCATCAGGTAGTCCTCCTGTCCCCCCATACCCAATCAAT		
				CGCTCCATATCATTGATTGCTCCATATCATATCATTGATTGGGTATGGGGGGACAGGAGG[GA]CTACCTGATGGAATAACTCTCTCTTCACCGATTCCTTGTTGTA		
6666	IS	[GA]		GACTATTGGGGAGAGTC	ctg22fin3	22
6669	I		S	AGCCCTGGAGGAGTATATATCAAAAAGACATCCCATATAT		
6669	P	G	S	CGCGCCGAGGCTAAATAACTGAGGCCCTAACY		
6669	P	C	S	ATGACGTGGCAGACGTAAATAACTGAGGCCCTAACY		
6669	T	G	S	TGTTGTTAGGGCCTCAGTTATTTAGTATATGGGATGTCTTTTTGATATATACTCCTCCAGGGCTTA		
6669	T	C	S	TGTTGTTAGGGCCTCAGTTATTTACTATATGGGATGTCTTTTTGATATATACTCCTCCAGGGCTTA		
				TTACATGCTTTTAATACAGCTAATTACAAGCACATGTGTTGTTAGGGCCTCAGTTATTTA[GC]TATATGGGATGTCTTTTTGATATATACTCCTCCAGGGCTTATCTT		
6669	IS	[GC]		TCCTTTCCTACTGTT	ctg13214	2
6680	I		A	AGCTTCTCCTGAAGTATTTATCAGGATCCACCCTGGTTT		
6680	P	A	A	CGCGCCGAGGAAAGGCATCAACGGTTTY		
6680	P	G	A	ATGACGTGGCAGACGAAGGCATCAACGGTTTY		
6680	T	A	A	CTCAAAACCGTTGATGCCTTTAACCAGGGTGGATCCTGATAAATACTTCAGGAGAAGCTGG		
6680	T	G	A	CTCAAAACCGTTGATGCCTTCAACCAGGGTGGATCCTGATAAATACTTCAGGAGAAGCTGG		
				CAATACCCCAACCAAGGACTCCAGCTTCTCCTGAAGTATTTATCAGGATCCACCCTGGTT[AG]AAGGCATCAACGGTTTTGAGGCTGAATTTAACAAGAGTCAAACT		
6680	IS	[AG]		TCCTTCCACTTGAGGA	ctg53	14
6681	I		S	GAAGTTTGACTCTTGTTAAATTCAGCCTCAAAACCGTTGATGCA		
6681	P	G	S	ATGACGTGGCAGACCTTTAACCAGGGTGGATCY		
6681	P	A	S	CGCGCCGAGGTTTTAACCAGGGTGGATCY		
6681	T	G	S	TCAGGATCCACCCTGGTTAAAGGCATCAACGGTTTTGAGGCTGAATTTAACAAGAGTCAAACTTCCT		
6681	T	A	S	TCAGGATCCACCCTGGTTAAAAGCATCAACGGTTTTGAGGCTGAATTTAACAAGAGTCAAACTTCCT		
				TACCCCAACCAAGGACTCCAGCTTCTCCTGAAGTATTTATCAGGATCCACCCTGGTTAAA[GA]GCATCAACGGTTTTGAGGCTGAATTTAACAAGAGTCAAACTTCC		
6681	IS	[GA]		TTCCACTTGAGGAAAC	ctg53	14
6695	I		A	TGAGTTGCACATATGACACCAGTGAGAGTAATTATTATTTGTTCTGGTACAAT		
6695	P	G	A	ATGACGTGGCAGACGCAGCCTCCCAGCY		
6695	P	A	A	CGCGCCGAGGACAGCCTCCCAGCY		
6695	T	G	A	GCCTGCTGGGAGGCTGCTTGTACCAGAACAAATAATAATTACTCTCACTGGTGTCATATGTGCAACTCAGG		
6695	T	A	A	GCCTGCTGGGAGGCTGTTTGTACCAGAACAAATAATAATTACTCTCACTGGTGTCATATGTGCAACTCAGG		
				TGTGACCCTGAGTTGCACATATGACACCAGTGAGAGTAATTATTATTTGTTCTGGTACAA[GA]CAGCCTCCCAGCAGGCAGATGATTCTCGTTATTCGCCAAGAAG		
6695	IS	[GA]		CTTATAAGCAACAGAAT	ctg53	14
6712	I		S	AGGAGGGTGGCTCCTCTCCACTCCAA		
6712	P	G	S	ATGACGTGGCAGACCGGACAAACAGGAGTGY		
6712	P	A	S	CGCGCCGAGGTGGACAAACAGGAGTGGY		
6712	T	G	S	CAGGCCACTCCTGTTTGTCCGTGGAGTGGAGAGGAGCCACCCTCCTGC		
6712	T	A	S	CAGGCCACTCCTGTTTGTCCATGGAGTGGAGAGGAGCCACCCTCCTGC		
				TTCCAAAGGTAGCAGTGAGGATGGCACACATTTATGTAGCCAGGCCACTCCTGTTTGTCC[GA]TGGAGTGGAGAGGAGCCACCCTCCTGCCCTCTCAGAGGTCCA		
6712	IS	[GA]		GGTGTGCTCACTCCTATT	ctg12325	11
6713	I		S	GGAGAAAGAAAGTCCAGGGTCAAACGGGAAGGTT		
6713	P	C	S	ATGACGTGGCAGACGGCACCCCCTACCY		
6713	P	G	S	CGCGCCGAGGCGCACCCCCTACCY		
6713	T	C	S	TGCTGGTAGGGGGTGCCACCTTCCCGTTTGACCCTGGACTTTCTTTCTCCAC		
6713	T	G	S	TGCTGGTAGGGGGTGCGACCTTCCCGTTTGACCCTGGACTTTCTTTCTCCAC		
				CAGCCCTGCAGGGGCCCCTGGCTCTGCTCGTGTTTCTGGGCTTCTGCTGGTAGGGGGTGC[CG]ACCTTCCCGTTTGACCCTGGACTTTCTTTCTCCACTGCCCA		
6713	IS	[CG]		CTTTCACCCACTGGGCAGC	ctg12325	11
6720	I		A	GGCTCAAAATCTCTTAGTCAATCCCATATACATGCTTCCCCAT		
6720	P	C	A	CGCGCCGAGGCAGAGTCTAGTTCCTCCAGY		
6720	P	G	A	ATGACGTGGCAGACGAGAGTCTAGTTCCTCCAGY		
6720	T	C	A	CTTGCTGGAGGAACTAGACTCTGTGGGGAAGCATGTATATGGGATTGACTAAGAGATTTTGAGCCTT		
6720	T	G	A	CTTGCTGGAGGAACTAGACTCTCTGGGGAAGCATGTATATGGGATTGACTAAGAGATTTTGAGCCTT		
				CTCGGGCCATGCCTTGAAGGCTCAAAATCTCTTAGTCAATCCCATATACATGCTTCCCCA[CG]AGAGTCTAGTTCCTCCAGCAAGACCTGGGCTATACTCACCCCT		
6720	IS	[CG]		CCCCACATATCTTGGAG	ctg14145	11
6744	I		A	CCTCTCTGTAGTGGTCTCCTTGCGCCAC		
6744	P	G	A	ATGACGTGGCAGACGATTCAGCGCAGAGCY		
6744	P	T	A	CGCGCCGAGGTATTCAGCGCAGAGCCY		
6744	T	G	A	GGGCGGCTCTGCGCTGAATCTGGCGCAAGGAGACCACTACAGAGAGGCC		
6744	T	T	A	GGGCGGCTCTGCGCTGAATATGGCGCAAGGAGACCACTACAGAGAGGCC		

FIGURE 129B

				GCCTGACTCACACCTGCCTCCTCTGTGCCTTGGCCTCTCTGTAGTGGTCTCCTTGCGCCA[GT]ATTCAGCGCAGAGCCGCCCAGGAAAAGGAGCGGAGCCAGGA			
6744	IS	[GT]		ACTCAGGCGTCTGCAGGAG	ctg15907	6
6760	I		S	ACCTGGGCTTGATTTCCCCTAGGGACTGAGT		
6760	P	C	S	ATGACGTGGCAGACGGCTCACTCCTTGTACGY		
6760	P	T	S	CGCGCCGAGGAGCTCACTCCTTGTACGY		
6760	T	C	S	CTGCCGTACAAGGAGTGAGCCCTCAGTCCCTAGGGGAAATCAAGCCCAGGTAC		
6760	T	T	S	CTGCCGTACAAGGAGTGAGCTCTCAGTCCCTAGGGGAAATCAAGCCCAGGTAC		
				CTCAGGCCCACAGCGGCACGGGGGCTGATTCTCAAAGACGCTGCCGTACAAGGAGTGAGC[CT]CTCAGTCCCTAGGGGAAATCAAGCCCAGGTACAGCGACGAC		
6760	IS	[CT]		TCCCATAGTGGCTGCATGA	ctg15330	9
6781	I		A	AAATGTGCAAAAAATATGTAAAACATGAGTGTATTCTTCTTCCTTTGTTATTTA		
6781	P	C	A	ATGACGTGGCAGACCGCTGAATACAGAATGTTGY		
6781	P	T	A	CGCGCCGAGGTGCTGAATACAGAATGTTGTY		
6781	T	C	A	AAGAACAACATTCTGTATTCAGCGAAATAACAAAGGAAGAAGAATACACTCATGTTTTACATATTTTTTGCACATTTGA		
6781	T	T	A	AAGAACAACATTCTGTATTCAGCAAAATAACAAAGGAAGAAGAATACACTCATGTTTTACATATTTTTTGCACATTTGA		
				CAAGGTCAAATGTGCAAAAAATATGTAAAACATGAGTGTATTCTTCTTCCTTTGTTATTT[CT]GCTGAATACAGAATGTTGTTCTTATTGCATAACAGCTCATCGCAAA		
6781	IS	[CT]		TGGCTCCAGTCACA	ctg13715	13
6787	I		S	GCCTGAGGGGCTAAGCCAGATGTCTTCAT		
6787	P	G	S	CGCGCCGAGGCAGCTTTGATTTCCCATCCY		
6787	P	C	S	ATGACGTGGCAGACGAGCTTTGATTTCCCATCCY		
6787	T	G	S	TTTGGGATGGGAAATCAAAGCTGTGAAGACATCTGGCTTAGCCCCTCAGGCAT		
6787	T	C	S	TTTGGGATGGGAAATCAAAGCTCTGAAGACATCTGGCTTAGCCCCTCAGGCAT		
				TATTCACTATACGTTGAGCGTTACCCTGCACTAAGCACTTTGGGATGGGAAATCAAAGCT[GC]TGAAGACATCTGGCTTAGCCCCTCAGGCATTCCCGGGCATCCC		
6787	IS	[GC]		TCAGGAGCTGTTTCTTT	ctg15907	6
6799	I		S	TCCTCATCTTATTTTTCTTACTAACTTTTTGCTCTTATCCTTTATTTACTCTGTTTTA		
6799	P	A	S	CGCGCCGAGGTCCAACACTTCAGGTTTGY		
6799	P	G	S	ATGACGTGGCAGACCCCAACACTTCAGGTTTY		
6799	T	A	S	TTTCCAAACCTGAAGTGTTGGAAAAACAGAGTAAATAAAGGATAAGAGCAAAAAGTTAGTAAGAAAAATAAGATGAGGATG		
6799	T	G	S	TTTCCAAACCTGAAGTGTTGGGAAAACAGAGTAAATAAAGGATAAGAGCAAAAAGTTAGTAAGAAAAATAAGATGAGGATG		
				AGTTTCTAGTGGTTTATTATGATGACATGAAGAGAGCAATTTCCAAACCTGAAGTGTTGG[AG]AAAACAGAGTAAATAAAGGATAAGAGCAAAAAGTTAGTAAGAAA		
6799	IS	[AG]		AATAAGATGAGGATGA		
6838	I		A	AGGGGGATTCAATGTGTCTGTCTCATCCAATAAGCACC		
6838	P	T	A	CGCGCCGAGGTCATGACCTCAGCCCY		
6838	P	G	A	ATGACGTGGCAGACGCATGACCTCAGCCY		
6838	T	T	A	TATGGGGCTGAGGTCATGAGTGCTTATTGGATGAGACAGACACATTGAATCCCCCTCC		
6838	T	G	A	TATGGGGCTGAGGTCATGCGTGCTTATTGGATGAGACAGACACATTGAATCCCCCTCC		
				GGATACTGGGAAAGGGTAACTGGAGGGGGATTCAATGTGTCTGTCTCATCCAATAAGCAC[TG]CATGACCTCAGCCCCATACTCTTTCTTCCCTATGTTCCCAGAG		
6838	IS	[TG]		ACAGAATAGACCTGGCC	ctg15064	7
6854	I		A	GTATTTCCAATGAGACTGCCTTGGAAGTTCTTTGTGAGTTGAA		
6854	P	T	A	CGCGCCGAGGTAGGAGTTATCAAGCCAGGY		
6854	P	C	A	ATGACGTGGCAGACCAGGAGTTATCAAGCCAGY		
6854	T	T	A	GGGTCCTGGCTTGATAACTCCTATCAACTCACAAAGAACTTCCAAGGCAGTCTCATTGGAAATACAC		
6854	T	C	A	GGGTCCTGGCTTGATAACTCCTGTCAACTCACAAAGAACTTCCAAGGCAGTCTCATTGGAAATACAC		
				CCCTGACCCTGGGGTAGTGTATTTCCAATGAGACTGCCTTGGAAGTTCTTTGTGAGTTGA[TC]AGGAGTTATCAAGCCAGGACCCCCAAATTTGCTTCAGCAGCGT		
6854	IS	[TC]		CGTTTGCATCAAGATCA	ctg15064	7
6861	I		A	CCACACATTGGATGCTCCGCCCCCT		
6861	P	A	A	CGCGCCGAGGACGCACCCACATGCY		
6861	P	G	A	ATGACGTGGCAGACGCGCACCCACATGY		
6861	T	A	A	CACTGCATGTGGGTGCGTGGGGGCGGAGCATCCAATGTGTGGGA		
6861	T	G	A	CACTGCATGTGGGTGCGCGGGGGCGGAGCATCCAATGTGTGGGA		
				GGCAGCCCTGCCCACCTGTACATATGCTCCTCCCTCCCACACATTGGATGCTCCGCCCCC[AG]CGCACCCACATGCAGTGTATGTACATCCACCGTACATACGAT		
6861	IS	[AG]		GCTCCACCCACATGCACA	ctg19	19
6892	I		A	CTCCTCGCGGCCTCATCTTTGTCATGGATACT		
6892	P	A	A	CGCGCCGAGGAACTGGGTCCTCCTTTATY		
6892	P	C	A	ATGACGTGGCAGACCACTGGGTCCTCCTTTY		
6892	T	A	A	GCAAATAAAGGAGGACCCAGTTGTATCCATGACAAAGATGAGGCCGCGAGGAGGG		
6892	T	C	A	GCAAATAAAGGAGGACCCAGTGGTATCCATGACAAAGATGAGGCCGCGAGGAGGG		
				CACTCTGCCTGCCCCCAAACCCACTCGCCCTCCTCGCGGCCTCATCTTTGTCATGGATAC[AC]ACTGGGTCCTCCTTTATTTGCCACAACCTAACTGCAGGTTCTG		
6892	IS	[AC]		TCATCCTGCCTGACCCC	ctg15907	6
6918	I		S	CTAGTGAAACAGTGTGCTCAGTTAATACATTCTTCTTGCCCCT		
6918	P	T	S	CGCGCCGAGGATATTAATAACACCAGATTTTCAGAAAY		
6918	P	C	S	ATGACGTGGCAGACGTATTAATAACACCAGATTTTCAGAAY		
6918	T	T	S	TGGATTTCTGAAAATCTGGTGTTATTAATATGGGGCAAGAAGAATGTATTAACTGAGCACACTGTTTCACTAGTA		
6918	T	C	S	TGGATTTCTGAAAATCTGGTGTTATTAATACGGGGCAAGAAGAATGTATTAACTGAGCACACTGTTTCACTAGTA		
				AAATAGAATGTGCTTCAGAGGAAGCTCAAGTGGATTTCTGAAAATCTGGTGTTATTAATA[TC]GGGGCAAGAAGAATGTATTAACTGAGCACACTGTTTCACTAGTA		
6918	IS	[TC]		GATATTGAGTAACTCA	ctg18743	16
6928	I		A	TCATAAAGAAGGTTCAGGACCTAGAACGGGCAGCT		
6928	P	G	A	ATGACGTGGCAGACGCTGCCTGCCCAY		
6928	P	A	A	CGCGCCGAGGACTGCCTGCCCAGY		
6928	T	G	A	GCTCCTGGGCAGGCAGCGCTGCCCGTTCTAGGTCCTGAACCTTCTTTATGATC		
6928	T	A	A	GCTCCTGGGCAGGCAGTGCTGCCCGTTCTAGGTCCTGAACCTTCTTTATGATC		
				GTTGCAGAACACCACTATCAAGCGGATCATAAAGAAGGTTCAGGACCTAGAACGGGCAGC[GA]CTGCCTGCCCAGGAGCTGGAGGAGGTGTGTGGCTCGCAAGG		
6928	IS	[GA]		TACAGGGAGAGGGGAATCC	ctg16401	17
11067	I		A	TGCTGGGATTACGGGTGTGAGCCACCT		
11067	P	A	A	CGCGCCGAGGACACCTGGCCTAAAATATTT		
11067	P	C	A	ATGACGTGGCAGACCCACCTGGCCTAAAATATT		
11067	T	A	A	AAAAAAATATTTTAGGCCAGGTGTGGTGGCTCACACCCGTAATCCCAGCACT		
11067	T	C	A	AAAAAAATATTTTAGGCCAGGTGGGGTGGCTCACACCCGTAATCCCAGCACT		
				CCTCAAGTGATCCACCCACCTCAGCCTCCCAAAGTGCTGGGATTACGGGTGTGAGCCACC[AC]CACCTGGCCTAAAATATTTTTTTTAGTTAGATACTTAGAGAAAT		
11067	IS	[AC]		TAAAAAGATCCTGACA	ctg16687	15
11071	I		A	GCTGGAGCCCTGACATAGCTCCTACGTGA		
11071	P	T	A	CGCGCCGAGGTCATGTTAGGCAGTGTCAY		
11071	P	C	A	ATGACGTGGCAGACCCATGTTAGGCAGTGTCY		
11071	T	T	A	GCAATGACACTGCCTAACATGACACGTAGGAGCTATGTCAGGGCTCCAGCAT		
11071	T	C	A	GCAATGACACTGCCTAACATGGCACGTAGGAGCTATGTCAGGGCTCCAGCAT		
				TGTTGGATCATGTAGGAGGCATGTCAAGGCATGCTGGAGCCCTGACATAGCTCCTACGTG[TC]CATGTTAGGCAGTGTCATTGCTGTGCTGTGCTGCCGTAGCCT		
11071	IS	[TC]		GGTCTGGTCTTCCCTCCC	ctg18433	19
11072	I		S	CCCAGGTTGTTCCCAACCCTGTTCACCTT		
11072	P	C	S	ATGACGTGGCAGACGCAGATACTCACCCAGCY		
11072	P	T	S	CGCGCCGAGGACAGATACTCACCCAGCY		
11072	T	C	S	CCTGGCTGGGTGAGTATCTGCAGGTGAACAGGGTTGGGAACAACCTGGGGG		
11072	T	T	S	CCTGGCTGGGTGAGTATCTGTAGGTGAACAGGGTTGGGAACAACCTGGGGG		
				ATTGTACCAAAGGACAAGGTCTTCTACAGCTTCCTGAAGCCCTGGCTGGGTGAGTATCTG[CT]AGGTGAACAGGGTTGGGAACAACCTGGGGGGCCAGGGGAGG		
11072	IS	[CT]		GAGATGCCCTTGCCCATGG	ctg18433	19
11073	I		A	TGAGGTGGCACGCTTTTTCCTGAGCACAT		
11073	P	C	A	ATGACGTGGCAGACCTGCCAGCCAGCGY		
11073	P	A	A	CGCGCCGAGGATGCCAGCCAGCGY		
11073	T	C	A	TCACCGCTGGCTGGCAGTGTGCTCAGGAAAAAGCGTGCCACCTCACA		
11073	T	A	A	TCACCGCTGGCTGGCATTGTGCTCAGGAAAAAGCGTGCCACCTCACA		

FIGURE 129B

				GCCAAGTTCGGGCAGCCCCAAGGATCCCCTTGTGAGGTGGCACGCTTTTTCCTGAGCACA[CA]TGCCAGCCAGCGGTGAATGCCAGTGGCATTATGCCAACCCC			
11073	IS	[CA]		CTAGTGCCTAGCAGCTCGT	ctg21fin2	21	SIM2
11080	I		A	GCTCTGTGGGGCCCTGGCACTTAGT			
11080	P	G	A	ATGACGTGGCAGACGAGTGACAGGAGCCAY			
11080	P	C	A	CGCGCCGAGGCAGTGACAGGAGCCAY			
11080	T	G	A	GGACTGGCTCCTGTCACTCCTAAGTGCCAGGGCCCCACAGAGCCC			
11080	T	C	A	GGACTGGCTCCTGTCACTGCTAAGTGCCAGGGCCCCACAGAGCCC			
				TGGTGGGTTACAGATCTTGACCACTTGGCACCAGGGGCTCTGTGGGGCCCTGGCACTTAG[GC]AGTGACAGGAGCCAGTCCTGCCCTGCAGGAGCACCCGGGC			
11080	IS	[GC]		TGGTGGGCGTCTGGGGGATT	ctg21fin5	21	
11081	I		A	AGCCTAGCCTGGCTGTCTGGGGGT			
11081	P	G	A	ATGACGTGGCAGACGATTCTGGAGGAAGTGGTY			
11081	P	C	A	CGCGCCGAGGCATTCTGGAGGAAGTGGY			
11081	T	G	A	AGGTACCACTTCCTCCAGAATCCCCCCAGACAGCCAGGCTAGGCTGG			
11081	T	C	A	AGGTACCACTTCCTCCAGAATGCCCCCAGACAGCCAGGCTAGGCTGG			
				ATTGTTAGAATGAGTGAGGTCATTGCCGTGCAGGACCAGCCTAGCCTGGCTGTCTGGGGG[GC]ATTCTGGAGGAAGTGGTACCTGGGAGACCCCTGAAGGCACA			
11081	IS	[GC]		GCAGGCACCATCCAGGCAG	ctg21fin5	21	
11082	I		A	CCTGGCCCCACTGCCCTGTGAGT			
11082	P	G	A	ATGACGTGGCAGACGAAGGGTTCATGTGGTTGY			
11082	P	A	A	CGCGCCGAGGAAAGGGTTCATGTGGTTGY			
11082	T	G	A	ACACCAACCACATGAACCCTTCCTCACAGGGCAGTGGGGCCAGGCC			
11082	T	A	A	ACACCAACCACATGAACCCTTTCTCACAGGGCAGTGGGGCCAGGCC			
				ATTCAGCAGGCGCTGAGGTCGGGAGAGACCTCCCTGGGCCTGGCCCCACTGCCCTGTGAG[GA]AAGGGTTCATGTGGTTGGTGTACAGTTCCGGGGCCCCTGG			
11082	IS	[GA]		AACGCAGCAGCCTGCAAGAA	ctg21fin5	21	
11087	I		A	CCGCCCCAGCCCTGAAAGCGTTAAA			
11087	P	T	A	CGCGCCGAGGTCCTGGAGCTTTCTGCY			
11087	P	C	A	ATGACGTGGCAGACCCCTGGAGCTTTCTGY			
11087	T	T	A	GTGTGCAGAAAGCTCCAGGATTAACGCTTTCAGGGCTGGGGCGGAA			
11087	T	C	A	GTGTGCAGAAAGCTCCAGGGTTAACGCTTTCAGGGCTGGGGCGGAA			
				CCACCCCTCACGCCCCACCTCCCTGGGGGATCCTTTCCGCCCCAGCCCTGAAAGCGTTAA[TC]CCTGGAGCTTTCTGCACACCCCCCGACCGCTCCCGCCCAAG			
11087	IS	[TC]		CTTCCTAAAAAAGAAAGGT	ctg17944	8	
11088	I		A	GGCGAGGATGCAGAACTGGGGTGTCTTTA			
11088	P	C	A	ATGACGTGGCAGACCCCAGTGAGTAATTGGAGY			
11088	P	T	A	CGCGCCGAGGTCCAGTGAGTAATTGGAGCY			
11088	T	C	A	AGAGGCTCCAATTACTCACTGGGAAAGACACCCCAGTTCTGCATCCTCGCCCT			
11088	T	T	A	AGAGGCTCCAATTACTCACTGGAAAAGACACCCCAGTTCTGCATCCTCGCCCT			
				ACACCTGATGTGGGTGTGGTGCGACTTCCCAGGGCGAGGATGCAGAACTGGGGTGTCTTT[CT]CCAGTGAGTAATTGGAGCCTCTGTCCCTCGGTGACTTCTCAA			
11088	IS	[CT]		CCAGCAGTGCCACCCCCC	ctg16166	14	
11097	I		A	TCCACAGCTGGTTCCTGGGAACCCCT			
11097	P	G	A	ATGACGTGGCAGACGCAGGGCATGCGY			
11097	P	A	A	CGCGCCGAGGACAGGGCATGCGGY			
11097	T	G	A	TGCTCCGCATGCCCTGCGGGGTTCCCAGGAACCAGCTGTGGAGC			
11097	T	A	A	TGCTCCGCATGCCCTGTGGGGTTCCCAGGAACCAGCTGTGGAGC			
				GGAAGGAGCCGCAGAGCTTCTCAAGGGGCCTTGGCTCCACAGCTGGTTCCTGGGAACCCC[GA]CAGGGCATGCGGAGCAGGTGCAGGCTCGACTACAGCTCGT			
11097	IS	[GA]		GGACTCGGCCGGCAGCGAGT	ctg16045	6	KNSL3
11098	I		A	CCCTGCCTGGGTCCCAAACTATCCCCT			
11098	P	A	A	CGCGCCGAGGACCATTACAGGAAATACACAGY			
11098	P	G	A	ATGACGTGGCAGACGCCATTACAGGAAATACACAY			
11098	T	A	A	CGTACTGTGTATTTCCTGTAATGGTGGGGATAGTTTGGGACCCAGGCAGGGGT			
11098	T	G	A	CGTACTGTGTATTTCCTGTAATGGCGGGGATAGTTTGGGACCCAGGCAGGGGT			
				TGGGTCTGAAGGAGGAGGGGGCTGGGGGCAATACCCCTGCCTGGGTCCCAAACTATCCCC[AG]CCATTACAGGAAATACACAGTACGCCTGGGAGACCACAGCC			
11098	IS	[AG]		TACAGAATAAAGATGGCCC	ctg5212	19	
11102	I		A	GGCCATGGTCATGCATCAGCCCTACTCAA			
11102	P	C	A	ATGACGTGGCAGACCTTAAAGATCACACAAAAAGGTY			
11102	P	T	A	CGCGCCGAGGTTTAAAGATCACACAAAAAGGTGY			
11102	T	C	A	GGCTCACCTTTTTGTGTGATCTTTAAGTGAGTAGGGCTGATGCATGACCATGGCCTC			
11102	T	T	A	GGCTCACCTTTTTGTGTGATCTTTAAATGAGTAGGGCTGATGCATGACCATGGCCTC			
				CTTCTGACTGCTTGTTGTTTGTACTTCCTAGAGGCCATGGTCATGCATCAGCCCTACTCA[CT]TTAAAGATCACACAAAAAGGTGAGCCTTTTATAGACATTATGAA			
11102	IS	[CT]		CTAATCACATAAAGTA	ctg15148	8	
11177	I		A	GAAGGGGGCAAGTTCGGGTTTAGTCCCTT			
11177	P	A	A	CGCGCCGAGGACCCTCCTCTTCCAGY			
11177	P	G	A	ATGACGTGGCAGACGCCCTCCTCTTCCAGY			
11177	T	A	A	TCTGCTGGAAGAGGAGGGTAGGGACTAAACCCGAACTTGCCCCCTTCTC			
11177	T	G	A	TCTGCTGGAAGAGGAGGGCAGGGACTAAACCCGAACTTGCCCCCTTCTC			
				CATAGCCCGTTCCAAAGAAGGGTCTAAAGGGAGAAGGGGGCAAGTTCGGGTTTAGTCCCT[AG]CCCTCCTCTTCCAGCAGAAAACCCACCGCTTTTCTCTTGTTC			
11177	IS	[AG]		AGCTCCTTTAAGATTGTC	ctg11	15	
11193	I		S	GCAGCTGGCCTGTTTTCAAGAGCCCTT			
11193	P	C	S	ATGACGTGGCAGACGTGGGAACAGATCTATGGY			
11193	P	T	S	CGCGCCGAGGATGGGAACAGATCTATGGGY			
11193	T	C	S	GCTTCCCATAGATCTGTTCCCACAGGGCTCTTGAAAACAGGCCAGCTGCCC			
11193	T	T	S	GCTTCCCATAGATCTGTTCCCATAGGGCTCTTGAAAACAGGCCAGCTGCCC			
				GTACAGCAGTTATAACTATAGGTGAGGCTGGAAAGATGGCTTCCCATAGATCTGTTCCCA[CT]AGGGCTCTTGAAAACAGGCCAGCTGCCCAGGGCATTTGGGGA			
11193	IS	[CT]		CTGAATGTCCACCTTATT	ctg22fin11	22	
11203	I		A	CCAGGCAGGCCAACAGATGTGCTAATGTCCA			
11203	P	C	A	ATGACGTGGCAGACCTCACAGGCCCAAGTY			
11203	P	T	A	CGCGCCGAGGTTCACAGGCCCAAGTY			
11203	T	C	A	ATTGACTTGGGCCTGTGAGGGACATTAGCACATCTGTTGGCCTGCCTGGCA			
11203	T	T	A	ATTGACTTGGGCCTGTGAAGGACATTAGCACATCTGTTGGCCTGCCTGGCA			
				CACCCTCAAATTGTGGGCAAGCTCTCACTGCCAGGCAGGCCAACAGATGTGCTAATGTCC[CT]TCACAGGCCCAAGTCAATGCTTCCAGCACAGCCATGCTGCTC			
11203	IS	[CT]		AGAGGATGAGGCAGGTCA	ctg22fin3	22	
11216	I		S	CTCTGGGGTGATGTCTGCACCACCAGTT			
11216	P	C	S	ATGACGTGGCAGACGAGAGCTTTAGATTCTGGAGY			
11216	P	T	S	CGCGCCGAGGAAGAGCTTTAGATTCTGGAGY			
11216	T	C	S	ATTGCTCCAGAATCTAAAGCTCTCACTGGTGGTGCAGACATCACCCCAGAGGC			
11216	T	T	S	ATTGCTCCAGAATCTAAAGCTCTTACTGGTGGTGCAGACATCACCCCAGAGGC			
				ATTTCCAGAGGCTGGGGCTCCCATTAGCGGTGTGGACATTGCTCCAGAATCTAAAGCTCT[CT]ACTGGTGGTGCAGACATCACCCCAGAGGCTGTTGCTCTCACT			
11216	IS	[CT]		GGCGGATTAGACATCATT	ctg15815	X	
11217	I		A	TGAGGTCGGATTTCCATTAGCCACATCCTTGCTTC			
11217	P	A	A	CGCGCCGAGGAGCTCCTTCCTCTGCY			
11217	P	T	A	ATGACGTGGCAGACTGCTCCTTCCTCTGCY			
11217	T	A	A	AACAGCAGAGGAAGGAGCTAAGCAAGGATGTGGCTAATGGAAATCCGACCTCAGT			
11217	T	T	A	AACAGCAGAGGAAGGAGCAAAGCAAGGATGTGGCTAATGGAAATCCGACCTCAGT			
				CACACTGGACTCCTGGGAAATCCCACTGAGGTCGGATTTCCATTAGCCACATCCTTGCTT[AT]GCTCCTTCCTCTGCTGTTACCCACTTCCCTCAATTCCTTACAAG			
11217	IS	[AT]		TTTTTCTCTTGAGAAC	ctg25099	7	
11219	I		A	GTGTAGTTAGCAAGGCTCTTCTTTATGTTGAATCTGTCCTTTTAGACTCTTATGC			
11219	P	T	A	CGCGCCGAGGTGTTTATACTGTCTGTGATTTGTY			
11219	P	G	A	ATGACGTGGCAGACGGTTTATACTGTCTGTGATTTGY			
11219	T	T	A	AGGGACAAATCACAGACAGTATAAACACATAAGAGTCTAAAAGGACAGATTCAACATAAAGAAGAGCCTTGCTAACTACACCA			
11219	T	G	A	AGGGACAAATCACAGACAGTATAAACCCATAAGAGTCTAAAAGGACAGATTCAACATAAAGAAGAGCCTTGCTAACTACACCA			

FIGURE 129B

				CCAGTGGTGTAGTTAGCAAGGCTCTTCTTTATGTTGAATCTGTCCTTTTAGACTCTTATG[TG]GTTTATACTGTCTGTGATTTGTCCCTACATCAATGTGTGTAATAG			
11219	IS	[TG]		AGTGAGTCAGTCATT		ctg25099	7
11221	I		A	GACATTGAATTTTCTTCTTCCTTTTTGGTGTGTTTTGGATTTTTA			
11221	P	T	A	CGCGCCGAGGTTGGTGTTCTGTTTTGGAY			
11221	P	C	A	ATGACGTGGCAGACCTGGTGTTCTGTTTTGGAY			
11221	T	T	A	ACCGTCCAAAACAGAACACCAAAAAAATCCAAAACACACCAAAAAGGAAGAAGAAAATTCAATGTCAT			
11221	T	C	A	ACCGTCCAAAACAGAACACCAGAAAAATCCAAAACACACCAAAAAGGAAGAAGAAAATTCAATGTCAT			
				ATAATCAATATTAGATGACATTGAATTTTCTTCTTCCTTTTTGGTGTGTTTTGGATTTTT[TC]TGGTGTTCTGTTTTGGACGGTTTTGAATTATCTAATTGTCCCGGAT			
11221	IS	[TC]		CATGATTGTCACTT			
11222	I		S	AGGCCGAGATCACCTCAGGCGCTCC			
11222	P	C	S	ATGACGTGGCAGACGCGGTGCAATCACAGY			
11222	P	A	S	CGCGCCGAGGTCGGTGCAATCACAGAY			
11222	T	C	S	GCGCTCTGTGATTGCACCGCGAGCGCCTGAGGTGATCTCGGCCTAC			
11222	T	A	S	GCGCTCTGTGATTGCACCGAGAGCGCCTGAGGTGATCTCGGCCTAC			
				CTGAGCGGAGGGATCTCAGGGCGAGCTCGAGCGGCGACGGCGCGCTCTGTGATTGCACCG[CA]GAGCGCCTGAGGTGATCTCGGCCTACATCGCGTCAGCGG			
11222	IS	[CA]		GGCCTTGGGCGTGAGCACCGC		ctg19247	7
11225	I		A	CCAGCTCTCCAAGGAGCTGGCGGT			
11225	P	G	A	ATGACGTGGCAGACGAAACCGCTGCAATCAY			
11225	P	A	A	CGCGCCGAGGAAAACCGCTGCAATCAY			
11225	T	G	A	GCTCTGATTGCAGCGGTTTCCCGCCAGCTCCTTGGAGAGCTGGCA			
11225	T	A	A	GCTCTGATTGCAGCGGTTTTCCGCCAGCTCCTTGGAGAGCTGGCA			
				GCCATTCACAGCTCCTGCTGTGGGGCTGGGTCATCTGCCAGCTCTCCAAGGAGCTGGCGG[GA]AAACCGCTGCAATCAGAGCGAACCCAGGGCCCGGGTGAGC			
11225	IS	[GA]		CCGCCTCGGCACAGCACTCC		MULTIPLE	MULTIPLE
11227	I		A	GCCCGGGTGAGCCCGCCTCT			
11227	P	G	A	ATGACGTGGCAGACGGCACAGCACTCCAY			
11227	P	C	A	CGCGCCGAGGCGCACAGCACTCCAY			
11227	T	G	A	CAGCTGGAGTGCTGTGCCGAGGCGGGCTCACCCGGGCCC			
11227	T	C	A	CAGCTGGAGTGCTGTGCGGAGGCGGGCTCACCCGGGCCC			
				AGGAGCTGGCGGGAAACCGCTGCAATCAGAGCGAACCCAGGGCCCGGGTGAGCCCGCCTC[GC]GCACAGCACTCCAGCTGCCCCAGTGCCTTTTGGGGACAC			
11227	IS	[GC]		ATCTGCTTTGCCAGGCAGGG		MULTIPLE	MULTIPLE
11232	I		S	TGGTGACGTGTTGCTCTATGCTTGGGTGAGTAA			
11232	P	G	S	ATGACGTGGCAGACCGCTGGTGACATGTTGY			
11232	P	A	S	CGCGCCGAGGTGCTGGTGACATGTTGY			
11232	T	G	S	ACAGCAACATGTCACCAGCGTACTCACCCAAGCATAGAGCAACACGTCACCAGT			
11232	T	A	S	ACAGCAACATGTCACCAGCATACTCACCCAAGCATAGAGCAACACGTCACCAGT			
				AAGCATACAGCAACGTGTCACCAGCGTACTCACCCAAGAATACAGCAACATGTCACCAGC[GA]TACTCACCCAAGCATAGAGCAACACGTCACCAGTGTACACGCC			
11232	IS	[GA]		CAAGAATACAGCAACAC		ctg832	11
11234	I		S	CACTGGTGACATGTTGCTGTATCCTTGGGTGAGTAA			
11234	P	G	S	ATGACGTGGCAGACCGCTGGTGACATGTTGY			
11234	P	A	S	CGCGCCGAGGTGCTGGTGACATGTTGY			
11234	T	G	S	ACAGCAACATGTCACCAGCGTACTCACCCAAGGATACAGCAACATGTCACCAGTGTA			
11234	T	A	S	ACAGCAACATGTCACCAGCATACTCACCCAAGGATACAGCAACATGTCACCAGTGTA			
				AAGAATACAGCAACACGTCACCAGTGTACTCACCCAAGAATACAGCAACATGTCACCAGC[GA]TACTCACCCAAGGATACAGCAACATGTCACCAGTGTACTCACC			
11234	IS	[GA]		CAAGAATATAGCATCAT		ctg832	11
11236	I		S	TGTTGACCTGCAAGGCAGAGGAAGAAATGTTTTGAAACATAA			
11236	P	A	S	CGCGCCGAGGTTAATATGAGGGACAAAACACCY			
11236	P	G	S	ATGACGTGGCAGACCTAATATGAGGGACAAAACACY			
11236	T	A	S	TCTTGGTGTTTTGTCCCTCATATTAATATGTTTCAAAACATTTCTTCCTCTGCCTTGCAGGTCAACATG			
11236	T	G	S	TCTTGGTGTTTTGTCCCTCATATTAGTATGTTTCAAAACATTTCTTCCTCTGCCTTGCAGGTCAACATG			
				CCATCACCTGCAGCATGAGGTGCAGCTTGTGTTGGTCTTGGTGTTTTGTCCCTCATATTA[AG]TATGTTTCAAAACATTTCTTCCTCTGCCTTGCAGGTCAACATGG			
11236	IS	[AG]		CTGAACAGGAGCCTCG		ctg832	11
11239	I		A	GTCACAGAGGGTGCGCCCCTTT			
11239	P	G	A	ATGACGTGGCAGACGTGAAATTATTCGTTATAATTTTGTGGY			
11239	P	C	A	CGCGCCGAGGCTGAAATTATTCGTTATAATTTTGTGGY			
11239	T	G	A	CATCCCACAAAATTATAACGAATAATTTCACAAGGGGCGCACCCTCTGTGACAT			
11239	T	C	A	CATCCCACAAAATTATAACGAATAATTTCAGAAGGGGCGCACCCTCTGTGACAT			
				GATCTTGTCGTCATATTCTAGGGACATGTTACTTTTAATGTCACAGAGGGTGCGCCCCTT[GC]TGAAATTATTCGTTATAATTTTGTGGGATGTTACCTCTAATGTC			
11239	IS	[GC]		ACACGGCGTGTACACA		ctg45	8
11251	I		A	GCTCTTCTTTCTGGTCGTTTTGACTTTTTTTCTCCTTTCCTGG			
11251	P	G	A	ATGACGTGGCAGACGTGATCTGCACTTCACTGY			
11251	P	A	A	CGCGCCGAGGATGATCTGCACTTCACTGY			
11251	T	G	A	ATTACAGTGAAGTGCAGATCACCCAGGAAAGGAGAAAAAAAGTCAAAACGACCAGAAAGAAGAGCCA			
11251	T	A	A	ATTACAGTGAAGTGCAGATCATCCAGGAAAGGAGAAAAAAAGTCAAAACGACCAGAAAGAAGAGCCA			
				TTATGGTATGTAGTGTGGCTCTTCTTTCTGGTCGTTTTGACTTTTTTTCTCCTTTCCTGG[GA]TGATCTGCACTTCACTGTAATATTCTAGGAGTGGATTTCTCAATT			
11251	IS	[GA]		TTTATCATTCCTTGG		MULTIPLE	MULTIPLE
11263	I		A	TGAACTGACAGCTGGCAGCCAGATCCCT			
11263	P	G	A	ATGACGTGGCAGACGCCCACACATGTGTTTY			
11263	P	A	A	CGCGCCGAGGACCCACACATGTGTTTTY			
11263	T	G	A	AAACAAAACACATGTGTGGGCGGGATCTGGCTGCCAGCTGTCAGTTCACA			
11263	T	A	A	AAACAAAACACATGTGTGGGTGGGATCTGGCTGCCAGCTGTCAGTTCACA			
				GCTGCTCGCAGAGGAACTTTAAAAGGCAGGCTGTGAACTGACAGCTGGCAGCCAGATCCC[GA]CCCACACATGTGTTTTGTTTGGCTTGCGAAGTGTTTTTAAAAT			
11263	IS	[GA]		TTTAAGCCAACAGTAAA		ctg16291	9
11271	I		A	ACACGAGTAAGACGTGCTTTATTGTACATATTAGAAAGTAAGTGATGAGTATCCAAT			
11271	P	G	A	ATGACGTGGCAGACGTTAAGCAATGCACATAACAGY			
11271	P	A	A	CGCGCCGAGGATTAAGCAATGCACATAACAGY			
11271	T	G	A	TTAGCTGTTATGTGCATTGCTTAACTTGGATACTCATCACTTACTTTCTAATATGTACAATAAAGCACGTCTTACTCGTGTGT			
11271	T	A	A	TTAGCTGTTATGTGCATTGCTTAATTTGGATACTCATCACTTACTTTCTAATATGTACAATAAAGCACGTCTTACTCGTGTGT			
				ACACACACGAGTAAGACGTGCTTTATTGTACATATTAGAAAGTAAGTGATGAGTATCCAA[GA]TTAAGCAATGCACATAACAGCTAAATAAATAAAAGTTGATAGGCT			
11271	IS	[GA]		GAATATTCAATACTG		ctg25099	7
11276	I		S	CTCTCAGGGATGAGGTCACATGAAGCAAGTTCTCAAAAC			
11276	P	C	S	ATGACGTGGCAGACGACTGTTCTATAAACCAAAACCY			
11276	P	A	S	CGCGCCGAGGTACTGTTCTATAAACCAAAACCAY			
11276	T	C	S	ATCTTGGTTTTGGTTTATAGAACAGTCTTTTGAGAACTTGCTTCATGTGACCTCATCCCTGAGAGAC			
11276	T	A	S	ATCTTGGTTTTGGTTTATAGAACAGTATTTTGAGAACTTGCTTCATGTGACCTCATCCCTGAGAGAC			
				CATCTATTTAACAACTGTCCAGACTTGATAAGCTATCTTGGTTTTGGTTTATAGAACAGT[CA]TTTTGAGAACTTGCTTCATGTGACCTCATCCCTGAGAGACTGAGC			
11276	IS	[CA]		CACTCTCAATGTAAA		ctg13740	5
11281	I		A	GGGCTGAGGCACGGGCCCCT			
11281	P	C	A	ATGACGTGGCAGACCCACGTGTGCCGGY			
11281	P	A	A	CGCGCCGAGGACACGTGTGCCGGY			
11281	T	C	A	TGGGCCGGCACACGTGGGGGGCCCGTGCCTCAGCCCAC			
11281	T	A	A	TGGGCCGGCACACGTGTGGGGCCCGTGCCTCAGCCCAC			
				CCTCAGCGGCGGCCTTGTGTTTCAGAGCAGCCGAGTATCGTGGGCTGAGGCACGGGCCCC[CA]CACGTGTGCCGGCCCATCACCGTGGCCTTGCTGATGCGCC			
11281	IS	[CA]		TCCTGCAGCAGCTGACGGGC			
11283	I		S	CAAAGGACTGCGGGGCCCTCTTGGT			
11283	P	G	S	ATGACGTGGCAGACCGTCAAGGTCCGCTY			
11283	P	T	S	CGCGCCGAGGAGTCAAGGTCCGCTCY			
11283	T	G	S	CATGGAGCGGACCTTGACGCCAAGAGGGCCCCGCAGTCCTTTGCC			
11283	T	T	S	CATGGAGCGGACCTTGACTCCAAGAGGGCCCCGCAGTCCTTTGCC			

FIGURE 129B

				CTCTCGAGTCCTCCCATGTGGCCAGCTGTCCCACGGTGTTCCCATGGAGCGGACCTTGAC[GT]CCAAGAGGGCCCCGCAGTCCTTTGCCCTTTGCAGCATCTCA			
11283	tS	[GT]		GAATTCTGTCGTTGTGAGT	ctg16114	X	
11285	I		S	TGTGGCCAAGGCCTGTACCAAGTCCTGT			
11285	P	C	S	ATGACGTGGCAGACGATATGATGGACCTCCAAAGY			
11285	P	T	S	CGCGCCGAGGAATATGATGGACCTCCAAAGY			
11285	T	C	S	ATCACTTTGGAGGTCCATCATATCCAGGACTTGGTACAGGCCTTGGCCACAGT			
11285	T	T	S	ATCACTTTGGAGGTCCATCATATTCAGGACTTGGTACAGGCCTTGGCCACAGT			
				TGTATTGCACACAACATGAGCCACTAAACTAACACTGATCACTTTGGAGGTCCATCATAT[CT]CAGGACTTGGTACAGGCCTTGGCCACAGTGTAAGCCATCATTCT			
11285	tS	[CT]		GCCTTCTGGTGCTGAC	ctg832	11	
11286	I		S	GAGGGCAGGCATCAGTATAAAAAGCTCCCCAGT			
11286	P	T	S	CGCGCCGAGGATGACTCTGTGCAGCCY			
11286	P	C	S	ATGACGTGGCAGACGTGACTCTGTGCAGCY			
11286	T	T	S	CCTCGGCTGCACAGAGTCATCTGGGGAGCTTTTTATACTGATGCCTGCCCTCCT			
11286	T	C	S	CCTCGGCTGCACAGAGTCACCTGGGGAGCTTTTTATACTGATGCCTGCCCTCCT			
				AGGCTAGAAGGGCCAGAGGCGCCAGGAGCAGCAGCTCTCAACCTCGGCTGCACAGAGTCA[TC]CTGGGGAGCTTTTTATACTGATGCCTGCCCTCCTCCCAAGA			
11286	tS	[TC]		GATTCACCTTCAATTGGCC	ctg17004	X	
11287	I		A	GCTTTTTATACTGATGCCTGCCCTCCTCCCAAGT			
11287	P	A	A	CGCGCCGAGGAGATTCACCTTCAATTGGCY			
11287	P	G	A	ATGACGTGGCAGACGGATTCACCTTCAATTGGCY			
11287	T	A	A	CCAGGCCAATTGAAGGTGAATCTCTTGGAGGAGGGCAGGCATCAGTATAAAAAGCTC			
11287	T	G	A	CCAGGCCAATTGAAGGTGAATCCCTTGGGAGGAGGGCAGGCATCAGTATAAAAAGCTC			
				CCTCGGCTGCACAGAGTCATCTGGGGAGCTTTTTATACTGATGCCTGCCCTCCTCCCAAG[AG]GATTCACCTTCAATTGGCCTGGCCTGAGTCCTGCAAAGAGGA			
11287	tS	[AG]		ACTTTGAAAGGATCCCAG	ctg17004	X	
11290	I		A	CAGAGCTATGAGATCATATCATTGAGAATTTTAGAGAATATGATAAAAATTGATCTTGTAA			
11290	P	T	A	CGCGCCGAGGTTGGCCATCACATGAGAY			
11290	P	C	A	ATGACGTGGCAGACCTGGCCATCACATGAGY			
11290	T	T	A	AAGCTCTCATGTGATGGCCAATACAAGATCAATTTTTATCATATTCTCTAAAATTCTCAATGATATGATCTCATAGCTCTG			
11290	T	C	A	AAGCTCTCATGTGATGGCCAGTACAAGATCAATTTTTATCATATTCTCTAAAATTCTCAATGATATGATCTCATAGCTCTG			
				CAGAGCTATGAGATCATATCATTGAGAATTTTAGAGAATATGATAAAAATTGATCTTGTA[TC]TGGCCATCACATGAGAGCTTGTTGGAAAAGAATCATGGGTCTCAA			
11290	tS	[TC]		GATCAAATGAATTGG	ctg15508	17	
11300	I		A	GCCTCATGCAACATCGAAAAGTTCACACTGGAGAAAAT			
11300	P	A	A	CGCGCCGAGGACCTTTTAAGTGCAATGAATGY			
11300	P	G	A	ATGACGTGGCAGACGCCTTTTAAGTGCAATGAATY			
11300	T	A	A	CCCACATTCATTGCACTTAAAAGGTTTTCTCCAGTGTGAACTTTTCGATGTTGCATGAGGCTT			
11300	T	G	A	CCCACATTCATTGCACTTAAAAGGCTTTTCTCCAGTGTGAACTTTTCGATGTTGCATGAGGCTT			
				GAAATTTTTTAGCCAAAGCTCAAGCCTCATGCAACATCGAAAAGTTCACACTGGAGAAAA[AG]CCTTTTAAGTGCAATGAATGTGGGAGATTCTTTAGTGAGAATTC			
11300	tS	[AG]		CAGCCTTGTTAAACAT	ctg14243	19	
11313	I		S	GCAGTGACCTTTGCTGCCAAACCCATCAGTTTTAA			
11313	P	A	S	CGCGCCGAGGTGGTACCTGCCTTCGY			
11313	P	G	S	ATGACGTGGCAGACCGGTACCTGCCTTCGY			
11313	T	A	S	AGCACGAAGGCAGGTACCATAAAACTGATGGGTTTGGCAGCAAAGGTCACTGCTC			
11313	T	G	S	AGCACGAAGGCAGGTACCGTAAAACTGATGGGTTTGGCAGCAAAGGTCACTGCTC			
				AGTTTCACTGACGTGGGGAGGTTTGGTTGAGTTTGCTAACAGAGCACGAAGGCAGGTACC[AG]TAAAACTGATGGGTTTGGCAGCAAAGGTCACTGCTCTCTTTC			
11313	tS	[AG]		CTTTTTAGCAACTGCACA	ctg17207	19	
11324	I		A	GTCCTTGTGAGTGACGTGGGGTCCCTGT			
11324	P	G	A	ATGACGTGGCAGACGAGTAAGGTTGGATGGCY			
11324	P	C	A	CGCGCCGAGGCAGTAAGGTTGGATGGCY			
11324	T	G	A	AGTGGCCATCCAACCTTACTCCAGGGACCCCACGTCACTCACAAGGACCT			
11324	T	C	A	AGTGGCCATCCAACCTTACTGCAGGGACCCCACGTCACTCACAAGGACCT			
				AATCGTGTTGAAGGTTGCAGAGCAACACCGCAGGTCCTTGTGAGTGACGTGGGGTCCCTG[GC]AGTAAGGTTGGATGGCCACTCTAGCGGAAGATAACTGAAGG			
11324	tS	[GC]		TGAAGGGTGGGCTCTGGCT	ctg16031	17	
11329	I		A	GGAGGGACCCCCCTCAGTGCCTT			
11329	P	A	A	CGCGCCGAGGATGGCACAGGCAGAY			
11329	P	C	A	ATGACGTGGCAGACCTGGCACAGGCAGAY			
11329	T	A	A	TGCCTCTGCCTGTGCCATAGGCACTGAGGGGGGTCCCTCCTT			
11329	T	C	A	TGCCTCTGCCTGTGCCAGAGGCACTGAGGGGGTCCCTCCTT			
				TGTAACACCATTACTGTTGGAATGCTAGCTTTCCCCAAGGAGGGACCCCCCTCAGTGCCT[AC]TGGCACAGGCAGAGGCACCAGGCTCTTTGTTCAGATGTGGTC			
11329	tS	[AC]		TAAGCTGGAAATTGAAAG	ctg22fin4	22	
11333	I		S	GGAAACTTGATATTACTATAAAAAATTGAAACCCAAAATCCCTTGACATACAA			
11333	P	G	S	ATGACGTGGCAGACCTGAGGGTAACAGTAACAGY			
11333	P	A	S	CGCGCCGAGGTTGAGGGTAACAGTAACAGY			
11333	T	G	S	TTTGCTGTTACTGTTACCCTCAGTGTATGTCAAGGGATTTTGGGTTTCAATTTTTTATAGTAATATCAAGTTTCCTT			
11333	T	A	S	TTTGCTGTTACTGTTACCCTCAATGTATGTCAAGGGATTTTGGGTTTCAATTTTTTATAGTAATATCAAGTTTCCTT			
				TCTGAGCAGATGGAGGTCAAGAATTTAATTGCCTTTTATTTGCTGTTACTGTTACCCTCA[GA]TGTATGTCAAGGGATTTTGGGTTTCAATTTTTTATAGTAATATCA			
11333	tS	[GA]		AGTTTCCTTTAAAAT	ctg19247	7	
11353	I		S	TCACCTTTGGCGCCGAAGCCCCT			
11353	P	T	S	CGCGCCGAGGATGGGCAGCTTGGGY			
11353	P	C	S	ATGACGTGGCAGACGTGGGCAGCTTGGY			
11353	T	T	S	TTTCCCCAAGCTGCCCATGGGGCTTCGGCGCCAAAGGTGACC			
11353	T	C	S	TTTCCCCAAGCTGCCCACGGGGCTTCGGCGCCAAAGGTGACC			
				TTGTGTCGTTTGTGAAAGTTCTTAACCTGCCCAAAAACCCCCTTTTCCCCAAGCTGCCCA[TC]GGGGCTTCGGCGCCAAAGGTGACCCGCGCCAACCTCCCTCCC			
11353	tS	[TC]		CCCCAGTGCCTATGACGG			
11356	I		A	CCCTCATCGTGCCCCAGGTTCAGAATCATT			
11356	P	A	A	CGCGCCGAGGAGTAGAGGGAAGGCGY			
11356	P	G	A	ATGACGTGGCAGACGGTAGAGGGAAGGCGY			
11356	T	A	A	GCACCGCCTTCCCTCTACTATGATTCTGAACCTGGGGCACGATGAGGGCA			
11356	T	G	A	GCACCGCCTTCCCTCTACCATGATTCTGAACCTGGGGCACGATGAGGGCA			
				TTCCCCACAGGGAAATGACCGCATGCTGGTGCCCTCATCGTGCCCCAGGTTCAGAATCAT[AG]GTAGAGGGAAGGCGGTGCCTCTCTCCATGCAGAGCCTGCTT			
11356	tS	[AG]		CCCCTCCTGTCCACCAATA	ctg17403	17	
11363	I		A	GCTCTTTTCATTGCCTTCTGGGGATAGGAAGAGGAAAGATAAA			
11363	P	C	A	ATGACGTGGCAGACCGCTGAAGGCAGTTCY			
11363	P	T	A	CGCGCCGAGGTGCTGAAGGCAGTTCCY			
11363	T	C	A	CCAGGGAACTGCCTTCAGCGTTATCTTTCCTCTTCCTATCCCCAGAAGGCAATGAAAAGAGCTG			
11363	T	T	A	CCAGGGAACTGCCTTCAGCATTATCTTTCCTCTTCCTATCCCCAGAAGGCAATGAAAAGAGCTG			
				GCTTGTGCCTCATAGCCAGCTCTTTTCATTGCCTTCTGGGGATAGGAAGAGGAAAGATAA[CT]GCTGAAGGCAGTTCCCTGGCAATGCTGGGAGGTTGGAATAGA			
11363	tS	[CT]		CCAGAGCGTCCCACACCT	ctg15944	11	
11364	I		S	GCTTGCTTTTGGGACTATTGCAGTAATCCTCCCCA			
11364	P	A	S	CGCGCCGAGGTGAAGAGGTGCTCGACY			
11364	P	G	S	ATGACGTGGCAGACCGAAGAGGTGCTCGAY			
11364	T	A	S	GTGAGTCGAGCACCTCTTCAGGGGAGGATTACTGCAATAGTCCCAAAAGCAAGCTG			
11364	T	G	S	GTGAGTCGAGCACCTCTTCGGGGGAGGATTACTGCAATAGTCCCAAAAGCAAGCTG			
				CCCGCCATCCCTGGGCCCTCAGTATCACCCGAGGAGCAACAGTGAGTCGAGCACCTCTTC[AG]GGGGAGGATTACTGCAATAGTCCCAAAAGCAAGCTGCCTCC			
11364	tS	[AG]		ATGGAACCCCCAGGTGTTT	ctg15944	11	CD6
11365	I		A	GGGCCCAGGACTTCTCAGAGCCTCTT			
11365	P	G	A	ATGACGTGGCAGACGCAGCACTAATGCCTGY			
11365	P	A	A	CGCGCCGAGGACAGCACTAATGCCTGTY			
11365	T	G	A	AATCACAGGCATTAGTGCTGCAGAGGCTCTGAGAAGTCCTGGGCCCCA			
11365	T	A	A	AATCACAGGCATTAGTGCTGTAGAGGCTCTGAGAAGTCCTGGGCCCCA			

FIGURE 129B

				AAGGTTTGGGGAGAGCTGCCGAGGAAAGGGAGATGGGGCCCAGGACTTCTCAGAGCCTCT[GA]CAGCACTAATGCCTGTGATTAAACCCCAAGCTGGCGAGTAA			
11365	IS	[GA]		TTCCGCCACCTTTCCAAAA	ctg832	11	
11369	I		A	GCTGGAGGGGTCCGTTCTCCCTCCA			
11369	P	C	A	ATGACGTGGCAGACCAGGGTGAATTCCTGCY			
11369	P	T	A	CGCGCCGAGGTAGGGTGAATTCCTGCCY			
11369	T	C	M	ACAAGGCAGGAATTCACCCTGGGAGGGAGAACGGACCCCTCCAGCTC			
11369	T	T	A	ACAAGGCAGGAATTCACCCTAGGAGGGAGAACGGACCCCTCCAGCTC			
				TGTTCCCAGGTTCCTGCCTCTGTGCCTGGGTCCTGAGCTGGAGGGGTCCGTTCTCCCTCC[CT]AGGGTGAATTCCTGCCTTGTTTCTCCCGAGTGAGTTAGTGTG			
11369	IS	[CT]		ACGCGTTGGCCCGTGTGT	ctg832	11	
11371	I		S	TGATAACTGGCACTTATCATGTGCCAGTCATCATAAAAAACACGTTAA			
11371	P	G	S	ATGACGTGGCAGACCATAGCTGTCCATTTTATAAATGAY			
11371	P	A	S	CGCGCCGAGGTATAGCTGTCCATTTTATAAATGAGY			
11371	T	G	S	TTTCCTCATTTATAAAATGGACAGCTATGTAACGTGTTTTTTATGATGACTGGCACATGATAAGTGCCAGTTATCATA			
11371	T	A	S	TTTCCTCATTTATAAAATGGACAGCTATATAACGTGTTTTTTATGATGACTGGCACATGATAAGTGCCAGTTATCATA			
				AATCCTGGGCAAGTTACCCCTCTGAGCCTCAGTTTCCTCATTTATAAAATGGACAGCTAT[GA]TAACGTGTTTTTTATGATGACTGGCACATGATAAGTGCCAGTTA			
11371	IS	[GA]		TCATAATTATATTAAG	ctg25002	17	
11372	I		A	GCCACCACATGCAGAACCCCCCACT			
11372	P	G	A	ATGACGTGGCAGACGGTGTCCAGGGCCY			
11372	P	A	A	CGCGCCGAGGAGTGTCCAGGGCCTY			
11372	T	G	A	AGGAAGGCCCTGGACACCGTGGGGGGTTCTGCATGTGGTGGCCG			
11372	T	A	A	AGGAAGGCCCTGGACACTGTGGGGGGTTCTGCATGTGGTGGCCG			
				GGGGGTTGGTGGCAGCATAGACGCATGGCAGCAGCGGCCACCACATGCAGAACCCCCCAC[GA]GTGTCCAGGGCCTTCCTGAGCTGCTTAGTGAATCCTGTACC			
11372	IS	[GA]		AGCCTGAGAGGAGCACAGT	ctg25002	17	
11373	I		A	TGGGTGCACGGGGGCTGGGA			
11373	P	C	A	ATGACGTGGCAGACCGGAGGAAGCAGGGY			
11373	P	T	A	CGCGCCGAGGTGGAGGAAGCAGGGY			
11373	T	C	A	ATGACCCTGCTTCCTCCGCCCAGCCCCCGTGCACCCATA			
11373	T	T	A	ATGACCCTGCTTCCTCCACCCAGCCCCCGTGCACCCATA			
				ATCCCAGGGCCCTGTGGCCACAGTCTGAGGCCCAGCGGCTATGGGTGCACGGGGGCTGGG[CT]GGAGGAAGCAGGGTCATGTGCCTGACCAGCGCCCCCTCC			
11373	IS	[CT]		CTCTGTTGCAGCTTCACGTGG	ctg25002	17	
11385	I		S	GCCTCCTCCATCAGACTGGGGGCCT			
11385	P	G	S	CGCGCCGAGGCTTTAAGAGCTCCCATCAGY			
11385	P	C	S	ATGACGTGGCAGACGTTTAAGAGCTCCCATCAGY			
11385	T	G	S	CAGTCTGATGGGAGCTCTTAAAGGGCCCCCAGTCTGATGGAGGAGGCCC			
11385	T	C	S	CAGTCTGATGGGAGCTCTTAAACGGCCCCCAGTCTGATGGAGGAGGCCC			
				CCAGTTTAATGGGAGTGTTCAAATCTCTTTGAGGTCTCCAGTCTGATGGGAGCTCTTAAA[GC]GGCCCCCAGTCTGATGGAGGAGGCCCTTTAATGGCCCCCAAG			
11385	IS	[GC]		TCTGAGGGTGGAGGCCCT	ctg17207	19	
11388	I		A	CTCACATCTGCCACCCTCCCTCCCTGA			
11388	P	T	A	CGCGCCGAGGTAGGCCAGCTGACTATGY			
11388	P	C	A	ATGACGTGGCAGACCAGGCCAGCTGACTAY			
11388	T	T	A	CGATCATAGTCAGCTGGCCTACAGGGAGGGAGGGTGGCAGATGTGAGTG			
11388	T	C	A	CGATCATAGTCAGCTGGCCTGCAGGGAGGGAGGGTGGCAGATGTGAGTG			
				CTGGGTAATGGTTGTTCAGACTCCCCCGGCCCCACTCACATCTGCCACCCTCCCTCCCTG[TC]AGGCCAGCTGACTATGATCGTGGGGCAGGTGGGCTGCGGCA			
11388	IS	[TC]		AGTCCTCGCTCCTTCTAGC	ctg2845	11	
11389	I		S	ACTGTGGATAGGGACCCAATCATTGGGTCTGGT			
11389	P	T	S	CGCGCCGAGGAATAAGTAGGCGGCAAGY			
11389	P	G	S	ATGACGTGGCAGACCATAAGTAGGCGGCAAGY			
11389	T	T	S	TGCACTTGCCGCCTACTTATTCCAGACCCAATGATTGGGTCCCTATCCACAGTTT			
11389	T	G	S	TGCACTTGCCGCCTACTTATGCCAGACCCAATGATTGGGTCCCTATCCACAGTTT			
				CACTGATTCCATCTATTCTTTTTTTTCTTTTTCCTCAAATGCACTTGCCGCCTACTTAT[TG]CCAGACCCAATGATTGGGTCCCTATCCACAGTTTGGAAAACACTA			
11389	IS	[TG]		TAAGAAATGATTGTG			
11486	I		A	GCCAAGGTGGTGAAATCCCGTCTCTGCTAAAAT			
11486	P	A	A	CGCGCCGAGGATACGAAAATTAGCTGAGTGTY			
11486	P	G	A	ATGACGTGGCAGACGTACGAAAATTAGCTGAGTGTY			
11486	T	A	A	CACAACACTCAGCTAATTTTCGTATTTTTAGCAGAGACGGGATTTCACCACCTTGGCCA			
11486	T	G	A	CACAACACTCAGCTAATTTTCGTACTTTTAGCAGAGACGGGATTTCACCACCTTGGCCA			
				ACAAGATCAGGAGTTCGAGGCCAGCCTGGCCAAGGTGGTGAAATCCCGTCTCTGCTAAAA[AG]TACGAAAATTAGCTGAGTGTTGTGCCGGCTGCCTGTAATCCC			
11486	IS	[AG]		AGCTACTCGAGAGGCTGA	ctg3461	17	
11492	I		S	GGAAAAGATGTGTCAGTATCTTTATTTCAGGGACGAGTCATAAACCAT			
11492	P	T	S	CGCGCCGAGGAGCAGATTTCTACCTCAGAY			
11492	P	C	S	ATGACGTGGCAGACGGCAGATTTCTACCTCAGY			
11492	T	T	S	CATTTCTGAGGTAGAAATCTGCTTGGTTTATGACTCGTCCCTGAAATAAAGATACTGACACATCTTTTCCTG			
11492	T	C	S	CATTTCTGAGGTAGAAATCTGCCTGGTTTATGACTCGTCCCTGAAATAAAGATACTGACACATCTTTTCCTG			
				CATTTTAAAGATTCAGCGTTTTCTCCTTTGAGAAGGGTCATTTCTGAGGTAGAAATCTGC[TC]TGGTTTATGACTCGTCCCTGAAATAAAGATACTGACACATCTTTT			
11492	IS	[TC]		CCTGATAGAAATCAG	ctg15140	12	
11497	I		A	CTGCTTCAGCTACACACAAGTTTCCCACACACACT			
11497	P	G	A	ATGACGTGGCAGACGGCACCCATTCGTGY			
11497	P	A	A	CGCGCCGAGGAGCACCCATTCGTGAY			
11497	T	G	A	GGAGTCACGAATGGGTGCCGTGTGTGTGGGAAACTTGTGTGTAGCTGAAGCAGAG			
11497	T	A	A	GGAGTCACGAATGGGTGCTGTGTGTGTGGGAAACTTGTGTGTAGCTGAAGCAGAG			
				GGTTGTGACATCTCTCCATGCACTCTCTGCTTCAGCTACACACAAGTTTCCCACACACAC[GA]GCACCCATTCGTGACTCCAAGCCTTTGCCCAGTCTGTGCCTTC			
11497	IS	[GA]		AGCCTGCTCTGCCCTTT	ctg15944	11	
11501	I		A	ACAGCAGCCATACCGGGGACATGGAC			
11501	P	T	A	CGCGCCGAGGTTTCAAATCTGCAAGCCCY			
11501	P	G	A	ATGACGTGGCAGACGTTCAAATCTGCAAGCCY			
11501	T	T	A	GGAAGGGCTTGCAGATTTGAAATCCATGTCCCCGGTATGGCTGCTGTCA			
11501	T	G	A	GGAAGGGCTTGCAGATTTGAACTCCATGTCCCCGGTATGGCTGCTGTCA			
				ACGTTGCTGGTGTGTGGGCTGCTTCTTGGAGAATGACAGCAGCCATACCGGGGACATGGA[TG]TTCAAATCTGCAAGCCCTTCCCAACTGAGTACGTCCCAGCAA			
11501	IS	[TG]		AGGGCCCTCGACCCCATC	ctg15944	11	
11504	I		A	GGCCAGTACTCCCTGGTCCTGAGAACACTTA			
11504	P	T	A	CGCGCCGAGGTGGTGCCTCCTCACY			
11504	P	C	A	ATGACGTGGCAGACCGGTGCCTCCTCACY			
11504	T	T	A	CCAAGTGAGGAGGCACCAAAGTGTTCTCAGGACCAGGGAGTACTGGCCTC			
11504	T	C	A	CCAAGTGAGGAGGCACCGAAGTGTTCTCAGGACCAGGGAGTACTGGCCTC			
				CAGCTCCTCCTTATTCTGGGCCAACTCCGAGGCCAGTACTCCCTGGTCCTGAGAACACTT[TC]GGTGCCTCCTCACTTGGCTTCGGCTGACATCGTGGGGATTCA			
11504	IS	[TC]		GGACTGTACTCTGGCTGT	ctg15944	11	MGC2574
11508	I		A	TGACTCCAAACATACACAAAGAATAGCTACTTTTGTCCTTTTTA			
11508	P	T	A	CGCGCCGAGGTGTTCTGACTTCCTTAATCTTAAY			
11508	P	C	A	ATGACGTGGCAGACCGTTCTGACTTCCTTAATCTTY			
11508	T	T	A	ACGTTTAAGATTAAGGAAGTCAGAACAAAAAAGGACAAAAGTAGCTATTCTTTGTGTATGTTTGGAGTCAAA			
11508	T	C	A	ACGTTTAAGATTAAGGAAGTCAGAACGAAAAAGGACAAAAGTAGCTATTCTTTGTGTATGTTTGGAGTCAAA			
				AACTGGTATGATTTCTTTGACTCCAAACATACACAAAGAATAGCTACTTTTGTCCTTTTT[TC]GTTCTGACTTCCTTAATCTTAAACGTTGCCAGATACATTGTGACCA			
11508	IS	[TC]		CCATGCTAAAAAAG	ctg15064	7	
11517	I		A	GGCTAAAAGAAAAGCATAAAGCTGTTATAACAAATTCAAACGTCTAATTAT			
11517	P	C	A	CGCGCCGAGGCTCTATAATTTAGAAGCTAACCTAACY			
11517	P	G	A	ATGACGTGGCAGACGTCTATAATTTAGAAGCTAACCTAACY			
11517	T	C	A	AAATGTTAGGTTAGCTTCTAAATTATAGAGTAATTAGACGTTTGAATTTGTTATAACAGCTTTATGCTTTTCTTTTAGCCAT			
11517	T	G	A	AAATGTTAGGTTAGCTTCTAAATTATAGACTAATTAGACGTTTGAATTTGTTATAACAGCTTTATGCTTTTCTTTTAGCCAT			

FIGURE 129B

				GACAAGTAATGGCTAAAAGAAAAGCATAAAGCTGTTATAACAAATTCAAACGTCTAATTA[CG]TCTATAATTTAGAAGCTAACCTAACATTTGGTTAAGCAGTCAGAG			
11517	IS	[CG]		AAAGCCTCTTGTAGT	ctg15064	7	
11531	I		A	TGCGGCGGCCCGCAACAGAA			
11531	P	T	A	CGCGCCGAGGTGGGATCCGGAAGATGY			
11531	P	C	A	ATGACGTGGCAGACCGGGATCCGGAAGATY			
11531	T	T	A	TTACCATCTTCCGGATCCCATCTGTTGCGGGCCGCCGCAAG			
11531	T	C	A	TTACCATCTTCCGGATCCCGTCTGTTGCGGGCCGCCGCAAG			
				GGAGACCACGATCAGGTGGGAGGAGCAGGTGGAGAAGGCCTTGCGGCGGCCCGCAACAGA[TC]GGGATCCGGAAGATGGTAACGAGGATACGCCCGTAGGAG			
11531	IS	[TC]		CCCAGGATGAGGCCAAAGGGG	ctg15907	6	OR10C1
11533	I		S	GGGGCTGGGCCACACCCCTTTT			
11533	P	G	S	ATGACGTGGCAGACCATCTTCTCTTTGCCCTTY			
11533	P	T	S	CGCGCCGAGGAATCTTCTCTTTGCCCTTCY			
11533	T	G	S	CGCAGAAGGGCAAAGAGAAGATGAAAGGGGTGTGGCCCAGCCCCAC			
11533	T	T	S	CGCAGAAGGGCAAAGAGAAGATTAAAGGGGTGTGGCCCAGCCCCAC			
				CTGGATCTCACAGAAGAACTGCGGGATGGTATTGGGGCCGCAGAAGGGCAAAGAGAAGAT[GT]AAAGGGGTGTGGCCCAGCCCCACCAGCACCCCACAGGCCC			
11533	IS	[GT]		ACGCCGACCCAGCTAGCTGT	ctg15907	6	OR10C1
11569	I		A	GGTTGGCAGCCTCTGGGGCACAATT			
11569	P	G	A	ATGACGTGGCAGACGTCATGGCTCCATGAGY			
11569	P	A	A	CGCGCCGAGGATCATGGCTCCATGAGCY			
11569	T	G	A	TAGGGCTCATGGAGCCATGACATTGTGCCCCAGAGGCTGCCAACCCA			
11569	T	A	A	TAGGGCTCATGGAGCCATGATATTGTGCCCCAGAGGCTGCCAACCCA			
				AGAGCCTTCTTGCTTAACAAGCTAAAGAACCATCTGGGTTGGCAGCCTCTGGGGCACAAT[GA]TCATGGCTCCATGAGCCCTACTTCCCTGACTCCTTCTGGTTAT			
11569	IS	[GA]		CTTGTTTCCTTTTCCTG	ctg13206	14	
11571	I		A	CCAGTGCAGCGACACTCCCCTTTTGTCTAC			
11571	P	T	A	CGCGCCGAGGTAGCTATCCTTAGTCAAGCCY			
11571	P	G	A	ATGACGTGGCAGACGAGCTATCCTTAGTCAAGCY			
11571	T	T	A	CCCTGGCTTGACTAAGGATAGCTATAGACAAAAGGGGAGTGTCGCTGCACTGGGT			
11571	T	G	A	CCCTGGCTTGACTAAGGATAGCTCTAGACAAAAGGGGAGTGTCGCTGCACTGGGT			
				GTGCTTGCTTCTGTGGATGACCTCTTCCCACCCAGTGCAGCGACACTCCCCTTTTGTCTA[TG]AGCTATCCTTAGTCAAGCCAGGGCTGCGGGACCCTAACCCAC			
11571	IS	[TG]		ACTTCCGCTGTGTTTCTG	ctg13206	14	
11581	I		S	GAGAATAACTCCTAAATAAATAGTATAAAATGAAATGACATCAAATGTATAAATTAAAGTT			
11581	P	C	S	ATGACGTGGCAGACGTAAGCTAAAGTAATCCGGATY			
11581	P	G	S	CGCGCCGAGGCTAAGCTAAAGTAATCCGGATTY			
11581	T	C	S	GGTAAATCCGGATTACTTTAGCTTACACTTTAATTTATACATTTGATGTCATTTCATTTTATACTATTTATTTAGGAGTTATTCTC			
11581	T	G	S	GGTAAATCCGGATTACTTTAGCTTAGACTTTAATTTATACATTTGATGTCATTTCATTTTATACTATTTATTTAGGAGTTATTCTC			
				AATTCTTCAAAGTACTACCTACAATTTAAGTCATTGGTAAATCCGGATTACTTTAGCTTA[CG]ACTTTAATTTATACATTTGATGTCATTTCATTTTATACTATTTATTT			
11581	IS	[CG]		AGGAGTTATTCTC	ctg25099	7	
11582	I		S	GGCCCAGGCCAAGTGAGGGACTCTAT			
11582	P	C	S	ATGACGTGGCAGACGGCTAGTTTTCTGACTCGY			
11582	P	G	S	CGCGCCGAGGCGCTAGTTTTCTGACTCGY			
11582	T	C	S	GGTGCGAGTCAGAAAACTAGCCTAGAGTCCCTCACTTGGCCTGGGCCAC			
11582	T	G	S	GGTGCGAGTCAGAAAACTAGCGTAGAGTCCCTCACTTGGCCTGGGCCAC			
				ACCTCCACGTGCAGCCCTTTATCTGACAATGTAGACAGAGGTGCGAGTCAGAAAACTAGC[CG]TAGAGTCCCTCACTTGGCCTGGGCCACATCGAGAAAGGCAGT			
11582	IS	[CG]		CCCCAGGGTTTGGAGGAC	ctg22fin4	22	
11591	I		S	CAAGACAAAGCCTATATAATAAGTTACCAAAGCATCTCTCAAACTAAAAATAC			
11591	P	A	S	CGCGCCGAGGTAGTTACATTTCCTTGATTTTTTTTAAAY			
11591	P	T	S	ATGACGTGGCAGACAAGTTACATTTCCTTGATTTTTTTTAAY			
11591	T	A	S	CTTTTTTAAAAAAAATCAAGGAAATGTAACTATATTTTTAGTTTGAGAGATGCTTTGGTAACTTATTATATAGGCTTTGTCTTGTT			
11591	T	T	S	CTTTTTTAAAAAAAATCAAGGAAATGTAACTTTATTTTTAGTTTGAGAGATGCTTTGGTAACTTATTATATAGGCTTTGTCTTGTT			
				TTTTAAAGGCTCCTACATTGTCTGACATCCTTTTTTAAAAAAAATCAAGGAAATGTAACT[AT]TATTTTTAGTTTGAGAGATGCTTTGGTAACTTATTATATAGGCTTT			
11591	IS	[AT]		GTCTTGTTATAAGT			
11603	I		S	CTCTGTCGCTGGAGTGCAGTGTTGCAATCATA			
11603	P	A	S	CGCGCCGAGGTGCTCACTGCAACCTY			
11603	P	G	S	ATGACGTGGCAGACCGCTCACTGCAACCY			
11603	T	A	S	GCAGAGGTTGCAGTGAGCAATGATTGCAACACTGCACTCCAGCGACAGAGCT			
11603	T	G	S	GCAGAGGTTGCAGTGAGCGATGATTGCAACACTGCACTCCAGCGACAGAGCT			
				AGTCGCAGCCACTGGGGAGGCTGAGGTGCTTGAGCCCAGAAGGCAGAGGTTGCAGTGAGC[AG]ATGATTGCAACACTGCACTCCAGCGACAGAGCTAAGACTCT			
11603	IS	[AG]		GTCTCAAAAAAAAAAAAA			
11605	I		A	CACTCACTGGGGTCACAGTCATTGATGTCCTGATCT			
11605	P	G	A	ATGACGTGGCAGACGCAGGAAGGGCCAY			
11605	P	A	A	CGCGCCGAGGACAGGAAGGGCCAGY			
11605	T	G	A	TACACTGGCCCTTCCTGCGATCAGGACATCAATGACTGTGACCCCAGTGAGTGCA			
11605	T	A	A	TACACTGGCCCTTCCTGTGATCAGGACATCAATGACTGTGACCCCAGTGAGTGCA			
				AGCAGCACCCCCAAGAGCTCCCCTGCACTCACTGGGGTCACAGTCATTGATGTCCTGATC[GA]CAGGAAGGGCCAGTGTACCCTCCATGGCAGGTGCAGCTGAA			
11605	IS	[GA]		ACTCCCTGCCAGGTTGGTG	ctg18433	19	
11608	I		A	GCAAAGAACCCCAGCACAAAGGACACACACAT			
11608	P	A	A	CGCGCCGAGGAATGTTCAGCGCACTACY			
11608	P	G	A	ATGACGTGGCAGACGATGTTCAGCGCACTACY			
11608	T	A	A	ACTGGTAGTGCGCTGAACATTTGTGTGTGTCCTTTTGTGCTGGGGTTCTTTGCGT			
11608	T	G	A	ACTGGTAGTGCGCTGAACATCTGTGTGTGTCCTTTTGTGCTGGGGTTCTTTGCGT			
				AGACCCACCTGGACATACCCATGAAGACGCAAAGAACCCCAGCACAAAAGGACACACACA[AG]ATGTTCAGCGCACTACCAGTAGGTAATCCCAGCACTTTGGGA			
11608	IS	[AG]		GGCCGAGGTGGGCAGATC	ctg18433	19	
11610	I		S	GCTGCCCGACGTGGAACCCGCA			
11610	P	A	S	CGCGCCGAGGTGCCTTCCTCGCACY			
11610	P	G	S	ATGACGTGGCAGACCGCCTTCCTCGCAY			
11610	T	A	S	AGCAGTGCGAGGAAGGCAGCGGGTTCCACGTCGGGCAGCTC			
11610	T	G	S	AGCAGTGCGAGGAAGGCGGCGGGTTCCACGTCGGGCAGCTC			
				CAGGCCCAGCTCCCCAGCAGGAAGCATCCGGAAGCATTACTTGAGCAGTGCGAGGAAGGC[AG]GCGGGTTCCACGTCGGGCAGCTCAATCTCCGTGGATGTTGT			
11610	IS	[AG]		GGCCATTCCCCCGTTGAAC	ctg_na	NA	
11611	I		S	GTGCCTGACGCCTGGAAGGAAAGAGAGAGC			
11611	P	A	S	CGCGCCGAGGTATGGTGAGGGCTGGY			
11611	P	C	S	ATGACGTGGCAGACGATGGTGAGGGCTGGY			
11611	T	A	S	TCTGCCAGCCCTCACCATACTCTCTCTTTCCTTCCAGGCGTCAGGCACGC			
11611	T	C	S	TCTGCCAGCCCTCACCATCCTCTCTCTTTCCTTCCAGGCGTCAGGCACGC			
				GCAGGGCTAGGACCATGCCCTGGGCCACACAGGGCCTCACGCTCTGCCAGCCCTCACCAT[AC]CTCTCTCTTTCCTTCCAGGCGTCAGGCACGCACTCATTCACT			
11611	IS	[AC]		CATTCCCATATGCATGCA	ctg_na	NA	
11612	I		S	TCAGCTAGCTCTGTTGGACCCTGTGGTGTA			
11612	P	G	S	ATGACGTGGCAGACCGAGTGTGTTGTGGATGY			
11612	P	A	S	CGCGCCGAGGTGAGTGTGTTGTGGATGAY			
11612	T	G	S	TCCATCATCCACAACACACTCGACACCACAGGGTCCAACAGAGCTAGCTGAAC			
11612	T	A	S	TCCATCATCCACAACACACTCAACACCACAGGGTCCAACAGAGCTAGCTGAAC			
				GTTCTCATCGACCTCAGGACTGAAACTGCTACTTGAGAATCCATCATCCACAACACACTC[GA]ACACCACAGGGTCCAACAGAGCTAGCTGAACATGGATCGGAGG			
11612	IS	[GA]		ATTTACAGATCACCATA	ctg12567	16	
11615	I		A	CCAGCATATTAAAAGCATGCTGGAAGCAGTTTCTTCCAT			
11615	P	A	A	CGCGCCGAGGATCGTGGTTTACTGTAACTCY			
11615	P	G	A	ATGACGTGGCAGACGTCGTGGTTTACTGTAACTCY			
11615	T	A	A	TCTAGAGTTACAGTAAACCACGATTGGAAGAAACTGCTTCCAGCATGCTTTTAATATGCTGGGT			
11615	T	G	A	TCTAGAGTTACAGTAAACCACGACTGGAAGAAACTGCTTCCAGCATGCTTTTAATATGCTGGGT			

FIGURE 129B

				TTGGTGTCTAGGAGTGGGTCACCCAGCATATTAAAAGCATGCTGGAAGCAGTTTCTTCCA[AG]TCGTGGTTTACTGTAACTCTAGAATCACAGCGGTTACGTTTAA		
11615	IS	[AG]		GGAATCTTTAATGCCCT	ctg15064	7
11619	I		A	TGAGATCAGGGACGGGGGCTTGACTCAAAA		
11619	P	T	A	CGCGCCGAGGTAGAGGGTGGCCAAGY		
11619	P	C	A	ATGACGTGGCAGACCAGAGGGTGGCCAAY		
11619	T	T	A	GATCCTTGGCCACCCTCTATTTGAGTCAAGCCCCCGTCCCTGATCTCAGA		
11619	T	C	A	GATCCTTGGCCACCCTCTGTTTGAGTCAAGCCCCCGTCCCTGATCTCAGA		
				TGGGGGAGGAAAAGGTGGACTTGGGGTGTTCTGAGATCAGGGACGGGGGCTTGACTCAAA[TC]AGAGGGTGGCCAAGGATCTGGCTGATCAGAAGCTAATGAAT		
11619	IS	[TC]		GAACTAGTCTTAAGAAGGC	ctg13206	14
11620	I		S	GAACCCAACCATGTGCCTTCACAGCCCT		
11620	P	T	S	CGCGCCGAGGAGTCATGTGCGTCTCCY		
11620	P	G	S	ATGACGTGGCAGACCGTCATGTGCGTCTCY		
11620	T	T	S	ACCTGGAGACGCACATGACTGGGCTGTGAAGGCACATGGTTGGGTTCAT		
11620	T	G	S	ACCTGGAGACGCACATGACGGGGCTGTGAAGGCACATGGTTGGGTTCAT		
				CTGGCATCGAGAACAATGGTCATTACATCCCATTGTCTCACACCTGGAGACGCACATGAC[TG]GGGCTGTGAAGGCACATGGTTGGGTTCATCAGAGACCTCCCA		
11620	IS	[TG]		GCCCCCTTGGATGAAGTG	ctg22bn4	22
11627	I		S	TGAGGATGCAGTGAGCTGTGATTGCGTCACC		
11627	P	C	S	ATGACGTGGCAGACGGCACTCCAGCATGY		
11627	P	A	S	CGCGCCGAGGTGCACTCCAGCATGGY		
11627	T	C	S	TTGCCCATGCTGGAGTGCCGTGACGCAATCACAGCTCACTGCATCCTCAAA		
11627	T	A	S	TTGCCCATGCTGGAGTGCAGTGACGCAATCACAGCTCACTGCATCCTCAAA		
				AAAATGCCATATTTTTTTTTTAAGAGATGGGGTCTTGCTCTGTTGCCCATGCTGGAGTGC[CA]GTGACGCAATCACAGCTCACTGCATCCTCAAACTCCTGGGCTC		
11627	IS	[CA]		AAGCAAGCCTCCTGCCT		
11628	I		S	ACCTGCCTTGTAGCTCAAGTCCTACCTCAGCA		
11628	P	G	S	ATGACGTGGCAGACCACTCGAAGGAGCTTTCY		
11628	P	A	S	CGCGCCGAGGTACTCGAAGGAGCTTTCAY		
11628	T	G	S	TCAGTGAAAGCTCCTTCGAGTGGCTGAGGTAGGACTTGAGCTACAAGGCAGGTGG		
11628	T	A	S	TCAGTGAAAGCTCCTTCGAGTAGCTGAGGTAGGACTTGAGCTACAAGGCAGGTGG		
				TCGTGGCCCTAGCTGCAGTCAGATAAACTGAGGTTCAGGTCAGTGAAAGCTCCTTCGAGT[GA]GCTGAGGTAGGACTTGAGCTACAAGGCAGGTGGGGACGCTC		
11628	IS	[GA]		ACCCTGTCCCCTCCTCTTG	ctg15590	7
11658	I		A	ACCCACTAGGCTTTCTGTGCCTGTAGTGTAACTTGA		
11658	P	C	A	ATGACGTGGCAGACCACTAGCTGTGCATGTGY		
11658	P	T	A	CGCGCCGAGGTACTAGCTGTGCATGTGAY		
11658	T	C	A	TTTGTCACATGCACAGCTAGTGCAAGTTACACTACAGGCACAGAAAGCCTAGTGGGTGC		
11658	T	T	A	TTTGTCACATGCACAGCTAGTACAAGTTACACTACAGGCACAGAAAGCCTAGTGGGTGC		
				GTGGTGTTGTCATTGCATGTTCTGCACCCACTAGGCTTTCTGTGCCTGTAGTGTAACTTG[CT]ACTAGCTGTGCATGTGACAAAGGTCACTGTCTCAGTGGCCAGA		
11658	IS	[CT]		GATACAGGAGTCACTAT	ctg19247	7
11659	I		S	GCCAGATGCACACACACGTGTATATATATGATTTGTGAGAAGCT		
11659	P	G	S	CGCGCCGAGGCGGGATGGGCAAAAAGY		
11659	P	C	S	ATGACGTGGCAGACGGGGATGGGCAAAAAGY		
11659	T	G	S	GTGCCTTTTTGCCCATCCCGGCTTCTCACAAATCATATATATACACGTGTGTGTGCATCTGGCCT		
11659	T	C	S	GTGCCTTTTTGCCCATCCCCGCTTCTCACAAATCATATATATACACGTGTGTGTGCATCTGGCCT		
				AAGGAGGTTCTGCACTATCTGTCCAACAATAGAGCTTAGTTGTGCCTTTTTGCCCATCCC[GC]GCTTCTCACAAATCATATATATACACGTGTGTGTGCATCTGGCC		
11659	IS	[GC]		TCAACCTGGCCAGCTC	ctg18037	7
11661	I		A	CCAGCGTTCTCCACGGGGGTATCTGGC		
11661	P	T	A	CGCGCCGAGGTTAGTTTTCAAGGCCCCY		
11661	P	G	A	ATGACGTGGCAGACGTAGTTTTCAAGGCCCCY		
11661	T	T	A	GCACGGGGCCTTGAAAACTAACCAGATACCCCCGTGGAGAACGCTGGTG		
11661	T	G	A	GCACGGGGCCTTGAAAACTACCCAGATACCCCCGTGGAGAACGCTGGTG		
				CCACTCGGGACTTTGAGGAACGCCCAGTCTCCCACCAGCGTTCTCCACGGGGGTATCTGG[TG]TAGTTTTCAAGGCCCCGTGCAGCCCCCACACCTATTTTCTCT		
11661	IS	[TG]		GTGGCACCGCGGAGGTCT	ctg13206	14
11665	I		S	CCTGGGTCACTCTGGGCACCCCTCT		
11665	P	T	S	CGCGCCGAGGATGAGCCTCAGGAGTTGY		
11665	P	C	S	ATGACGTGGCAGACGTGAGCCTCAGGAGTTY		
11665	T	T	S	CTACCAACTCCTGAGGCTCATGAGGGGTGCCCAGAGTGACCCAGGAG		
11665	T	C	S	CTACCAACTCCTGAGGCTCACGAGGGGTGCCCAGAGTGACCCAGGAG		
				CCCTCCCACACTGTGTTCTAGCCCACCTTCAGAACAACAGCTACCAACTCCTGAGGCTCA[TC]GAGGGGTGCCCAGAGTGACCCAGGAGGCAGGCAGCATCACC		
11665	IS	[TC]		CCCACCATATGGAAGGGCA	ctg30	7
11669	I		A	TTCCAGTCTGAATCAAAACCCAAACCCCCCCA		
11669	P	T	A	CGCGCCGAGGTTTTTTTTTTTTTCAAGAGTAAAGTGY		
11669	P	C	A	ATGACGTGGCAGACCTTTTTTTTTTTTTCAAGAGTAAAGTGY		
11669	T	T	A	GTTGCACTTTACTCTTGAAAAAAAAAAAAAGGGGGGGTTTGGGTTTTGATTCAGACTGGAAAA		
11669	T	C	A	GTTGCACTTTACTCTTGAAAAAAAAAAAAGGGGGGGTTTGGGTTTTGATTCAGACTGGAAAA		
				AATGTTTTGCTTATTGTCTTTGCCAAATTTTCCAGTCTGAATCAAAACCCAAACCCCCCC[TC]TTTTTTTTTTTTTCAAGAGTAAAGTGCAACTTTATTAAGAAAGTAA		
11669	IS	[TC]		AGGAATAAAAGAAT		
11671	I		A	CCCAAGAAACATGTCATTCTACTGAAAACGCACTGCTAAATTACAGT		
11671	P	C	A	CGCGCCGAGGCGCACTGTCTACACAAGY		
11671	P	G	A	ATGACGTGGCAGACGGCACTGTCTACACAAGY		
11671	T	C	A	GCATCTTGTGTAGACAGTGCGCTGTAATTTAGCAGTGCGTTTTCAGTAGAATGACATGTTTCTTGGGGG		
11671	T	G	A	GCATCTTGTGTAGACAGTGCCCTGTAATTTAGCAGTGCGTTTTCAGTAGAATGACATGTTTCTTGGGGG		
				CATGTAAGAGACCCCCCAAGAAACATGTCATTCTACTGAAAACGCACTGCTAAATTACAG[CG]GCACTGTCTACACAAGATGCACTCACTTCTGACACCAACTGCAA		
11671	IS	[CG]		GACTGGGGTTCCCCAA	ctg15064	7
11690	I		A	AATGGATGTTGGGAACTCCATTTCACCAGATTTTCA		
11690	P	T	A	CGCGCCGAGGTTCTCCCTGATCAGAAAGTY		
11690	P	C	A	ATGACGTGGCAGACCTCTCCCTGATCAGAAAGTY		
11690	T	T	A	GTAAACTTTCTGATCAGGGAGAAGAAAATCTGGTGAAATGGAGTTCCCAACATCCATTTT		
11690	T	C	A	GTAAACTTTCTGATCAGGGAGAGGAAAATCTGGTGAAATGGAGTTCCCAACATCCATTTT		
				ATATTTAACAGTGGGGAGTAGATAAAATGGATGTTGGGAACTCCATTTCACCAGATTTTC[TC]TCTCCCTGATCAGAAAGTTTACCTTCACTTAAGGACTTGTGAAAA		
11690	IS	[TC]		TTTTTTCAGAATCTT	ctg15064	7
11692	I		A	ACACCTCATTCTATGGTCAGGCTCACTAACTAGGCAAATT		
11692	P	A	A	CGCGCCGAGGACATCAGCAACTAATTGTAGTY		
11692	P	C	A	ATGACGTGGCAGACCCATCAGCAACTAATTGTAGTY		
11692	T	A	A	CAGAACTACAATTAGTTGCTGATGTATTTGCCTAGTTAGTGAGCCTGACCATAGAATGAGGTGTTT		
11692	T	C	A	CAGAACTACAATTAGTTGCTGATGGATTTGCCTAGTTAGTGAGCCTGACCATAGAATGAGGTGTTT		
				ATAAAAAACACTGAAGTTGAAACACCTCATTCTATGGTCAGGCTCACTAACTAGGCAAAT[AC]CATCAGCAACTAATTGTAGTTCTGAGTGCGGGTATATCTGTGCC		
11692	IS	[AC]		ATGGTCAGTGAATGCT	ctg14708	2
11695	I		S	CGTTCAGGACCAAATTTAATGGTTTCTGTTGGAAAATCA		
11695	P	G	S	ATGACGTGGCAGACCCGTTCCTAACCAATGGY		
11695	P	A	S	CGCGCCGAGGTCGTTCCTAACCAATGGAY		
11695	T	G	S	TTCTTCCATTGGTTAGGAACGGGATTTTCCAACAGAAACCATTAAATTTGGTCCTGAACGCA		
11695	T	A	S	TTCTTCCATTGGTTAGGAACGAGATTTTCCAACAGAAACCATTAAATTTGGTCCTGAACGCA		
				GATCCCTCTGAGCCATTTTAGTGCCTGTGGTAATTTTGGTTCTTCCATTGGTTAGGAACG[GA]GATTTTCCAACAGAAACCATTAAATTTGGTCCTGAACGCATGTA		
11695	IS	[GA]		TATTGATTGCTGGGTA	ctg25099	7
11697	I		S	TCCCATCTGCGCACCAGGCTGCT		
11697	P	T	S	CGCGCCGAGGAGATCCAAGGACACGGY		
11697	P	C	S	ATGACGTGGCAGACGGATCCAAGGACACGGY		
11697	T	T	S	GGCACCGTGTCCTTGGATCTGCAGCCTGGTGCGCAGATGGGAGT		
11697	T	C	S	GGCACCGTGTCCTTGGATCCGCAGCCTGGTGCGCAGATGGGAGT		

FIGURE 129B

				CGCTTTCTGCTCTGCCCTTGGGAACAGAGGGTTGCAGCCTGGGCACCGTGTCCTTGGATC[TC]GCAGCCTGGTGCGCAGATGGGAGTGCCTCCCACACTGGGC			
11697	IS	[TC]		AGGGGAGCTGGAGCCTGGAC	ctg17207	19	FLJ13241
11698	I		A	CAGCTGGCAGAAGAAAGGTGCATAAGCAGATGAAATTTT			
11698	P	A	A	CGCGCCGAGGAGATCCTAGCCACCATCY			
11698	P	G	A	ATGACGTGGCAGACGGATCCTAGCCACCATY			
11698	T	A	A	CCTAGATGGTGGCTAGGATCTAAATTTCATCTGCTTATGCACCTTTCTTCTGCCAGCTGCT			
11698	T	G	A	CCTAGATGGTGGCTAGGATCCAAATTTCATCTGCTTATGCACCTTTCTTCTGCCAGCTGCT			
				CACTAGGACTCTGGCGGGTGAGCAGCTGGCAGAAGAAAGGTGCATAAGCAGATGAAATTT[AG]GATCCTAGCCACCATCTAGGGGAATGAATGTTCCACTTGAAG			
11698	IS	[AG]		TCTAGGAGACAAAATAAA	ctg13206	14	
11701	I		A	CGATACGTGTAACCTGTTCTGTAGCCCTATAAAGGACAAAAATAGAAT			
11701	P	C	A	ATGACGTGGCAGACCCACTTATGGGGTGAGAY			
11701	P	A	A	CGCGCCGAGGACACTTATGGGGTGAGAAY			
11701	T	C	A	TTTTTTCTCACCCCATAAGTGGTTCTATTTTTGTCCTTTATAGGGCTACAGAACAGGTTACACGTATCGCC			
11701	T	A	A	TTTTTTCTCACCCCATAAGTGTTTCTATTTTTGTCCTTTATAGGGCTACAGAACAGGTTACACGTATCGCC			
				AACAAGGGGTGGCGATACGTGTAACCTGTTCTGTAGCCCTATAAAGGACAAAAATAGAA[CA]CACTTATGGGGTGAGAAAAAAGGCCTGTACCTGCACATACATG			
11701	IS	[CA]		CACACACACCTTTCCTT	ctg15804	2	
11703	I		S	GCAAAGAAATTTTTTACCATGCTCATATGTTACGTGGGT			
11703	P	C	S	ATGACGTGGCAGACGTATACCTGTTGCACCTATGY			
11703	P	T	S	CGCGCCGAGGATATACCTGTTGCACCTATGY			
11703	T	C	S	TGGGCATAGGTGCAACAGGTATACCCCACGTAACATATGAGCATGGTAAAAAATTTCTTTGCCT			
11703	T	T	S	TGGGCATAGGTGCAACAGGTATATCCCACGTAACATATGAGCATGGTAAAAAATTTCTTTGCCT			
				AACAAACAAACAAACAAACACCTACCTGTGTGTCTGTTGGGCATAGGTGCAACAGGTATA[CT]CCCACGTAACATATGAGCATGGTAAAAAATTTCTTTGCCTTATT			
11703	IS	[CT]		ACAATTTCTCCCACTG	ctg15804	2	
11708	I		A	CAGTGCCTTTGCCCAATATGACCTTGCCTGT			
11708	P	C	A	ATGACGTGGCAGACCCTGCCCACTTACTTTCY			
11708	P	A	A	CGCGCCGAGGACTGCCCACTTACTTTCY			
11708	T	C	A	GCTGGAAAGTAAGTGGGCAGGCAGGCAAGGTCATATTGGGCAAAGGCACTGGG			
11708	T	A	A	GCTGGAAAGTAAGTGGGCAGTCAGGCAAGGTCATATTGGGCAAAGGCACTGGG			
				ATAAAATTATTAACTCCTATATCCATCGCCCAGTGCCTTTGCCCAATATGACCTTGCCTG[CA]CTGCCCACTTACTTTCCAGCATATCACCCTGACCACTCAACACTC			
11708	IS	[CA]		ATCACAAAGAGGCAC	ctg14708	2	
11709	I		A	CCGAGCCAAAGTCTATCAGCTTGATTGTGAAGTCCTCT			
11709	P	G	A	ATGACGTGGCAGACGGCGATCACGATGTTCY			
11709	P	A	A	CGCGCCGAGGAGCGATCACGATGTTCTY			
11709	T	G	A	GATGAGAACATCGTGATCGCCGAGGACTTCACAATCAAGCTGATAGACTTTGGCTCGGCC			
11709	T	A	A	GATGAGAACATCGTGATCGCTGAGGACTTCACAATCAAGCTGATAGACTTTGGCTCGGCC			
				TTTTCCCCTTTCCAAGTAGGCGGCCGAGCCAAAGTCTATCAGCTTGATTGTGAAGTCCTC[GA]GCGATCACGATGTTCTCATCCTTGATGTCACGGTGGATGATGT			
11709	IS	[GA]		CCTTCAAGCGCAGGTAT	ctg14708	2	
11715	I		S	GGGGCAGAAGTCTGTTGGTGCCTCCTT			
11715	P	T	S	CGCGCCGAGGATGTCCAGATTCCGTTGY			
11715	P	G	S	ATGACGTGGCAGACCTGTCCAGATTCCGTTGY			
11715	T	T	S	GCACCAACGGAATCTGGACATAGGAGGCACCAACAGACTTCTGCCCCAT			
11715	T	G	S	GCACCAACGGAATCTGGACAGAGGAGGCACCAACAGACTTCTGCCCCAT			
				TCACCATGGCCCAGTCCTTTGGGGTGCCTGGACAAAGGAGGCACCAACGGAATCTGGACA[TG]AGGAGGCACCAACAGACTTCTGCCCCATGATTCTTGGTCCAC			
11715	IS	[TG]		CAGCTAAACCGCGTTTAG	ctg14708	2	
11723	I		S	GGCCTGGTTGGGTAACTCCTGGAAGGAAACT			
11723	P	C	S	ATGACGTGGCAGACGTCAGTGGCTCCTCCY			
11723	P	T	S	CGCGCCGAGGATCAGTGGCTCCTCCY			
11723	T	C	S	AGTGGGAGGAGCCACTGACGTTTCCTTCCAGGAGTTACCCAACCAGGCCTC			
11723	T	T	S	AGTGGGAGGAGCCACTGATGTTTCCTTCCAGGAGTTACCCAACCAGGCCTC			
				ACAACCTCCACTCCCACCTGGGGCATTTGCCCTCCTCCCGGGAGTGGGAGGAGCCACTGA[CT]GTTTCCTTCCAGGAGTTACCCAACCAGGCCTCCAACTGGTC			
11723	IS	[CT]		GGCCGGCCTGCTGGCATGG	ctg14708	2	
11724	I		S	GTGTGCCTGAGCAGGAACTAGACCTCGCT			
11724	P	C	S	ATGACGTGGCAGACGTGTCCAGCCACTGGY			
11724	P	T	S	CGCGCCGAGGATGTCCAGCCACTGGY			
11724	T	C	S	AGGCCCAGTGGCTGGACACGCGAGGTCTAGTTCCTGCTCAGGCACACGT			
11724	T	T	S	AGGCCCAGTGGCTGGACATGCGAGGTCTAGTTCCTGCTCAGGCACACGT			
				CCGGGCTGGGGCGGTTGTGCTGCAGGACAGATAACCCCCCCAAGGCCCAGTGGCTGGACA[CT]GCGAGGTCTAGTTCCTGCTCAGGCACACGTGTGGTGGGGC			
11724	IS	[CT]		GGCGCGGTACCTGCTCACCA	ctg14708	2	
11727	I		A	GGACCCCTGTGATTTGGTCGCCAACCAAAT			
11727	P	G	A	ATGACGTGGCAGACGAGAAAGCTTCCGAATCGY			
11727	P	A	A	CGCGCCGAGGAAGAAAGCTTCCGAATCGY			
11727	T	G	A	AGCACGATTCGGAAGCTTTCTCTTTGGTTGGCGACCAAATCACAGGGGTCCAC			
11727	T	A	A	AGCACGATTCGGAAGCTTTCTTTTTGGTTGGCGACCAAATCACAGGGGTCCAC			
				CAGCCCCGAGCTCTCCCAGGAGTCCCACAGTGGACCCCTGTGATTTGGTCGCCAACCAAA[GA]AGAAAGCTTCCGAATCGTGCTCAGCGCAGGCAGGGGTGCAG			
11727	IS	[GA]		GAAAAGATCGGAGAGCGAG	ctg14708	2	
11733	I		S	CCTGAATCTCCTCCGTGAGTATCTTCTGTTCCTCTGTC			
11733	P	A	S	CGCGCCGAGGTAGCCAGGCTGCCY			
11733	P	C	S	ATGACGTGGCAGACGAGCCAGGCTGCCY			
11733	T	A	S	GGATGGCAGCCTGGCTAACAGAGGAACAGAAGATACTCACGGAGGAGATTCAGGGT			
11733	T	C	S	GGATGGCAGCCTGGCTCACAGAGGAACAGAAGATACTCACGGAGGAGATTCAGGGT			
				CCTGAGAGGGACTGAGAAGCCCGGCCTCTGGCCATGTGTATTTGGGATGGCAGCCTGGCT[AC]ACAGAGGAACAGAAGATACTCACGGAGGAGATTCAGGGTGA			
11733	IS	[AC]		CTGGGTCACTGCGGCTGGC	ctg15842	19	
11741	I		A	GACACCGAATTTGCTGGCACTTTGATCTTGGACTTA			
11741	P	T	A	CGCGCCGAGGTCCAGCCTCCAAAATTGY			
11741	P	C	A	ATGACGTGGCAGACCCCAGCCTCCAAAATTGY			
11741	T	T	A	CTCACAATTTTGGAGGCTGGAAAGTCCAAGATCAAAGTGCCAGCAAATTCGGTGTCTG			
11741	T	C	A	CTCACAATTTTGGAGGCTGGGAAGTCCAAGATCAAAGTGCCAGCAAATTCGGTGTCTG			
				ATCTGTGAGGAACAGGCCTCCGACAGACACCGAATTTGCTGGCACTTTGATCTTGGACTT[TC]CCAGCCTCCAAAATTGTGAGTGATAAATTTCTGTTGTTTATAAA			
11741	IS	[TC]		TTACCCAGTCTAAAAT	ctg16235	17	
11745	I		A	GCCTCGATGTTGCTGGCCATGTCGTCT			
11745	P	A	A	CGCGCCGAGGAATCTCCATCTTCAGCTCY			
11745	P	G	A	ATGACGTGGCAGACGATCTCCATCTTCAGCTCY			
11745	T	A	A	GAGCGAGCTGAAGATGGAGATTGACGACATGGCCAGCAACATCGAGGCTC			
11745	T	G	A	GAGCGAGCTGAAGATGGAGATCGACGACATGGCCAGCAACATCGAGGCTC			
				GAAGGGCCAGTCAGGTACCTTTGACTTGGAGAGAGCCTCGATGTTGCTGGCCATGTCGTC[AG]ATCTCCATCTTCAGCTCGCTCTTCTCCTTCTCCAGCTTCTGCT			
11745	IS	[AG]		TCACCCGCTGCAGGTTG	ctg16235	17	
11746	I		A	GGGAGGGCACTGGGCTTAGGGATGGA			
11746	P	T	A	CGCGCCGAGGTGATCAAAGCACCCTTAACY			
11746	P	C	A	ATGACGTGGCAGACCGATCAAAGCACCCTTAAY			
11746	T	T	A	TATTGTTAAGGGTGCTTTGATCACCATCCCTAAGCCCAGTGCCCTCCCCG			
11746	T	C	A	TATTGTTAAGGGTGCTTTGATCGCCATCCCTAAGCCCAGTGCCCTCCCCG			
				TCCCAGTGAAATTGGCAATTAATTCTCAGAAGACGGGGAGGGCACTGGGCTTAGGGATGG[TC]GATCAAAGCACCCTTAACAATAATATTTAGCTTTACTGGGCCT			
11746	IS	[TC]		ATTTTGAGCCTTTGCAA	ctg16235	17	
11747	I		A	GGCTTGTAACTGACTGAGTTCAAACTCCTTCCTGCAAATAGATTAAAAAAAAATAAT			
11747	P	A	A	CGCGCCGAGGAGAACATGAAATACAAGCCTY			
11747	P	G	A	ATGACGTGGCAGACGGAACATGAAATACAAGCCTY			
11747	T	A	A	CAAGAGGCTTGTATTTCATGTTCTTTATTTTTTTTTAATCTATTTGCAGGAAGGAGTTTGAACTCAGTCAGTTACAAGCCAA			
11747	T	G	A	CAAGAGGCTTGTATTTCATGTTCCTTATTTTTTTTTAATCTATTTGCAGGAAGGAGTTTGAACTCAGTCAGTTACAAGCCAA			

FIGURE 129B

				TTTTGGCTTGTAACTGACTGAGTTCAAACTCCTTCCTGCAAATAGATTAAAAAAAAATAA[AG]GAACATGAAATACAAGCCTCTTGGAGGGGGTGAAAGTTGGCTTT			
11747	IS	[AG]		TAGGCTGAGACACAGA	ctg16235	17	
11749	I		S	GCTGGAAGGAGATCTGAAAATGTCCCAGGAATCCATTT			
11749	P	T	S	CGCGCCGAGGATGGATCTAGAAAATGACAAGCY			
11749	P	C	S	ATGACGTGGCAGACGTGGATCTAGAAAATGACAAGY			
11749	T	T	S	TGCTGCTTGTCATTTTCTAGATCCATAATGGATTCCTGGGACATTTTCAGATCTCCTTCCAGCTT			
11749	T	C	S	TGCTGCTTGTCATTTTCTAGATCCACAATGGATTCCTGGGACATTTTCAGATCTCCTTCCAGCTT			
11749	IS	[TC]		AAAGAAATATCTACTTTTTCAATTTCTCTTCTATTTGCTGCTTGTCATTTTCTAGATCCA[TC]AATGGATTCCTGGGACATTTTCAGATCTCCTTCCAGCTTCCTCTTC GCCCTTTCCAAGTC	ctg16235	17	
11757	I		S	AGTGAACGCTGGGCCTAGCAAACACCTA			
11757	P	A	S	CGCGCCGAGGTGATAGCCCAGGCTGY			
11757	P	G	S	ATGACGTGGCAGACCGATAGCCCAGGCTY			
11757	T	A	S	ATTACAGCCTGGGCTATCAAGGTGTTTGCTAGGCCCAGCGTTCACTGA			
11757	T	G	S	ATTACAGCCTGGGCTATCGAGGTGTTTGCTAGGCCCAGCGTTCACTGA			
11757	IS	[AG]		AAATGGAACTACTGGGCTATTAGACCTACGTGCAGGTATTCTATTACAGCCTGGGCTATC[AG]AGGTGTTTGCTAGGCCCAGCGTTCACTGAGTCTGCATCTAGCT CTGAGGTTTTATGAACA	ctg11	15	
11758	I		A	CCTTCTTCTCTTGGTGGGAGGTCCCTATCAAACAA			
11758	P	T	A	CGCGCCGAGGTAATTGATTCCTATCAGCCTAGY			
11758	P	C	A	ATGACGTGGCAGACCAATTGATTCCTATCAGCCTY			
11758	T	T	A	TTCTCTAGGCTGATAGGAATCAATTATGTTTGATAGGGACCTCCCACCAAGAGAAGAAGGCA			
11758	T	C	A	TTCTCTAGGCTGATAGGAATCAATTGTGTTTGATAGGGACCTCCCACCAAGAGAAGAAGGCA			
11758	IS	[TC]		AGTGCTGTCTTCTCCCCCATGCCCTGCCTTCTTCTCTTGGTGGGAGGTCCCTATCAAACA[TC]AATTGATTCCTATCAGCCTAGAGAAGCTGCGCTCCTTGCTGTG GCCCTAGCTCACCTGGT	ctg11	15	
11760	I		S	ATCGCGATTTTTGGCATTTGACTTTAGGAAAAATGTGAAGAGAGAAAT			
11760	P	C	S	ATGACGTGGCAGACGTAAAAATTTTAATTCAAAATTCAGCTCY			
11760	P	T	S	CGCGCCGAGGATAAAAATTTTAATTCAAAATTCAGCTCY			
11760	T	C	S	TTTTGAGCTGAATTTTGAATTAAAATTTTTACTTTCTCTCTTCACATTTTTCCTAAAGTCAAATGCCAAAAATCGCGATGT			
11760	T	T	S	TTTTGAGCTGAATTTTGAATTAAAATTTTTATTTTCTCTCTTCACATTTTTCCTAAAGTCAAATGCCAAAAATCGCGATGT			
11760	IS	[CT]		TGTTGAAATCAAATCAATTCTGTCTTTTATTTTGAGCTGAATTTTGAATTAAAATTTTTA[CT]TTTCTCTCTTCACATTTTTCCTAAAGTCAAATGCCAAAAATCGCGAT GTGAGTCTGCCAG			
11761	I		A	ACTGAAAATACAAAAAGTAGCCGGGCGTGGTGGA			
11761	P	C	A	ATGACGTGGCAGACCGGGTGCCTATAATTCCY			
11761	P	T	A	CGCGCCGAGGTGGGTGCCTATAATTCCAY			
11761	T	C	A	TAGCTGGAATTATAGGCACCCGCCACCACGCCCGGCTACTTTTTGTATTTTCAGTAG			
11761	T	T	A	TAGCTGGAATTATAGGCACCCACCACCACGCCCGGCTACTTTTTGTATTTTCAGTAG			
11761	IS	[CT]		TGGCCAACACAGTGAAACCCCGTCTCTACTGAAAATACAAAAAGTAGCCGGGCGTGGTGG[CT]GGGTGCCTATAATTCCAGCTACTCGGGAGGCCGAGGCAGGA GAATCACTTGAACCCGGGA	MULTIPLE	MULTIPLE	
11762	I		S	GCAGTATCGCCAGTTGTGGTCCTTCACTGGT			
11762	P	G	S	ATGACGTGGCAGACCTCGGTCAGCAGGTY			
11762	P	T	S	CGCGCCGAGGATCGGTCAGCAGGTGY			
11762	T	G	S	AAGCCACCTGCTGACCGAGCCAGTGAAGGACCACAACTGGCGATACTGCCC			
11762	T	T	S	AAGCCACCTGCTGACCGATCCAGTGAAGGACCACAACTGGCGATACTGCCC			
11762	IS	[GT]		TGAAGAGCACTTGCAGCCGCATCAGGTGAACATCAAACTGCAAAGCCACCTGCTGACCGA[GT]CCAGTGAAGGACCACAACTGGCGATACTGCCCTGCCCACCAC AGCCCACTGTCTGCCTTC	ctg16235	17	
11782	I		S	CATCTGGGACGATAACCCTGCCCCCTCT			
11782	P	G	S	CGCGCCGAGGCACCCACGATAAGGTCAY			
11782	P	C	S	ATGACGTGGCAGACGACCCACGATAAGGTCAY			
11782	T	G	S	GCACTGACCTTATCGTGGGTGGAGGGGGCAGGGTTATCGTCCCAGATGGT			
11782	T	C	S	GCACTGACCTTATCGTGGGTCGAGGGGGCAGGGTTATCGTCCCAGATGGT			
11782	IS	[GC]		GGCCACGCTGGTGGGTCGGGGCTGCCTGGGGGCACCGGGCGCACTGACCTTATCGTGGG[GC]GAGGGGGCAGGGTTATCGTCCCAGATGGTGGACACCTGG TTGAGGCTGTCAGCCGGCAGG	ctg_na	NA	
11791	I		S	CCCCCAAGCGTAGCCAGGGTGGC			
11791	P	T	S	CGCGCCGAGGATGCCAAAAGCCGAGY			
11791	P	A	S	ATGACGTGGCAGACTTGCCAAAAGCCGAGY			
11791	T	T	S	AGAACTCGGCTTTTGGCATCCACCCTGGCTACGCTTGGGGGCA			
11791	T	A	S	AGAACTCGGCTTTTGGCAACCACCCTGGCTACGCTTGGGGGCA			
11791	IS	[TA]		GGCCTGACGTACTCAGCAGCATGTCCCAACCCAAGAGGAAACAGAACTCGGCTTTTGGCA[TA]CCACCCTGGCTACGCTTGGGGGCAGCTGGCGAGCCGAGACC TTAGTGGGCTTCAGAAGGC	ctg13206	14	LOC51004
11796	I		S	AGCAGCAGCAGCAGCCTCCCCA			
11796	P	A	S	CGCGCCGAGGTGTCAACCAACCAGCAY			
11796	P	G	S	ATGACGTGGCAGACCGTCAACCAACCAGCY			
11796	T	A	S	CGGGTGCTGGTTGGTTGACAGGGGAGGCTGCTGCTGCTGCTGC			
11796	T	G	S	CGGGTGCTGGTTGGTTGACGGGGGAGGCTGCTGCTGCTGCTGC			
11796	IS	[AG]		GGCTGCTGCTGGGACTGCGAGGGCGCCTGTGGGGCTGGTTGCGGGTGCTGGTTGGTTGAC[AG]GGGGAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT GCTGGAGCTGGAGCTGGAGCT			
11803	I		S	GGTAGCCCCTGTCCAATCTGAGTGGCCA			
11803	P	G	S	ATGACGTGGCAGACCAATGGGCCCTCTGY			
11803	P	A	S	CGCGCCGAGGTAATGGGCCCTCTGCY			
11803	T	G	S	AGGAGCAGAGGGCCCATTGGGCCACTCAGATTGGACAGGGGCTACCTG			
11803	T	A	S	AGGAGCAGAGGGCCCATTAGGCCACTCAGATTGGACAGGGGCTACCTG			
11803	IS	[GA]		AGATATCCTGGCTCTGAGAGCTCATACCAGATGCCCCCACATAGGAGCAGAGGGCCCATT[GA]GGCCACTCAGATTGGACAGGGGCTACCTGAGAGGGAACAGG AGTCAGGGCTGAGGCATGT	ctg13206	14	
11813	I		S	TGAGAGGGTGTCCCCCGCAAGTCACA			
11813	P	G	S	ATGACGTGGCAGACCCTCTCCAAGTCACCCY			
11813	P	A	S	CGCGCCGAGGTCTCTCCAAGTCACCCY			
11813	T	G	S	GCAGGGGTGACTTGGAGAGGGTGACTTGCGGGGGACACCCTCTCACC			
11813	T	A	S	GCAGGGGTGACTTGGAGAGAGTGACTTGCGGGGGACACCCTCTCACC			
11813	IS	[GA]		CCCTGGGCTTCAGTATTCGGGGGTCCTGGGGGCCGGGGTGGGCAGGGGTGACTTGGAGAG[GA]GTGACTTGCGGGGGACACCCTCTCACCCGGCCCCTCGTG CCCCAGGAAGAGCAGCGGGCA			
11820	I		S	CCTCCCCAGGGCCCCTATGCTGAA			
11820	P	G	S	ATGACGTGGCAGACCGAGCCCGTGTGGY			
11820	P	A	S	CGCGCCGAGGTGAGCCCGTGTGGY			
11820	T	G	S	ACGGCCACACGGGCTCGTCAGCATAGGGGCCCTGGGGAGGCG			
11820	T	A	S	ACGGCCACACGGGCTCATCAGCATAGGGGCCCTGGGGAGGCG			
11820	IS	[GA]		CCGCATTAGTCGAGTCTGTTAACCACAGCTTTAAGGAGGACTCCACGGCCACACGGGCTC[GA]TCAGCATAGGGGCCCTGGGGAGGCGAGGCTAGTATCCAGCA GCCTCAGGGCTGTGCCTTT	ctg18466	16	
11829	I		S	CCACGGGTGATCCCCACTGAAATCTCTGAA			
11829	P	G	S	ATGACGTGGCAGACCTCCTGGGCCCACY			
11829	P	A	S	CGCGCCGAGGTTCCTGGGCCCACY			
11829	T	G	S	GAGTGTGGGCCCAGGAGTCAGAGATTTCAGTGGGGATCACCCGTGGCC			
11829	T	A	S	GAGTGTGGGCCCAGGAATCAGAGATTTCAGTGGGGATCACCCGTGGCC			
11829	IS	[GA]		GCTGGGTTTCAGACCTGAAATCCTGTGGCTGGGAGTGGGATTCAGAGTGTGGGCCCAGGA[GA]TCAGAGATTTCAGTGGGGATCACCCGTGGCCCTTGCTTGCT TTGCGAGTCTGGTCAAGTT	ctg18297	19	
11830	I		A	TCCCAAGAAGCCTCCCCTGGCTCCT			
11830	P	G	A	ATGACGTGGCAGACGCCTGAGACAGTTTGTCY			
11830	P	A	A	CGCGCCGAGGACCTGAGACAGTTTGTCTY			
11830	T	G	A	AGGCAGACAAACTGTCTCAGGCGGAGCCAGGGGAGGCTTCTTGGGAAA			
11830	T	A	A	AGGCAGACAAACTGTCTCAGGTGGAGCCAGGGGAGGCTTCTTGGGAAA			

FIGURE 129B

				TATACACCCACAAAACCCCAGTCCCAATGCCCTTTTTCCCAAGAAGCCTCCCCTGGCTCC[GA]CCTGAGACAGTTTGTCTGCCTGTGTGTCTGCCACCAGGTGTAG			
11830	IS	[GA]		GTACTGCCCACAGCAAG	ctg17286	19	
11839	I		A	GTCTTGCCCTCGTCGGTCTCTTTCTGTTCCT			
11839	P	A	A	CGCGCCGAGGACCAGCACCGAAGCY			
11839	P	G	A	ATGACGTGGCAGACGCCAGCACCGAAGY			
11839	T	A	A	CTCGGCTTCGGTGCTGGTGGAACAGAAAGAGACCGACGAGGGCAAGACGG			
11839	T	G	A	CTCGGCTTCGGTGCTGGCGGAACAGAAAGAGACCGACGAGGGCAAGACGG			
				AGACGCTCTATGCTGCTTGTTCATTTAACCGTCTTGCCCTCGTCGGTCTCTTTCTGTTCC[AG]CCAGCACCGAAGCCGAGGAGCGTGGGGATGGTGCGATCCTGA			
11839	IS	[AG]		GCACTTCCCTATCTCCAG	ctg_na	NA	
11846	I		A	ACTCTGTTAGCCGCGTATTGAGTTCAGTGGTGTCT			
11846	P	G	A	ATGACGTGGCAGACGTTGATGTCAAACCATCCTY			
11846	P	A	A	CGCGCCGAGGATTGATGTCAAACCATCCTATY			
11846	T	G	A	GGAAATAGGATGGTTTGACATCAACGACACCACTGAACTCAATACGCGGCTAACAGAGTAG			
11846	T	A	A	GGAAATAGGATGGTTTGACATCAATGACACCACTGAACTCAATACGCGGCTAACAGAGTAG			
				GAAAGTGTGACATTAACAATGTACCTACTCTGTTAGCCGCGTATTGAGTTCAGTGGTGTC[GA]TTGATGTCAAACCATCCTATTTCCTGTCGTAGAATAGCATGAAA			
11846	IS	[GA]		AAACTTCTGCCTAATT	ctg19247	7	
11866	I		A	GTCTCAAAACAACAAGAACAAGAACAAGAAAGCTTCAGGATAGAACGT			
11866	P	G	A	ATGACGTGGCAGACGGTCCTTCCTGAATTCCY			
11866	P	A	A	CGCGCCGAGGAGTCCTTCCTGAATTCCCY			
11866	T	G	A	TGAAGGGAATTCAGGAAGGACCCGTTCTATCCTGAAGCTTTCTTGTTCTTGTTCTTGTTGTTTTGAGACGG			
11866	T	A	A	TGAAGGGAATTCAGGAAGGACTCGTTCTATCCTGAAGCTTTCTTGTTCTTGTTCTTGTTGTTTTGAGACGG			
				AGAGCAAGACTCCGTCTCAAAACAACAAGAACAAGAACAAGAAAGCTTCAGGATAGAACG[GA]GTCCTTCCTGAATTCCCTTCAAACAGTTTTAACCTTAAAAGCAT			
11866	IS	[GA]		ACAAGTCATCCTTCCA	ctg16400	17	
11867	I		A	CTGGGCTTACAGGCGTGAGCCACCT			
11867	P	A	A	CGCGCCGAGGATGCCCAGCCATGAY			
11867	P	G	A	ATGACGTGGCAGACGTGCCCAGCCATGAY			
11867	T	A	A	GTTATCATGGCTGGGCATGGTGGCTCACGCCTGTAAGCCCAGCA			
11867	T	G	A	GTTATCATGGCTGGGCACGGTGGCTCACGCCTGTAAGCCCAGCA			
				CCTCAGGTGATCCACCTGCCTCGGCCTCCCAAAGTGCTGGGCTTACAGGCGTGAGCCACC[AG]TGCCCAGCCATGATAACCACTCTTGAACACCCACACGTATTC			
11867	IS	[AG]		ATGACAGTCTACATGCAG	MULTIPLE	MULTIPLE	
11868	I		S	TGTTTGCGTATCGCTCCATCCTCATTGTCTCCAA			
11868	P	G	S	ATGACGTGGCAGCCACTCGGTCTCTTTTCTTTY			
11868	P	A	S	CGCGCCGAGGTACTCGGTCTCTTTTCTTTCY			
11868	T	G	S	AGAAGAAAGAAAAGAGACCGAGTGTGGAGACAATGAGGATGGAGCGATACGCAAACAGA			
11868	T	A	S	AGAAGAAAGAAAAGAGACCGAGTATGGAGACAATGAGGATGGAGCGATACGCAAACAGA			
				TGTCACTTGAATAATAAACAGAAACTAAGAATTGTTTAGAAGAAAGAAAAGAGACCGAGT[GA]TGGAGACAATGAGGATGGAGCGATACGCAAACAGAAAAACAGA			
11868	IS	[GA]		GAGGCAAAAACTGAAAA	ctg13103	9	
11934	I		S	GTCATGCATCTTTTCTTTACCAGCTGTGTGACCTAGGACT			
11934	P	T	S	CGCGCCGAGGATGTCACTTTGCTTCTCCY			
11934	P	C	S	ATGACGTGGCAGACGTGTCACTTTGCTTCTCCY			
11934	T	T	S	TTTTGGAGAAGCAAAGTGACATGTCCTAGGTCACACAGCTGGTAAAGAAAAGATGCATGACTA			
11934	T	C	S	TTTTGGAGAAGCAAAGTGACACGTCCTAGGTCACACAGCTGGTAAAGAAAAGATGCATGACTA			
				AGGGCTTTATAATCCCCAGTTAACGGTAAGGCAATTGGGTTTTGGAGAAGCAAAGTGACA[TC]GTCCTAGGTCACACAGCTGGTAAAGAAAAGATGCATGACTAGA			
11934	IS	[TC]		ACCTAGGTATATATGAT	ctg16820	16	
12218	I		A	GCTGACAAGCGATGCTGCAGAAGCGGT			
12218	P	A	A	CGCGCCGAGGAAACGTAGCAGGAAGTCTY			
12218	P	C	A	ATGACGTGGCAGACCAACGTAGCAGGAAGTCY			
12218	T	A	A	GCCGAGACTTCCTGCTACGTTTCCGCTTCTGCAGCATCGCTTGTCAGCGA			
12218	T	C	A	GCCGAGACTTCCTGCTACGTTGCCGCTTCTGCAGCATCGCTTGTCAGCGA			
				GTCACTCCTTCCATAAGGACCAGTCCTACTGGTCGCTGACAAGCGATGCTGCAGAAGCGG[AC]AACGTAGCAGGAAGTCTCGGCCATACTTGCGTCTCTCTGTAA			
12218	IS	[AC]		ACCAGGAAAAGACATATA	ctg13206	14	
12238	I		S	CCGCACAGAGCATGCTGTCCGAGATGTGC			
12238	P	A	S	CGCGCCGAGGTCCAGGGTATGCCCY			
12238	P	C	S	ATGACGTGGCAGACGCCAGGGTATGCCCY			
12238	T	A	S	CACTGGGCATACCCTGGACACATCTCGGACAGCATGCTCTGTGCGGGC			
12238	T	C	S	CACTGGGCATACCCTGGCCACATCTCGGACAGCATGCTCTGTGCGGGC			
				ACTGCAGTGTGCCAACATCAGCATCCTGGAGAACAAACTCTGTCACTGGGCATACCCTGG[AC]CACATCTCGGACAGCATGCTCTGTGCGGGCCTGTGGGAGGG			
12238	IS	[AC]		GGGCCGAGGTTCCTGCCAG	ctg5212	19	
12241	I		A	CAGGACAAGCTGTCTGGTCACTCCACCCT			
12241	P	C	A	CGCGCCGAGGCCTTTTGGCCTTTTACCTY			
12241	P	G	A	ATGACGTGGCAGACGCTTTTGGCCTTTTACCTY			
12241	T	C	A	TTGGAGGTAAAAGGCCAAAAGGGGGTGGAGTGACCAGACAGCTTGTCCTGGG			
12241	T	G	A	TTGGAGGTAAAAGGCCAAAAGCGGGTGGAGTGACCAGACAGCTTGTCCTGGG			
				CTTATGCCTGTACTCAGCTAGGTGTCAAACCCCAGGACAAGCTGTCTGGTCACTCCACCC[CG]CTTTTGGCCTTTTACCTCCAAAATAGAAGCTGTTTAATGGAGT			
12241	IS	[CG]		AACTGACTTTTTACAGC	ctg14583	1	
12247	I		S	GTAGCTGCACTCAGCCGCCTCCGA			
12247	P	A	S	CGCGCCGAGGTGGTAAAGTCTGGGTGAAY			
12247	P	G	S	ATGACGTGGCAGACCGGTAAAGTCTGGGTGAY			
12247	T	A	S	GGCCTTCACCCAGACTTTACCACGGAGGCGGCTGAGTGCAGCTACAG			
12247	T	G	S	GGCCTTCACCCAGACTTTACCGCGGAGGCGGCTGAGTGCAGCTACAG			
				AACAGTAAGAGGAGCTGCTCTCCTATCTGCACTCACCCAGGCCTTCACCCAGACTTTACC[AG]CGGAGGCGGCTGAGTGCAGCTACAGCTAGGTCCGCGTCCCT			
12247	IS	[AG]		CACTCTTTTCATCTTCTGC	ctg16820	16	PMM2
12248	I		S	TGATTTGTCATAAACGCTCCTATTGCAGGCTGT			
12248	P	C	S	ATGACGTGGCAGACGGTCTAGTCCTTCTTGACTY			
12248	P	T	S	CGCGCCGAGGAGTCTAGTCCTTCTTGACTTY			
12248	T	C	S	CACAAAGTCAAGAAGGACTAGACCCAGCCTGCAATAGGAGCGTTTATGACAAATCACA			
12248	T	T	S	CACAAAGTCAAGAAGGACTAGACTCAGCCTGCAATAGGAGCGTTTATGACAAATCACA			
				TCTCCAATTGTGAATACTTCCTCAAGCCTTCTCCTTCCACAAAGTCAAGAAGGACTAGAC[CT]CAGCCTGCAATAGGAGCGTTTATGACAAATCACAAATTTGAAAC			
12248	IS	[CT]		CCTTTGGCTATCATAT	ctg18743	16	
12256	I		A	CCCAAGCACACAGAATGTGTGGAAGGAGCCA			
12256	P	T	A	CGCGCCGAGGTGTCCGGGGATACAGY			
12256	P	C	A	ATGACGTGGCAGACCGTCCGGGGATACAGY			
12256	T	T	A	CCTCCTGTATCCCCGGACAGGCTCCTTCCACACATTCTGTGTGCTTGGGGG			
12256	T	C	A	CCTCCTGTATCCCCGGACGGGCTCCTTCCACACATTCTGTGTGCTTGGGGG			
				ATGATGCCATCTGGACCCCCACCCCCCGCCCCCAAGCACACAGAATGTGTGGAAGGAGCC[TC]GTCCGGGGATACAGGAGGGCGGCCACACACCAGTGGCTGC			
12256	IS	[TC]		TCTGGGACTCGCCTCGCCTG			
12303	I		A	TGTGTGCCATCATGCCTGGCTAATTTTTGTATTTTTGGTAAAGAA			
12303	P	T	A	CGCGCCGAGGTGGGGCTTTGCCAY			
12303	P	C	A	ATGACGTGGCAGACCGGGGCTTTGCCAY			
12303	T	T	A	AACGTGGCAAAGCCCCATCTTTACCAAAAATACAAAAATTAGCCAGGCATGATGGCACACACC			
12303	T	C	A	AACGTGGCAAAGCCCCGTCTTTACCAAAAATACAAAAATTAGCCAGGCATGATGGCACACACC			
				TAGCTGGGACTACAGGTGTGTGCCATCATGCCTGGCTAATTTTTGTATTTTTGGTAAAGA[TC]GGGGCTTTGCCACGTTGGCCAGGCTGGTCTCGAACTCCTGAC			
12303	IS	[TC]		CTCAGGTCATCTGCCCGC	MULTIPLE	MULTIPLE	
12306	I		S	TCCCAGCAGGGAAAAGGGACATAAGGATGACAAAAC			
12306	P	T	S	CGCGCCGAGGACGGTCAGGGTCCTY			
12306	P	A	S	ATGACGTGGCAGACTCGGTCAGGGTCCTY			
12306	T	T	S	AGGCAGGACCCTGACCGTTTTTGTCATCCTTATGTCCCTTTTCCCTGCTGGGAAC			
12306	T	A	S	AGGCAGGACCCTGACCGATTTTGTCATCCTTATGTCCCTTTTCCCTGCTGGGAAC			

FIGURE 129B

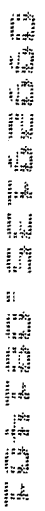
				GACTAATCTTGCTCCTCCATGGATGGGGTTAAAAAGTCCTTGGAGGCAGGACCCTGACCG[TA]TTTTGTCATCCTTATGTCCCTTTTCCCTGCTGGGAACCTAGTA			
12306	IS	[TA]		GATGCTCAAAAAATAAT	ctg16105	5	
12314	I		A	CCTAAAGCATACAAAATATCTGTTAGGGGCTCAGAATAGCACAGTTATT			
12314	P	G	A	ATGACGTGGCAGACGATACAAAAATGGATTTTCTCTCTY			
12314	P	A	A	CGCGCCGAGGAATACAAAAATGGATTTTCTCTCTCY			
12314	T	G	A	AAAAGAGAGAGAAAATCCATTTTTTGTATCATAACTGTGCTATTCTGAGCCCCTAACAGATATTTTGTATGCTTTAGGGC			
12314	T	A	A	AAAAGAGAGAGAAAATCCATTTTTTGTATTATAACTGTGCTATTCTGAGCCCCTAACAGATATTTTGTATGCTTTAGGGC			
				CCAGTCATATGCCCTAAAGCATACAAAATATCTGTTAGGGGCTCAGAATAGCACAGTTAT[GA]ATACAAAAATGGATTTTCTCTCTCTTTTAATAATGTTAAGAAGAC			
12314	IS	[GA]		ATCACATACCTGACT	ctg21fin5	21	
12344	I		S	CCTTCTGGCCAAAGGCTGGGATGCAAT			
12344	P	T	S	CGCGCCGAGGAATAGCCTTGGTGAGCAY			
12344	P	C	S	ATGACGTGGCAGACGATAGCCTTGGTGAGCY			
12344	T	T	S	ATAATGCTCACCAAGGCTATTTTGCATCCCAGCCTTTGGCCAGAAGGAG			
12344	T	C	S	ATAATGCTCACCAAGGCTATCTTGCATCCCAGCCTTTGGCCAGAAGGAG			
				CAAGGTTCTTTCAGGTGGAGCCCTGAATTTCTTTCCATCAATAATGCTCACCAAGGCTAT[TC]TTGCATCCCAGCCTTTGGCCAGAAGGAGCCCCTCACTGATATC			
12344	IS	[TC]		CCCAAACTCCCCACCAT	ctg22fin4	22	
12361	I		S	GTTCATGAGTTCGTCTGGGCATTTTGTATCAATTTTTCTCGAGAAT			
12361	P	G	S	ATGACGTGGCAGACCTAGGTTGTAGCTGGTGTY			
12361	P	T	S	CGCGCCGAGGATAGGTTGTAGCTGGTGTY			
12361	T	G	S	ATGCACACCAGCTACAACCTAGTTCTCGAGAAAAATTGATACAAAATGCCCAGACGAACTCATGAACAC			
12361	T	T	S	ATGCACACCAGCTACAACCTATTTCTCGAGAAAAATTGATACAAAATGCCCAGACGAACTCATGAACAC			
				TCTGATAAAATTTTTCAGAACCAAAAGATACACTGAGTCATGCACACCAGCTACAACCTA[GT]TTCTCGAGAAAAATTGATACAAAATGCCCAGACGAACTCATGAAC			
12361	IS	[GT]		ACCGTAAGAATCAGA	ctg16128	1	
12396	I		A	GGGTTAAGGGGCCACCTGTAGCACACTTCC			
12396	P	A	A	CGCGCCGAGGATCTGAAACCGGAATGAATTY			
12396	P	T	A	ATGACGTGGCAGACTTCTGAAACCGGAATGAATTY			
12396	T	A	A	GATGAATTCATTCCGGTTTCAGATGAAGTGTGCTACAGGTGGCCCCTTAACCCAC			
12396	T	T	A	GATGAATTCATTCCGGTTTCAGAAGAAGTGTGCTACAGGTGGCCCCTTAACCCAC			
				TTTAGCCTCCTGAGCAGTGTTTCCAGCCAGTGGGTTAAGGGGCCACCTGTAGCACACTTC[AT]TCTGAAACCGGAATGAATTCATCCACAATCGTTTTTTTATTGTG			
12396	IS	[AT]		ATCAACAGATAGAACC	ctg22fin4	22	
12431	I		A	TCAGGTAAACCTCATATACATAGAACTGATTGTTCAAGACTGTA			
12431	P	T	A	CGCGCCGAGGTGGTGGACTTTCTCTAAAGAY			
12431	P	C	A	ATGACGTGGCAGACCGGTGGACTTTCTCTAAAGY			
12431	T	T	A	AAACTCTTTAGAGAAAGTCCACCAACAGTCTTGAACAATCAGTTCTATGTATATGAGGTTTACCTGAAT			
12431	T	C	A	AAACTCTTTAGAGAAAGTCCACCGACAGTCTTGAACAATCAGTTCTATGTATATGAGGTTTACCTGAAT			
				GGTGCTGAAAGGAACATTCAGGTAAACCTCATATACATAGAACTGATTGTTCAAGACTGT[TC]GGTGGACTTTCTCTAAAGAGTTTGCACTAGCATAAAGCTTTATA			
12431	IS	[TC]		TGTTGGAGCAGGGTAA	ctg13446	1	
12458	I		A	GCAATTATTTTAGGGCGAAGAGTTTTATTGTCTGTTGCATA			
12458	P	C	A	ATGACGTGGCAGACCTTCCTAATGGGTTGGGY			
12458	P	T	A	CGCGCCGAGGTTTCCTAATGGGTTGGGAY			
12458	T	C	A	CGTCTCCCAACCCATTAGGAAGATGCAACAGACAATAAAACTCTTCGCCCTAAAATAATTGCTT			
12458	T	T	A	CGTCTCCCAACCCATTAGGAAAATGCAACAGACAATAAAACTCTTCGCCCTAAAATAATTGCTT			
				AATTGAGCTGAAATGTTCAAGCAATTATTTTAGGGCGAAGAGTTTTATTGTCTGTTGCAT[CT]TTCCTAATGGGTTGGGAGACGTGTGGCAGAAAAACTGGGAGGT			
12458	IS	[CT]		TGAGGGTGTCCCATTGG	ctg22fin4	22	
12480	I		S	CTCTGGAGCTGCTCTCTCTGTTGGATCCTCAGA			
12480	P	G	S	ATGACGTGGCAGACCGTCTTCCCCACCTGY			
12480	P	A	S	CGCGCCGAGGTGTCTTCCCCACCTGY			
12480	T	G	S	CCGCCAGGTGGGGAAGACGCTGAGGATCCAACAGAGAGAGCAGCTCCAGAGAG			
12480	T	A	S	CCGCCAGGTGGGGAAGACACTGAGGATCCAACAGAGAGAGCAGCTCCAGAGAG			
				GATCCGTGAAAGCCGCCGCTGCCGTCCCAATGTGACCACTTGCCGCCAGGTGGGGAAGAC[GA]CTGAGGATCCAACAGAGAGAGCAGCTCCAGAGAGCTCGACT			
12480	IS	[GA]		GCAGCAGTTCTTCAGGAGG	ctg15478	1	DJ434O14.3
12506	I		A	TGCTCTGTCAGGGTGGAGCAGCTGAGTATA			
12506	P	T	A	CGCGCCGAGGTATCAGCTGAGCAAAGATGY			
12506	P	C	A	ATGACGTGGCAGACCATCAGCTGAGCAAAGATY			
12506	T	T	A	TTCTCATCTTTGCTCAGCTGATAATACTCAGCTGCTCCACCCTGACAGAGCAGA			
12506	T	C	A	TTCTCATCTTTGCTCAGCTGATGATACTCAGCTGCTCCACCCTGACAGAGCAGA			
				GCCAGTTTGGGGACTGACTGAGTCCCCTTTCTGCTCTGTCAGGGTGGAGCAGCTGAGTAT[TC]ATCAGCTGAGCAAAGATGAGAATAAAAGGTGGGAAATAGGAG			
12506	IS	[TC]		GTGGAAGCAGAAGTGGTT	ctg15665	20	
12511	I		S	CTGTACCATTCAAGAAAACTGTCATGTTACAGAAAAAGAAATTACCGGAAACTTTA			
12511	P	G	S	ATGACGTGGCAGACCCTTTTTCTAGAAACATTAACATGAY			
12511	P	A	S	CGCGCCGAGGTCTTTTTCTAGAAACATTAACATGAAY			
12511	T	G	S	CAATTTCATGTTAATGTTTCTAGAAAAAGGAAAGTTTCCGGTAATTTCTTTTTCTGTAACATGACAGTTTTCTTGAATGGTACAGAA			
12511	T	A	S	CAATTTCATGTTAATGTTTCTAGAAAAAGAAAAGTTTCCGGTAATTTCTTTTTCTGTAACATGACAGTTTTCTTGAATGGTACAGAA			
				AACAATTCAACCAGCTTATCAGGTACAACCTCAATTTCATGTTAATGTTTCTAGAAAAAG[GA]AAAGTTTCCGGTAATTTCTTTTTCTGTAACATGACAGTTTTCTTGA			
12511	IS	[GA]		ATGGTACAGAACAT	ctg12559	6	
12518	I		A	GGTTTACAAAACAGGCAGCAGGTTAGATACAGCCCA			
12518	P	T	A	CGCGCCGAGGTCAGGCTTTCATTTGCTGY			
12518	P	C	A	ATGACGTGGCAGACCCAGGCTTTCATTTGCTY			
12518	T	T	A	GGATCAGCAAATGAAAGCCTGAGGGCTGTATCTAACCTGCTGCCTGTTTTGTAAACCAA			
12518	T	C	A	GGATCAGCAAATGAAAGCCTGGGGGCTGTATCTAACCTGCTGCCTGTTTTGTAAACCAA			
				CTGAGACTGGGTTCCAATCATACTTGGTTTACAAAACAGGCAGCAGGTTAGATACAGCCC[TC]CAGGCTTTCATTTGCTGATCCCTAATTTGTTGATTCATGTAAGA			
12518	IS	[TC]		AAGGGCTATAAGAAAA	ctg12559	6	
12520	I		S	GCCCCACTGGTGAGATCTTTGCAGGCTT			
12520	P	C	S	ATGACGTGGCAGACGCTGGCCTTGCGY			
12520	P	T	S	CGCGCCGAGGACTGGCCTTGCGTAY			
12520	T	C	S	CATCTACGCAAGGCCAGCAGCCTGCAAAGATCTCACCAGTGGGGCCT			
12520	T	T	S	CATCTACGCAAGGCCAGTAGCCTGCAAAGATCTCACCAGTGGGGCCT			
				CGGAAACCCATCAGCACCCAAAGTTTCACCTGTATGCAGTGCCCATCTACGCAAGGCCAG[CT]AGCCTGCAAAGATCTCACCAGTGGGGCCTCTGGAAATAACCC			
12520	IS	[CT]		AGGCTCAGAAACTAGAAG	ctg18715	1	
12537	I		A	GCCTGGGTGATAGAGTGAGACTCCATCTAAATCAATCAATCAATAAAAGTAAATT			
12537	P	A	A	CGCGCCGAGGAAAATTACAAATGGAACATTAATTGCY			
12537	P	G	A	ATGACGTGGCAGACGAAATTACAAATGGAACATTAATTGCY			
12537	T	A	A	TATAGCAATTAATGTTCCATTTGTAATTTTATTTACTTTTATTGATTGATTGATTTAGATGGAGTCTCACTCTATCACCCAGGCTA			
12537	T	G	A	TATAGCAATTAATGTTCCATTTGTAATTTCATTTACTTTTATTGATTGATTGATTTAGATGGAGTCTCACTCTATCACCCAGGCTA			
				ACTCTAGCCTGGGTGATAGAGTGAGACTCCATCTAAATCAATCAATCAATAAAAGTAAAT[AG]AAATTACAAATGGAACATTAATTGCTATAACCCGCCCTCAGTGAG			
12537	IS	[AG]		GCTAGCATGAGCCAC	ctg13446	1	
12541	I		A	GGCGGCTGTGGGTGGGCCA			
12541	P	T	A	CGCGCCGAGGTGGGCGGGTCACY			
12541	P	C	A	ATGACGTGGCAGACCGGGCGGGTCACY			
12541	T	T	A	CAGGGTGACCCGCCCAGGCCCACCCACAGCCGCCCA			
12541	T	C	A	CAGGGTGACCCGCCCGGGCCCACCCACAGCCGCCCA			
				CTCCCGCGCCAGCCCAAAATCACCCACCTGCAACGACAGATGGGCGGCTGTGGGTGGGCC[TC]GGGCGGGTCACCCTGGGATGGGCCACTCGGAGGGGGGCT			
12541	IS	[TC]		CACCTTGAGGATGCCGGCGTG	ctg16829	1	
12585	I		S	CCCATTCATGGACACGCTGTGCTGATCCTCT			
12585	P	C	S	ATGACGTGGCAGACGGAGGTCACGTGACTTY			
12585	P	T	S	CGCGCCGAGGAGAGGTCACGTGACTTCY			
12585	T	C	S	CCAGGAAGTCACGTGACCTCCGAGGATCAGCACAGCGTGTCCATGAATGGGCC			
12585	T	T	S	CCAGGAAGTCACGTGACCTCTGAGGATCAGCACAGCGTGTCCATGAATGGGCC			

FIGURE 129B

				AAAGGGGCCCAAGGCCTGGCTCCCGCATGCTGGGGTCCAGCCAGGAAGTCACGTGACCTC[CT]GAGGATCAGCACAGCGTGTCCATGAATGGGCCTCATTCTCG		
12585	IS	[CT]		GCCCTCTGCGGGGCCTGGA	ctg12723	20
12606	I		S	TCTGTACACTGAATTTGTCTTCCACCAATTTTAGAATGCTGATTCTTTTCAA		
12606	P	G	S	ATGACGTGGCAGACCGGGTGACATCCTAAATTTY		
12606	P	A	S	CGCGCCGAGGTGGGTGACATCCTAAATTTAAY		
12606	T	G	S	TTCCTTAAATTTAGGATGTCACCCGTGAAAAGAATCAGCATTCTAAAATTGGTGGAAGACAAATTCAGTGTACAGACC		
12606	T	A	S	TTCCTTAAATTTAGGATGTCACCCATGAAAAGAATCAGCATTCTAAAATTGGTGGAAGACAAATTCAGTGTACAGACC		
				GCACTATAAGCATTTACACTTATGATTCTTGGTTAATTCCTTAAATTTAGGATGTCACCC[GA]TGAAAAGAATCAGCATTCTAAAATTGGTGGAAGACAAATTCAGTG		
12606	IS	[GA]		TACAGACCTAGACAT	ctg16537	20
12610	I		S	ACCACAAGGGCGACAAGACCAGCTTCTCT		
12610	P	T	S	CGCGCCGAGGATCGCGGTTCGGCY		
12610	P	C	S	ATGACGTGGCAGACGTCGCGGTTCGGCY		
12610	T	T	S	CCTGGCCGAACCGCGATGAGAAGCTGGTCTTGTCGCCCTTGTGGTGG		
12610	T	C	S	CCTGGCCGAACCGCGACGAGAAGCTGGTCTTGTCGCCCTTGTGGTGG		
				GAGTGTGCCGTGCCAGGTGTCCAGGTGCACGCCAATGATGGAGCCCTGGCCGAACCGCGA[TC]GAGAAGCTGGTCTTGTCGCCCTTGTGGTGGAGGAGGCCTG		
12610	IS	[TC]		GGGGCAGCCAGGGTCGCAGT	MULTIPLE	MULTIPLE
12612	I		A	CACCTCCACCCCCACGCCAGCT		
12612	P	G	A	ATGACGTGGCAGACGCCTTCAAGGGTCAAGY		
12612	P	A	A	CGCGCCGAGGACCTTCAAGGGTCAAGTY		
12612	T	G	A	CCTGACTTGACCCTTGAAGGCGCTGGCGTGGGGGTGGAGGTGGG		
12612	T	A	A	CCTGACTTGACCCTTGAAGGTGCTGGCGTGGGGGTGGAGGTGGG		
				TGACAGGGAAGCCGGTGTTGCTGGTGGGCTTCCCCTTCCCACCTCCACCCCCACGCCAGC[GA]CCTTCAAGGGTCAAGTCAGGCAGAGAGGAACAGCTGTCTCA		
12612	IS	[GA]		GGAAGACAGAAATAGCAGA	ctg18466	16
12725	I		A	GCCCTTTTCTAGCTTACAGCCACCCAGCCT		
12725	P	A	A	CGCGCCGAGGACTTTCTCTCTGTGTCTTCAY		
12725	P	G	A	ATGACGTGGCAGACGCTTTCTCTCTGTGTCTTCY		
12725	T	A	A	CCTGTGAAGACACAGAGAGAAAGTGGCTGGGTGGCTGTAAGCTAGAAAAGGGCCC		
12725	T	G	A	CCTGTGAAGACACAGAGAGAAAGCGGCTGGGTGGCTGTAAGCTAGAAAAGGGCCC		
				ACGGTTCTGGAGGCTGGAAGTCTGAGTGAGGGCCCTTTTCTAGCTTACAGCCACCCAGCC[AG]CTTTCTCTCTGTGTCTTCACAGGGTGGAGAGAGAACATGCTG		
12725	IS	[AG]		TCTGTCTGGTGTCTTTCT	ctg17341	14
12730	I		S	TCCTTTCCTTACCTGGTTGCTTATGTGAGAGCCCT		
12730	P	T	S	CGCGCCGAGGACCCTTCTTCAAACCAACY		
12730	P	C	S	ATGACGTGGCAGACGCCCTTCTTCAAACCAAY		
12730	T	T	S	ACCCGTTGGTTTGAAGAAGGGTGGGCTCTCACATAAGCAACCAGGTAAGGAAAGGAAG		
12730	T	C	S	ACCCGTTGGTTTGAAGAAGGGCGGGCTCTCACATAAGCAACCAGGTAAGGAAAGGAAG		
				TAGAGCTGCCATTTGTGAACACCCTTCCTTTATGATTCCACCCGTTGGTTTGAAGAAGGG[TC]GGGCTCTCACATAAGCAACCAGGTAAGGAAAGGAAGCTGCCCA		
12730	IS	[TC]		TGAACACGTCCACATCC	ctg13655	10
12731	I		A	GTGTGCACAGTGAGAAAGCACCTTGCAAACACT		
12731	P	G	A	ATGACGTGGCAGACGCAAGTCTCTTGGGCY		
12731	P	A	A	CGCGCCGAGGACAAGTCTCTTGGGCAY		
12731	T	G	A	TTGTTGCCCAAGAGACTTGCGTGTTTGCAAGGTGCTTTCTCACTGTGCACACGT		
12731	T	A	A	TTGTTGCCCAAGAGACTTGTGTGTTTGCAAGGTGCTTTCTCACTGTGCACACGT		
				AGGCAAGCGGAAAGGAGTATGTGCCCACGTGTGCACAGTGAGAAAGCACCTTGCAAACAC[GA]CAAGTCTCTTGGGCAACAAACACAACCTCTTGCTGCCCACTG		
12731	IS	[GA]		AGGCCCGAGCAGCAGATT	ctg13655	10
12734	I		A	GACTTCAATCAAGGGCCTCTGGCATTCTCCCT		
12734	P	A	A	CGCGCCGAGGAAGGAAGGGCTTCTTATTTCY		
12734	P	G	A	ATGACGTGGCAGACGAGGAAGGGCTTCTTATTTCY		
12734	T	A	A	GAAGGAAATAAGAAGCCCTTCCTTGGGAGAATGCCAGAGGCCCTTGATTGAAGTCAA		
12734	T	G	A	GAAGGAAATAAGAAGCCCTTCCTCGGGAGAATGCCAGAGGCCCTTGATTGAAGTCAA		
				ACTGGGAGGAGGTCATCCCTTATGTCCTTGACTTCAATCAAGGGCCTCTGGCATTCTCCC[AG]AGGAAGGGCTTCTTATTTCCTTCCAGCCATGACATTAGAGGAG		
12734	IS	[AG]		GTGTGTGATGGGGTCAG	ctg13655	10
12735	I		S	TCAGCCATTTTAGAAAATAACCAGTATTTCAGGTCACCAACACATGATC		
12735	P	T	S	CGCGCCGAGGACCACTTAACAAATCTAGAAATGY		
12735	P	A	S	ATGACGTGGCAGACTCCACTTAACAAATCTAGAAATGY		
12735	T	T	S	TCTCCATTTCTAGATTTGTTAAGTGGTATCATGTGTTGGTGACCTGAAATACTGGTTATTTTCTAAAATGGCTGAAA		
12735	T	A	S	TCTCCATTTCTAGATTTGTTAAGTGGAATCATGTGTTGGTGACCTGAAATACTGGTTATTTTCTAAAATGGCTGAAA		
				CTGGGGACAAGCAAATTTTACATAAATTAGACCATCTCCATTTCTAGATTTGTTAAGTGG[TA]ATCATGTGTTGGTGACCTGAAATACTGGTTATTTTCTAAAATGGC		
12735	IS	[TA]		TGAAATGCTGGATCA	ctg16537	20
12741	I		S	GCAGGGGGAGCATGGGAAAATCATCCCATTTTCC		
12741	P	T	S	CGCGCCGAGGACTGGTCCTTGGTTTCTY		
12741	P	A	S	ATGACGTGGCAGACTCTGGTCCTTGGTTTCTY		
12741	T	T	S	GGGGAGAAACCAAGGACCAGTGAAAATGGGATGATTTTCCCATGCTCCCCCTGCAA		
12741	T	A	S	GGGGAGAAACCAAGGACCAGAGAAAATGGGATGATTTTCCCATGCTCCCCCTGCAA		
				CTTATAAGCAAGTGTTATTATTATTCTCCCACTTTACAGAGGGGAGAAACCAAGGACCAG[TA]GAAAATGGGATGATTTTCCCATGCTCCCCCTGCAAGTTAGAGGC		
12741	IS	[TA]		AGAGCTGAAAATCCTG	ctg16586	20
12751	I		A	GGTAAGGCACTGTGCTAGGCACACAAACCTTT		
12751	P	A	A	CGCGCCGAGGATGAAGATGAATGGAATGGTY		
12751	P	G	A	ATGACGTGGCAGACGTGAAGATGAATGGAATGGTY		
12751	T	A	A	AAGAACCATTCCATTCATCTTCATAAGGTTTGTGTGCCTAGCACAGTGCCTTACCTA		
12751	T	G	A	AAGAACCATTCCATTCATCTTCACAAGGTTTGTGTGCCTAGCACAGTGCCTTACCTA		
				ATTTAATTGATATTTGAGTGCCTACTTTAGGTAAGGCACTGTGCTAGGCACACAAACCTT[AG]TGAAGATGAATGGAATGGTTCTTGCCTTAAAATAGCTTTCAATTA		
12751	IS	[AG]		ACCAAGGAAACTGTA	ctg53	14
12753	I		A	CGAGCAGATTCGCAGCAAGATTTAGTGAGCTAAAATTGTCTA		
12753	P	C	A	ATGACGTGGCAGACCCTTAATAATGGGAGGGTTTY		
12753	P	T	A	CGCGCCGAGGTCTTAATAATGGGAGGGTTTTTY		
12753	T	C	A	TAAAAAAAACCCTCCCATTATTAAGGAGACAATTTTAGCTCACTAAATCTTGCTGCGAATCTGCTCGAA		
12753	T	T	A	TAAAAAAAACCCTCCCATTATTAAGAAGACAATTTTAGCTCACTAAATCTTGCTGCGAATCTGCTCGAA		
				GATGGGAACTTAAGAGATTCGAGCAGATTCGCAGCAAGATTTAGTGAGCTAAAATTGTCT[CT]CTTAATAATGGGAGGGTTTTTTTTATACACATGGTCCTAAATGT		
12753	IS	[CT]		AAAATATATAAAAGTA	ctg53	14
12754	I		A	GCCTCCCATCTGTGCATCCCAGGCAA		
12754	P	T	A	CGCGCCGAGGTCTATTCCCTTTCCAGGAAY		
12754	P	C	A	ATGACGTGGCAGACCCTATTCCCTTTCCAGGAY		
12754	T	T	A	TATTTTCCTGGAAAGGGAATAGATGCCTGGGATGCACAGATGGGAGGCAG		
12754	T	C	A	TATTTTCCTGGAAAGGGAATAGGTGCCTGGGATGCACAGATGGGAGGCAG		
				TATATAAAAGTATACAATGAATAGCCTCCAGGCCTGCCTCCCATCTGTGCATCCCAGGCA[TC]CTATTCCCTTTCCAGGAAAATAATTTATCAGTGTATTGGGTATC		
12754	IS	[TC]		CTTCCTGAGATACTCT	ctg53	14
12766	I		A	GTCAAAAAGAATCTACAAAGCCCCCTCTCTTCCC		
12766	P	G	A	ATGACGTGGCAGACGTTGGGTAAAATCCAAGGAY		
12766	P	T	A	CGCGCCGAGGTTTGGGTAAAATCCAAGGACY		
12766	T	G	A	ATGGGTCCTTGGATTTTACCCAACGGAAGAGAGGGGGCTTTGTAGATTCTTTTTGACAG		
12766	T	T	A	ATGGGTCCTTGGATTTTACCCAAAGGAAGAGAGGGGGCTTTGTAGATTCTTTTTGACAG		
				TCTAGGAAACCTCTATGATTCTACTCTGTCAAAAAGAATCTACAAAGCCCCCTCTCTTCC[GT]TTGGGTAAAATCCAAGGACCCATTGGTACCTGATCCATTTTGAG		
12766	IS	[GT]		AAACACAAGCCCTGGG	ctg21fin2	21
12771	I		S	AGCCCGAAGATGAAGACTAAAAGCTGCCTCCTC		
12771	P	C	S	ATGACGTGGCAGACGTTCTTCCATGGTGGAAGY		
12771	P	A	S	CGCGCCGAGGTTTCTTCCATGGTGGAAGY		
12771	T	C	S	TAGGCTTCCACCATGGAAGAACAGGAGGCAGCTTTTAGTCTTCATCTTCGGGCTTA		
12771	T	A	S	TAGGCTTCCACCATGGAAGAAAAGGAGGCAGCTTTTAGTCTTCATCTTCGGGCTTA		

FIGURE 129B

				TTCATTCTTTCGCTGGTTTCAGGAGAAAGGTTGTAAAAATAGGCTTCCACCATGGAAGAA[CA]AGGAGGCAGCTTTTAGTCTTCATCTTCGGGCTTAAAAATCGGAT			
12771	IS	[CA]		TGATTTAACCTTATAG	ctg21fn2	21	
12772	I		A	CCCCAGCCGAGACACCCAAGCCTTAT			
12772	P	A	A	CGCGCCGAGGACACGTTTATAATGTGACAGTY			
12772	P	G	A	ATGACGTGGCAGACGCACGTTTATAATGTGACAGY			
12772	T	A	A	TACCACTGTCACATTATAAACGTGTTAAGGCTTGGGTGTCTCGGCTGGGGAG			
12772	T	G	A	TACCACTGTCACATTATAAACGTGCTAAGGCTTGGGTGTCTCGGCTGGGGAG			
				TGATTCCCTCCCGCCCTGGGCGCTGCCTGACTGCTCCCCAGCCGAGACACCCAAGCCTTA[AG]CACGTTTATAATGTGACAGTGGTACGGGGTGCCACGCAGTG			
12772	IS	[AG]		TTTCCAGGAGCGCCGGGGG	ctg21fn2	21	
12778	I		A	ACTGTCTAAAGAGAAGCAGAGAGAACACTACCTGAA			
12778	P	C	A	ATGACGTGGCAGACCTCTCTGACAGCATTAAGCY			
12778	P	T	A	CGCGCCGAGGTTCTCTGACAGCATTAAGCY			
12778	T	C	A	AGTGGCTTAATGCTGTCAGAGAGTCAGGTAGTGTTCTCTCTGCTTCTCTTTAGACAGTTA			
12778	T	T	A	AGTGGCTTAATGCTGTCAGAGAATCAGGTAGTGTTCTCTCTGCTTCTCTTTAGACAGTTA			
				ATTTATGGATGGGGAGAATAAAGTAACTGTCTAAAGAGAAGCAGAGAGAACACTACCTGA[CT]TCTCTGACAGCATTAAGCCACTCTCTTCCAGTCTGTTCTTGGTC			
12778	IS	[CT]		CAGCTGCATTCTCGTT	ctg21fn2	21	
12780	I		A	CCTGGAGTTCCCAGAGGCACGTGCT			
12780	P	G	A	ATGACGTGGCAGACGGGCTCCACTCAAAACY			
12780	P	A	A	CGCGCCGAGGAGGCTCCACTCAAAACTY			
12780	T	G	A	GTCTAGTTTTGAGTGGAGCCCGCACGTGCCTCTGGGAACTCCAGGCA			
12780	T	A	A	GTCTAGTTTTGAGTGGAGCCTGCACGTGCCTCTGGGAACTCCAGGCA			
				GACCCCCGTTGTCTGAGCTCCTCTTTCTCAGCCCTGCCTGGAGTTCCCAGAGGCACGTGC[GA]GGCTCCACTCAAAACTAGACAATGAGATTTAGCCCTTCCAGC			
12780	IS	[GA]		AGTTCTGGGGTGTAAGGG	ctg21fn2	21	
12782	I		A	GGGCATCTTTGTGCAAATGGGTCGCGGT			
12782	P	G	A	ATGACGTGGCAGACGAAATCTGGGTCTTCGATGY			
12782	P	A	A	CGCGCCGAGGAAAATCTGGGTCTTCGATGY			
12782	T	G	A	GTGACATCGAAGACCCAGATTTCCCGCGACCCATTTGCACAAAGATGCCCGC			
12782	T	A	A	GTGACATCGAAGACCCAGATTTCCGCGACCCATTTGCACAAAGATGCCCGC			
				ACCTTCTTTTTGCTACCTGCCCCTCTTTTAAAGCGGGCATCTTTGTGCAAATGGGTCGCGG[GA]AAATCTGGGTCTTCGATGTCACTGATCAGTGTAATCTGAACTAA			
12782	IS	[GA]		CCTAATGGACGTTGCT	ctg21fn2	21	
12790	I		S	TCTGTTGCTCAACAATACTGTTTTTTTCCTTTAGTAGTTTACCAA			
12790	P	A	S	CGCGCCGAGGTAAGGGAATTTCCTTTAAGTCAY			
12790	P	G	S	ATGACGTGGCAGACCAAGGGAATTTCCTTTAAGTCY			
12790	T	A	S	TGGTTGACTTAAAGGAAATTCCCTTATGGTAAACTACTAAAGGAAAAAAACAGTATTGTTGAGCAACAGATG			
12790	T	G	S	TGGTTGACTTAAAGGAAATTCCCTTGTGGTAAACTACTAAAGGAAAAAAACAGTATTGTTGAGCAACAGATG			
				TTTCTTTGTCTCTTGTAGAAATCAAGGAGAAATCATGGTTGACTTAAAGGAAATTCCCTT[AG]TGGTAAACTACTAAAGGAAAAAAACAGTATTGTTGAGCAACAGAT			
12790	IS	[AG]		GGTCATATTAGGCTT	ctg21fn2	21	BACH1
12793	I		A	TCCAAGCCCATTTGTTTCTTTGGCATTTTTCAAATCT			
12793	P	G	A	ATGACGTGGCAGACGTTTCTCTTTCTGTGATATCAATGY			
12793	P	A	A	CGCGCCGAGGATTTTCTCTTTCTGTGATATCAATGY			
12793	T	G	A	TAATCATTGATATCACAGAAAGAGAAACGATTTGAAAAATGCCAAAGAAACAAATGGGCTTGGACA			
12793	T	A	A	TAATCATTGATATCACAGAAAGAGAAATGATTTGAAAAATGCCAAAGAAACAAATGGGCTTGGACA			
				TTAGTCCATAGTGATTACAATATGTCCAAGCCCATTTGTTTCTTTGGCATTTTTCAAATC[GA]TTTCTCTTTCTGTGATATCAATGATTACATAATCTTATTTATCATTC			
12793	IS	[GA]		TAAGGGCCTGGGT	ctg21fn2	21	
12800	I		S	TTCATGCTTGCAATTCTAGTTATCTGATTTGAGTCTTTCTCAAAATAC			
12800	P	A	S	CGCGCCGAGGTGACTGGTATTTATTTATAGGATAGTY			
12800	P	C	S	ATGACGTGGCAGACGGACTGGTATTTATTTATAGGATAGTY			
12800	T	A	S	CAGCACTATCCTATAAATAAATACCAGTCATATTTTGAGAAAGACTCAAATCAGATAACTAGAATTGCAAGCATGAAGT			
12800	T	C	S	CAGCACTATCCTATAAATAAATACCAGTCCTATTTTGAGAAAGACTCAAATCAGATAACTAGAATTGCAAGCATGAAGT			
				ACAATCACTTTCACTCCAAGAACGTTGGCTACAGCACTATCCTATAAATAAATACCAGTC[AC]TATTTTGAGAAAGACTCAAATCAGATAACTAGAATTGCAAGCATG			
12800	IS	[AC]		AAGTCAGTTCTAAAT	ctg21fn2	21	
12930	I		A	GGAAATGGCTGTTTAGGGTGCTTTCAAAGGAGCTA			
12930	P	T	A	CGCGCCGAGGTGAAGGATATTGTCAGTCTTTAGY			
12930	P	C	A	ATGACGTGGCAGACCGAAGGATATTGTCAGTCTTTY			
12930	T	T	A	ACCCCTAAAGACTGACAATATCCTTCAAGCTCCTTTGAAAGCACCCTAAACAGCCATTTCCAT			
12930	T	C	A	ACCCCTAAAGACTGACAATATCCTTCGAGCTCCTTTGAAAGCACCCTAAACAGCCATTTCCAT			
				TACAATCCGCATCCAACTATTAAAATGGAAATGGCTGTTTAGGGTGCTTTCAAAGGAGCT[TC]GAAGGATATTGTCAGTCTTTAGGGGTTGGGCTGGATGCCGAGG			
12930	IS	[TC]		TAAAAGTTCTTTTTGCT	ctg12616	18	TYMS
12945	I		S	TGGGGCCTTGAGTGATAGGAAAGGGGTCTT			
12945	P	C	S	ATGACGTGGCAGACGTGATGGGTAGATAGTGTGY			
12945	P	T	S	CGCGCCGAGGATGATGGGTAGATAGTGTGGY			
12945	T	C	S	CCAACCACACTATCTACCCATCACAGACCCCTTTCCTATCACTCAAGGCCCCAGC			
12945	T	T	S	CCAACCACACTATCTACCCATCATAGACCCCTTTCCTATCACTCAAGGCCCCAGC			
				TAGGGGAGGGACTTTGTTCAGGAAGAAATCCGTGTCTCCAACCACACTATCTACCCATCA[CT]AGACCCCTTTCCTATCACTCAAGGCCCCAGCCTGGCACAAATG			
12945	IS	[CT]		GATGCATACAGTTCTGT	ctg15441	5	GPX3
12946	I		A	GTGTGTGTGTGCATGGGTGTACAGCCACT			
12946	P	A	A	CGCGCCGAGGATGTCTACCTATGTGTCTTTCY			
12946	P	G	A	ATGACGTGGCAGACGTGTCTACCTATGTGTCTTTCY			
12946	T	A	A	CCCAGAAAGACACATAGGTAGACATGTGGCTGTACACCCATGCACACACACACAA			
12946	T	G	A	CCCAGAAAGACACATAGGTAGACACGTGGCTGTACACCCATGCACACACACACAA			
				GTTTACACACATGCCTACAGGTATGCGTGATTGTGTGTGTGTGCATGGGTGTACAGCCAC[AG]TGTCTACCTATGTGTCTTTCTGGGAATGTGTACCATCTGTGTG			
12946	IS	[AG]		CCTGCAGCTGTGTAGTG	ctg15441	5	GPX3
13075	I		S	TGGATGAGCAGGGCCTTCTTGAGGTTGCA			
13075	P	G	S	ATGACGTGGCAGACCAGCTGCTTCGTCCAY			
13075	P	A	S	CGCGCCGAGGTAGCTGCTTCGTCCAGY			
13075	T	G	S	CTATCTGGACGAAGCAGCTGGCAACCTCAAGAAGGCCCTGCTCATCCAGG			
13075	T	A	S	CTATCTGGACGAAGCAGCTAGCAACCTCAAGAAGGCCCTGCTCATCCAGG			
				GGCTCCCAGAACATCACCTACCACTGCAAGAACAGCATTGCCTATCTGGACGAAGCAGCT[GA]GCAACCTCAAGAAGGCCCTGCTCATCCAGGGCTCCAATGACG			
13075	IS	[GA]		TGGAGATCCGGGCAGAGG	ctg36	12	COL2A1
13176	I		A	CCAGCTTTCTCCCAAGTTTCAGGGCCCAAC			
13176	P	T	A	CGCGCCGAGGTATTCTCAAATCACAGGATTCCY			
13176	P	G	A	ATGACGTGGCAGACGATTCTCAAATCACAGGATTCY			
13176	T	T	A	ACAGGGAATCCTGTGATTTGAGAATATTGGGCCCTGAAACTTGGGAGAAAGCTGGGG			
13176	T	G	A	ACAGGGAATCCTGTGATTTGAGAATCTTGGGCCCTGAAACTTGGGAGAAAGCTGGGG			
				AGAATTACTTTGCCACCAATCCCATGGCCCCCCAGCTTTCTCCCAAGTTTCAGGGCCCAA[TG]ATTCTCAAATCACAGGATTCCCTGTCTATGGCAGGGAACTGGA			
13176	IS	[TG]		GGCTCTAGGAGGAGATC	ctg16775	19	
13190	I		A	GCAAATGGGAAAGATGGCTGGTTCTGTGAGACCT			
13190	P	G	A	ATGACGTGGCAGACGGGCTGTTCCTGGTY			
13190	P	A	A	CGCGCCGAGGAGGCTGTTCCTGGTCY			
13190	T	G	A	CTGGGACCAGGAACAGCCCGGTCTCACAGAACCAGCCATCTTTCCCATTTGCAG			
13190	T	A	A	CTGGGACCAGGAACAGCCTGGTCTCACAGAACCAGCCATCTTTCCCATTTGCAG			
				GATATGTGTGCAAGAGATCAGTAATCTGCAAATGGGAAAGATGGCTGGTTCTGTGAGACC[GA]GGCTGTTCCTGGTCCCAGCTAAGACATTGCAGTACCCACCTC			
13190	IS	[GA]		CCAAAGGGAGTACACCCT	ctg12325	11	
13193	I		S	AGGCTTCCTAATTAGAACTCCTCTTAATCCACATAAGGGTGATGAAAAATA			
13193	P	G	S	ATGACGTGGCAGACCGAATTTCTTTACTCATGGTCY			
13193	P	A	S	CGCGCCGAGGTGAATTTCTTTACTCATGGTCCY			
13193	T	G	S	CTGGGGACCATGAGTAAAGAAATTCGATTTTTCATCACCCTTATGTGGATTAAGAGGAGTTCTAATTAGGAAGCCTTG			
13193	T	A	S	CTGGGGACCATGAGTAAAGAAATTCAATTTTTCATCACCCTTATGTGGATTAAGAGGAGTTCTAATTAGGAAGCCTTG			



				CCAAAGATATAAACAGTTTTCTCCCAACCTTGATTCTGGGGACCATGAGTAAAGAAATTC[GA]ATTTTTCATCACCCTTATGTGGATTAAGAGGAGTTCTAATTAGGA			
13193	IS	[GA]		AGCCTTGGGAAGGGG	ctg14210	12	
13203	I		A	GCCGACTCTCAGACGTTCAGATTTATGTAGACAAGGTGAT			
13203	P	A	A	CGCGCCGAGGAACATGTCTGTGAGAAGTTTY			
13203	P	G	A	ATGACGTGGCAGACGACATGTCTGTGAGAAGTTTY			
13203	T	A	A	TGGAAAACTTCTCACAGACATGTTTCACCTTGTCTACATAAATCTGAACGTCTGAGAGTCGGCCC			
13203	T	G	A	TGGAAAACTTCTCACAGACATGTCTCACCTTGTCTACATAAATCTGAACGTCTGAGAGTCGGCCC			
13203	IS	[AG]		CCTGGGTCTACTATCACATGGGCCGACTCTCAGACGTTCAGATTTATGTAGACAAGGTGA[AG]ACATGTCTGTGAGAAGTTTTCCAGTCCCTATAGAATTGAGAGT CCAGAGCTTGACTGTGA	ctg13284	10	
13204	I		A	GCCCTGCCAACTGAGGGACCTGCT			
13204	P	G	A	ATGACGTGGCAGACGAGGGCCGCCCY			
13204	P	A	A	CGCGCCGAGGAAGGGCCGCCCY			
13204	T	G	A	GAGCGGGCGGCCCTCGCAGGTCCCTCAGTTGGCAGGGCTG			
13204	T	A	A	GAGCGGGCGGCCCTTGCAGGTCCCTCAGTTGGCAGGGCTG			
13204	IS	[GA]		AGGAAGCTCTTTGCCCCACAGCAGATTCTGCAATGCAGCCCTGCCAACTGAGGGACCTGC[GA]AGGGCCGCCCGCTCCCTTCCTGCCACTGCCGCCTACTGGAC GCTGCCCTGCATGCTGCCC	ctg17280	17	TK1
13231	I		S	CGCAATTCTCCCATCCCACTTTTACCTTCCAAGACT			
13231	P	G	S	CGCGCCGAGGCATCGACAGAACCACCY			
13231	P	C	S	ATGACGTGGCAGACGATCGACAGAACCACCAY			
13231	T	G	S	CTGGTGGTGGTTCTGTCGATGGTCTTGGAAGGTAAAAGTGGGATGGGAGAATTGCGGA			
13231	T	C	S	CTGGTGGTGGTTCTGTCGATCGTCTTGGAAGGTAAAAGTGGGATGGGAGAATTGCGGA			
13231	IS	[GC]		CTCCGGCCTCGCCATGAGGCTCTTCCTGTCGCTCCCGGTCCTGGTGGTGGTTCTGTCGAT[GC]GTCTTGGAAGGTAAAAGTGGGATGGGAGAATTGCGGAGTTG GAGATTTGGAAGAGTGAAG	ctg16775	19	
13245	I		S	CCTGTAAGCACCTATGTGGATGGGACGTTGTGC			
13245	P	C	S	ATGACGTGGCAGACGCTGGGAATGACAGTACY			
13245	P	A	S	CGCGCCGAGGTCTGGGAATGACAGTACTY			
13245	T	C	S	AAGCAGTACTGTCATTCCCAGCCACAACGTCCCATCCACATAGGTGCTTACAGGTG			
13245	T	A	S	AAGCAGTACTGTCATTCCCAGACACAACGTCCCATCCACATAGGTGCTTACAGGTG			
13245	IS	[CA]		GGCCTCCTGCATGCCTGGTGGTGCCTCAAGCAGCGTGCCAAGCAGTACTGTCATTCCCAG[CA]CACAACGTCCCATCCACATAGGTGCTTACAGGTGACTCTTAA CTTCCTAACCCCACAAAT	ctg14747	2	
13247	I		A	GTGAGTTCAGATCCGCCCAACAGTGGTGACA			
13247	P	C	A	ATGACGTGGCAGACCGCCCACCTCCTCY			
13247	P	T	A	CGCGCCGAGGTGCCCACCTCCTCTY			
13247	T	C	A	GACCAGAGGAGGTGGGCGGTCACCACTGTTGGGCGGATCTGAACTCACTC			
13247	T	T	A	GACCAGAGGAGGTGGGCAGTCACCACTGTTGGGCGGATCTGAACTCACTC			
13247	IS	[CT]		ACTCCTCCCTCAGTCCCCACTGCACTCAGAGTGAGTTCAGATCCGCCCAACAGTGGTGAC[CT]GCCCACCTCCTCTGGTCCACAATGGCAGGAGATGGACAGGA GCTTTGGCCACACACAGAG	ctg14747	2	
13253	I		G	GGGATTTGAAATGTTCTTGCTCACTGAAAACTAGTAGGAGTTCTGTAA			
13253	P	G	S	ATGACGTGGCAGACCGGTCATCCCACAAGY			
13253	P	A	S	CGCGCCGAGGTGGTCATCCCACAAGGY			
13253	T	G	S	GGATCCTTGTGGGATGACCGTACAGAACTCCTACTAGTTTTCAGTGAGCAAGAACATTTCAAATCCCTC			
13253	T	A	S	GGATCCTTGTGGGATGACCATACAGAACTCCTACTAGTTTTCAGTGAGCAAGAACATTTCAAATCCCTC			
13253	IS	[GA]		AGGAACATGGGGACACTCATCTGTCAGAGGTCCCGTGGCCTGGATCCTTGTGGGATGACC[GA]TACAGAACTCCTACTAGTTTTCAGTGAGCAAGAACATTTCAAA TCCCTCTGAGGCTGTCC	ctg17326	12	
13254	I		A	CCTAGCCCCAGGGGGCACCAA			
13254	P	C	A	ATGACGTGGCAGACCGTTGAAGGTGCTGAAAY			
13254	P	T	A	CGCGCCGAGGTGTTGAAGGTGCTGAAAGY			
13254	T	C	A	ACACCTTTCAGCACCTTCAACGTGGTGCCCCCTGGGGCTAGGGT			
13254	T	T	A	ACACCTTTCAGCACCTTCAACATGGTGCCCCCTGGGGCTAGGGT			
13254	IS	[CT]		TGGTATGTGTCCCACCAGGGGGATGTCTCCAGGGCCCAACCCTAGCCCCAGGGGGCACCA[CT]GTTGAAGGTGCTGAAAGGTGTCTCTGTTCTCAGGCACAGGG TGTGTGAAAGGAGGTGGGT	ctg17326	12	
13256	I		A	GGAGGTGGGTAAGGACCGATTGGATACTCCAAAAAAT			
13256	P	G	A	ATGACGTGGCAGACGTGGAAAGGGTTACCTCTY			
13256	P	A	A	CGCGCCGAGGATGGAAAGGGTTACCTCTY			
13256	T	G	A	CTCCAGAGGTAACCCTTTCCACTTTTTTGGAGTATCCAATCGGTCCTTACCCACCTCCTT			
13256	T	A	A	CTCCAGAGGTAACCCTTTCCATTTTTTTGGAGTATCCAATCGGTCCTTACCCACCTCCTT			
13256	IS	[GA]		TTCTCAGGCACAGGGTGTGTGAAAGGAGGTGGGTAAGGACCGATTGGATACTCCAAAAAA[GA]TGGAAAGGGTTACCTCTGGAGAATAGGATTTGCTTCCTAGAA GAATCTACTGTAAATTAC	ctg17326	12	
13269	I		A	ACCATTTCTAGCCTCAGTCACAGAATCATCTTCTCCTTTCCA			
13269	P	C	A	ATGACGTGGCAGACCTCACCTGATACCCAGCY			
13269	P	T	A	CGCGCCGAGGTTCACCTGATACCCAGCY			
13269	T	C	A	TCAAGCTGGGTATCAGGTGAGGGAAAGGAGAAGATGATTCTGTGACTGAGGCTAGAAATGGTCT			
13269	T	T	A	TCAAGCTGGGTATCAGGTGAAGGAAAGGAGAAGATGATTCTGTGACTGAGGCTAGAAATGGTCT			
13269	IS	[CT]		CCACCCCATTTTATCCCAGACCATTTCTAGCCTCAGTCACAGAATCATCTTCTCCTTTCC[CT]TCACCTGATACCCAGCTTGAAGTCCCTGCTGGTGGGGAGTAACC TGGAGCTGAACGCAGA			
13284	I		A	CCGTTGCAGGATAAAGCCAAGATGAAACTCCCCA			
13284	P	C	A	ATGACGTGGCAGACCTACTTCTGGCTCTTCTATTTY			
13284	P	T	A	CGCGCCGAGGTTACTTCTGGCTCTTCTATTTGY			
13284	T	C	A	GCCCCAAATAGAAGAGCCAGAAGTAGGGGGAGTTTCATCTTGGCTTTATCCTGCAACGGAG			
13284	T	T	A	GCCCCAAATAGAAGAGCCAGAAGTAAGGGGAGTTTCATCTTGGCTTTATCCTGCAACGGAG			
13284	IS	[CT]		GTGTGTGTCAATGACAAACTGTGTTCTCCGTTGCAGGATAAAGCCAAGATGAAACTCCCC[CT]TACTTCTGGCTCTTCTATTTGGGGCAGTTTCTGCTCTTCATCTA AGTAAGTGTTTTTTGC	ctg15944	11	
13287	I		A	GCCGGGATGAATCCTGGGGCTTCCTA			
13287	P	T	A	CGCGCCGAGGTCTTCCCTTTTAAACTGGAGY			
13287	P	C	A	ATGACGTGGCAGACCCTTCCCTTTTAAACTGGAY			
13287	T	T	A	GACCCTCCAGTTTAAAAGGGAAGAAGGAAGCCCCAGGATTCATCCCGGCTG			
13287	T	C	A	GACCCTCCAGTTTAAAAGGGAAGGAAGGAAGCCCCAGGATTCATCCCGGCTG			
13287	IS	[TC]		TTGGGCTGGGTGAGGGTGGGGAAGAGGGTCTGGACAGCCGGGATGAATCCTGGGGCTTCCT[TC]CTTCCCTTTTAAACTGGAGGGTCTTGGAAGAGAGAGACAAC TTAAGGGTACAGCCTAGTT	ctg15285	12	
13294	I		S	GGGGCGCCTCTTTTGTTTGAAAGCCGAT			
13294	P	T	S	CGCGCCGAGGATCTGCGATCGCTGCY			
13294	P	C	S	ATGACGTGGCAGACGTCTGCGATCGCTGY			
13294	T	T	S	CCCCGCAGCGATCGCAGATTCGGCTTTCAAACAAAAGAGGCGCCCCGG			
13294	T	C	S	CCCCGCAGCGATCGCAGACTCGGCTTTCAAACAAAAGAGGCGCCCCGG			
13294	IS	[TC]		CACCCCGGGGCGGACCCGCCCTGGGACCTGGAAGCGCCCCAGCCCCGCAGCGATCGCAGA[TC]TCGGCTTTCAAACAAAAGAGGCGCCCCGGGGGGTGGGAC CGGGACCTCACCCGGTCCTCG			
13296	I		S	CTCCCGCCTCAGTCAGCACAATGTCACAC			
13296	P	A	S	CGCGCCGAGGTCTCGCCACTGGATGY			
13296	P	C	S	ATGACGTGGCAGACGCTCGCCACTGGAY			
13296	T	A	S	CTGCCATCCAGTGGCGAGATGTGACATTGTGCTGACTGAGGCGGGAGGC			
13296	T	C	S	CTGCCATCCAGTGGCGAGCTGTGACATTGTGCTGACTGAGGCGGGAGGC			
13296	IS	[AC]		CGCCCCTCAGCCCTTGGATGCCAGACCTGGGGGAAGAGGGAGCTGCCATCCAGTGGCGAG[AC]TGTGACATTGTGCTGACTGAGGCGGGAGGCCAGCTGTGGA GGGCCTCGGGGGAGAGCTGG	ctg16279	17	
13297	I		A	GGCATGAGGCACCTGCAGACTGAGATGAT			
13297	P	G	A	ATGACGTGGCAGACGCTGAGTGGAGCGAY			
13297	P	A	A	CGCGCCGAGGACTGAGTGGAGCGAGY			
13297	T	G	A	CGGCCTCGCTCCACTCAGCTCATCTCAGTCTGCAGGTGCCTCATGCCTG			
13297	T	A	A	CGGCCTCGCTCCACTCAGTTCATCTCAGTCTGCAGGTGCCTCATGCCTG			

FIGURE 129B

				TGTGGGGAAGCCCCAGGGCACAGTGGGGACCAGGCATGAGGCACCTGCAGACTGAGATGA[GA]CTGAGTGGAGCGAGGCCGGGGGACCCTATCAAGACCTTTC			
13297	IS	[GA]		CCCTCCAGCTGGAGCCAGAC	ctg16279	17	
13328	I		S	GGTCAGAAAATATTGCAGTGGAACTAGAGAGTACTTGGA			
13328	P	G	S	ATGACGTGGCAGACCGTTTGTTGAGTGAACCCY			
13328	P	A	S	CGCGCCGAGGTGTTTGTTGAGTGAACCCY			
13328	T	G	S	AACTGGGTTCACTCAACAAACGCCAAGTACTCTCTAGTTCCACTGCAATATTTTCTGACCAT			
13328	T	A	S	AACTGGGTTCACTCAACAAACACCAAGTACTCTCTAGTTCCACTGCAATATTTTCTGACCAT			
				GAATCTTCAGTTCTCCAAGTGTTGCTTGAATGAACTGGGTTCACTCAACAAAC[GA]CCAAGTACTCTCTAGTTCCACTGCAATATTTTCTGACCATCATTTTGATGTC			
13328	IS	[GA]		TCAGCTTT	ctg13446	1	
13333	I		S	CGCGATGGTCTCATACTGAGCCCGGATT			
13333	P	C	S	ATGACGTGGCAGACGTCCCTGAGGGCGY			
13333	P	T	S	CGCGCCGAGGATCCCTGAGGGCGY			
13333	T	C	S	CTGCCGCCCTCAGGGACATCCGGGCTCAGTATGAGACCATCGCGGC			
13333	T	T	S	CTGCCGCCCTCAGGGATATCCGGGCTCAGTATGAGACCATCGCGGC			
				ACAGCAGGTCCAGGTGGAGATGGACATGTCTAAGCCAGACCTCACTGCCGCCCTCAGGGA[CT]ATCCGGGCTCAGTATGAGACCATCGCGGCTAAGAACATTTCT			
13333	IS	[CT]		GAAGCTGAGGAGTGGTAC	ctg15649	2	DES
13337	I		A	CCTTATTCTTTTCTGAGTACTGGCCCCCCTGAGAT			
13337	P	C	A	CGCGCCGAGGCTACAGTAGAAGCTATGAATCTTY			
13337	P	G	A	ATGACGTGGCAGACGTACAGTAGAAGCTATGAATCTTY			
13337	T	C	A	GGGGAAGATTCATAGCTTCTACTGTAGTCTCAGGGGGGCCAGTACTCAGAAAAGAATAAGGGA			
13337	T	G	A	GGGGAAGATTCATAGCTTCTACTGTACTCTCAGGGGGGCCAGTACTCAGAAAAGAATAAGGGA			
				AAAAGCAGACATTCTCTATCAGGGTCCCTTATTCTTTTCTGAGTACTGGCCCCCCTGAGA[CG]TACAGTAGAAGCTATGAATCTTCCCCCTACAAAAAAGCACTCAT			
13337	IS	[CG]		GTACCTTCAAACAAAA	ctg14877	1	
13338	I		S	GTGCAATAATCTTTATTTCAGAGTTTAATCAAATAAATAAACAAATTTTAAGACTTTCATA			
13338	P	A	S	CGCGCCGAGGTATTTAGGTCAAAGAGAAAAGACAY			
13338	P	G	S	ATGACGTGGCAGACCATTTAGGTCAAAGAGAAAAGACY			
13338	T	A	S	AACCTGTCTTTTCTCTTTGACCTAAATAATGAAAGTCTTAAAATTTGTTTATTTATTTGATTAAACTCTGAAATAAAGATTATTGCAC			
13338	T	G	S	AACCTGTCTTTTCTCTTTGACCTAAATGATGAAAGTCTTAAAATTTGTTTATTTATTTGATTAAACTCTGAAATAAAGATTATTGCAC			
				CATCTGTACAAGCTCTTATTGTATTGTAGCTAAAACCTGTCTTTTCTCTTTGACCTAAAT[AG]ATGAAAGTCTTAAAATTTGTTTATTTATTTGATTAAACTCTGAAATA			
13338	IS	[AG]		AAGATTATTGCAC	ctg13446	1	
13340	I		A	AGGTCATCTGGTACAGCCCTTCCTTCCCTTTTTTC			
13340	P	T	A	CGCGCCGAGGTTTTTTTTTTTGTGAGACAAGGTY			
13340	P	A	A	ATGACGTGGCAGACATTTTTTTTTTGTGAGACAAGGTY			
13340	T	T	A	AGAGACCTTGTCTCACAAAAAAAAAAAAAAAAAAAGGGAAGGAAGGGCTGTACCAGATGACCTCT			
13340	T	A	A	AGAGACCTTGTCTCACAAAAAAAAAATAAAAAAAGGGAAGGAAGGGCTGTACCAGATGACCTCT			
				ATCAAAAAGTTGGAAAGCAGGTCAGAGGTCATCTGGTACAGCCCTTCCTTCCCTTTTTTTTA[T]TTTTTTTTTTGTGAGACAAGGTCTCTCTCTGTTGCCCAGGCTGG			
13340	IS	[TA]		AGTGGCGCAAACACAG			
13341	I		A	CTTGTCCTGGGGCAGTTAATGTGCAGGTTTCAA			
13341	P	T	A	CGCGCCGAGGTGATGGAGCCTGGAGY			
13341	P	C	A	ATGACGTGGCAGACCGATGGAGCCTGGAGY			
13341	T	T	A	CACCCTCCAGGCTCCATCATGAAACCTGCACATTAACTGCCCCAGGACAAGGG			
13341	T	C	A	CACCCTCCAGGCTCCATCGTGAAACCTGCACATTAACTGCCCCAGGACAAGGG			
				TGGGCTTGGCCCAGGGTGGGGAAAAGCCCTTGTCCTGGGGCAGTTAATGTGCAGGTTTCA[TC]GATGGAGCCTGGAGGGTGTTGACTGGAGAAGGGTCTCTGG			
13341	IS	[TC]		GGTGGGCTTGGCTTGGCTGG	ctg15649	2	
13344	I		S	CATGAAAAGTCAGATGAGTGGAAGCTGCTCTGCAA			
13344	P	G	S	ATGACGTGGCAGACCATCAATCTCCTTCTACCCY			
13344	P	A	S	CGCGCCGAGGTATCAATCTCCTTCTACCCCY			
13344	T	G	S	ATTTGGGGTAGAAGGAGATTGATGTGCAGAGCAGCTTCCACTCATCTGACTTTTCATGGG			
13344	T	A	S	ATTTGGGGTAGAAGGAGATTGATATGCAGAGCAGCTTCCACTCATCTGACTTTTCATGGG			
				CCAGAAATGAGGGGAGCTTGAGCTTTCGTTGGCTTCTATTTGGGGTAGAAGGAGATTGAT[GA]TGCAGAGCAGCTTCCACTCATCTGACTTTTCATGGGTCTCTG			
13344	IS	[GA]		GGAACAATTTCCAAATGG	ctg12567	16	
13345	I		S	TGCATGGCATCACCTCCCCTTAACAAAACAGAAAACA	9		
13345	P	G	S	ATGACGTGGCAGACCTGAGGCTGACAAAAGTTAY			
13345	P	A	S	CGCGCCGAGGTTGAGGCTGACAAAAGTTAGY			
13345	T	G	S	CAGACTAACTTTTGTCAGCCTCAGGTTTTCTGTTTTGTTAAGGGGAGGTGATGCCATGCAGC			
13345	T	A	S	CAGACTAACTTTTGTCAGCCTCAAGTTTTCTGTTTTGTTAAGGGGAGGTGATGCCATGCAGC			
				ATAAGCGTTTTGTCGCCAGTAGCCATGGCCCTTTGGGCAGACTAACTTTTGTCAGCCTCA[GA]GTTTTCTGTTTTGTTAAGGGGAGGTGATGCCATGCAGCCTACC			
13345	IS	[GA]		TCATGTAAATCTCAGAG	ctg12567	16	
13347	I		A	CCAGGCACAACCCTGGAGCTTGGGATTT			
13347	P	C	A	CGCGCCGAGGCTCACCTCAGTCCTCACY			
13347	P	G	A	ATGACGTGGCAGACGTCACCTCAGTCCTCAY			
13347	T	C	A	GACAGTGAGGACTGAGGTGAGAATCCCAAGCTCCAGGGTTGTGCCTGGAA			
13347	T	G	A	GACAGTGAGGACTGAGGTGACAATCCCAAGCTCCAGGGTTGTGCCTGGAA			
				ACGCAGCCAACTTGCCGCCTCAGTCCTTAAATTCCAGGCACAACCCTGGAGCTTGGGATT[CG]TCACCTCAGTCCTCACTGTCTCATCCCCATTCACGGCTCCCG			
13347	IS	[CG]		CCTCCGCCGCCCACAGCC	ctg15966	12	
13349	I		A	CAAGTCCATACAATTTGTGGGGTTCAGAAAAGAGGGCT			
13349	P	G	A	ATGACGTGGCAGACGGTGTTGTTTAGCTTACTACCY			
13349	P	A	A	CGCGCCGAGGAGTGTTGTTTAGCTTACTACCY			
13349	T	G	A	ACCTGGTAGTAAGCTAAACAACACCGCCCTCTTTTCTGAACCCCACAAATTGTATGGACTTGCC			
13349	T	A	A	ACCTGGTAGTAAGCTAAACAACACTGCCCTCTTTTCTGAACCCCACAAATTGTATGGACTTGCC			
				CAACCTGGCCTCTTCTCCCCAGGCAAGTCCATACAATTTGTGGGGTTCAGAAAAGAGGGC[GA]GTGTTGTTTAGCTTACTACCAGGTGCTGAGGCTGCTGTTTGC			
13349	IS	[GA]		CCACCTAACCTGGCTCTC	ctg15966	12	
13378	I		A	GCGGGGCTGGTGAGAGAACAAGATCTCTTCA			
13378	P	T	A	CGCGCCGAGGTGTGTTCAAGGCAGACTY			
13378	P	C	A	ATGACGTGGCAGACCGTGTTCAAGGCAGACY			
13378	T	T	A	AGGAAGTCTGCCTTGAACACAGAAGAGATCTTGTTCTCTCACCAGCCCCGCAC			
13378	T	C	A	AGGAAGTCTGCCTTGAACACGGAAGAGATCTTGTTCTCTCACCAGCCCCGCAC			
				TTTCCTCGGGCCTACACTGTCTAGGATTGTGCGGGGCTGGTGAGAGAACAAGATCTCTTC[TC]GTGTTCAAGGCAGACTTCCTGCCCCCTGCACCCTGCTCTCTC			
13378	IS	[TC]		CCAGGCCTTGAGGTCAGT	ctg12691	2	GNLY
13381	I		A	GCCTCCTTACTCCCCCATCTCCCAGCC			
13381	P	A	A	CGCGCCGAGGATGGGAAAGTGTGGAGAY			
13381	P	T	A	ATGACGTGGCAGACTTGGGAAAGTGTGGAGAY			
13381	T	A	A	CAATTCTCCACACTTTCCCATGCTGGGAGATGGGGGAGTAAGGAGGCAG			
13381	T	T	A	CAATTCTCCACACTTTCCCAAGCTGGGAGATGGGGGAGTAAGGAGGCAG			
				TTGGAGACAGCTTCCCCCAGGATATATCAAAGCTGCCTCCTTACTCCCCCATCTCCCAGC[AT]TGGGAAAAGTGTGGAGAATTGAGCAGATGGACTTTAGCTAGAAA			
13381	IS	[AT]		TGTTTGAGAAATACTGA	ctg12691	2	
13389	I		A	CCTCCCACCTCCCTTCAGAATAAGTCTAGACTCTTATCGT			
13389	P	C	A	ATGACGTGGCAGACCTTTCACCAAGCCTGCY			
13389	P	A	A	CGCGCCGAGGATTTCACCAAGCCTGCY			
13389	T	C	A	GGGCGCAGGCTTGGTGAAAGCGATAAGAGTCTAGACTTATTCTGAAGGGAGGTGGGAGGGG			
13389	T	A	A	GGGCGCAGGCTTGGTGAAATCGATAAGAGTCTAGACTTATTCTGAAGGGAGGTGGGAGGGG			
				CTTCTGTTCCTCTCCTCAGCCCCTCCCACCTCCCTTCAGAATAAGTCTAGACTCTTATCG[CA]TTTCACCAAGCCTGCGCCCAGCATCCCTGCACAGGGATTGTTA			
13389	IS	[CA]		GGACAGCCTGACGCCCT	ctg15064	7	
13391	I		A	ACCCTGTGCCTGGCAAAAGTCCAGGTA			
13391	P	T	A	CGCGCCGAGGTGCTTCTCAGGATTTGTGY			
13391	P	C	A	ATGACGTGGCAGACCGCTTCTCAGGATTTGTGY			
13391	T	T	A	GTGCCACAAATCCTGAGAAGCAACCTGGACTTTTGCCAGGCACAGGGTCC			
13391	T	C	A	GTGCCACAAATCCTGAGAAGCGACCTGGACTTTTGCCAGGCACAGGGTCC			

FIGURE 129B

				GCTCTGGTGACCAGGACAAGGGAGGGAAGGAAGGACCCTGTGCCTGGCAAAAGTCCAGGT[TC]GCTTCTCAGGATTTGTGGCACCTTCTGACTGTCAAACTGTTC			
13391	IS	[TC]		TTGTCAATCTCACAGGCT	ctg_na	NA	
13394	I		S	GAACTCCCGTGTACAAGTGTCTTTACTGCTTTTATTTGCTCAC			
13394	P	T	S	CGCGCCGAGGACAAAATGCACATCTCATATAAAAY			
13394	P	A	S	ATGACGTGGCAGACTCAAAATGCACATCTCATATAAAAY			
13394	T	T	S	TTATTTTTATATGAGATGTGCATTTTGTTGAGCAAATAAAAGCAGTAAAGACACTTGTACACGGGAGTTCTG			
13394	T	A	S	TTATTTTTATATGAGATGTGCATTTTGATGAGCAAATAAAAGCAGTAAAGACACTTGTACACGGGAGTTCTG			
				TGTTTGTGTTTGTGGTGTGTGCATGCTCCTCATTTATTTTTATATGAGATGTGCATTTTG[TA]TGAGCAAATAAAAGCAGTAAAGACACTTGTACACGGGAGTTCTG			
13394	IS	[TA]		CAAGTGGGAGTAAATG	ctg_na	NA	
13415	I		S	ATCCCTGGCTGGTATCCCGGTTACAGAATGAT			
13415	P	C	S	ATGACGTGGCAGACGGGTCCGTGGTGCY			
13415	P	G	S	CGCGCCGAGGCGGTCCGTGGTGCY			
13415	T	C	S	TGTTGCACCACGGACCCTCATTCTGTAACCGGGATACCAGCCAGGGATGG			
13415	T	G	S	TGTTGCACCACGGACCGTCATTCTGTAACCGGGATACCAGCCAGGGATGG			
				GAGATCCGAGCAAGCTGATGAGTGTATCAGTGGCTCATTCTTTCTGTTGCACCACGGACC[CG]TCATTCTGTAACCGGGATACCAGCCAGGGATGGGGAGCGGG			
13415	IS	[CG]		AGGCGCAGGGCAGGGGCGT	ctg15907	6	
13418	I		A	TCGACCGCATGACGCTGACGATGGTT			
13418	P	A	A	CGCGCCGAGGAGGTGCAGGTCTCAGY			
13418	P	G	A	ATGACGTGGCAGACGGGTGCAGGTCTCAY			
13418	T	A	A	TGCACTGAGACCTGCACCTACCATCGTCAGCGTCATGCGGTCGATC			
13418	T	G	A	TGCACTGAGACCTGCACCCACCATCGTCAGCGTCATGCGGTCGATC			
				CTTCCGGCAGCACAAGACCAAAGACAAGCATGAGATCGACCGCATGACGCTGACGATGGT[AG]GGTGCAGGTCTCAGTGCAGGGCCGCAGGGGGCTGGGGGGA			
13418	IS	[AG]		GCTCCTGTGGGTGCCAGGCC			
13421	I		A	TGCCACGGACTTGGAATCATGTGGTCCCA			
13421	P	C	A	ATGACGTGGCAGACCGAATTAACTTTCCATAGTATTCTGY			
13421	P	T	A	CGCGCCGAGGTGAATTAACTTTCCATAGTATTCTGY			
13421	T	C	A	AGTTCAGAATACTATGGAAAGTTAATTCGGGGACCACATGATTCCAAGTCCGTGGCAGT			
13421	T	T	A	AGTTCAGAATACTATGGAAAGTTAATTCAGGGACCACATGATTCCAAGTCCGTGGCAGT			
				AAGCCCAGGAGCCTTCTTTGGCTTCCTGTGACTGCCACGGACTTGGAATCATGTGGTCCC[CT]GAATTAACTTTCCATAGTATTCTGAACTATGAACTGGATCAAG			
13421	IS	[CT]		ATGGCTGCATCTTGGGG	ctg45	8	
13423	I		A	GCCTGGAAAATACAGCTTCAGAGGGGATAAGGGACT			
13423	P	G	A	ATGACGTGGCAGACGAGGGAGGGAAAGCAY			
13423	P	A	A	CGCGCCGAGGAAGGGAGGGAAAGCATY			
13423	T	G	A	TGAAATGCTTTCCCTCCCTCGTCCCTTATCCCCTCTGAAGCTGTATTTTCCAGGCAG			
13423	T	A	A	TGAAATGCTTTCCCTCCCTTGTCCCTTATCCCCTCTGAAGCTGTATTTTCCAGGCAG			
				CTAAAGCTGCTGAGAACCTGATTCTGCCTGGAAAATACAGCTTCAGAGGGGATAAGGGAC[GA]AGGGAGGGAAAGCATTTCACCAGGAACATGGTAGCGTTCTTG			
13423	IS	[GA]		TTGCTGCAGGGGGCTGAG	ctg45	8	
13424	I		A	GCAGCCCAGGGGCCCAGGTT			
13424	P	A	A	CGCGCCGAGGACCCACTGAGACACTGY			
13424	P	G	A	ATGACGTGGCAGACGCCCACTGAGACACTY			
13424	T	A	A	CATGCAGTGTCTCAGTGGGTACCTGGGCCCCTGGGCTGCCT			
13424	T	G	A	CATGCAGTGTCTCAGTGGGCACCTGGGCCCCTGGGCTGCCT			
				CCAGGAACATGGTAGCGTTCTTGTTGCTGCAGGGGGCTGAGGCAGCCCAGGGGCCCAGGT[AG]CCCACTGAGACACTGCATGGATATGGAAGCCCACCAAGAAC			
13424	IS	[AG]		CCTGGGAGGACAGAGTGCG	ctg45	8	
13428	I		A	GTGTGTATTTAAACTTTTGAGATGTCAAACTTTTGTGTTTGAAATATGTAAAGAA			
13428	P	C	A	ATGACGTGGCAGACCGCTAATCTTTATTACTGCTTTTY			
13428	P	T	A	CGCGCCGAGGTGCTAATCTTTATTACTGCTTTTTY			
13428	T	C	A	CAAAAAAAAGCAGTAATAAAGATTAGCGTCTTTACATATTTCAAACACAAAAGTTTGACATCTCAAAAGTTTAAATACACACAA			
13428	T	T	A	CAAAAAAAAGCAGTAATAAAGATTAGCATCTTTACATATTTCAAACACAAAAGTTTGACATCTCAAAAGTTTAAATACACACAA			
				TATTTTGTGTGTATTTAAACTTTTGAGATGTCAAACTTTTGTGTTTGAAATATGTAAAGA[CT]GCTAATCTTTATTACTGCTTTTTTTTGACTGATAGACTTTCAGTAAA			
13428	IS	[CT]		ATTAAATGTGAAA	ctg17403	17	
13441	I		A	GGCGCGTGCGGGGGCTCT			
13441	P	G	A	ATGACGTGGCAGACGTCGTCAATGCAAGCCY			
13441	P	A	A	CGCGCCGAGGATCGTCAATGCAAGCCY			
13441	T	G	A	GTGCGGCTTGCATTGACGACGAGCCCCCGCACGCGCCGC			
13441	T	A	A	GTGCGGCTTGCATTGACGATGAGCCCCCGCACGCGCCGC			
				GAGGTGAGCCGCAGCGAGGCCTGGCTCAATGTGACGGTGAAGCGGCGCGTGCGGGGGCTC[GA]TCGTCAATGCAAGCCGCACGGTGGTGCCCCTGAATGGGA			
13441	IS	[GA]		GCGTGAGCTTCAGCACGTCGC	MULTIPLE	16	PKD1
13444	I		A	CTTCCTCCTATTGCCCTGACACCTGGCAA			
13444	P	C	A	ATGACGTGGCAGACCGCGGCCTGCTY			
13444	P	T	A	CGCGCCGAGGTGCGGCCTGCTCY			
13444	T	C	A	CATCGAGCAGGCCGCGTGCCAGGTGTCAGGGCAATAGGAGGAAGAA			
13444	T	T	A	CATCGAGCAGGCCGCATGCCAGGTGTCAGGGCAATAGGAGGAAGAA			
				CCTGAGCTGGGCTCATTCTCCAGATAGAAGTTCTTCCTCCTATTGCCCTGACACCTGGCA[CT]GCGGCCTGCTCGATGTCCCATCTCACCCATCTGCGCCCTCCC			
13444	IS	[CT]		CCAGCTGGGCACCAGCAC	ctg14824	1	
13445	I		S	CCACGCATCTTTATTTGAGTGCTTCCCACCCAGC			
13445	P	T	S	CGCGCCGAGGAGTGCAACTCCGCAY			
13445	P	A	S	ATGACGTGGCAGACTGTGCAACTCCGCAY			
13445	T	T	S	GCCCTGCGGAGTTGCACTCTGGGTGGGAAGCACTCAAATAAAGATGCGTGGTG			
13445	T	A	S	GCCCTGCGGAGTTGCACACTGGGTGGGAAGCACTCAAATAAAGATGCGTGGTG			
				CTAACTGGGCTCAAGGGGTGCTGGAAGGCGCAGAGATTGGAGTGCCCTGCGGAGTTGCAC[TA]CTGGGTGGGAAGCACTCAAATAAAGATGCGTGGTGTTAACA			
13445	IS	[TA]		GTGCGGGGCCTCTGTGCCA	ctg14824	1	
13450	I		S	CCCCATCCCACTCCTTCCTTTCTTCCCAGAAT			
13450	P	T	S	CGCGCCGAGGAGAAGCCCACATCACAY			
13450	P	C	S	ATGACGTGGCAGACGGAAGCCCACATCACY			
13450	T	T	S	CACCTGTGATGTGGGCTTCTTTCTGGGAAGAAAGGAAGGAGTGGGATGGGGCT			
13450	T	C	S	CACCTGTGATGTGGGCTTCCTTCTGGGAAGAAAGGAAGGAGTGGGATGGGGCT			
				TGGGGGTGGGGGTTCTGGTAAAGCTTATCAGGCTTCGCAGTCACCTGTGATGTGGGCTTC[TC]TTCTGGGAAGAAAGGAAGGAGTGGGATGGGGCTGTCAGCTT			
13450	IS	[TC]		TTCATCCTAGCCTGCCCCT	ctg5305	11	
13453	I		A	ACAGCTAAGCCTCCCAAGCCTGCTGGA			
13453	P	T	A	CGCGCCGAAGGTTTCAGCTGACAAAGGGY			
13453	P	C	A	ATGACGTGGCAGACCTTCAGCTGACAAAGGGY			
13453	T	T	A	CCAACCCTTTGTCAGCTGAAACCAGCAGGCTTGGGAGGCTTAGCTGTGA			
13453	T	C	A	CCAACCCTTTGTCAGCTGAAGCCAGCAGGCTTGGGAGGCTTAGCTGTGA			
				GCTGTATCATTGGCTGACTGATGCTGGTGAATTCACAGCTAAGCCTCCCAAGCCTGCTGG[TC]TTCAGCTGACAAAGGGTTGGAAGCCAGGCGTGAACATGCAGC			
13453	IS	[TC]		TGGAGCTGAAGCTCTGCT	ctg5305	11	
13455	I		A	CCGGCTTTTGGGCTCTGAAGGACTAACCACT			
13455	P	G	A	ATGACGTGGCAGACGTGCTTTCTCACTTGTCTY			
13455	P	A	A	CGCGCCGAGGATGCTTTCTCACTTGTCTCY			
13455	T	G	A	ATCTGAGACAAGTGAGAAAGCACGTGGTTAGTCCTTCAGAGCCCAAAAGCCGGGG			
13455	T	A	A	ATCTGAGACAAGTGAGAAAGCATGTGGTTAGTCCTTCAGAGCCCAAAAGCCGGGG			
				AGGGAAGGCAGCTCCTGGCTGTGTCTGTCCCCGGCTTTTGGGCTCTGAAGGACTAACCAC[GA]TGCTTTCTCACTTGTCTCAGATTGCCCAGCTGCCCTTGACCG			
13455	IS	[GA]		GAAGCATGAGTATCATCT			
13456	I		S	CCTGCAGGGACTTGGTGACTTCGCCTTCT			
13456	P	C	S	ATGACGTGGCAGACGTAACTCAGCTTCAGCTTY			
13456	P	T	S	CGCGCCGAGGATAACTCAGCTTCAGCTTGY			
13456	T	C	S	TCCCCAAGCTGAAGCTGAGTTACGAAGGCGAAGTCACCAAGTCCCTGCAGGAG			
13456	T	T	S	TCCCCAAGCTGAAGCTGAGTTATGAAGGCGAAGTCACCAAGTCCCTGCAGGAG			

FIGURE 129B

				AGACCGAGAACTGAAGACCGTGCAGGCGGTCCTCACTGTCCCCAAGCTGAAGCTGAGTTA[CT]GAAGGCGAAGTCACCAAGTCCCTGCAGGAGATGAGTATGTC			
13456	IS	[CT]		TGAAGACCCTTTCGCTCTT			
13457	I		A	CAGTAAAATGGGTCAAGGTTTAGTCAGTTGGAAGTTGTGTCAAAAT			
13457	P	C	A	CGCGCCGAGGCTCACTATGGTTGGTTGAGY			
13457	P	G	A	ATGACGTGGCAGACGTCACTATGGTTGGTTGAGY			
13457	T	C	A	AGCCCTCAACCAACCATAGTGAGTTTTGACACAACTTCCAACTGACTAAACCTTGACCCATTTTACTGCT			
13457	T	G	A	AGCCCTCAACCAACCATAGTGACTTTTGACACAACTTCCAACTGACTAAACCTTGACCCATTTTACTGCT			
				TGTGTTTTGCAACAGCAGTAAAATGGGTCAAGGTTTAGTCAGTTGGAAGTTGTGTCAAAA[CG]TCACTATGGTTGGTTGAGGGCTCGAAGTCTCCCAGCATTCATT			
13457	IS	[CG]		AACAACTATCTGTTCAA	ctg15665	20	
13459	I		A	ACCTTTGCCCTCCAGCTCCATGACCCA			
13459	P	C	A	ATGACGTGGCAGACCAGTGGCTATCTGGCTY			
13459	P	T	A	CGCGCCGAGGTAGTGGCTATCTGGCTGY			
13459	T	C	A	GCTTCAGCCAGATAGCCACTGGGGTCATGGAGCTGGAGGGCAAAGGTCA			
13459	T	T	A	GCTTCAGCCAGATAGCCACTAGGGTCATGGAGCTGGAGGGCAAAGGTCA			
				AGGGAACAAGCACTTCCTGAAGAAATCAGCCTCTGACCTTTGCCCTCCAGCTCCATGACCC[CT]AGTGGCTATCTGGCTGAAGCTGACCTCTCCTACACCTGGGAC			
13459	IS	[CT]		TTTGGAGACAGTAGTGGA	ctg15265	12	SILV
13463	I		S	TGCCCAAACAAAGCTAGGGGTGCTTTTTCTTCTTCA			
13463	P	G	S	ATGACGTGGCAGACCGTGCCTTGCATGTCY			
13463	P	A	S	CGCGCCGAGGTGTGCCTTGCATGTCY			
13463	T	G	S	AAAGGACATGCAAGGCACGGAAGAAGAAAAAGCACCCCTAGCTTTGTTTGGGCACA			
13463	T	A	S	AAAGGACATGCAAGGCACAGAAGAAGAAAAAGCACCCCTAGCTTTGTTTGGGCACA			
				CTTAGTTTCTCAGCCAGAGACAACTAAAACTTACCCTGATAAAAAGGACATGCAAGGCAC[GA]GAAGAAGAAAAAGCACCCCTAGCTTTGTTTGGGCACACTCTTG			
13463	IS	[GA]		TTGCCAGCCTGGAAGAC	ctg12387	2	MAP2
13466	I		A	CCACGCTCAGGCGTGGAAGCCAT			
13466	P	G	A	ATGACGTGGCAGACGGGCTGTGCCAGGY			
13466	P	A	A	CGCGCCGAGGAGGCTGTGCCAGGY			
13466	T	G	A	CAGGCCTGGCACAGCCCTGGCTTCCACGCCTGAGCGTGGAG			
13466	T	A	A	CAGGCCTGGCACAGCCTTGGCTTCCACGCCTGAGCGTGGAG			
				GCCCCACCGCAAGCCAAACTACAACTAACTCGTGTCCTCCACGCTCAGGCGTGGAAGCCA[GA]GGCTGTGCCAGGCCTGGCCAGGCCAAGCAGGATAACAGCAA			
13466	IS	[GA]		ATGCATTCTGAACGTGTAG	MULTIPLE	MULTIPLE	
13467	I		A	GTGGCATCCTCATGTGCTCAAAGTGTAGTTTTACCTACAT			
13467	P	G	A	ATGACGTGGCAGACGGGTGTAAATTAGCCTATTGATTTY			
13467	P	A	A	CGCGCCGAGGAGTGTAAATTAGCCTATTGATTTGY			
13467	T	G	A	AATTCAAATCAATAGGCTAATTTACACCTGTAGGTAAAACTACACTTTGAGCACATGAGGATGCCACAA			
13467	T	A	A	AATTCAAATCAATAGGCTAATTTACACTTGTAGGTAAAACTACACTTTGAGCACATGAGGATGCCACAA			
				CCTCCTGGTTCCCCTTCTATTGTGGCATCCTCATGTGCTCAAAGTGTAGTTTTACCTACA[GA]GTGTAAATTAGCCTATTGATTTGAATTGAACTAGAGAAAGGCAA			
13467	IS	[GA]		TACAGGGAGCTTTCCC	ctg21fin2	21	
13471	I		A	GTCCTAGGATGATCCAAAATCACCAAGACCTCCAGCA			
13471	P	T	A	CGCGCCGAGGTCTGGATGATGCCTTCTY			
13471	P	C	A	ATGACGTGGCAGACCCTGGATGATGCCTTCTY			
13471	T	T	A	ATGGAGAAGGCATCATCCAGAGCTGGAGGTCTTGGTGATTTTGGATCATCCTAGGACTG			
13471	T	C	A	ATGGAGAAGGCATCATCCAGGGCTGGAGGTCTTGGTGATTTTGGATCATCCTAGGACTG			
				TAACCCAACACGAAGCAGATAGCAGTCCTAGGATGATCCAAAATCACCAAGACCTCCAGC[TC]CTGGATGATGCCTTCTCCATCCTGGACTTATTCCTAGGATGCT			
13471	IS	[TC]		GGTTCCGGTCCCGGTAG	ctg17224	X	
13478	I		S	TGTGGTTATGGCGCATTTAACTTTTCCAAACCAGCTTTTTA			
13478	P	A	S	CGCGCCGAGGTGTACCGCACATAGGAAY			
13478	P	G	S	ATGACGTGGCAGACCGTACCGCACATAGGAY			
13478	T	A	S	GGTCTTCCTATGTGCGGTACAAAAAAGCTGGTTTGGAAAAGTTAAATGCGCCATAACCACAAT			
13478	T	G	S	GGTCTTCCTATGTGCGGTACGAAAAAGCTGGTTTGGAAAAGTTAAATGCGCCATAACCACAAT			
				ACACCACTGGCCAAACAATCCTAATTTACACTCACCCTCAGGTCTTCCTATGTGCGGTAC[AG]AAAAAGCTGGTTTGGAAAAGTTAAATGCGCCATAACCACAATCA			
13478	IS	[AG]		ATGCAAATACGCCAGA	ctg25301	15	
13483	I		A	CCCTCTGTGGTCTTCGCCAGGGGAATAGT			
13483	P	G	A	ATGACGTGGCAGACGTTGCCACTATCTTGAAGAAY			
13483	P	C	A	CGCGCCGAGGCTTGCCACTATCTTGAAGAAY			
13483	T	G	A	CACCTTCTTCAAGATAGTGGCAACCTATTCCCCTGGCGAAGACCACAGAGGGGA			
13483	T	C	A	CACCTTCTTCAAGATAGTGGCAAGCTATTCCCCTGGCGAAGACCACAGAGGGGA			
				GTGGCTTAATTGTTGCCAAATATTTCTCCCTCCCCTCTGTGGTCTTCGCCAGGGGAATAG[GC]TTGCCACTATCTTGAAGAAGGTGCACAGTGCCCTGCTCCTCTT			
13483	IS	[GC]		TCCTATGTCCCCAGAAT	ctg15343	2	UGT1A9
13488	I		A	CCCGTAGAAAGCACAGAGGCAGATGACAGTCTTA			
13488	P	T	A	CGCGCCGAGGTCGTTAAAGATTTCACTGCTY			
13488	P	C	A	ATGACGTGGCAGACCCGTTAAAGATTTCACTGCY			
13488	T	T	A	CTACAGCAGTGAAATCTTTAACGAAAGACTGTCATCTGCCTCTGTGCTTTCTACGGGAT			
13488	T	C	A	CTACAGCAGTGAAATCTTTAACGGAAGACTGTCATCTGCCTCTGTGCTTTCTACGGGAT			
				CTGAGGAATGTAAAGGCCCAAAACAATCCCGTAGAAAGCACAGAGGCAGATGACAGTCTT[TC]CGTTAAAGATTTCACTGCTGTAGATTTCTGAGAGTGCTGTGTA			
13488	IS	[TC]		GCTGTCCTCTTTATCCT	ctg14621	2	
13490	I		S	CCAGTGTGCAGGAAATCTCACAGTCCCCCT			
13490	P	C	S	ATGACGTGGCAGACGCTGGGAGAGAAGATGGY			
13490	P	T	S	CGCGCCGAGGACTGGGAGAGAAGATGGY			
13490	T	C	S	GAGACCATCTTCTCTCCCAGCGGGGGACTGTGAGATTTCCTGCACACTGGTC			
13490	T	T	S	GAGACCATCTTCTCTCCCAGTGGGGGACTGTGAGATTTCCTGCACACTGGTC			
				AGCAGAGGCTGATGTCGGACTAGCCTCTGGCACAGACCGGGAGACCATCTTCTCTCCCAG[CT]GGGGGACTGTGAGATTTCCTGCACACTGGTCGCCATGTAGG			
13490	IS	[CT]		ATATGACGCCAGGGAAGAG	ctg21fin2	21	
13507	I		S	GGAGACCCAAAACGTCCTTACCTGCCCCT			
13507	P	T	S	CGCGCCGAGGATAGTCCAAGGGGCATY			
13507	P	C	S	ATGACGTGGCAGACGTAGTCCAAGGGGCATY			
13507	T	T	S	CATGATGCCCCTTGGACTATGGGGCAGGTAAGGACGTTTTGGGTCTCCTG			
13507	T	C	S	CATGATGCCCCTTGGACTACGGGGCAGGTAAGGACGTTTTGGGTCTCCTG			
				GCCGCAGCCCCGTCGGTGCGTCGAGGGGGCAGGGCGGAGCACATGATGCCCCTTGGACTA[TC]GGGGCAGGTAAGGACGTTTTGGGTCTCCTGGAGGAAGGT			
13507	IS	[TC]		GGCCCCGGGGCGCGCACTGGG	ctg17326	12	
13509	I		S	GTGGCATCTACCTTGGGGCTGGAGAAGTT			
13509	P	G	S	CGCGCCGAGGCATAGGCCCCAAGCAY			
13509	P	C	S	ATGACGTGGCAGACGATAGGCCCCAAGCAY			
13509	T	G	S	TCTTTGCTTGGGGCCTATGACTTCTCCAGCCCCAAGGTAGATGCCACCT			
13509	T	C	S	TCTTTGCTTGGGGCCTATCACTTCTCCAGCCCCAAGGTAGATGCCACCT			
				CATGCTGATCCAGAAAAGGAAAAAGGGGAGGGGGAGTGACAATCTTTGCTTGGGGCCTAT[GC]ACTTCTCCAGCCCCAAGGTAGATGCCACCTGGAAATCCCCCA			
13509	IS	[GC]		ATGTCCACTAGGGGGCAG	ctg17326	12	
13516	I		A	CTGCTCTGGCTCAAGGCTGATGGCAATCC			
13516	P	G	A	ATGACGTGGCAGACGGCTGCGAAGTGCY			
13516	P	T	A	CGCGCCGAGGTGCTGCGAAGTGCY			
13516	T	G	A	CTGGGCACTTCGCAGCCGATTGCCATCAGCCTTGAGCCAGAGCAGGT			
13516	T	T	A	CTGGGCACTTCGCAGCAGATTGCCATCAGCCTTGAGCCAGAGCAGGT			
				CAGACCTGTCTCCACTCAACTACCTCACCCACCTGCTCTGGCTCAAGGCTGATGGCAATC[GT]GCTGCGAAGTGCCCAGATGAATGAACTGCCCTACCTGCAGAT			
13516	IS	[GT]		TGCTAGTTTTGCTTATAA	ctg17326	12	B7
13517	I		S	CGGAAGGGATCAATGGGAGGAGGGGAAGT			
13517	P	G	S	CGCGCCGAGGCCATGCTAGAGGAGGACY			
13517	P	C	S	ATGACGTGGCAGACGCATGCTAGAGGAGGAY			
13517	T	G	S	CCCAGTCCTCCTCTAGCATGGCTTCCCCTCCTCCCATTGATCCCTTCCGGC			
13517	T	C	S	CCCAGTCCTCCTCTAGCATGCCTTCCCCTCCTCCCATTGATCCCTTCCGGC			

FIGURE 129B

				CTCCCCCACCTCAGCCTTATGCCCCTACCTCACACCAGTCCCCAGTCCTCCTCTAGCATG[GC]CTTCCCCTCCTCCCATTGATCCCTTCCGGCCCCTCCTGGCCC			
13517	IS	[GC]		GACCCAGTCCAGCCTCTT	ctg17326	12	
13518	I		S	CTTGGGCATCCTGTGGGAGGACCTGAGT			
13518	P	T	S	CGCGCCGAGGAACAGAATACCTTGGCTGY			
13518	P	C	S	ATGACGTGGCAGACGACAGAATACCTTGGCTGY			
13518	T	T	S	CAGACAGCCAAGGTATTCTGTTCTCAGGTCCTCCCACAGGATGCCCAAGGC			
13518	T	C	S	CAGACAGCCAAGGTATTCTGTCCTCAGGTCCTCCCACAGGATGCCCAAGGC			
				AGCACGTCCAGCAGTGATGGCAAAGCTGAGAAGTCCAGGCAGACAGCCAAGGTATTCTGT[TC]CTCAGGTCCTCCCACAGGATGCCCAAGGCACTGGGGCTGAG			
13518	IS	[TC]		GGTGTGTGTGTGTTGTGGG			
13528	I		S	CCCTAGGAGGCCGAAGAAACAGATGGAGATGATAAATGTA			
13528	P	G	S	ATGACGTGGCAGACCGGCAGCACTCTGTY			
13528	P	A	S	CGCGCCGAGGTGGCAGCACTCTGTY			
13528	T	G	S	CTGCACAGAGTGCTGCCGACATTTATCATCTCCATCTGTTTCTTCGGCCTCCTAGGGAA			
13528	T	A	S	CTGCACAGAGTGCTGCCAACATTTATCATCTCCATCTGTTTCTTCGGCCTCCTAGGGAA			
				AAATGCTACGGCCTGTGACAATGCTCCAGAAGCCTGGGACCTGCTGCACAGAGTGCTGCC[GA]ACATTTATCATCTCCATCTGTTTCTTCGGCCTCCTAGGGAAC			
13528	IS	[GA]		CTTTTTGTCCTGTTGGTC	ctg17748	14	BDKRB1
13531	I		S	GGTCAGAGACTTAGAAATGCTGGGGTCAATGGTCAGT			
13531	P	C	S	ATGACGTGGCAGACGGGTGAGGGTCCCY			
13531	P	G	S	CGCGCCGAGGCGGTGAGGGTCCCY			
13531	T	C	S	CCAGGGGACCCTCACCCCTGACCATTGACCCCAGCATTTCTAAGTCTCTGACCAT			
13531	T	G	S	CCAGGGGACCCTCACCGCTGACCATTGACCCCAGCATTTCTAAGTCTCTGACCAT			
				ACGGCTTTGATGGACTGCATCTCTGGACAGGTACCTGACCCCTTCCAGGGGACCCTCACC[CG]CTGACCATTGACCCCAGCATTTCTAAGTCTCTGACCATACAC			
13531	IS	[CG]		CTTGGGGTTCTCAGGATC	ctg14508	3	
13533	I		A	GTCCATGGTGCTCTTCCTGGACCGTGTT			
13533	P	G	A	ATGACGTGGCAGACGTATGGCATCGAGAACCY			
13533	P	A	A	CGCGCCGAGGATATGGCATCGAGAACCAY			
13533	T	G	A	GTCCTGGTTCTCGATGCCATACACACGGTCCAGGAAGAGCACCATGGACGC			
13533	T	A	A	GTCCTGGTTCTCGATGCCATATACACGGTCCAGGAAGAGCACCATGGACGC			
				GATGTCAGCATCCTTCGTGCCGGACCACAAGGCGTCCATGGTGCTCTTCCTGGACCGTGT[GA]TATGGCATCGAGAACCAGGACTTCTTGCTGCACGTGCTGGA			
13533	IS	[GA]		CGTGGGGTTCCTGCCCGAC	ctg14508	3	RYR1
13546	I		S	CTGCAGCCCTTCCCTCCCTAGGGAT			
13546	P	C	S	ATGACGTGGCAGACGGGCCCTTGTGCTY			
13546	P	T	S	CGCGCCGAGGAGGCCCTTGTGCTTAY			
13546	T	C	S	CGGGTAAGCACAAGGGCCCTCCCTAGGGAGGGAAGGGCTGCAGAA			
13546	T	T	S	CGGGTAAGCACAAGGGCCTTCCCTAGGGAGGGAAGGGCTGCAGAA			
				AGAAATTGTGAACTTTGTCCAGAAGATTGTGGACAACGGTTACGGGTAAGCACAAGGGCC[CT]TCCCTAGGGAGGGAAGGGCTGCAGAACATCGCACAGGAGG			
13546	IS	[CT]		AGCTCCCCAGCTCTGAGCC	ctg832	11	
13547	I		S	GCAGCCCCAGAACACCTGCTCCTCTGA			
13547	P	G	S	ATGACGTGGCAGACCTTCCCAAACTCAGGCY			
13547	P	A	S	CGCGCCGAGGTTTCCCAAACTCAGGCTY			
13547	T	G	S	TCTGAGCCTGAGTTTGGGAAGCAGAGGAGCAGGTGTTCTGGGGCTGCGT			
13547	T	A	S	TCTGAGCCTGAGTTTGGGAAACAGAGGAGCAGGTGTTCTGGGGCTGCGT			
				GAAGGGCTGCAGAACATCGCACAGGGAGGAGCTCCCCAGCTCTGAGCCTGAGTTTGGGAA[GA]CAGAGGAGCAGGTGTTCTGGGGCTGCGTAGCTAGAAGTCC			
13547	IS	[GA]		CAGCAGACTTCCTCCTACAA	ctg832	11	
13550	I		A	CCCTACCCCTCTGTGTCCCTCTGAACTGCT			
13550	P	C	A	ATGACGTGGCAGACCCCTCCTCTGTCTGCY			
13550	P	A	A	CGCGCCGAGGACCTCCTCTGTCTGCY			
13550	T	C	A	GTGGGCAGACAGAGGAGGGGCAGTTCAGAGGGACACAGAGGGGTAGGGAG			
13550	T	A	A	GTGGGCAGACAGAGGAGGTGCAGTTCAGAGGGACACAGAGGGGTAGGGAG			
				TCCTGCCTTCTGCACCTGCTCCCTCCCCACTCCCTACCCCTCTGTGTCCCTCTGAACTGC[CA]CCTCCTCTGTCTGCCCACCCACACCAGACCCTTCCGGACAGC			
13550	IS	[CA]		GCCTCGAGCTAAATGGCA	ctg832	11	
13556	I		A	GGATTCGGCAACGATATTCTACGTGAAGCCT			
13556	P	C	A	CGCGCCGAGGCCTGCATTGTTTGTAAACTTTY			
13556	P	G	A	ATGACGTGGCAGACGCTGCATTGTTTGTAAACTTY			
13556	T	C	A	AATAAAAGTTTACAAACAATGCAGGGGCTTCACGTAGAATATCGTTGCCGAATCCTC			
13556	T	G	A	AATAAAAGTTTACAAACAATGCAGCGGCTTCACGTAGAATATCGTTGCCGAATCCTC			
				AAAGCAAGGTGTTTGATGGGAGATAGTAGAGGATTCGGCAACGATATTCTACGTGAAGCC[CG]CTGCATTGTTTGTAAACTTTTATTTTCGTTACCTATGTTGCATC			
13556	IS	[CG]		TTTTTTTTAGGGAGAC			
13559	I		A	ACCCACCTCCCGGGAGAAAAGCTGTGT			
13559	P	G	A	ATGACGTGGCAGACGGTCACTGCTTTCACTGY			
13559	P	A	A	CGCGCCGAGGAGTCACTGCTTTCACTGY			
13559	T	G	A	TGTGCAGTGAAAGCAGTGACCCACAGCTTTTCTCCCCGGGAGGTGGGTGG			
13559	T	A	A	TGTGCAGTGAAAGCAGTGACTCACAGCTTTTCTCCCCGGGAGGTGGGTGG			
				TTTCTGTCCTTGTAGAGATTTGTCCTTTTCTCCCACCCACCTCCCGGGAGAAAAGCTGTG[GA]GTCACTGCTTTCACTGCACAGCACAGAGTAGAGACCCTGGCTT			
13559	IS	[GA]		CCCCCAGCAGGGTGGGG	ctg832	11	
13560	I		S	GTTCAGCCGCCATCTCCAAGTTCTGCACTAA			
13560	P	A	S	CGCGCCGAGGTGAGCATTCCCAAACTGY			
13560	P	G	S	ATGACGTGGCAGACCGAGCATTCCCAAACTGY			
13560	T	A	S	CTTTCAGTTTGGGAATGCTCATAGTGCAGAACTTGGAGATGGCGGCTGAACCT			
13560	T	G	S	CTTTCAGTTTGGGAATGCTCGTAGTGCAGAACTTGGAGATGGCGGCTGAACCT			
				TTAAAAGCCTAAAAGCCTGGTAGATGTATATTTCAATAGTCTTTCAGTTTGGGAATGCTC[AG]TAGTGCAGAACTTGGAGATGGCGGCTGAACCTGGGAAATGAGT			
13560	IS	[AG]		CACGTGGTTGCACATGC	ctg832	11	
13562	I		A	CCTGGCTGACCAGCTTCCTATCCTATTCCTTGTTTTGT			
13562	P	C	A	ATGACGTGGCAGACCGTGACTTTCAATTTCCTGY			
13562	P	A	A	CGCGCCGAGGAGTGACTTTCAATTTCCTGGY			
13562	T	C	A	CATGCCAGGAAATTGAAAGTCACGCAAAACAAGGAATAGGATAGGAAGCTGGTCAGCCAGGGT			
13562	T	A	A	CATGCCAGGAAATTGAAAGTCACTCAAAACAAGGAATAGGATAGGAAGCTGGTCAGCCAGGGT			
				TCCCAGCTGTGTCCAGGGTACACCCTGGCTGACCAGCTTCCTATCCTATTCCTTGTTTTG[CA]GTGACTTTCAATTTCCTGGCATGCTTTTAAAATGCGCTGCACAC			
13562	IS	[CA]		AAGCAAATGGCTCCTC	ctg832	11	
13563	I		A	GCAAGCGAGGCCCAGCAGGCAGA			
13563	P	C	A	ATGACGTGGCAGACCGTGGCTGGACTTTCY			
13563	P	T	A	CGCGCCGAGGTGTGGCTGGACTTTCTY			
13563	T	C	A	GAGCAGAAAGTCCAGCCACGCTGCCTGCTGGGCCTCGCTTGCCT			
13563	T	T	A	GAGCAGAAAGTCCAGCCACACTGCCTGCTGGGCCTCGCTTGCCT			
				TTTTAAAATGCGCTGCACACAAGCAAATGGCTCCTCAGGCAAGCGAGGCCCAGCAGGCAG[CT]GTGGCTGGACTTTCTGCTCCTCTTAGGCTTGGTCAGTGAGTC			
13563	IS	[CT]		ACTTGATGGGACTGGTGT	ctg832	11	
13565	I		A	GCTTCACCCAGAAGCAAGGTTGCTGTGGA			
13565	P	C	A	ATGACGTGGCAGACCGAGCTGCCGGTY			
13565	P	T	A	CGCGCCGAGGTGAGCTGCCGGTGY			
13565	T	C	A	GATGCACCGGCAGCTCGCCACAGCAACCTTGCTTCTGGGTGAAGCAC			
13565	T	T	A	GATGCACCGGCAGCTCACCACAGCAACCTTGCTTCTGGGTGAAGCAC			
				GTGCTAACCAGACAGTGGGCGCAGCCGGAGGTGCTTCACCCAGAAGCAAGGTTGCTGTGG[CT]GAGCTGCCGGTGCATCTAGCCCTTGTGGACACAGTTGCTGA			
13565	IS	[CT]		CAGGACTTCTATTTGTTCT	ctg22in7	22	
13575	I		A	CATCACCCTCCAGGCTGCTAGGCAGAA			
13575	P	C	A	ATGACGTGGCAGACCGGCCTCCTCTAAAGCY			
13575	P	T	A	CGCGCCGAGGTGGCCTCCTCTAAAGCY			
13575	T	C	A	CTGGGCTTTAGAGGAGGCCGTCTGCCTAGCAGCCTGGAGGGTGATGGG			
13575	T	T	A	CTGGGCTTTAGAGGAGGCCATCTGCCTAGCAGCCTGGAGGGTGATGGG			

FIGURE 129B

				TTCCCTTCTAAAAGCCTCCTCCCTCTGCCTCTCCCATCACCCTCCAGGCTGCTAGGCAGA[CT]GGCCTCCTCTAAAGCCCAGCCTAGGAAACTGAGGTCGTGACT			
13575	IS	[CT]		CCTGGCAACGTAGCCACA	ctg17450	X	
13589	I		A	GCCCATATCCTAAAGTATTAGAGTGTTACAAGGTCCTATTTGTAATT			
13589	P	C	A	ATGACGTGGCAGACCGGATCCCATTTGTAAATGTY			
13589	P	A	A	CGCGCCGAGGAGGATCCCATTTGTAAATGTTY			
13589	T	C	A	CGGAAACATTTACAAATGGGATCCGATTACAAATAGGACCTTGTAACACTCTAATACTTTAGGATATGGGCAG			
13589	T	A	A	CGGAAACATTTACAAATGGGATCCTATTACAAATAGGACCTTGTAACACTCTAATACTTTAGGATATGGGCAG			
				ATTTTCTTTCTACTGCCCATATCCTAAAGTATTAGAGTGTTACAAGGTCCTATTTGTAAT[CA]GGATCCCATTTGTAAATGTTTCCGAGTTTGACTTTCCATTGAAACC			
13589	IS	[CA]		GTGCAGCAGAAGAA	ctg25448	18	
13592	I		S	TGGCCTGACTCGCCAATCTGCTGTCTCA			
13592	P	G	S	ATGACGTGGCAGACCTAGGTACTGCCAACCTY			
13592	P	A	S	CGCGCCGAGGTTAGGTACTGCCAACCTY			
13592	T	G	S	CTTGAGGTTGGCAGTACCTAGGAGACAGCAGATTGGCGAGTCAGGCCAGC			
13592	T	A	S	CTTGAGGTTGGCAGTACCTAAGAGACAGCAGATTGGCGAGTCAGGCCAGC			
				CAGGGGGTGGCTTTTATCCAGACCTGCTGGTGTGGCAGCCCTTGAGGTTGGCAGTACCTA[GA]GAGACAGCAGATTGGCGAGTCAGGCCAGCGTGGCTTCCACA			
13592	IS	[GA]		AGTCCTTGTGGGGCTCCCG	ctg21fin5	21	
13600	I		A	CCCAATTAGGCGCCCTCCAAGGCTCTT			
13600	P	C	A	CGCGCCGAGGCTGAGGGCAATTGGAGY			
13600	P	G	A	ATGACGTGGCAGACGTGAGGGCAATTGGAGY			
13600	T	C	A	AAGCCTCCAATTGCCCTCAGAGAGCCTTGGAGGGCGCCTAATTGGGAA			
13600	T	G	A	AAGCCTCCAATTGCCCTCACAGAGCCTTGGAGGGCGCCTAATTGGGAA			
				CCCCTGTGATCTTTGCAGCCAGCCTCGCACCATTCCCAATTAGGCGCCCTCCAAGGCTCT[CG]TGAGGGCAATTGGAGGCTTCTGCTTGGATGAGGCTAAATCCC			
13600	IS	[CG]		TAATGGCTTGGTTAATGA	ctg14210	12	
13617	I		S	GTCCGCGAGCGTTTTCTGGGTGCTTTT			
13617	P	G	S	CGCGCCGAGGCTGGAGCTTCTCCAGCY			
13617	P	C	S	ATGACGTGGCAGACGTGGAGCTTCTCCAGCY			
13617	T	G	S	CAACGCTGGAGAAGCTCCAGAAAGCACCCAGAAAACGCTCGCGGACTC			
13617	T	C	S	CAACGCTGGAGAAGCTCCACAAAGCACCCAGAAAACGCTCGCGGACTC			
				TCCAAGAACCCCTCCCTCTCCTTTTGTTCTGATGAGAGGCCCAACGCTGGAGAAGCTCCA[GC]AAAGCACCCAGAAAACGCTCGCGGACTCTGATGGTCTTCAGG			
13617	IS	[GC]		GACAGCAGGGTCGCCAAT	ctg15944	11	
13622	I		A	CACCCTGGGGAGCGAAAGGGTCTTAGTTTGT			
13622	P	C	A	CGCGCCGAGGCCCCACCCATGTTCTY			
13622	P	G	A	ATGACGTGGCAGACGCCCACCCATGTTCTY			
13622	T	C	A	CTGCAGAACATGGGTGGGGCAAACTAAGACCCTTTCGCTCCCCAGGGTGGG			
13622	T	G	A	CTGCAGAACATGGGTGGGCCAAACTAAGACCCTTTCGCTCCCCAGGGTGGG			
				CTGTGGCTTCCGTTCCTTAGCCCTAGGGCCCACCCTGGGGAGCGAAAGGGTCTTAGTTTG[CG]CCCACCCATGTTCTGCAGCTCCACCCTCTCCCCTGCTGGGG			
13622	IS	[CG]		CCCTCTGGCTGGGACCCCT	ctg2712	15	
13624	I		A	GAGGCTCTGGGCCTGGTGGGTGA			
13624	P	T	A	CGCGCCGAGGTGCAGGCTCCCGY			
13624	P	C	A	ATGACGTGGCAGACCGCAGGCTCCCGY			
13624	T	T	A	GTGGCGGGAGCCTGCACACCCACCAGGCCCAGAGCCTCCT			
13624	T	C	A	GTGGCGGGAGCCTGCGCACCCACCAGGCCCAGAGCCTCCT			
				ACTGCAAGCCTGAGGATGGCCTTGAGGCCCAAGGACAGGAGGCTCTGGGCCTGGTGGGTG[TC]GCAGGCTCCCGCCACCGAGGAGCACGAGGCTGCCTCCTC			
13624	IS	[TC]		CTTCACTCTGATTGAAGGCAC	ctg15415	X	
13635	I		S	GCCAAAGGGGGACAAAGATCGGGATGCC			
13635	P	T	S	CGCGCCGAGGAGGAGAAGGCGTTGTY			
13635	P	A	S	ATGACGTGGCAGACTGGAGAAGGCGTTGTY			
13635	T	T	S	GGCCACAACGCCTTCTCCTGCATCCCGATCTTTGTCCCCCTTTGGCTC			
13635	T	A	S	GGCCACAACGCCTTCTCCAGCATCCCGATCTTTGTCCCCCTTTGGCTC			
				CTATGTCTCTTTCTTTAGATTCTGCTGGTTCACAAACTGGATGGCCACAACGCCTTCTCC[TA]GCATCCCGATCTTTGTCCCCCTTTGGCTCTCGTTGATCACGCTG			
13635	IS	[TA]		ATGGCAACCACATTTG	ctg15415	X	
13637	I		A	CGATCATTGAGTATGGCTCGCTGTGAAGAAAGAAATTCGAGT			
13637	P	G	A	ATGACGTGGCAGACGGGACAGGATCATGGCY			
13637	P	A	A	CGCGCCGAGGAGGACAGGATCATGGCY			
13637	T	G	A	CCAAGCCATGATCCTGTCCCCTCGAATTTCTTTCTTCACAGCGAGCCATACTCAATGATCGCT			
13637	T	A	A	CCAAGCCATGATCCTGTCCTCTCGAATTTCTTTCTTCACAGCGAGCCATACTCAATGATCGCT			
				TTGCCAGATGGAGGACAAGCGATCATTGAGTATGGCTCGCTGTGAAGAAAGAAATTCGAG[GA]GGACAGGATCATGGCTTGGAAAGGGTGCCTTTCCCTCCCCAG			
13637	IS	[GA]		TTGCAGTCAGAGACCTAC	ctg15415	X	LW-1
13652	I		S	GGCTAGTGATGCCCAGGGGCAGGTTATT			
13652	P	T	S	CGCGCCGAGGAGCCTTATTTCCCAAGTTCY			
13652	P	C	S	ATGACGTGGCAGACGGCCTTATTTCCCAAGTTY			
13652	T	T	S	ACCTGAACTTGGGAAATAAGGCTATAACCTGCCCCTGGGCATCACTAGCCCT			
13652	T	C	S	ACCTGAACTTGGGAAATAAGGCCATAACCTGCCCCTGGGCATCACTAGCCCT			
				GCTCACTGTCCTGGAAATCCAAAGAACAAACTGAGCTCACCTGAACTTGGGAAATAAGGC[TC]ATAACCTGCCCCTGGGCATCACTAGCCCTCCTCTCCTCCTTAC			
13652	IS	[TC]		CTTCTCTCAGCCCCAAT	ctg15944	11	

FIGURE 129C

SNP	OLIGO	PM	IX	OLIGO_SEQUENCE	GPCO	GPCH	SHORT_GENE_NAME
	64206 I		S	GGCCTCACGCTGAGGCCGAGATCCA			
	64206 P	A	S	CGCGCCGAGGTCATCATCCAAAGAATGGGGY			
	64206 P	G	S	CGCGCCGAGGCCATCATCCAAAGAATGGGGY			
	64206 T	A	S	GTGTCCCCATTCTTTGGATGATGAGGATCTCGGCCTCAGCGTGAGGCCCC			
	64206 T	G	S	GTGTCCCCATTCTTTGGATGATGGGGATCTCGGCCTCAGCGTGAGGCCCC			
	64206 IS	[AG]		CAGGGTGCACTATTGAGGGTTGGGGAGATGAGATACTTTGCTGACAATGAGGTGTCCCCATTCTTTGGATGATG[AG]GGATCTCGGCCTCAGCGTGAGGCCCCTCCCACA GGGTCTCTGGCAGGCACAGAAACTGGGGGCTCTTGCGTAGCACATGGGTATTTGTGGACGCTTCCC	ctg13980	1	
	64243 I		S	GCAACCCTTTGGAAGCCGGGGAGCA			
	64243 P	A	S	CGCGCCGAGGTTTAAAAGACACCGGGACTAC			
	64243 P	G	S	CGCGCCGAGGCTTAAAAGACACCGGGACTAC			
	64243 T	A	S	TTAGGTAGTCCCGGTCTCTTTTAAAGCTCCCCGGCTTCCAAAGGGTTGCCA			
	64243 T	G	S	TTAGGTAGTCCCGGTCTCTTTTAAGGCTCCCCGGCTTCCAAAGGGTTGCCA			
	64243 IS	[AG]		CTCTCTCGTGTTTTTTTCCTCTGCGCGCCCCTCATTCATCCCCACTGGGCTCCCTTTCCCTCAAATGCTCTGGGGCTCTCCGCGCTTTCCTGAGTCCGGGCTCCAAGGAGCCTT AGGTAGTCCCGGCTCTCTTTAA[AG]GCTCCCCGGCTTCCAAAGGGTTGCCACGTCCCTAAACCCTGTCTCCAGCTCGCATACACACACGCACAGAC	ctg16586	20	
	64285 I		S	CAGCCCGAAAGCATACATACAGTGCAGGGTTTAAAACT			
	64285 P	C	S	CGCGCCGAGGGCTGGCTTTGAAATTGGGY			
	64285 P	T	S	CGCGCCGAGGACTGGCTTTGAAATTGGGY			
	64285 T	C	S	TCTGCCCAATTCCAAAGCCAGCGTTTAAACCCTGCACTGTATGTATGCTTTCCGGGCTGAC			
	64285 T	T	S	TCTGCCCAATTCCAAAGCCAGTGTTTTAAACCCTGCACTGTATGTATGCTTTCCGGGCTGAC			
	64285 IS	[CT]		acatgctagcactggaactcagtcacagctctgccccaattcccaaagccag[CT]gtttaaaacccttgcactgtatgtatgctttccgggctgactcctgactcc	ctg16586	20	
	64346 I		S	GAGGCAGGCCAGGGTGGTGAACCAAT			
	64346 P	T	S	CGCGCCGAGGAATCTGGCTGACTCCTAAGTV			
	64346 P	C	S	CGCGCCGAGGGATCTGGCTGACTCCTAAGTV			
	64346 T	T	S	TGAGACTTAGGAGTCAGCCAGATTTTGGTTCACCACCCTGCCCTGCCTCTT			
	64346 T	C	S	TGAGACTTAGGAGTCAGCCAGATCTTGGTTCACCACCCTGCCCTGCCTCTT			
	64346 IS	[TC]		gcggaggtgtgaggtaggggggacaggtgagacttaggagtcagccaggat[TC]tgggttcaccacccctgcccctgcctctcaagctatacaggatgggcaga	ctg16586	20	
	67031 I		S	CCCCAGCCCAGTTATGCTTATCCAACTTTGGAGAAACATTTAT			
	67031 P	G	S	CGCGCCGAGGCTAGACAAGGAAGAAACAGGGV			
	67031 P	T	S	CGCGCCGAGGATAGACAAGGAAGAAACAGGGTV			
	67031 T	G	S	CCCTACCCTGTTTCTTCCTTGTCTAGTAAATGTTCTCCAAAGTTGGATAAGCATAAACTGGGCTGGGGTG			
	67031 T	T	S	CCCTACCCTGTTTCTTCCTTGTCTATTAAATGTTCTCCAAAGTTGGATAAGCATAAACTGGGCTGGGGTG			
	67031 IS	[GT]		gttcatattactcacctttaaagccctacctgttttctcctgtctta[GT]taaatgttctccaaagttggataagcataaactgggctgtgggtgagtgggg	ctg16586	20	
	78862 I		A	AGCACATATCCTTGTACATGTGTGAGCATGCAGTAAATGCAT			
	78862 P	G	A	CGCGCCGAGGGATGTGTTTCTGTCTGCCC			
	78862 P	A	A	CGCGCCGAGGAATGTGTTTCTGTCTGCCC			
	78862 T	G	A	AAATGGGCAGACAGAAACACATCTGCATTTACTGCATGCTCACACATGTACAAGGATATGTGCTGC			
	78862 T	A	A	AAATGGGCAGACAGAAACACATTTGCATTTACTGCATGCTCACACATGTACAAGGATATGTGCTGC			
	78862 IS	[GA]		ctatgtgcagcacatatcctgtacatgtgtgagcatgcagtaaatgca[GA]atgtgtttctgtctgcccatttgtacaggtctacgcctgggaagcgggtgggtgtgtccggagcggt	ctg14210	12	
	78877 I		A	ACATTCAGGGCTGCTCCTTTGTGTCGCCAATACAT			
	78877 P	A	A	CGCGCCGAGGAACCTGTTGACAGGTCAC			
	78877 P	G	A	CGCGCCGAGGGACCTGTTGACAGGTCAC			
	78877 T	A	A	AGGCGTGACCTGTCAACAGGTTTGTATTGGCGACAAAGGAGCAGCCCTGAATGTAG			
	78877 T	G	A	AGGCGTGACCTGTCAACAGGTCTGTATTGGCGACAAAGGAGCAGCCCTGAATGTAG			
	78877 IS	[AG]		tccgccctgcttttcccctacatttcagggctgctcctttgtcgccaatacca[AG]accttgttgacaggtcacgcctgggaagcgggtgggtgtgtccggagcggt	ctg14210	12	
	78947 I		S	GCTAGCAAACTGATATGAGTAGAGTCCTGAAAGATCTTTCAGCAATTTCATTA			
	78947 P	G	S	CGCGCCGAGGCTCTTGGGATAAGTGAGTCAC			
	78947 P	A	S	CGCGCCGAGGTTCTTGGGATAAGTGAGTCACT			
	78947 T	G	S	TGAAAGTGACTCACTTATCCCAAGAGAATGAAATTGCTGAAAGATCTTTCAGGACTCTACCTCATATCAGTTTGCTAGCAG			
	78947 T	A	S	TGAAAGTGACTCACTTATCCCAAGAAAATGAAATTGCTGAAAGATCTTTCAGGACTCTACCTCATATCAGTTTGCTAGCAG			
	78947 IS	[GA]		AAACCTCTATGCAATCTGAGTAGAGCAGCCACAACCAAAAAATTCTACAACACACACTGTTCTGAAAGTGACTCACTTATCCCAAGA[GA]AATGAAATTGCTGAAAGATC TTTCAGGACTCTACCTCATATCAGTTTGCTAGCAGAAATCTAGAAGACTGTCAGCTTCCAAACATTAATGCAATGGTTAACATCTTCTGTCTTTATAATC	ctg14210	12	TNFSF10
	78965 I		S	ACTCACTGAGTCACTGAGTCTTCAAAGTTCCTGCTTATTCATTACAGATCTTAA			
	78965 P	G	S	CGCGCCGAGGCCTCCTTTCCCTCATCCA			
	78965 P	A	S	CGCGCCGAGGTCTCCTTTCCCTCATCCAT			
	78965 T	G	S	TTCCATGGATGAGGGAAAGGAGGTAAGATCTGTAATGAATAAGCAGGAACTTTGAAGACTCAGTGACTCAGTGAGTAA			
	78965 T	A	S	TTCCATGGATGAGGGAAAGGAGATAAGATCTGTAATGAATAAGCAGGAACTTTGAAGACTCAGTGACTCAGTGAGTAA			
	78965 IS	[GA]		CTGCCTCAATTTACAGTGTGAGTGTGCTCACCTCCTTTGGGGACTGTATATCCAGAGGAGCCTCCTCAATAAAACACTTTATAAATAACATCCTTCCATGGATGAGGGAAA GGAG[GA]TAAGATCTGTAATGAATAAGCAGGAACTTTGAAGACTCAGTGACTCAGTGAGTAATAAAGACTCAGTGACTTCTGATCTGTCCTAACTG			
	87787 I		A	CCGCCATCCACACTCCCAGGGTCTGA			
	87787 P	C	A	CGCGCCGAGGCGGTGAAATCGAATTTATTCTCATT			
	87787 P	T	A	CGCGCCGAGGTGGTGAAATCGAATTTATTCTCATTC			
	87787 T	C	A	ATGAGAATGAGAATAAATTCGATTTCACCGCAGACCCTGGGAGTGTGGATGGCGAG			
	87787 T	T	A	ATGAGAATGAGAATAAATTCGATTTCACCACAGACCCTGGGAGTGTGGATGGCGAG			
	87787 IS	[CT]		CAAACACACTGTGCCTGGCCCTGCTGACAGGGTCACGTGTGTCCCAGGCTGGTTCCAGGCTCCGCCATCCACACTCCCAGGGTCTG[CT]GGTGAAATCGAATTTATTCTCA TTCTCATCATTAGAAGTATGTCTAATTTAGAAAGAAGCCACATTGAACTCTGACTCCTGTTGTCCCCT			
	34958 I		A	GCTGGCTGCAGGGCAGTGCCAC			
	34958 P	A	A	CGCGCCGAGGAGGATCTAGCTGGGCY			
	34958 P	T	A	ATGACGTGGCAGACTGGATCTAGCTGGGCY			
	34958 T	A	A	GCCAGCCCAGCTAGATCCATGGCACTGCCCTGCAGCCAGCCC			
	34958 T	T	A	GCCAGCCCAGCTAGATCCATGGCACTGCCCTGCAGCCAGCCC			
	34958 IS	[AT]		CCTCCCCTGGCCCTGCTTCAGACACCACATCTACCTGGGGCTGGCTGCAGGGCAGTGCCAGATGGGATCTAGCTGGGCTGGCCCAAAGCTGCCTCCCACACTGGATAGAAGG GTGAACAGTGGT	ctg22fm4	22	
	38339 I		S	CTTACTGTCCCCGGCTTACCAGATGACCAGT			
	38339 P	G	S	CGCGCCGAGGCTAATGTTTTAAGTGAATGGATAAGTY			
	38339 P	C	S	ATGACGTGGCAGACGTAATGTTTAAGTGAATGGATAAGTY			
	38339 T	G	S	TTTAACTTATCCATTCACTTAAAACATTAGCTGGTCATCTGGTAAGCCCGGGACAGTAAGCC			
	38339 T	C	S	TTTAACTTATCCATTCACTTAAAACATTACCTGGTCATCTGGTAAGCCCGGGACAGTAAGCC			
	38339 IS	[GC]		TTGTGAGCTCACTCCACCCCTTCTTCGTCCCTTTAACTTATCCATTCACTTAAAACATTA[GC]CTGGTCATCTGGTAAGCCCGGGACAGTAAGCCGAGTGGCTGTTGGAGT CGGTATTGTTGG	ctg22fm4	22	

FIGURE 129C

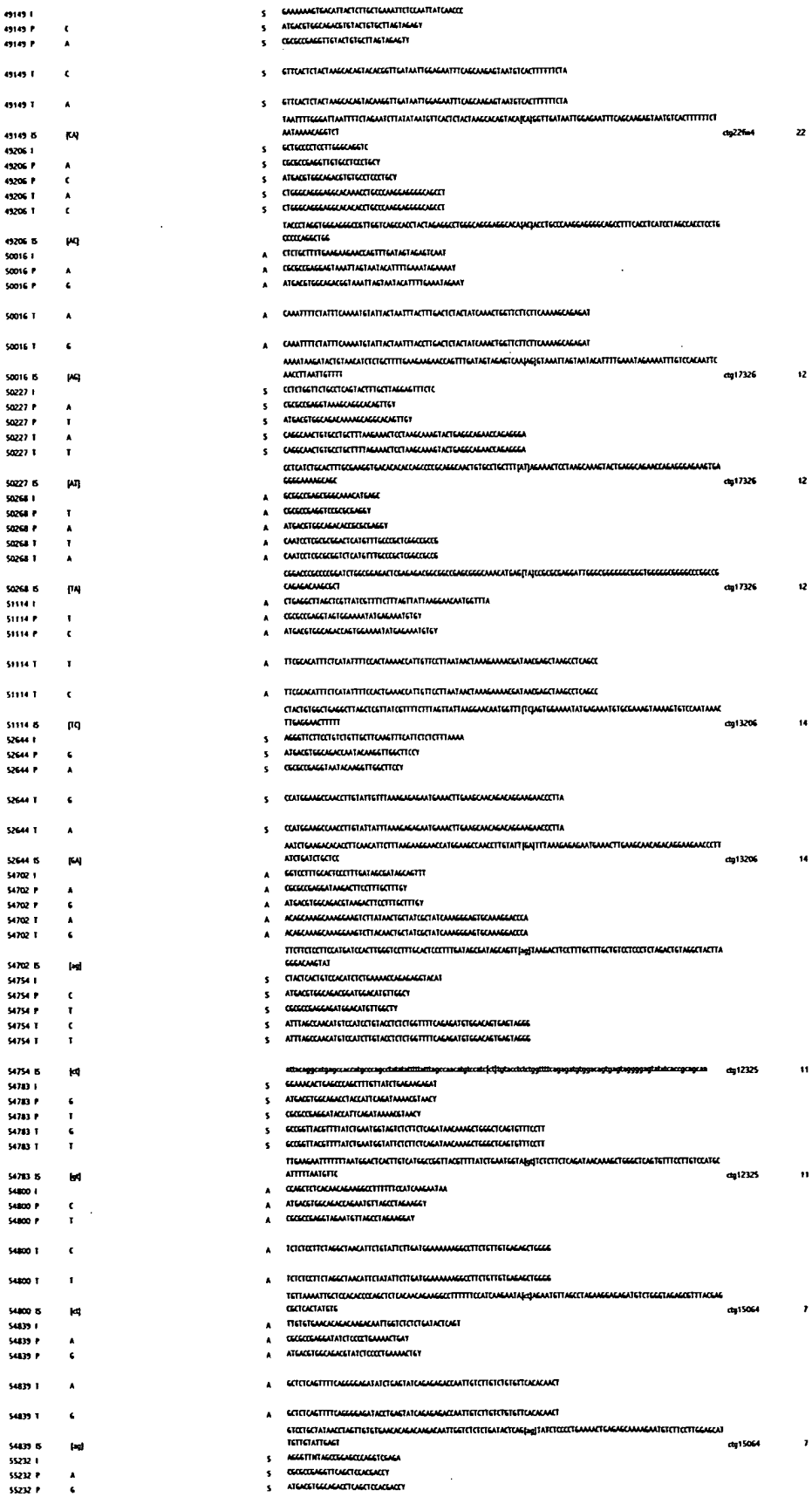


FIGURE 129C

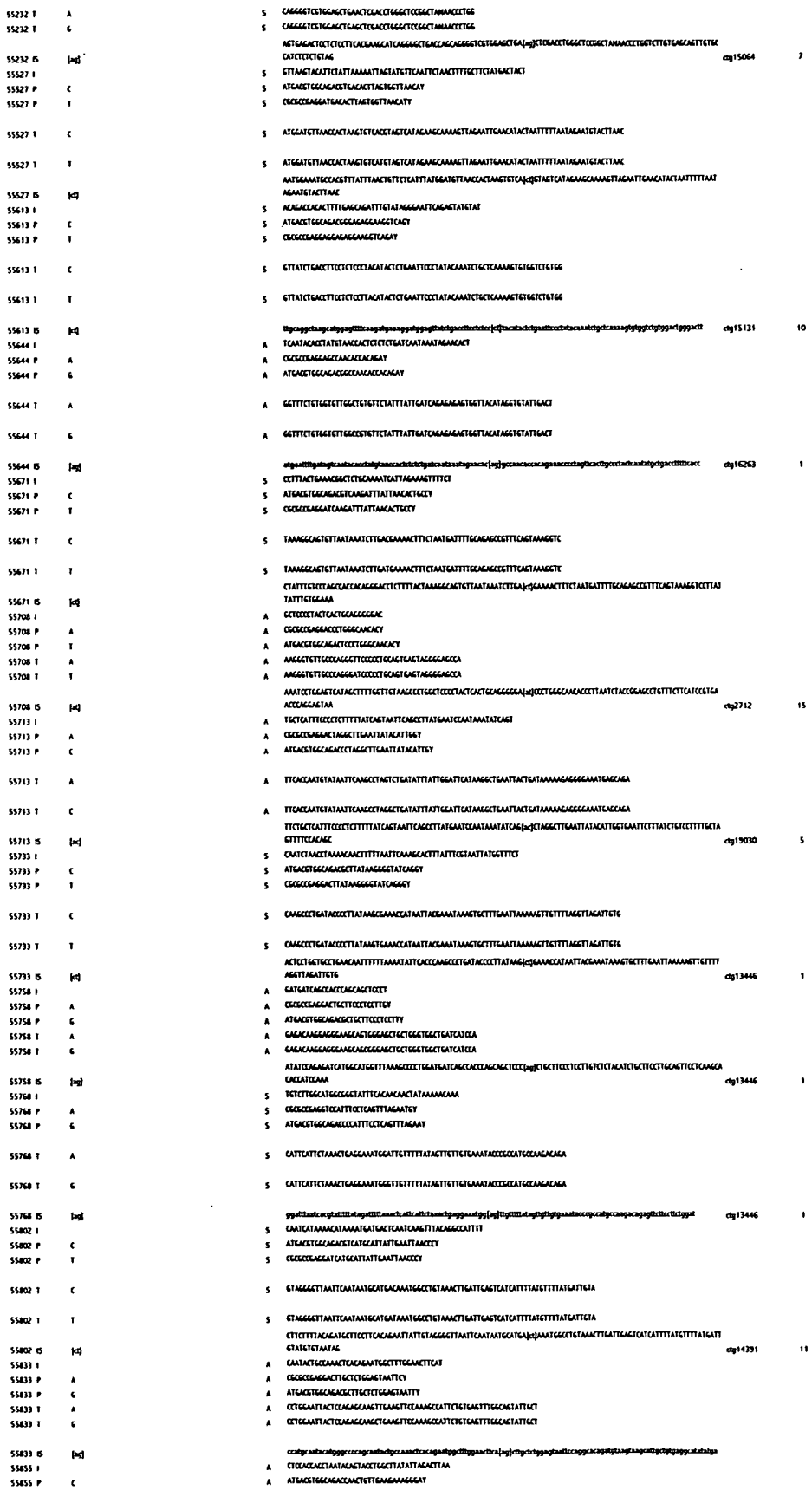
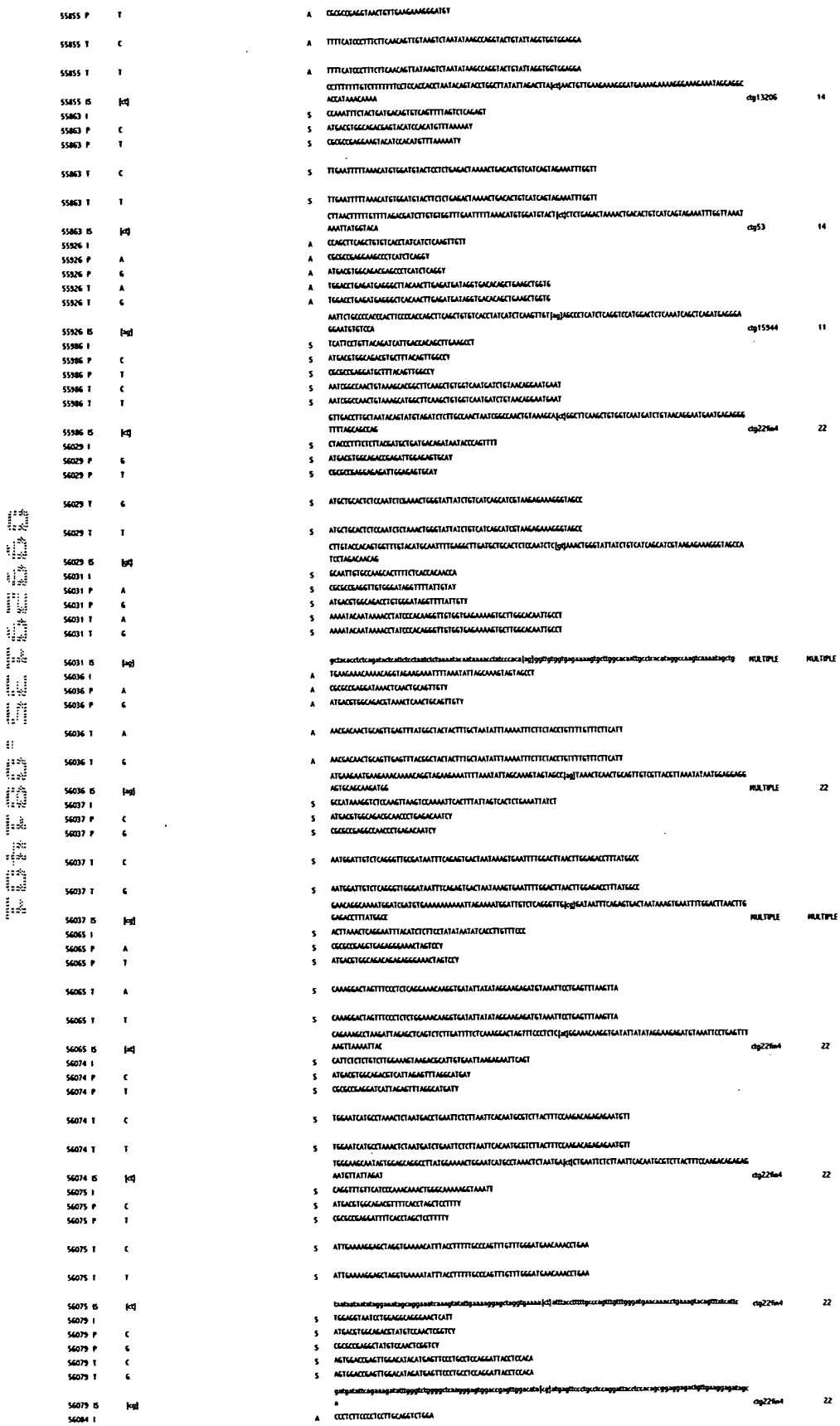


FIGURE 129C





Sequence Listing Page 1 of 1 Filed Herewith

56084 P	C	A	ATGACGTGGCAGACCTGGCCCAAAGTTCCY			
56084 P	T	A	CGCGCCGAGGTTGGCCCAAAGTTCCY			
56084 T	C	A	AGTGGGAACTTTGGGCCAGCCAGACCTGCAAGGAGGGGGAAGAGGCT			
56084 T	T	A	AGTGGGAACTTTGGGCCAACCAGACCTGCAAGGAGGGGGAAGAGGCT			
56084 IS	[ct]		aatcattagcagcatttgttagctttaatctccagccctcttccccctcttgcagggtctgg[ct]tggcccaaagttcccactctgggggttttgtggttgcgtctttctgtgcaccagccccc atc	ctg22fin7	22
56092 I		A	GTATTTATGAGATGTTCAAATTTTTCATATATTAATATTTGTTAAATCAATTGCATTTTGT			
56092 P	A	A	CGCGCCGAGGAAATGGGGATATGATTTTGAAAAY			
56092 P	G	A	ATGACGTGGCAGACGAATGGGGATATGATTTTGAAAAY			
56092 T	A	A	TACTTTTTCAAAATCATATCCCCATTTCAAAATGCAATTGATTTAACAAATATTAATATATGAAAAATTTCAACATCTCATAAATAC			
56092 T	G	A	TACTTTTTCAAAATCATATCCCCATTTCCAAAATGCAATTGATTTAACAAATATTAATATATGAAAAATTTCAACATCTCATAAATAC			
56092 IS	[ag]		gtacttatgagagatgttgaaacttttcatatattaatatttgttaaatcaattgcatttttg[ag]aatgggggatatgatttttgaaaaagtatatttcaccacatttcaattgtgaatttcttgattgc			
56109 I		S	AGCCGACTAGGTCAGTCGATAAAAGGCCAGAATTAGAACAT			
56109 P	C	S	ATGACGTGGCAGACGTCATATCTATACTGAATAGAGGTGY			
56109 P	T	S	CGCGCCGAGGATCATATCTATACTGAATAGAGGTGY			
56109 T	C	S	CAGCCACCTCTATTCAGTATAGATATGACTGTTCTAATTCTGGCCTTTTATCACTCACCTAGTCGGCTAA			
56109 T	T	S	CAGCCACCTCTATTCAGTATAGATATGATTGTTCTAATTCTGGCCTTTTATCACTCACCTAGTCGGCTAA			
56109 IS	[ct]		aaatccttgtgggtcttctgttgcatccattaccccagccacctctattcagtatagatatga[ct]tgttctaattctggccttttatcactcaccctagtcggctaaccaacctaattgtgatccccc			
56110 I		S	GCAAAGGCTACAGTACTCTTTCACACCCTTCTCTGT			
56110 P	C	S	ATGACGTGGCAGACGCTCCAGGAACAATTTTGY			
56110 P	T	S	CGCGCCGAGGACTCCAGGAACAATTTTGGY			
56110 T	C	S	TCATCCAAAATTGTTCCTGGAGCCAGAGAAGGGTGTGAAAGAGTACTGTAGGCCTTTGCTA			
56110 T	T	S	TCATCCAAAATTGTTCCTGGAGTCAGAGAAGGGTGTGAAAGAGTACTGTAGGCCTTTGCTA			
56110 IS	[ct]		ACTTTAACACAGAAAATTTACTGTTTTTCAACCATCCTCATCCAAAATTGTTCCTGGAG[ct]CAGAGAAGGGTGTGAAAGAGTACTGTAGGCCTTTGCTACCAGTAACT TCATTAGAGTTAA			
56119 I		A	CCAGCAGGGACTTGGGCTCCTGTATGTTTTTT			
56119 P	A	A	CGCGCCGAGGATCTGCCCATCTTCAACTTGY			
56119 P	C	A	ATGACGTGGCAGACCTCTGCCATCTTCAACTTY			
56119 T	A	A	ATTGCAAGTTGAAGATGGCAGATAAAAACATACAGGAGCCCAAGTCCCTGCTGGCC			
56119 T	C	A	ATTGCAAGTTGAAGATGGCAGAGAAAAACATACAGGAGCCCAAGTCCCTGCTGGCC			
56119 IS	[ac]		gggtgggggtgtgggtgctggtccatgggggccagcagggactgggctccttgtatgttttt[ac]ctgccatcttcaactttcacagcattgttccaaaaagactgttcaccttcagc	ctg28058	3
56143 I		A	GCAGGTGCCCTGATGGCCAAAGCCT			
56143 P	A	A	CGCGCCGAGGAACTGAAATGGAATTAACCTCAY			
56143 P	G	A	ATGACGTGGCAGACGACTGAAATGGAATTAACCTCAY			
56143 T	A	A	AAAATGAGGTTAATTCCATTTCAGTTGGCTTTGGCCATCAGGGCACCTGCAT			
56143 T	G	A	AAAATGAGGTTAATTCCATTTCAGTCGGCTTTGGCCATCAGGGCACCTGCAT			
56143 IS	[ag]		AGCAAATCTATAAGCAGAGGTCACAATGGAAAAGATGCAGGTGCCCTGATGGCCAAAGCC[ag]ACTGAAATGGAATTAACCTCATTTTACTCAGCGAGGCAGAGGAAT ATTCTGTGTTTACA			
56154 I		S	TGTGCAGCAAAGCTCTAGATGTGTAATAACTTCAACTGTAC			
56154 P	A	S	CGCGCCGAGGTGACCAAAATATAGCTTCCCY			
56154 P	C	S	ATGACGTGGCAGACGACCAAAATATAGCTTCCCY			
56154 T	A	S	TATAGGGAAGCTATATTTTGGTCATACAGTTGAAGTTATTACACATCTAGAGCTTTCCTCCACATT			
56154 T	C	S	TATAGGGAAGCTATATTTTGGTCCTACAGTTGAAGTTATTACACATCTAGAGCTTTCCTCCACATT			
56154 IS	[ac]		TAACTGTCCTTTCTTTTCTATTTTCTCTTCTGATCTTTATAGGGAAGCTATATTTTGGTC[ac]TACAGTTGAAGTTATTACACATCTAGAGCTTTCCTCCACATTCTGTTA TACATAGCGTTG	ctg15131	10
56168 I		S	CAGTGCAGTCAAAAATGTTTGAACTGTTGAATGTTTAAATGAAATGTTTGAACCTATT			
56168 P	C	S	ATGACGTGGCAGACGCCAACACATATTTATCATTGCY			
56168 P	T	S	CGCGCCGAGGACCAACACATATTTATCATTGCY			
56168 T	C	S	AAAAGCAATGATAAATATGTGTTGGGATAGGTTCAAACATTTCATTTAAACATTCAACAGTTCAAACATTTTTGACTGCACTGGA			
56168 T	T	S	AAAAGCAATGATAAATATGTGTTGGTATAGGTTCAAACATTTCATTTAAACATTCAACAGTTCAAACATTTTTGACTGCACTGGA			
56168 IS	[ct]		tgatcttagagaaggagaatttttgcccctaggttctaaaagcaatgataaatatgtgttgg[ct]atagattcaaacatttcatttaaacattcaacagttcaaacatttttgactgcactggaa	ctg13446	1
56181 I		A	GCTTGGTTTCTTTTGAAAGAAGGTCACTGTAATGTGATAAGTATATAAGGATGCAT			
56181 P	A	A	CGCGCCGAGGAGAACTAGAAATGAAAGCAAAACY			
56181 P	G	A	ATGACGTGGCAGACGGAACTAGAAATGAAAGCAAAACY			
56181 T	A	A	TATAGTTTTCCTTTCATTTCTAGTTCTTGCATCCTTATATACTTATCACATTACAGTGACCTTCTTTCAAAAGAAACCAAGCGG			
56181 T	G	A	TATAGTTTTCCTTTCATTTCTAGTTCCTGCATCCTTATATACTTATCACATTACAGTGACCTTCTTTCAAAAGAAACCAAGCGG			
56181 IS	[ag]		GTTCCGCTTGGTTTCTTTTGAAAGAAGGTCACTGTAATGTGATAAGTATATAAGGATGCA[ag]GAACTACAAATGAAAGCAAAACTATACAGACATGTTTTATGAAGG AAGGATAGATCATCT	ctg13446	1
56269 I		A	CTTGAGGGTATAGCTTTTTGGGCTCCCAACT			
56269 P	A	A	CGCGCCGAGGATTATGCGAAAGAGATTCACTATGAY			
56269 P	C	A	ATGACGTGGCAGACCTTATGCAAAGAGATTCACTATGAY			
56269 T	A	A	AATCTCATAGTGAATCTCTTTCCATAATGTTGGGAGCCCAAAAGCTATACCCTCAAGAT			
56269 T	C	A	AATCTCATAGTGAATCTCTTTCCATAAGGTTGGGAGCCCAAAAGCTATACCCTCAAGAT			
56269 IS	[ac]		GGGCTGGACTTATTTCTATTTAAAGTGTATCTTGAGGGTATAGCTTTTTGGGCTCCCAAC[ac]TTATGGAAAGAAGATTCACTATGAGATTCCCCATGTTGGGCAGGCTTT GGACTTTGTCTTT	ctg13980	1
56288 I		A	TGGAATTTTATTGACTATATTCATCAGAAATAATTACATGTTTTAATTATTTAAGTAACTT			
56288 P	A	A	CGCGCCGAGGATGAACTTTGCCTATGAAACAY			
56288 P	C	A	ATGACGTGGCAGACCTGAACTTTGCCTATGAAACY			
56288 T	A	A	ATATTGTTTCATAGGCAAAGTTCATAGTTACTTAAATAATTAAAACATGTAATTATTTCTGATGAATATAGTCAATAAAATTCCA			
56288 T	C	A	ATATTGTTTCATAGGCAAAGTTCAGAGTTACTTAAATAATTAAAACATGTAATTATTTCTGATGAATATAGTCAATAAAATTCCA			
56288 IS	[ac]		TGGAATTTTATTGACTATATTCATCAGAAATAATTACATGTTTTAATTATTTAAGTAACT[ac]TGAACTTTGCCTATGAAACAATATGATGAAAATGTACTGTCTTTAA AAGGGTATAGGATT	ctg19	19
56298 I		A	CAACCCCAACAAAAGGTGAAAAGATAAAGCCAAGT			
56298 P	A	A	CGCGCCGAGGAAATATTAGGATTTCACTTCCTY			
56298 P	G	A	ATGACGTGGCAGACGCAATATTAGGATTTCACTTCCY			
56298 T	A	A	TAGAGGAAGTGAAATCCTAATATTGTCTTGGCTTTATCTTTCACCTTTTGTTGGGGTTGGA			
56298 T	G	A	TAGAGGAAGTGAAATCCTAATATTGCCTTGGCTTTATCTTTCACCTTTTGTTGGGGTTGGA			
56298 IS	[ag]		CCTTACAAAAGCTAAATGATTTTATCCAACCCCAACAAAAGGTGAAAAGATAAAGCCAAG[ag]CAATATTAGGATTTCACTTCCTTCTATCATATTAAAAGTTAATGT AGTAATAAGAGCAA	ctg15907	6
56300 I		S	TGCTGTTCTCACGTGTGATCAAGTTCAAAGCTGGAT			
56300 P	C	S	ATGACGTGGCAGACGATGCTGTGCTCCCTY			
56300 P	T	S	CGCGCCGAGGAATGCTGTGCTCCCTY			
56300 T	C	S	GAGAAGGCAGCACAGCATCTCCAGCTTTGAACTTGATCACACGTGAGAACAGCAAG			
56300 T	T	S	GAGAAGGCAGCACAGCATTTCCAGCTTTGAACTTGATCACACGTGAGAACAGCAAG			

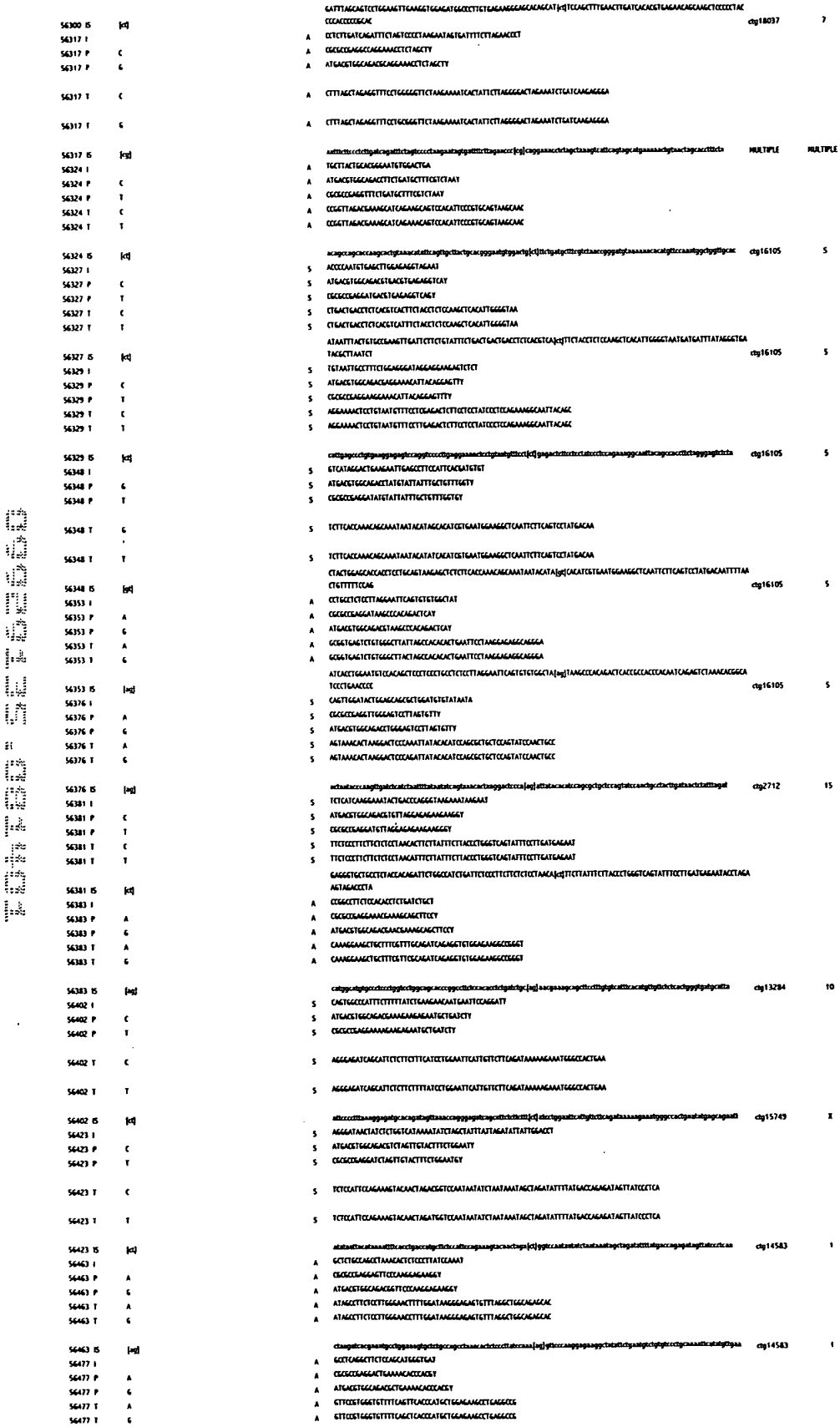
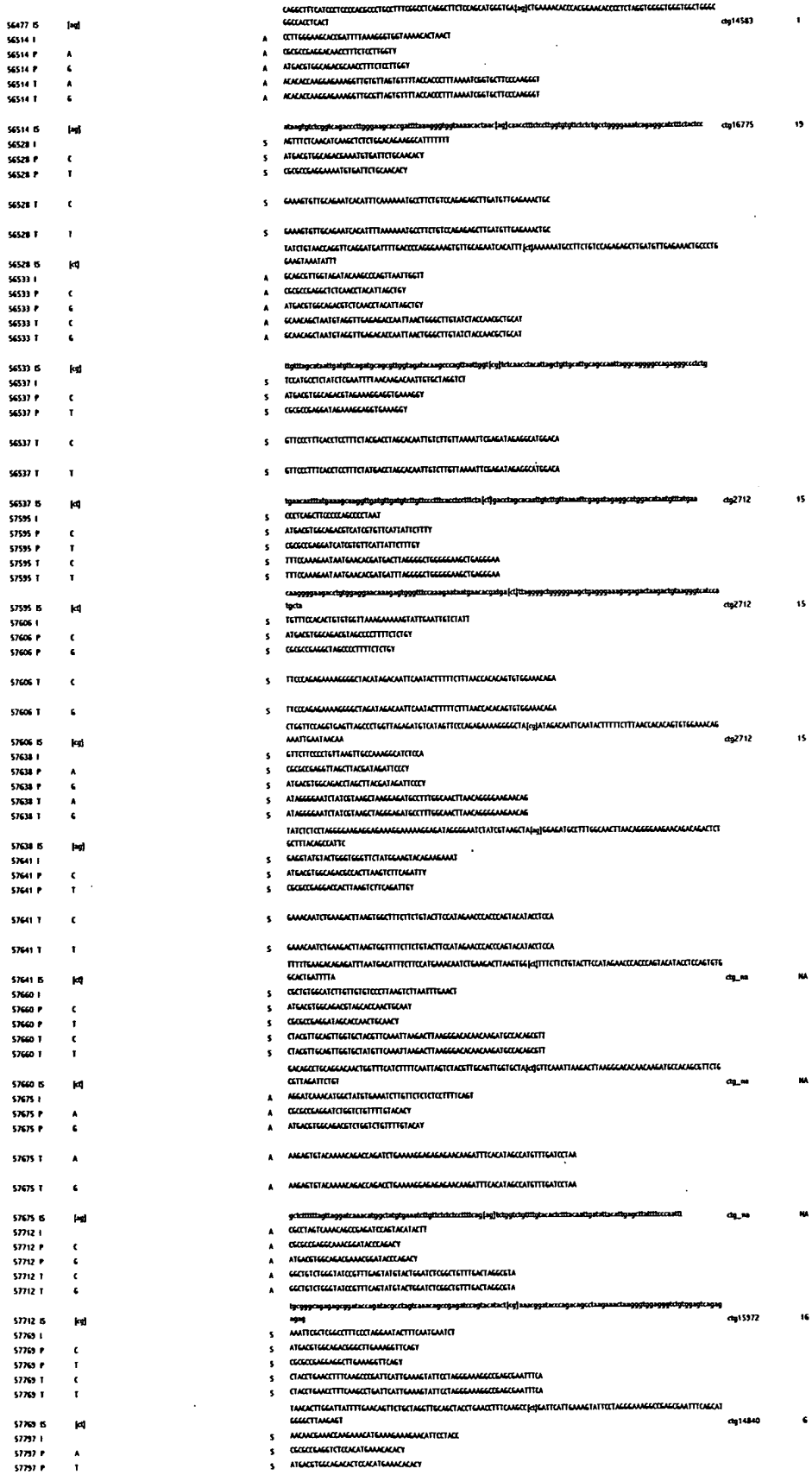
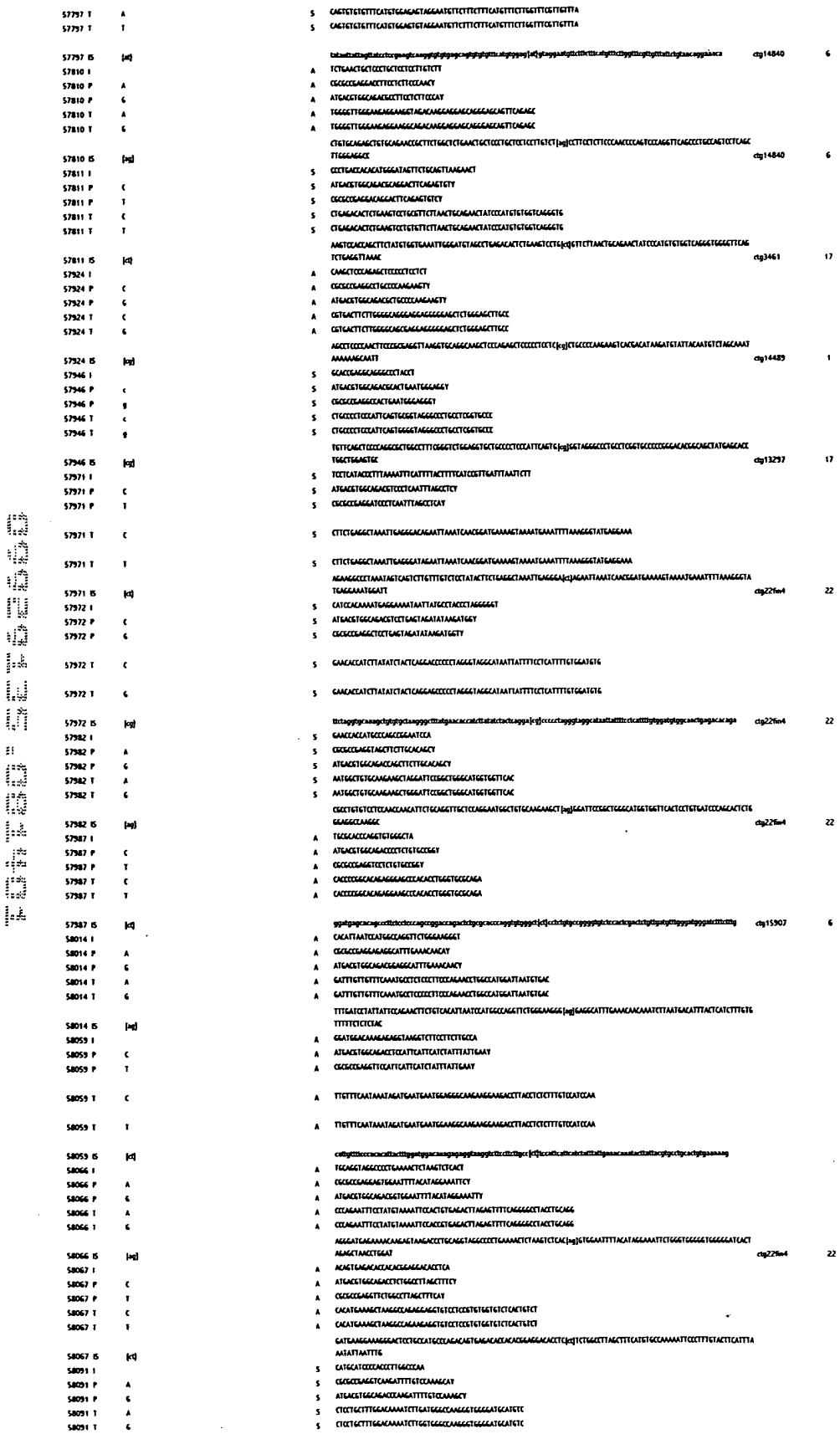
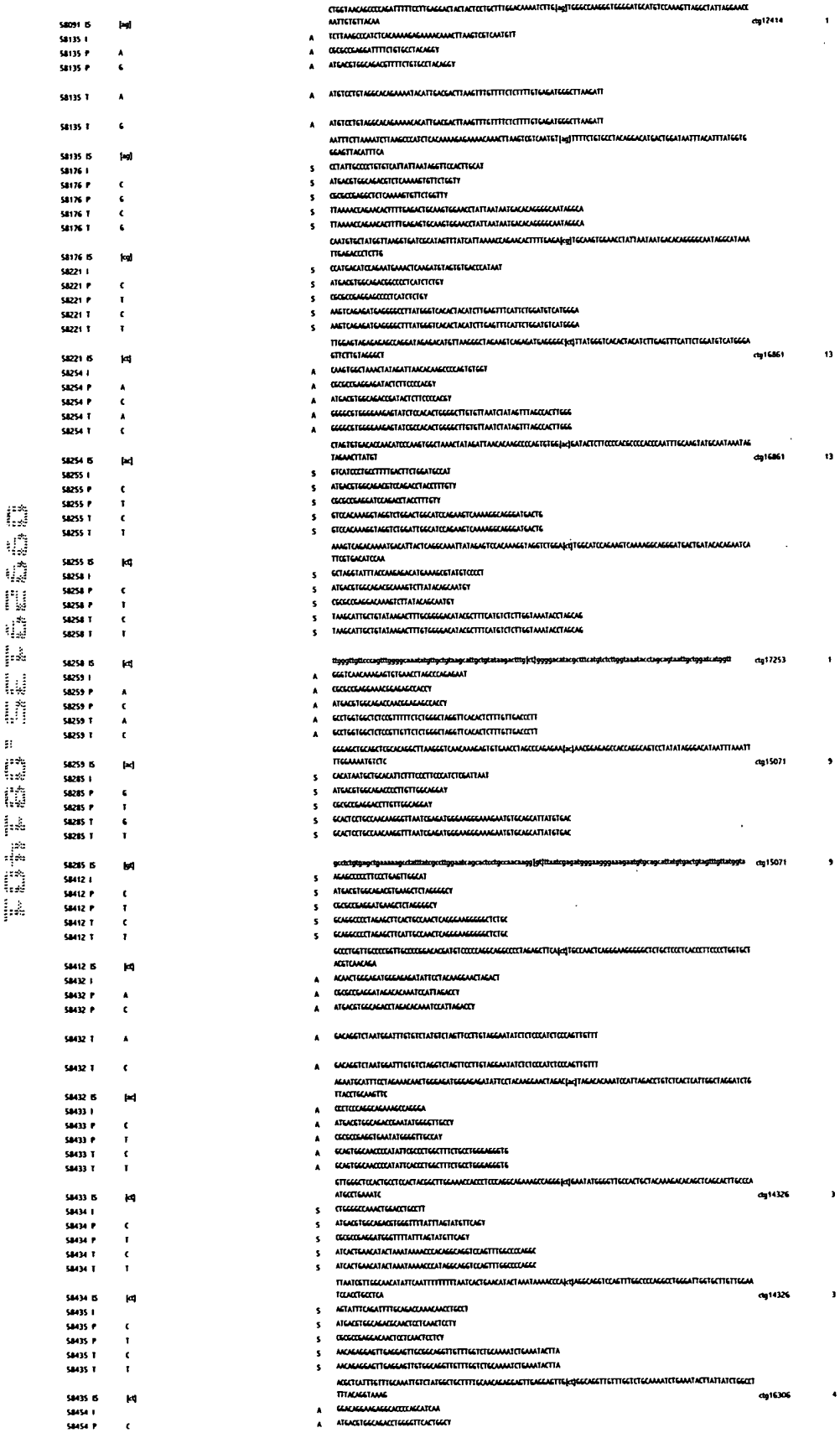


FIGURE 129C







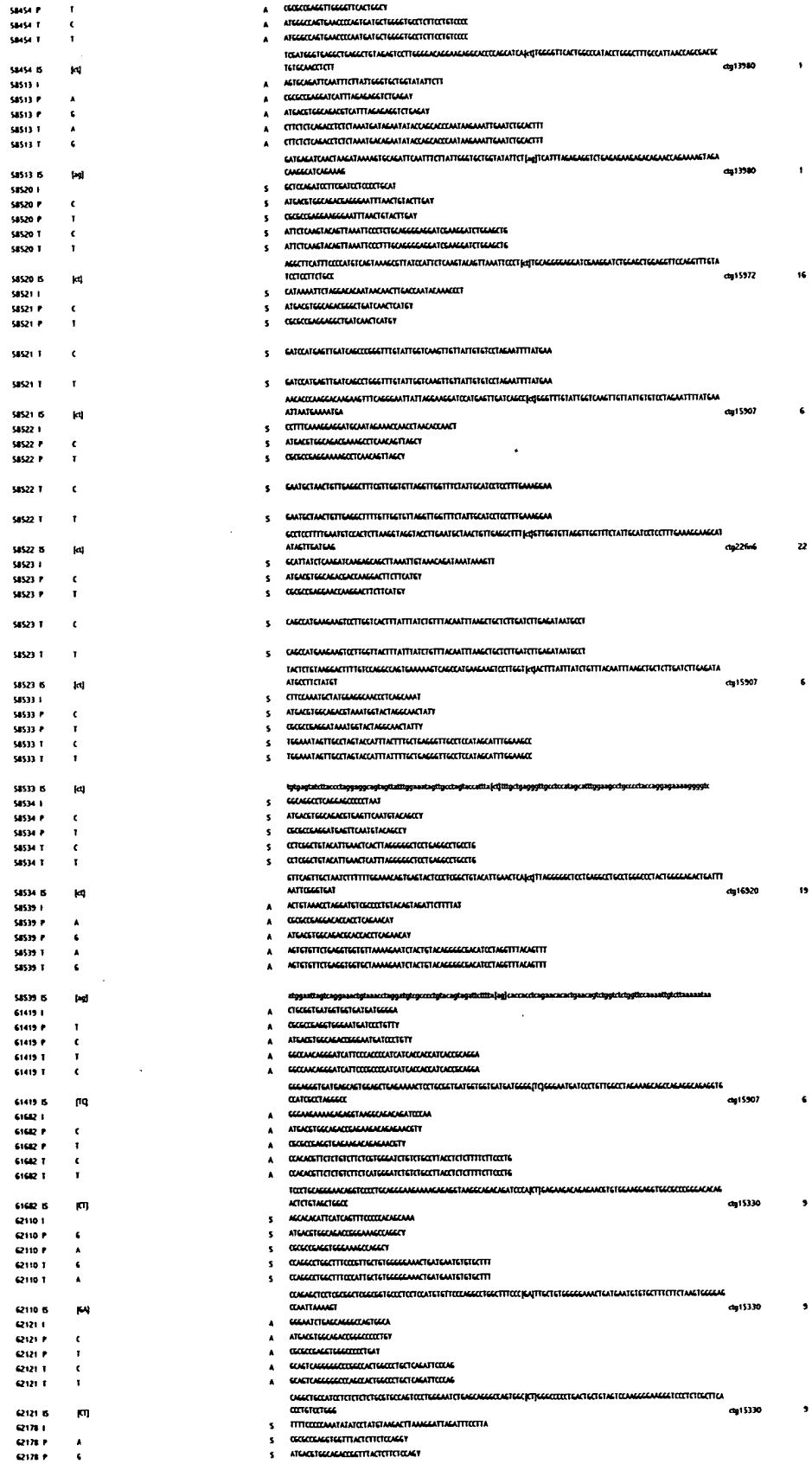
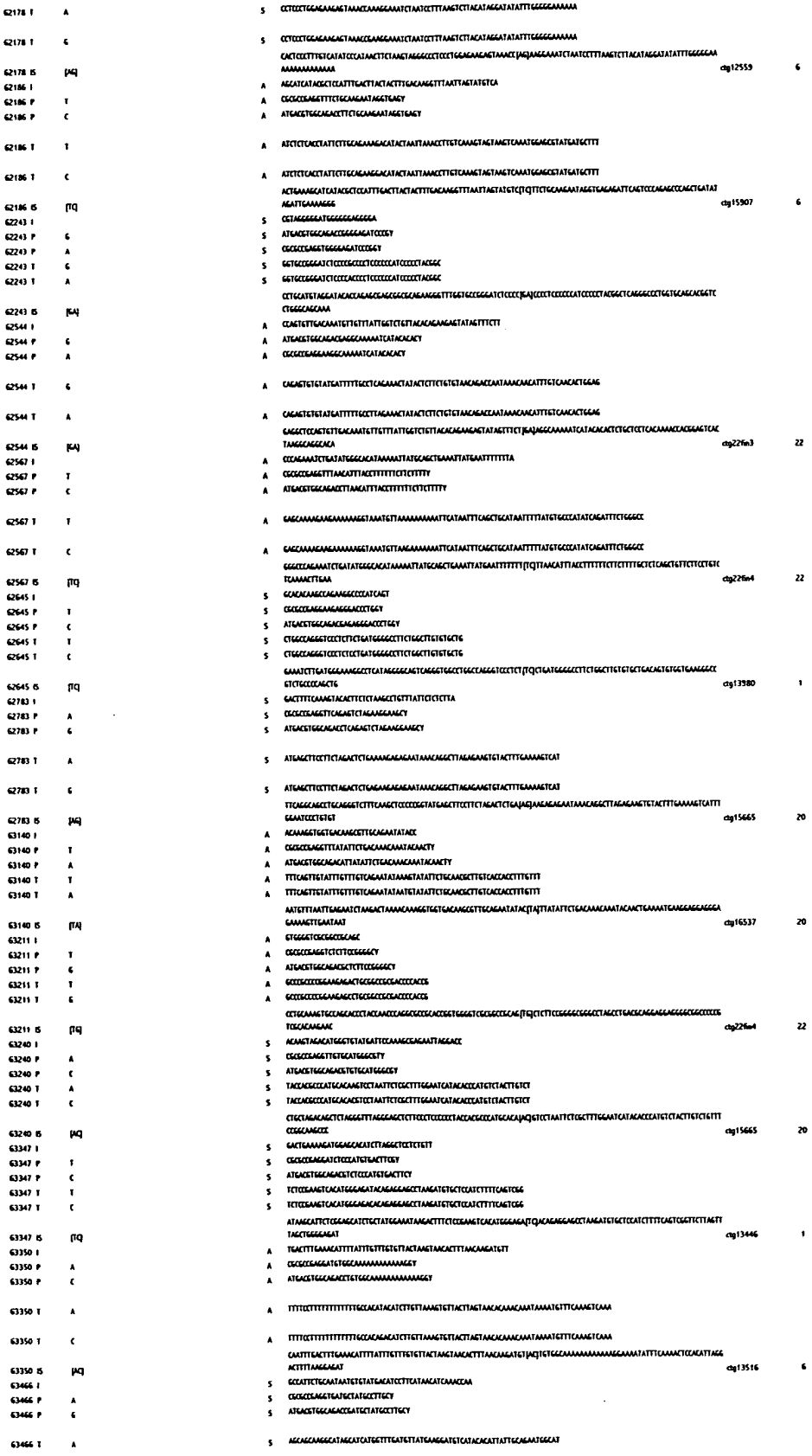
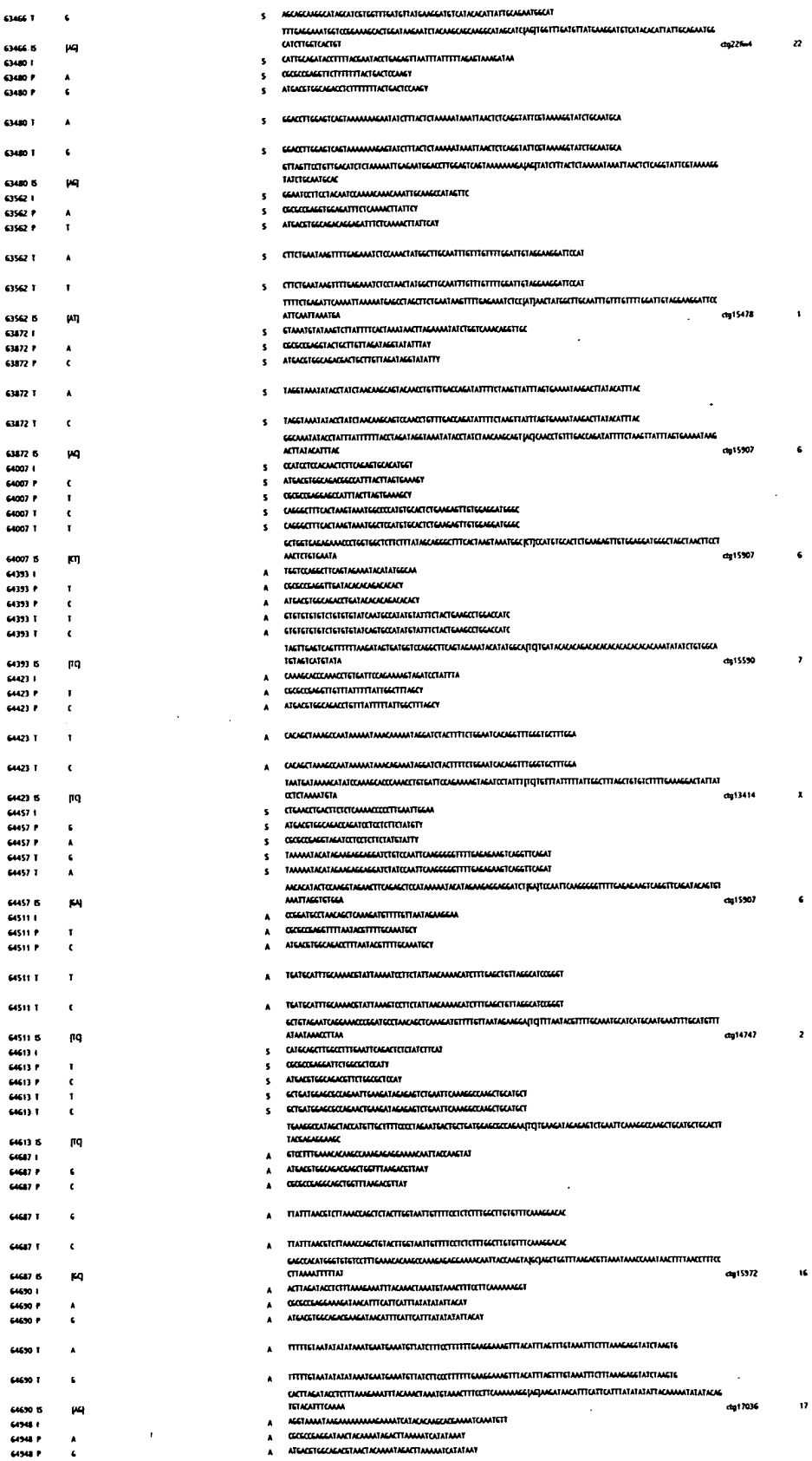
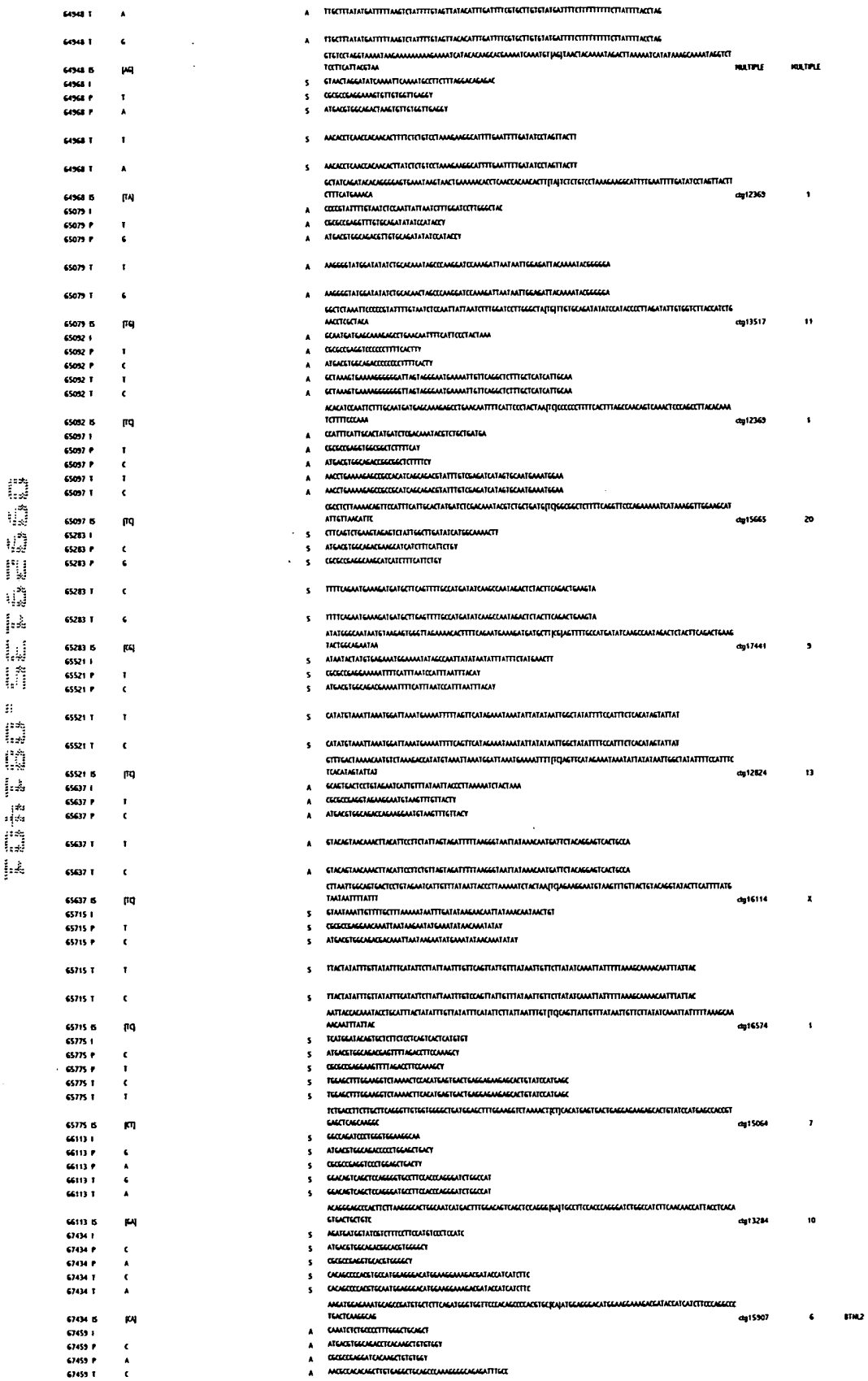
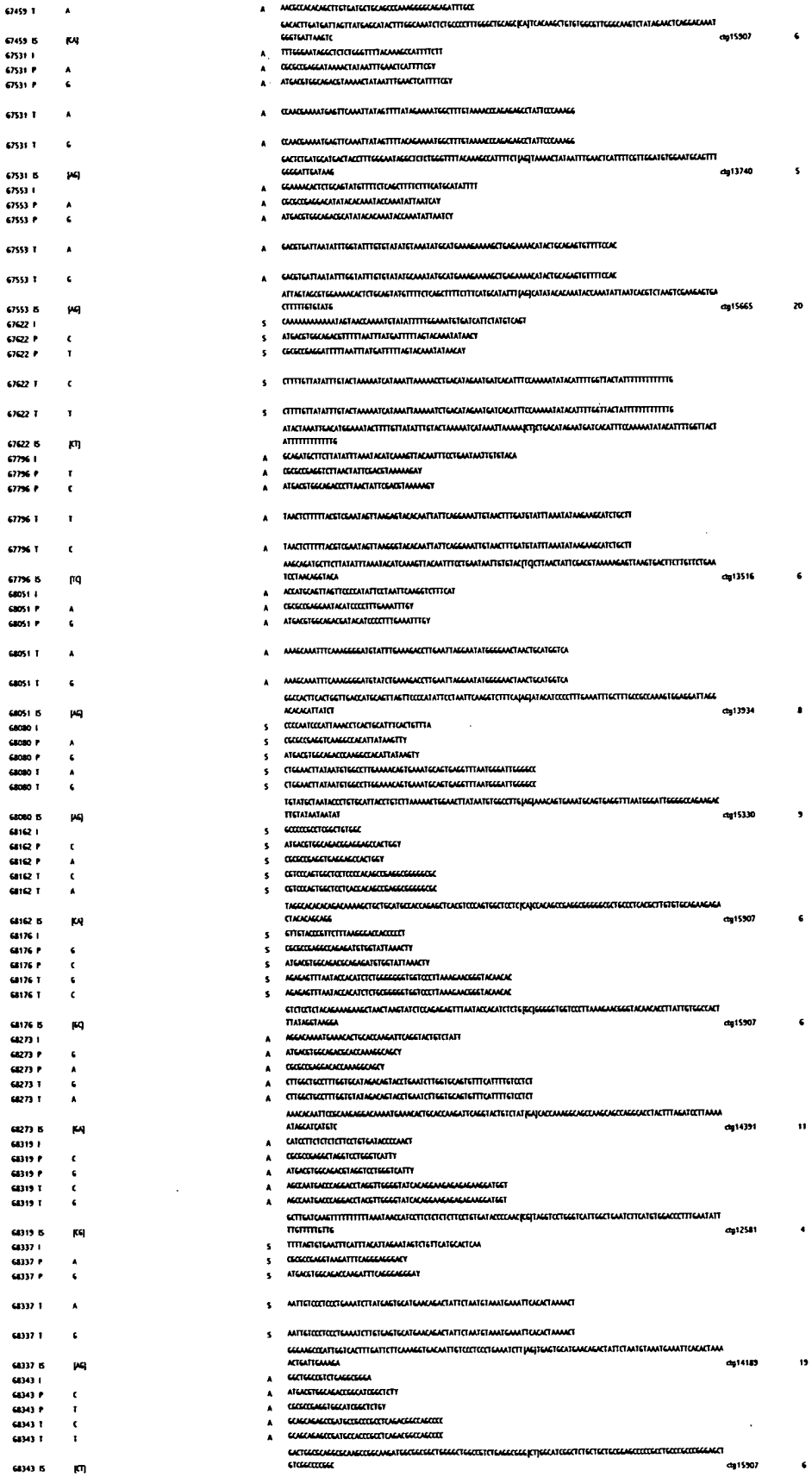


FIGURE 129C









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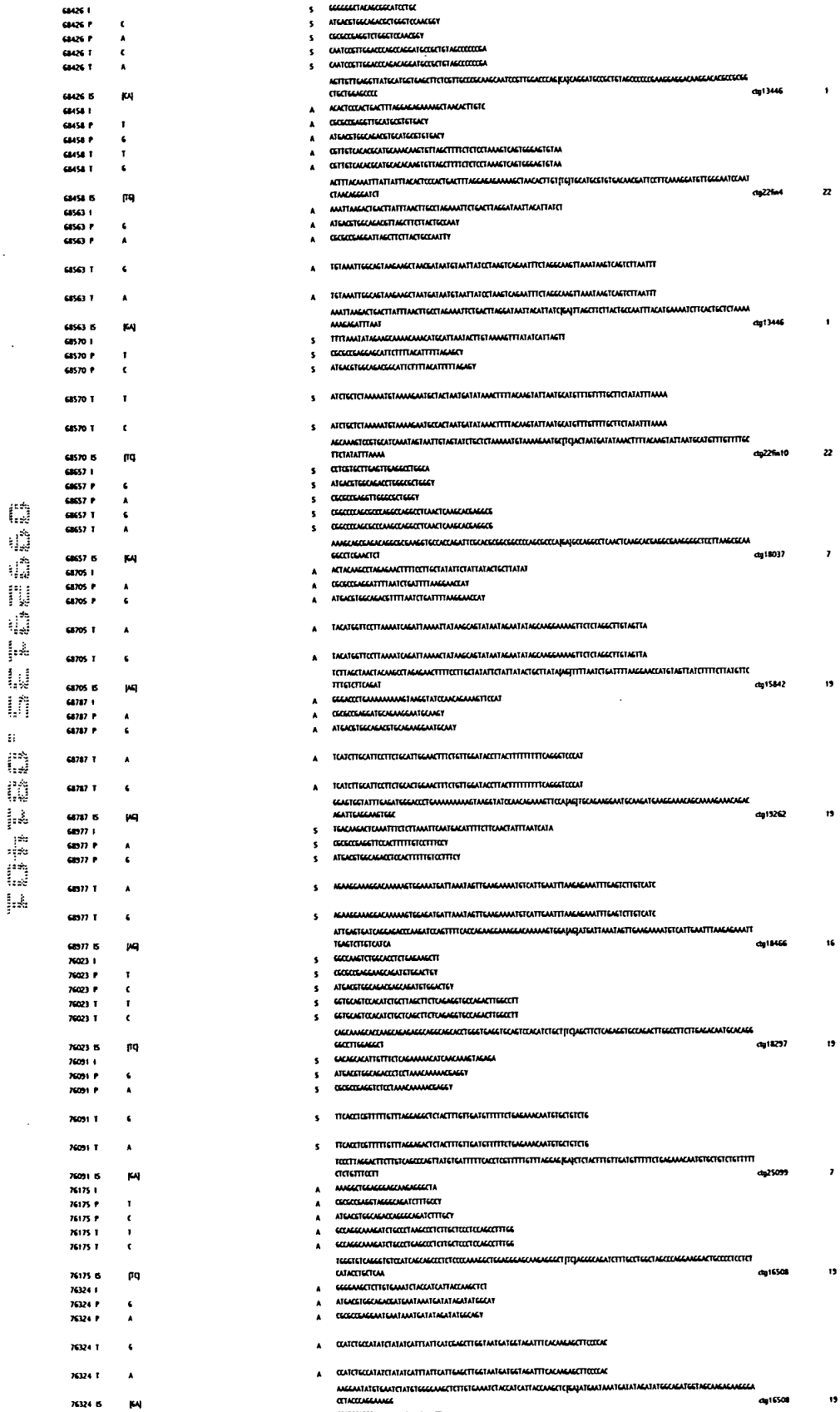
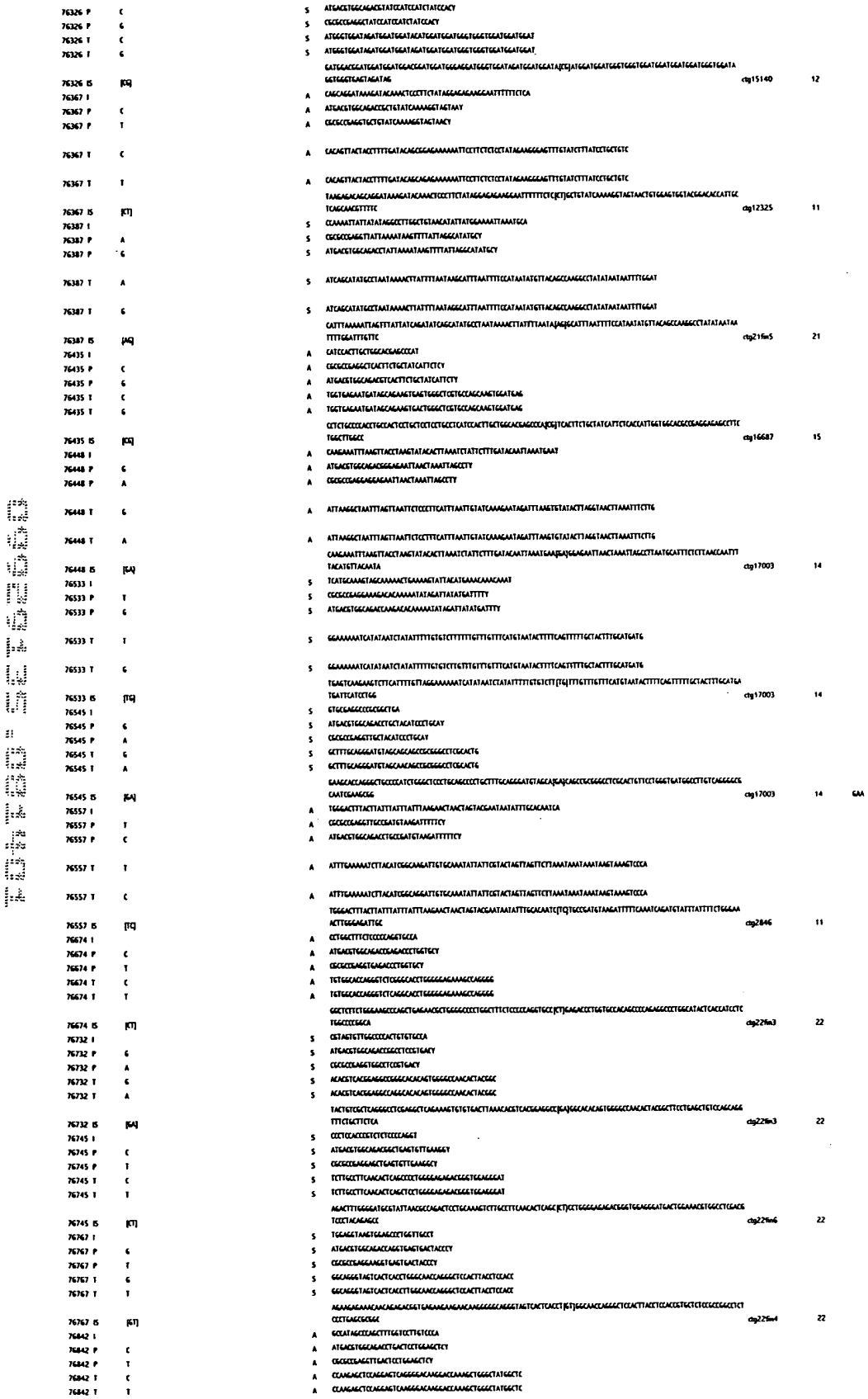
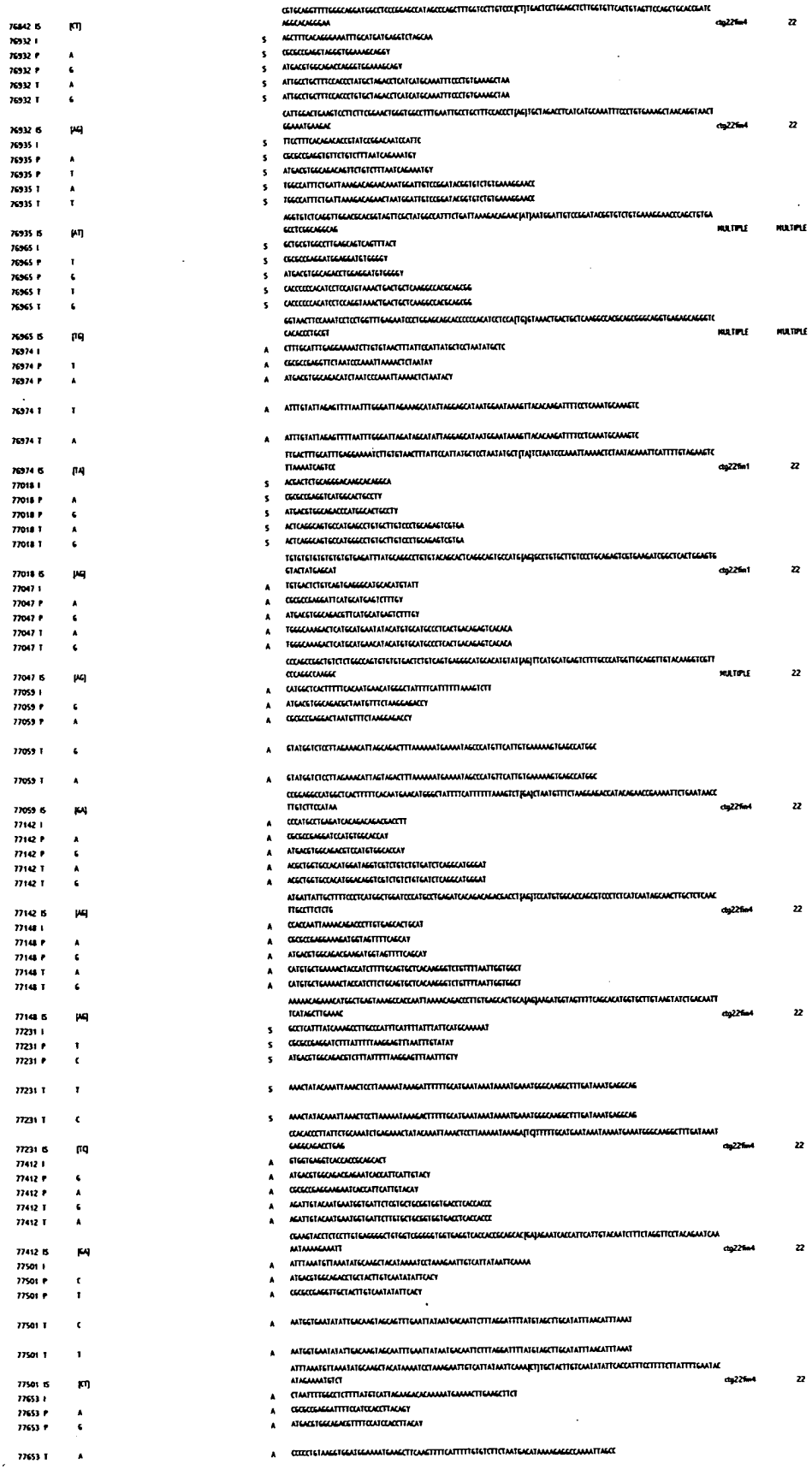


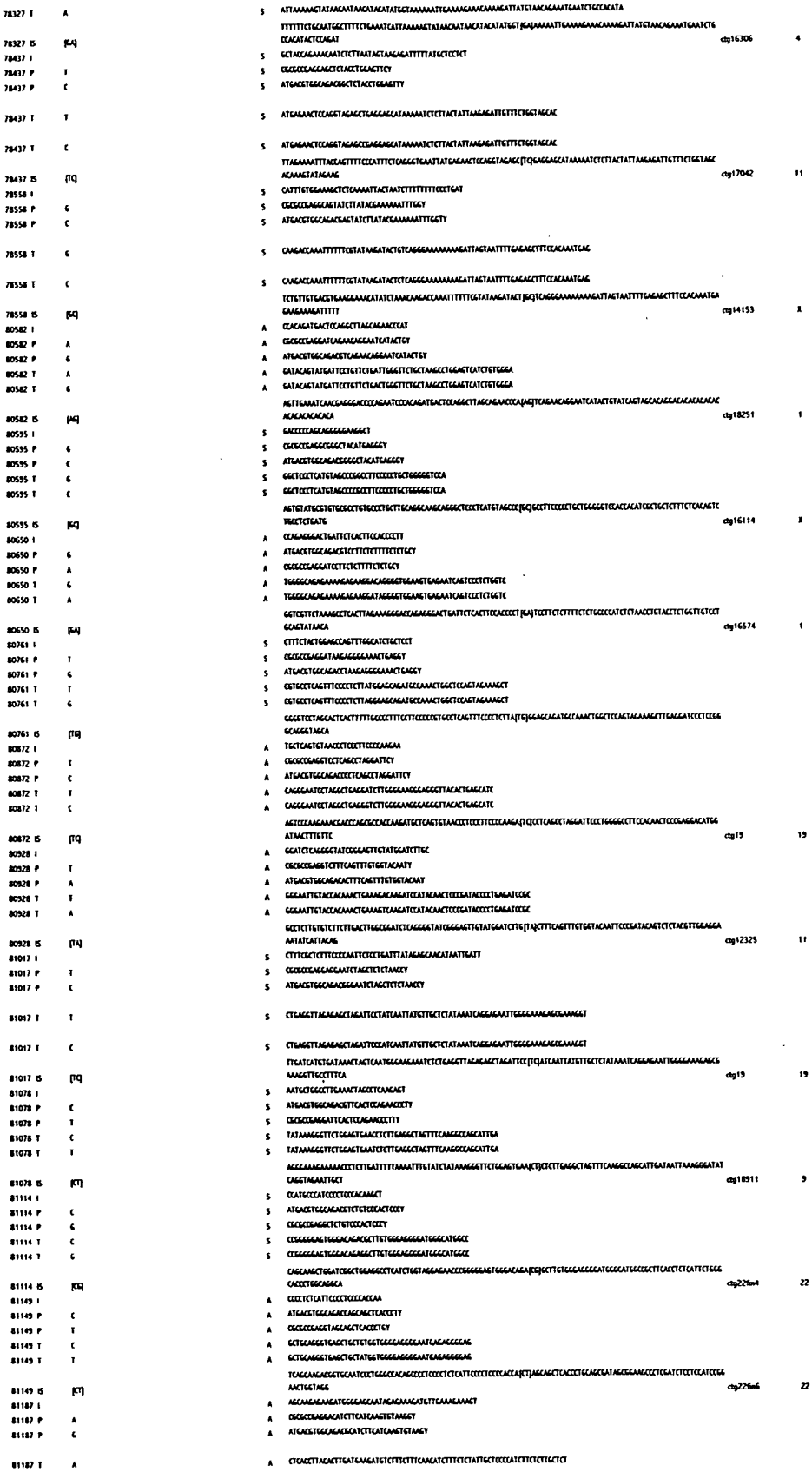
FIGURE 129C

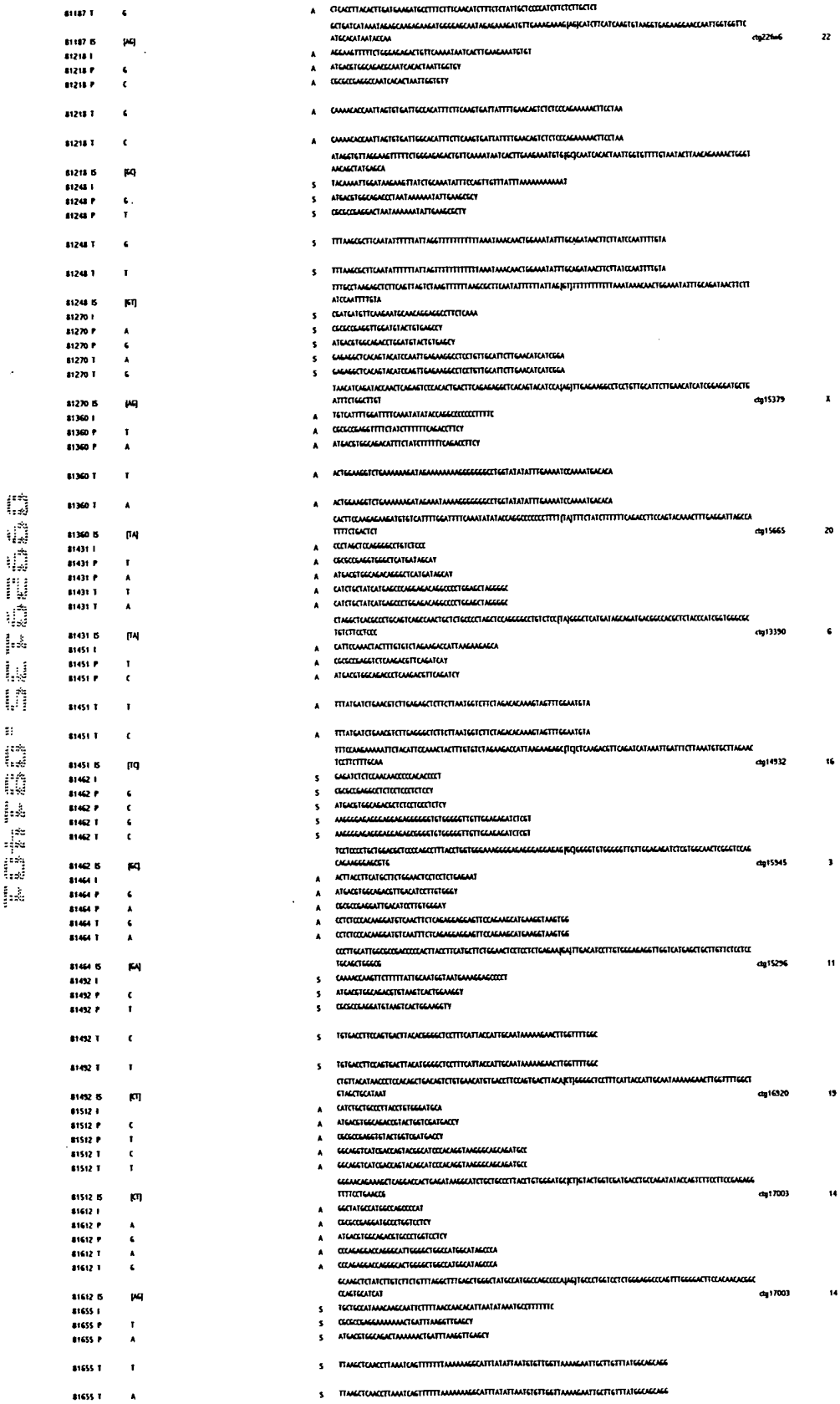




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77683 I		A	TCTTTTCAGTATTGCTTTCAAGGCTCAGGAAGTTTAGTT			
77683 P	A	A	CGCGCCGAGGATAGCTGAGACTTTATTCCCY			
77683 P	G	A	ATGACGTGGCAGACGTAGCTGAGACTTTATTCCCY			
77683 T	A	A	CTGGGGGAATAAAGTCTCAGCTATACTAAACTTCCTGAGCCTTGAAAGCAATACTGAAAAGATT			
77683 T	G	A	CTGGGGGAATAAAGTCTCAGCTACACTAAACTTCCTGAGCCTTGAAAGCAATACTGAAAAGATT			
77683 IS	[AG]		TGCTAACCTTTTTATTTAGGAATCTTTTCAGTATTGCTTTCAAGGCTCAGGAAGTTTAGT[AG]TAGCTGAGACTTTATTCCCCCAGGTCCTGGGTATTTTCTTACCCACTCATCTAAAATCTT	ctg22fin1	22	
77684 I		A	GGCGGGTGCAGCCAGCGCT			
77684 P	G	A	ATGACGTGGCAGACGGCCTAGATGGCGCY			
77684 P	A	A	CGCGCCGAGGAGCCTAGATGGCGCY			
77684 T	G	A	GAAGGCGCCATCTAGGCCGCGCTGGCTGCACCCGCCCA			
77684 T	A	A	GAAGGCGCCATCTAGGCTGCGCTGGCTGCACCCGCCCA			
77684 IS	[GA]		CAGACAGGGCCCGGGCCCTCGGGACTGGGCGGGTGCGGGCCTGGGCGGGTGCAGCCAGCGC[GA]GCCTAGATGGCGCCCTTCGTTGTGCAGGCTGTGGTTGGCCTTACTGTGCGTCACACAGTTC			FLJ20064
77704 I		S	AGCAGGGTGGGGAGACCGTGCTCT			
77704 P	G	S	ATGACGTGGCAGACCGTGCTGCAAGTCAAY			
77704 P	T	S	CGCGCCGAGGAGTGCTGCAAGTCAACY			
77704 T	G	S	GCCGGTTGACTTGCAGCACGGAGCACGGTCTCCCCACCCTGCTTT			
77704 T	T	S	GCCGGTTGACTTGCAGCACTGAGCACGGTCTCCCCACCCTGCTTT			
77704 IS	[GT]		GATGCGAAATCCTTAATCCAATTTACGGCATTCTTGAAATTGCCGGTTGACTTGCAGCAC[GT]GAGCACGGTCTCCCCACCCTGCTTTCCCCCAGATGATACGAGACGTGTTCTCTTGAGATG	ctg22fin4	22	
77740 I		A	CATCCCGCCACCCGAAACACCATCCA			
77740 P	T	A	CGCGCCGAGGTTGCCCCACCTCCY			
77740 P	C	A	ATGACGTGGCAGACCTGCCCCACCTCCY			
77740 T	T	A	CCTGGGAGGTGGGGCAAGGATGGTGTTTCGGGTGGCGGGATGGG			
77740 T	C	A	CCTGGGAGGTGGGGCAGGGATGGTGTTTCGGGTGGCGGGATGGG			
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77752 P	C	S	ATGACGTGGCAGACGCTTGCCTCCTTCTTTAGY			
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77752 T	C	S	TAAGCTAAAGAAGGAGGCAAGCCCAGACCCTCCTGGGAACCCCTGGGT			
77752 T	T	S	TAAGCTAAAGAAGGAGGCAAGTCCAGACCCTCCTGGGAACCCCTGGGT			
77752 IS	[CT]		ATGGCCTACCCCTGGCTGCCTGTGGGAGCAAAGCAGCAGTAAGCTAAAGAAGGAGGCAAG[CT]CCAGACCCTCCTGGGAACCCCTGGGTCTGAAACGCTGGAAAGTAAGACCCAAGGGCCATG			
77804 I		A	TCTTTGCTAATGACGCTGGAAAGCGGCTCCT			
77804 P	A	A	CGCGCCGAGGACTGGCTGCGTTTCTY			
77804 P	C	A	ATGACGTGGCAGACCCTGGCTGCGTTTCY			
77804 T	A	A	GAAGAGAAACGCAGCCAGTGGAGCCGCTTTCCAGCGTCATTAGCAAAGAGG			
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77830 P	A	S	CGCGCCGAGGTGAAAGTGGCTTCAAAGATY			
77830 T	G	S	AAGGATCTTTGAAGCCACTTTCGTCCTTCAAGTATTTTTCAAATAATCTTTTATTGATGGGCTCTTCCATGTCAAGAACAT			
77830 T	A	S	AAGGATCTTTGAAGCCACTTTCATCCTTCAAGTATTTTTCAAATAATCTTTTATTGATGGGCTCTTCCATGTCAAGAACAT			
77830 IS	[GA]		ACTACTTACTGAAGACTGTGACATTTCCCAGTCGCTGGAAGGATCTTTGAAGCCACTTTC[GA]TCCTTCAAGTATTTTTCAAATAATCTTTTATTGATGGGCTCTTCCATGTCAAGAACATCA	ctg16829	1	
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78023 P	C	A	CGCGCCGAGGCTACAGAACTTTGTAAATAAGAAAGCY			
78023 P	G	A	ATGACGTGGCAGACGTACAGAACTTTGTAAATAAGAAAGY			
78023 T	C	A	GTAAGCTTTCTTATTTACAAAGTTCTGTAGTGTTCTACTAGAATATATTATTTCGTTGCAAATTTCGTTGTGGGAACTCTGGGG			
78023 T	G	A	GTAAGCTTTCTTATTTACAAAGTTCTGTACTGTTCTACTAGAATATATTATTTCGTTGCAAATTTCGTTGTGGGAACTCTGGGG			
78023 IS	[CG]		TTTTTTCCCCAGAGTTCCCACAACGAAATTTGCAACGAAATAATATATTCTAGTAGAACA[CG]TACAGAACTTTGTAAATAAGAAAGCTTACTTTTTTGATTCTTCATTTTTCTGTTTTGATG	ctg15972	16	
78056 I		S	CCTCTCCTGTGCATTAGCCATGGCATTTGCTCTTAATTAA			
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78056 P	A	S	CGCGCCGAGGTTGGGAATGTGGCCTY			
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78128 I		S	GGTTCCAGATCTACAAACATGGTCCTGGGCACAC			
78128 P	A	S	CGCGCCGAGGTGCTTTTCAGTGCCTGY			
78128 P	T	S	ATGACGTGGCAGACAGCTTTTCAGTGCCTGY			
78128 T	A	S	GAGACAGGCACTGAAAAGCATGTGCCCAGGACCATGTTTGTAGATCTGGAACCCA			
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78266 I		A	GGCATTTGTGAGGAGGGCTCAGGCCC			
78266 P	G	A	ATGACGTGGCAGACGTTCCCCTCAGGGTGY			
78266 P	T	A	CGCGCCGAGGTTTCCCCTCAGGGTGY			
78266 T	G	A	AGACCACCCTGAGGGGAACGGCCTGAGCCCTCCTCACAAATGCCAT			
78266 T	T	A	AGACCACCCTGAGGGGAAAGGCCTGAGCCCTCCTCACAAATGCCAT			
78266 IS	[GT]		GACAGTCAGAAGCTCAGTGATTGCAGGCGCCTGATGGCATTTGTGAGGAGGGCTCAGGCC[GT]TTCCCCTCAGGGTGGTCTCTGGCGTAGGGGGCTGAAGGTGGGCAGGGGCCTTGGCAAGGC	ctg17253	1	
78323 I		S	TCAATTATCTGTATCCTTGACACAGTTTTTTCAGATCTACTAAAGACTT			
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78323 P	T	S	CGCGCCGAGGATCCTTCTTTGTATTTATTTATATTTCCY			
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FIGURE 129C





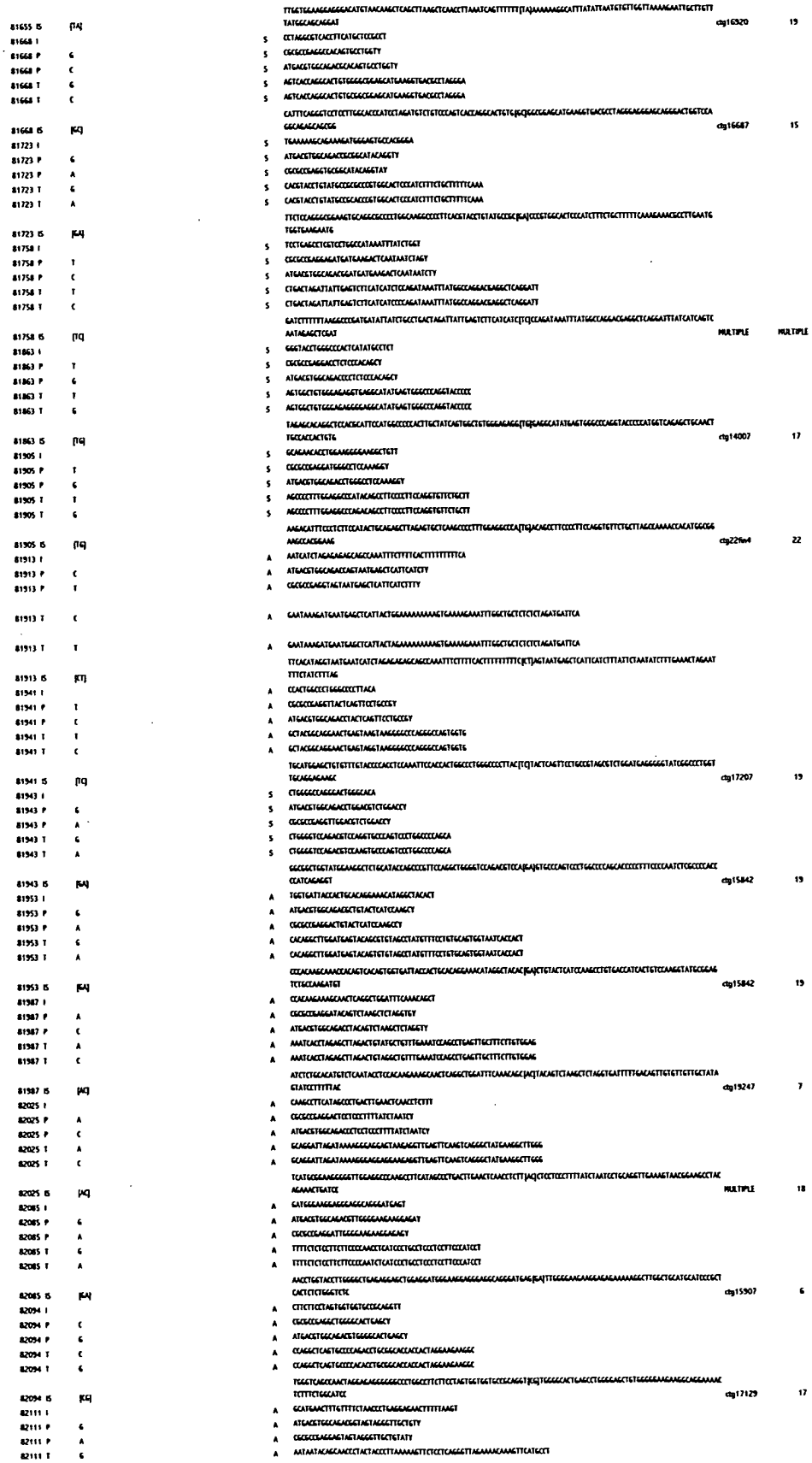
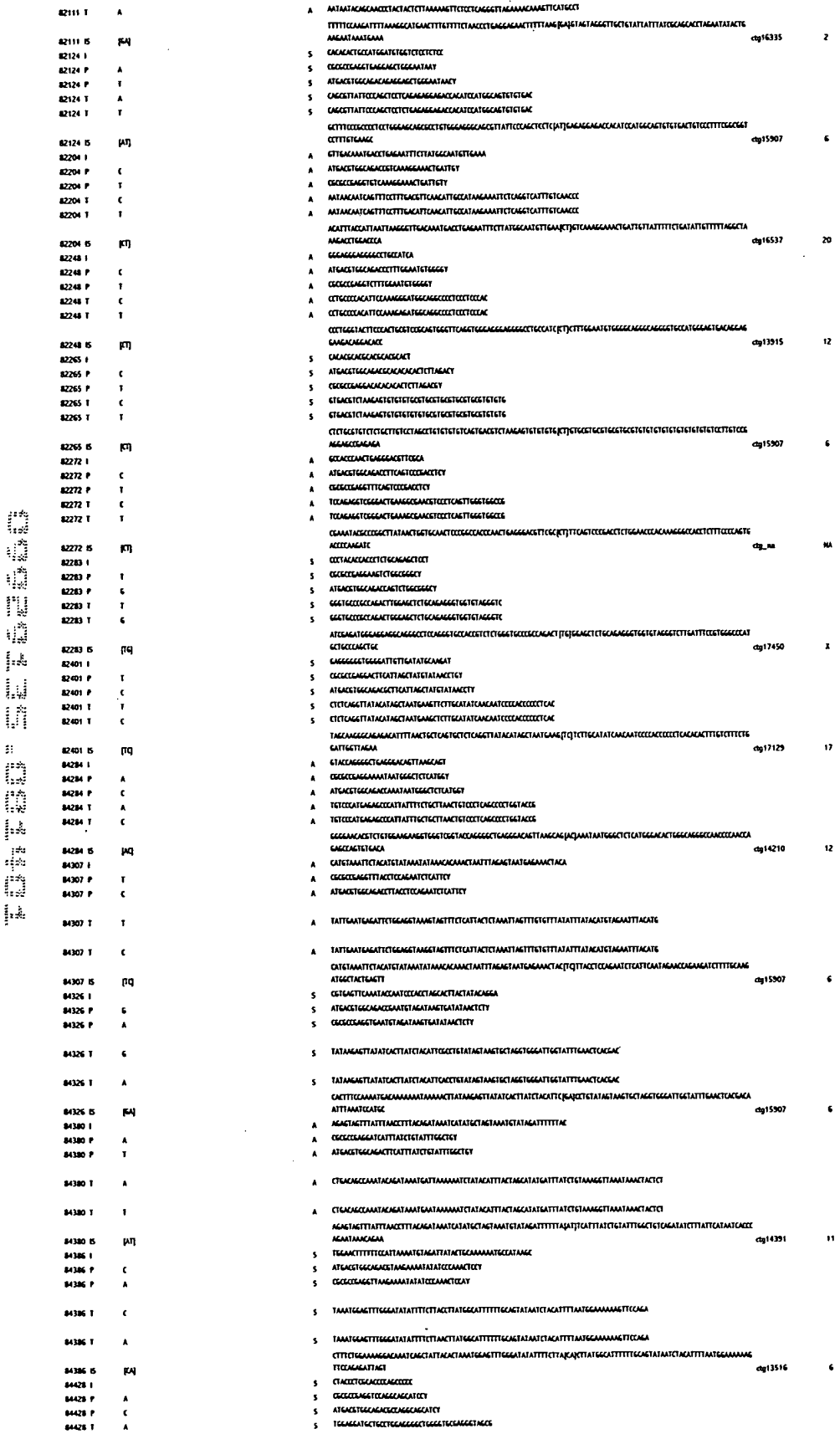
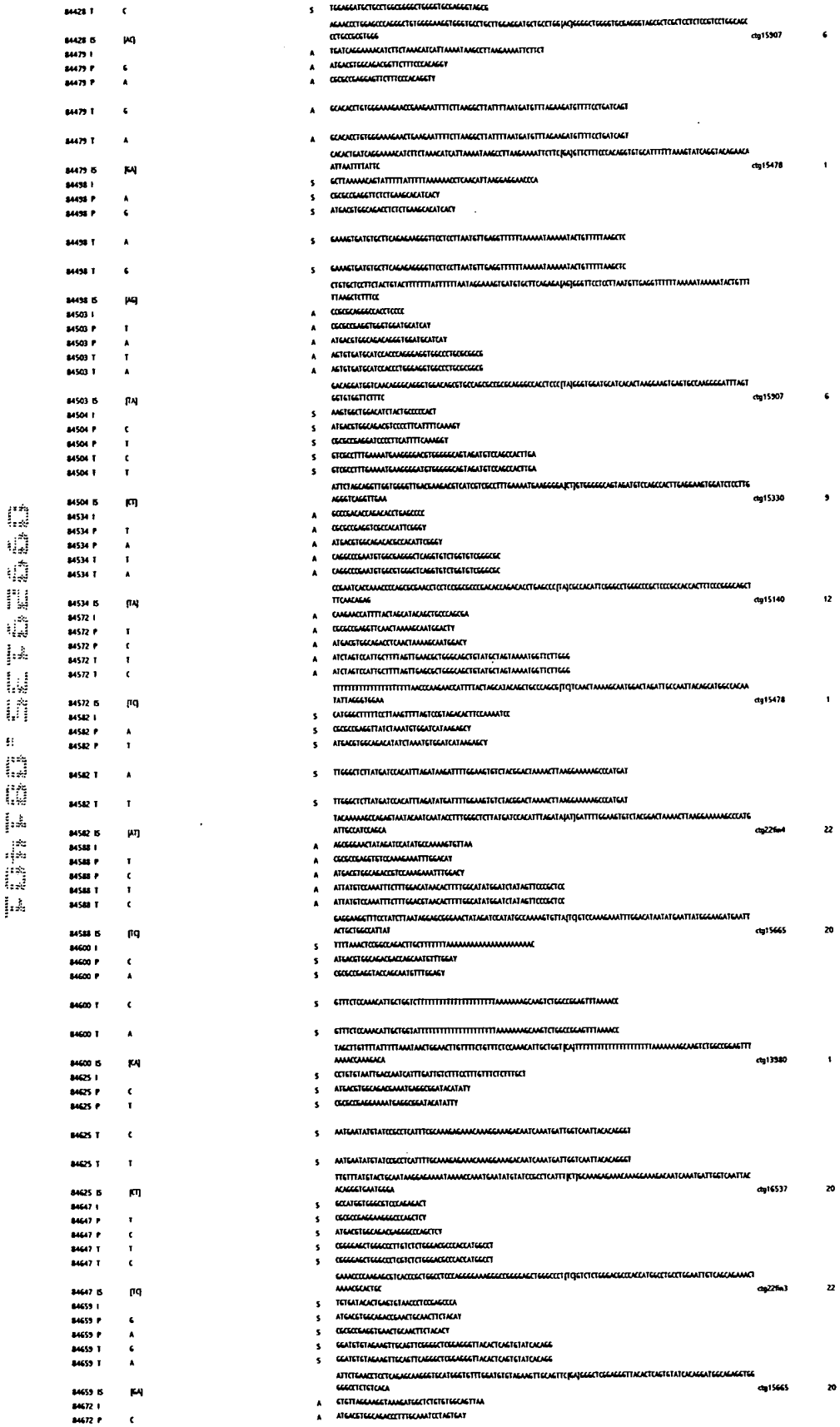
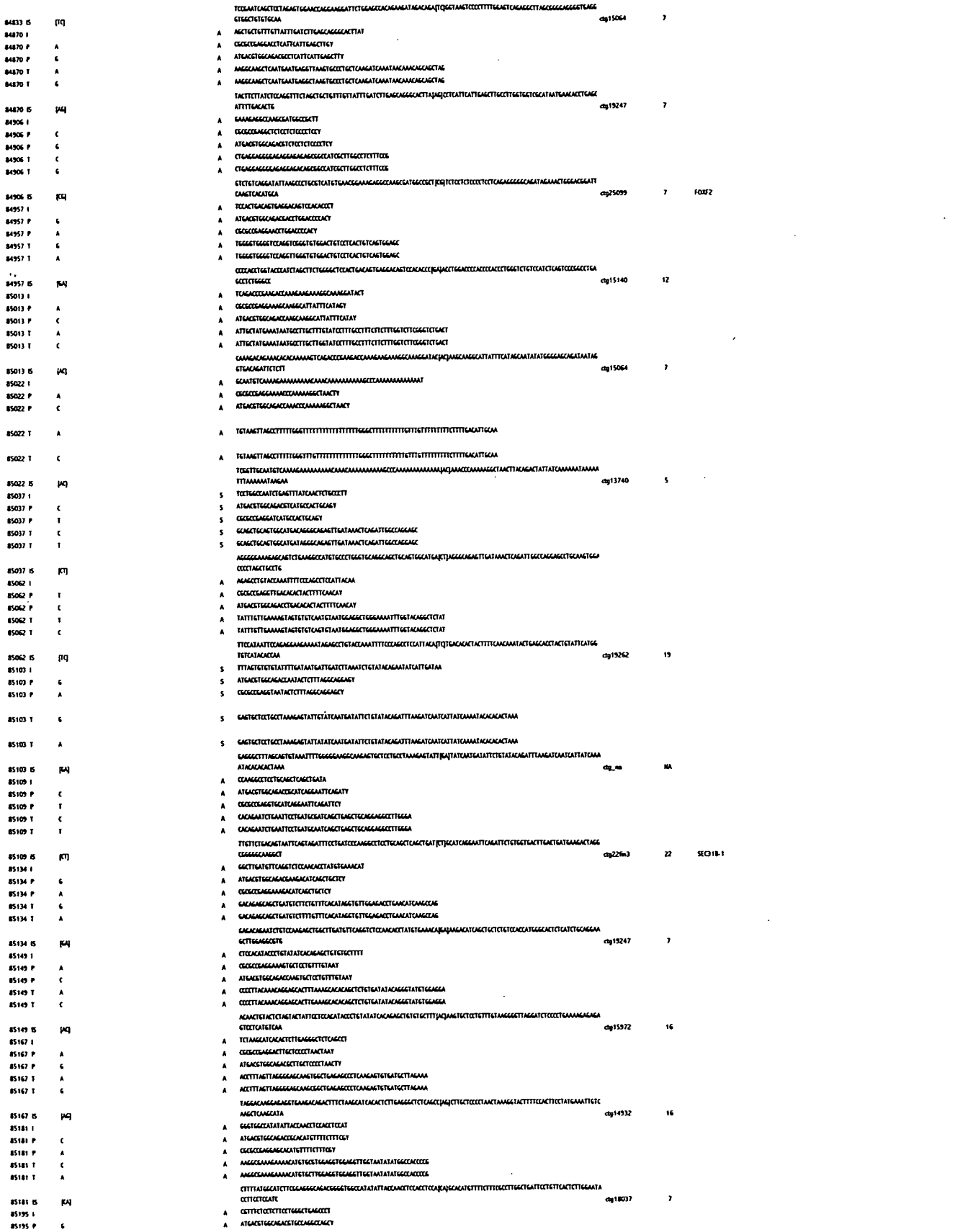


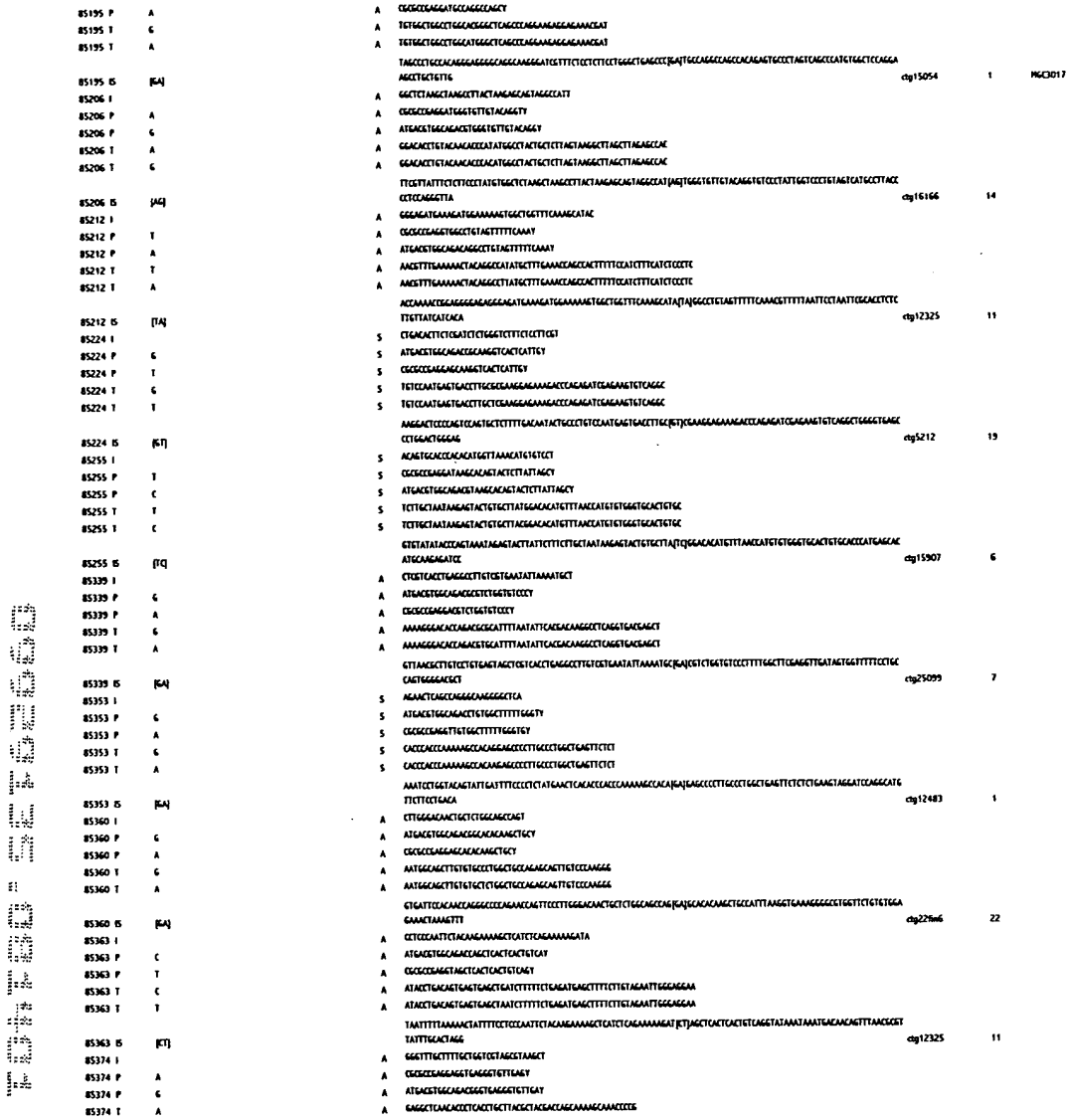
FIGURE 129C

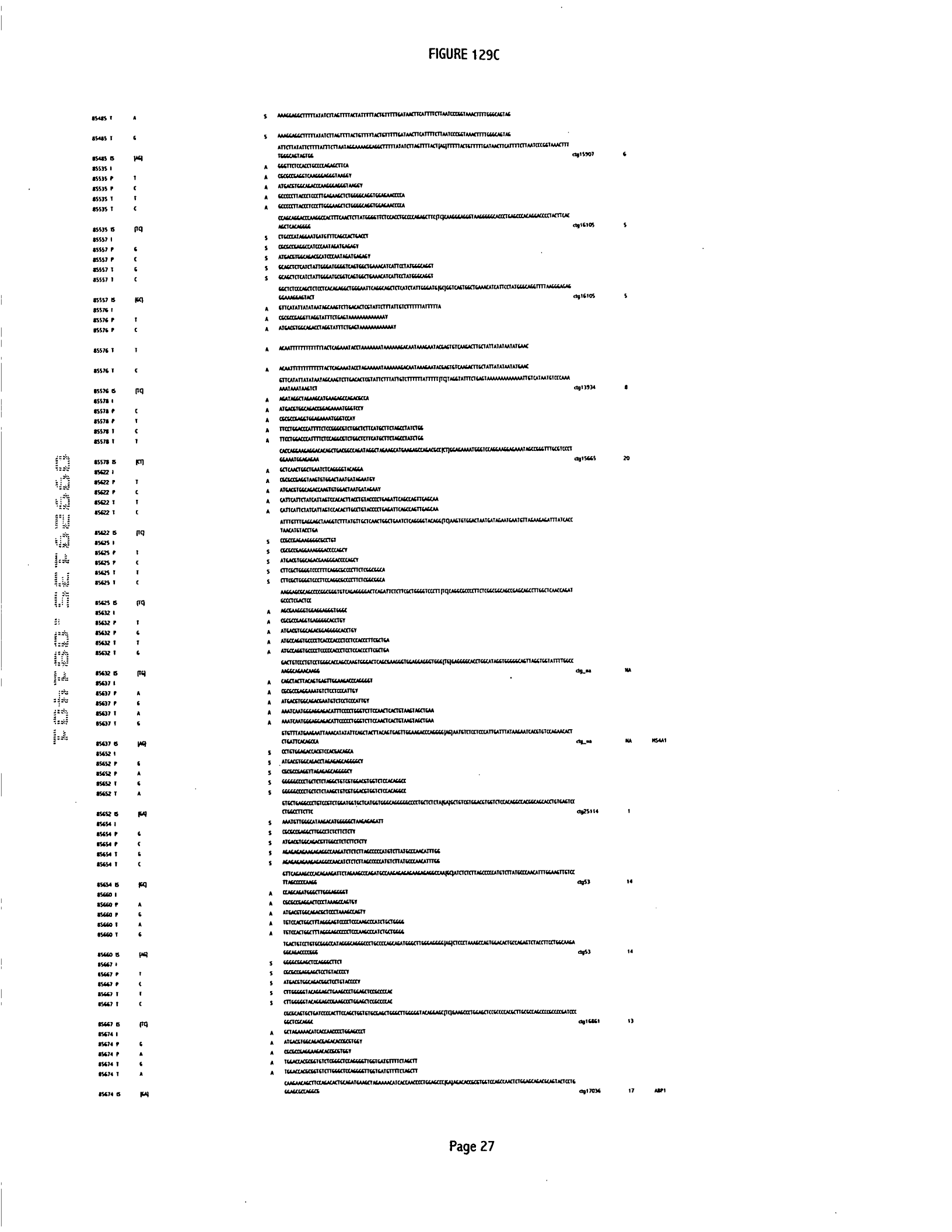












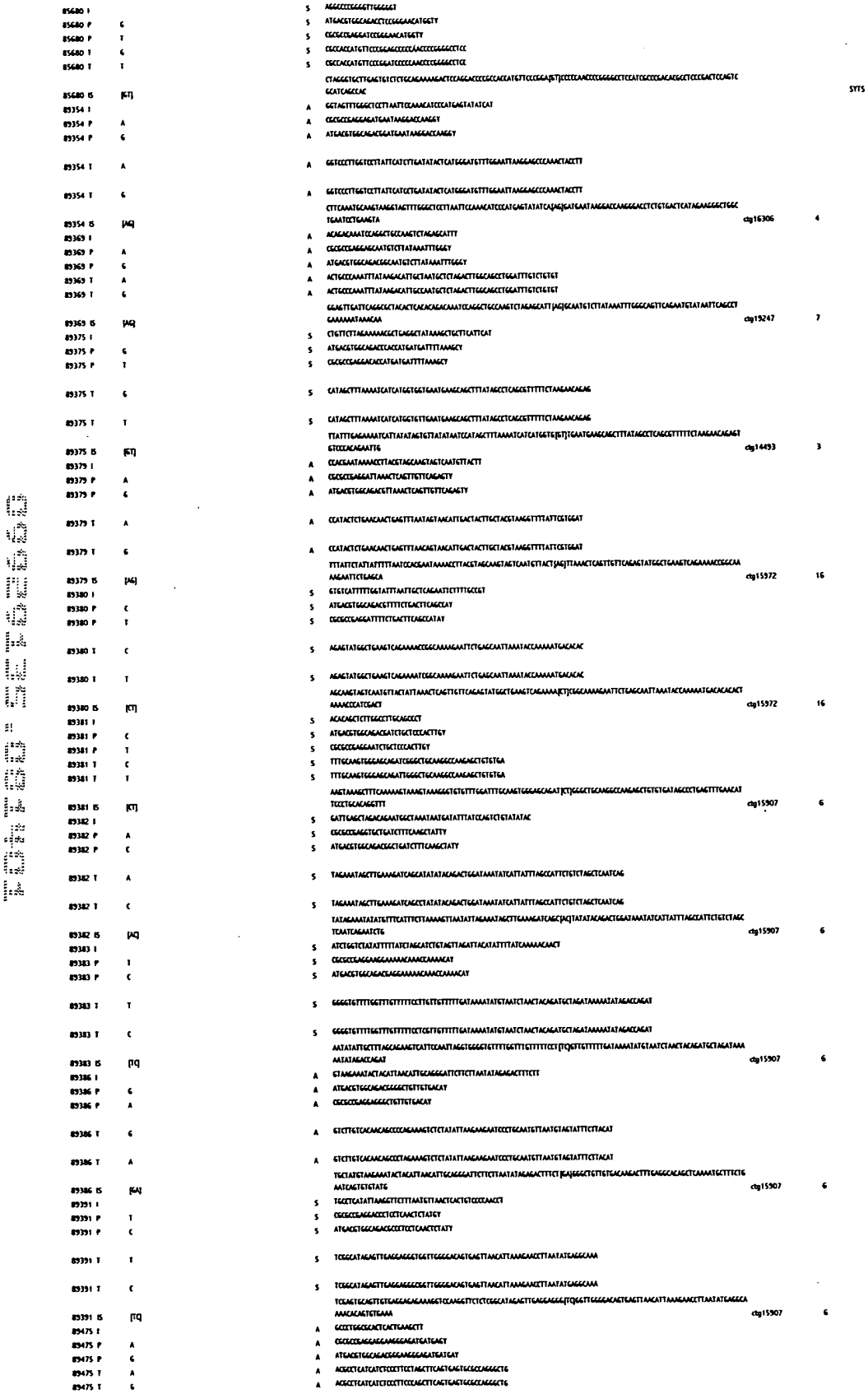
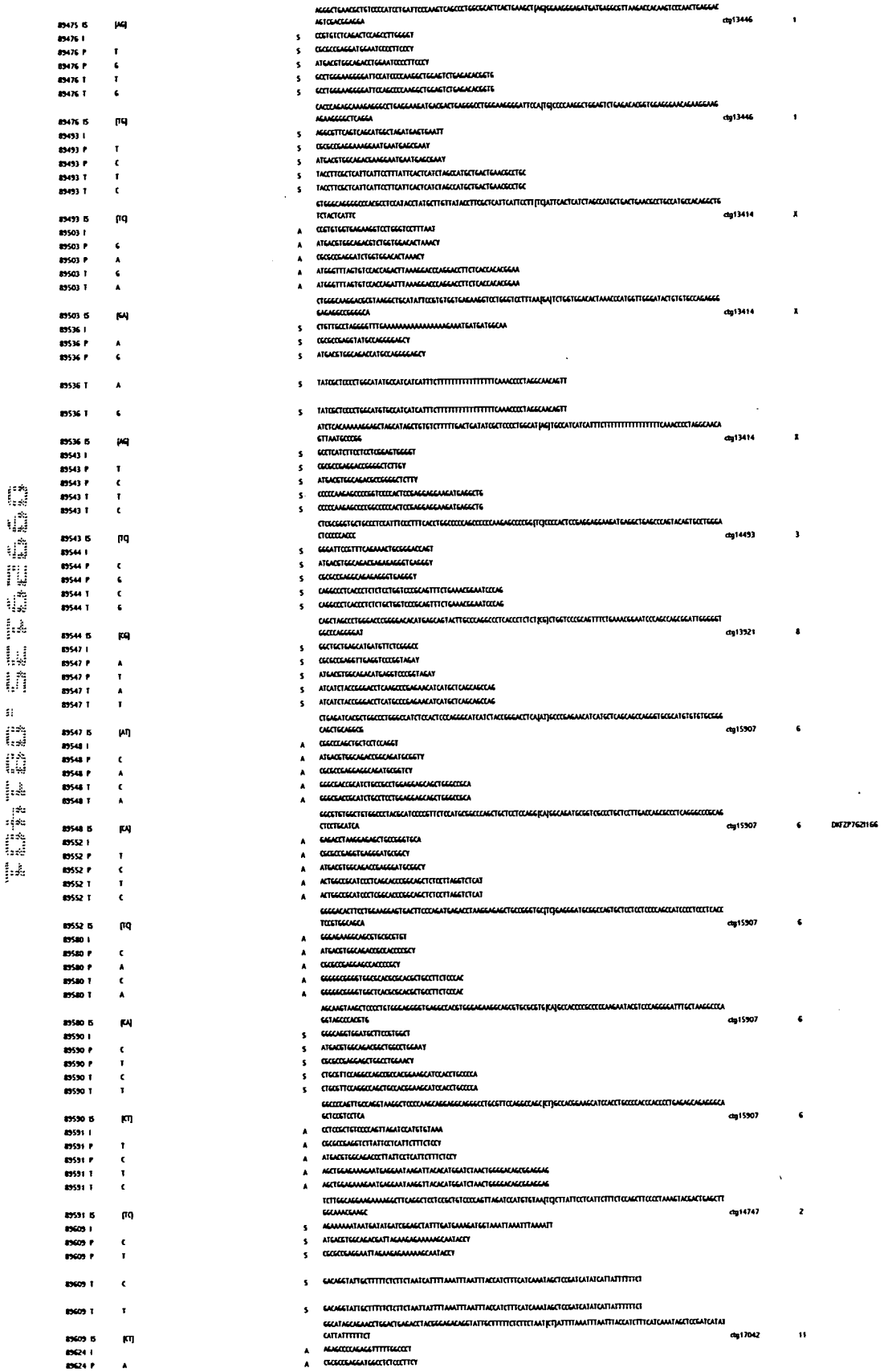


FIGURE 129C



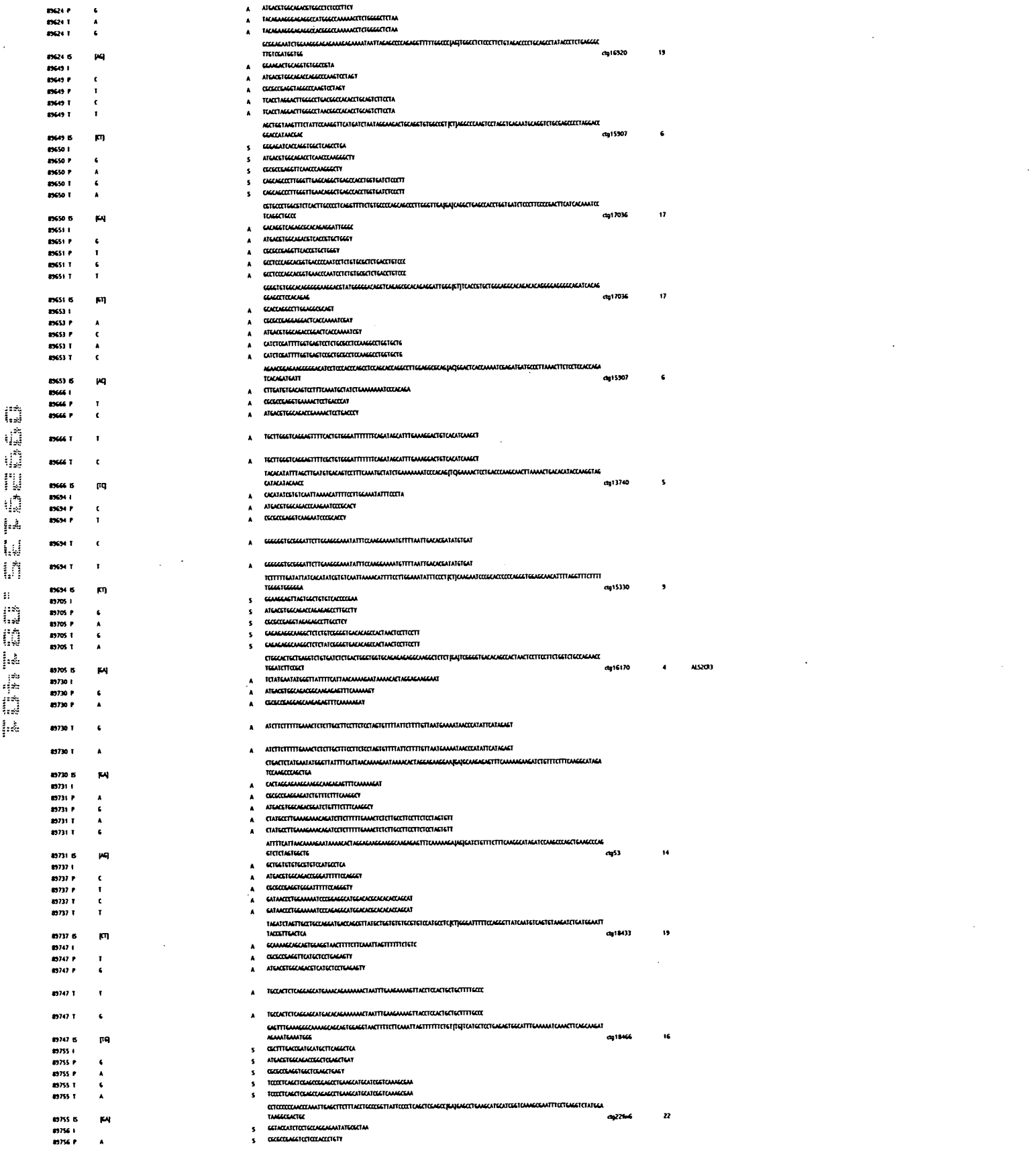


FIGURE 129C

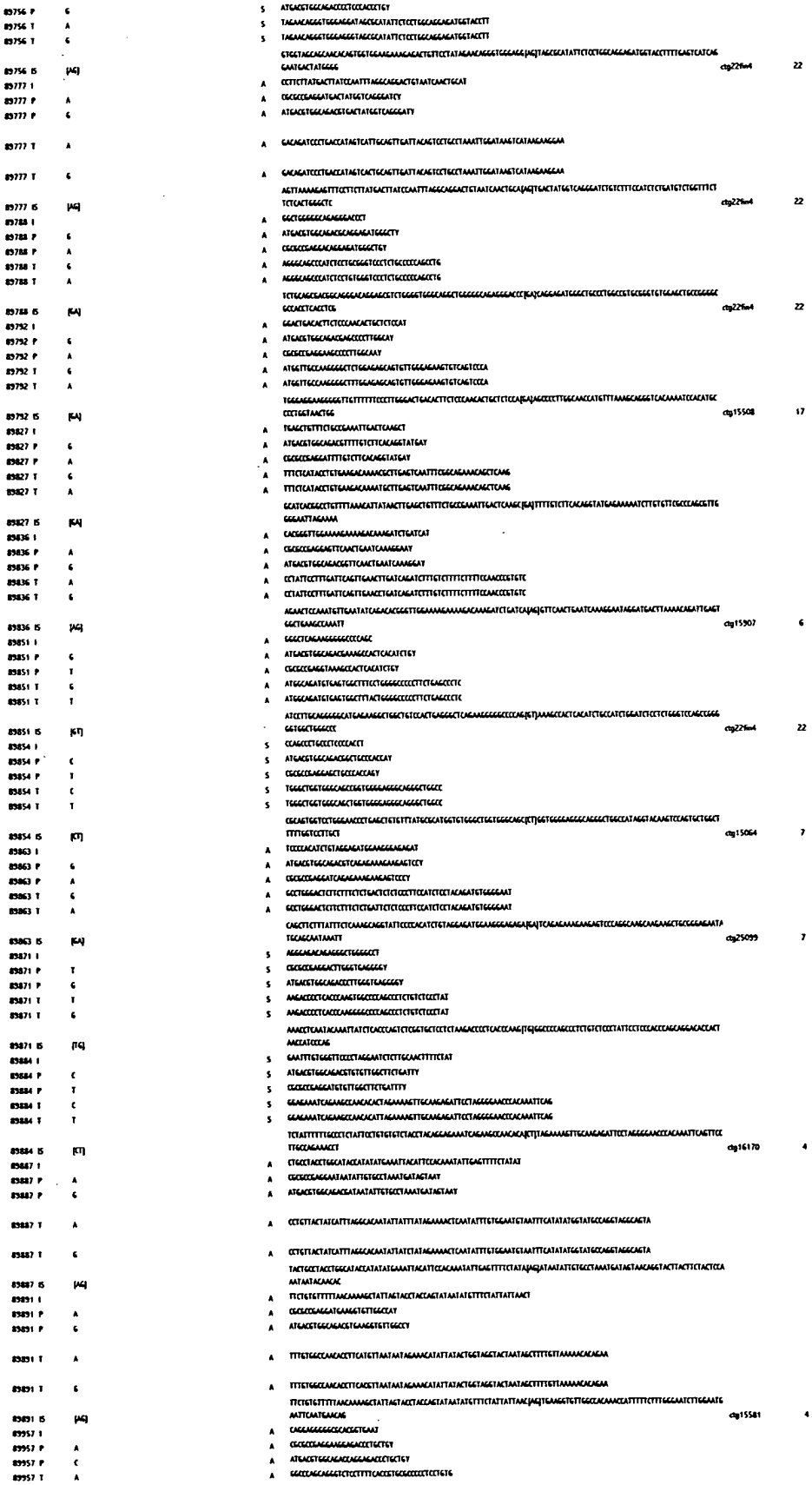
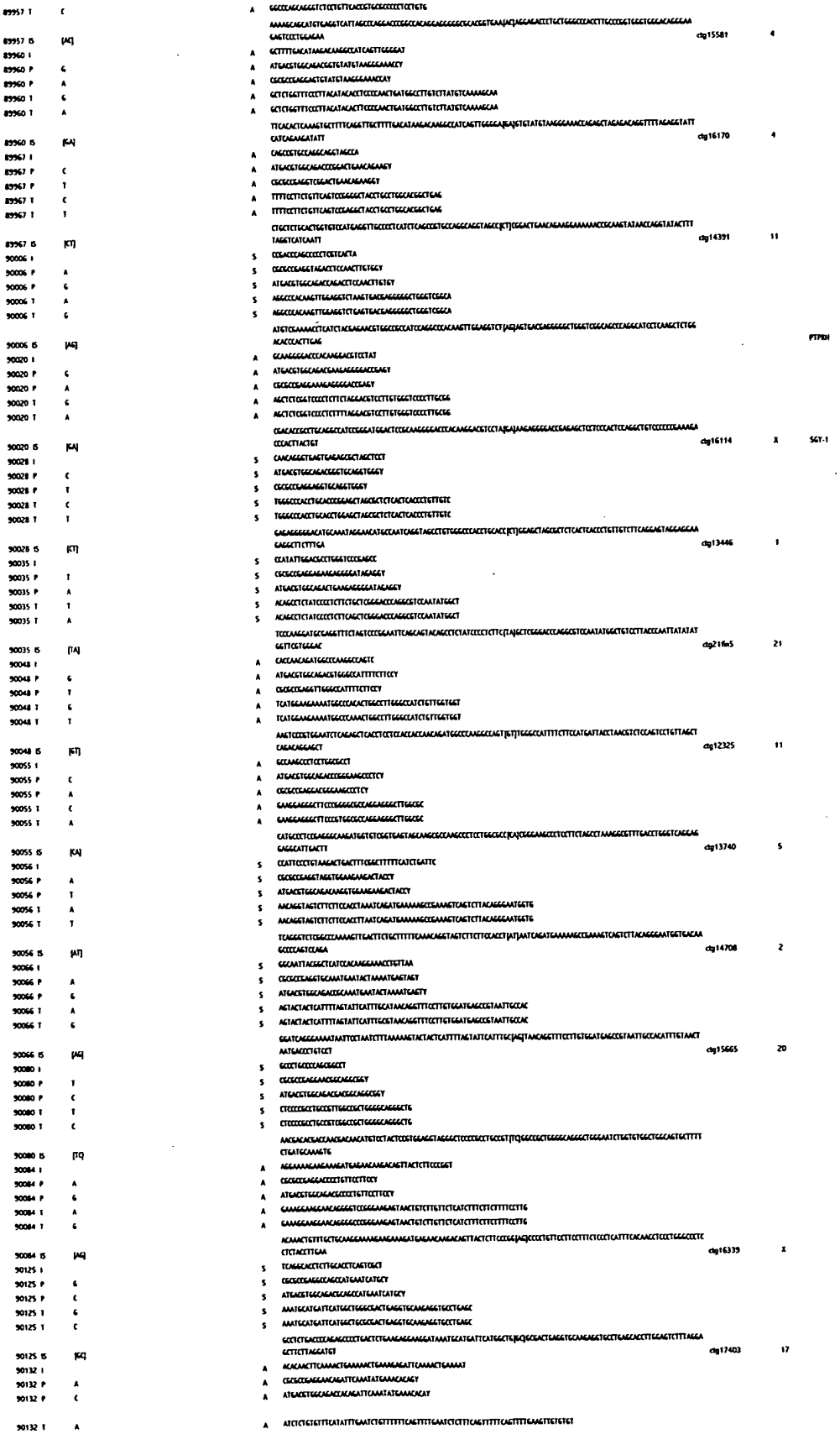
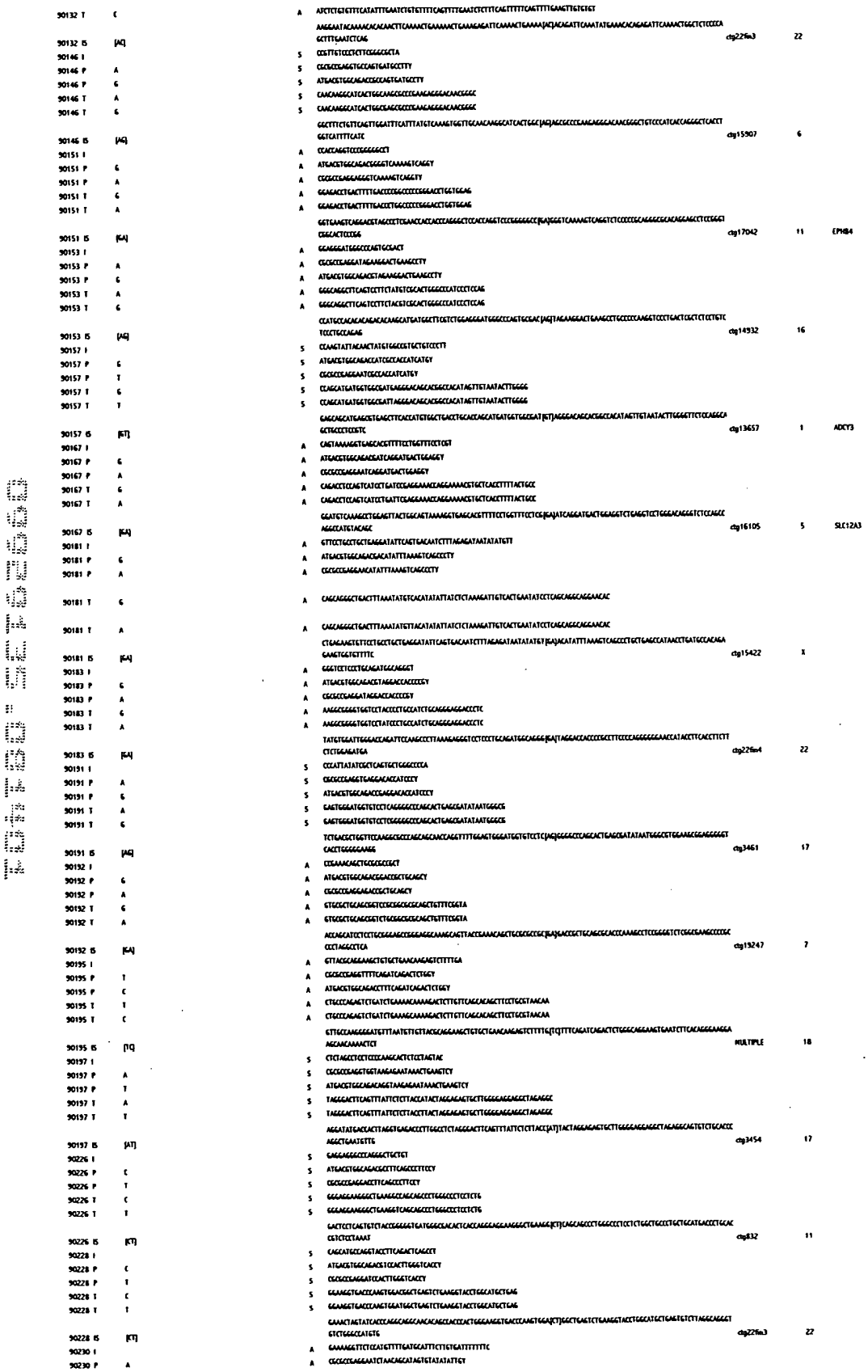
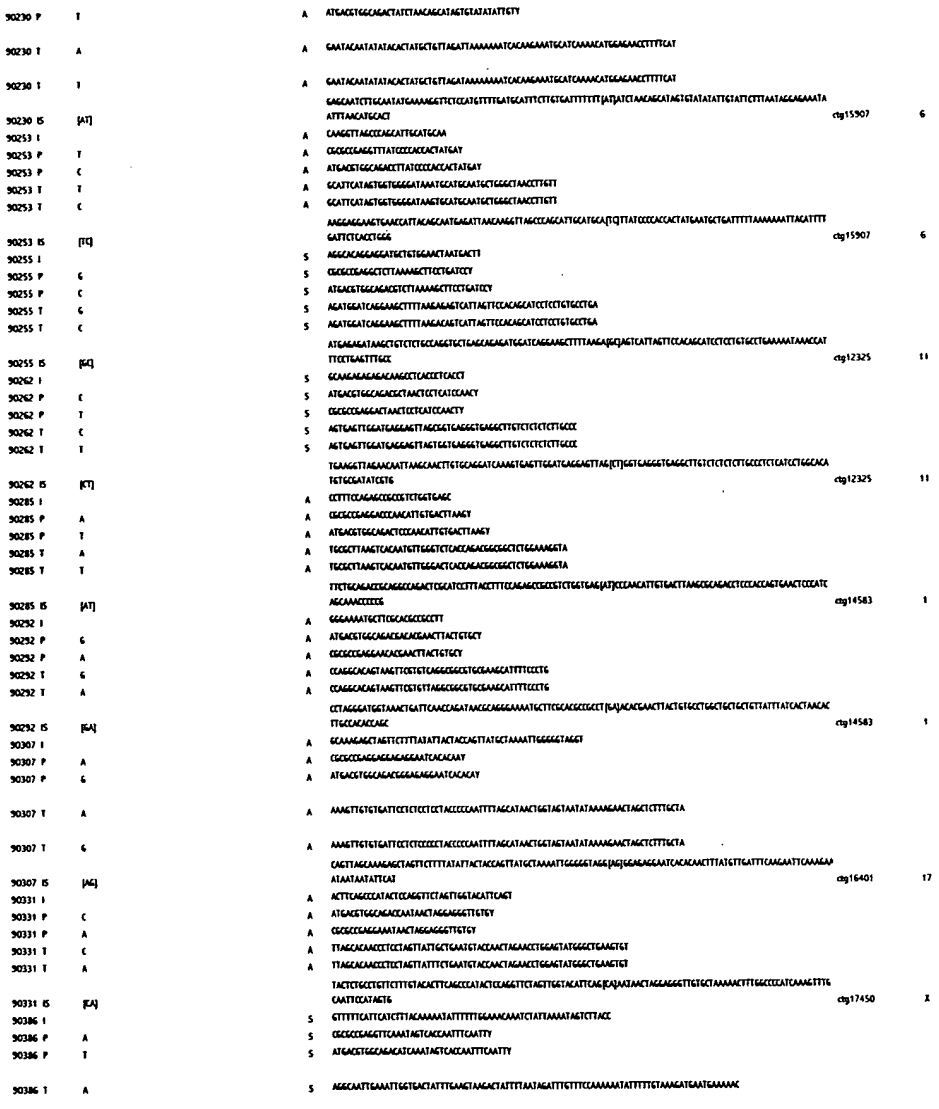


FIGURE 129C







Sequence Listing Page 1 of 1

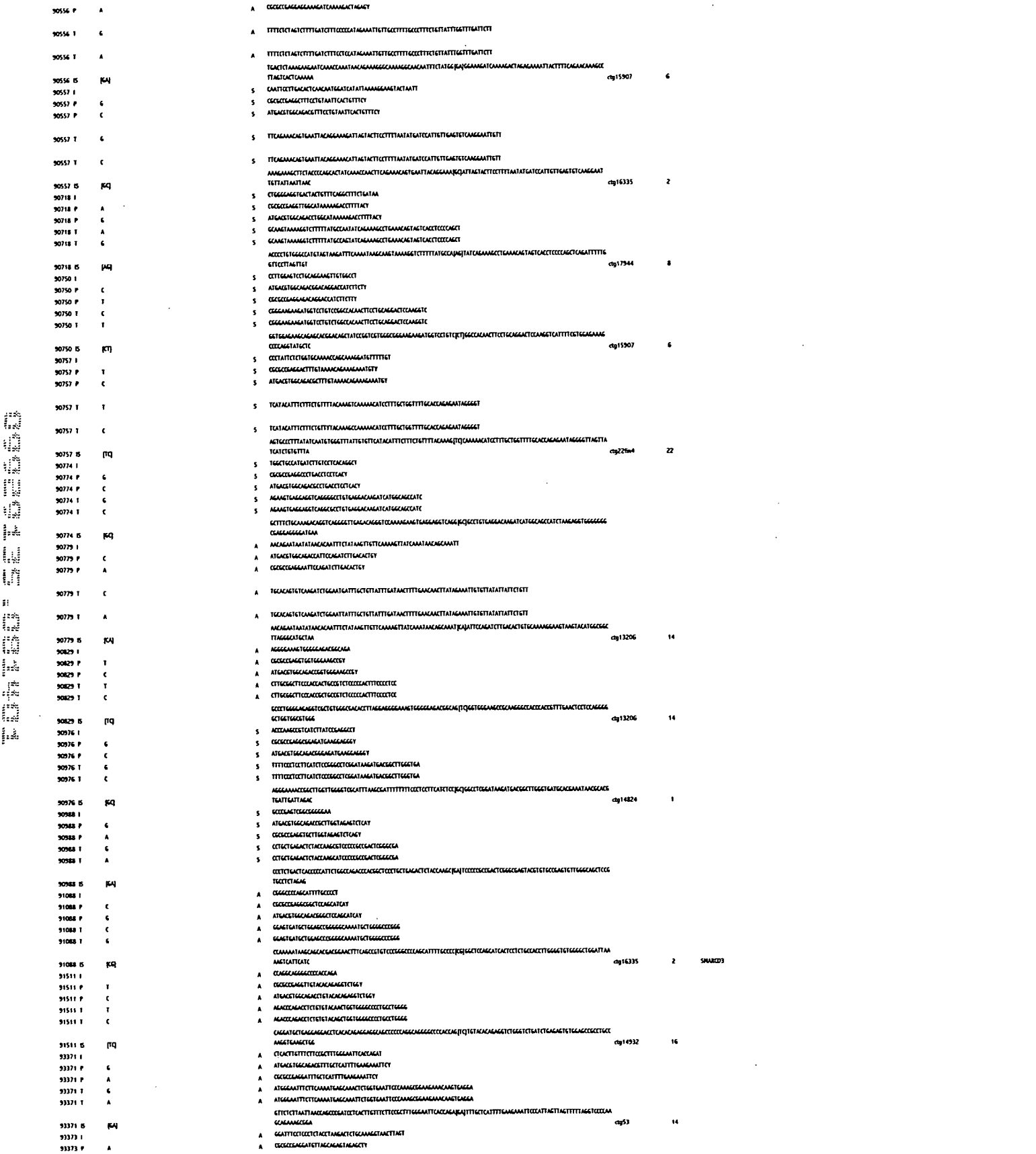


FIGURE 129C

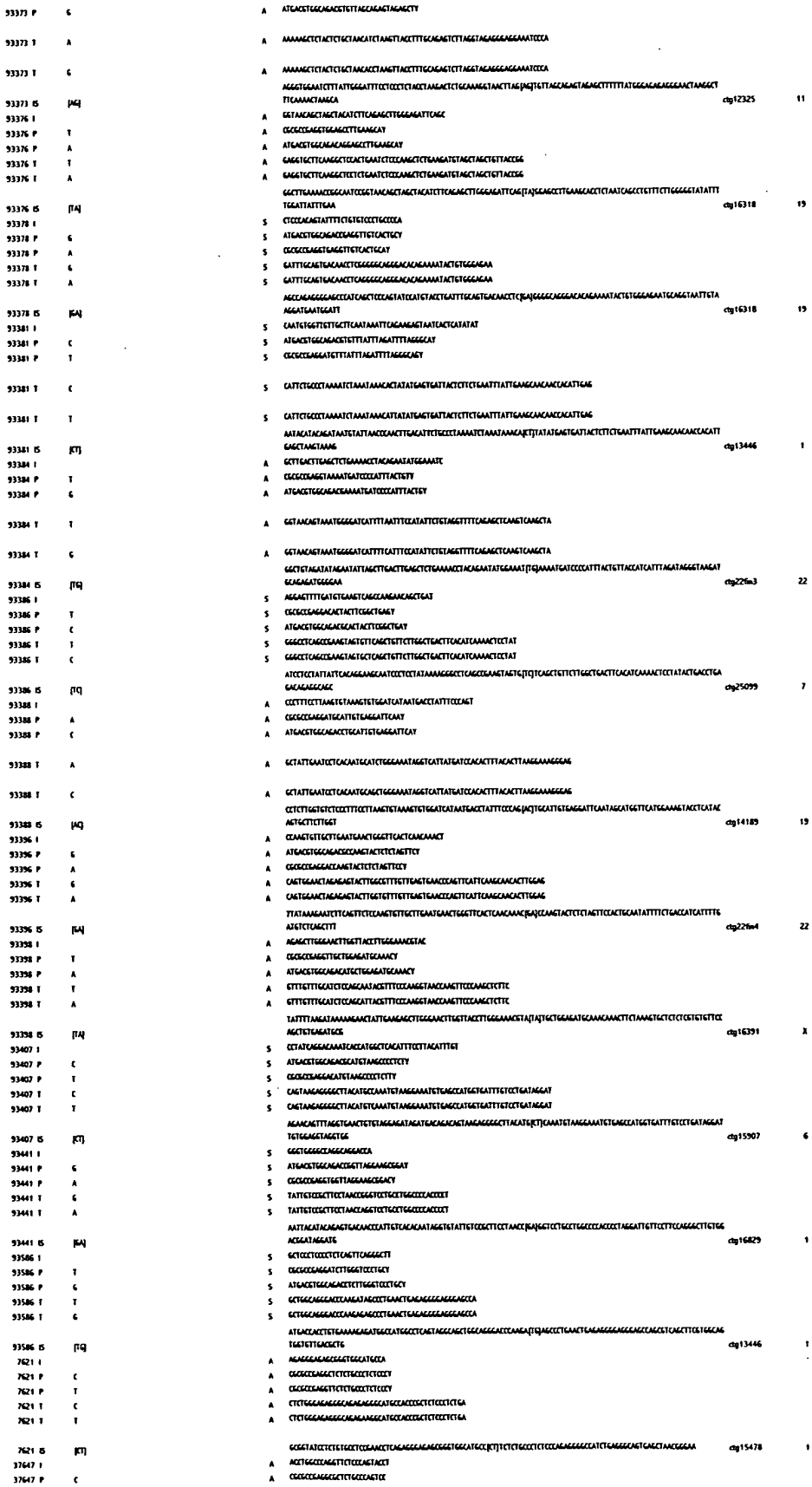
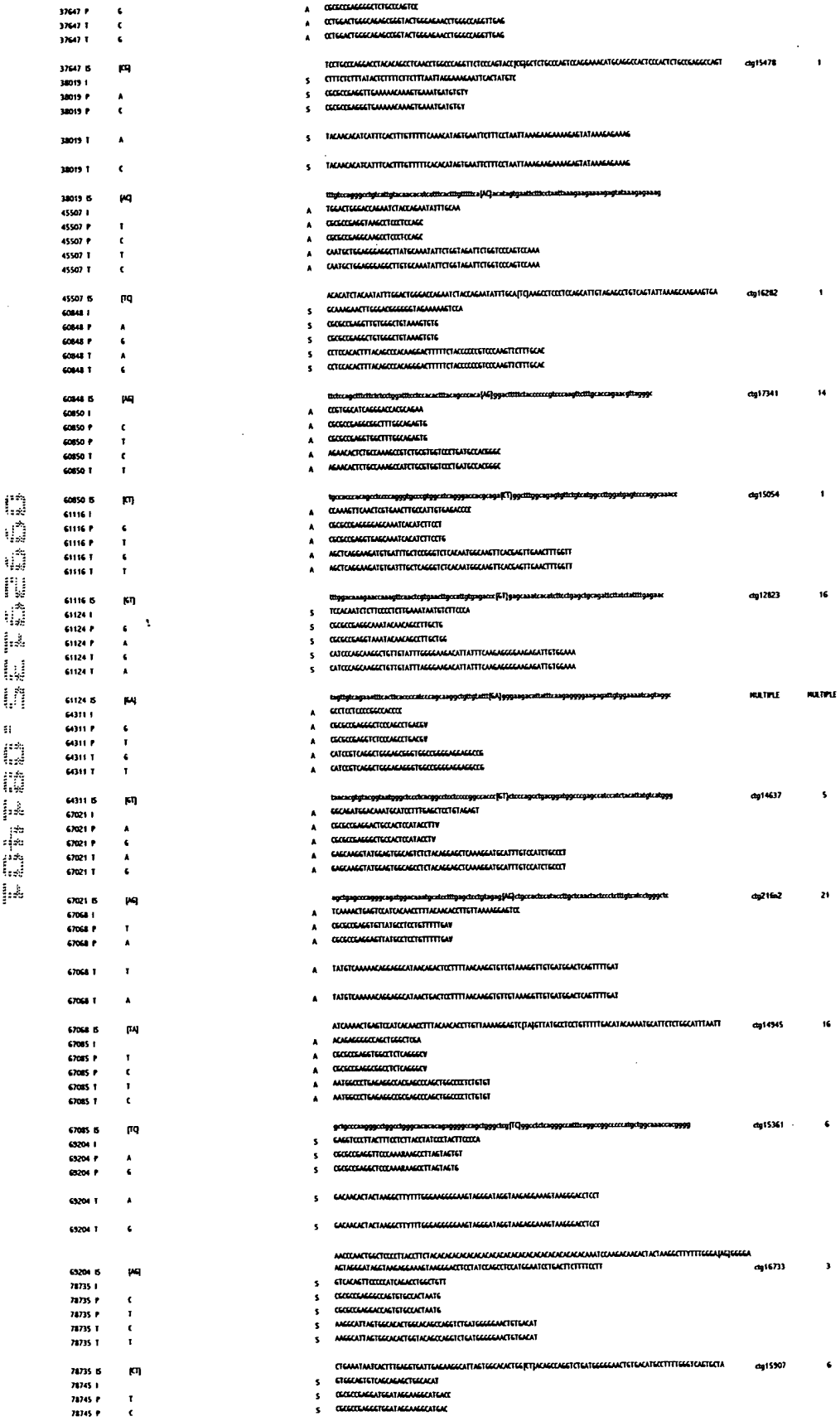
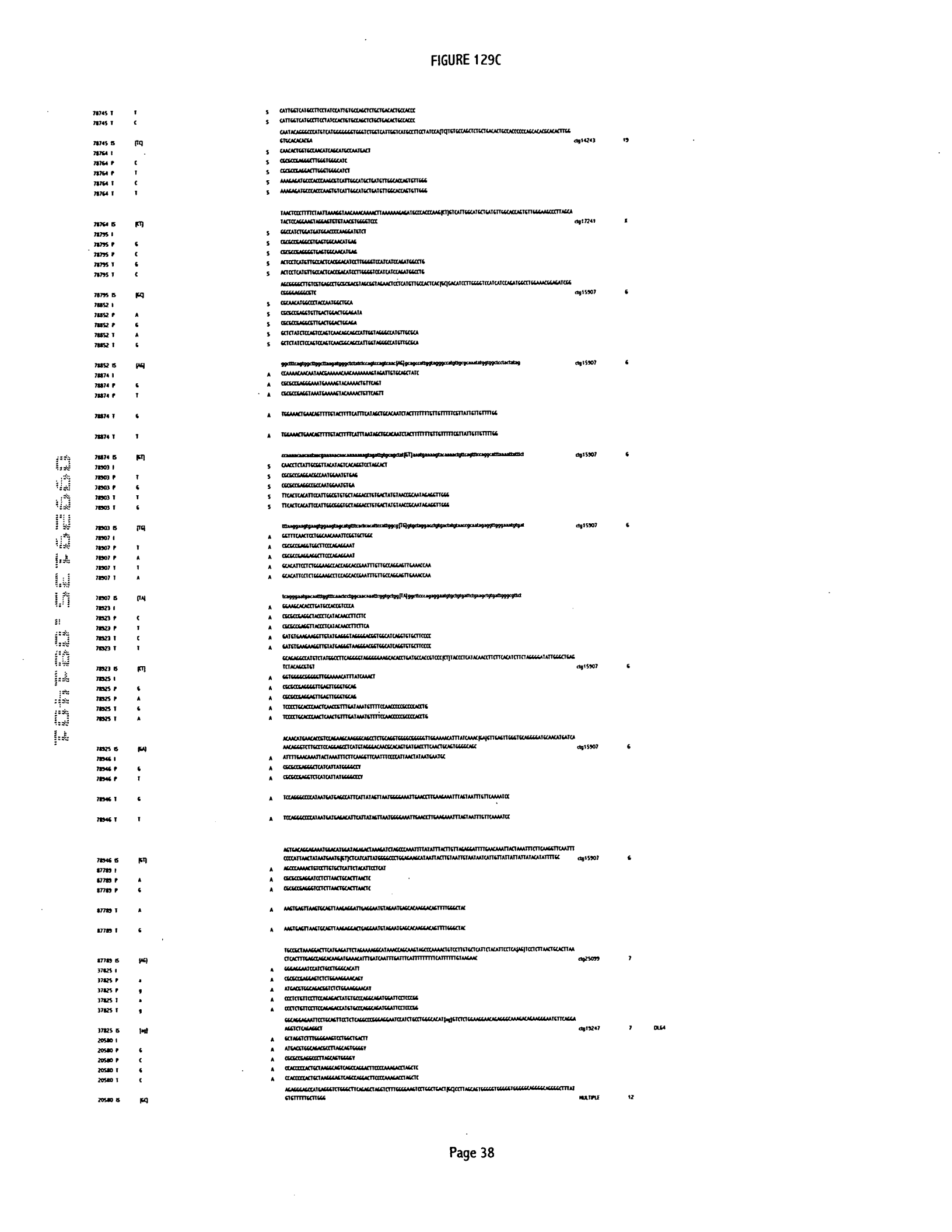


FIGURE 129C





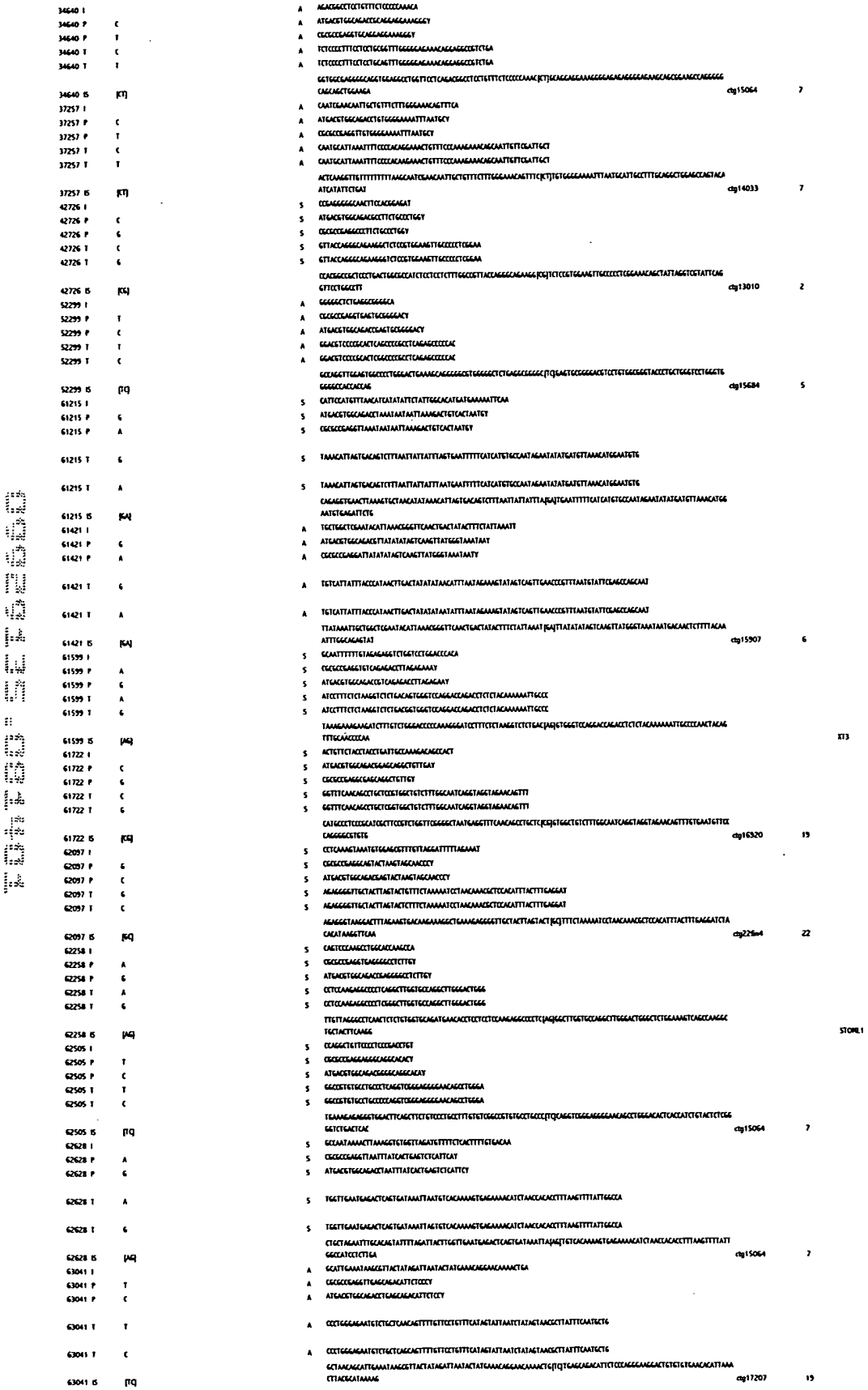


FIGURE 129C

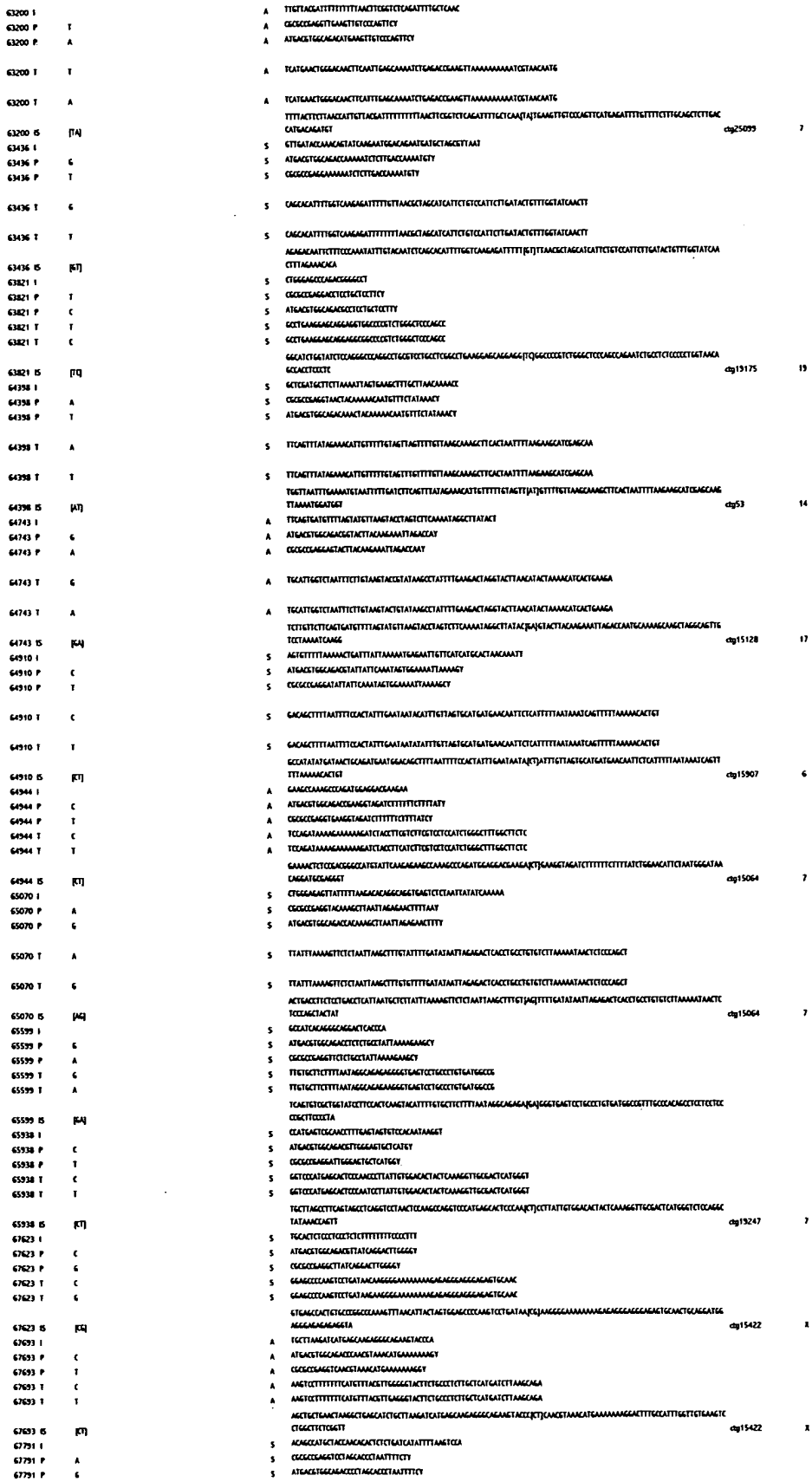
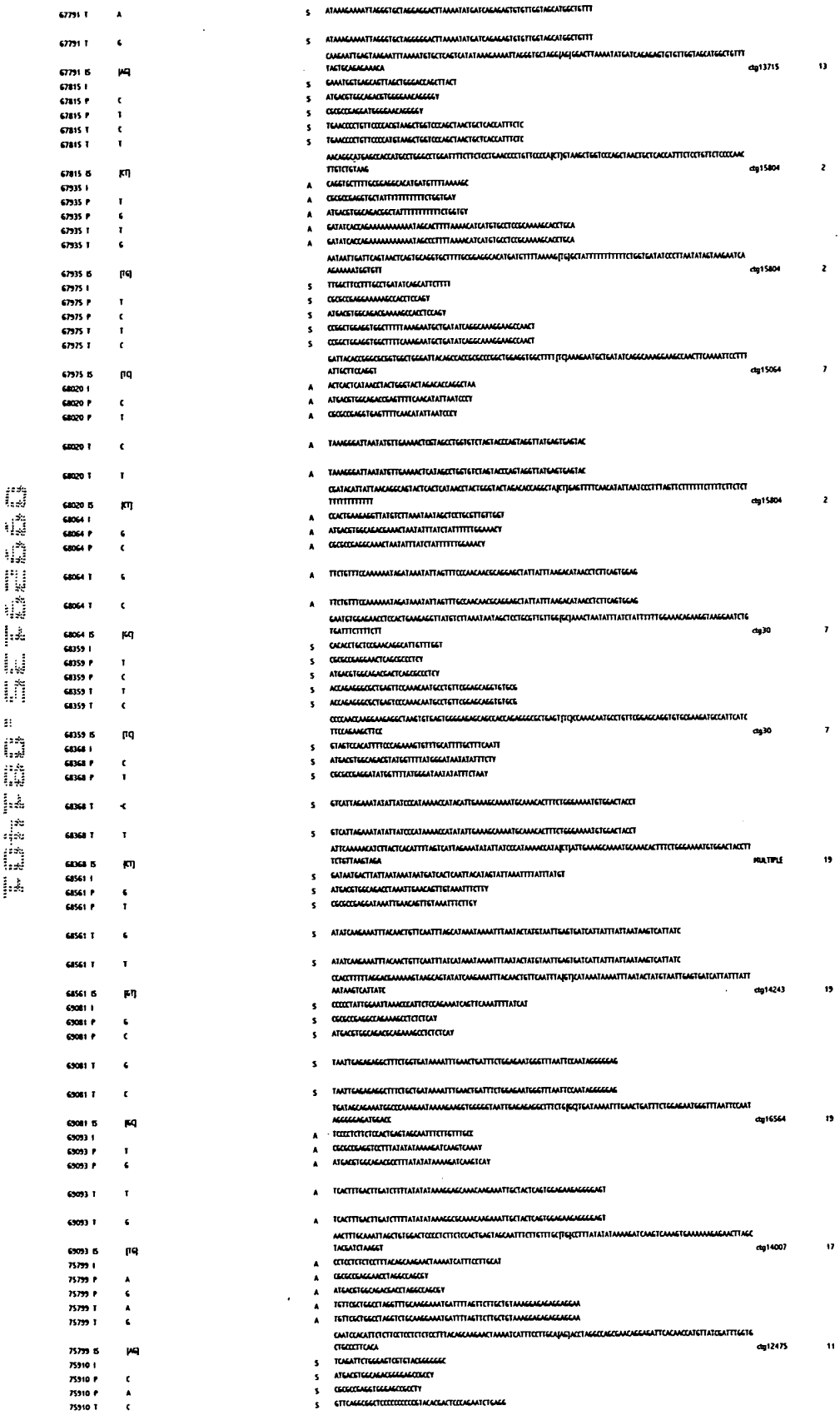
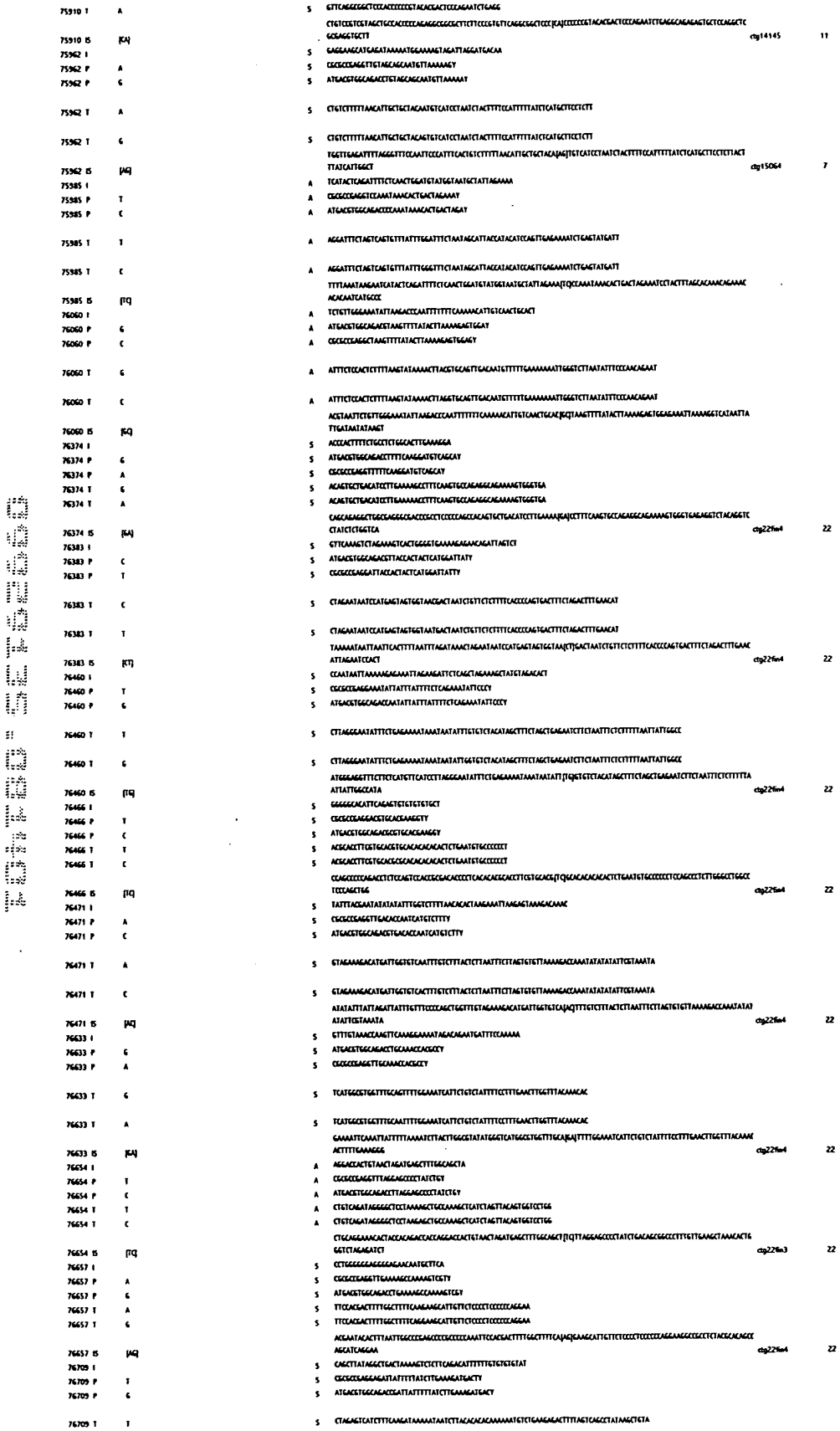
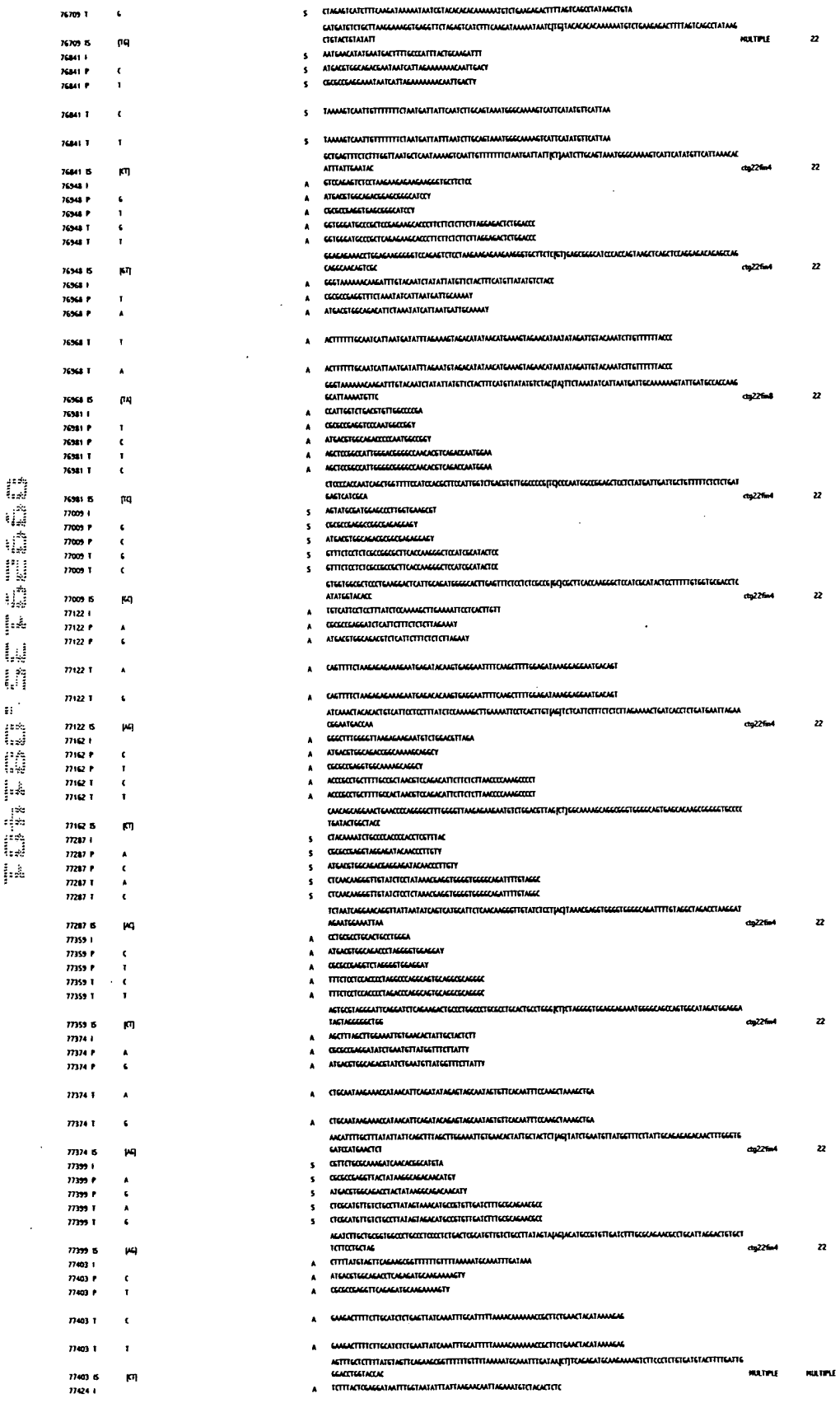


FIGURE 129C









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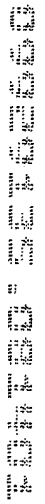


FIGURE 129C

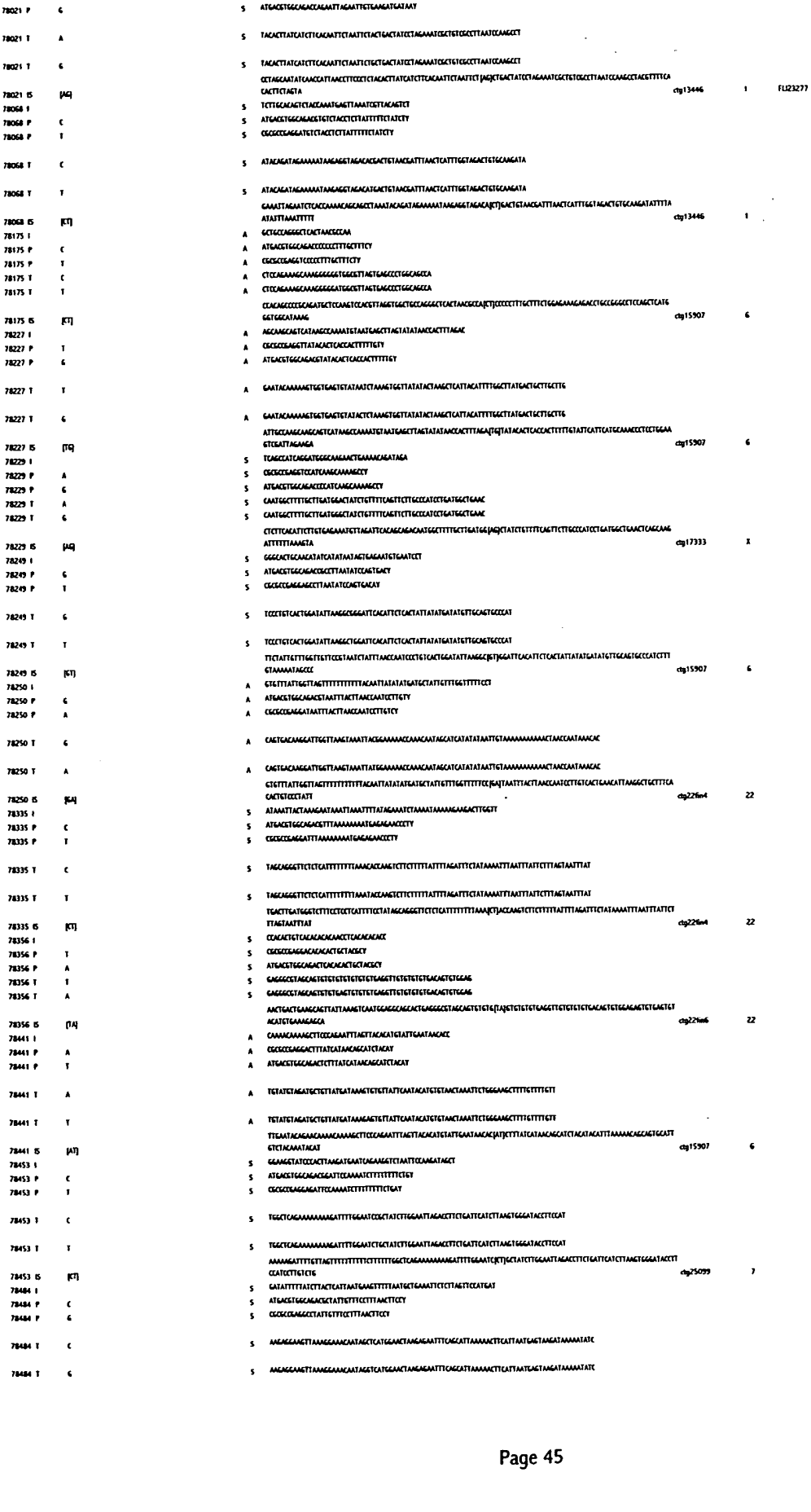
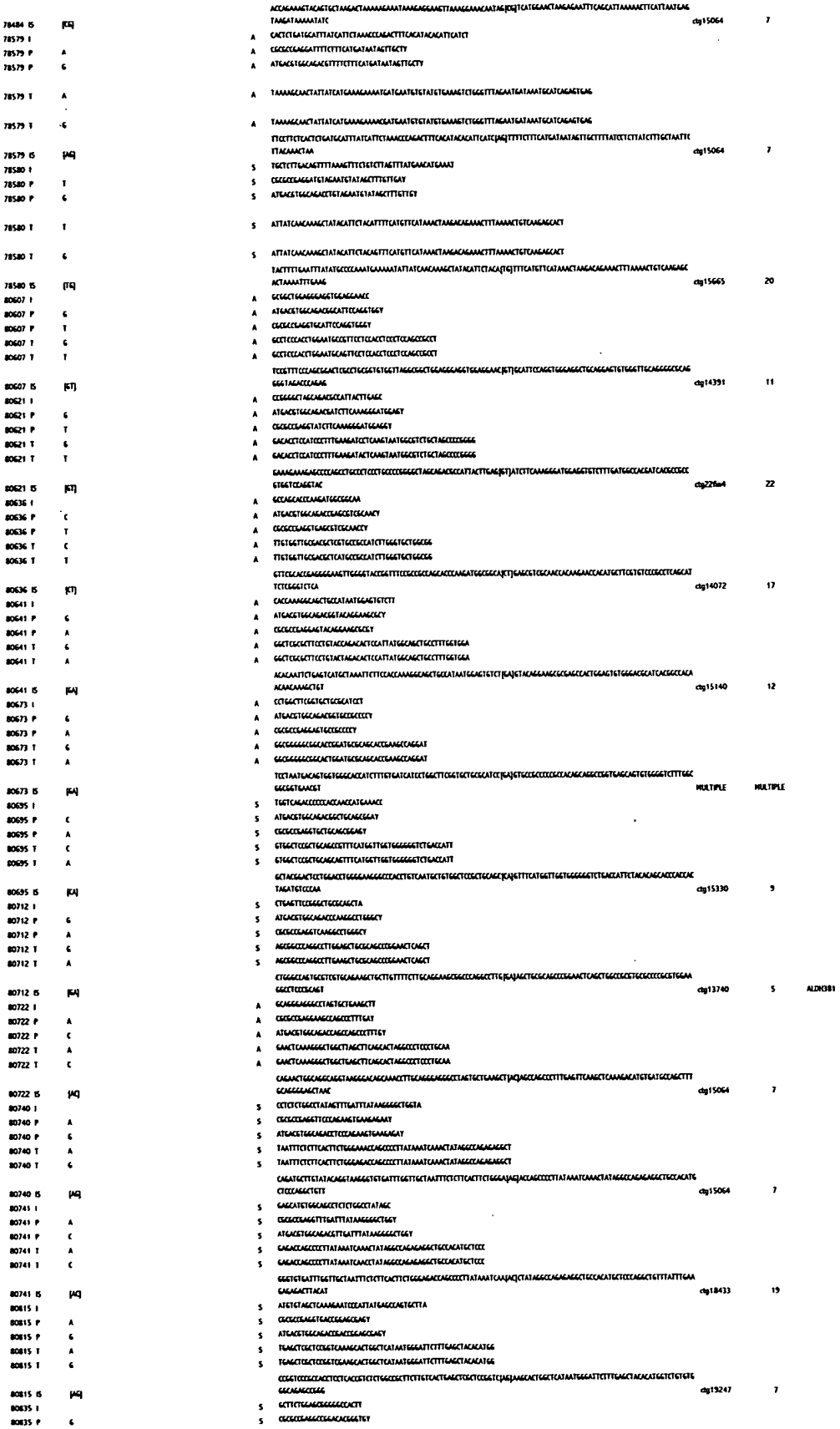
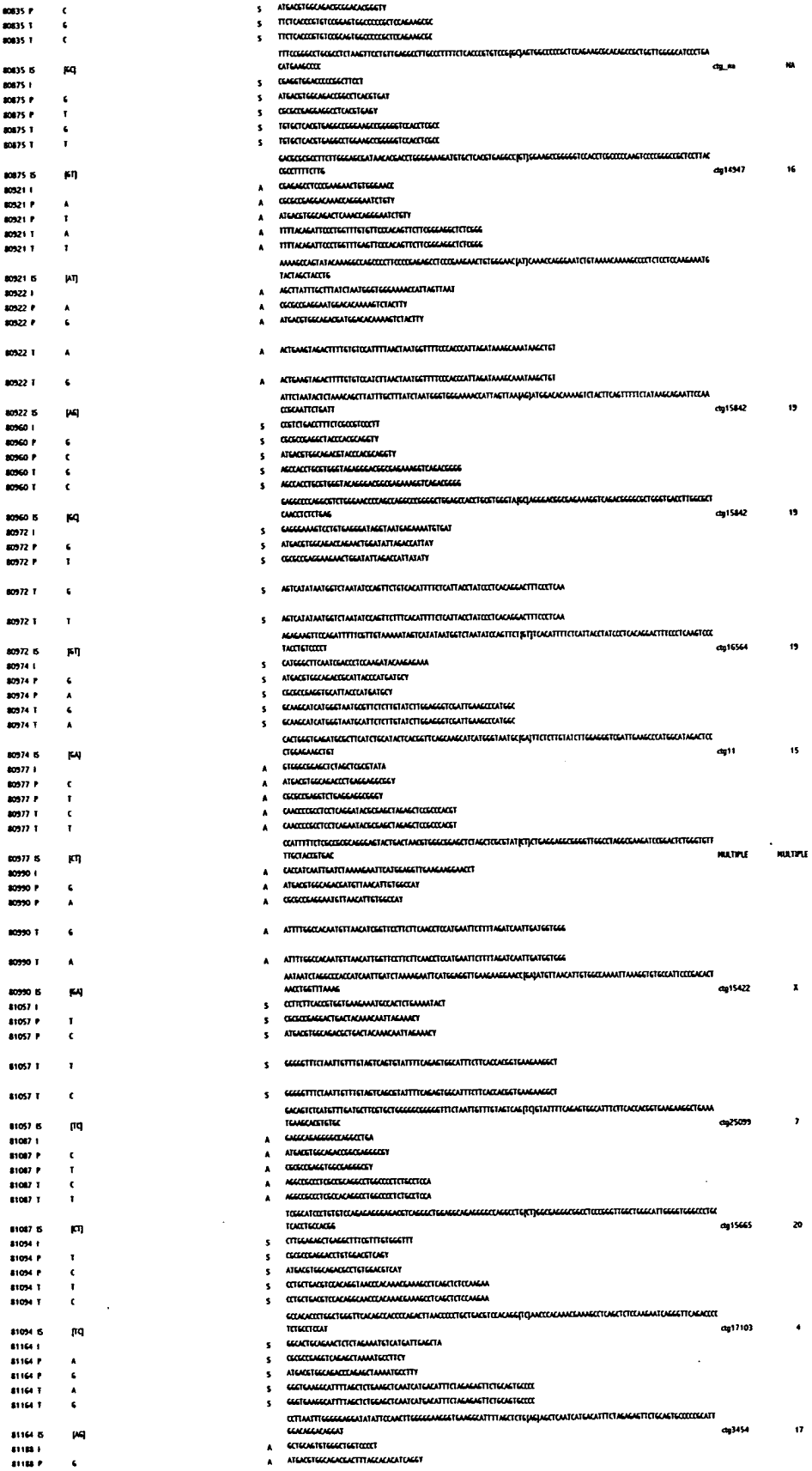
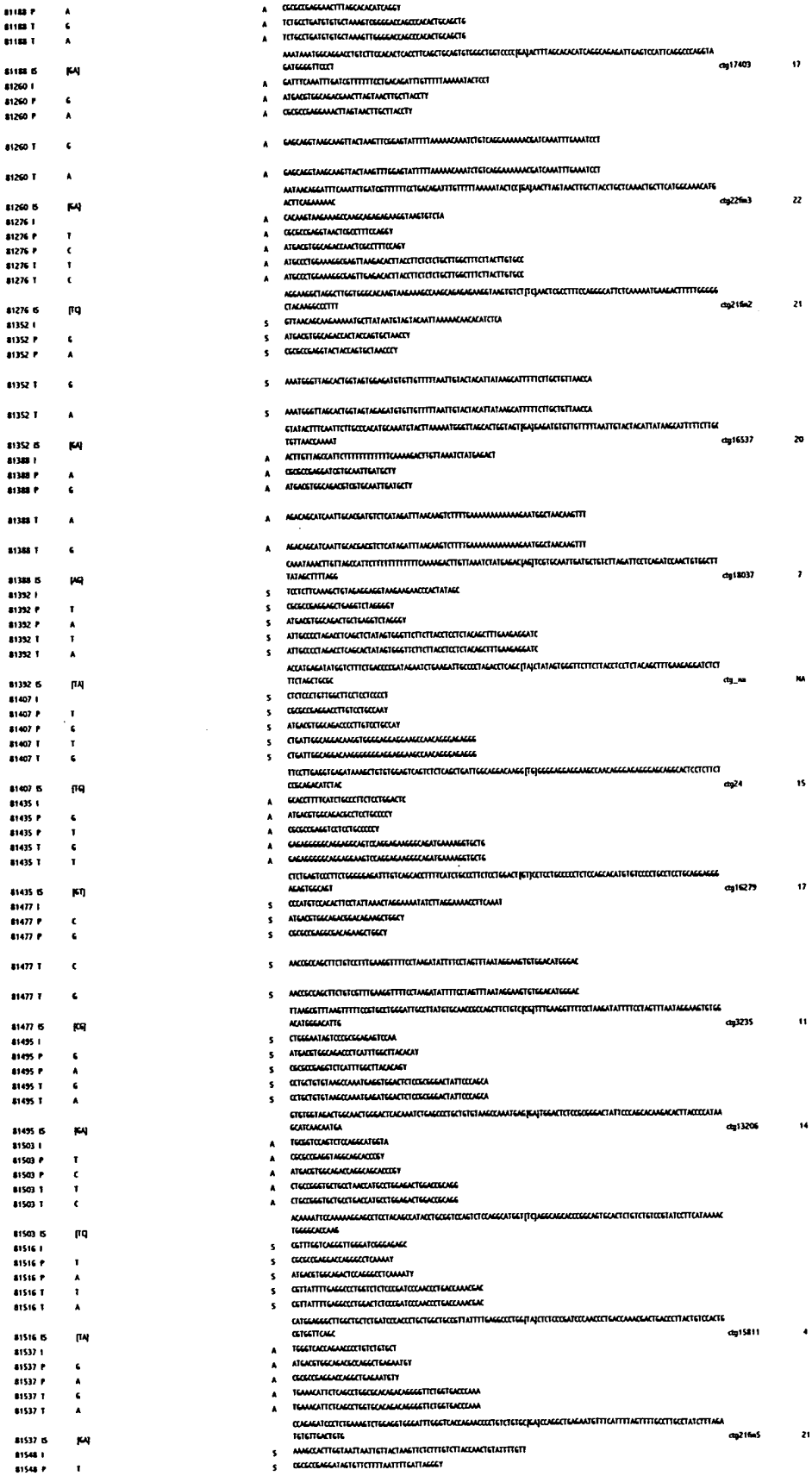


FIGURE 129C

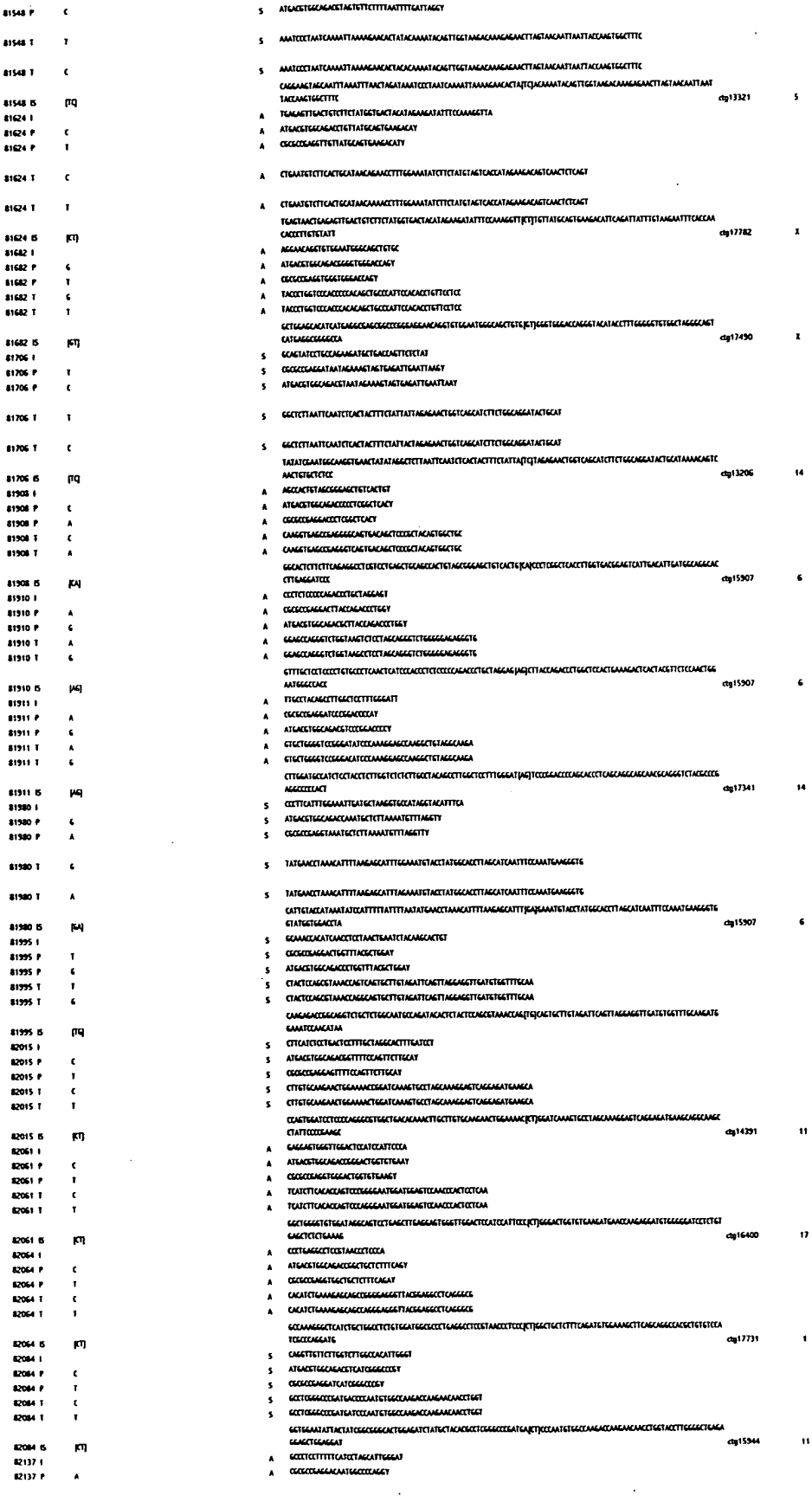


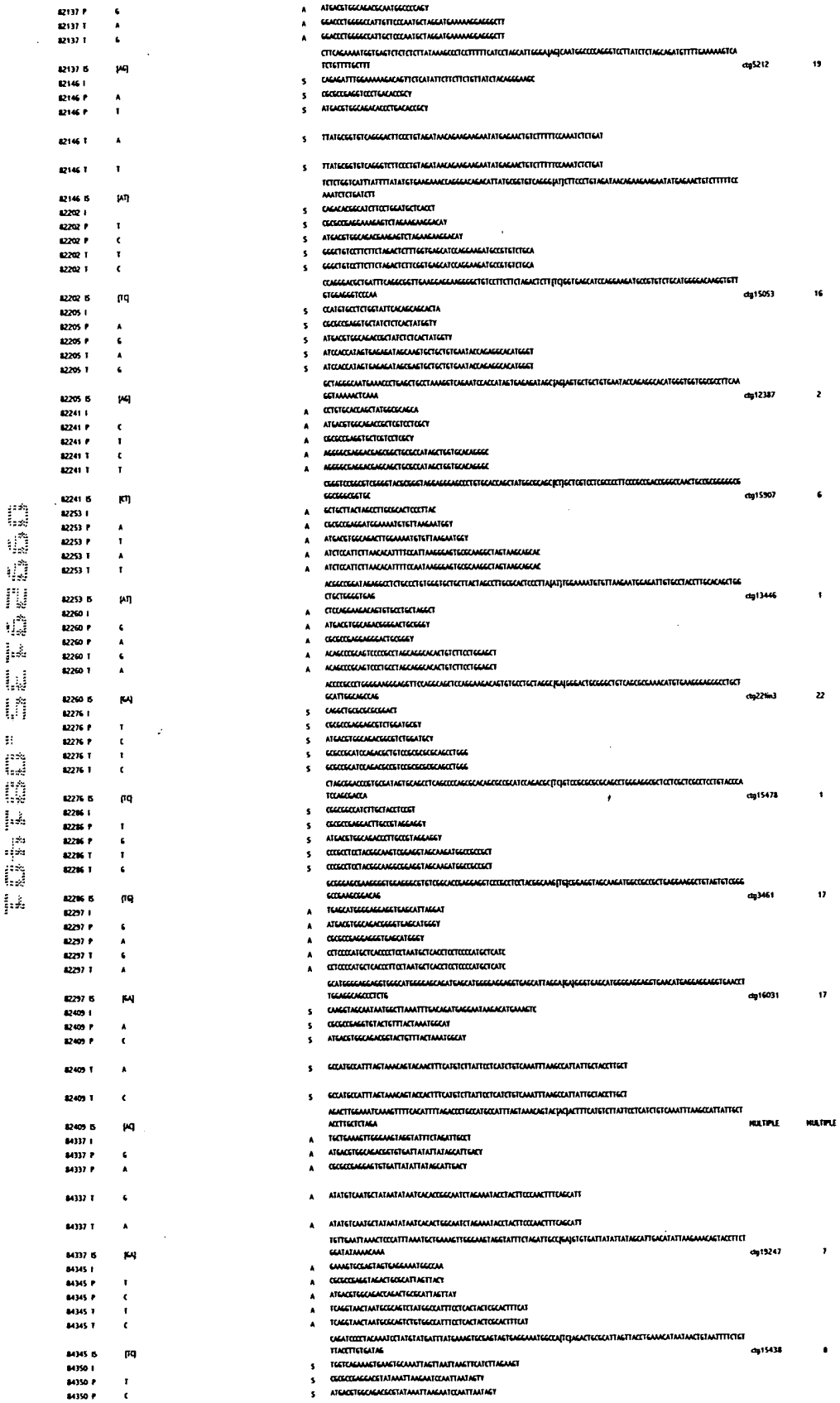


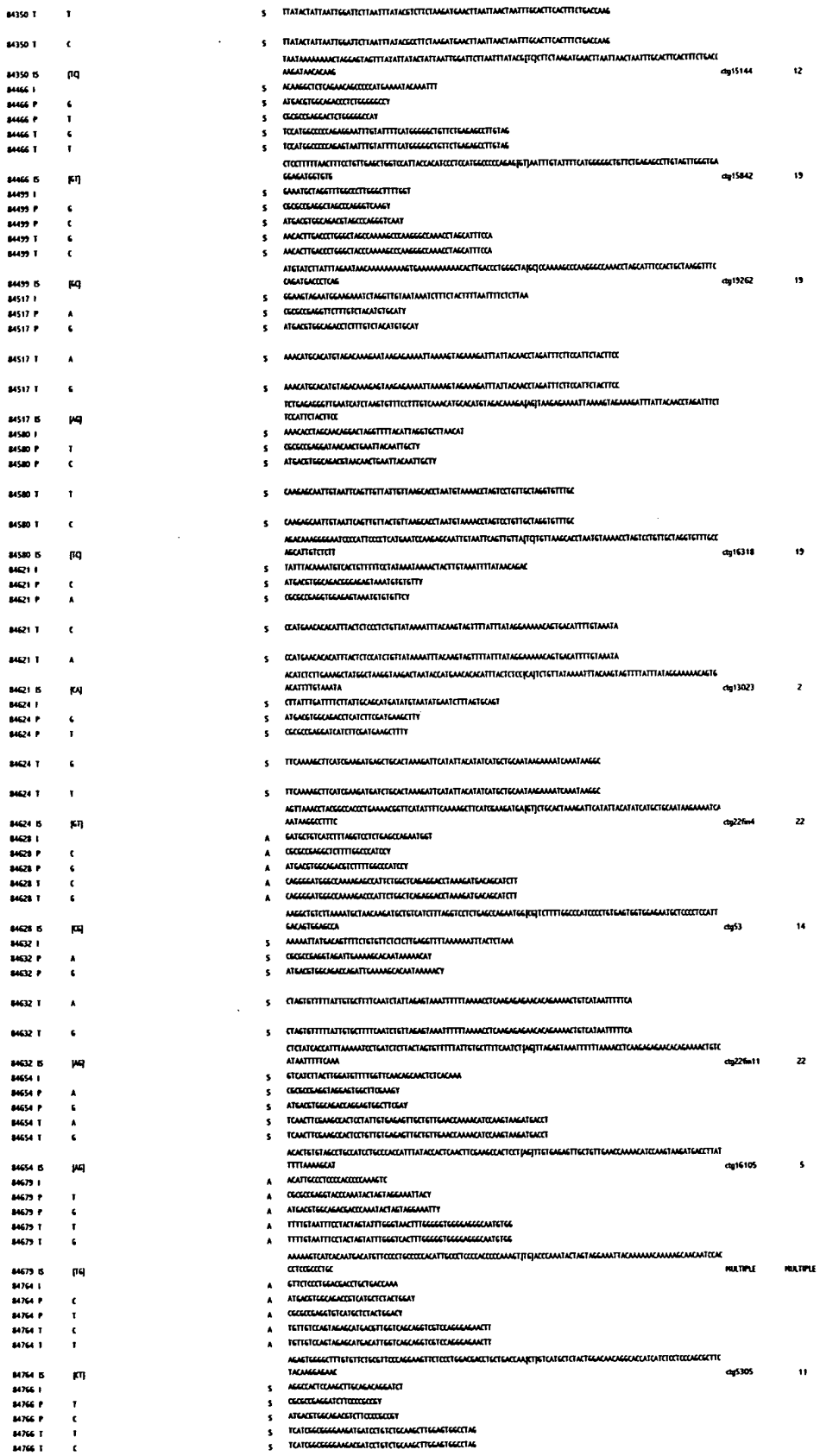


Application Data Sheet

FIGURE 129C







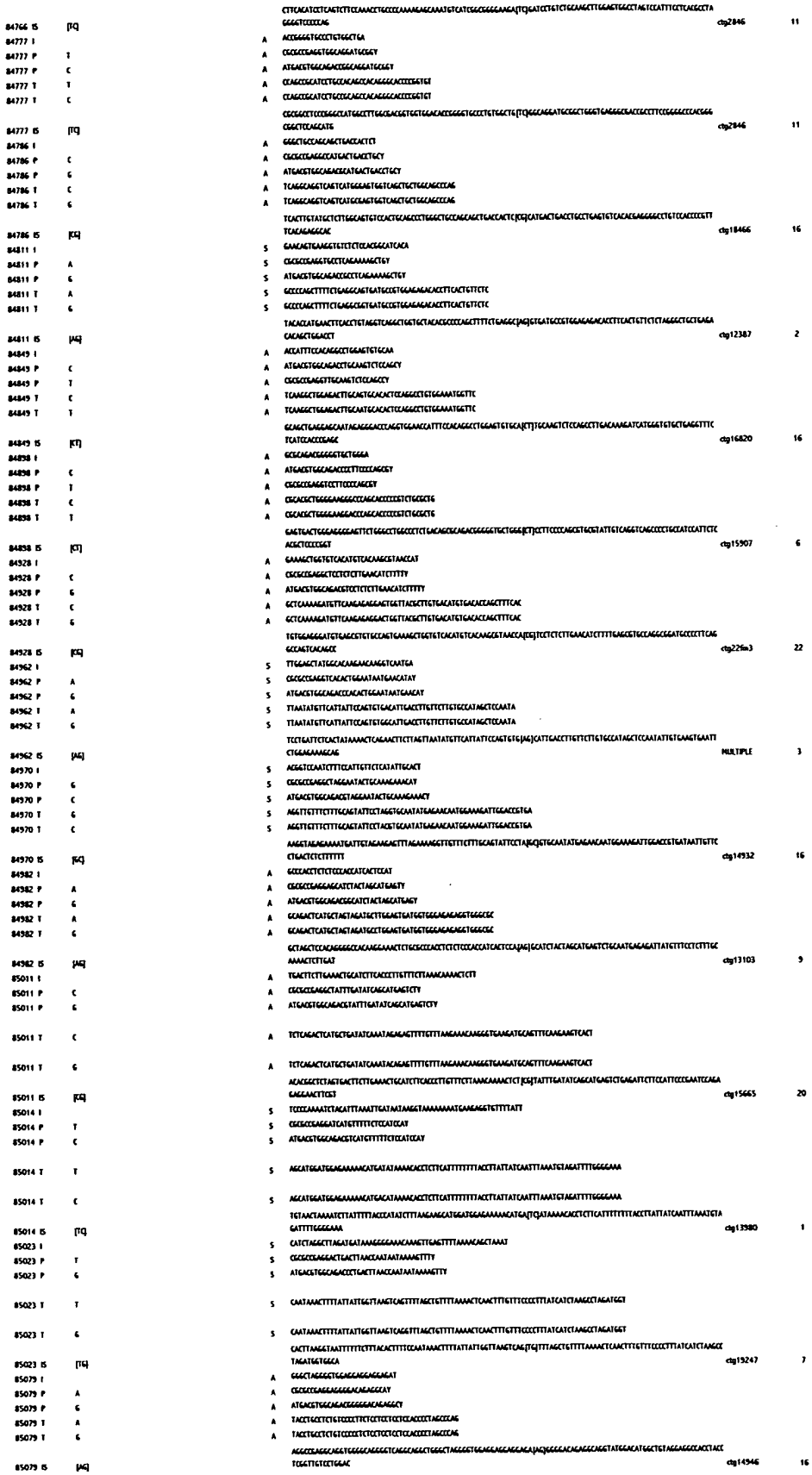
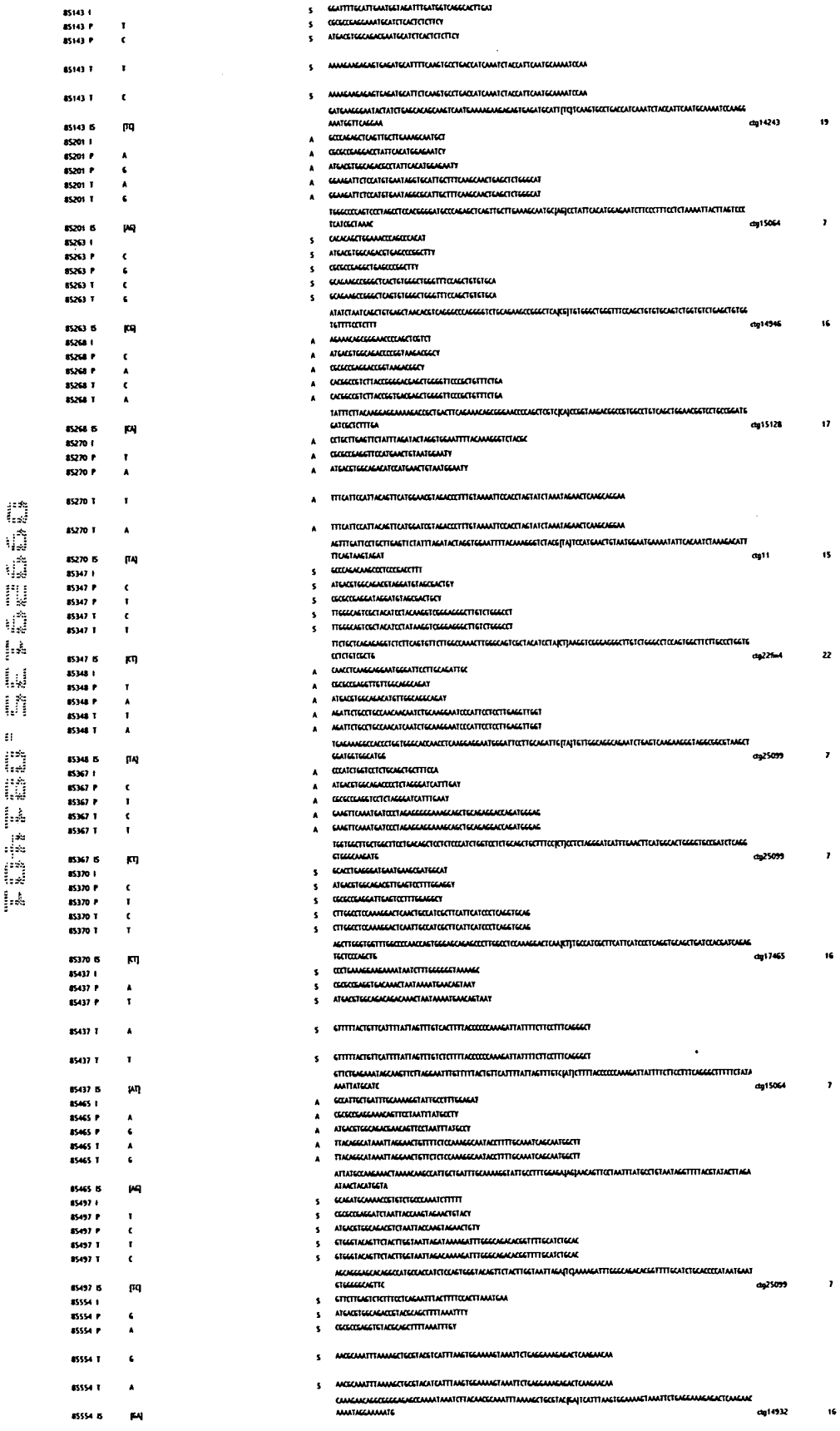
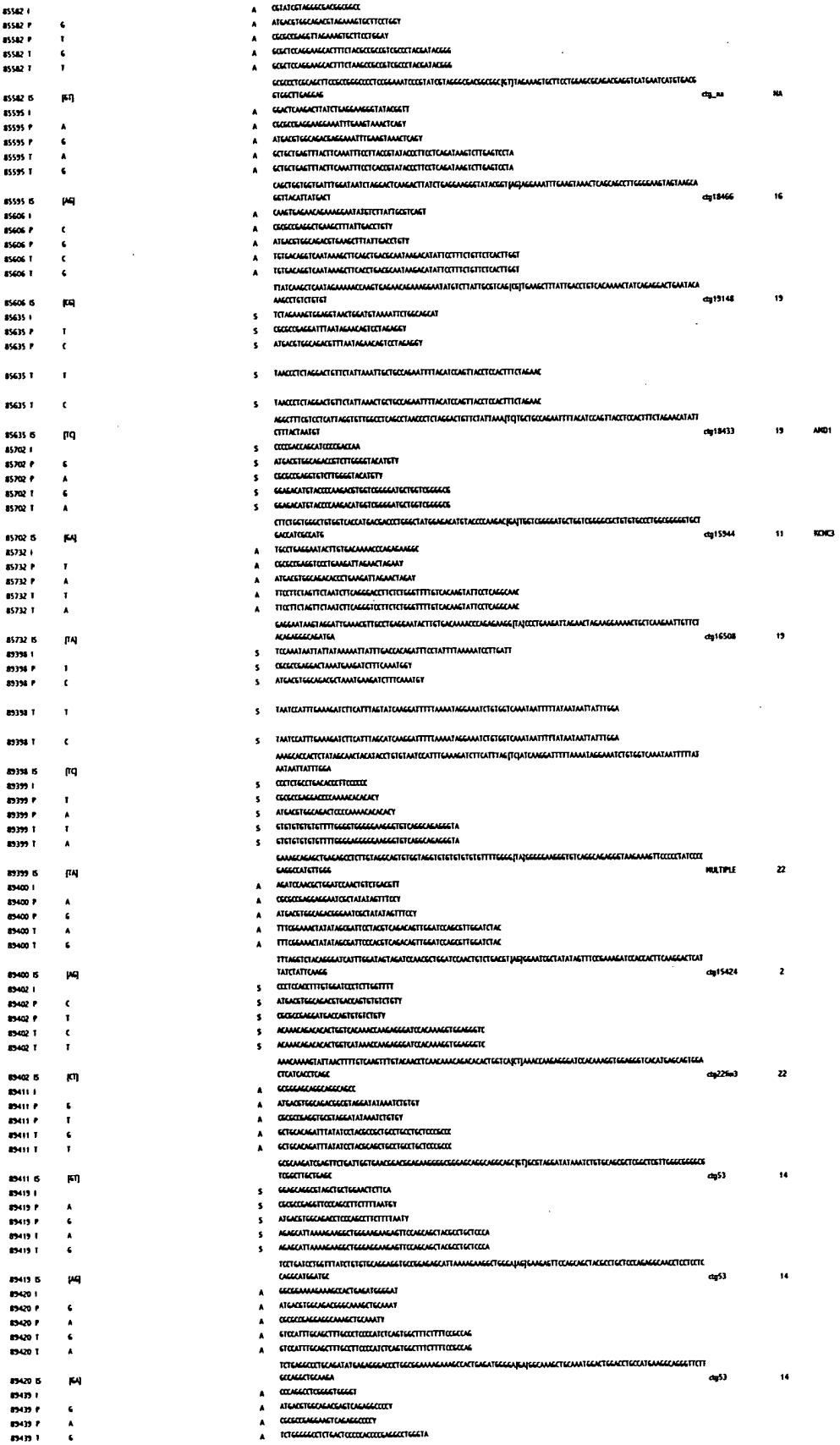


FIGURE 129C





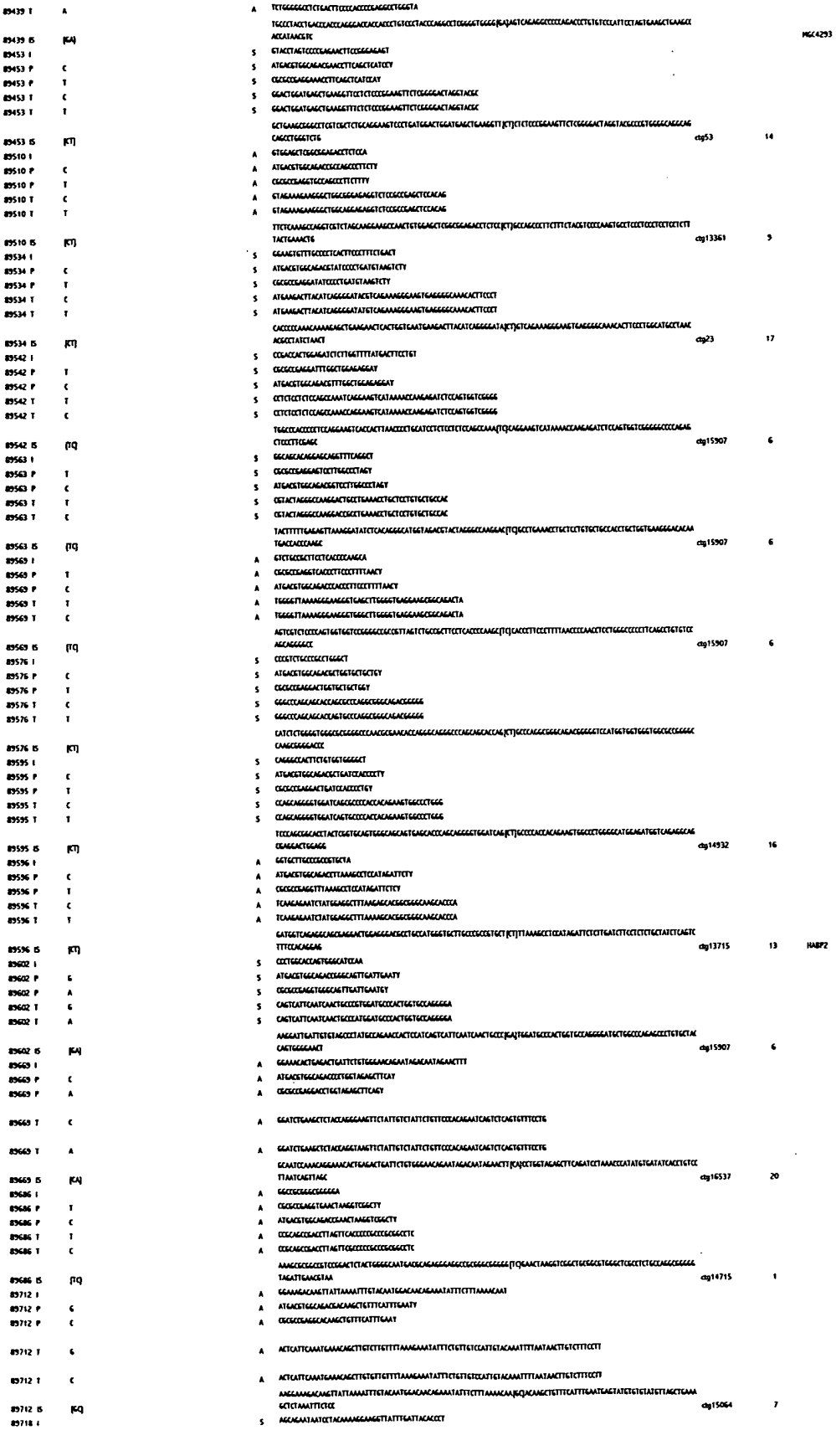
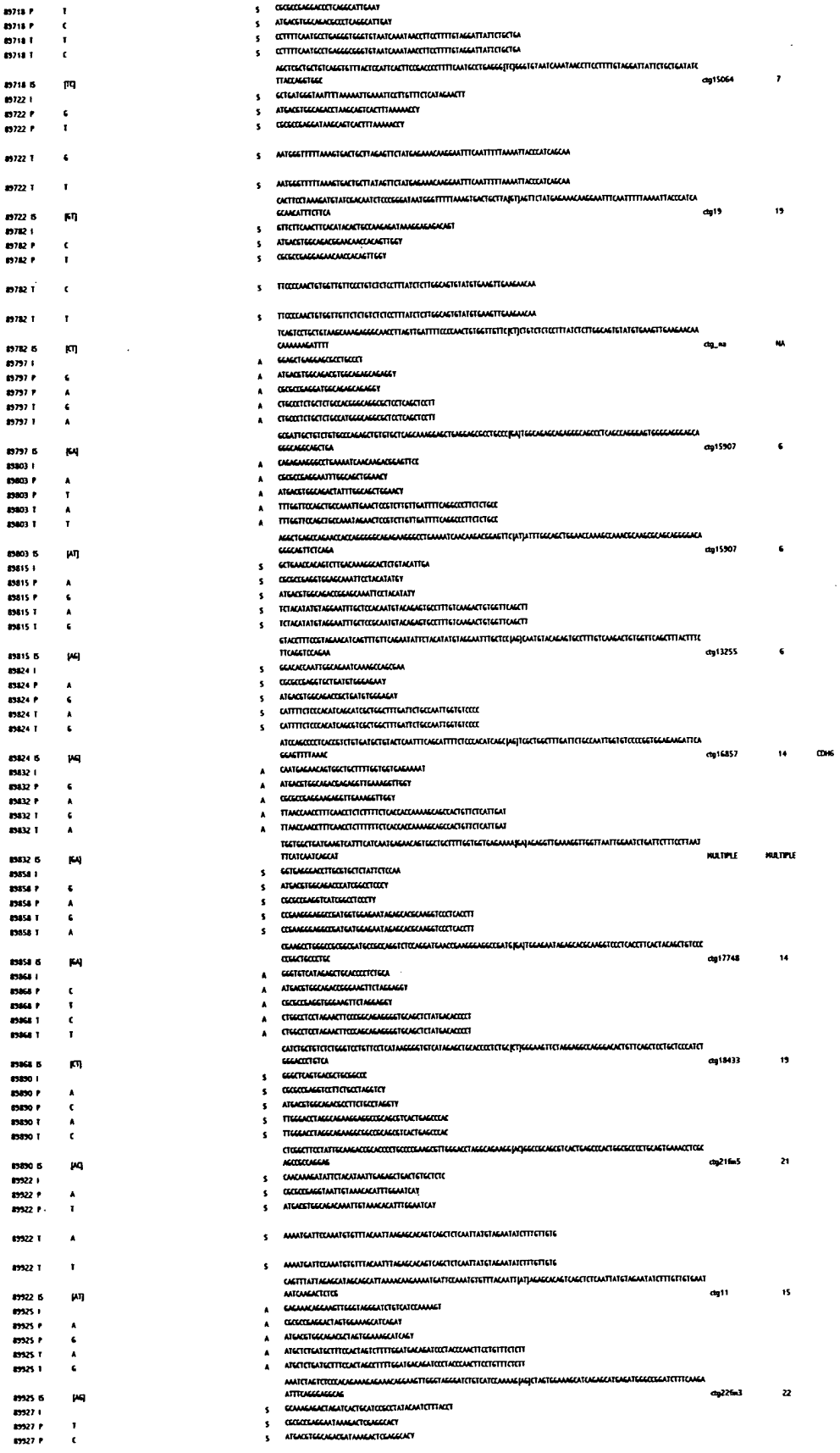
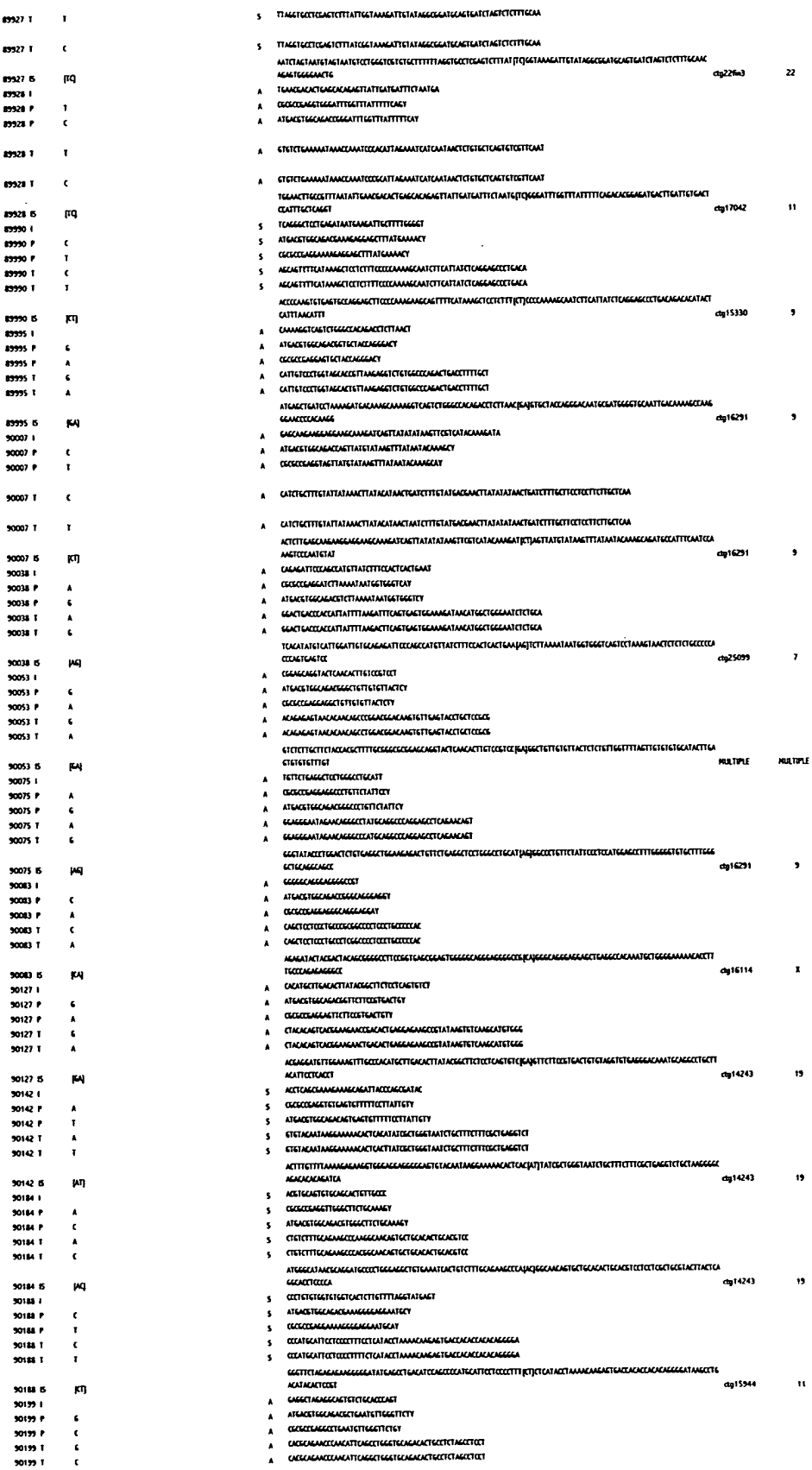


FIGURE 129C





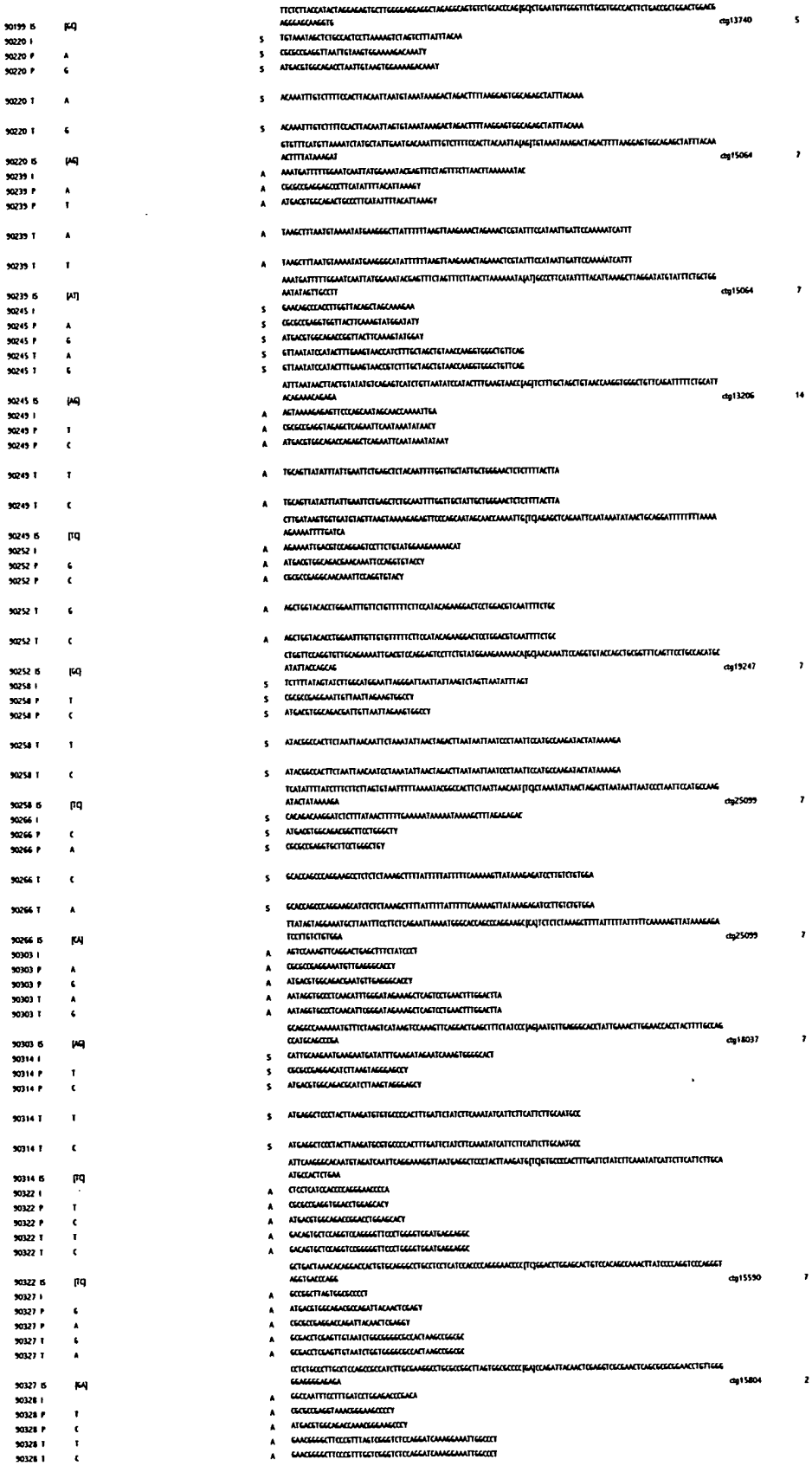
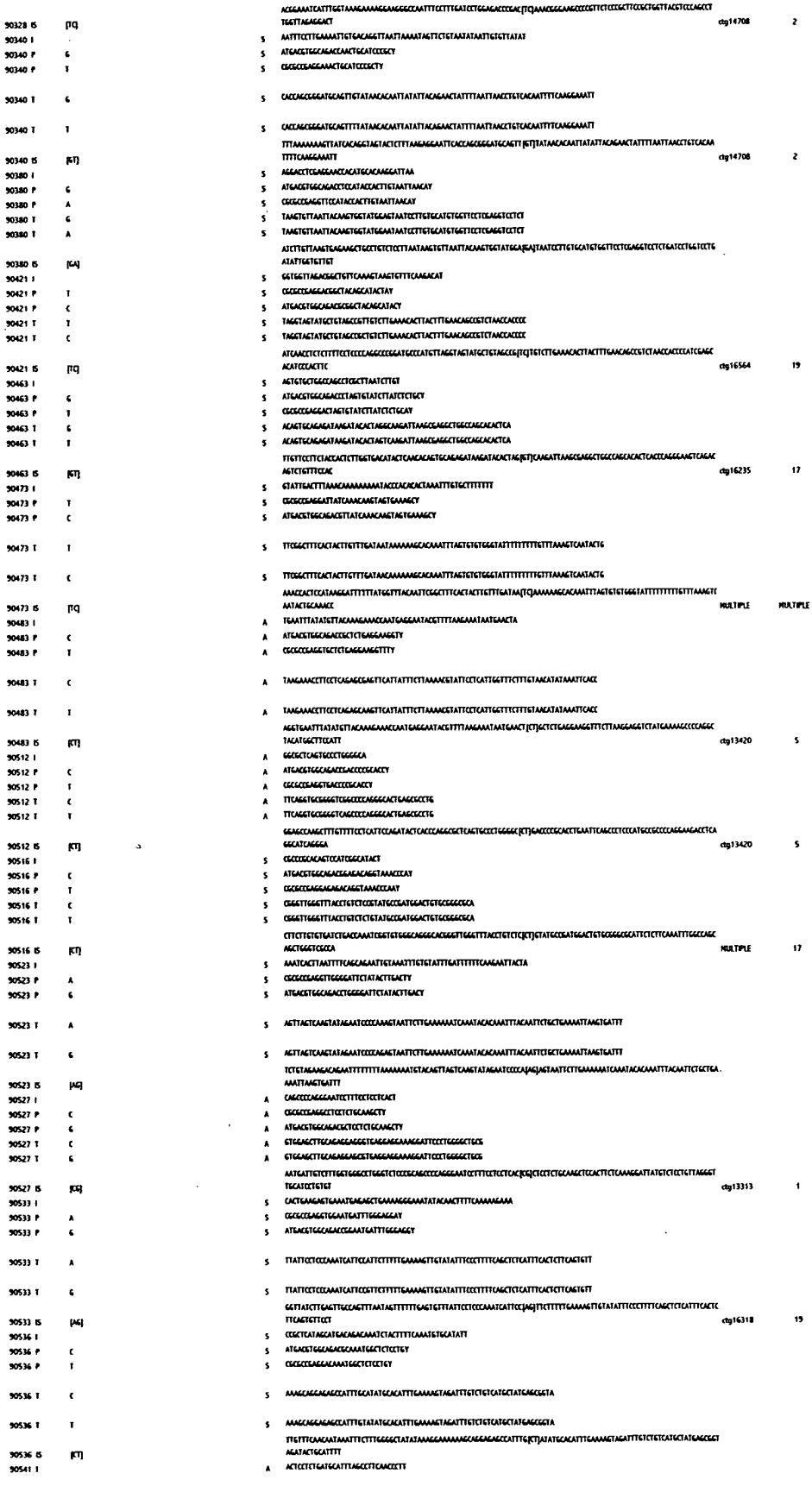
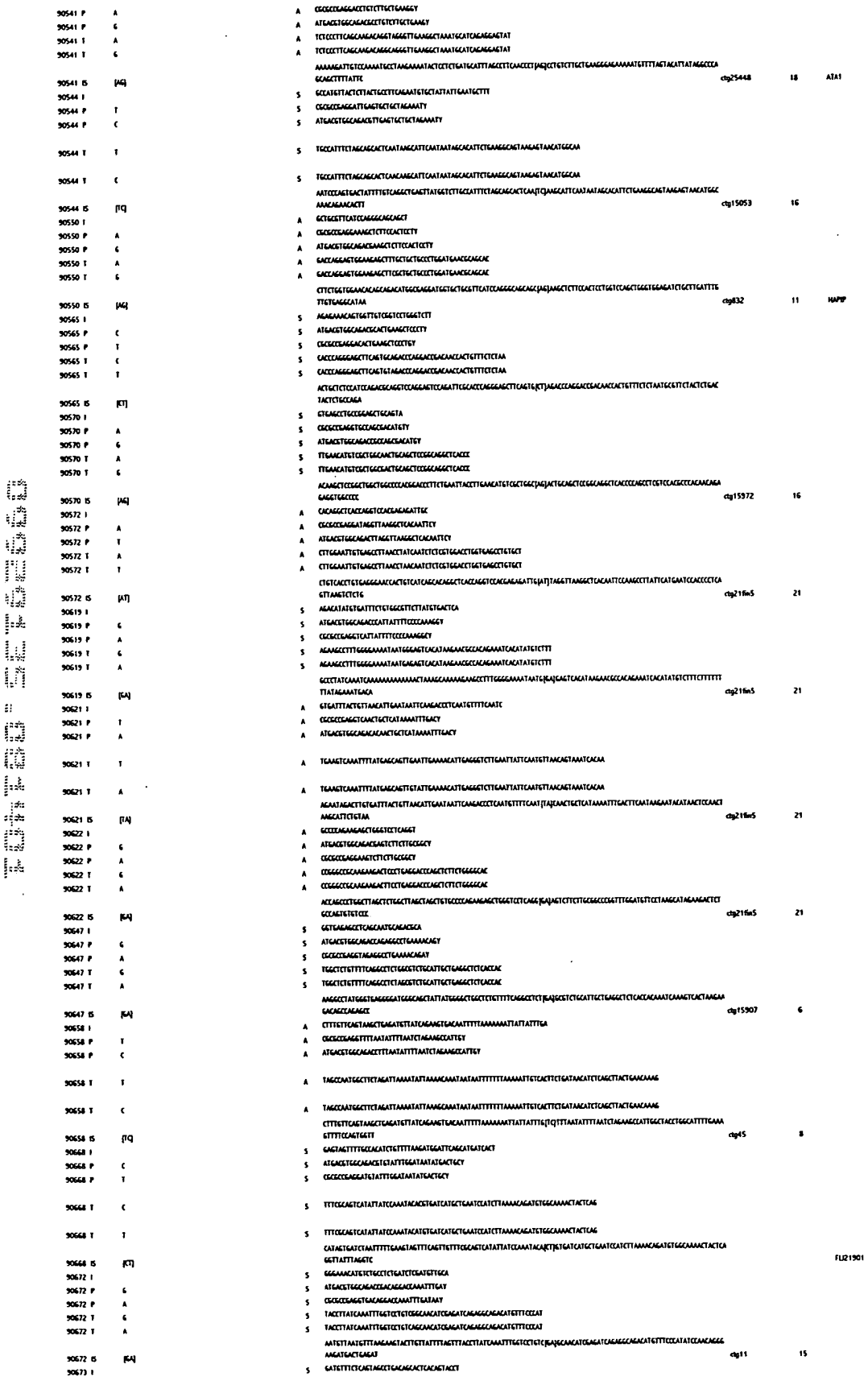
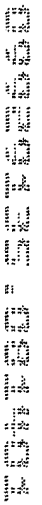


FIGURE 129C

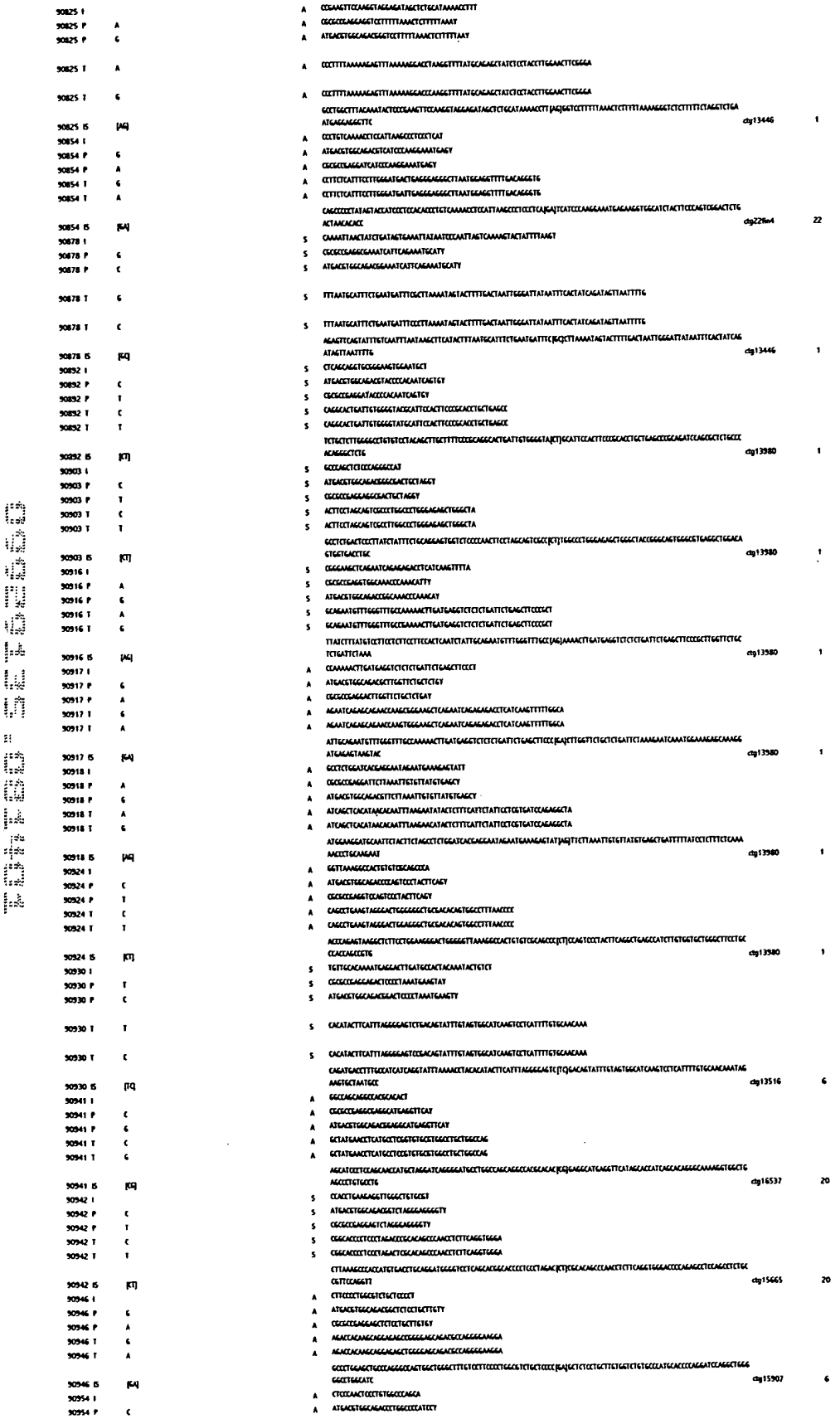




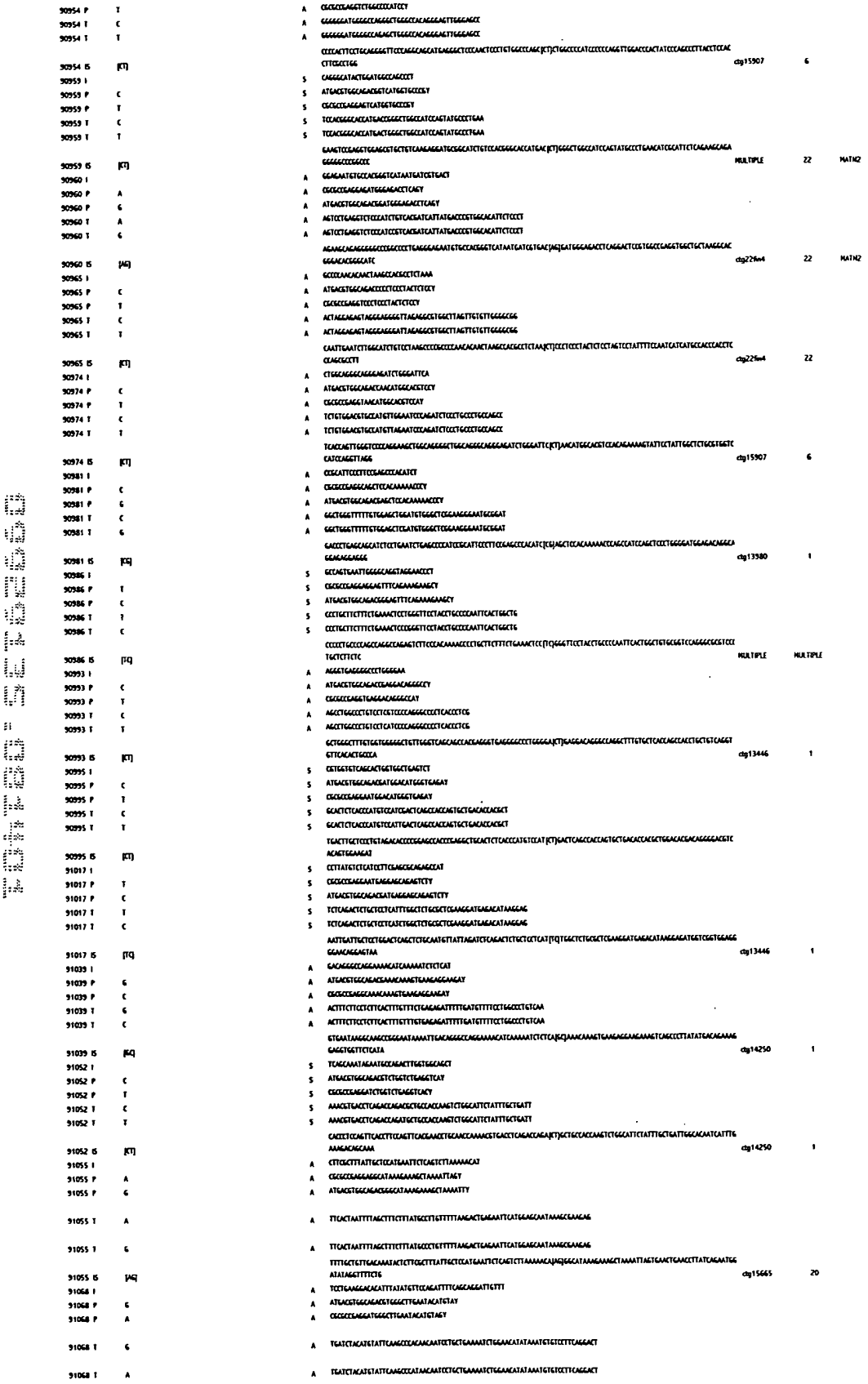


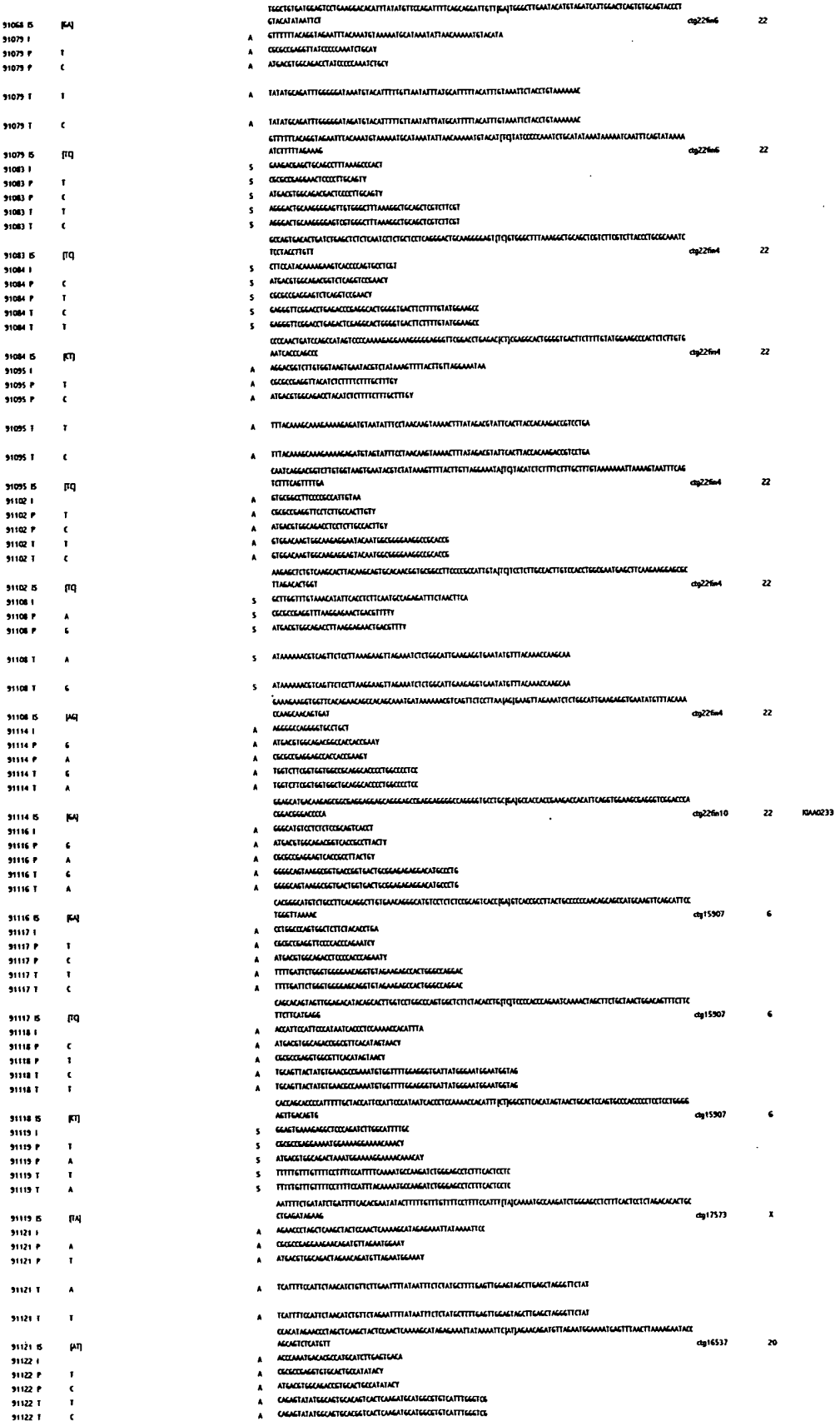
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90799 T	C	S	CTCAGCAGCCCCTGCAGCGTGGACAGCATCTGCGCACTGGGACTCAGGA			
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90812 P	T	A	CGCGCCGAGGTGAAATAATCTTTATGGTTGAGAGY			
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90812 T	T	A	CAAACTCTCAACCATAAAGATTATTTCAGTAGACCCACTCCACTAGAACTTGCATATCTGAATTTCCTTCCAG			
90812 T	C	A	CAAACTCTCAACCATAAAGATTATTTCGGTAGACCCACTCCACTAGAACTTGCATATCTGAATTTCCTTCCAG			
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Docket No. 2000-1-PCT-US
Inventor: Kevin Baker et al.
Title: Novel Human Kinase Proteins and Polynucleotides Encoding the Same
Sheet 129 of 129





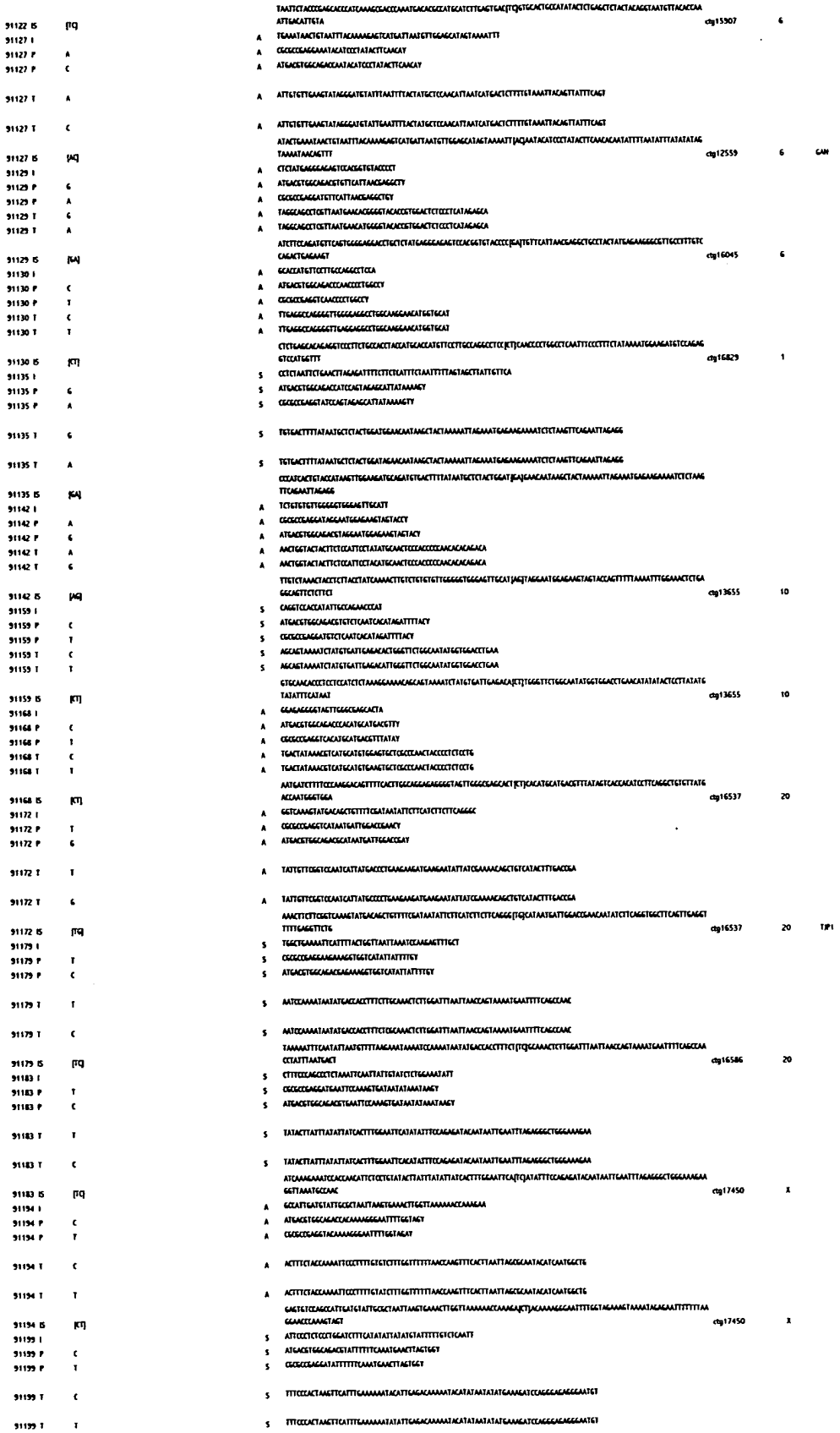
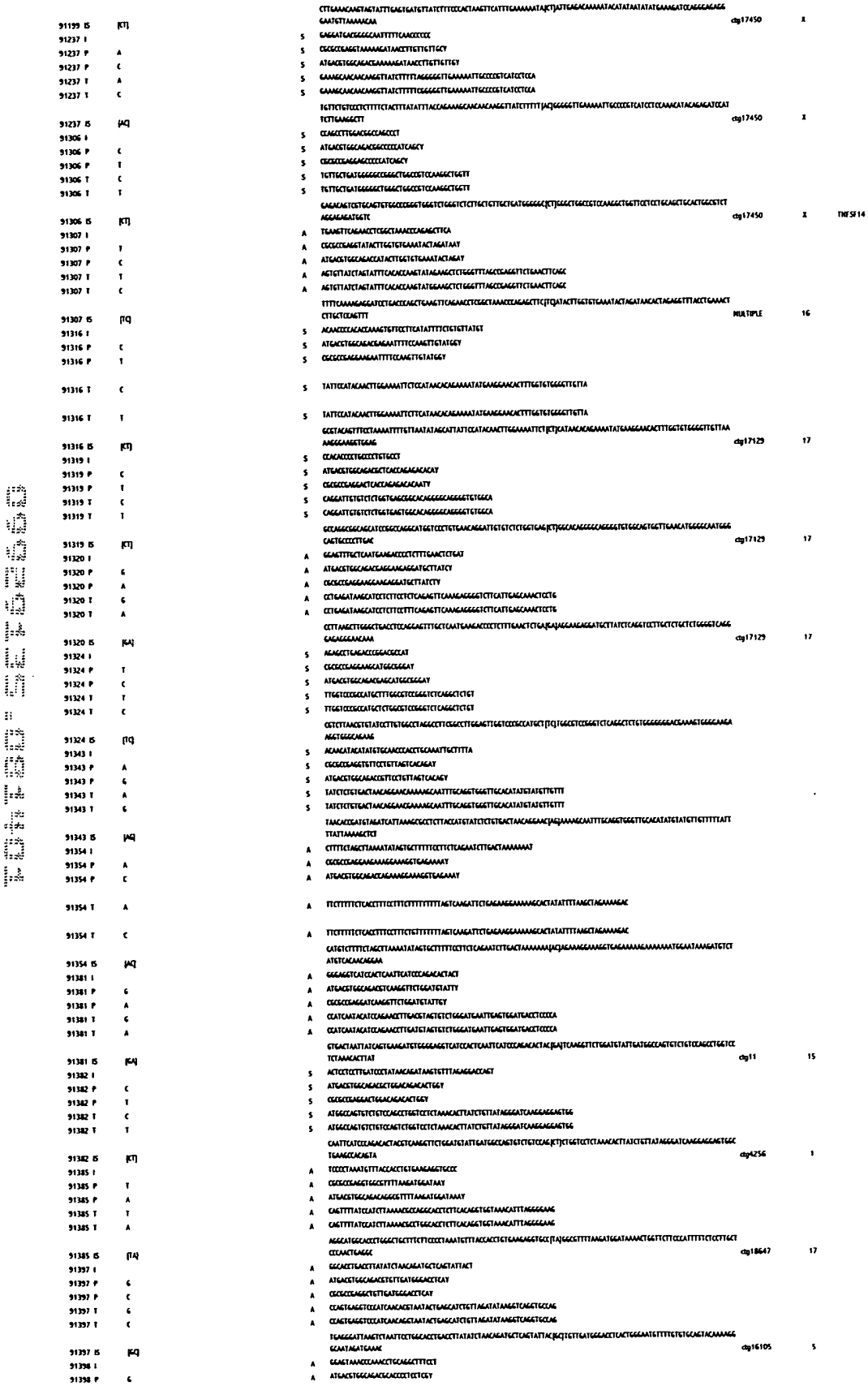
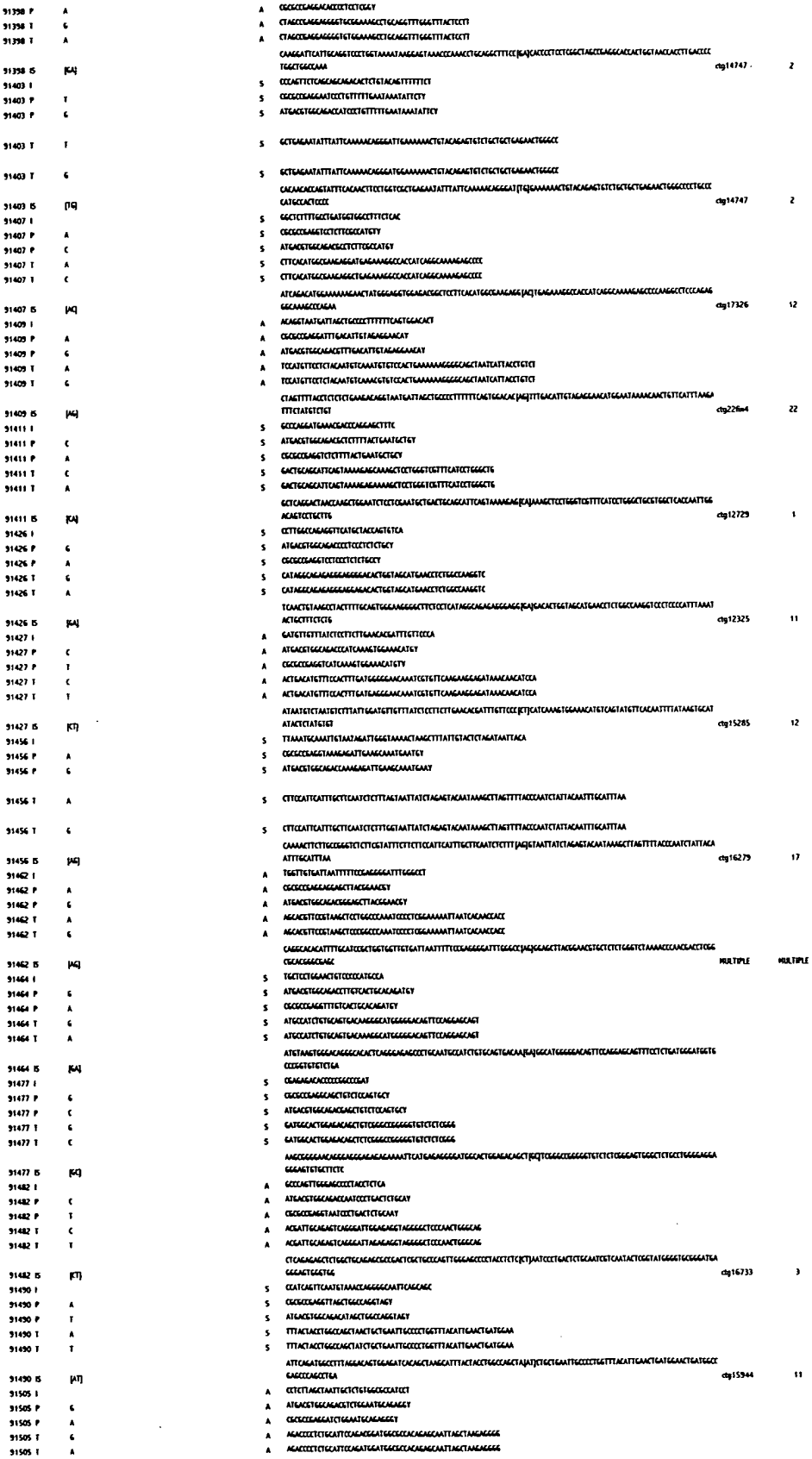
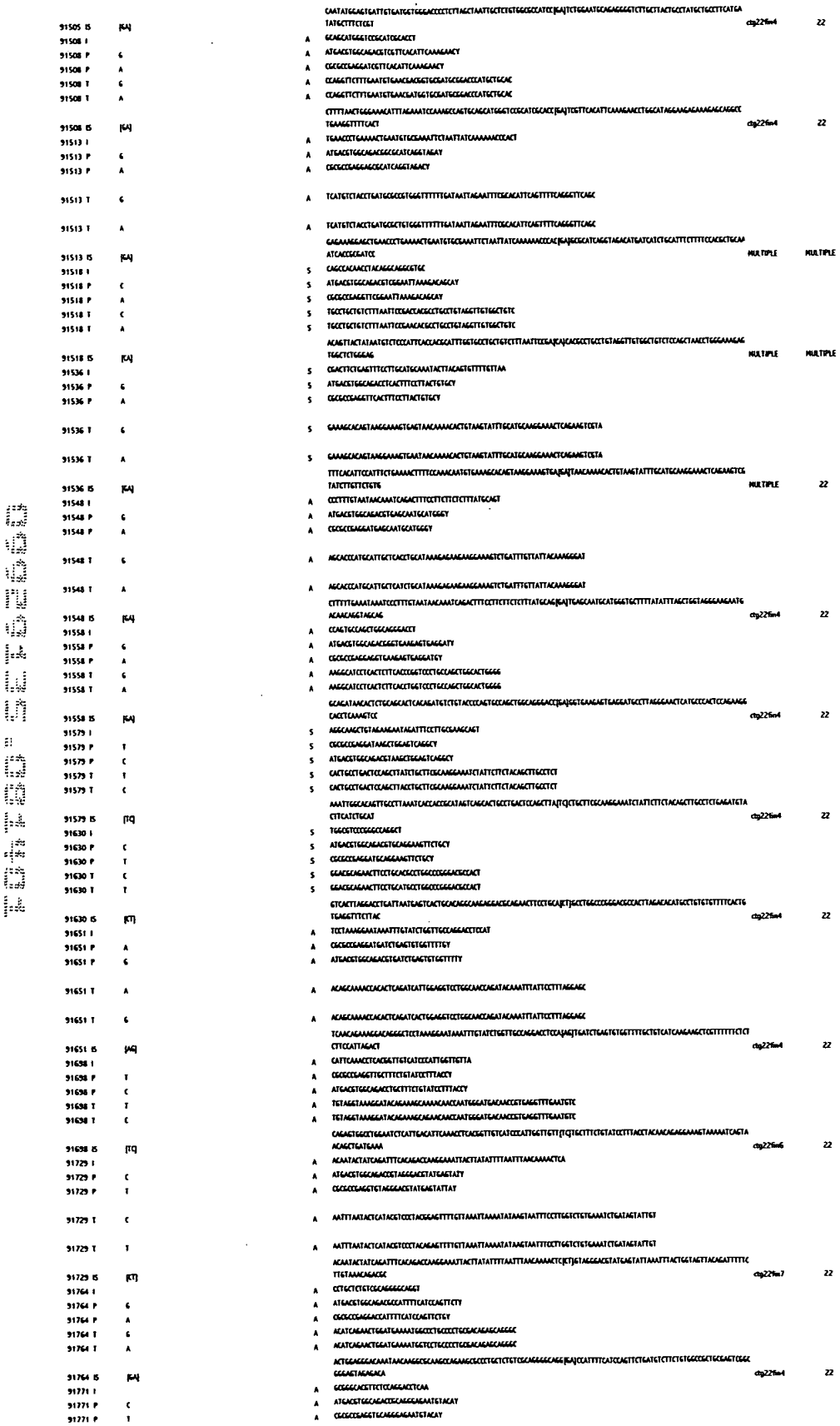
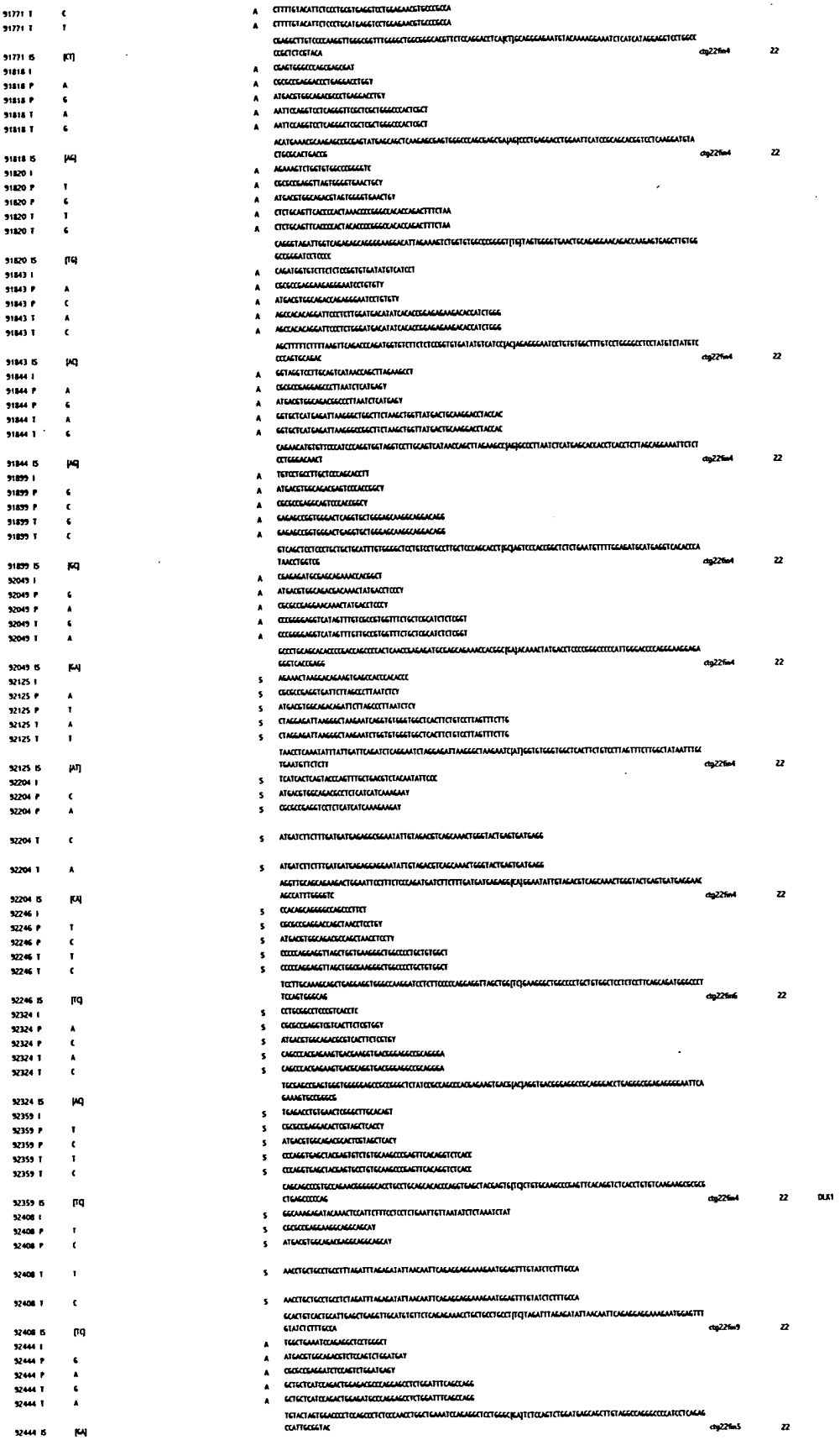


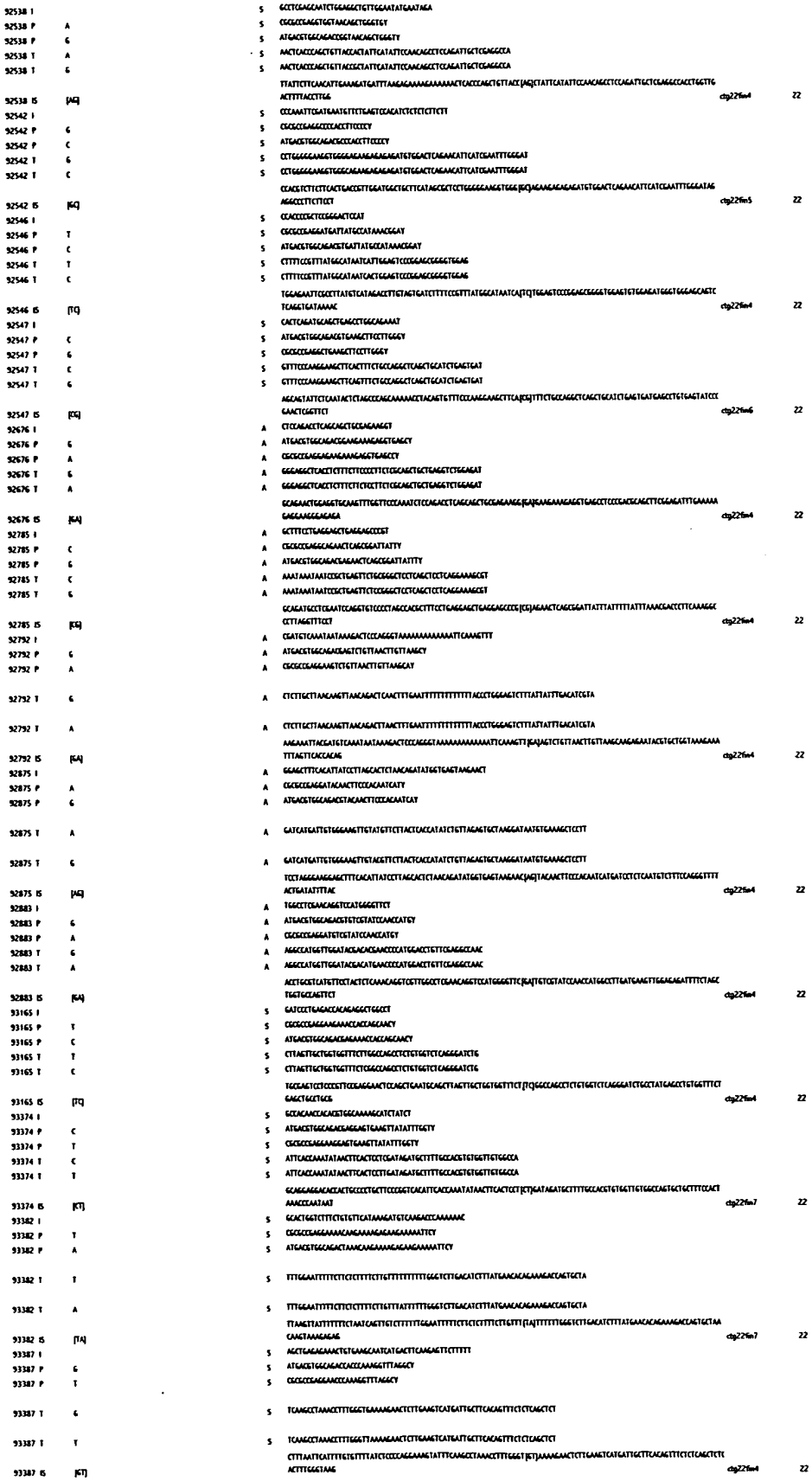
FIGURE 129C

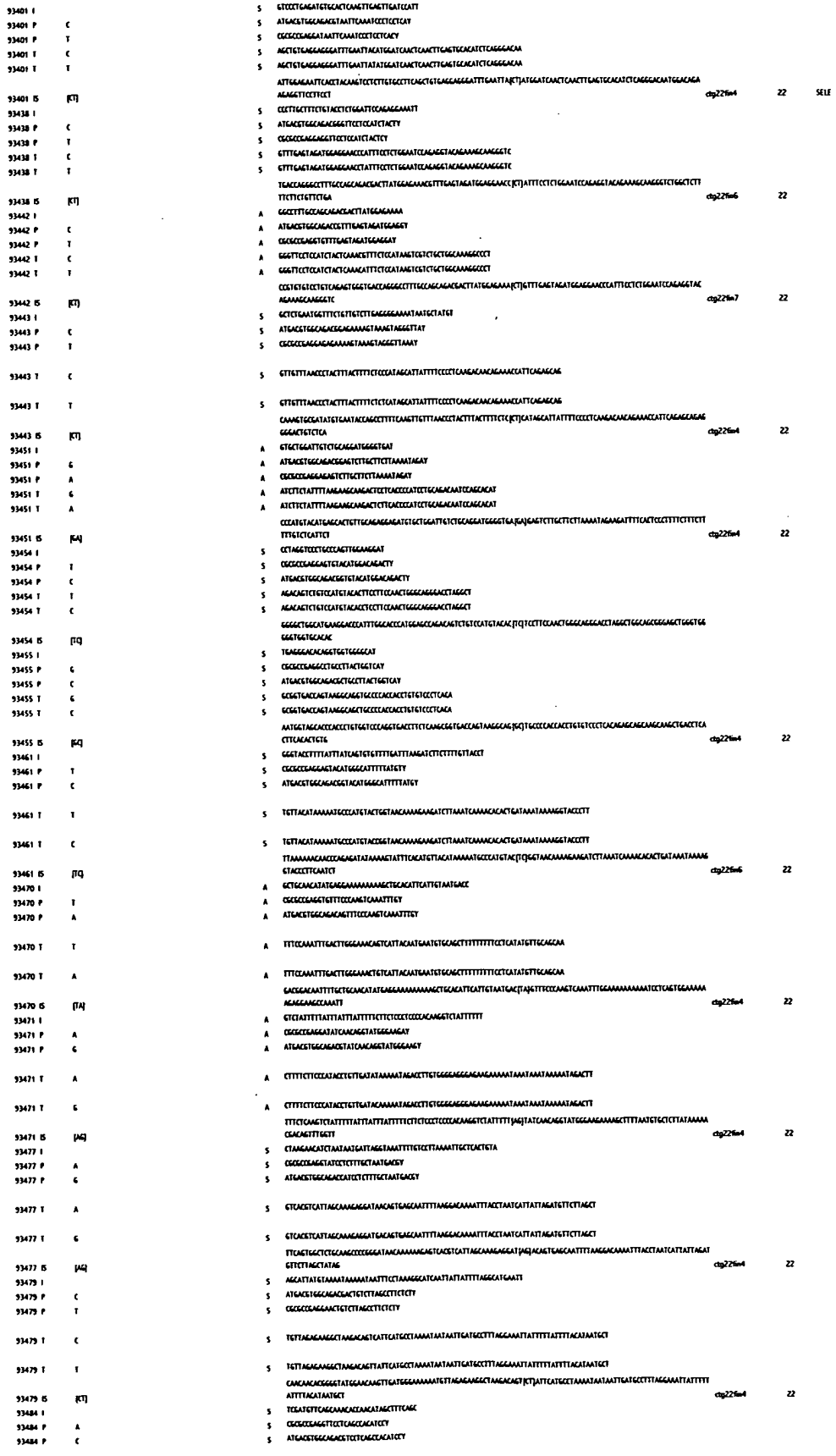


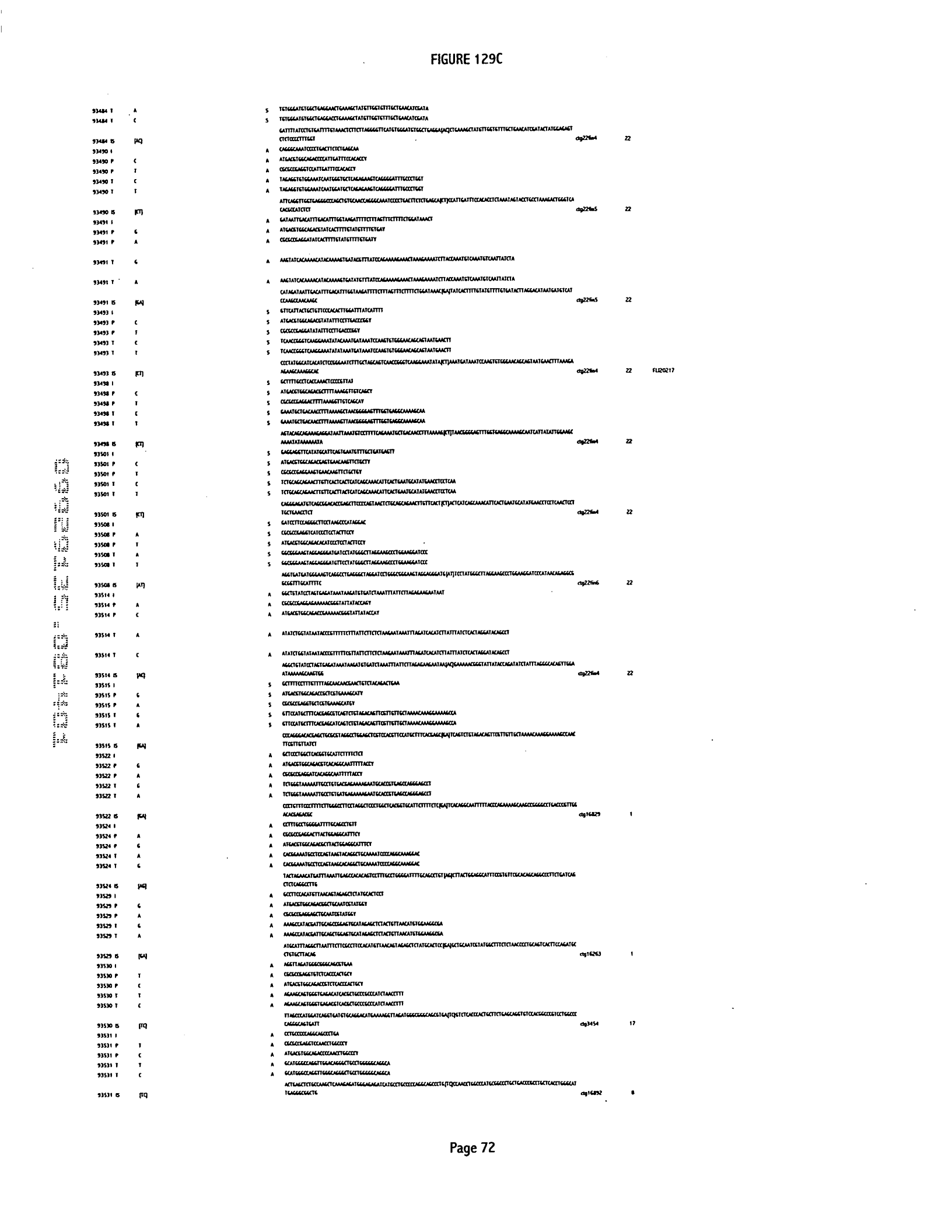


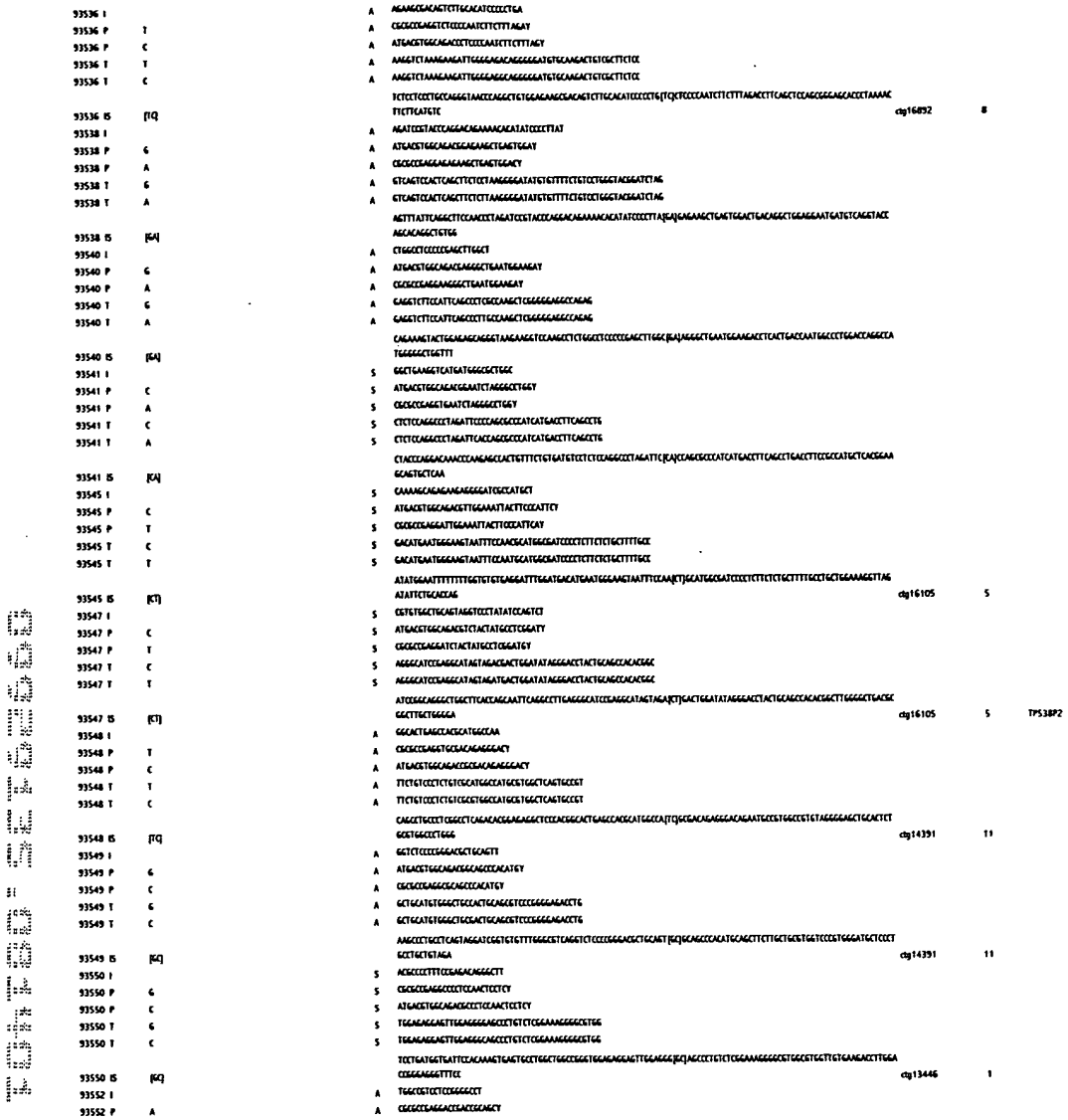







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93471 I A GTCTATTTTTATTTATTTATTTTTCTTCTCCCCCCCACAAGGTCTATTTTTT
93471 P A A CGCGCCGAGGATATCAACAGGTATGGGAAGAY
93471 P G A ATGACGTGGCAGACGTATCAACAGGTATGGGAAGY
93471 T A A CTTTTCTTCCCCATACCTGTTGATATAAAAATAGACCTTGTGGGGAGGGAGAAGAAAAATAAATAAATAAAAATAGACTT
93471 T G A CTTTTCTTCCCCATACCTGTTGATACAAAAATAGACCTTGTGGGGAGGGAGAAGAAAAATAAATAAATAAAAATAGACTT
93471 I5 [AG] TTTCTCAAGTCTATTTTTATTTATTTATTTTTCTTCTCCCTCCCCACAAGGTCTATTTTTJAGJTATCAACAGGTATGGGAAGAAAAGCTTTAATGTGCTCTTATAAAAA CGACAGTTTGGTT ctg22fm4 22
93477 I S CTAAGAACATCTAATAATGATTAGGTAAATTTTGTCCTTAAAATTGCTCACTGTA
93477 P A S CGCGCCGAGGTATCCTCTTTGCTAATGAGGY
93477 P G S ATGACGTGGCAGACCATCCTCTTTGCTAATGAGGY
93477 T A S GTCACGTCATTAGCAAAGAGGATAACAGTGAGCAATTTTAAGGACAAAATTTACCTAATCATTATTAGATGTTCTTAGCT
93477 T G S GTCACGTCATTAGCAAAGAGGATGACAGTGAGCAATTTTAAGGACAAAATTTACCTAATCATTATTAGATGTTCTTAGCT
93477 I5 [AG] TTCAGTGGCTCTGCAAGCCCCGGGATAACAAAAAAGAGTCACGTCATTAGCAAAGAGGATJAGJACAGTGAGCAATTTTAAGGACAAAATTTACCTAATCATTATTAGAT GTTCTTAGCTATAG ctg22fm4 22
93479 I S AGCATTATGTAAAATAAAAATAATTTCCTAAAGGCATCAATTATTATTTTAGGCATGAATT
93479 P C S ATGACGTGGCAGACGACTGTCTTAGCCTTCTCTY
93479 P T S CGCGCCGAGGAACTGTCTTAGCCTTCTCTY
93479 T C S TGTTAGAGAAGGCTAAGACAGTCATTCATGCCTAAAATAATAATTGATGCCTTTAGGAAATTATTTTTATTTTACATAATGCT
93479 T T S TGTTAGAGAAGGCTAAGACAGTTATTCATGCCTAAAATAATAATTGATGCCTTTAGGAAATTATTTTTATTTTACATAATGCT
93479 I5 [CT] CAACAACACGGGGTATGGAACAGTTGATGGGAAAAAATGTTAGAGAAGGCTAAGACAGT[CT]ATTCATGCCTAAAATAATAATTGATGCCTTTAGGAAATTATTTTT ATTTTACATAATGCT ctg22fm4 22
93484 I S TCGATGTTCAGCAAACACAACATAGCTTTCAGC
93484 P A S CGCGCCGAGGTTCCTCAGCCACATCCY
93484 P C S ATGACGTGGCAGACGTCCTCAGCCACATCCY





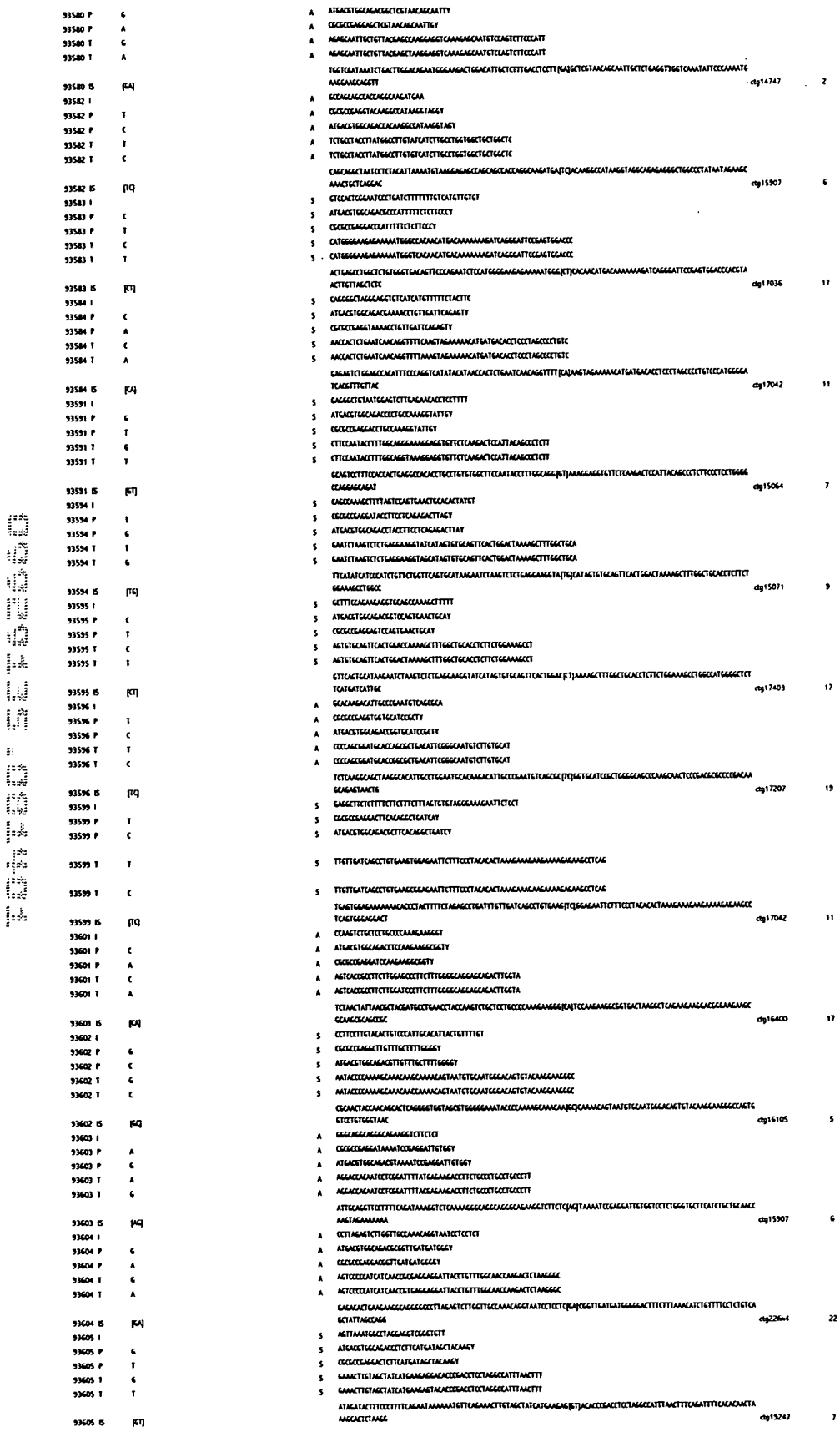
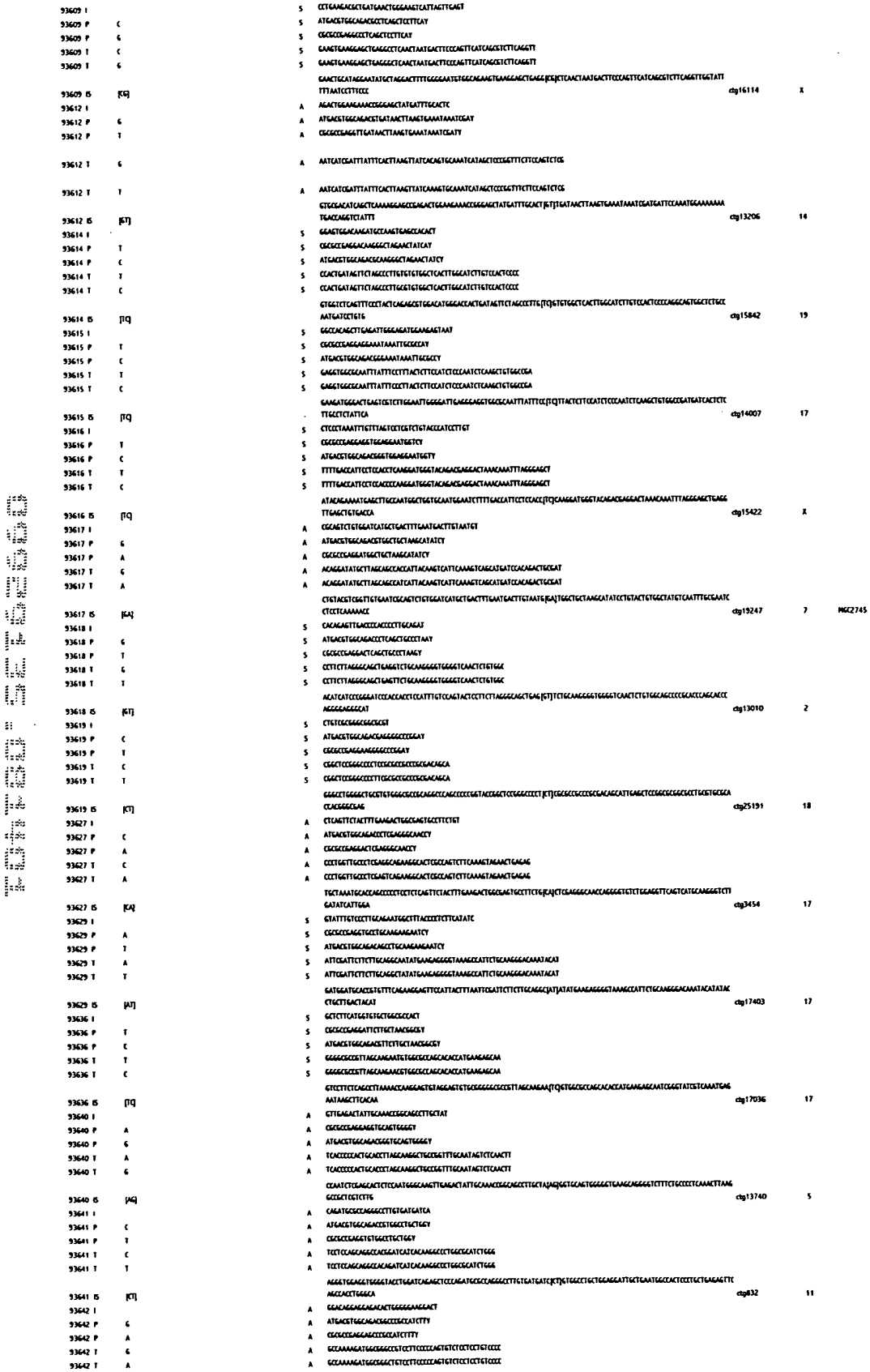
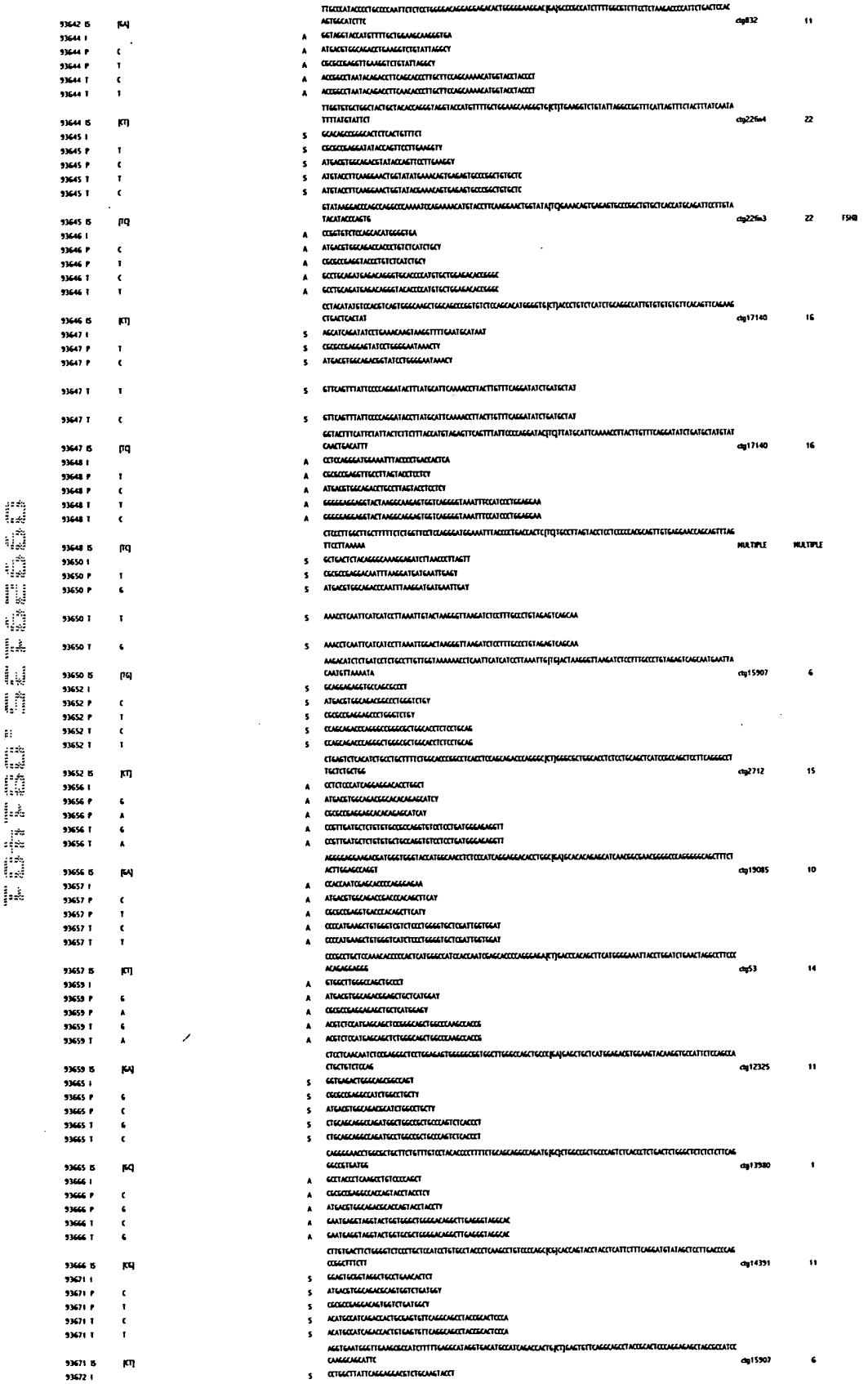
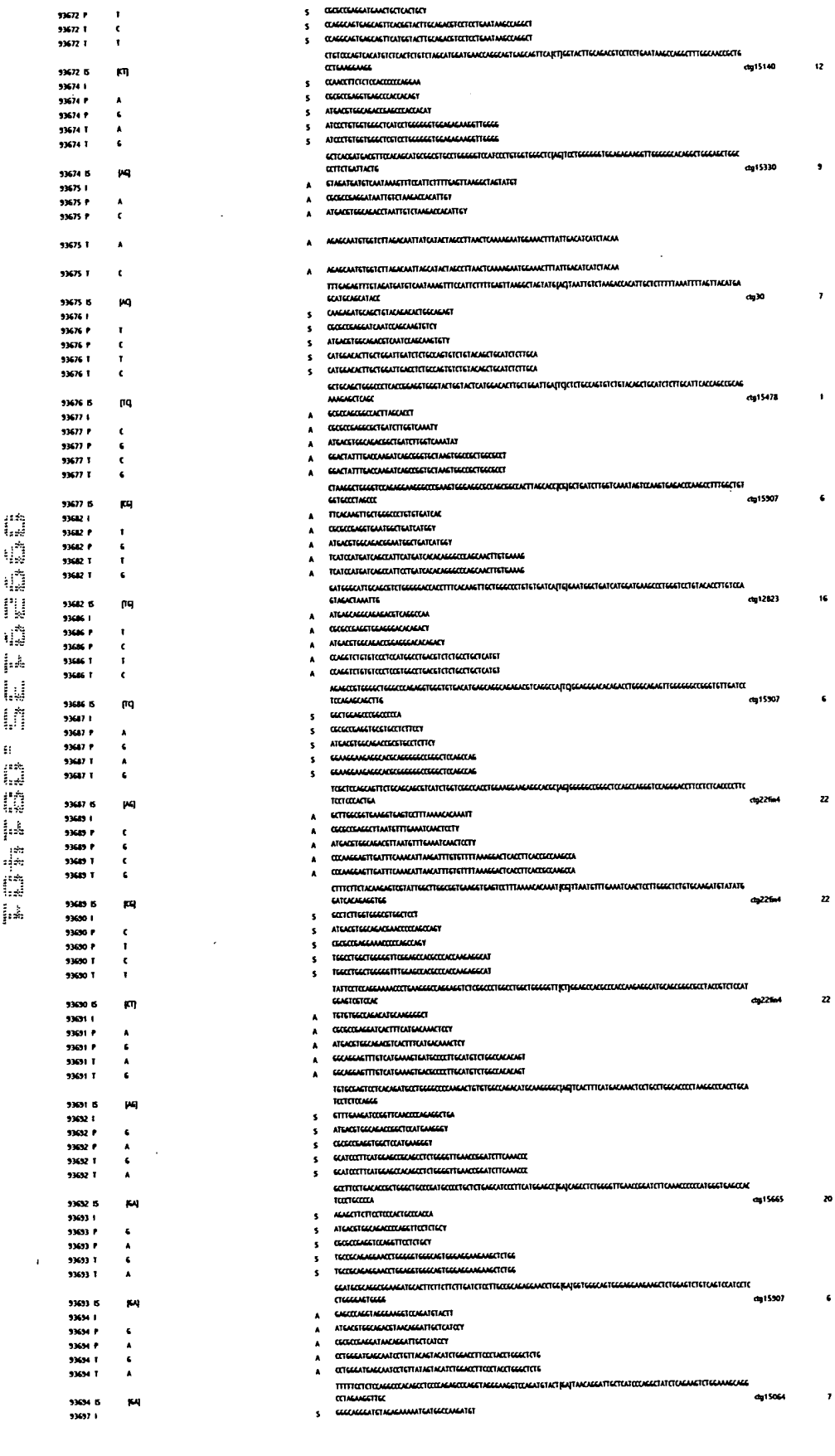
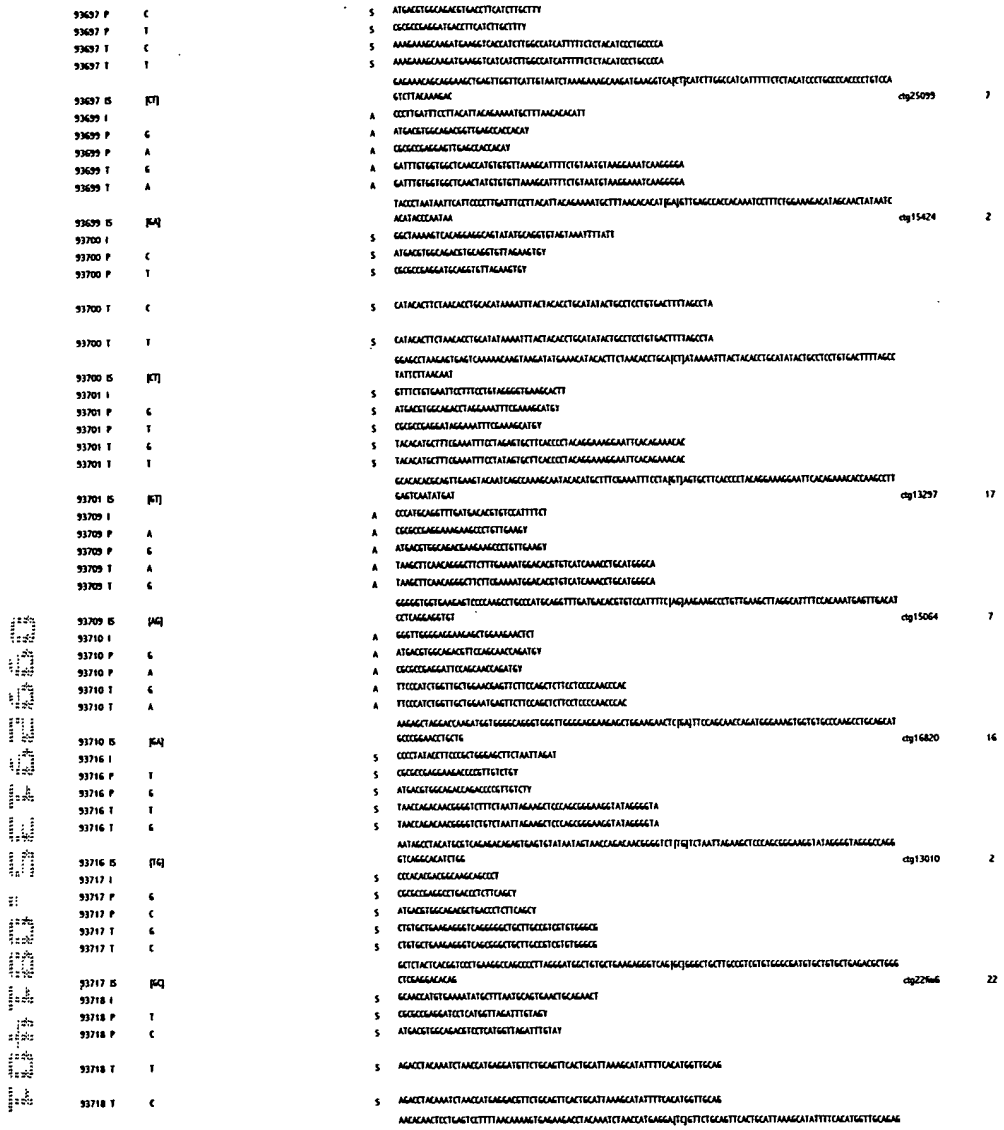


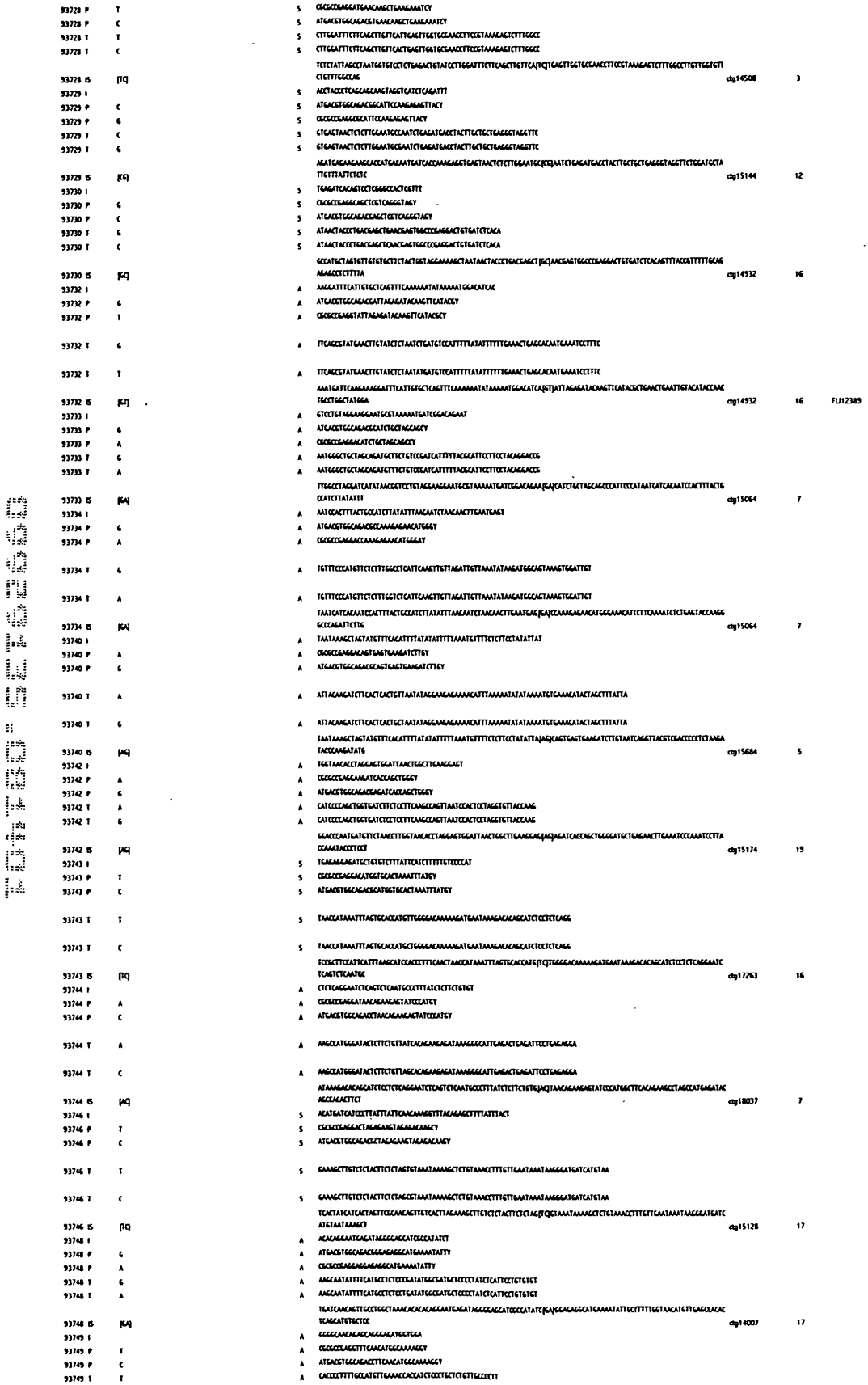
FIGURE 129C

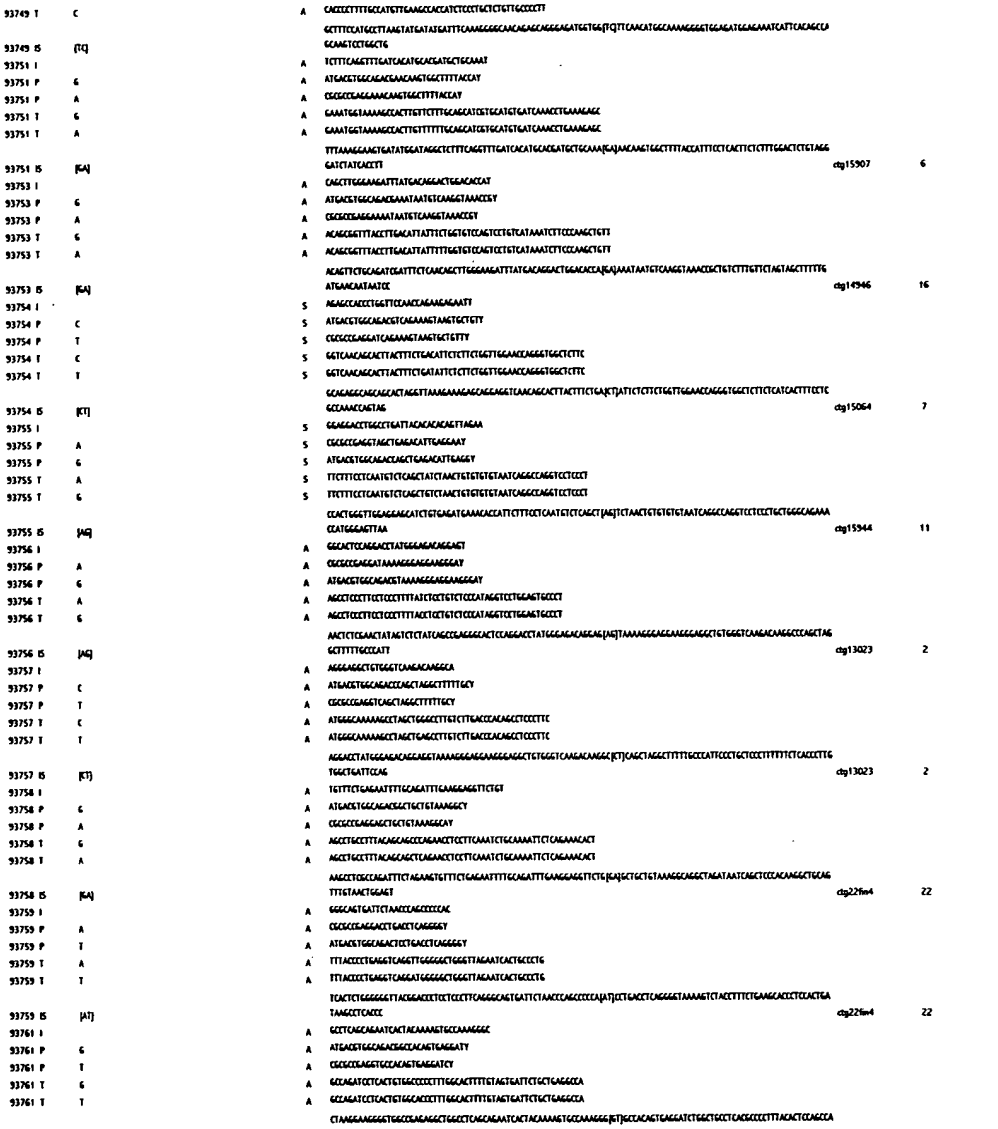


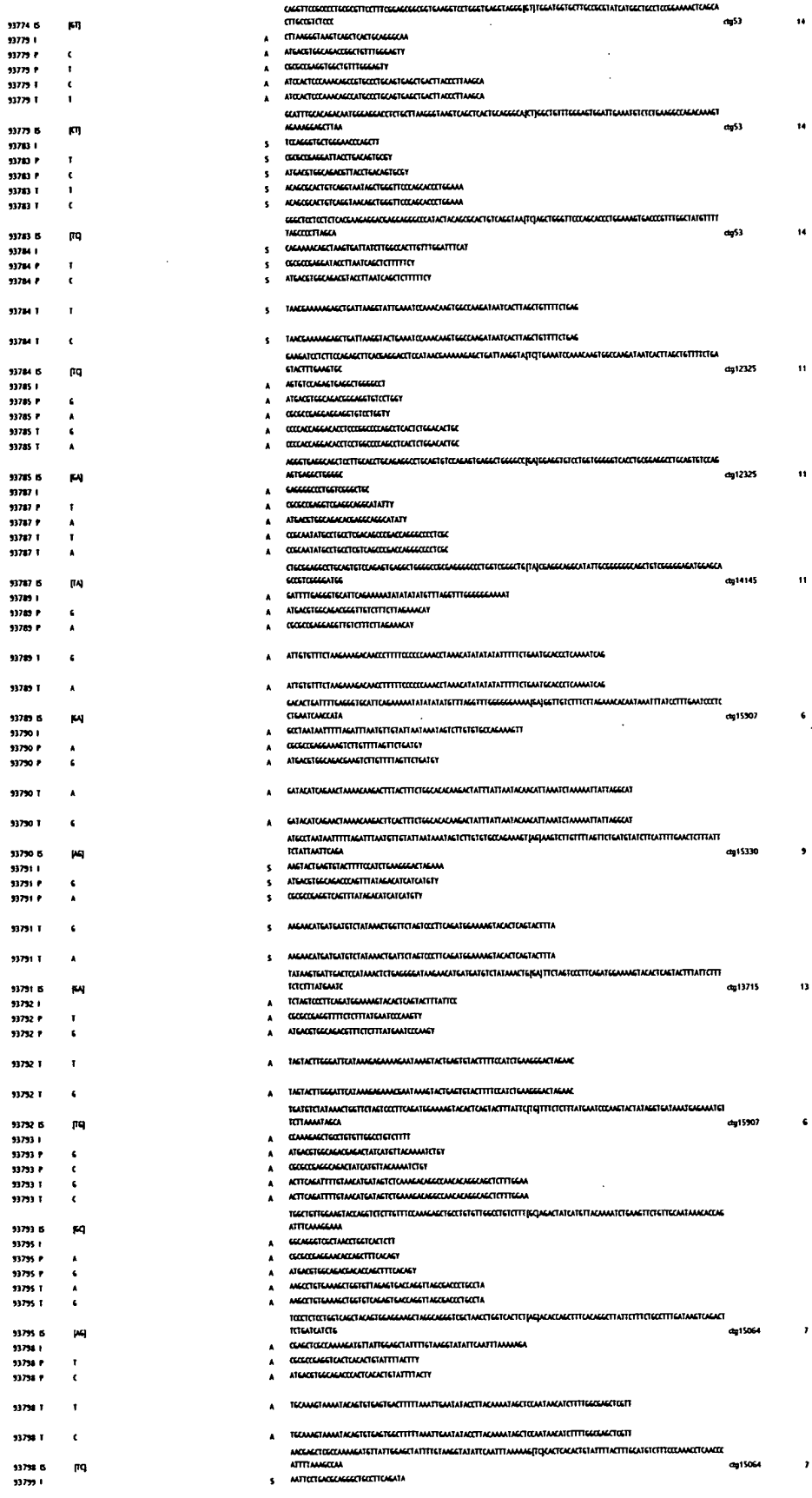


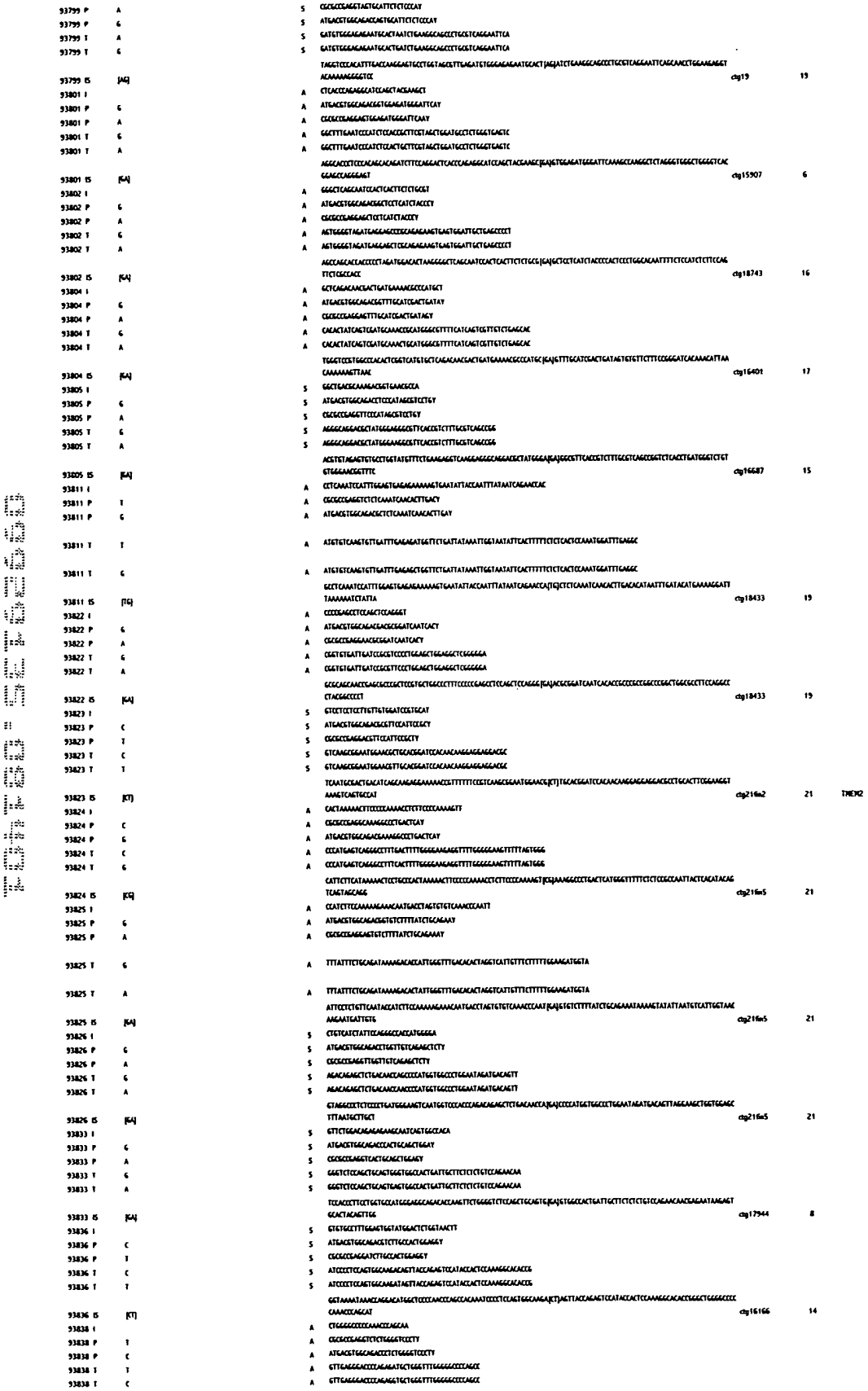












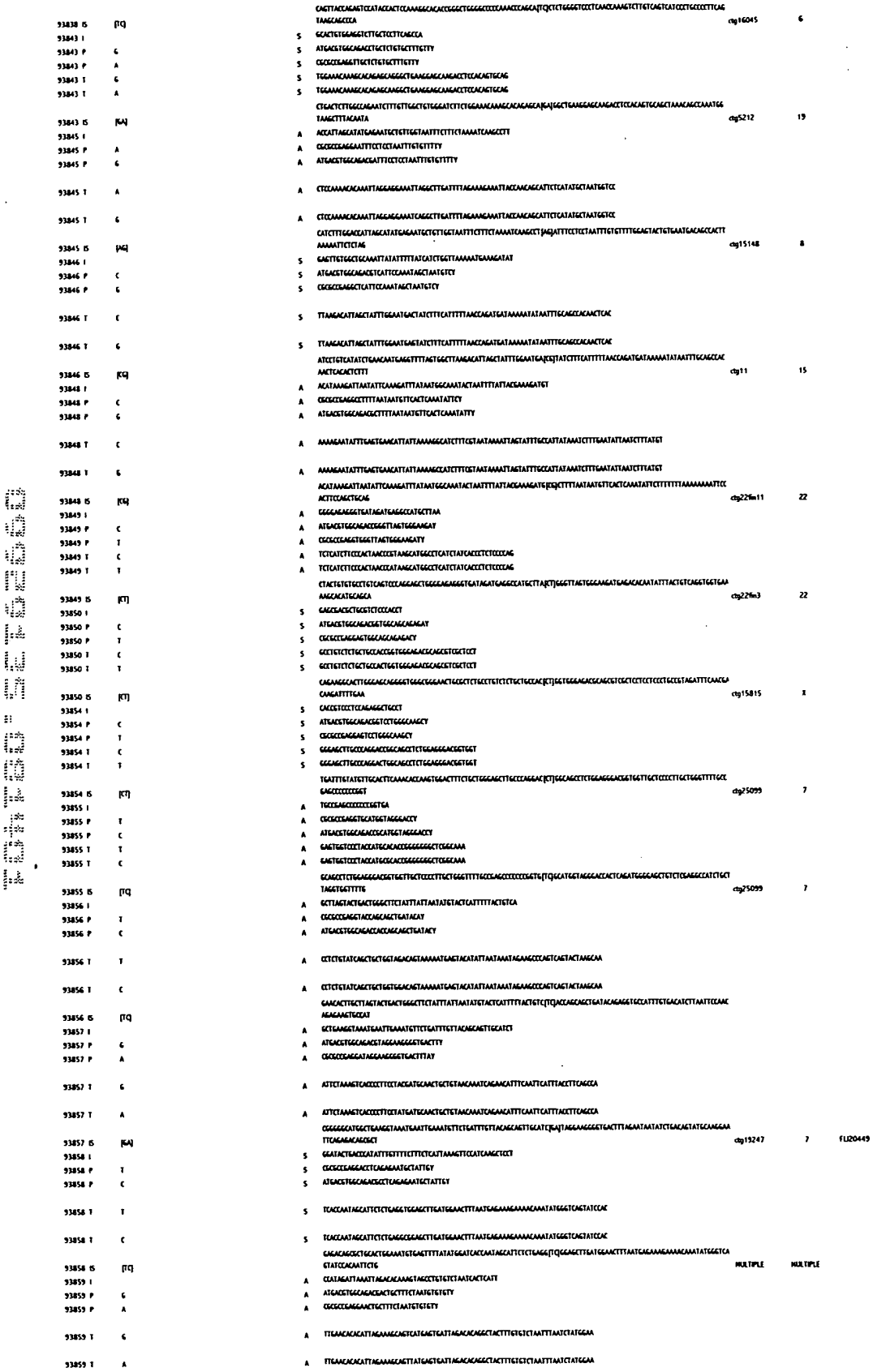
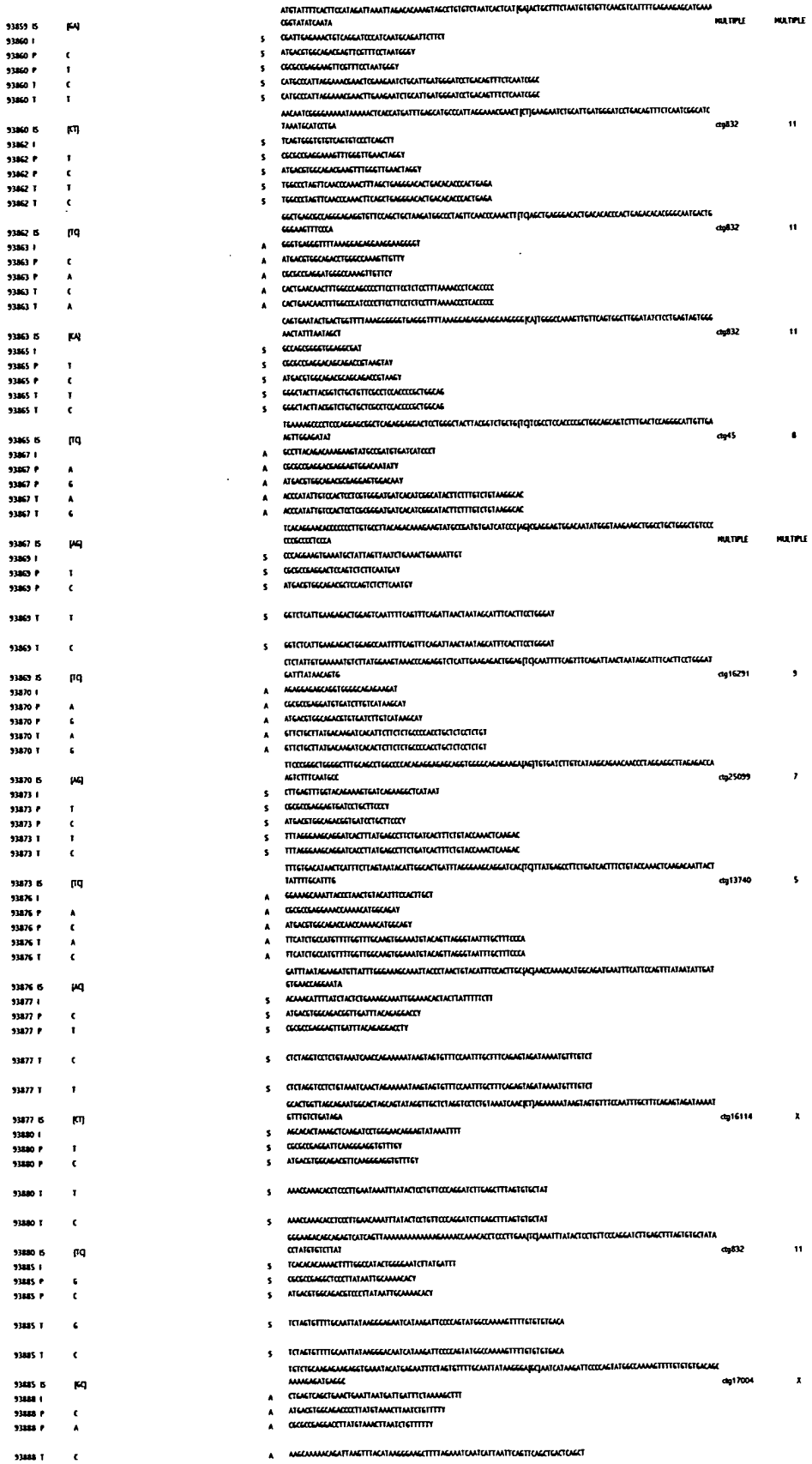
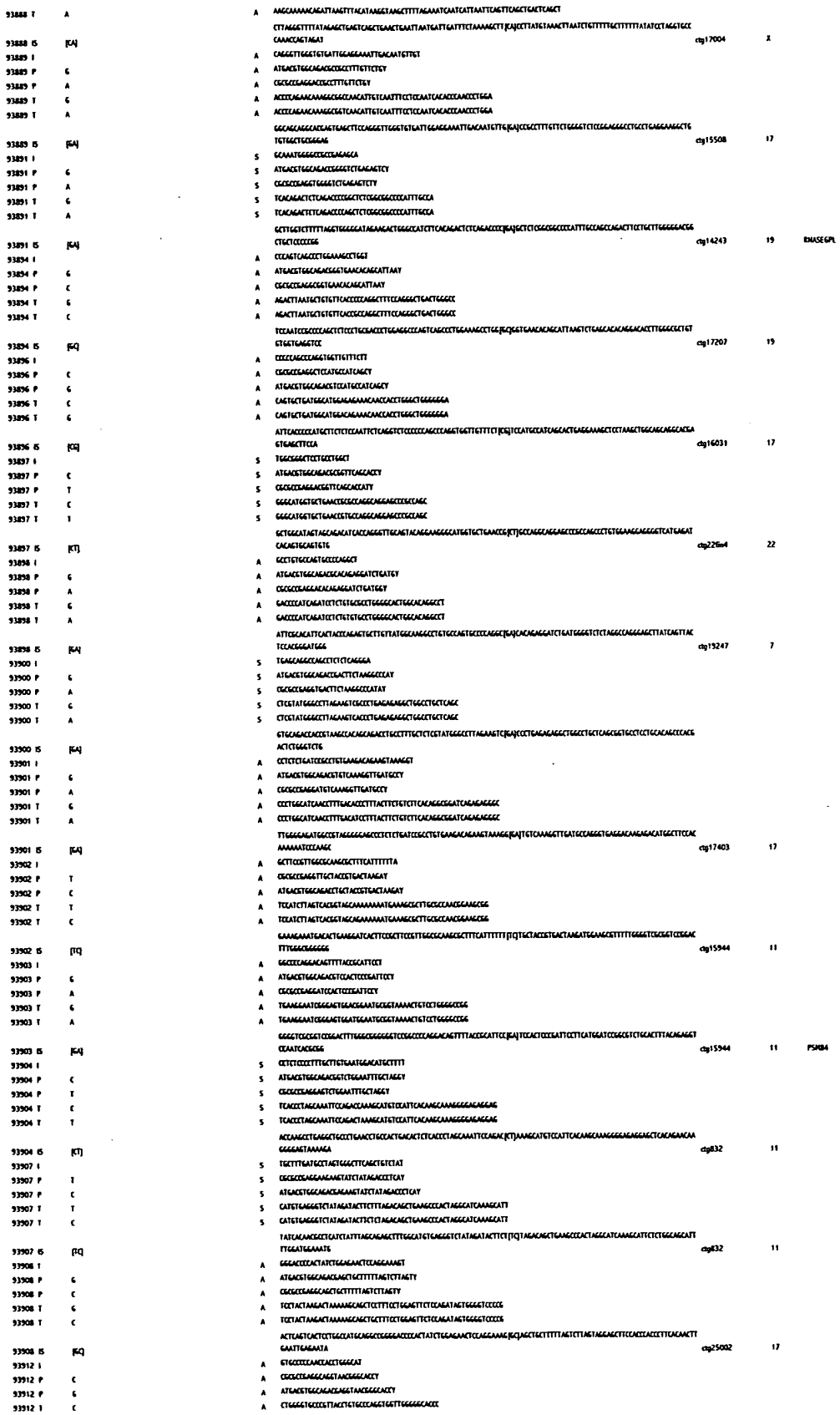


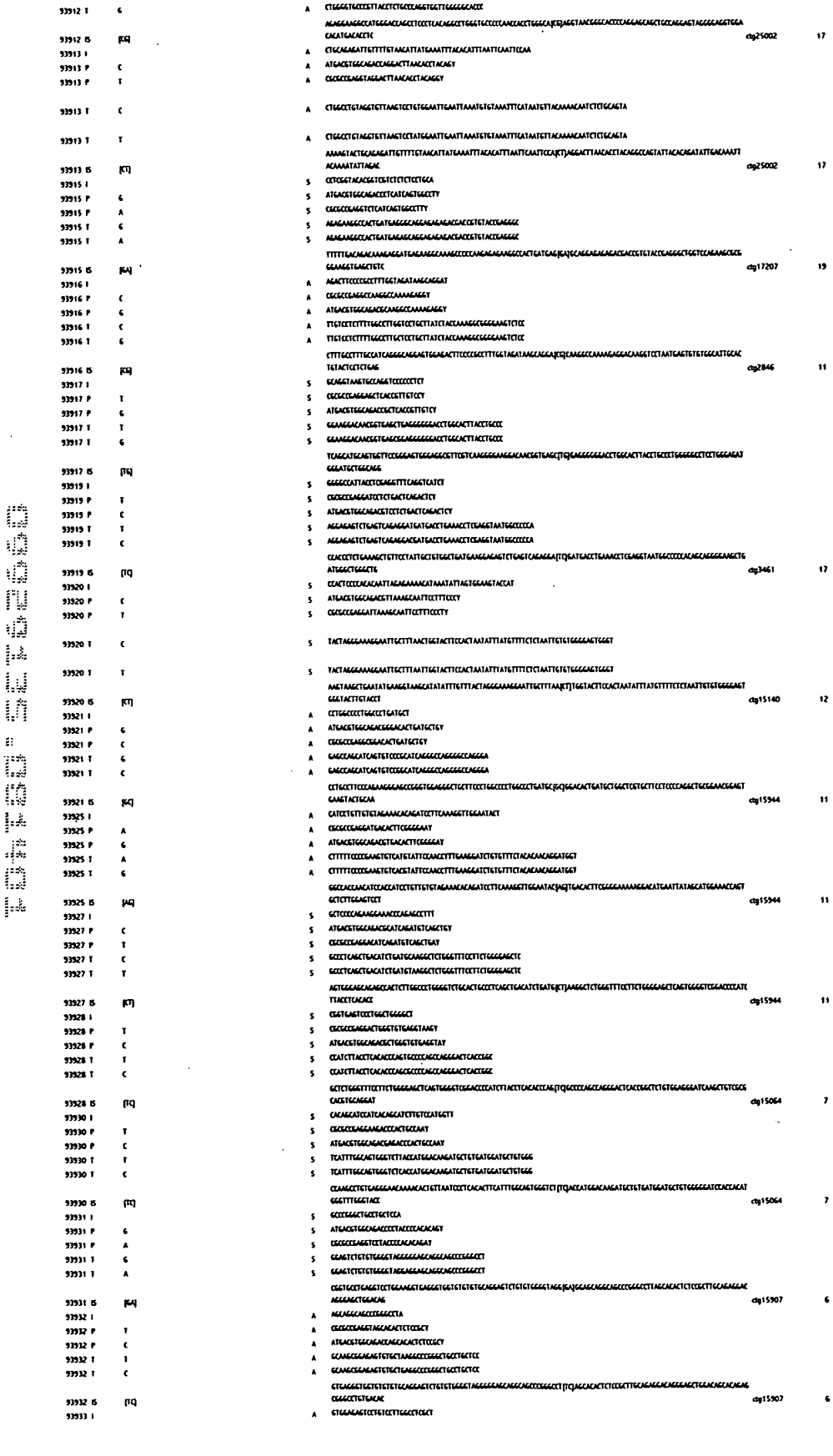
FIGURE 129C



Sequence Listing Not Part Of Description

FIGURE 129C





Unpublished

FIGURE 129C

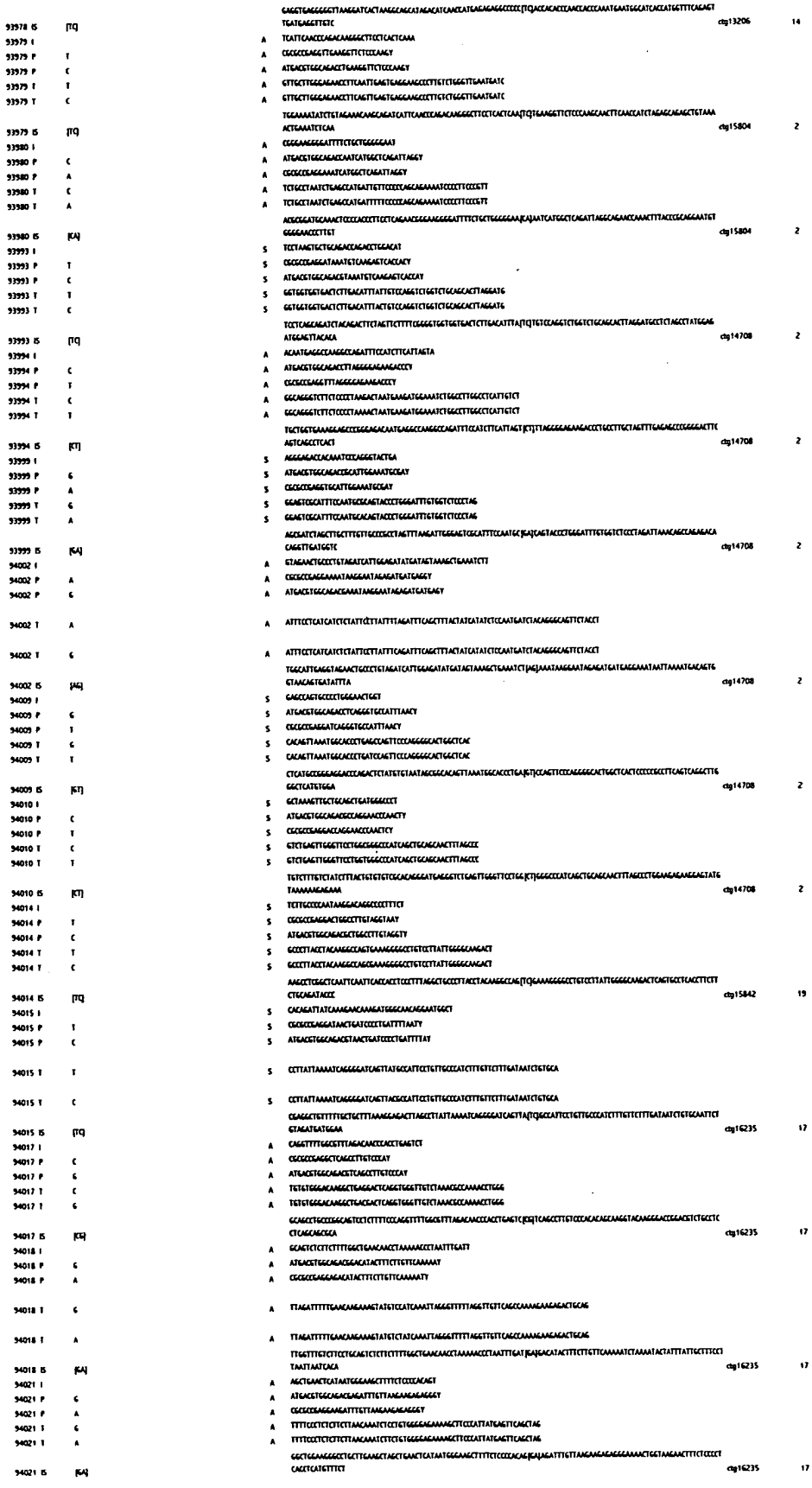
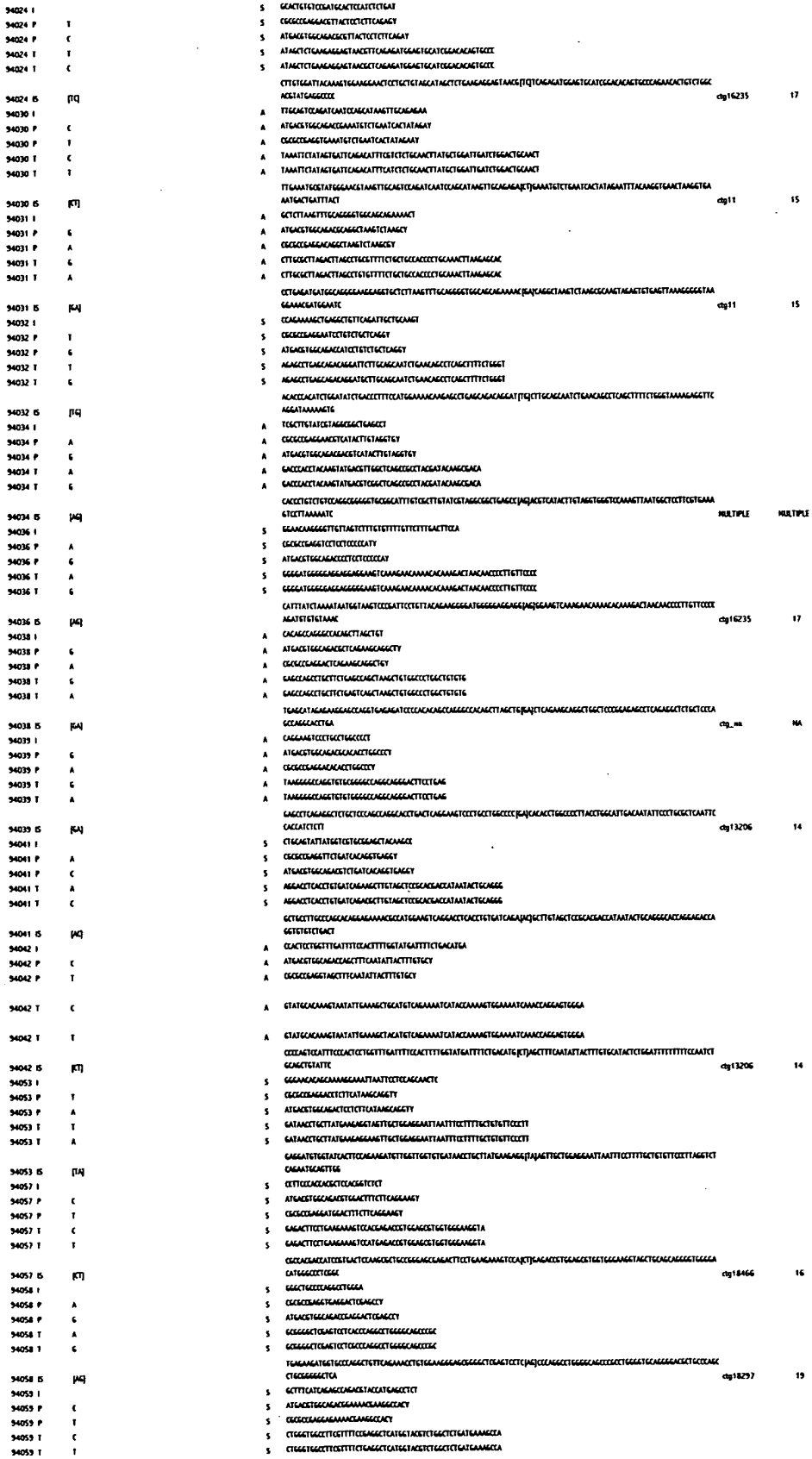


FIGURE 129C





Attorney Docket No. 10466-1

94059	IS	[CT]		TTATGTCTTCACAGTTCTGAGAAAAAGTACTGCTCTGGCACTGGGTGGCTTCGTTTTCJCTJGAGGCTCATGGTAGGTCTGGCTCTGATGAAAGCACACAGGGATCCT GAGACGTCTGGAT	ctg17286	19
94060	I		S	TCTCAGCCACTGCCTTTTATAAGGCACAGCCT		
94060	P	C	S	ATGACGTGGCAGACGGTGATTGAGTTCATGTGTY		
94060	P	T	S	CGCGCCGAGGAGTGATTGAGTTCATGTGTGY		
94060	T	C	S	ACCTCACACATGAACTCAATCACTGGCTGTGCTTATAAAAGGCAGTGGCTGAGACT		
94060	T	T	S	ACCTCACACATGAACTCAATCACTGGCTGTGCTTATAAAAGGCAGTGGCTGAGACT		
94060	IS	[CT]		GGGCTTGGGCTGCTCATCTATGTTCCTGATGTCCAGCACCTCACACATGAACTCAATCACJCTJGGCTGTGCCTTATAAAAGGCAGTGGCTGAGACTGTGGGGACAGGGTA AAGATAGCTCAGC	ctg_na	NA
94068	I		A	GGAGGGGAGAAGGAGAAAAATGGGGTAAAAAAAAAAAGGGAATT		
94068	P	A	A	CGCGCCGAGGACAGACATCCAACTAATCAATAAY		
94068	P	G	A	ATGACGTGGCAGACGCAGACATCCAACTAATCAY		
94068	T	A	A	GGCATTATTGATTAGTTGGATGTCTGTATTCCCTTTTTTTTTTTTACCCCATTTTTCTCCTTCTCCCCTCCCC		
94068	T	G	A	GGCATTATTGATTAGTTGGATGTCTGCATTCCCTTTTTTTTTTTTACCCCATTTTTCTCCTTCTCCCCTCCCC		
94068	IS	[AG]		AGACAAAGTAAGCTGGGCAGGGGCAGAAGCAGAAAAATGGGGTAAAAAAAAAAAGGGAATJAGGCAGACATCCAACTAATCAATAATGCCATAAAGTTTGTGGAAATT TGACCTTCAACTCACT	ctg15247	7
94073	I		A	CACCCCCTTCTCAAGGCAGCAGCAA		
94073	P	C	A	ATGACGTGGCAGACATCCTCAGACTTGTCAATTY		
94073	P	T	A	CGCGCCGAGGTATCCTCAGACTTGTCAATTTATY		
94073	T	C	A	TTTGATAAATTGACAAGTCTGAGGATGTGCTGCTGCCTTGAGAAGGGGGTGCT		
94073	T	T	A	TTTGATAAATTGACAAGTCTGAGGATATGCTGCTGCCTTGAGAAGGGGGTGCT		
94073	IS	[CT]		ATGCTGGCTCTGCCATCTGACTTTCCTGAGAGAGAGCACCCCCTTCTCAAGGCAGCAGCAJCTJATCCTCAGACTTGTCAATTTATCAAAAACTAGAGATTGGAGACAGGG AGACAGATAGGA	ctg16400	17
94075	I		A	GCTAGAGCTGAGGGGCGGGAAGT		
94075	P	A	A	CGCGCCGAGGACAGCCCTGCTCAGY		
94075	P	G	A	ATGACGTGGCAGACGCAGCCCTGCTCAY		
94075	T	A	A	AGCTCTGAGCAGGGCTGTCTTCCCGCCCCTCAGCTCTGGCCC		
94075	T	G	A	AGCTCTGAGCAGGGCTGCTTCCCGCCCTCAGCTCTGGCCC		
94075	IS	[AG]		GTGGTGATAGGAGCAGGTAAAGTGGTAAAGCAGGCCGGACAGAGCTGAGGGGCGGGAAGJAGJCAGCCCTGCTCAGAGCTTGGTGGGCAGGGGGAGGGGGAGCCAGC CCCACTGCTCCTCC	MULTIPLE	MULTIPLE
94076	I		A	CCCTCTGCAGCCTCACTTCCTGGCTT		
94076	P	A	A	CGCGCCGAGGATGACCTCCTCTGCTTTATCTY		
94076	P	G	A	ATGACGTGGCAGACGTGACCTCCTCTGCTTTATCY		
94076	T	A	A	GACAGATAAAGCAGAGAGGTCATAGCCAGGAAGTGAGGGTGCAGAGGGAA		
94076	T	G	A	GACAGATAAAGCAGAGAGGTCACAGCCAGGAAGTGAGGGTGCAGAGGGAA		
94076	IS	[AG]		ATGTATAAGCCTAGGGGGTCTCTCTCACCATAGCCTTCCCTCTGCACCCTCACTTCCTGGCTJAGJTGACCTCTCTGCTTTATCTTGTCCCTCCATACTCAGCTTTCATCAGGAA GGGAGCACAGT	ctg13103	9
94077	I		S	TCCTGCCTGTGTTTCTGAGCCCCAT		
94077	P	G	S	CGCGCCGAGGCTAGGGATCCCCCATTCY		
94077	P	C	S	ATGACGTGGCAGACGTAGGGATCCCCCATTY		
94077	T	G	S	GAGGGAATGGGGGCATCCCTAGTGGGGGCTCAGAAACACAGGCAGGACA		
94077	T	C	S	GAGGGAATGGGGGCATCCCTACTGGGGGCTCAGAAACACAGGCAGGACA		
94077	IS	[GC]		AGGAACCCCGCTGAGAGAGGGCAGACAAGCGGTCAAACCGAGGGAATGGGGGATCCCTAJGCJTGGGGGCTCAGAAACACAGGCAGGACAGCCCCCACTGAGAAGGTCA CCAGGATTGTGCCC	ctg16820	16
94079	I		A	CTGTCAGGTCAGAGGGGGGTCCAT		
94079	P	G	A	ATGACGTGGCAGACGCTTTAAGACATGTTTTAACCY		
94079	P	C	A	CGCGCCGAGGCCTTTAAGACCATGTTTTAACCY		
94079	T	G	A	TTAGGGTTAAAACATGGTCTTAAAGCTGGACGCCCCCTCTGACCTGACAGCT		
94079	T	C	A	TTAGGGTTAAAACATGGTCTTAAAGGTGGACGCCCCCTCTGACCTGACAGCT		
94079	IS	[GC]		GTGACTACTGGGCGCGGGAGTCCTCAGCACTTGAAGCTGTCAGGTCAGAGGGGGCGTCCAJGCJCTTTAAGACCATGTTTTAACCCTAATGAATGAAGGCACAAGCAGCCC CTGAAACTCGTGT	ctg13206	14
94080	I		S	CTAGAGTAGAATGCCAGCAGCTTGGAGTGCACT		
94080	P	C	S	ATGACGTGGCAGACAGCAGCAGGAAGGCATGY		
94080	P	T	S	CGCGCCGAGCAAGCAGCAAGGCATGY		
94080	T	C	S	CCTGCATGCCTTCCTGCTCGTGCACTCCAAGCTGCTGGCATTCTACTCTAGGT		
94080	T	T	S	CCTGCATGCCTTCCTGCTTGTGCACTCCAAGCTGCTGGCATTCTACTCTAGGT		
94080	IS	[CT]		CCAGCTGTCAACACAGCCCCCAGCGGGCAGGCCAGCAGGCCCTGCATGCCTTCCTGCTJGTGCACTCCAAGCTGCTGGCATTCTACTCTAGGTGAGCTCAAGGTCTG GCATGTGGTGGC	ctg5212	19
94081	I		S	AGGGGGAGCCTGCCCACCATCTA		
94081	P	A	S	CGCGCCGAGGTCAGGCAGGTTTCTGAY		
94081	P	G	S	ATGACGTGGCAGACCCAGGCAGGTTTCTGY		
94081	T	A	S	TAGTTCAGAAAACCTGCCTGAAGATGGTGGGCAGGCTCCCCCTGG		
94081	T	G	S	TAGTTCAGAAAACCTGCCTGGAGATGGTGGGCAGGCTCCCCCTGG		
94081	IS	[AG]		TCAGGGCAGCTTTCTGGGCAGAGGGAGGCCATTAGGGAGGTAGTTCAGAAAACCTGCCTGJAGJAGATGGTGGGCAGGCTCCCCCTGGGGACTCCATGTTTTCTAAGTCA CAATCTCGGGTGTG	ctg14583	1
94082	I		A	GTCCCTAGCTCCTGGCTTGTAAGCACCTTT		
94082	P	A	A	CGCGCCGAGGAACTCAGACCTTCACCTACY		
94082	P	G	A	ATGACGTGGCAGACAACTCAGACCTTCACCTAY		
94082	T	A	A	CTAGGTAGGTGAAGGTCTGAGTTAAGGTGCTTACAAGCCAGGAGCTAGGGACGG		
94082	T	G	A	CTAGGTAGGTGAAGGTCTGAGTCAAGGTGCTTACAAGCCAGGAGCTAGGGACGG		
94082	IS	[AG]		CACAGCTAGAAGCCCAGGACACAGAGCAGGCCCTCCCTAGCTCCTGGCTTGTAAGCACCTTJAGJACTCAGACCTTCACCTACCTAGAAGACTTCCCAGGCTTGGTGCACTTC ATCTATGTGGAC	ctg16820	16
94083	I		A	AGAAGGGCTACACCACGCTGCTGTTCCT		
94083	P	A	A	CGCGCCGAGGAGAGGAGGGGGATTTCTACY		
94083	P	G	A	ATGACGTGGCAGACGGGAGGGGGATTTCTACY		
94083	T	A	A	AGCAGTAGAAATCCCCCTCCTGGAACAGCAGCGTGGTGTAGCCCTTCTGC		
94083	T	G	A	AGCAGTAGAAATCCCCCTCCCGGAACAGCAGCGTGGTGTAGCCCTTCTGC		
94083	IS	[AG]		GGTCTCTGATCCAGCTGGCGGCGCACATACTGCAGAAGGGCTACACCACGCTGCTGTTCCJAGJGCAGGGGGAATTTCTACTGCTCCTACTTCCTGTGGTTCGAGAATGACA TGGTAGGTGAGGC	ctg18743	16
94084	I		S	CAGCACAGCATCCCTGGTCCTGCAAAGT		
94084	P	C	S	ATGACGTGGCAGACGCTTAAAACAGAGAGAATATGAGY		
94084	P	T	S	CGCGCCGAGGACTTAAAACAGAGAGAATATGAGGY		
94084	T	C	S	CTGCCTCATATTCTCTCTGTTTTAAGCATTTGCAGGACACAGGGATGCTGTGCTGCT		
94084	T	T	S	CTGCCTCATATTCTCTCTGTTTTAAGTATTTGCAGGACACAGGGATGCTGTGCTGCT		
94084	IS	[CT]		TCAACGGCCACAGTCAAGACCAGGGCATCTGCCTGCCCTCATATTCTCTCTGTTTTAAGJCTJATTTGCAGGACCAGGGATGCTGTGCTGCTCTCCCATGAGCCAGTCACC GAGTCGAGTCTGC		
94085	I		A	AGCCAGTCACCGAGTCGGTCTGCTGT		
94085	P	A	A	CGCGCCGAGGAAGCCTTTCTGAACCTY		
94085	P	C	A	ATGACGTGGCAGACAGCCTTTCTGAACCY		
94085	T	A	A	CCAGAGGTTCAGAAAGGGCTGCAGCAGACCGACTCGGTGACTGGCTCA		
94085	T	C	A	CCAGAGGTTCAGAAAGGGCTGCAGCAGACCGACTCGGTGACTGGCTCA		
94085	IS	[AC]		TTGCAGCACCAGGGATGCTGTGCTGCTCTCCCATGAGCCAGTCACCGAGTCGGTCTGCTGJACJAGCCCTTTCTGAACCTCTGGCGGTCTGGATGCTCCACTGTGCTTGCCA AGCTAGATGATC	MULTIPLE	MULTIPLE
94086	I		S	CCTCCAGTAGTAACCAGCAGCAGGGGTT		
94086	P	C	S	ATGACGTGGCAGACGGGACCCCACTGACY		
94086	P	T	S	CGCGCCGAGGAGGACCCCACTGACAY		
94086	T	C	S	TCAGTGTCAGTGGGGTCCCACCCCTGCTGCTGGTTACTACTGGAGGCA		

FIGURE 129C

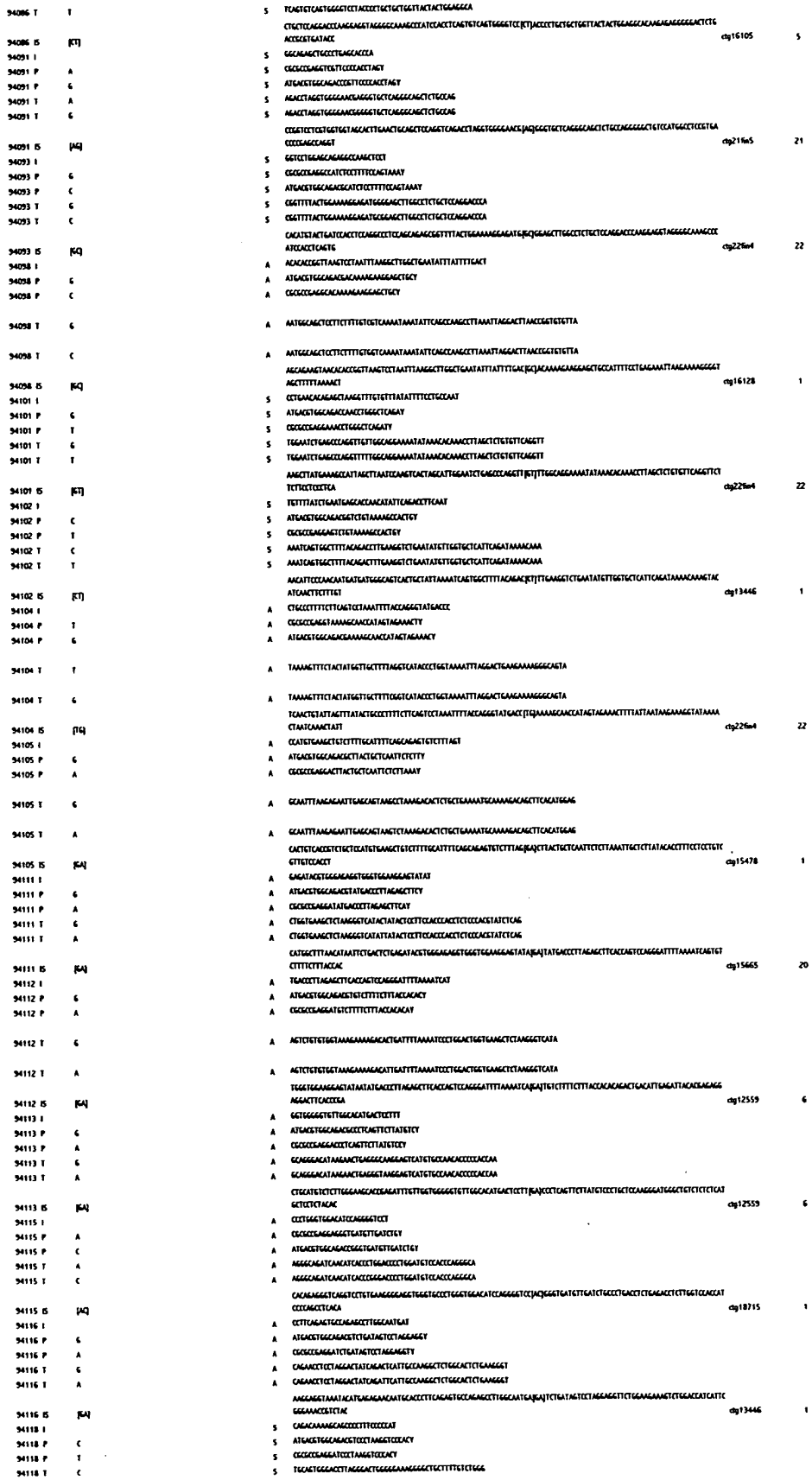


FIGURE 129C

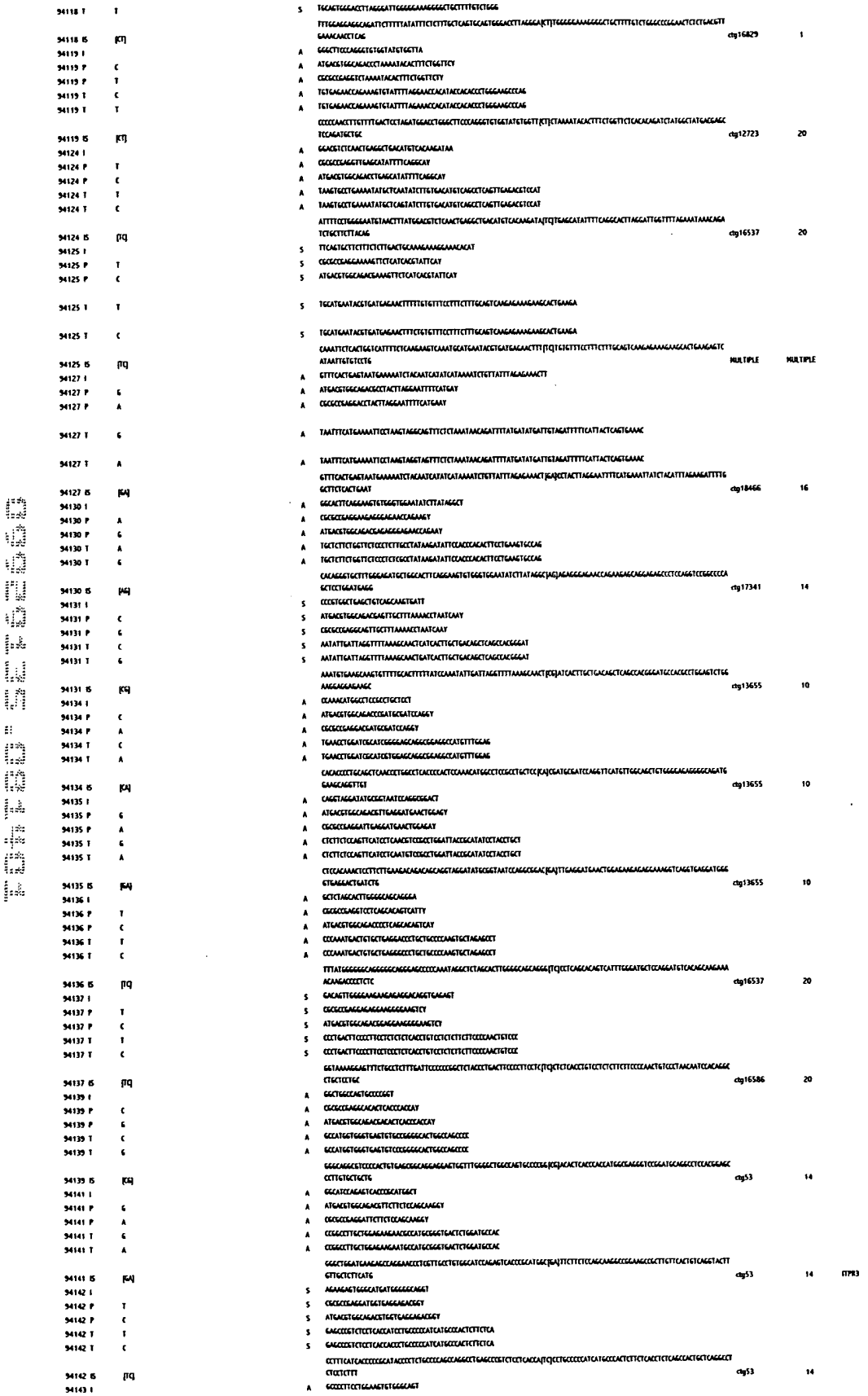
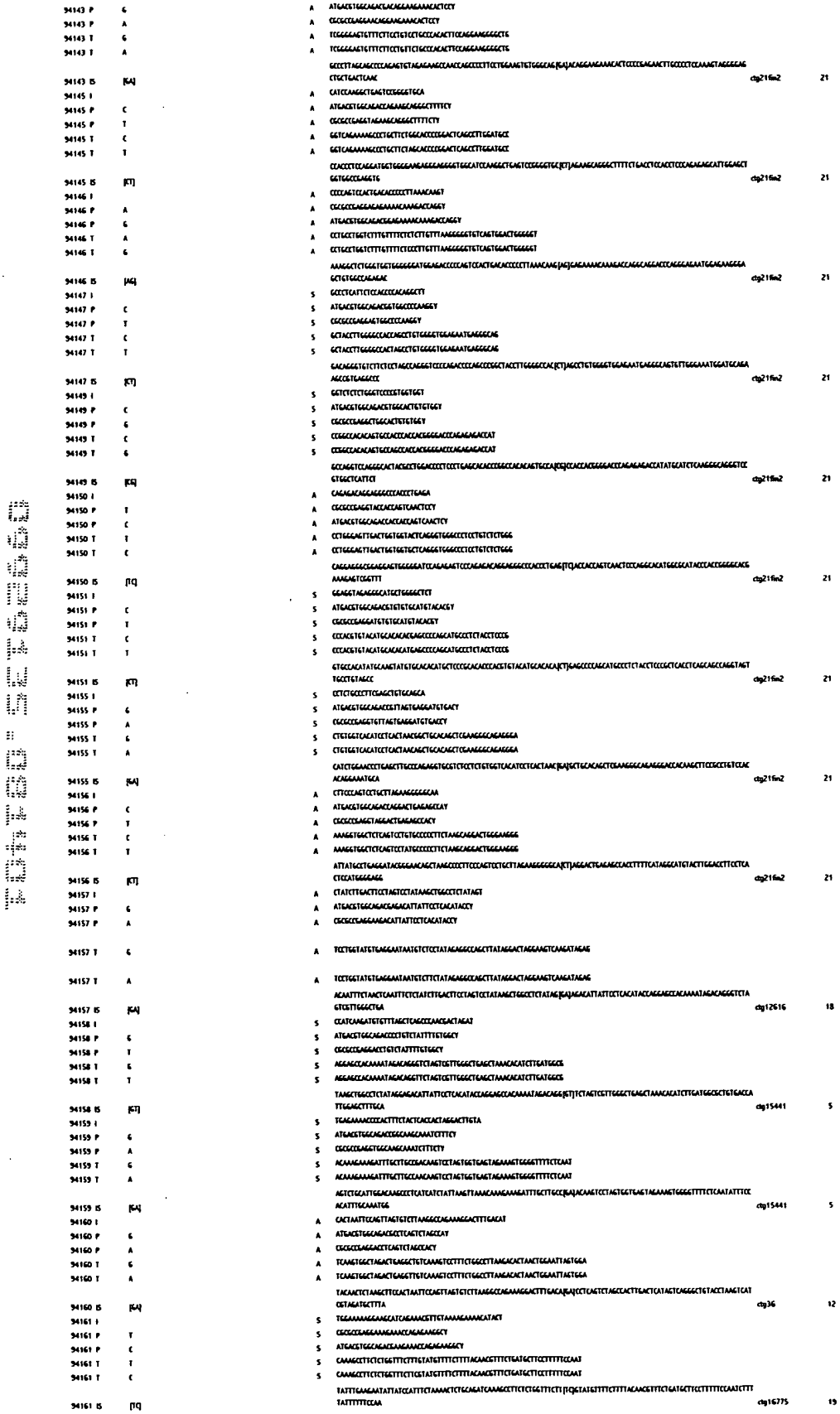


FIGURE 129C



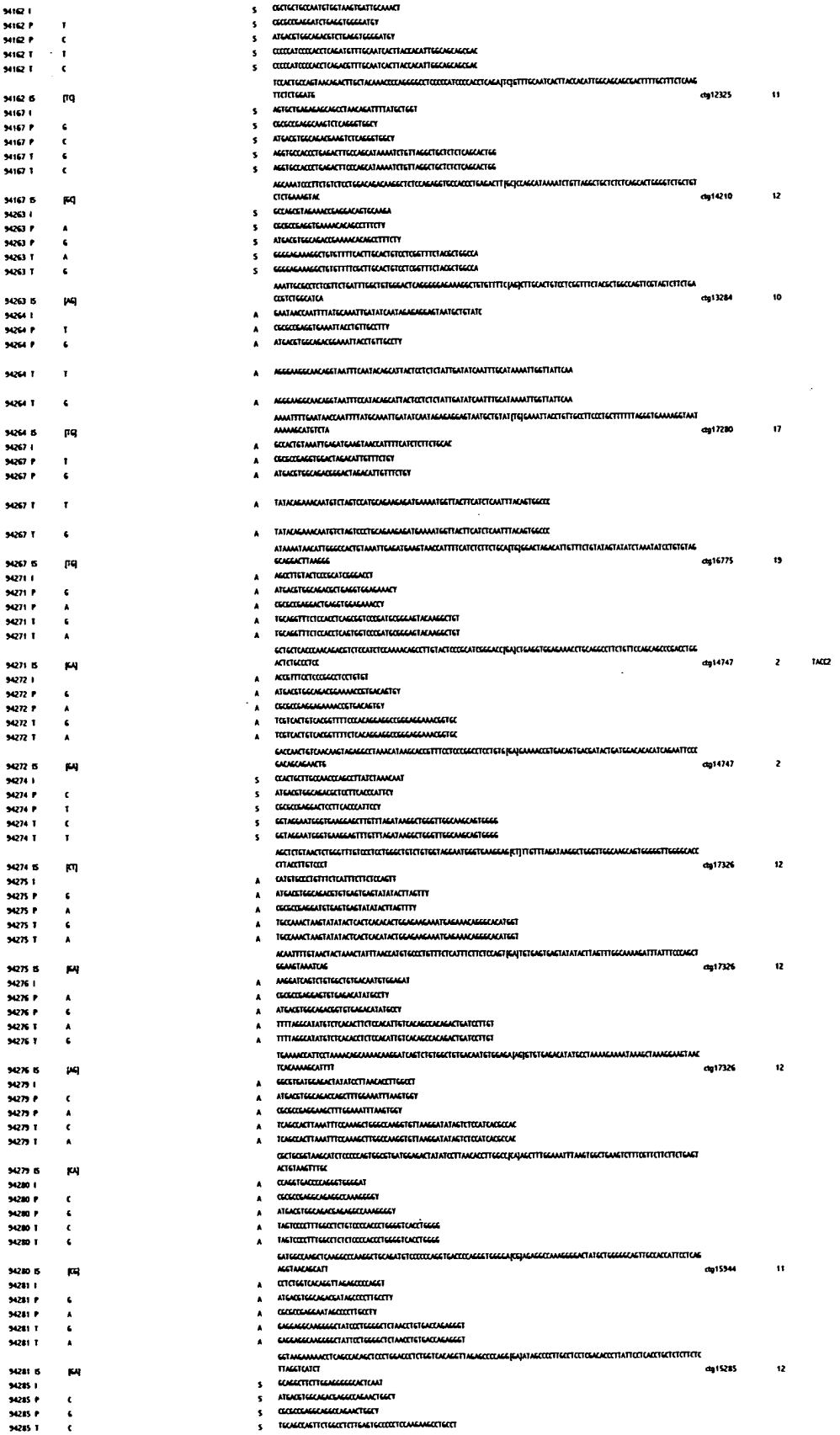
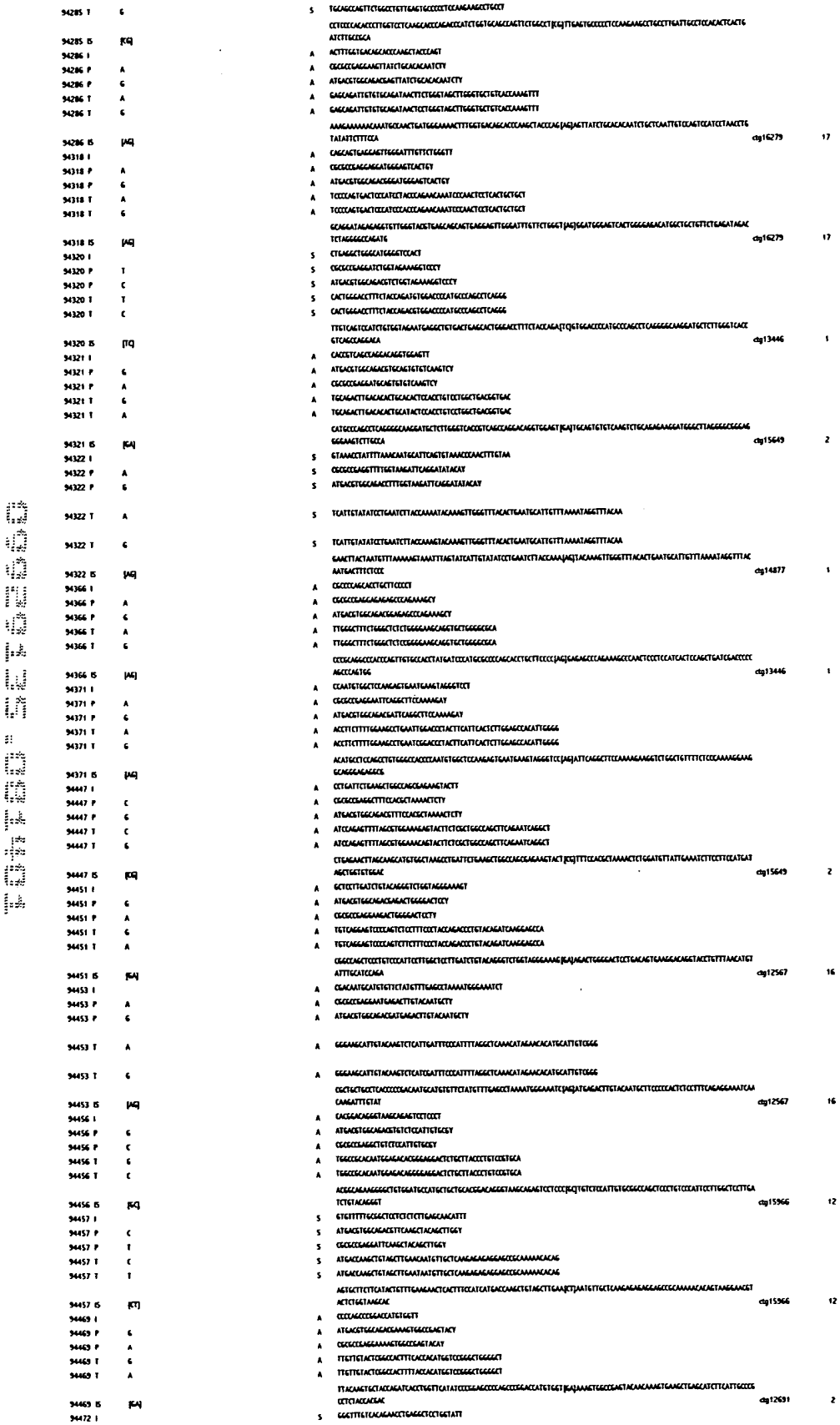
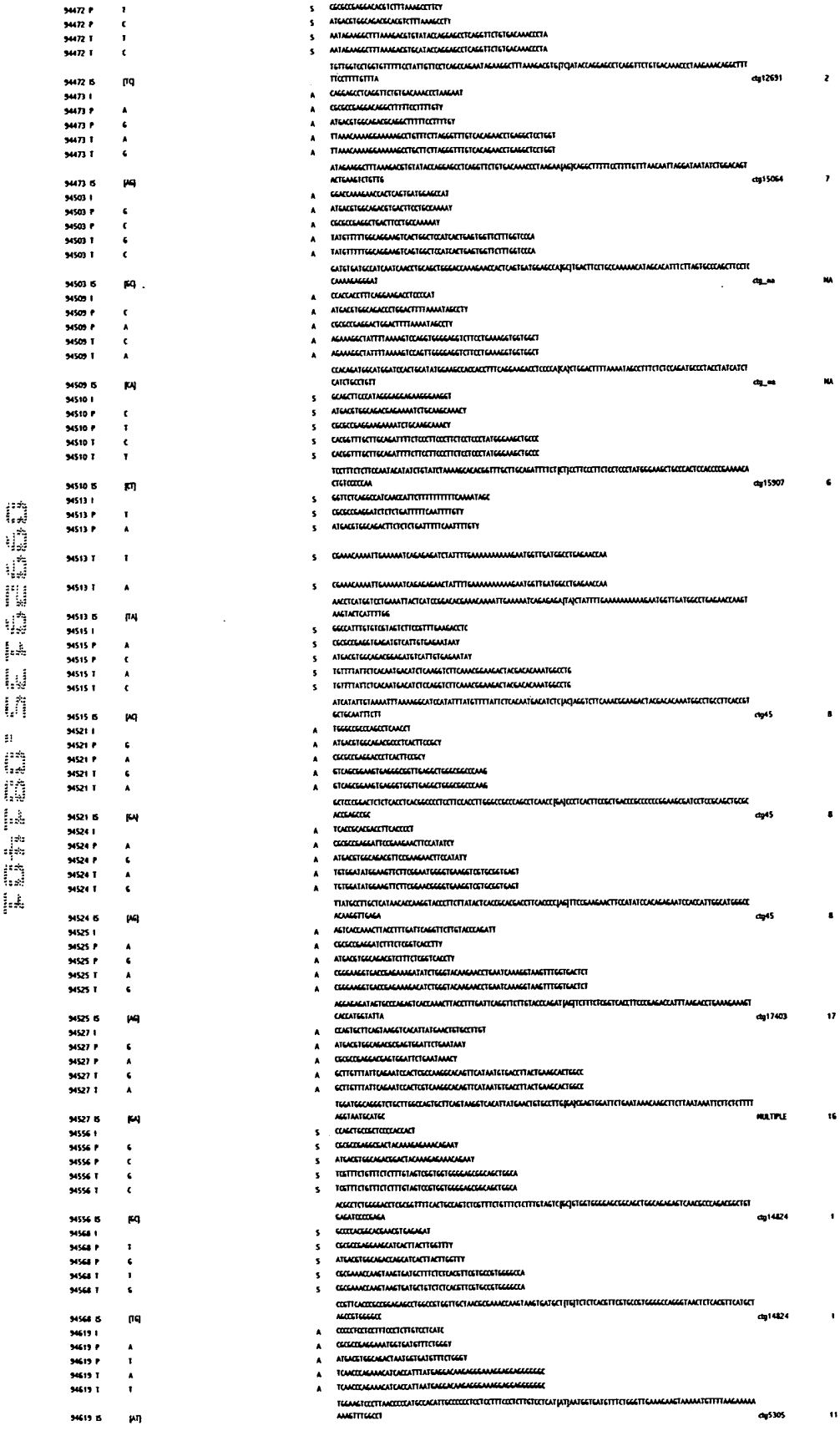
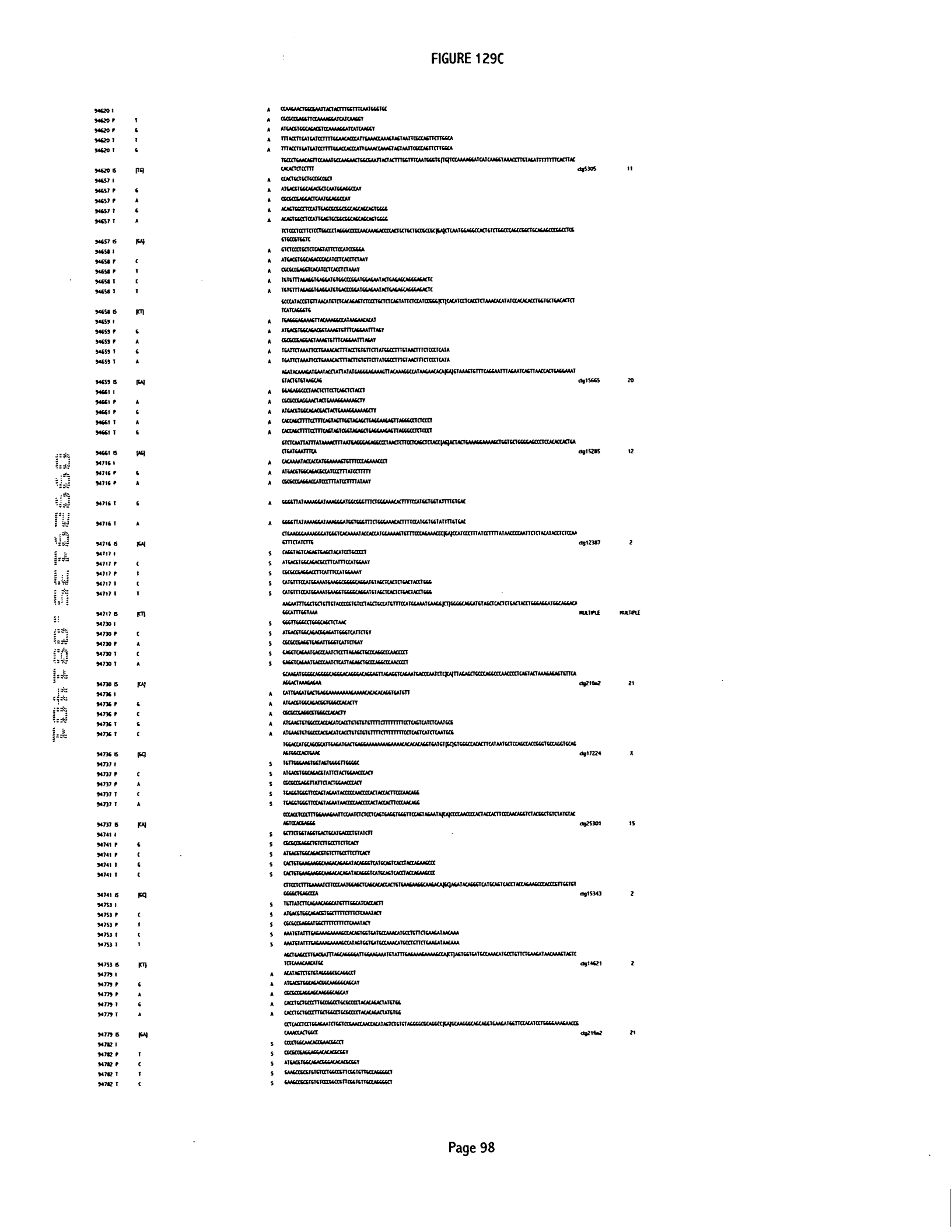


FIGURE 129C







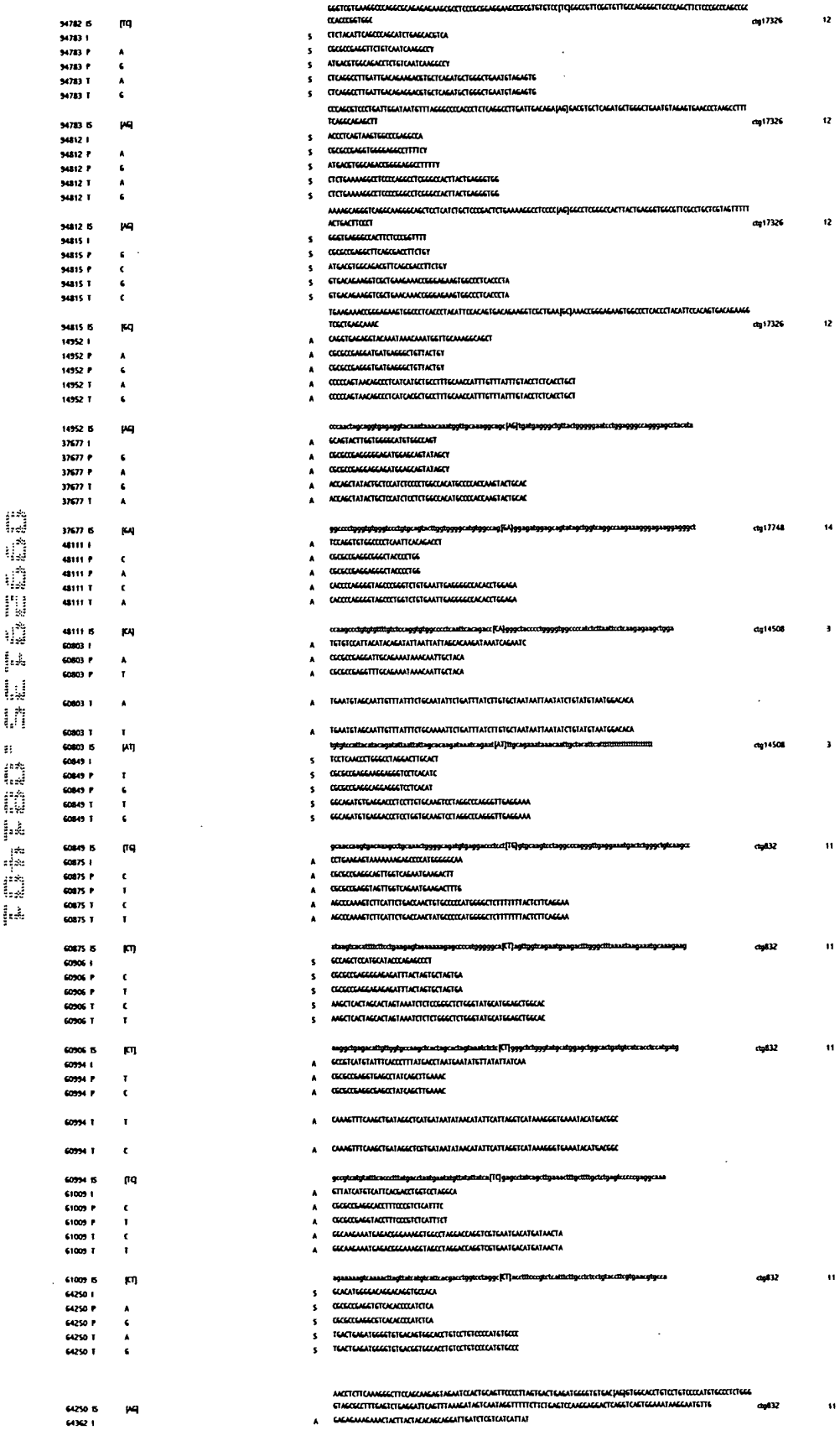
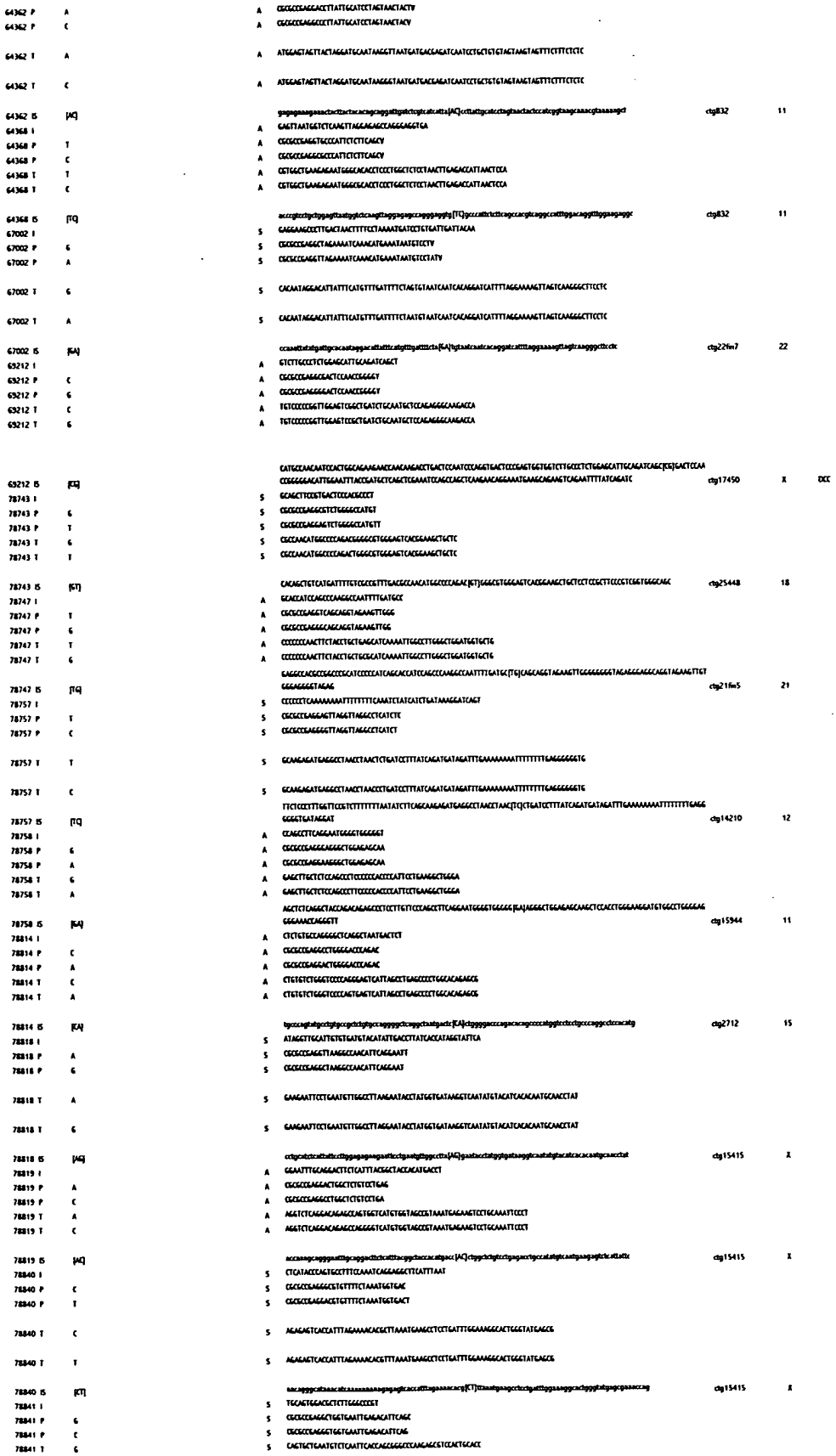
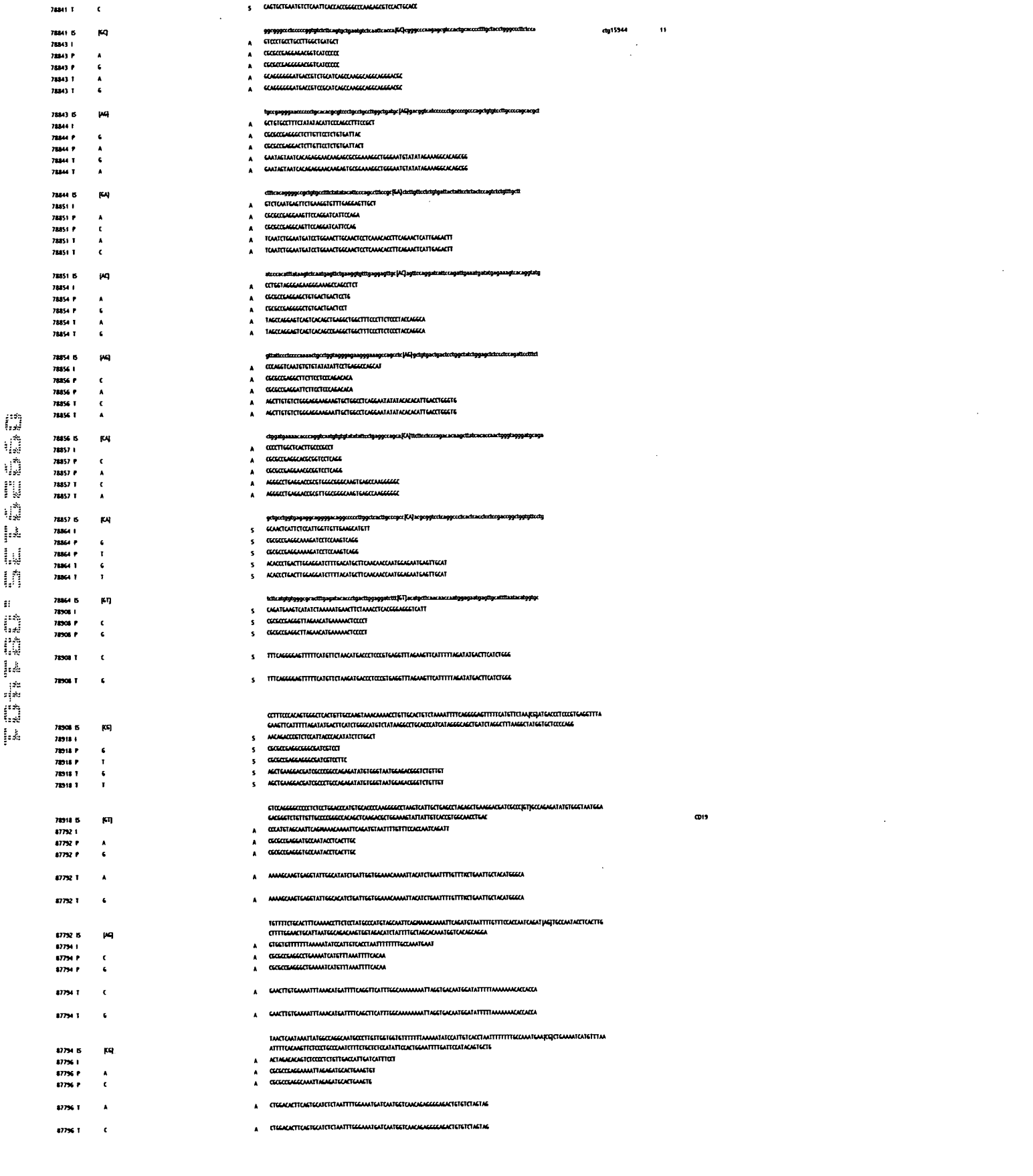
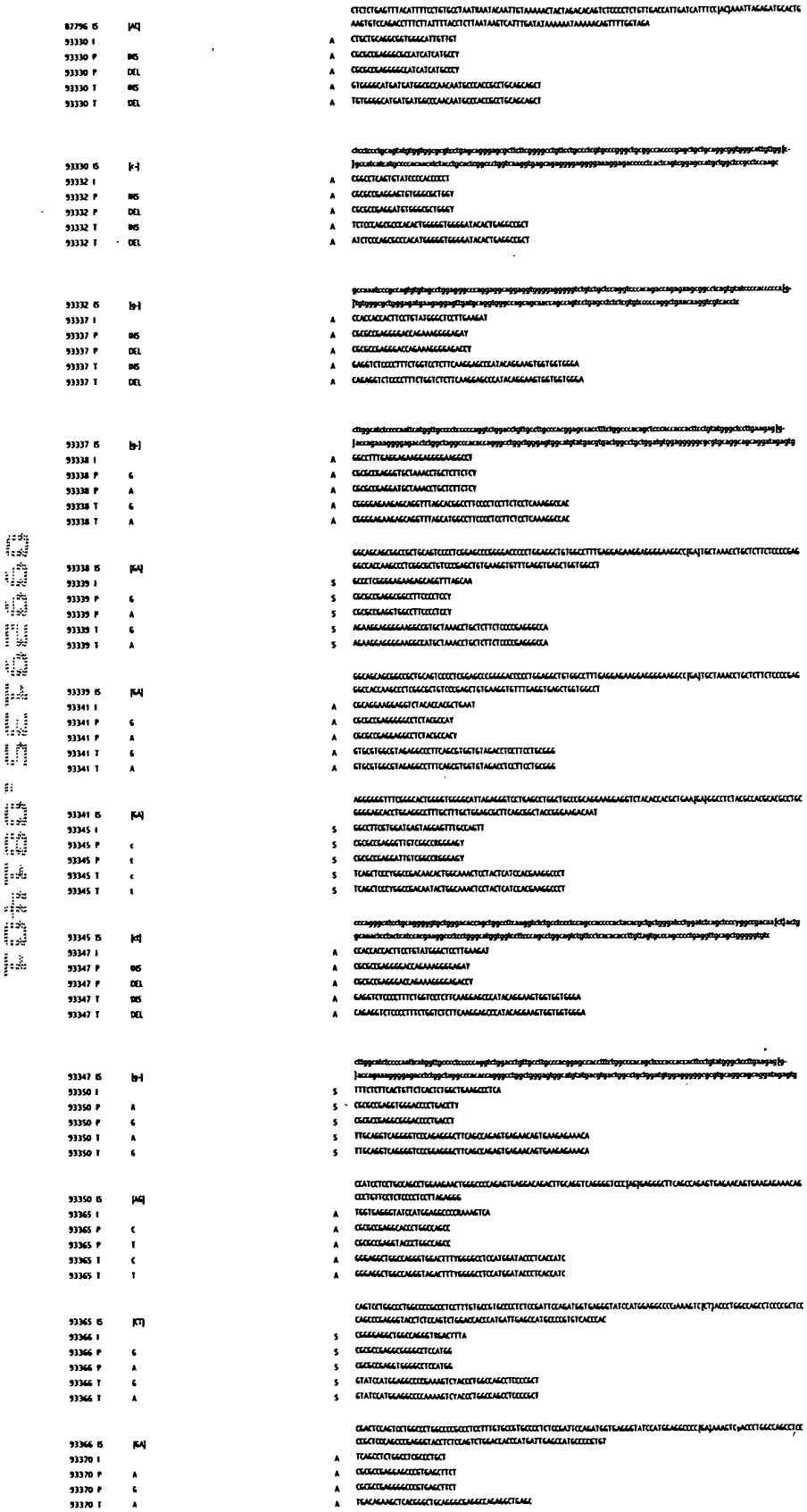
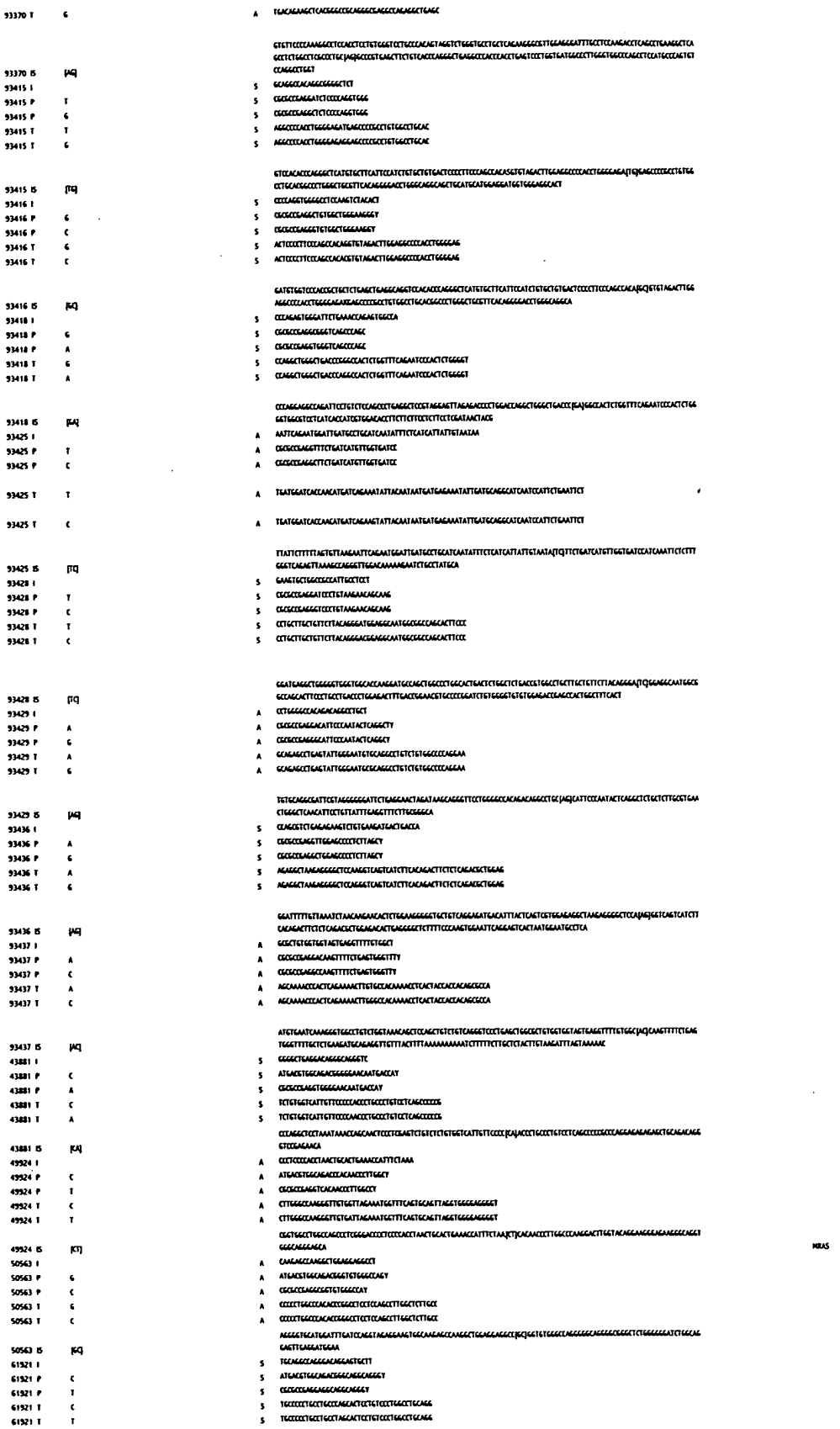


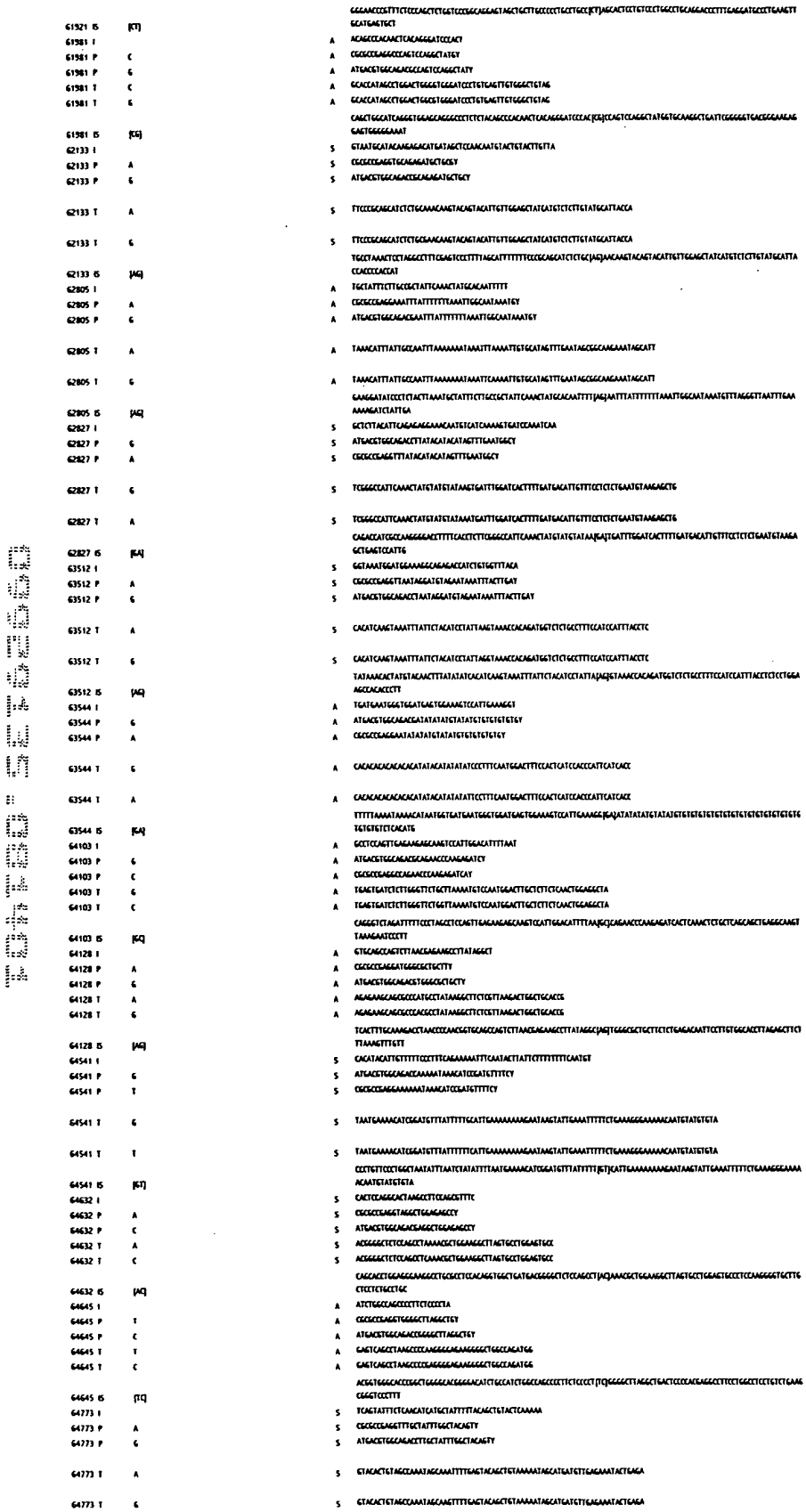
FIGURE 129C

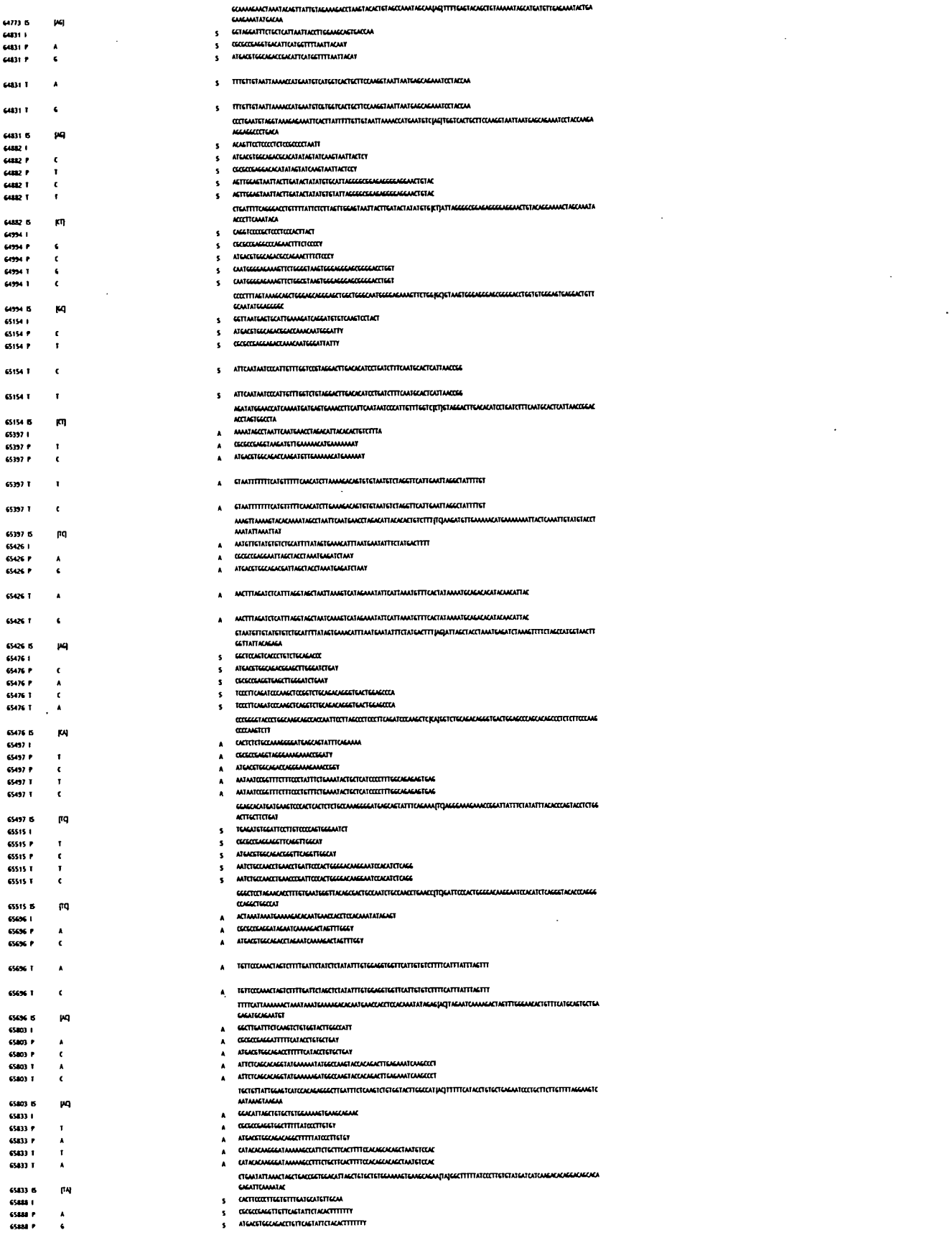


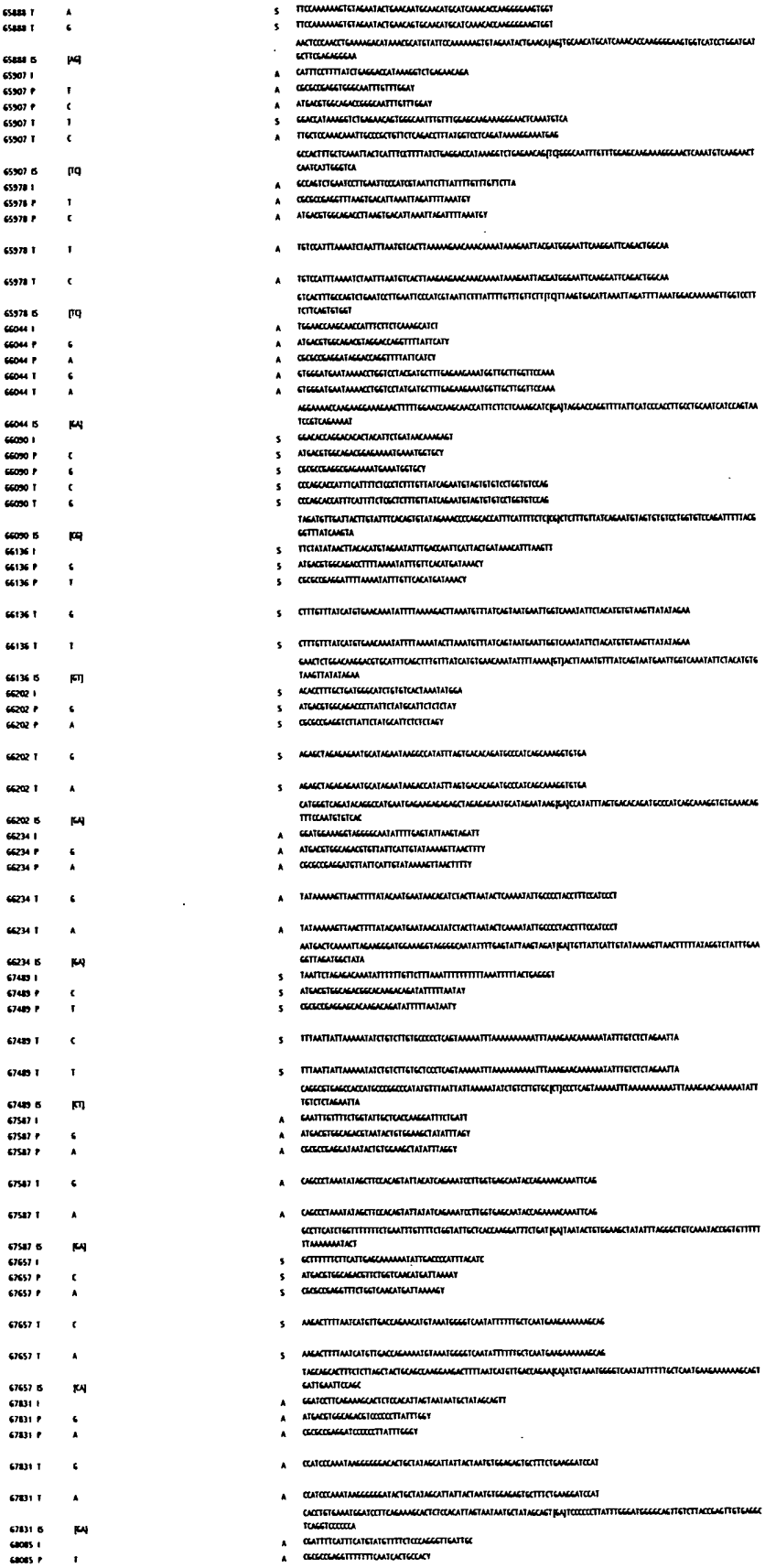












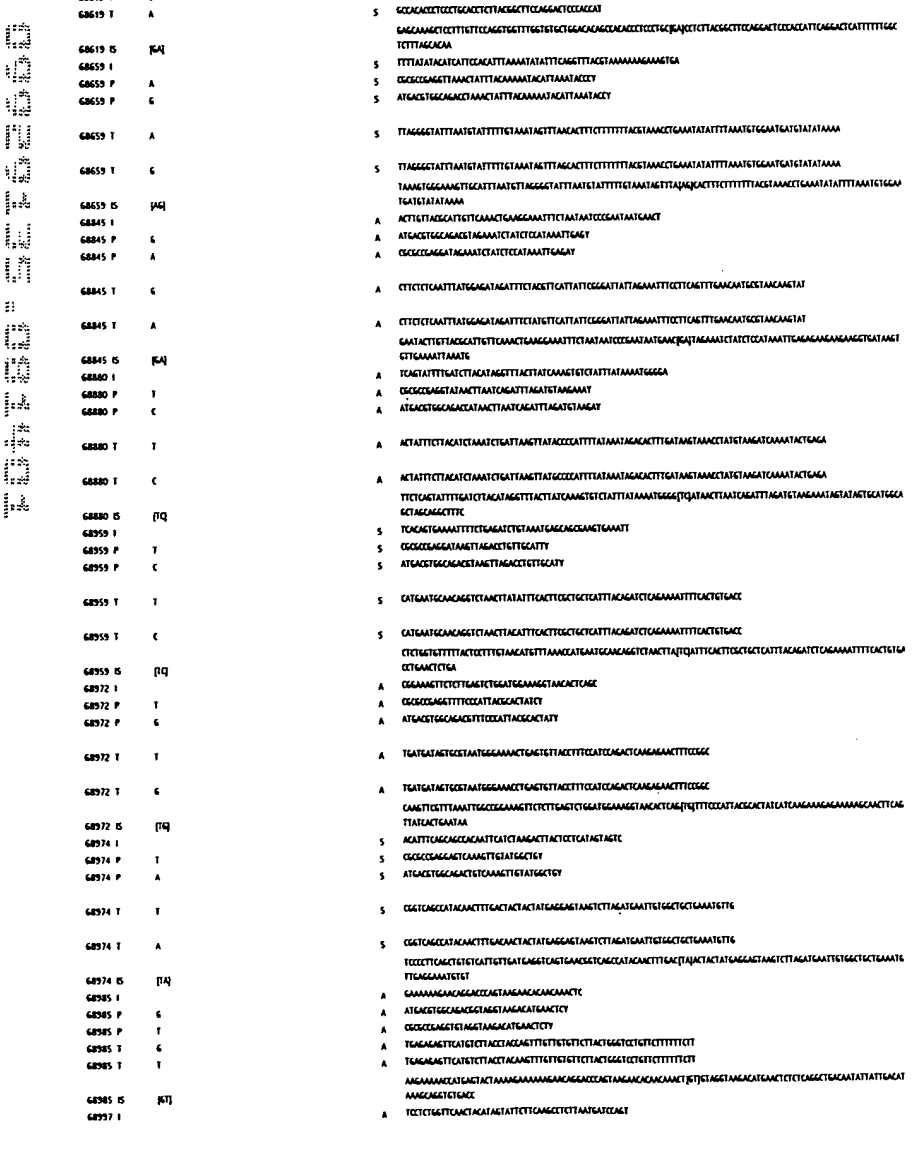
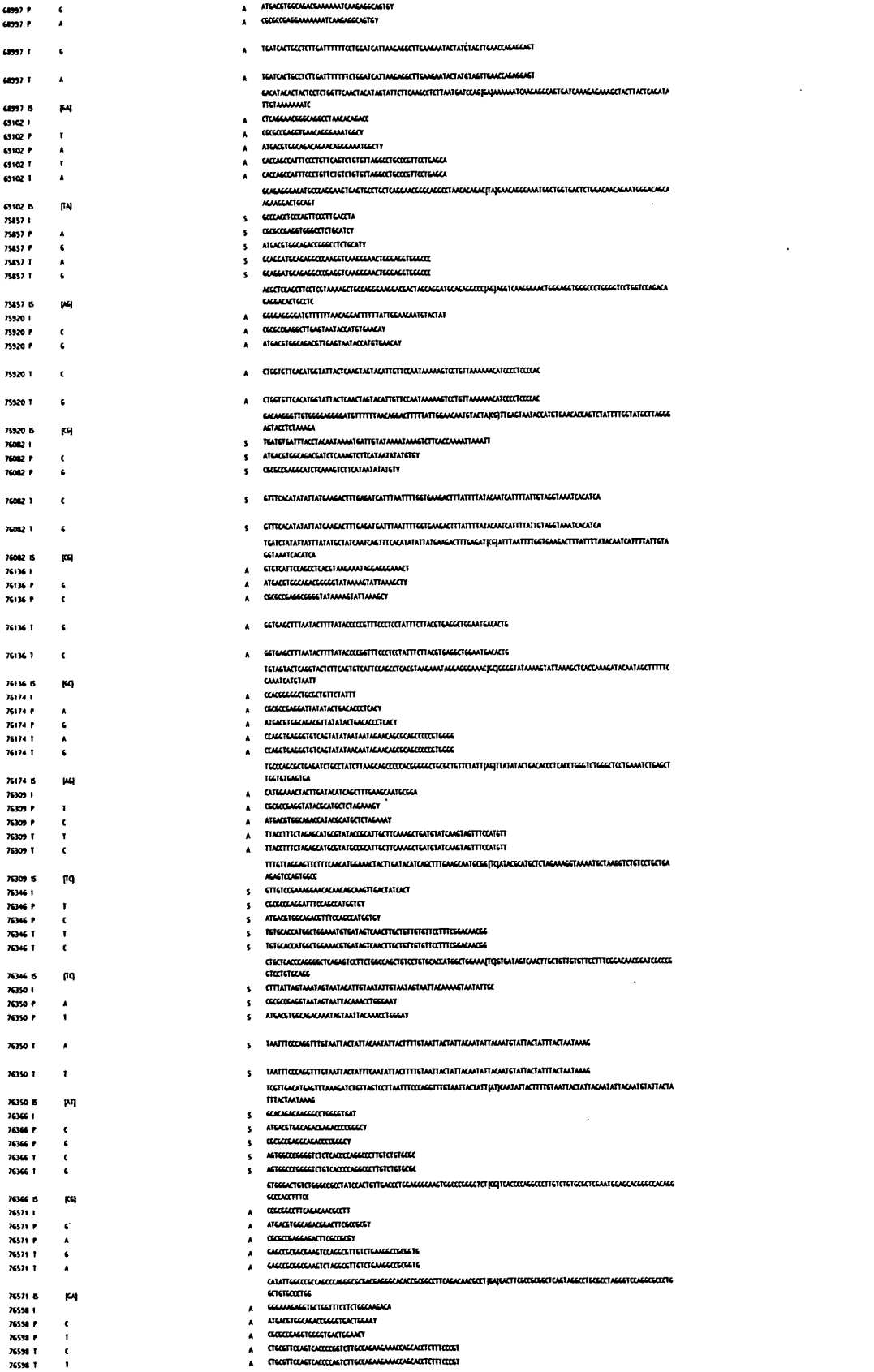
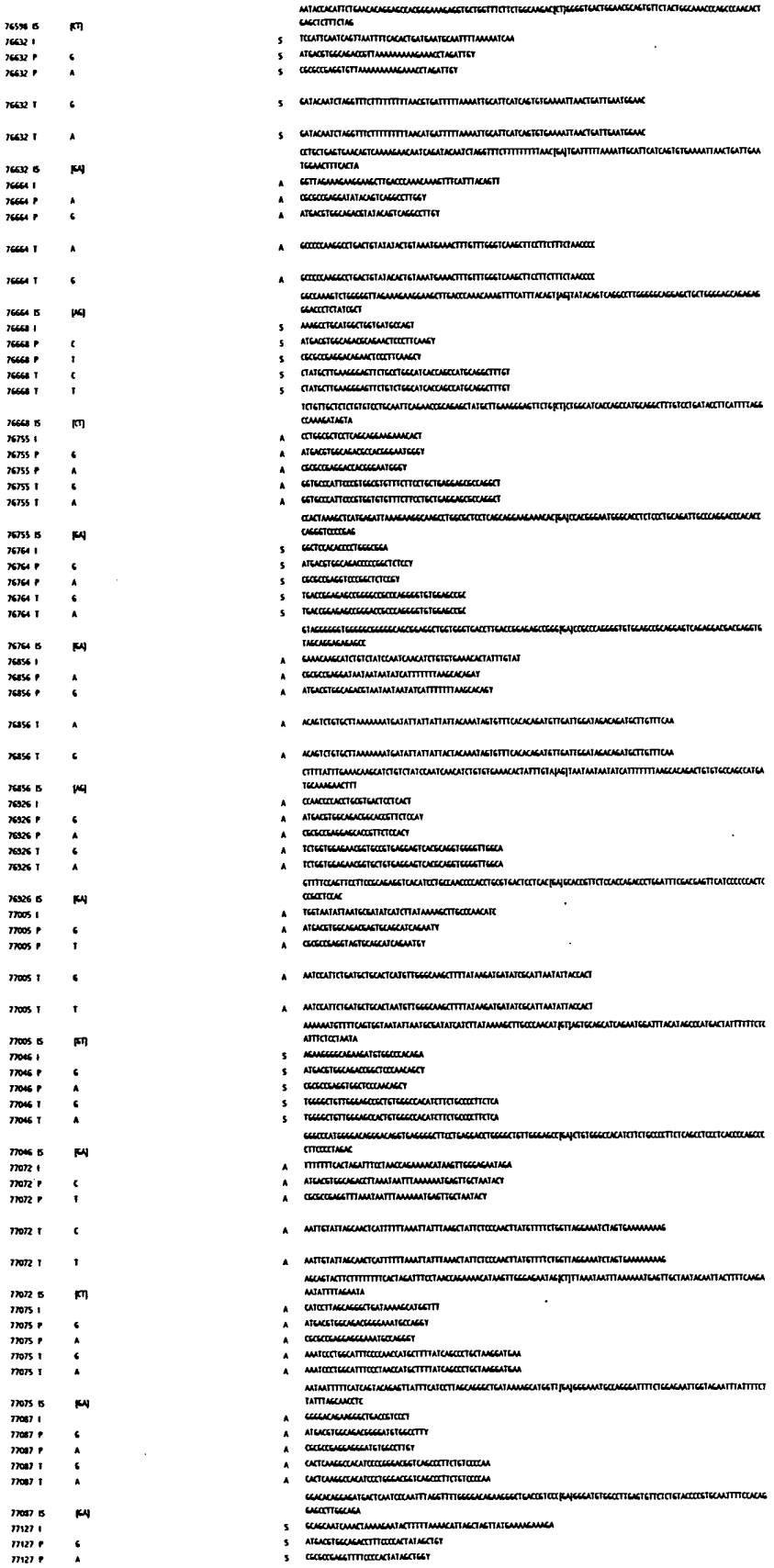
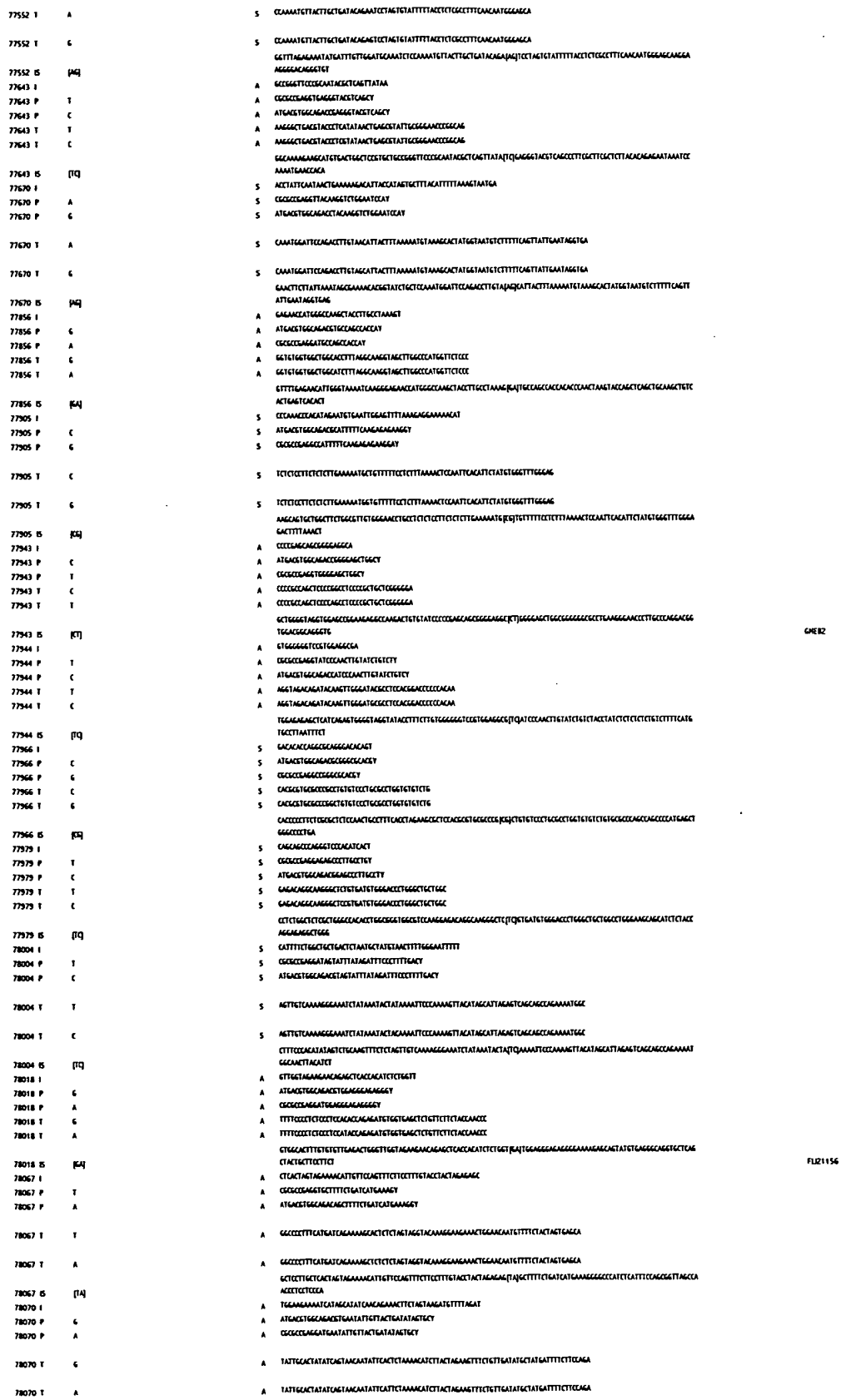


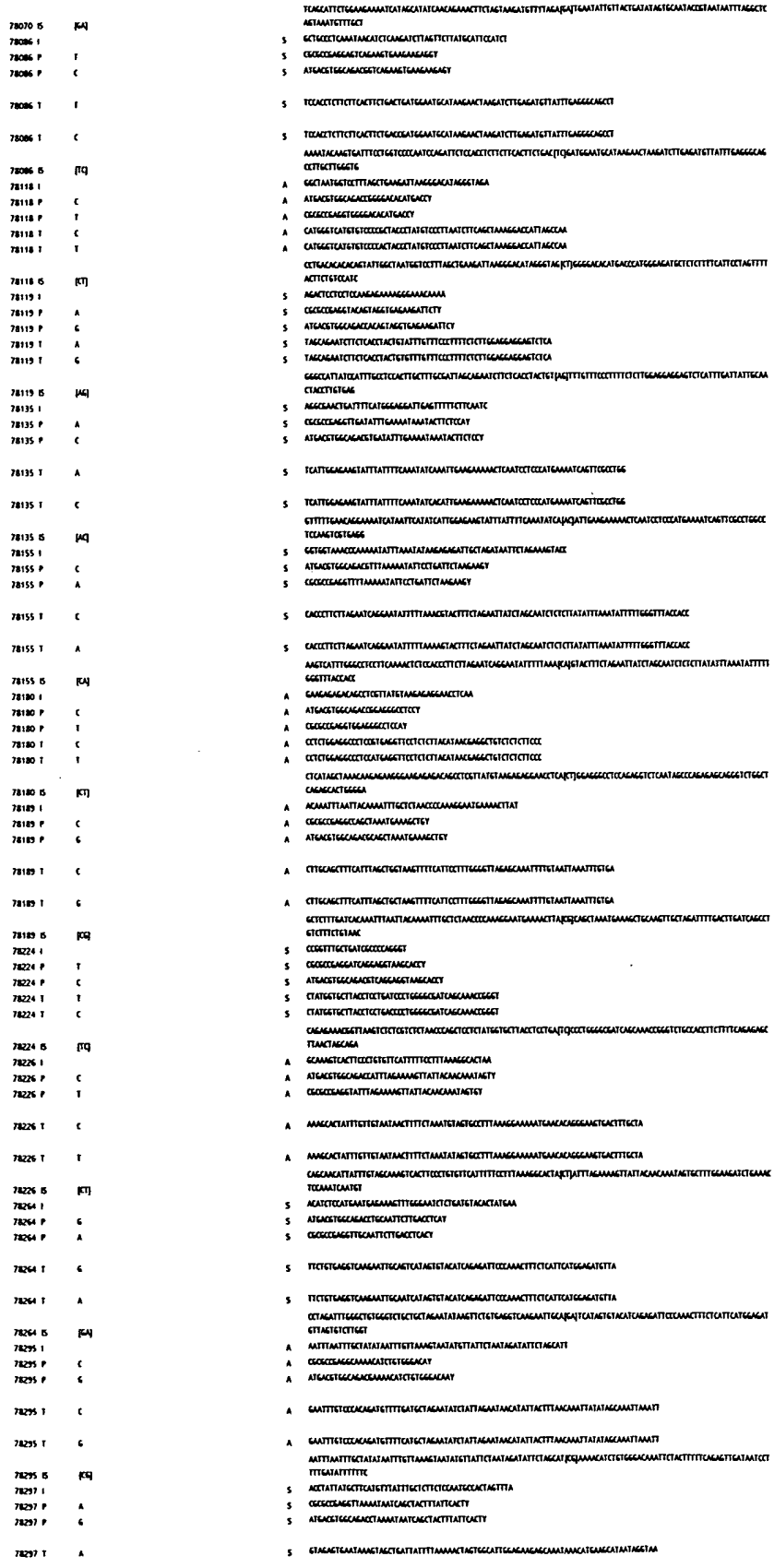
FIGURE 129C

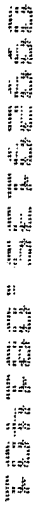












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78297 IS  (AG)     GGTAACCATTGGAAT
78305 I           S  TCACCTTAAACGATGACCTTTCCTTTAAGGAAAAGGAAAC
78305 P   A       S  CGCGCCGAGGTTAACATTTTCTGAACTCAAGCY
78305 P   C       S  ATGACGTGGCAGACGTAACATTTTCTGAACTCAAGCY

78305 T   A       S  ACTTGCTTGAGTTCAGAAAATGTTAATTTCCTTTTCCTTAAAGGAAAGGTCATCGTTTAAGGTCATC

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78305 IS  (AC)     ATTCATGGGAACA
78460 I           S  CTACAAAAACTTTACCATTACCTCAGTTTCTATTATTAGGTGATTTTAAGTTTTTACAT
78460 P   T       S  CGCGCCGAGGACTGCTTTTTTGGGCTTY
78460 P   C       S  ATGACGTGGCAGACGCTGCTTTTTTGGGCTY

78460 T   T       S  AAATAAGCCCAAAAAAGCAGTTGTAAAAACTTAAAATCACCTAATAATAGAAACTGAGGTAATGGTAAAGTTTTTGTAGCA

78460 T   C       S  AAATAAGCCCAAAAAAGCAGCTGTAAAAACTTAAAATCACCTAATAATAGAAACTGAGGTAATGGTAAAGTTTTTGTAGCA
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78460 IS  (TC)     AAAGTTTTTGTAGCA
78483 I           A  CCTATTGCTGTAGTAAAACACCTACTCATCTGCCTCAGTCAACA
78483 P   C       A  ATGACGTGGCAGACCCCTGAGCAAGTCTCAY
78483 P   T       A  CGCGCCGAGGTCCTGAGCAAGTCTCATY
78483 T   C       A  TTTCATGAGACTTGCTCAGGGGTTGACTGAGGCAGATGAGTAGGTGTTTTACTACAGCAATAGGAA
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78483 IS  (CT)     TAAAAGTTAACA
78492 I           S  CATTGCTGCTTCTAGTCAAAACTGGCTTTAACAAGGCTTTT
78492 P   T       S  CGCGCCGAGGATGTCCCTTTGACTCTATAGAY
78492 P   C       S  ATGACGTGGCAGACGTGTCCCTTTGACTCTATAGY

78492 T   T       S  CACATCTATAGAGTCAAAGGGACATAAAGCCTTGTTAAAGCCAGTTTTGACTAGAAGCAGCAATGAG

78492 T   C       S  CACATCTATAGAGTCAAAGGGACACAAAGCCTTGTTAAAGCCAGTTTTGACTAGAAGCAGCAATGAG
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78492 IS  (TC)     TCCTGTTTGATCT
78547 I           S  CTCGGTGGGGAGATGGCCAGAAGGAT
78547 P   C       S  ATGACGTGGCAGACGGAGGGGGAAGCAGY
78547 P   G       S  CGCGCCGAGGCAGAGGGGGAAGCAGY
78547 T   C       S  TCGTCTGCTTCCCCCTCCTCCTTCTCGCCATCTCCCCACCGAGCA
78547 T   G       S  TCGTCTGCTTCCCCCTCGTCCTTCTCGCCATCTCCCCACCGAGCA
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78547 IS  (CG)     TGGCGGCCATT
78585 I           A  TGCCCAAACTACTGATTTGAAATGCTCAAAATGCATTCTCTTCATA
78585 P   T       A  CGCGCCGAGGTTGTCTTCCCCCAATAGAY
78585 P   C       A  ATGACGTGGCAGACCTGTCTTCCCCCAATAGAY

78585 T   T       A  ATGCTCTATTGGGGGAAGACAAATGAAGAGAATGCATTTTGAGCATTTCAAATCAGTAGTTTGGGCAGT

78585 T   C       A  ATGCTCTATTGGGGGAAGACAGATGAAGAGAATGCATTTTGAGCATTTCAAATCAGTAGTTTGGGCAGT
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78585 IS  (TC)     TTATACAAAAGG                                                                                                    GNA13
78592 I           S  CACTTGCTTTATTCTCAACCACGCTGGATCTATCTGGATATGTAC
78592 P   T       S  CGCGCCCAGGAAAAGTAATTATACATGACGACTTTY
78592 P   A       S  ATGACGTGGCAGACTAAAGTAATTATACATGACGACTTTGY

78592 T   T       S  CACCCAAAGTCGTCATGTATAATTACTTTTTATACATATCCAGATAGATCCAGCGTGGTTCAGAATAAAGCAAGTGAG

78592 T   A       S  CACCCAAAGTCGTCATGTATAATTACTTTATATACATATCCAGATAGATCCAGCGTGGTTCAGAATAAAGCAAGTGAG
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78592 IS  (TA)     GGTATCAAGCTCTT
78593 I           S  GTGTCTTTTCAAAACTACACACACCTACATCCTGCCAAGAC
78593 P   A       S  CGCGCCCAGGTTATATTACTTGCCCAATCTGTY
78593 P   T       S  ATGACGTGGCAGACATATATTACTTGCCCAATCTGTY

78593 T   A       S  TTGGACAGATTGGGCAAGTAATATAATCTTGGCAGGATGTAGGTGTGTGTAGTTTTGAAAAGACACTG

78593 T   T       S  TTGGACAGATTGGGCAAGTAATATATTCTTGGCAGGATGTAGGTGTGTGTAGTTTTGAAAAGACACTG
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78593 IS  (AT)     GTCACGAATGTGGTCT
78614 I           S  GAACTGCAAGTTAATTTCCAGTTGACAGCCAGTTGCTC
78614 P   A       S  CGCGCCGAGGTGTGGAGCTCTGGAGY
78614 P   C       S  ATGACGTGGCAGACGGTGGAGCTCTGGAGY
78614 T   A       S  CATCCTCCAGAGCTCCACAAGCAACTGGCTGTCAACTGGAAATTAACTTGCAGTTCTG
78614 T   C       S  CATCCTCCAGAGCTCCACAGCAACTGGCTGTCAACTGGAAATTAACTTGCAGTTCTG
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78619 I           A  GCATCGCCTCCTCCAGTGAGGCCAGA
78619 P   C       A  ATGACGTGGCAGACCGGGCACCGTGTY
78619 P   T       A  CGCGCCGAGGTGGGCACCGTGTGY
78619 T   C       A  CCTCCACAGGGTGCCCGCTGGCCTCACTGGAGCAGGCGATGCTG
78619 T   T       A  CCTCCACAGGGTGCCCACTGGCCTCACTGGAGCAGGCGATGCTG
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78619 IS  (CT)     TGTCACATTCTTAT
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80563 P   G       S  CGCGCCGAGGCCCTGGGCCTCCY
80563 P   C       S  ATGACGTGGCAGACGCCTGGGCCTCCY
80563 T   G       S  GCAGGAAGCCCAGGGGCCCAGGCCAAGAAAGATGAGTTTTCAGGGCT
80563 T   C       S  GCAGGAAGCCCAAGCCCCCAGGCCAAGAAAGATGAGTTTTCAGGGCT
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80563 IS  (GC)     CAGCAGTGGGTCT
80637 I           A  GCCTTCGCCCTCCTCATTGGTGGGTA
80637 P   C       A  ATGACGTGGCAGACCCATACCGCGGGGY
80637 P   T       A  CGCGCCGAGGTCATACCGCGGGGY
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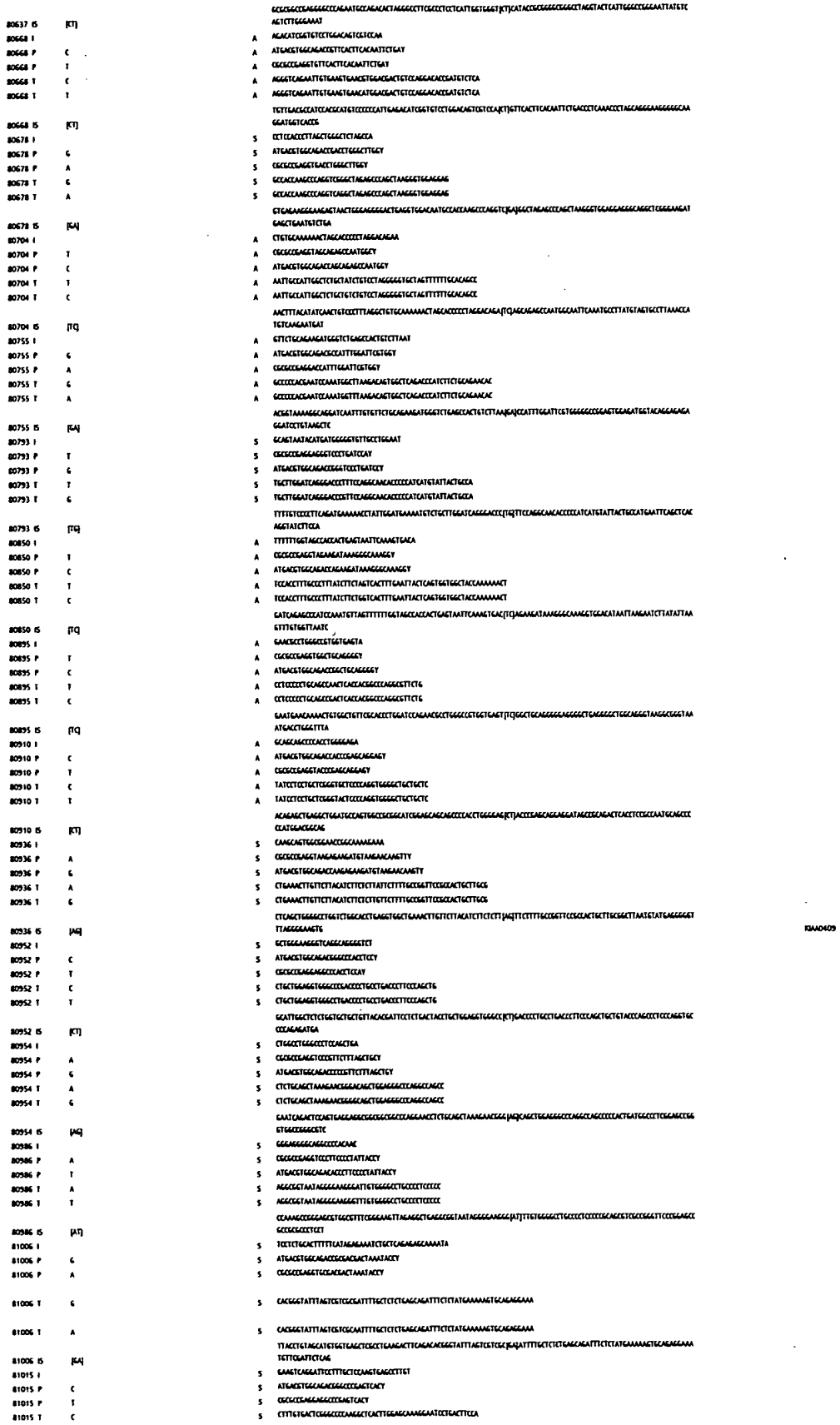
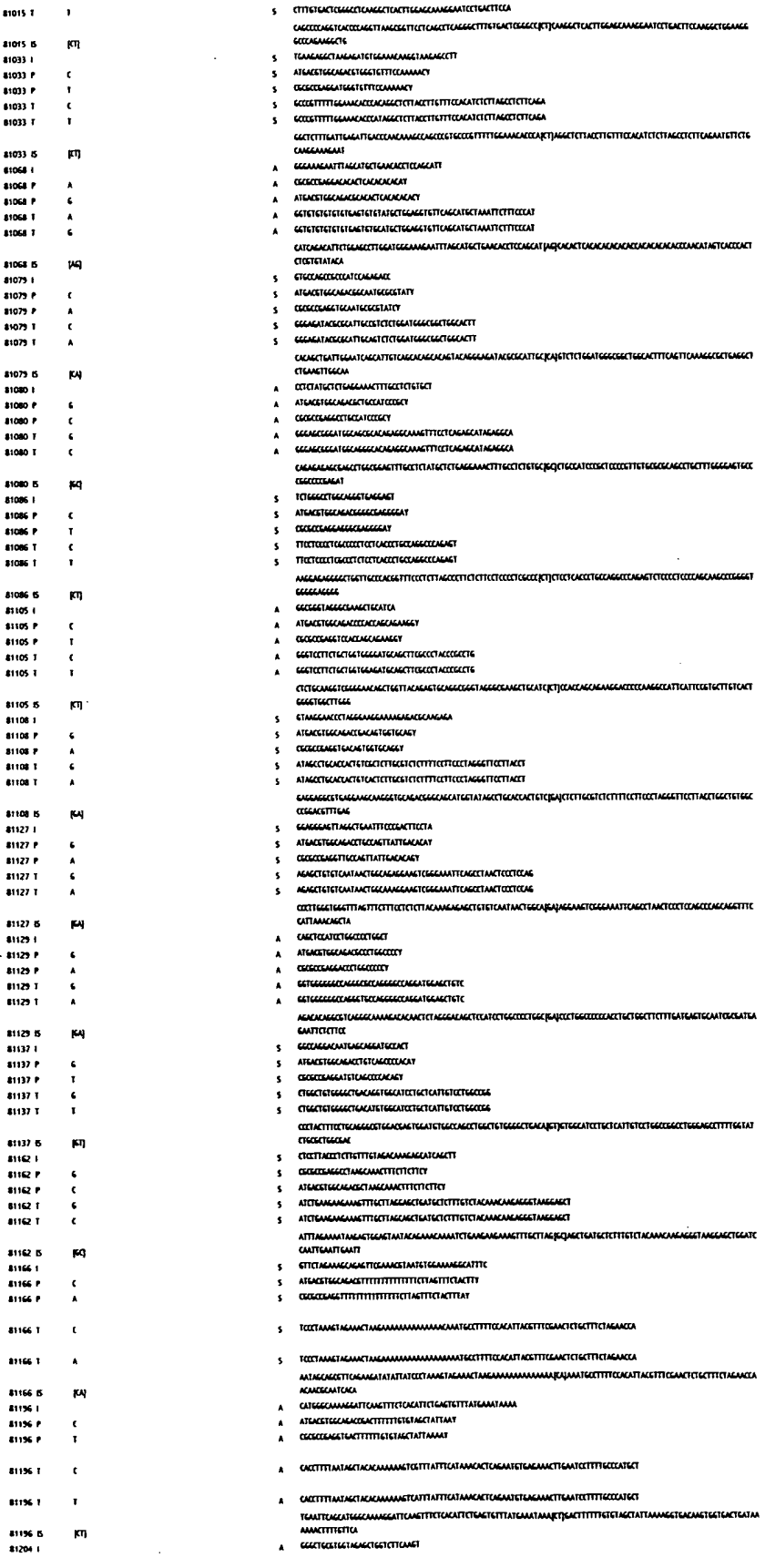
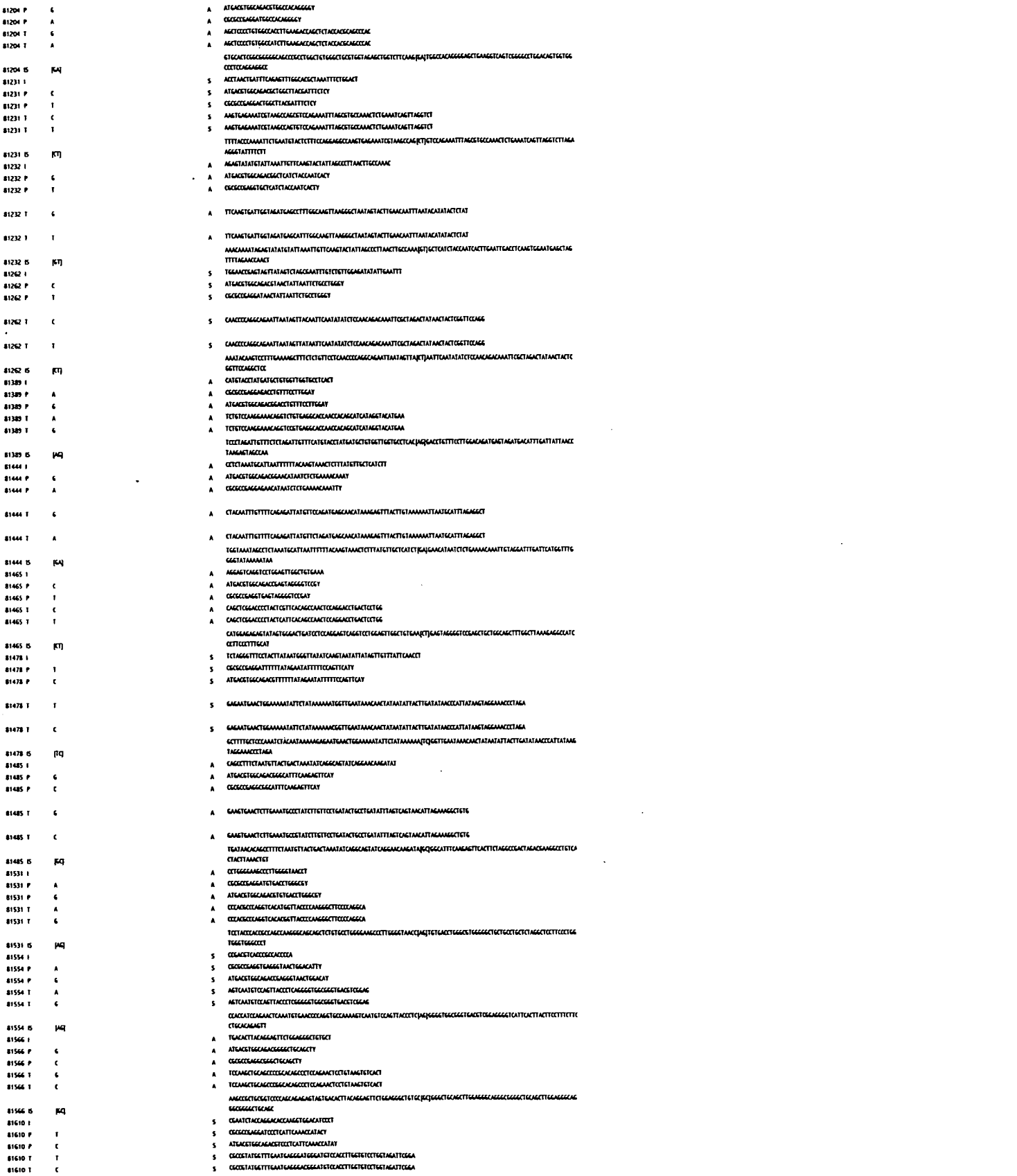
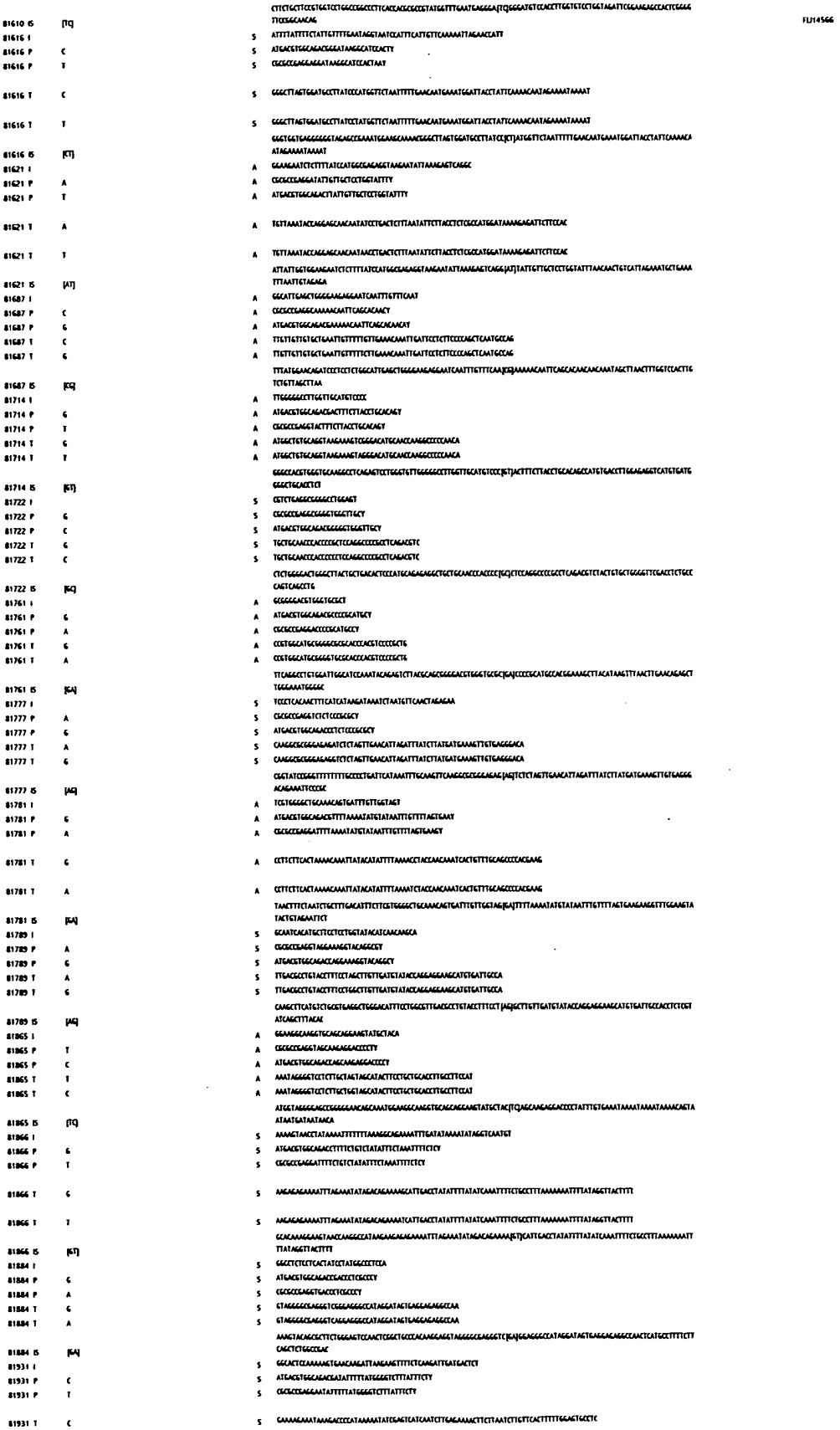
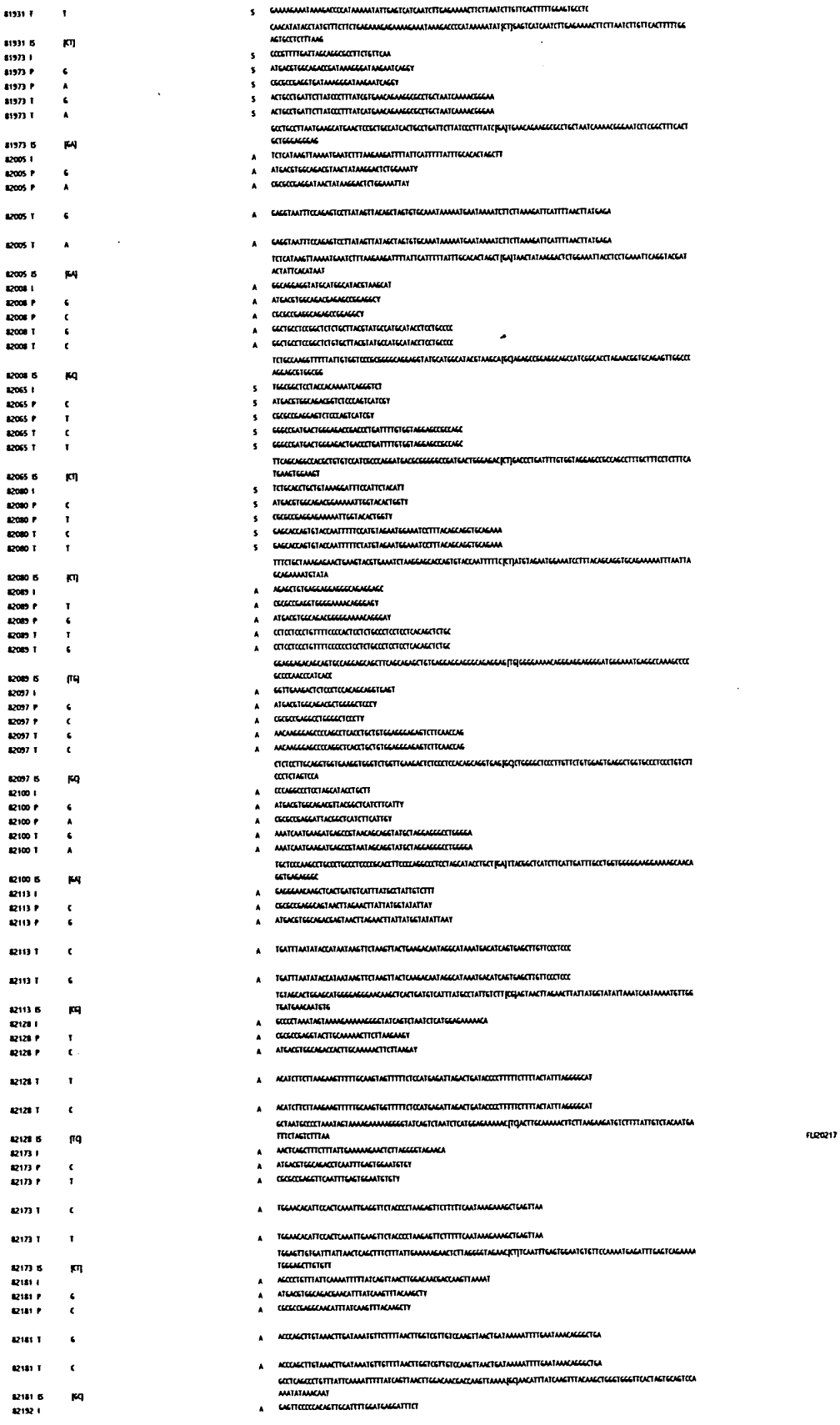


FIGURE 129C









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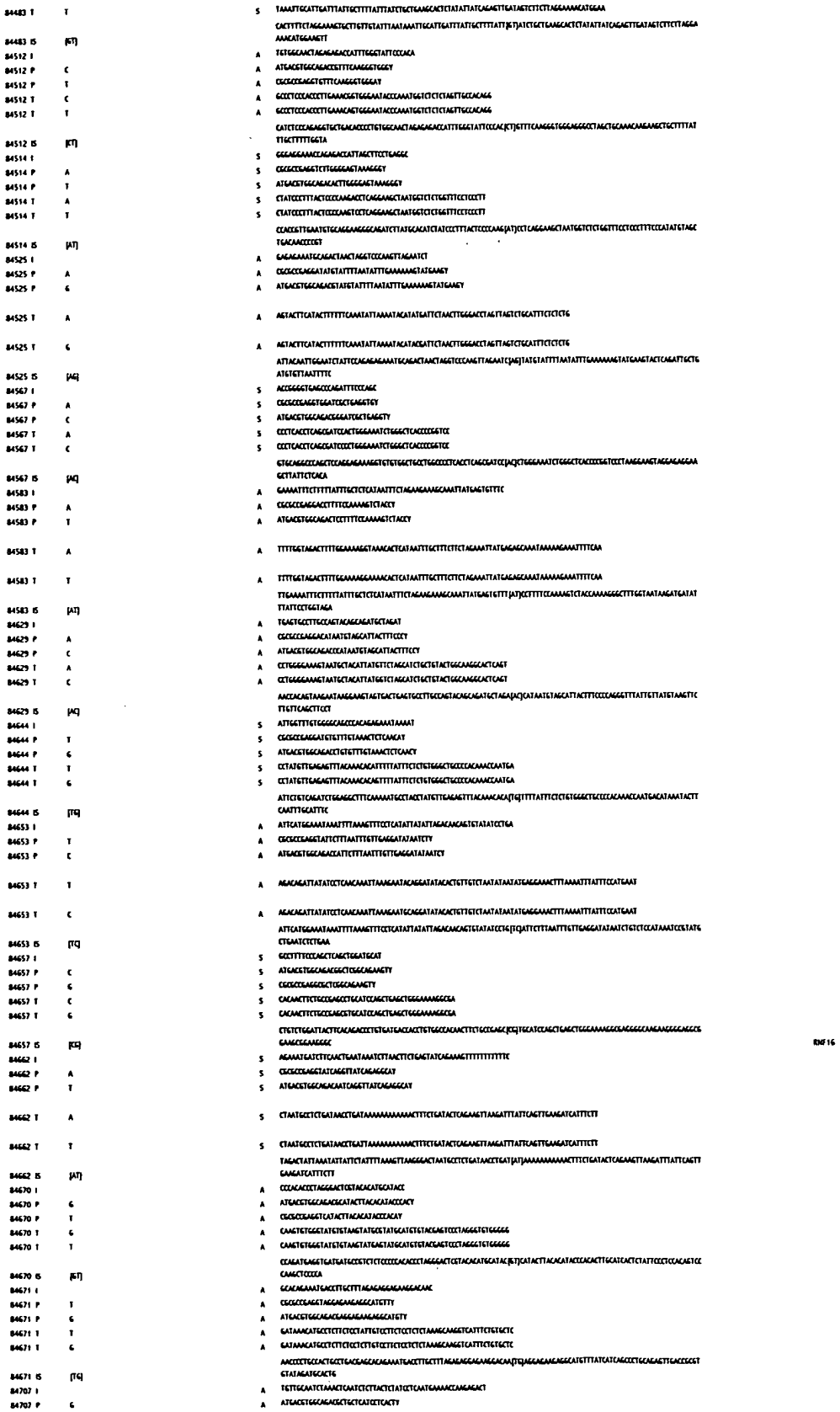
Confidential Unpublished Work of Celera Genomics

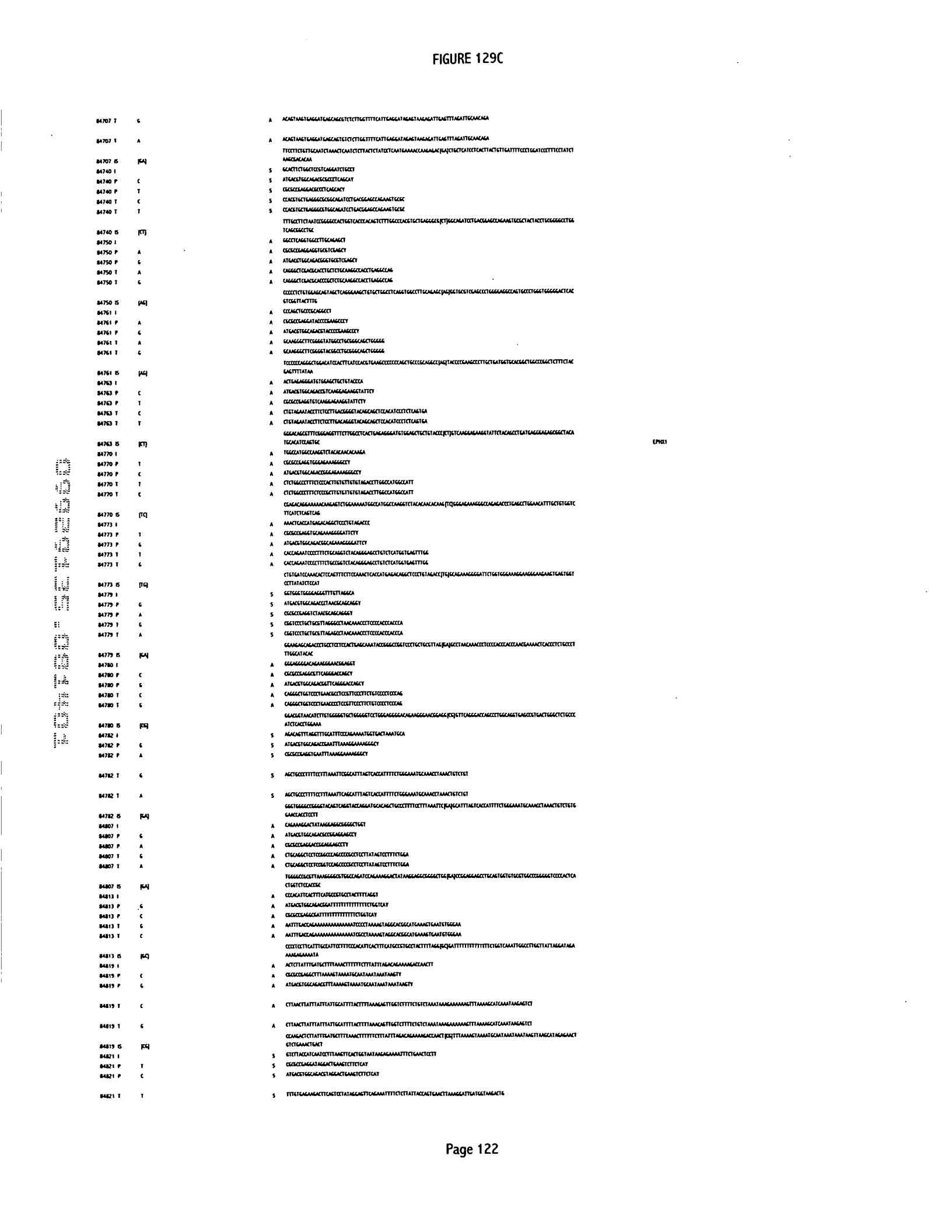
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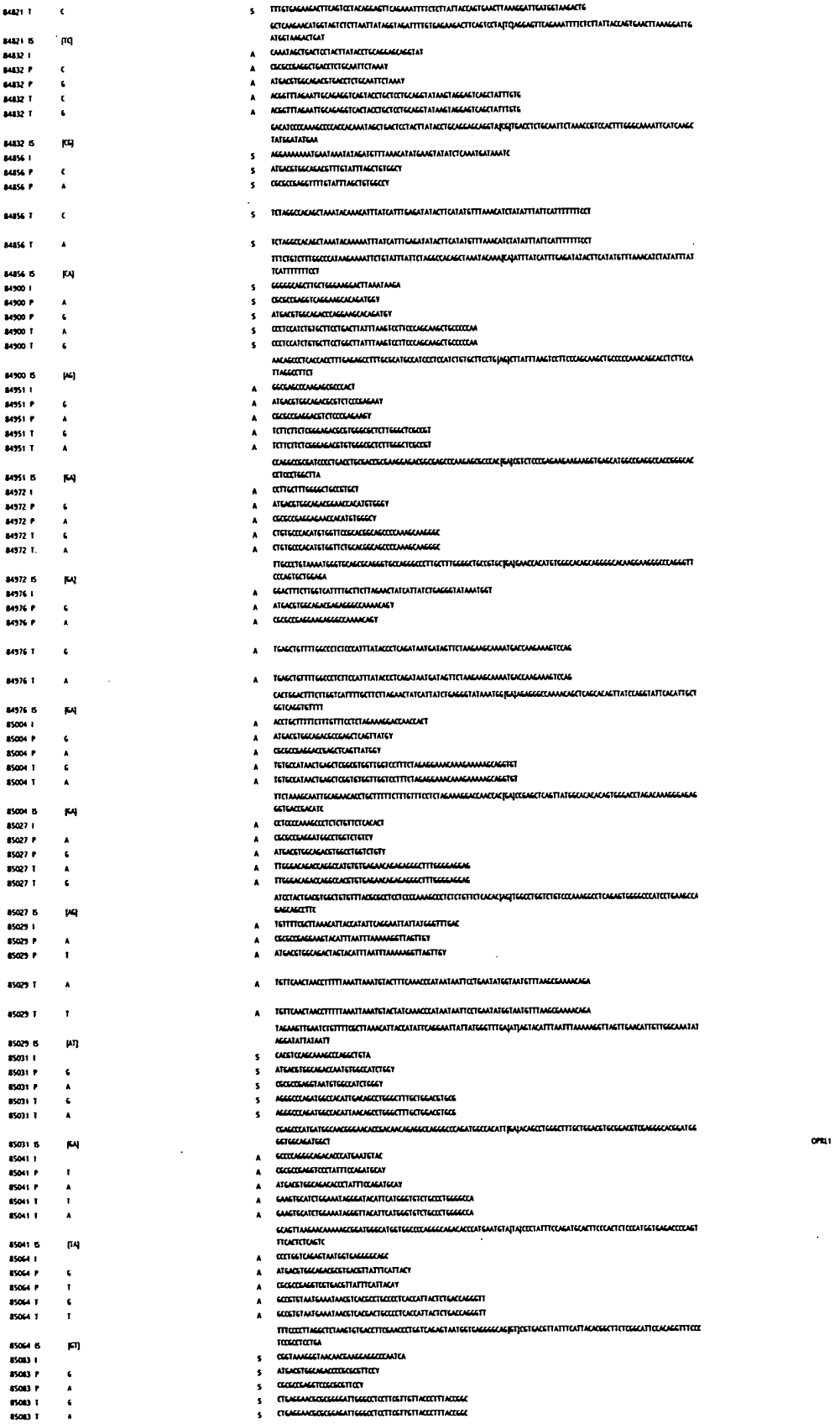


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84224 I		A	GCACCCATGCAGAGCCCTACACGCT	
84224 P	a	A	CGCGCCCAGGACAGGGCCCTGGY	
84224 P	g	A	ATGACGTGGCAGACGCAGGGCCCTGGY	
84224 T	a	A	GTGGCCAGGGCCCTGTGCGTGTGTAGGGCTCTGCATGGGTGCTC	
84224 T	g	A	GTGGCCAGGGCCCTGCGCGTGTGTAGGGCTCTGCATGGGTGCTC	
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84238 P	C	S	ATGACGTGGCAGACGCCAGCACGGGY	
84238 P	A	S	CGCGCCAAGGTGCAGCCACGGGY	
84238 T	C	S	CTGTCCCGTGCCTGCCCTGGCTCTGGAGTCCAAAGCCCCCTTA	
84238 T	A	S	CTGTCCCGTGCCTGCACTGGCTCTGGAGTCCAAAGCCCCCTTA	
84238 IS	[CA]		CTGCACCAGAACTCTGAGGTCCTGGCAGGATTCTCAGACACTGCCCTGTCCCGTGCCTGC[CA]CTGGCTCTGGAGTCCAAAGCCCCCTTATACCATGGCCCGGTTACCTGCT GGAGCCAGTG	
84243 I		S	TGACCTGAAGCAACTGCCGGAGCTGAACT	
84243 P	G	S	ATGACGTGGCAGACCACCAGTGCTGATGY	
84243 P	T	S	CGCGCCGAGGACACCAGTGCTGATGCY	
84243 T	G	S	CTGGGCATCAGCACTGGTGGGTTCAGCTCCGGCAGTTGCTTCAGGTCAGC	
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84270 P	A	A	CGCGCCGAGGAGGGGCGAGGAATTCCCY	
84270 P	G	A	ATGACGTGGCAGACGGGGGGAGGATTCCY	
84270 T	A	A	CAAGGGGAATCCTCCCCCTGCCCTCCCTTACCATGCCACATCAAGCGG	
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84280 P	C	A	ATGACGTGGCAGACGGTTCTCTAAATCAGGGY	
84280 P	T	A	CGCGCCGAGGTGGTTCTCTAAATCAGGGTY	
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84436 P	G	S	ATGACGTGGCAGACCGAGGGTACTTTTTTGGTY	
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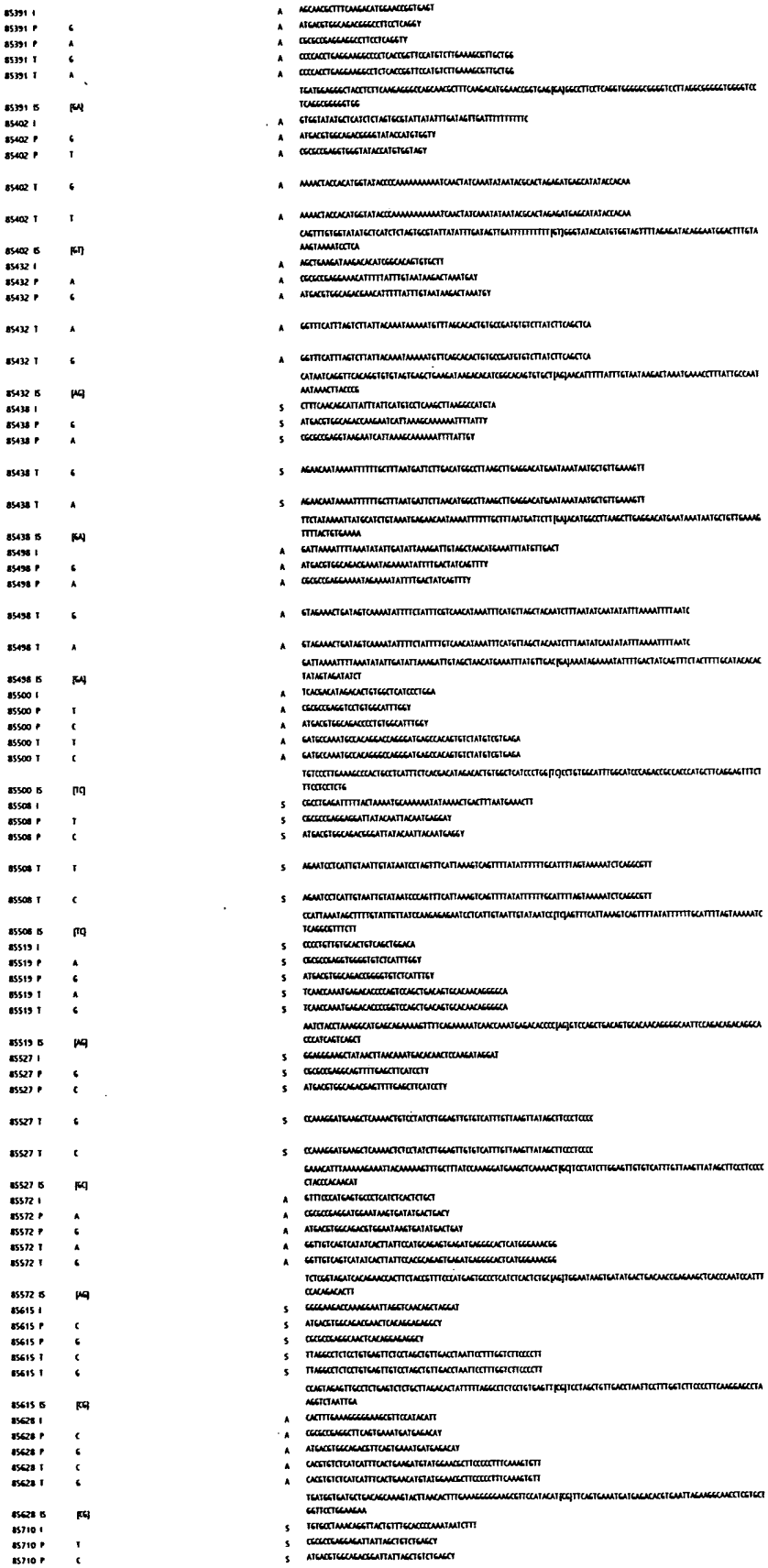


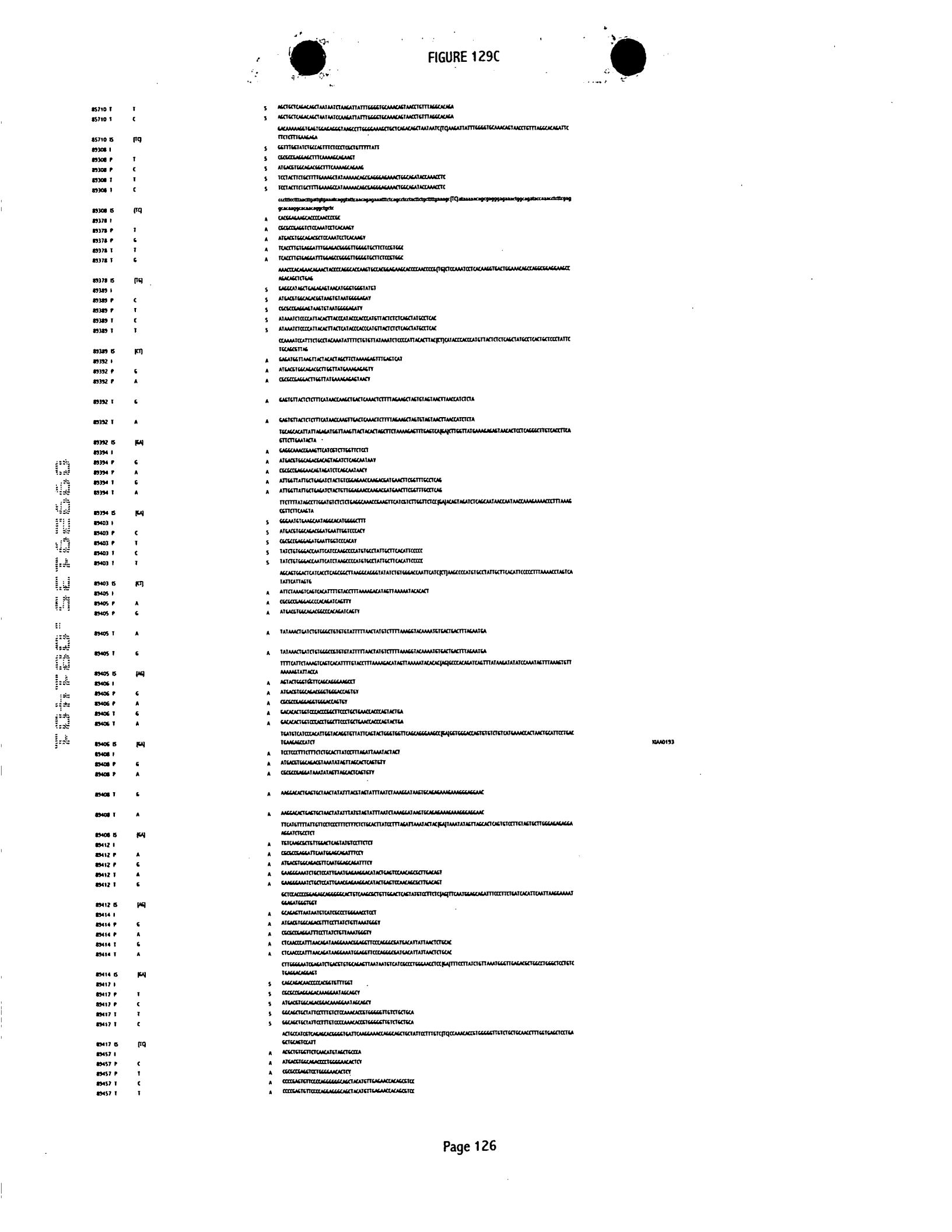




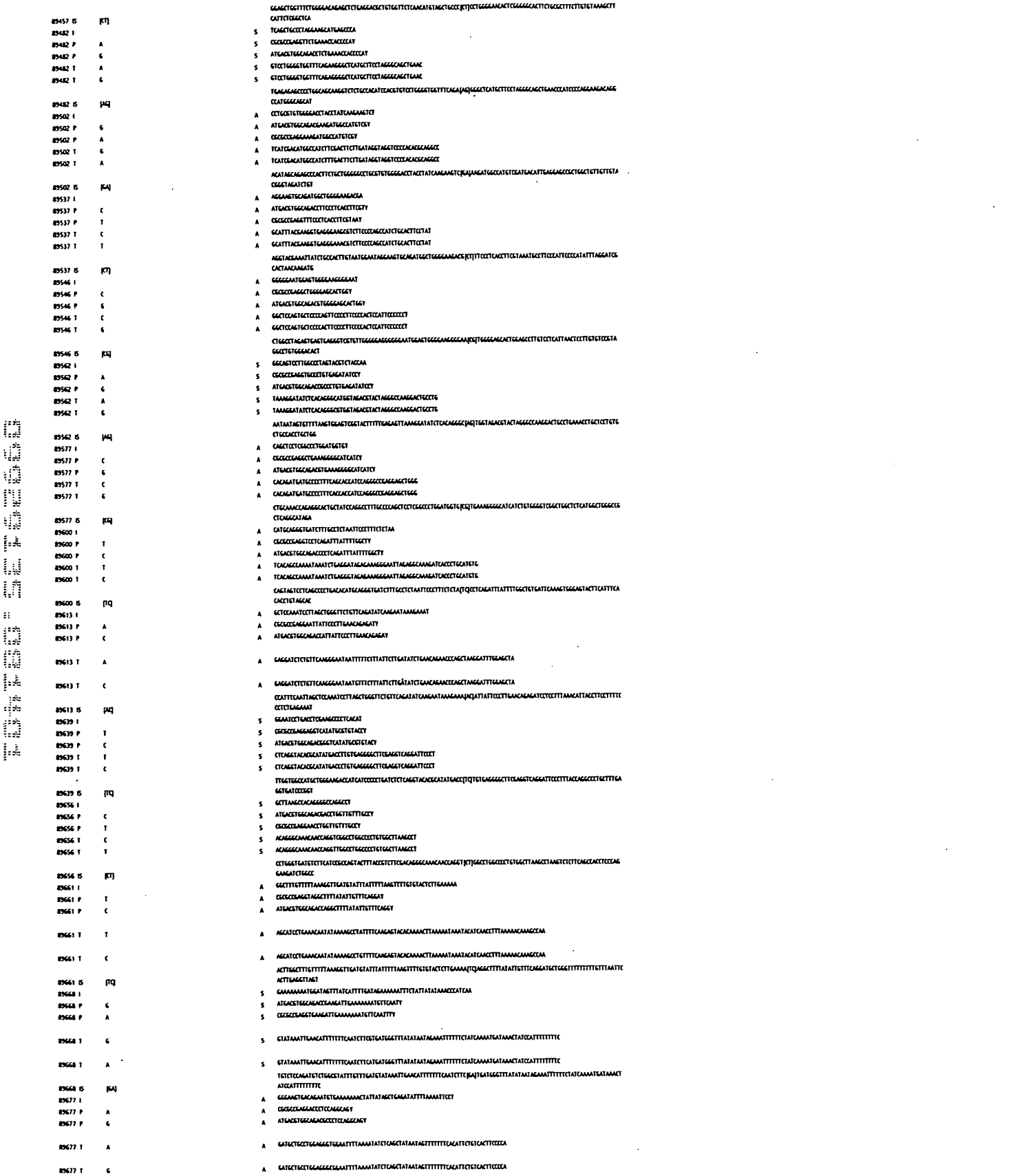
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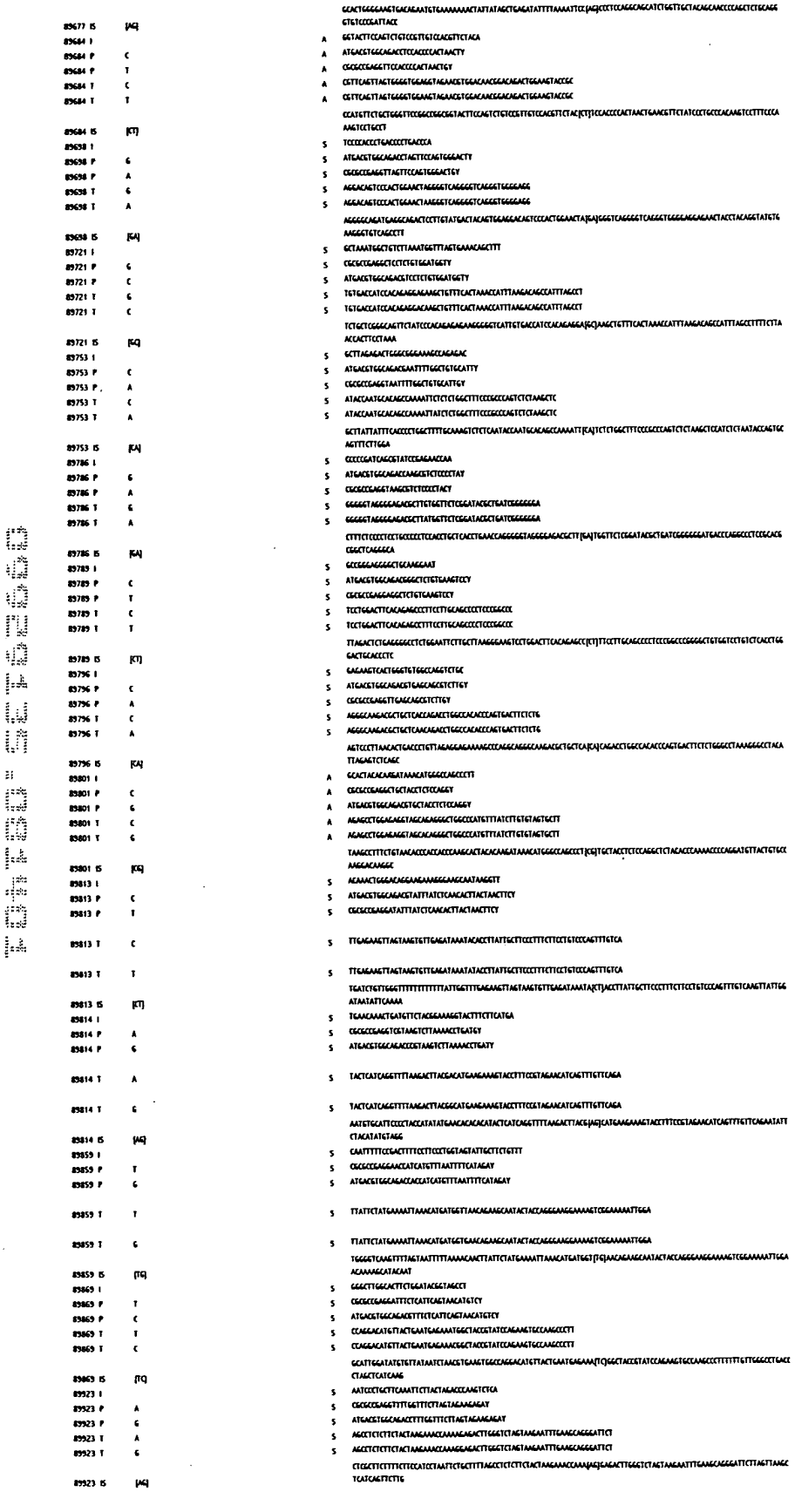
FIGURE 129C

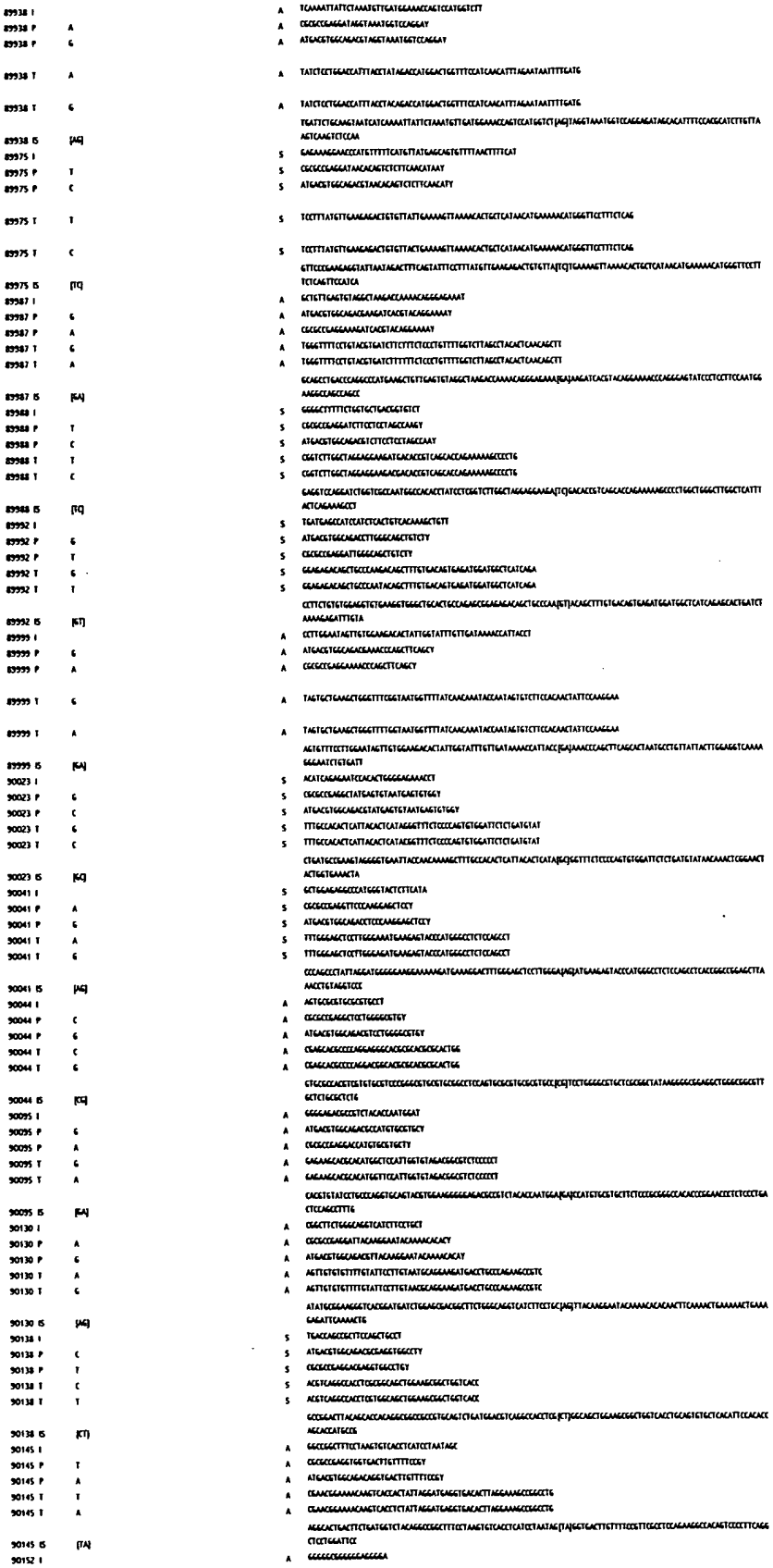




Unpublished Draft Application




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89813 P C
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89859 P G
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89923 T G
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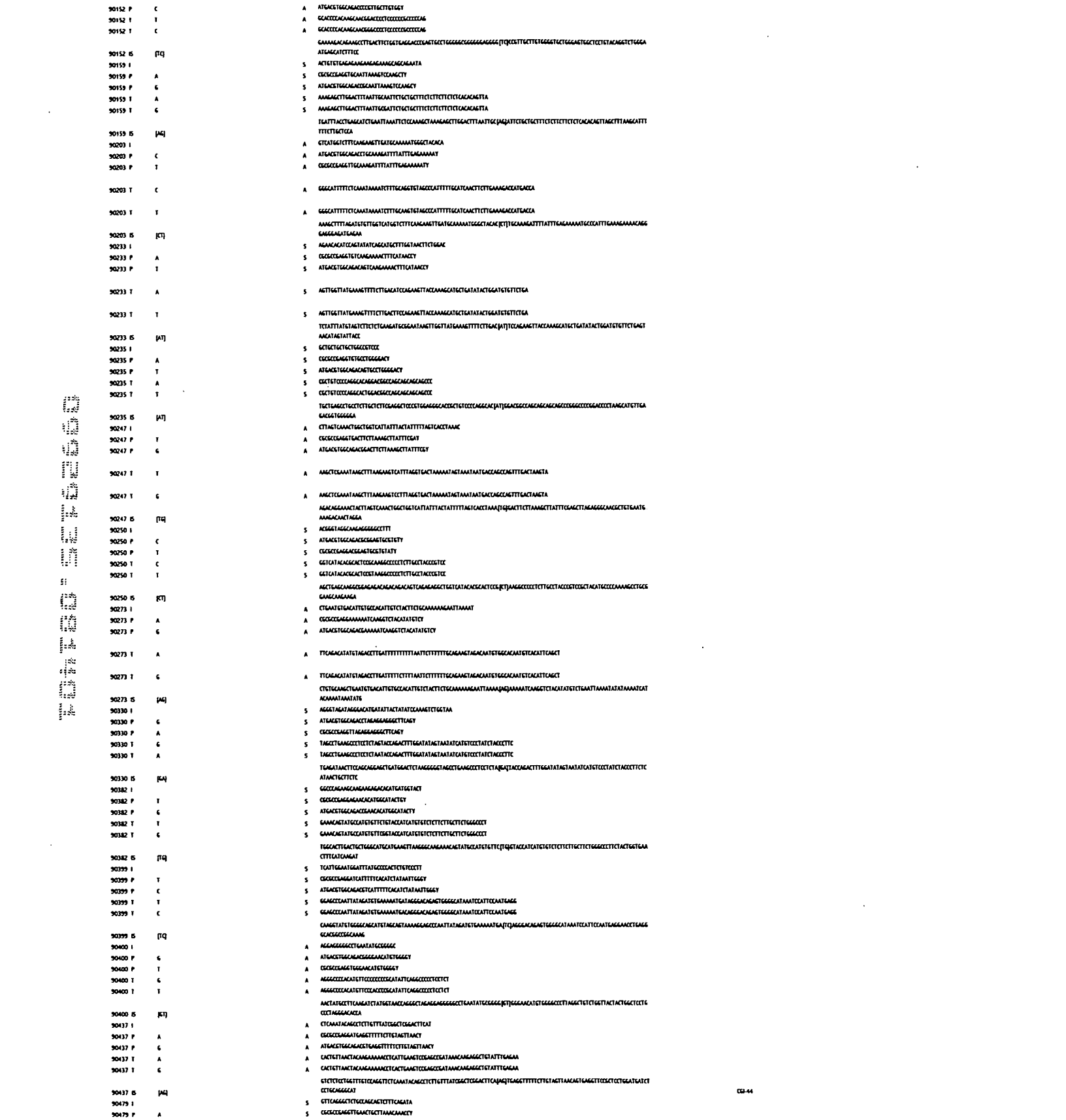
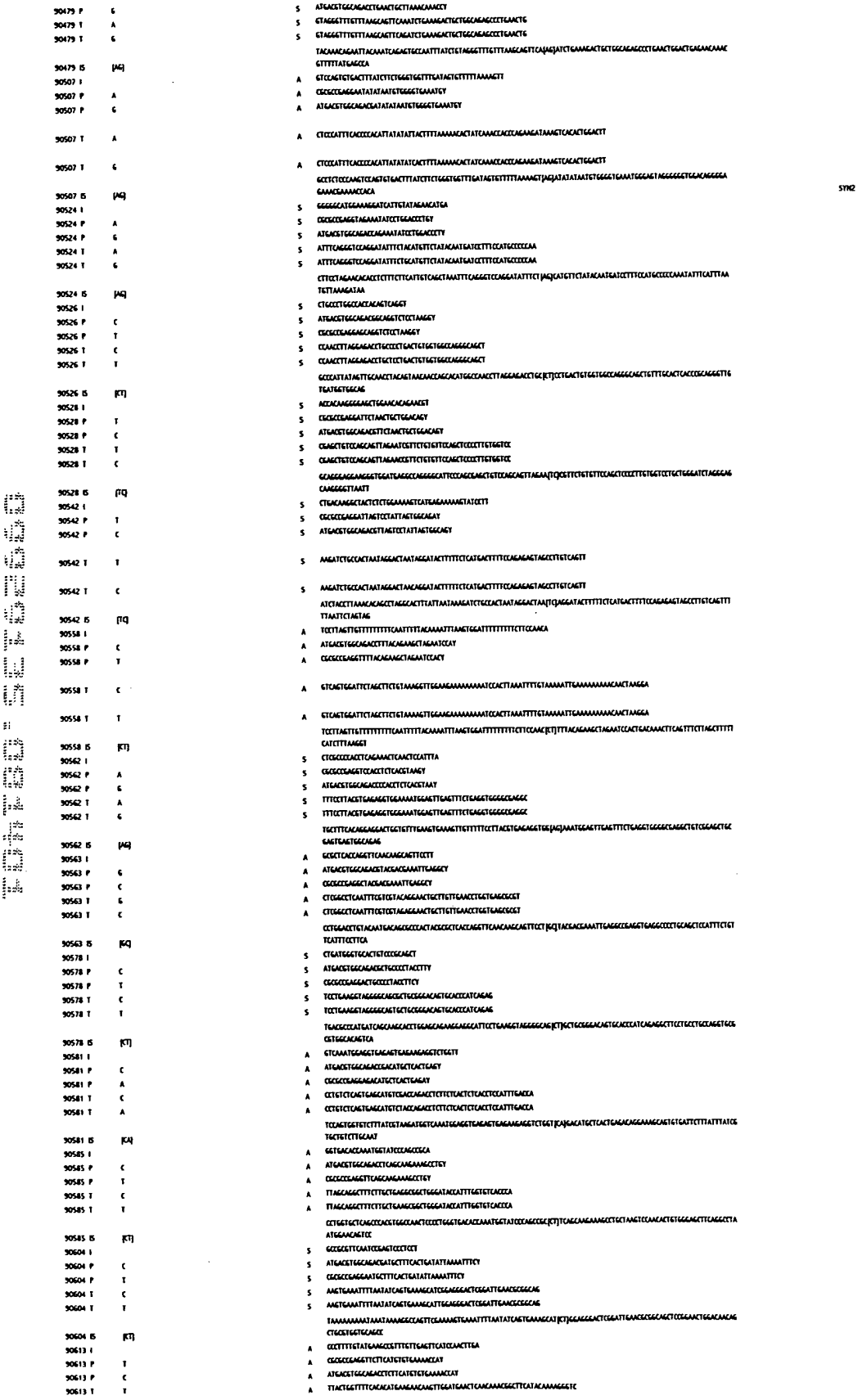
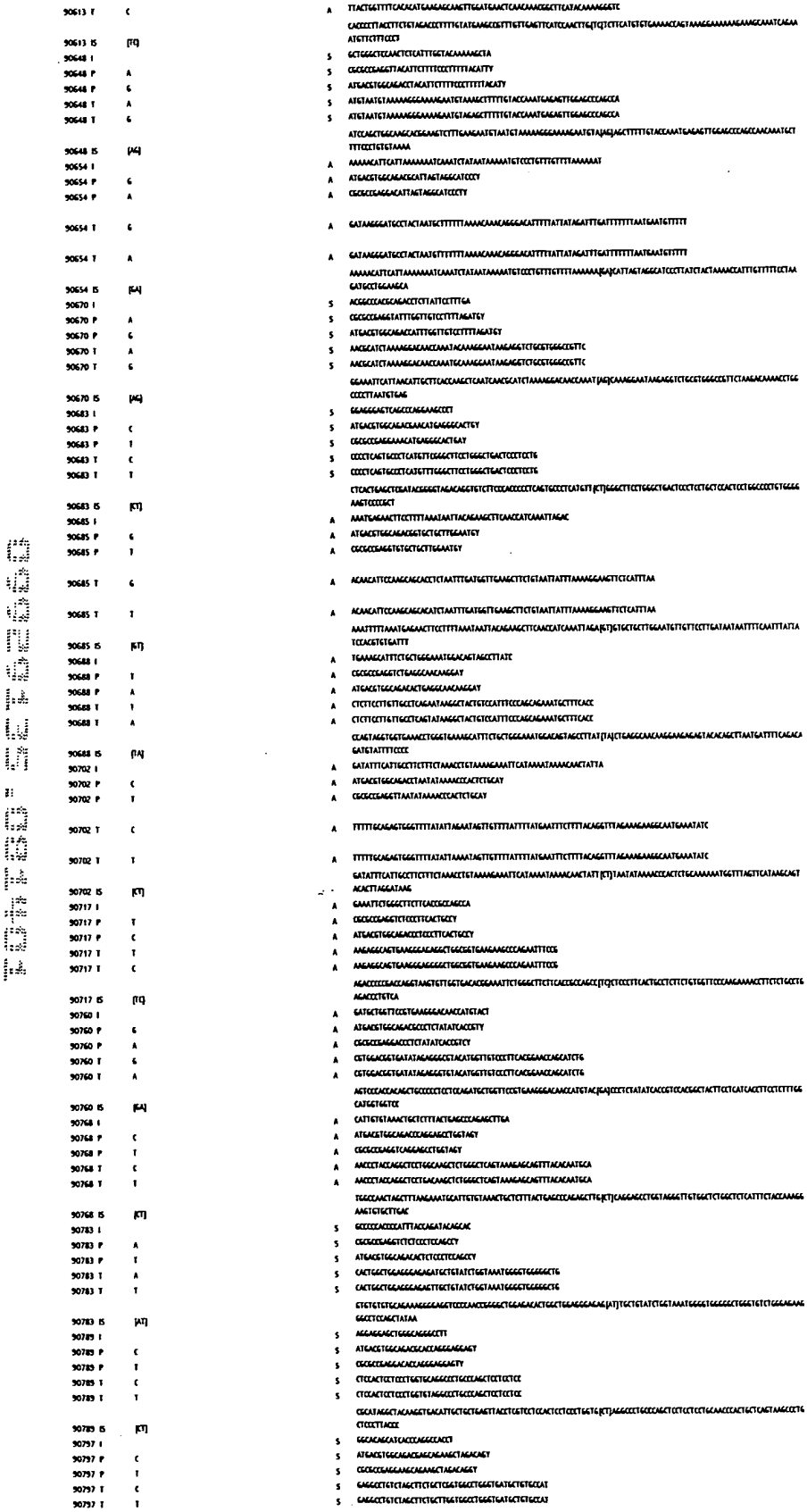
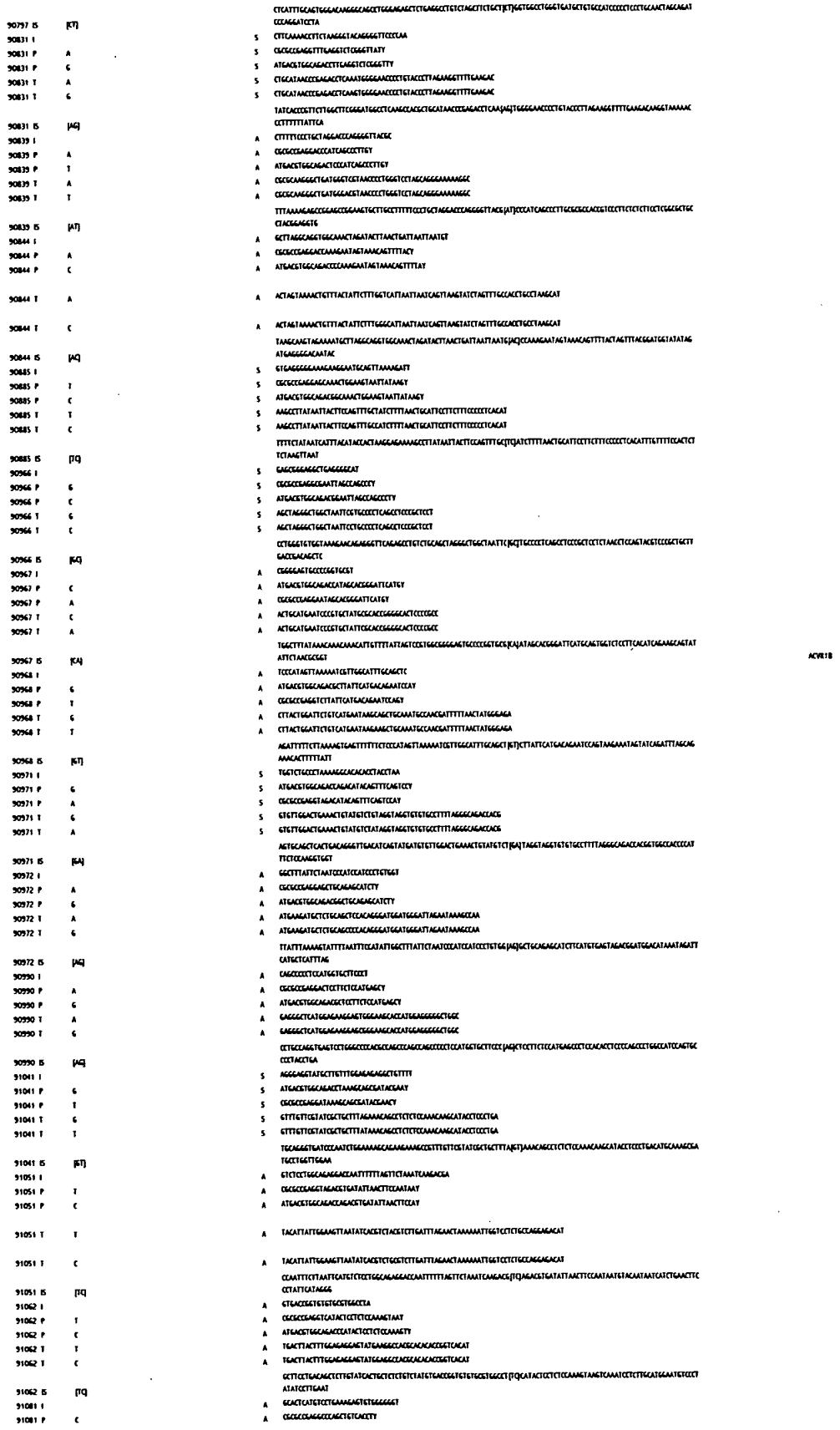
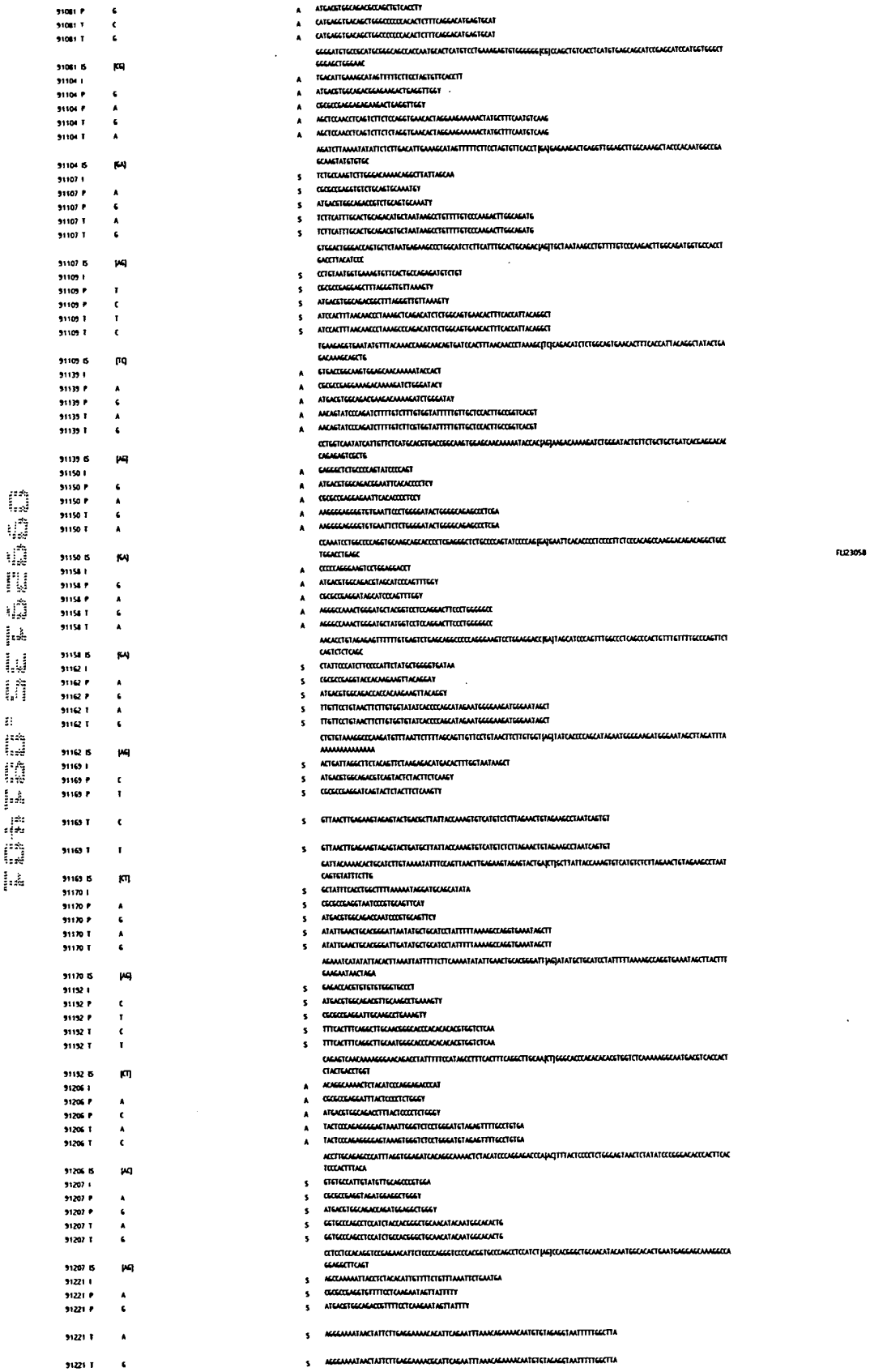


FIGURE 129C









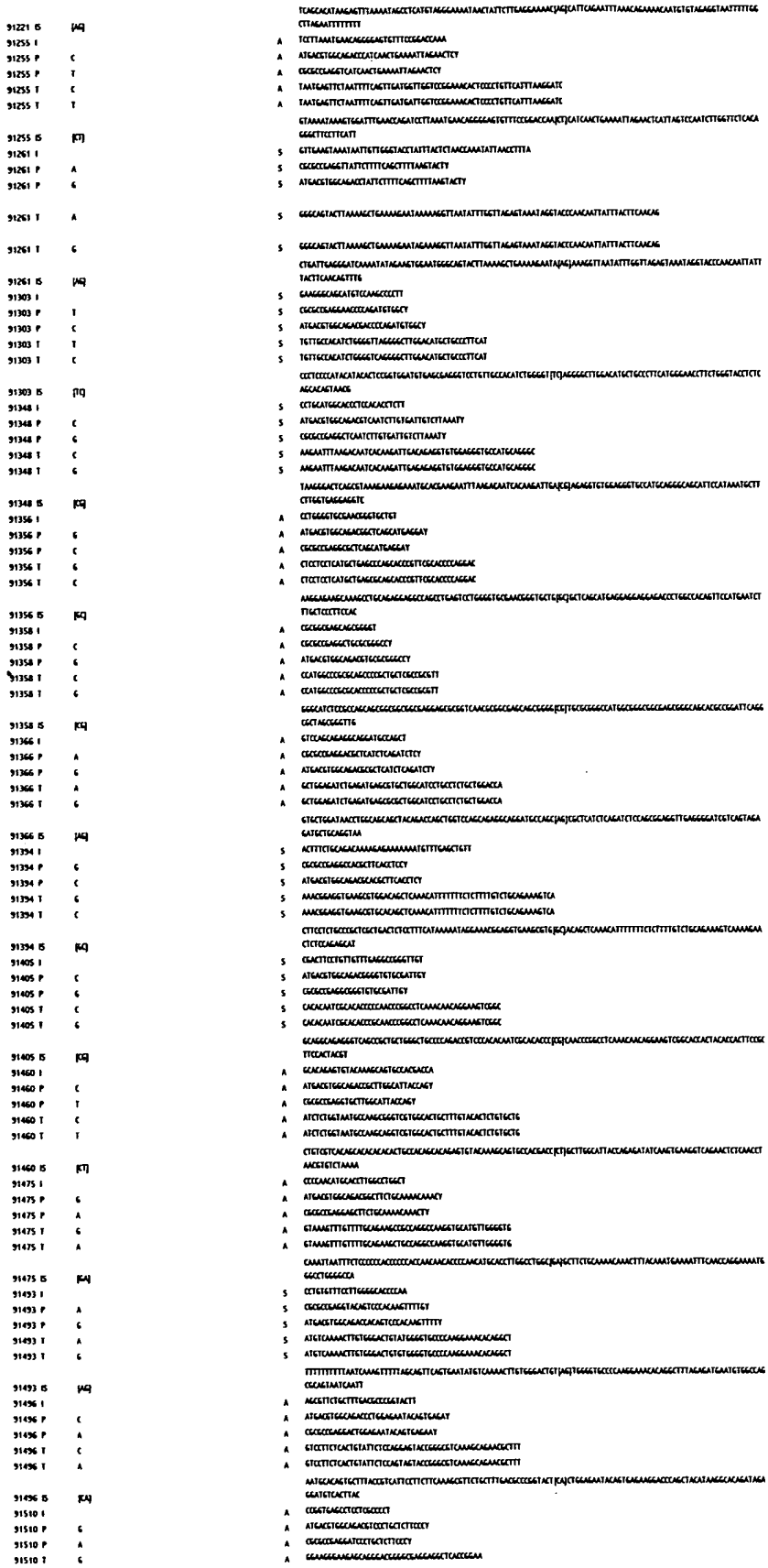
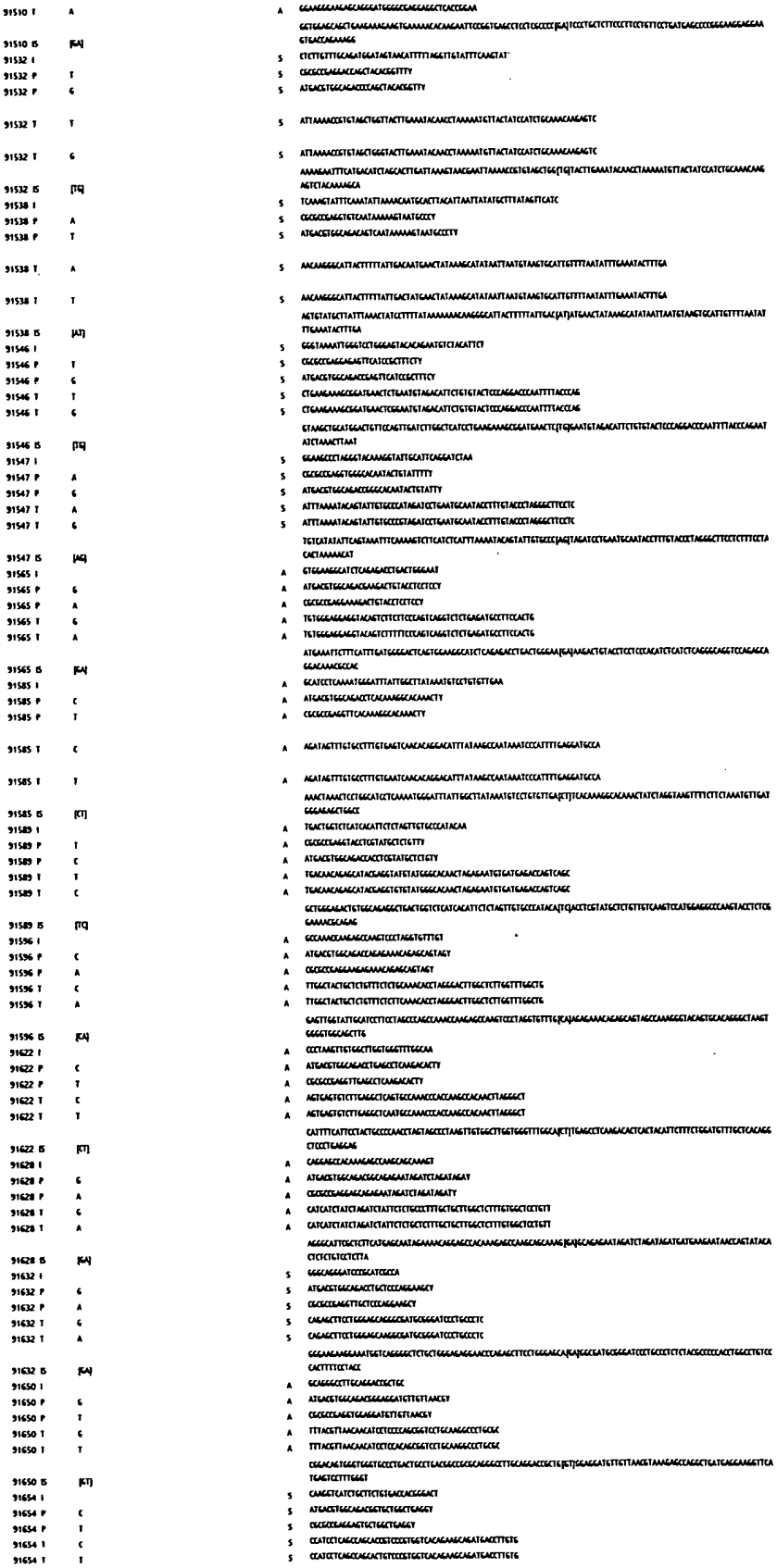
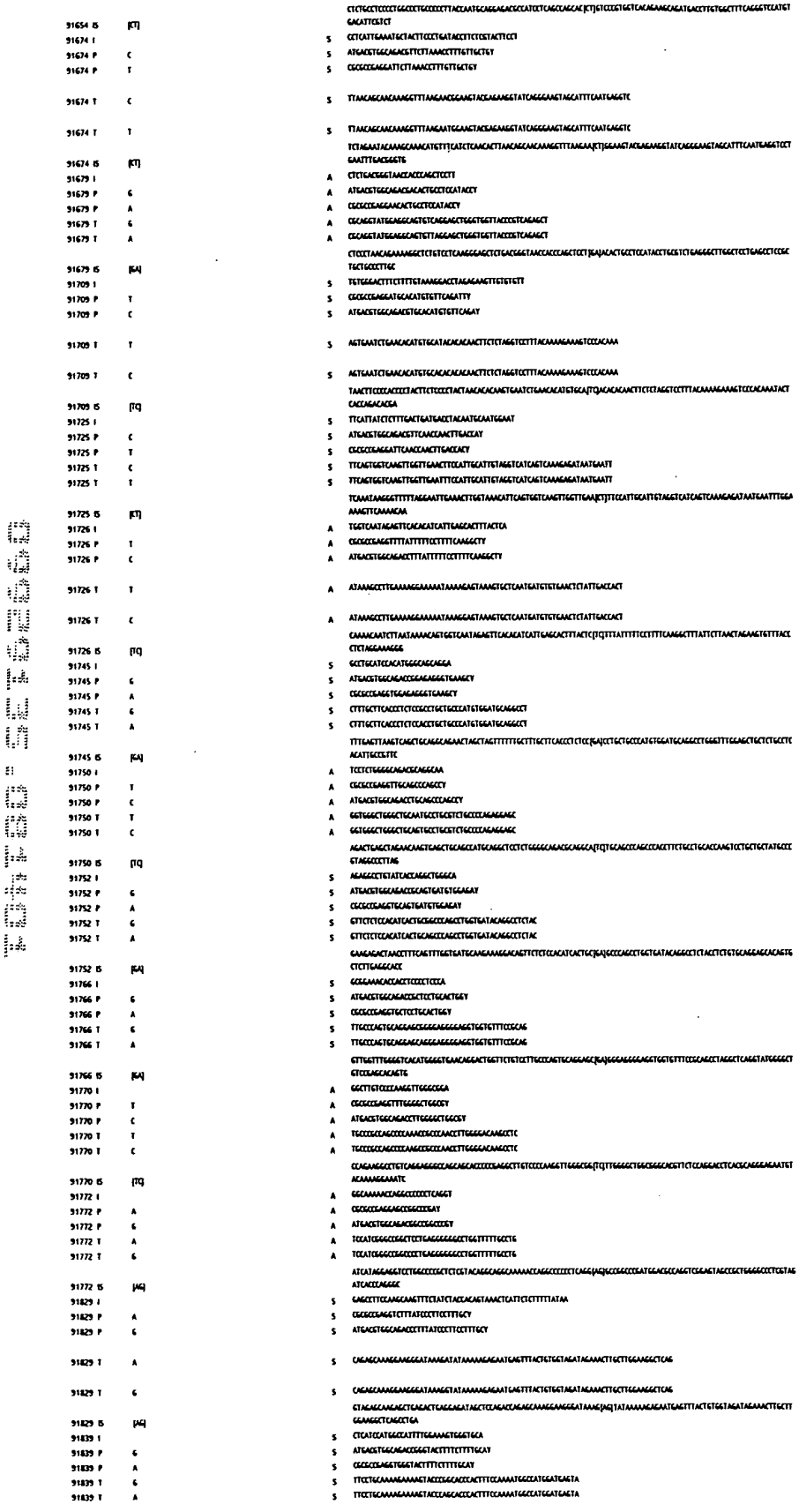
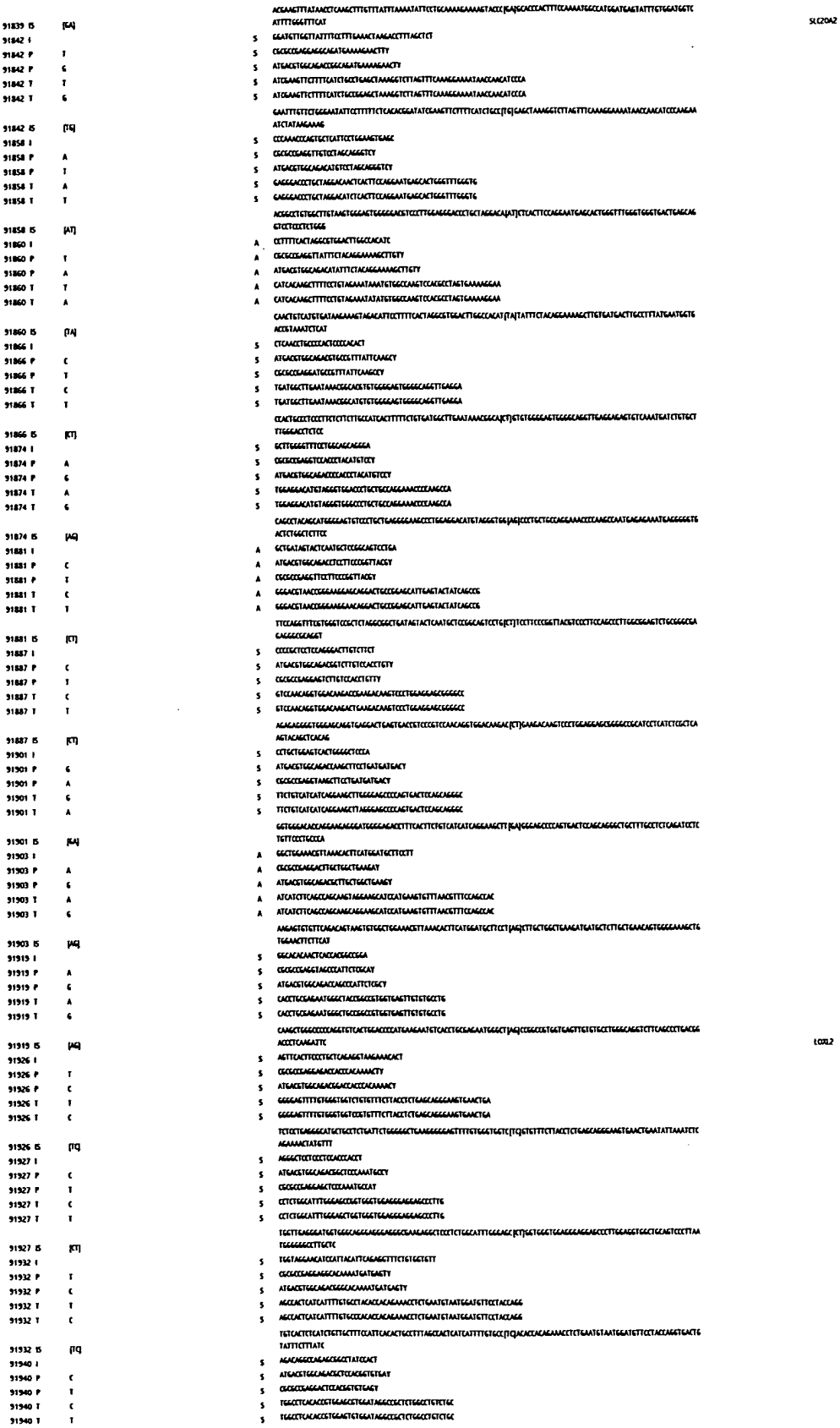


FIGURE 129C






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SLC20A2

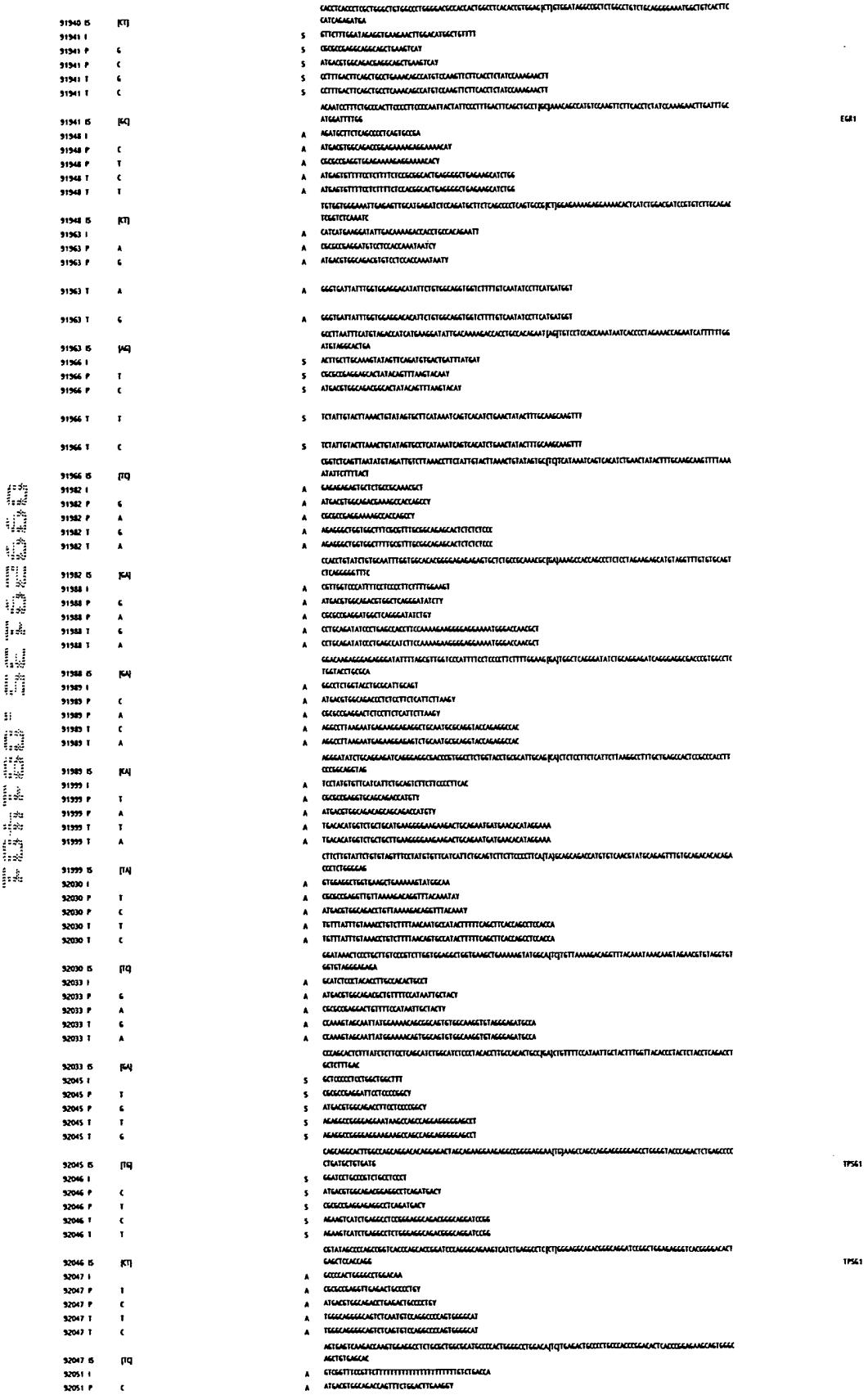
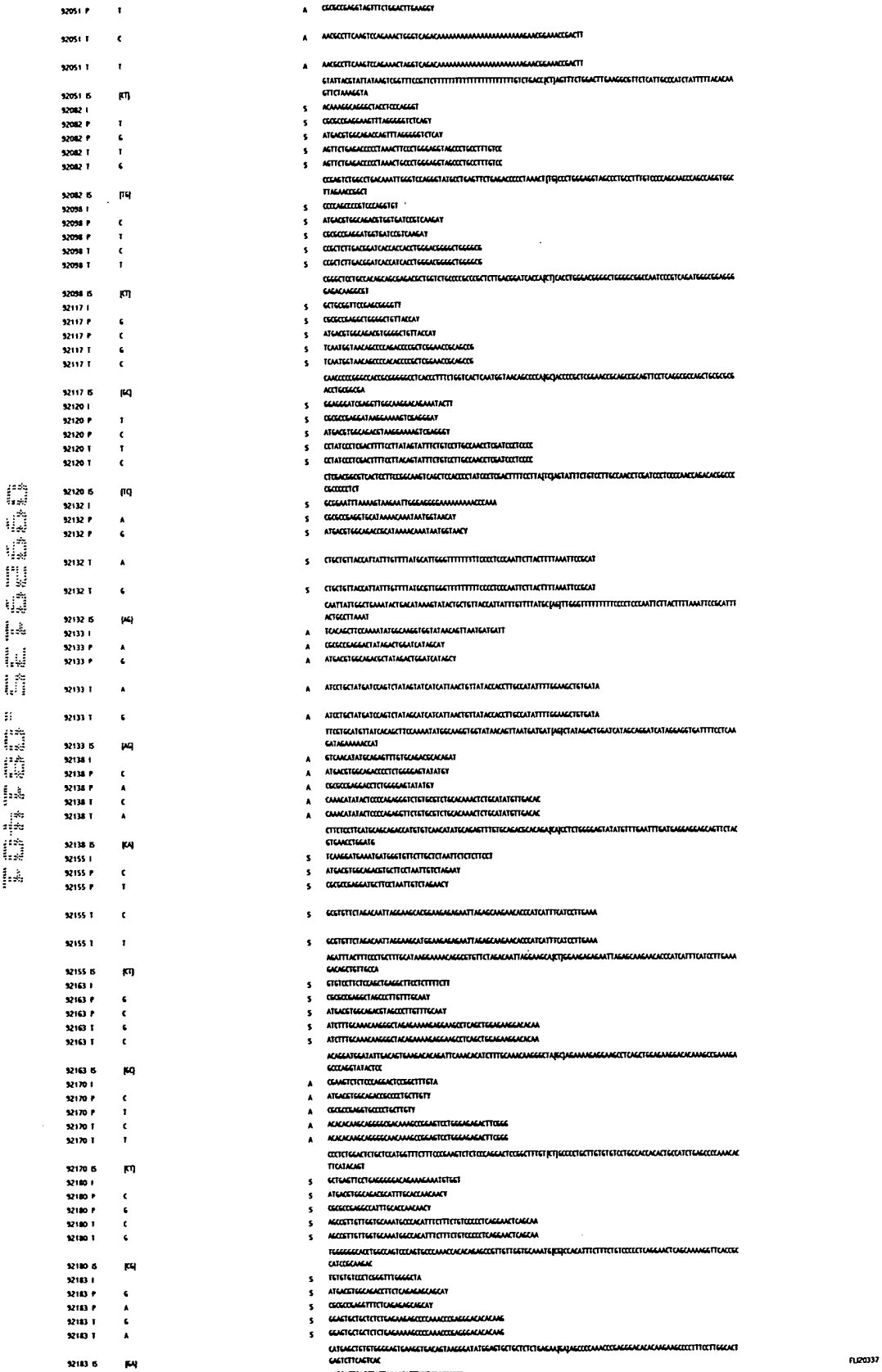
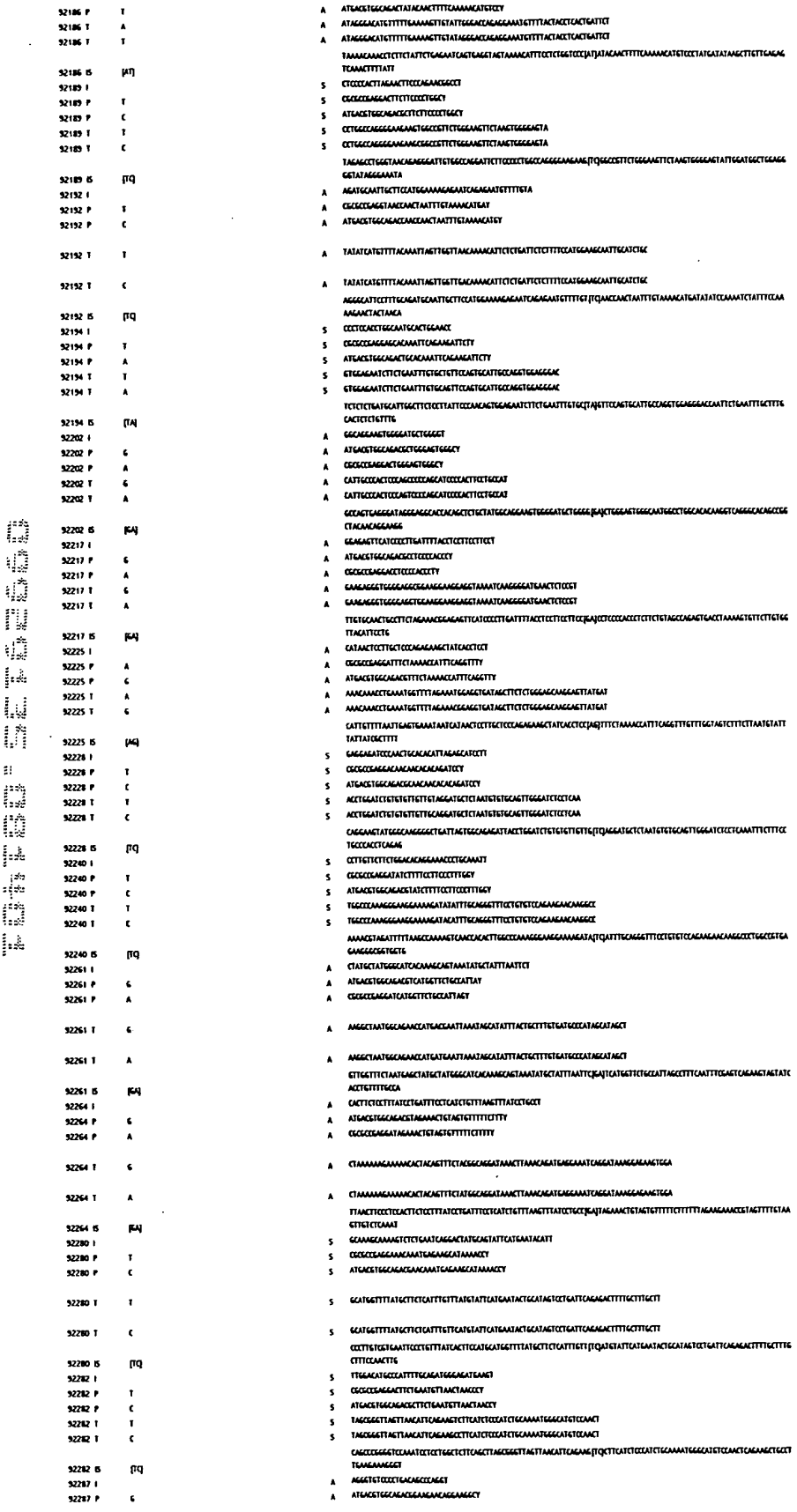
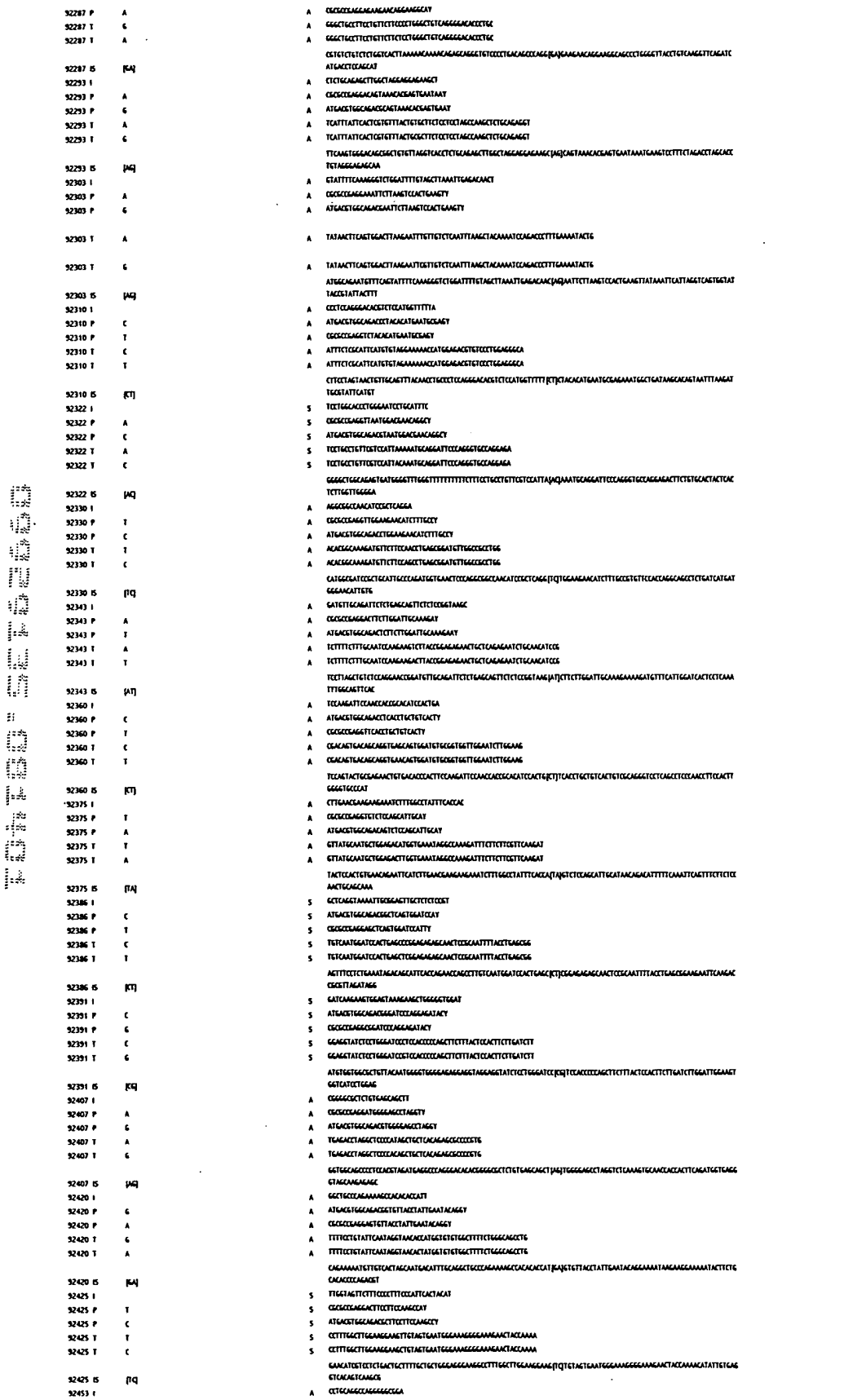
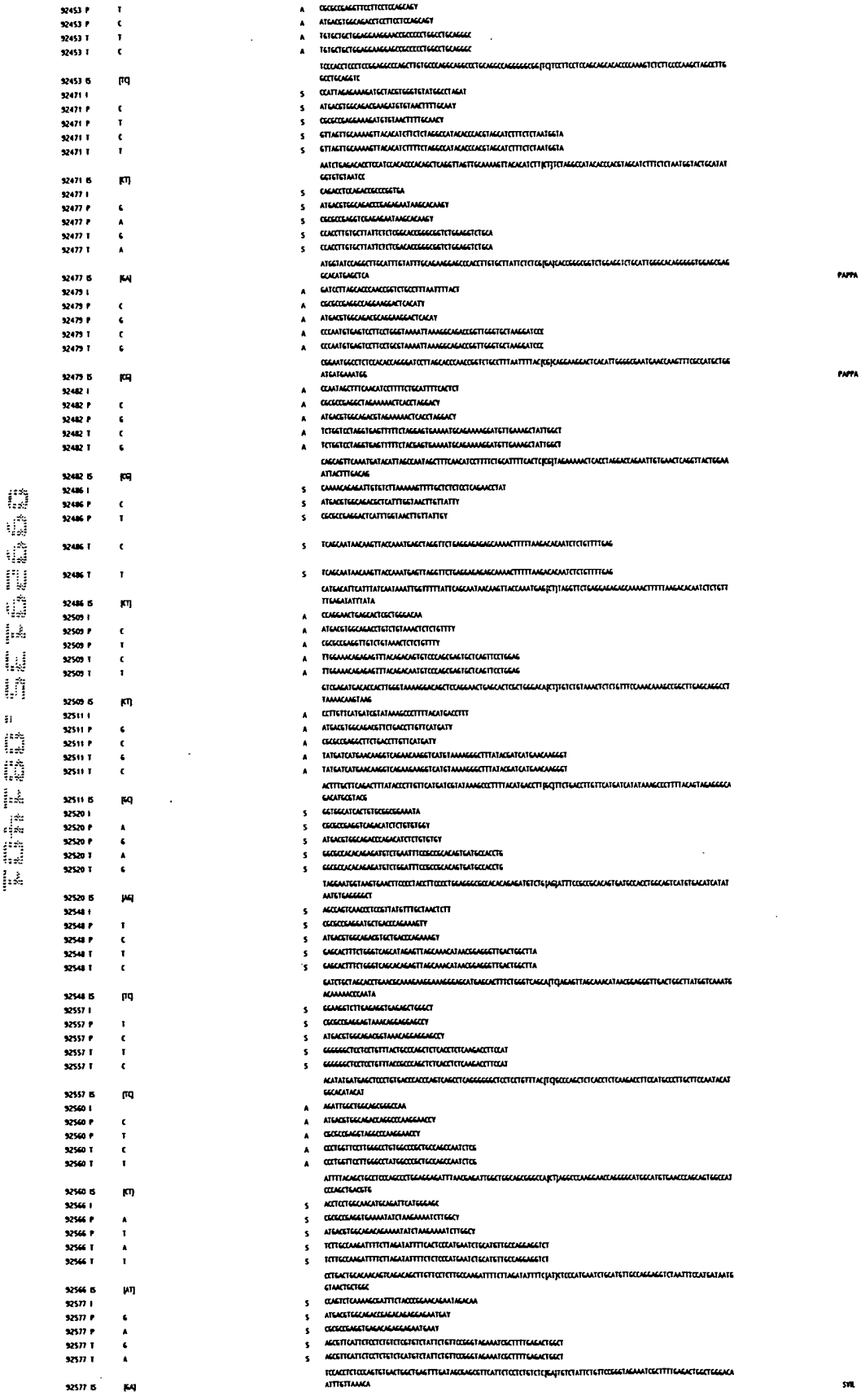


FIGURE 129C









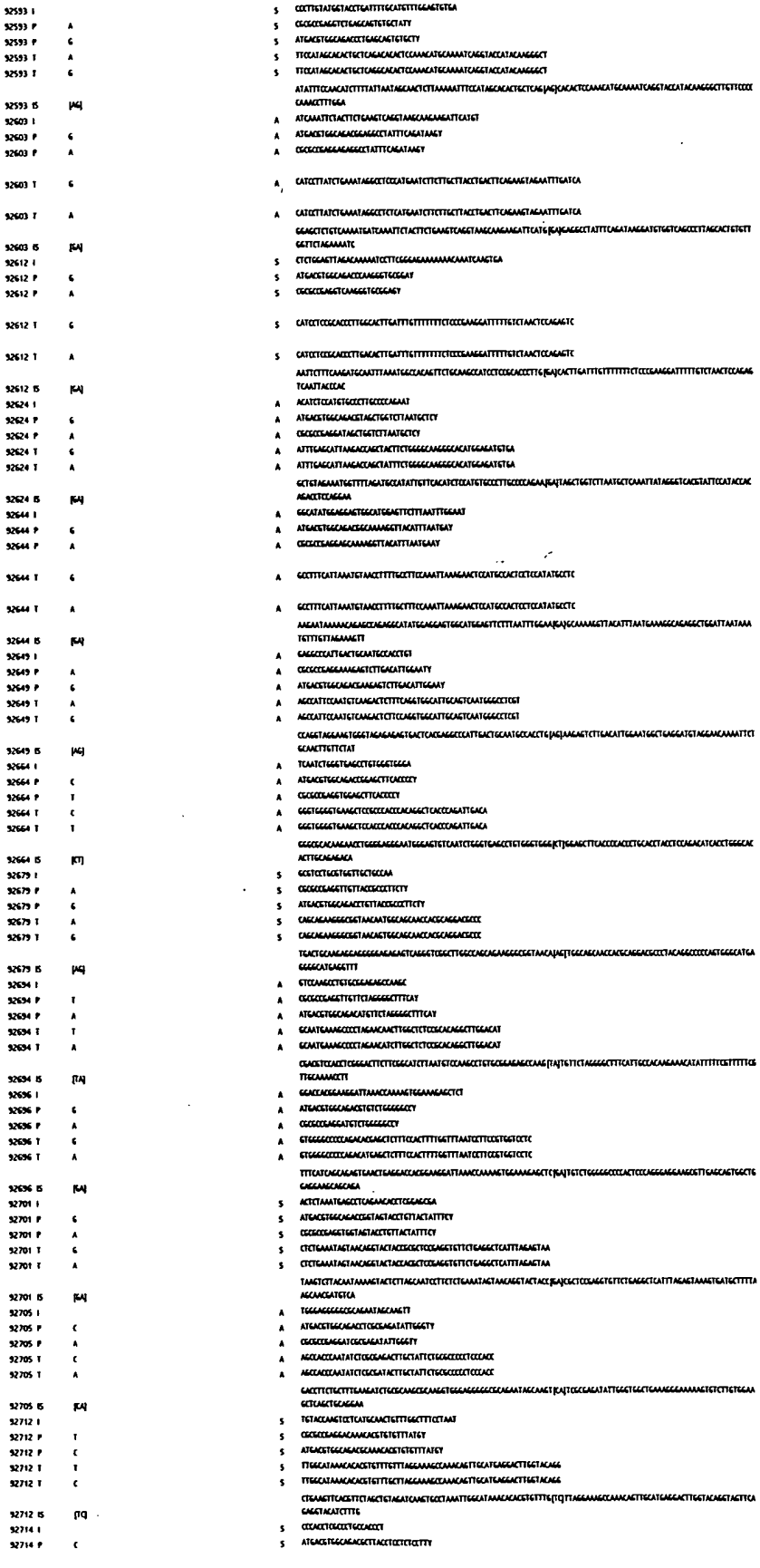
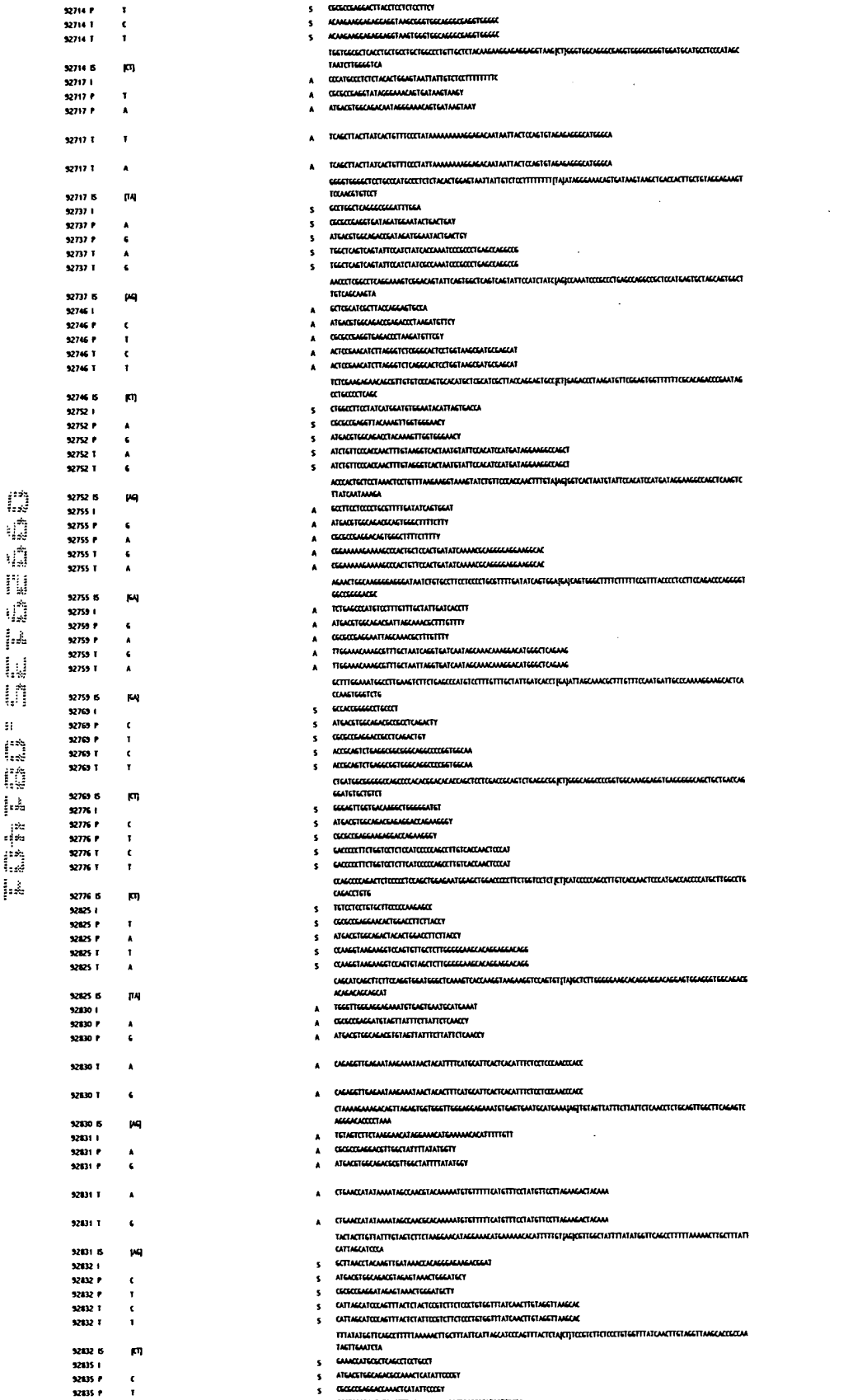


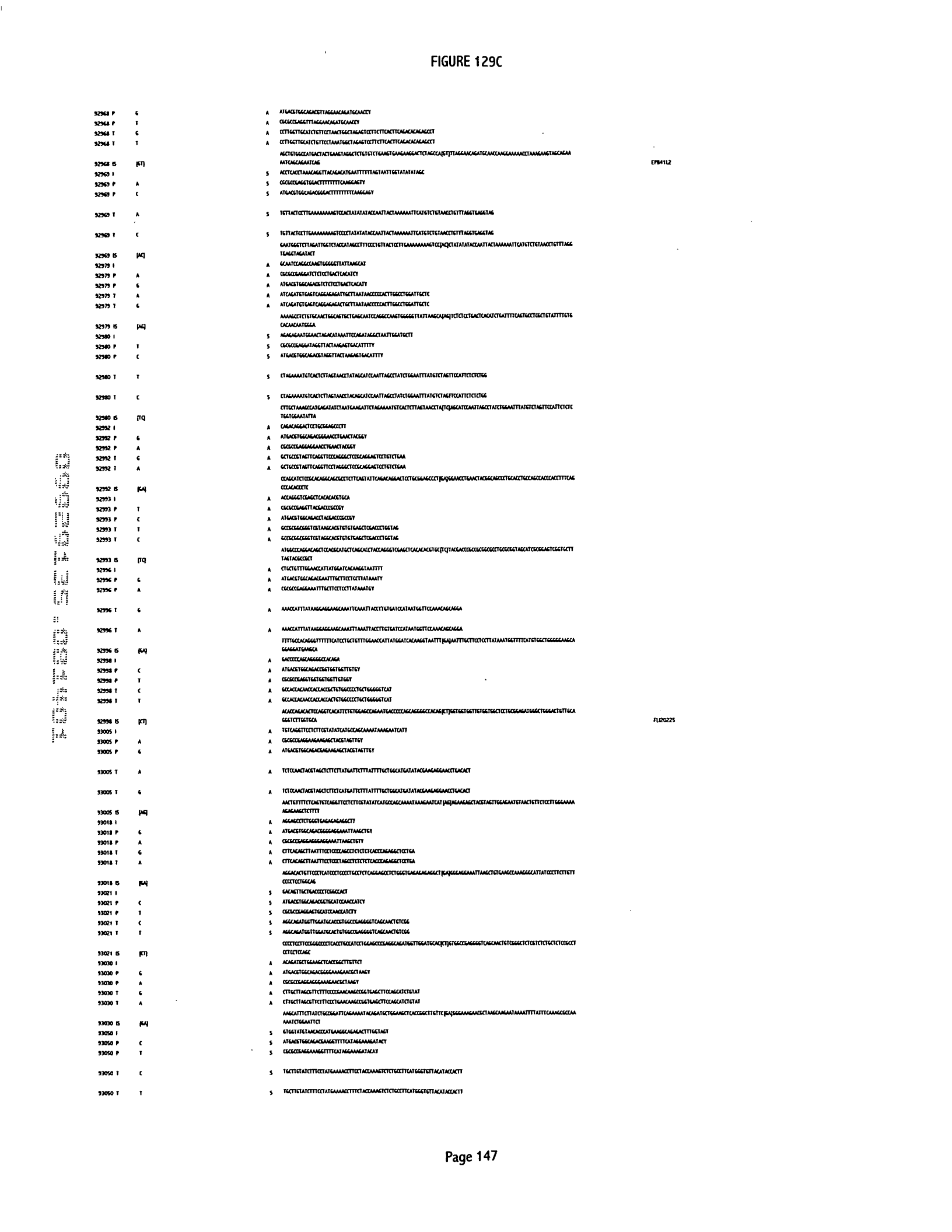
FIGURE 129C





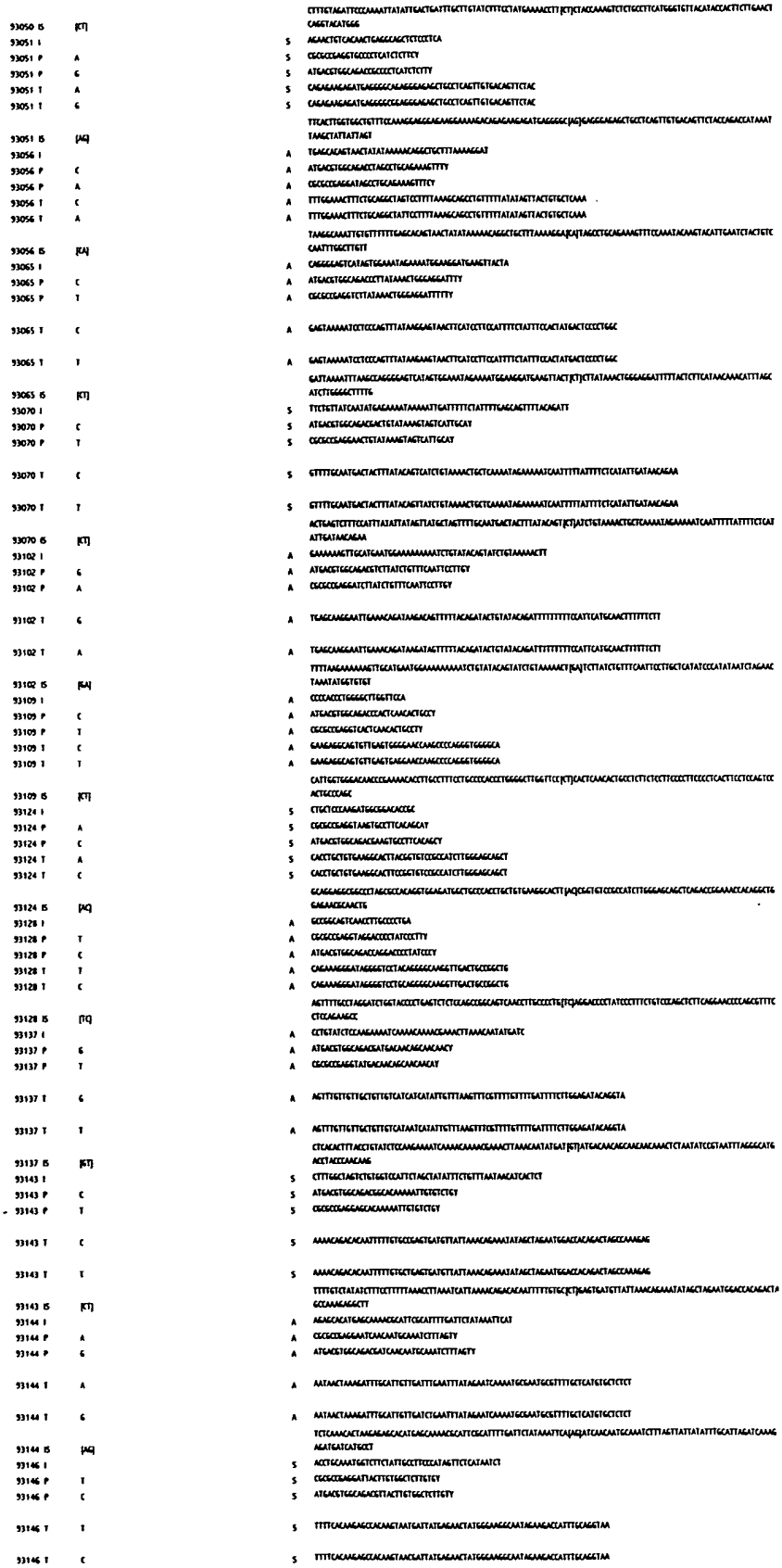
Docket No. 10020.0001.PCUS00

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92836 I		A	GAACTCAATACTGGCGCTGTGGCTGTT
92836 P	A	A	CGCGCCGAGGATTTTAGAGAGTGTCTAGTGGY
92836 P	G	A	ATGAGGTGGCAGAGGTTTTAGAGAGTGTCTAGTGGY
92836 T	A	A	AGCGCCACTAGACACTCTCTAAAATACAGCCACAGCGCCAGTATTGGGTTCCA
92836 T	G	A	AGCGCCACTAGACACTCTCTAAAACACAGCCACAGCGCCAGTATTGGGTTCCA
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92841 P	C	S	ATGAGGTGGCAGACGGAAGGCCTTTTTCAAGTY
92841 P	T	S	CGCGCCGAGGAGAAGCCTTTTTCAAGTCY
92841 T	C	S	AAAGGACTTGAAAAAGGCCTTCCGGGGAAGGTGAACCCAATGCTATGGGACGAA
92841 T	T	S	AAAGGACTTGAAAAAGGCCTTCTGGGGAAGGTGAACCCAATGCTATGGGACGAA
92841 IS	(CT)		AAAGCATATAAAGCCTGCTGAAAGGCTCCACAAGGTGAAAAGGACTTGAAAAAGCCCTTC(CT)GGGGAAGGTGAACCCAATGCTATGGGACGAAGCAGATGGCAGATA AGACAGCTAGCAGAT
92842 I		S	GCTGCTGAGTCTTAGCTTATTCTCAAAGGGCAAAAAAAAGACATTTCA
92842 P	G	S	ATGAGTGGCAGACCATCTGCTAGCTGTCTTATCY
92842 P	A	S	CGCGCCGAGGTATCTGCTAGCTGTCTTATCTY
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92842 T	A	S	TGGGAGATAAGACAGCTAGCAGATAGAAATGTCTTTTTTTTGCCCTTTGAGAATAAGCTAAGACTCAGCAGCTG
92842 IS	(GA)		GGGGAAGGTGAACCCAATGCTATGGCACGAAGCAGATGGGAGATAAGACAGCTAGCAGAT(GA)GAAATGTCTTTTTTTTGCCCTTTGAGAATAAGCTAAGACTCAGCA GCTGTCACTAGGCAA
92847 I		S	CGACCTCCCGAGGCAGCAGACAGCT
92847 P	C	S	ATGACGTGGCAGACGCCGCCCTCTTACCY
92847 P	T	S	CGCGCCGAGACTCCCCTCTTACCY
92847 T	C	S	TGCAGGTAAGAGGGCGGCGCTGTCTCTCCTCCCTCGGCAGGTCGAA
92847 T	T	S	TGCAGGTAAGAGGGCGGTGCTGTCTCTCCTCCCTCGGCAGGTCGAA
92847 IS	(CT)		AGTGCCATGAGTGGGTGTGCGAGACCTACGACGGGAGCACCTGTGCAGGTAAGAGGGCGG(CT)GCTGTCTCCTCCCTCGGCAGGTCGAAACTCCTCTCTGGGAATTTCTG CCACTCCCTAGAA
92854 I		S	CTTCCCCGCTCCCCGGCTCCC
92854 P	C	S	ATGAGGTGGCAGACGGGAAGAGAGACGCGAY
92854 P	A	S	CGCGCCGAGGTGGAAGAGACGCGACT
92854 T	C	S	CTGGGTCGCGTCTCTTCCCGGAGCCGGGGAGCGGGGCAAGAG
92854 T	A	S	CTGGGTCGCGTCTCTTCCAGCAGCCGGGCAGCGGGGCAAGAG
92854 IS	(CA)		TTCGCAGCCCCAGCGCCTCCTCGCTCAGCGCCGGCTCCCCGCCTGGGTCGCGTCTCTTCC(CA)GGAGCCGGGGAGCGGGGCAAGAGGCTGCGTCCCCCGAGGACACGCGCGG CGGCCCTGGGGT
92877 I		S	GTTCCATCACCTGTGGCCAGTGAGGGAT
92877 P	C	S	ATGACGTGGCAGACGAAGCCATTTTGAGGTAATAGY
92877 P	T	S	CGCGCCGAGAAAGCCATTTTGAGGTAATAGY
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92877 T	T	S	ATACCTATTACCTCAAAATGGCTTTTCCCTCACTGGCCACAGGTGATGGAACCA
92877 IS	(CT)		ACCTATCATGGTGGCACTTTAGGCAGCAGATGCTAGATACCTATTACCTCAAAATGGCTT(CT)TCCCTCACTGGCCACAGGTGATGGAACCAGCCCTGGAAGGCACAGGC AAAGAGGGGAAGA
92892 I		A	CCCTCTCTCTACCCTTGAGTACCTCTCAGTACCTTGTTTT
92892 P	A	A	CGCGCCGAGGATCACAGTAATTCCTTTTTCTTCY
92892 P	G	A	ATGACGTGGCAGACGTCACAGTAATTCCTTTTTCTTCY
92892 T	A	A	TCAGGAAGAAAAAGGAATTACTGTGATAAACAAGGTACTGAGAGGTACTCAAGGGTAAGAGAGAGGGGT
92892 T	G	A	TCAGGAAGAAAAAGGAATTACTGTGACAAACAAGGTACTGAGAGGTACTCAAGGGTAAGAGAGAGGGGT
92892 IS	(AG)		AGGTCAGCATTCCTTGCTAACCCCTCTCTCTTACCCTTGAGTACCTCTCAGTACCTTGTTT(AG)TCACAGTAATTCCTTTTTCCTTCCTGATAGGTTCTACGGACTCTGCTGCT AACCCCAGTGG
92893 I		S	GCAAAGACTGTGTGGTCCCCGGGACCT
92893 P	C	S	ATGACGTGGCAGACGCCCTCCTCAAATCTGY
92893 P	T	S	CGCGCCGAGGACCCTCCTCAAATCTGGY
92893 T	C	S	GGACCCAGATTTGAGGAGGGCGGTCCCGGGGACACACAGTCTTTGCAG
92893 T	T	S	GGACCCAGATTTGAGGAGGCTGGTCCCGGGGACACACAGTCTTTGCAG
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92914 I		A	CTAAGTGGATCCTGGAGGTGATAGTAAGAATTGCGGGT
92914 P	G	A	ATGACGTGGCAGACGAGCGCGGCTCTAT
92914 P	A	A	CGCGCCGAGGAAGCGCGGCTCTAGT
92914 T	G	A	TGAGCTAGAGCCGGCTCCCCGCAATTCTTACTATCACCTCCAGGATCCACTTAGCC
92914 T	A	A	TGAGCTAGAGCCGGCTTCCCGCAATTCTTACTATCACCTCCAGGATCCACTTAGCC
92914 IS	(GA)		ACTTTTTTTTTCACTGCGACAGGCTAAGTGGATCCTGGAGGTGATAGTAAGAATTGCGGG(GA)AGCGCGGCTCTAGCTCAGCTGGGAGCTTCTGGTGCCGGTGAGGAG ACCATGAAGCCACC
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92919 P	C	S	ATGACGTGGCAGACGGGAGGCAGTGTCCY
92919 P	T	S	CGCGCCGAGGAGAGGCAGTGTCCY
92919 T	C	S	GCCTGGACACTGCCTCCCCCAGGCTCATCGTGGACAGTCAGGAGTGGA
92919 T	T	S	GCCTGGACACTGCCTCCTCCAGGCTCATCGTGGACAGTCAGGAGTGGA
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92939 I		A	CTTGGTGACAGTGGGGCCAGGGTCA
92939 P	C	A	ATGACGTGGCAGACGGCAGTATCTGAGAGCY
92939 P	T	A	CGCGCCGAGGTGGCAGTATCTGAGAGCY
92939 T	C	A	AGCTGCTCTCAGATACTGCCGACCCTGGCCCCACTGTCACCAAGGG
92939 T	T	A	AGCTGCTCTCAGATACTGCCAGACCCTGGCCCCACTGTCACCAAGGG
92939 IS	(CT)		GCAGGCCTACATACCCCAGCAAGGCCTTGGGCCTCCCTTGGTGACAGTGGGGCCCAGGGTC(CT)GGCAGTATCTGAGAGCAGCTGGGATGTACTGGGCCTGGAGAAGGT GCTTGGTTGTGGGA
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92955 P	A	S	CGCGCCGAGGTCCCTCTGGCTATGGY
92955 P	C	S	ATGACGTGGCAGACGCCCTCTGGCTATGGY
92955 T	A	S	AGCCCCATAGCCAGAGGGATATCCCAGGTGCCTAGTGGTGCAGGCCC
92955 T	C	S	AGCCCCATAGCCAGAGGCTATCCCAGGTGCCTAGTGGTGCAGGCCC
92955 IS	(AC)		CCTCTTGACCTCTGCTCTTTCCTGGGCTGGAAGGAAGACCTCAGCCCCATAGCCAGAGGG(AC)TATCCCAGGTGCCTAGTGGTGCAGGCCCATGTGCCTGTACCTGCTGGA GATTTTCAGCAA
92966 I		A	TGCCCAGGGCAGACTGAGGCAGCA
92966 P	C	A	ATGACGTGGCAGACCGGCAACACAAGAGCT
92966 P	T	A	CGCGCCGAGGTGGCAAGACAAAGAGCY
92966 T	C	A	GCTAGCTCTTTGTCTTGCCGCCTGCCTCAGTCTCCCCTGGGCAGC
92966 T	T	A	GCTAGCTCTTTGTCTTGCCAGCTGCCTCAGTCTCCCCTGGGCAGC
92966 IS	(CT)		CAACACCAAGAAGTGAATGAGGCTGCTGCCCCAGCTGCCCAGGGGAGACTGAGGCAGC(CT)GGCAAGACAAAGAGCTACCTTACTCAGCTCCACCTCCTGTGGACACC TCTTTCTGCCTTA
92968 I		A	GCTCTGTGTCTGAAGTGAAGAAGGACTCTAGCCAC



92968 P G A ATGACGTGGCAGACGTTAGGAACAGATGCAACCY
92968 P T A CGCGCCGAGGTTTAGGAACAGATGCAACCY
92968 T G A CCTTGGTTGCATCTGTTCCTAACTGGCTAGAGTCCTTCTTCACTTCAGACACAGAGCCT
92968 T T A CCTTGGTTGCATCTGTTCCTAAATGGCTAGAGTCCTTCTTCACTTCAGACACAGAGCCT
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92969 P C S ATGACGTGGCAGACGGGACTTTTTTTTCAAGCAGY
92969 T A S TGTTACTCCTTGAAAAAAAAGTCCACTATATATACCAATTACTAAAAAATTCATGTCTGTAACCTGTTTAGGTGAGGTAG
92969 T C S TGTTACTCCTTGAAAAAAAAGTCCCCTATATATACCAATTACTAAAAAATTCATGTCTGTAACCTGTTTAGGTGAGGTAG
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92979 P G A ATGACGTGGCAGACGTCTCTCCTGACTCACATT
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92979 T G A ATCAGATGTGAGTCAGGAGAGACTGCTTAATAACCCCCACTTGGCCTGGATTGCTC
92979 IS [AC] AAAAGCCTCTGTGCAACTGGCAGTGCTCAGCAATCCAGGCCAAGTGGGGGTTATTAAGCA[AC]TCTCTCCTGACTCACATCTGATTTTCAGTGCCTGGCTGTATTTTGTG CACAACAATGGGA
92980 I S AGAGAGAATGGAACTAGACATAAATTCCAGATAGGCTAATTGGATGCTT
92980 P T S CGCGCCGAGGATAGGTTACTAAGAGTGACATTTY
92980 P C S ATGACGTGGCAGACGTAGGTTACTAAGAGTGACATTTY
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92980 T C S CTAGAAAATGTCACTCTTAGTAACCTACAGCATCCAATTAGCCTATCTGGAATTTATGTCTAGTTCCATTCTCTCTGG
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92992 I A CAGACAGGACTCCTGCGGAGCCCTT
92992 P G A ATGACGTGGCAGACGGGAACCTGAACTACGGY
92992 P A A CGCGCCGAGGAGGAAACCTGAACTACGGY
92992 T G A GCTGCCGTAGTTCAGGTTCCCAGGGCTCCGCAGGAGTCCTGTCTGAA
92992 T A A GCTGCCGTAGTTCAGGTTCCTAGGGCTCCGCAGGAGTCCTGTCTGAA
92992 IS [GA] CCAGCATCTCCGCACAGGCAGCGCTCTTCAGTATTCAGACAGGACTCCTGCGGAGCCCT[GA]GGAACCTGAACTACGGCAGCCCTGCACCTGCCAGCCACCCACTTTCAG CCCACACCCTC
92993 I A ACCAGGGTCGAGCTCACACACGTGCA
92993 P T A CGCGCCGAGGTTACGACCCGCCGY
92993 P C A ATGACGTGGCAGACCTACGACCCGCCGY
92993 T T A GCCGCGGCGGGCTGTAGGCACGTGTGTGAGCTCGACCCTGGTAG
92993 T C A GCCGCGGCGGGCTGTAGGCACGTGTGTGAGCTCGACCCTGGTAG
92993 IS [TC] ATGGCCCAGGACAGCTCCAGGCATGCTCAGCACCTACCAGGGTCGAGCTCACACACGTGC[TC]TACGACCCGCCGCGGCGGCTGCGCGGTAGCATCGCGGAGTCGGTGCTT TAGTACGCCGCT
92996 I A CTGCTGTTTGGAACCATTATGGATCACAAGGTAATTTT
92996 P G A ATGACGTGGCAGACGAATTTGCTTCCTCCTTATAAATY
92996 P A A CGCGCCGAGGAAATTTGCTTCCTCCTTATAAATGY
92996 T G A AAACCATTTATAAGGAGGAAGCAAATTCAAATTACCTTGTGATCCATAATGGTTCCAAACAGCAGGA
92996 T A A AAACCATTTATAAGGAGGAAGCAAATTTAAATTACCTTGTGATCCATAATGGTTCCAAACAGCAGGA
92996 IS [GA] TTTTGCCACAGGGTTTTTTCATCCTGCTGTTTGCAACCATTATGGATCACAAGGTAATTT[GA]AATTTGCTTCCTCCTTATAAATGGTTTTCATGTGGCTGGGGGAAGCA GGAGCATGAAGCA
92998 I A GACCCCAGCAGGGGCCACAGA
92998 P C A ATGACGTGGCAGACGGGTGGTGGTTGTGY
92998 P T A CGCGCCGAGGTGGTGGTGGTTGTGGY
92998 T C A GCCACACAACCACCACCGCTGTGGCCCCTGCTGGGGGGTCAT
92998 T T A GCCACACAACCACCACCACTGTGGCCCCTGCTGGGGGGTCAT
92998 IS [CT] ACACCAGACACTCCAGGTCACATTCTGTGGAGCCAGAATGACCCCCAGCAGGGGCCACAG[CT]GGTGGTGGTTGTGGTGGCTCCTCGCGGAGATGGGCTGGGACTGTTGCA GGGTCTTGGTGCA FL20225
93005 I A TGTCAGGTTCCTCTTCGTATATCATGCCAGCAAAATAAAGAATCATT
93005 P A A CGCGCCGAGGAAGAAGAGCTACGTAGTTGY
93005 P G A ATGACGTGGCAGACGAGAAGAGCTACGTAGTTGY
93005 T A A TCTCCAACTACGTAGCTCTTCTTATGATTCTTTATTTTGCTGGCATGATATACGAAGAGGAACCTGACACT
93005 T G A TCTCCAACTACGTAGCTCTTCTCATGATTCTTTATTTTGCTGGCATGATATACGAAGAGGAACCTGACACT
93005 IS [AG] AACTGTTTTCTCAGTGTCAGGTTCCTCTTCGTATATCATGCCAGCAAAATAAAGAATCAT[AG]AGAAGAGCTACGTAGTTGCGACAATGTAACTGTTCTCCTTGGCAAAA AGAGAAGCTCTTTT
93018 I A AGGAGCCTCTTGGCTGACAGAGAGGCTT
93018 P G A ATGACGTGGCAGACGGGCAGGAAATTAAGCTGY
93018 P A A CGCGCCGAGGAGGCAGGAAATTAAGCTGTY
93018 T G A CTTCAGAGCTTAATTTCTCCCCAGCCTCTCTCTCACCCAGAGGCTCCTGA
93018 T A A CTTCAGAGCTTAATTTCTCCCTAGCCTCTCTCTCACCCAGAGGCTCCTGA
93018 IS [GA] AGCAGCACTGTTCCCTCATCCCTCCCCTGCCTCTCAGGAGCCTCTGGGTGAGACAGAGGCT[GA]GGCAGCAGGAAATTAAGCTGTGAAGCCAAAGGGCATTATCCCTTCTTGTT CCCCTCCTGGCAG
93021 I S GACAGTTGCTGACCCCTCGGCCACT
93021 P C S ATGACGTGGCAGACGTGCATCCAACCATCY
93021 P T S CGCGCCGAGGAGTGCATCCAACCATCY
93021 T C S AGGCAGATGGTTGGATGCACCTGGCCGAGGGGTCAGCAACTGTCGG
93021 T T S AGGCAGATGGTTGGATGCACTGTGGCCGAGGGGTCAGCAACTGTCGG
93021 IS [CT] CCCCTCCTCCCGGCCCCTCACCTGCCATCCTCGAGCCCCAGGCAGATGGTTGGATGCAC[CT]GTGCCCGAGGGGTCAGCAACTGTCGGGCCTCTCGTCTCTCGCTCCTCGCCT CCTCCTCCAGC
93030 I A ACAGATGCTGGAAGCTCACCGGCTTGTTCT
93030 P G A ATGACGTGGCAGACGGGCAAAGAACGCTAAGT
93030 P A A CGCGCCGAGGAGGCAAAGAACGCTAAGT
93030 T G A CTTGCTAGCGTTCTTTCCCCGAACAAGCCGGTGAGCTTCCAGCATCTGTAT
93030 T A A CTTGCTAGCGTTCTTTCCCTGAACAAGCCGGTGAGCTTCCAGCATCTGTAT
93030 IS [GA] AAGCATTCTTATCTGCCGAATTCAGAAAATACAGATGCTGGAAGCTCACCGGCTTGTTC[GA]GGGAAAGAACGCTAAGCAAGAATAAAATTTTATTTCAAAGCGCCAA AAATCTGGAATTCT
93050 I S GTGGTATGTAACACCCATGAAGGCAGAGACTTTGGTAGT
93050 P C S ATGACGTGGCAGACGAAGGTTTTCATAGGAAAGATACY
93050 P T S CGCGCCGAGGAAAGGTTTTCATAGGAAAGATACAY
93050 T C S TGCTTGTATCTTTCCTATGAAAACCTTGCTACGAAAGTCTCTGCCTTCATGGGTGTTACATACCACTT
93050 T T S TGCTTGTATCTTTCCTATGAAAACCTTTCTACGAAAGTCTCTGCCTTCATGGGTGTTACATACCACTT

FIGURE 129C



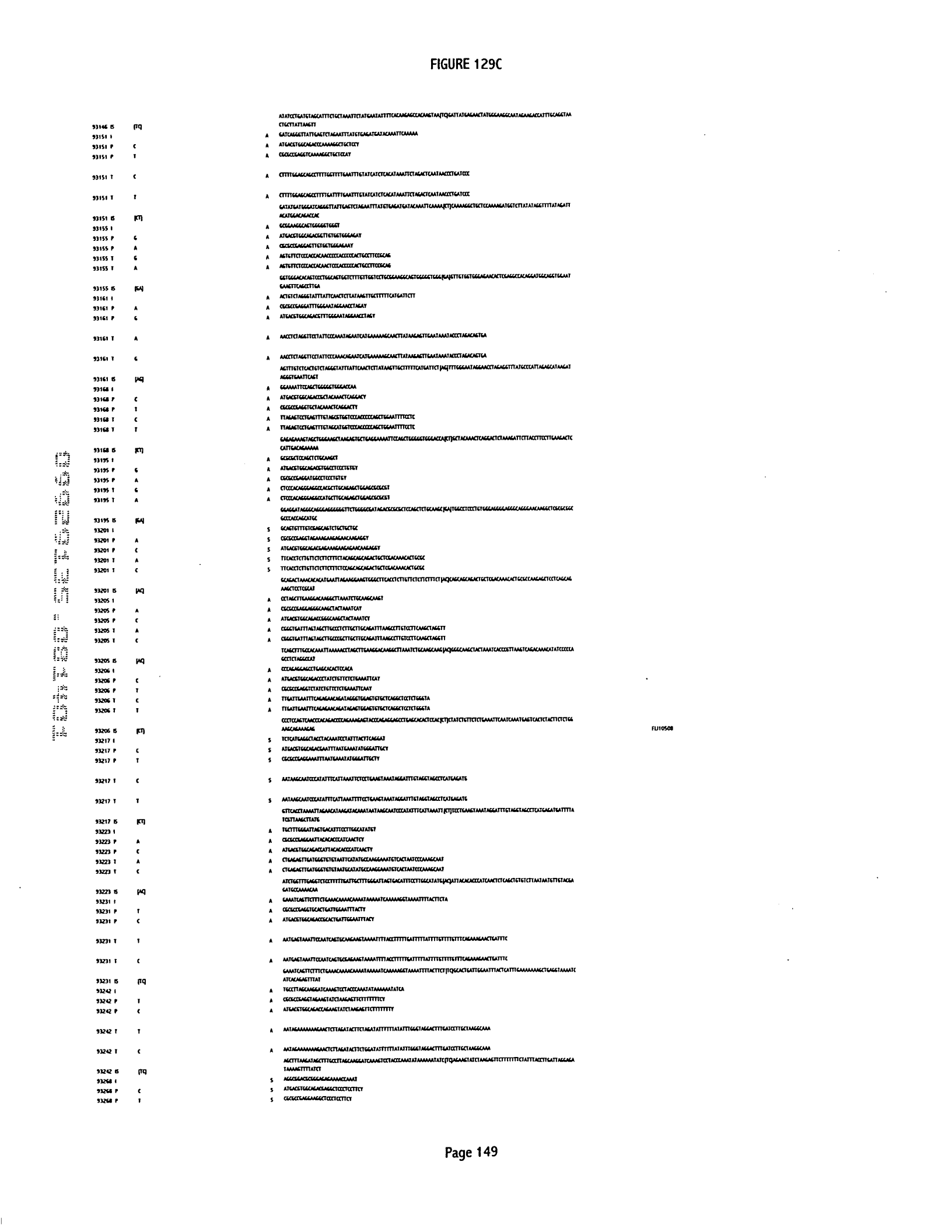
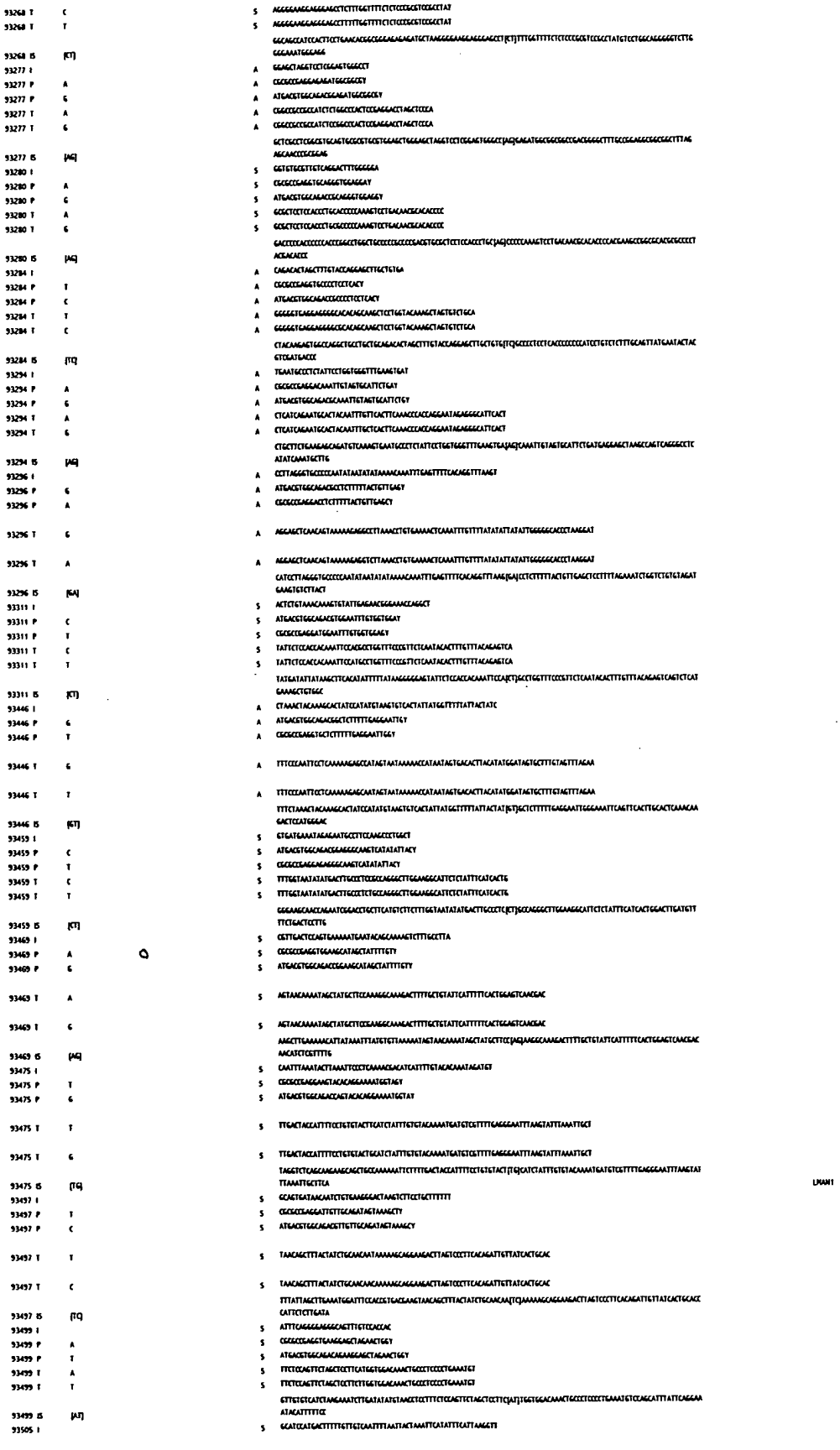
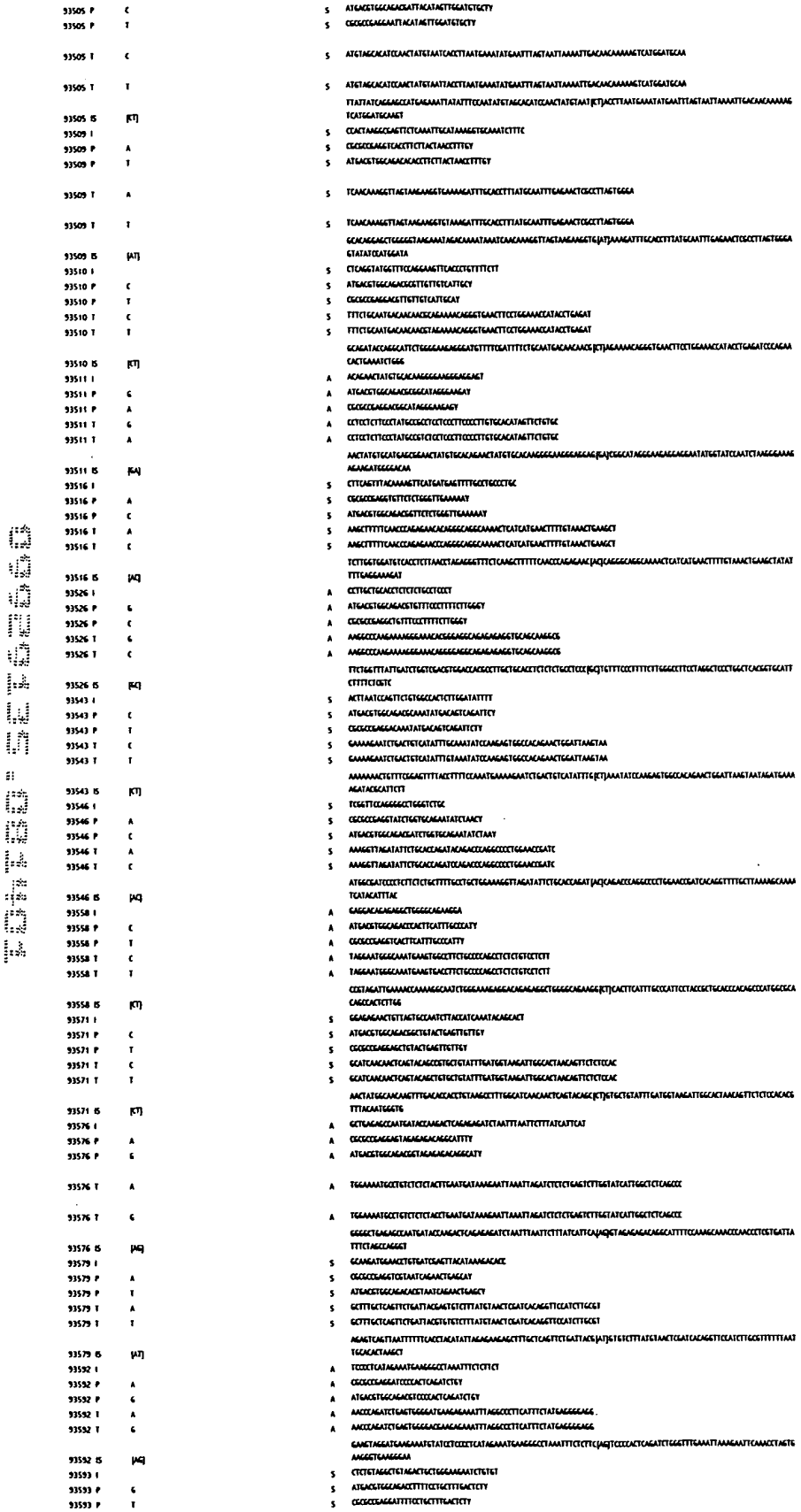
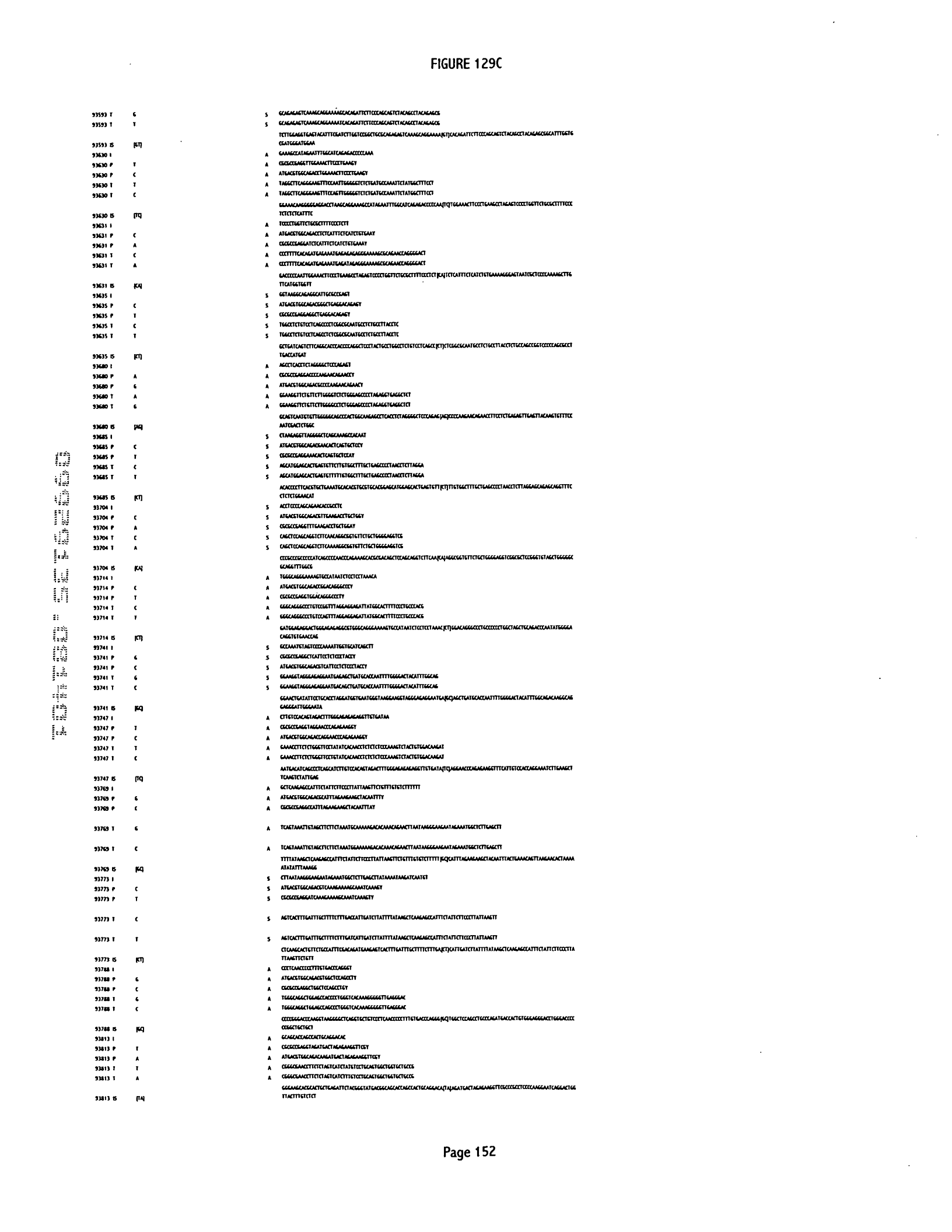


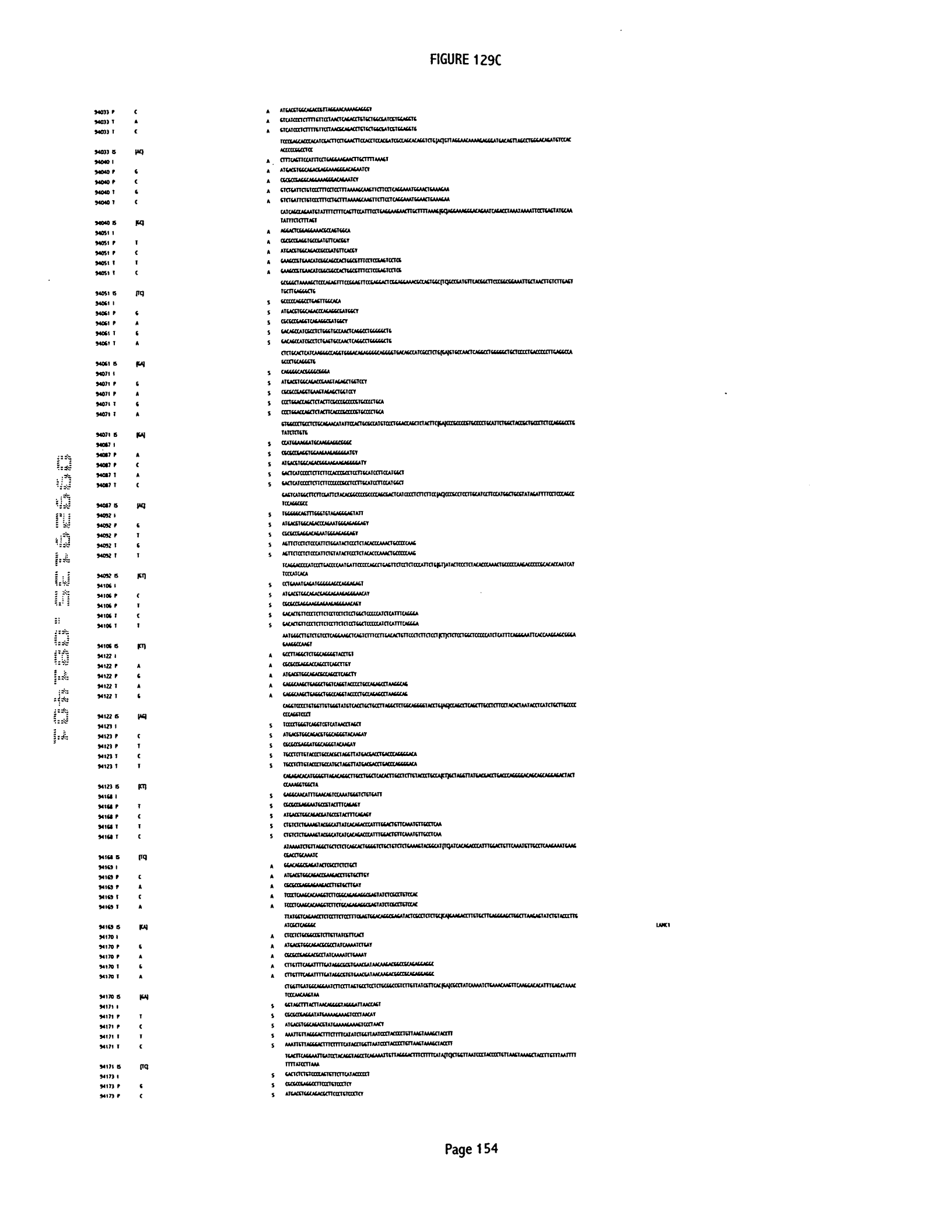
FIGURE 129C

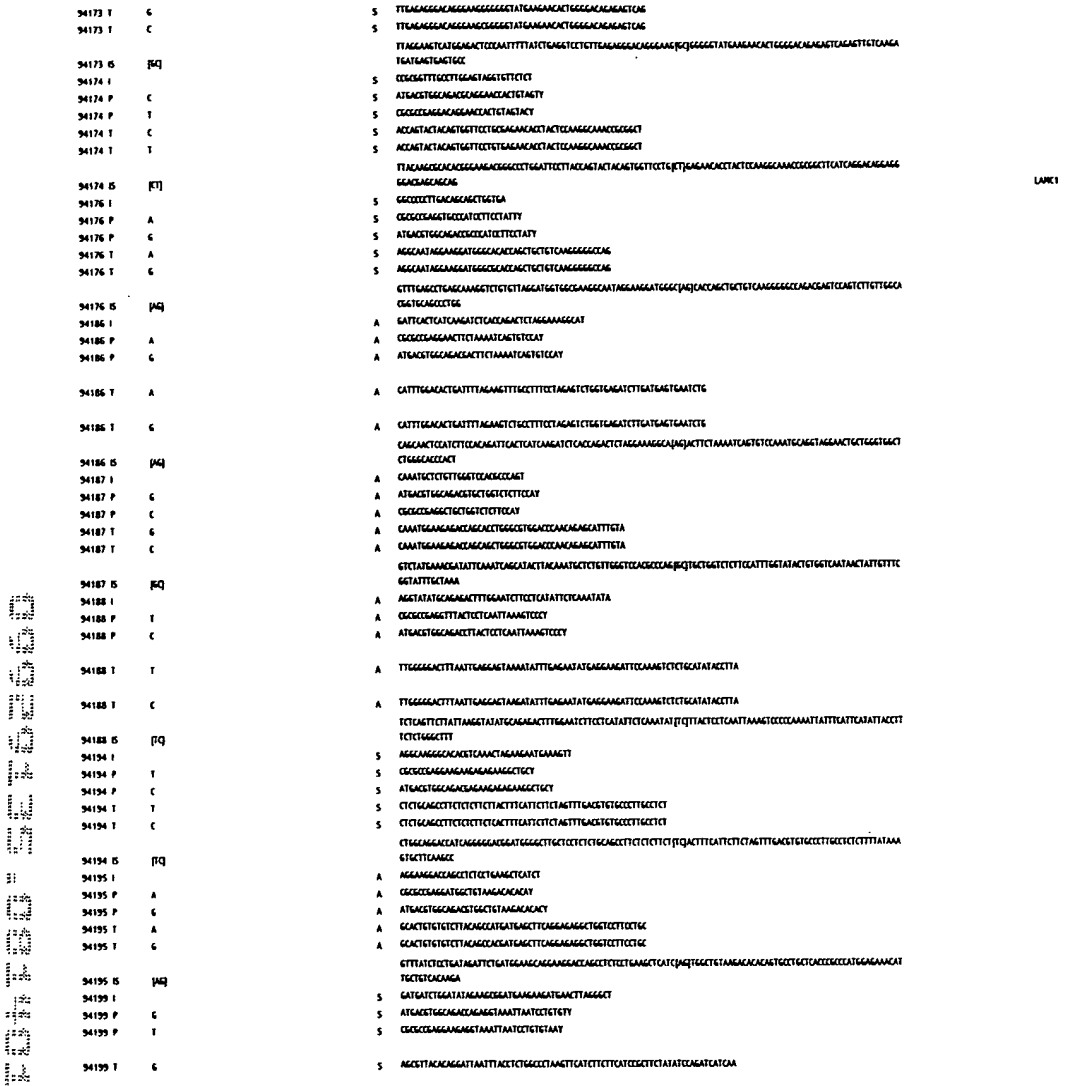






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93818 T   T                S  CCTCTCCAGCACAGGGATTTACTTGGGTTCAGATAAATAGCAGCAGCAGCTAGGCCC
93818 T   C                S  CCTCTCCAGCACAGGGATTCACTTGGGTTCAGATAAATAGCAGCAACAGCTAGGCCC
93818 IS  [TC]                TCTGGTGTCGTTCCCACGACTCCCCAGGAGCCTCAGAGCGCCTCTCCAGCACAGGGATT[TC]ACTTGGGTTCAGATAAATAGCAGCAGCAGCTAGGCCCCACCCCTCCAG
                              GCCCACCCCTC
93832 I                    S  GCAGATGCATAGGAAGCCTCAGCCCCAT
93832 P   T                S  CGCGCCGAAGAAACTCCAAGGGCTGCY
93832 P   C                S  ATGACGTGGCAGACGACTCCAAGGGCTGCY
93832 T   T                S  TACAGCAGCCCTTGGAGTTTGGGGCTGAGGCTTCCTATGCATCTGCCC
93832 T   C                S  TACAGCAGCCCTTGGAGTCTGGGGCTGAGGCTTCCTATGCATCTGCCC
93832 IS  [TC]                AACAGTACAAGCCCATCCTCCCCACCACCCTCACTGAGCTCATACAGCAGCCCTTGGAGT[TC]TGGGGCTGAGGCTTCCTATGCATCTGCCCCAGTACCTCCCTTCCAGCAC
                              TGATGTAGGCA
93834 I                    S  GCACCATCTTCCTGCACACAGACAGCACTCA
93834 P   G                S  ATGACGTGGCAGACCTCCTCAGCTGACCAGY
93834 P   A                S  CGCGCCGAGGTTCCTCAGCTGACCAGY
93834 T   G                S  TGGGCTGGTCAGCTGAGGAGGAGCTGCTCTGTGTGCAGGAAGATGGTGCTG
93834 T   A                S  TGGGCTGGTCAGCTGAGGAAGAGCTGCTCTGTGTGCAGGAAGATGGTGCTG
93834 IS  [GA]                CCTCTCTCCCTGCAGTGGAAAGAGTGGACCCGTGGTGTCCCTGGGCTGGTCAGCTGAGGA[GA]CAGCTGCTCTGTGTGCAGGAAGATGGTGCTGTACTGGTTTATGGGCT
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93837 P   C                S  ATGACGTGGCAGACGGTGTGCCTTTGGAGY
93837 P   T                S  CGCGCCGAGGAGTGTGCCTTTGGAGTY
93837 T   C                S  TACCACTCCAAAGGCACACCGGGCTGGGGCCCCCAAACCCAG
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93852 P   C                S  ATGACGTGGCAGACGTTTATTTACTTATATATTTTTTGCTTTGGY
93852 T   T                S  AAACCAAAGCAAAAATATATAAGTAAATAAATATACCAAACAAATCAACTAATTAAAAAAAAAGGGAAGAAGAAATGAAGTCAACATTCTT
93852 T   C                S  AAACCAAAGCAAAAATATATAAGTAAATAAACATACCAAACAAATCAACTAATTAAAAAAAAAGGGAAGAAGAAATGAAGTCAACATTCTT
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93924 T   T                A  GGTGGAAAAACCTGTCCACTTTAATTTTTTTGTTGGAACAGAGTGCAGATGGAATTTAAAGCCTAAAGCATT
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93953 I                    A  CCAGTGATATAGAAACCTTGCAAACTAGTTTGCAGCA
93953 P   C                A  ATGACGTGGCAGACCGCAGAAGACCGATGY
93953 P   T                A  CGCGCCGAGGTGCAGAAGACCGATGTY
93953 T   C                A  CAGGACATCGGTCTTCTGCGGCTGCAAACTAGTTTGCAAGGTTTCTATATCACTGGAA
93953 T   T                A  CAGGACATCGGTCTTCTGCAGCTGCAAACTAGTTTGCAAGGTTTCTATATCACTGGAA
93953 IS  [CT]                CAAACATGAAAGTTAATTCCATTTCCAGTGATATAGAAACCTTGCAAACTAGTTTGCAGC[CT]GCAGAAGACCGATGTCCTGTGCCCATGAGGTCTTTCTGTGTAATGAC
                              CGTAGGAGACTAC
93966 I                    S  CCTGCCGTGGGAGAACAAGGTGGCT
93966 P   T                S  CGCGCCGAGGAGTGCAGACATGCTCCY
93966 P   C                S  ATGACGTGGCAGACGATGCAGACATGCTCCY
93966 T   T                S  ACTGGGAGCATGTCTCCACTGCCACCTTGTTCTCCCACGGCAGGTG
93966 T   C                S  ACTGGGAGCATGTCTCCACCGCCACCTTGTTCTCCCACGGCAGGTG
93966 IS  [TC]                CCATCCATCAGTCAGTGCAAATGCCACCTCTTGGCTGGAAGCACTGGGAGCATGTCTCCAC[TC]GCCACCTTGTTCTCCCACGGCAGGTGCCACTGAGCTGGCACAGACCT
                              GTGGTCTGTGTC
93986 I                    S  GAAGATTCCAATAAATACACTGTATTTTGTAACTTGCAAATTTTTTTTCAAAGGC
93986 P   T                S  CGCGCCGAGGATAAATGAAATTATCAGGTTTCCAAY
93986 P   A                S  ATGACGTGGCAGACTTAAATGAAATTATCAGGTTTCCAAY
93986 T   T                S  TACTTTGGAAACCTGATAATTTCATTTATCCTTTGAAAAAAATTTGCAGTTACAAAATACAGTGTATTTTATTGGAATCTTCAT
93986 T   A                S  TACTTTGGAAACCTGATAATTTCATTTAACCTTTGAAAAAAATTTGCAGTTACAAAATACAGTGTATTTTATTGGAATCTTCAT
93986 IS  [TA]                TTTGTTGATCAAATAAATTGCAAACTGAGAATACTTTGGAAACCTGATAATTTCATTTA[TA]CCTTTGAAAAAAATTTGCAAGTTACAAAATACAGTGTATTTTATTG
                              GAATCTTCATTGCA
93991 I                    S  CAGACAGACTGACAAGGCCACCGAGTT
93991 P   C                S  ATGACGTGGCAGACGTGTGCCCCACCTY
93991 P   T                S  CGCGCCGAGGATGTGCCCCACCTGT
93991 T   C                S  ACAGCAGGTGGGGCACACACTCGGTGGCCTTGTCAGTCTGGTCTGTA
93991 T   T                S  ACAGCAGGTGGGGCMCATACTCGGTGGCCTTGTCAGTCTGGTCTGTA
93991 IS  [CT]                CAGCCTTCCTATTTCTCCTGGTAGCTGTGCAAGCTGATGGCTCACAGCAGGTGGGGCACAC[CT]ACTCGGTGGCCTTGTCAGTCTGGTCTGTAAGATAAAAGGTAATGTTT
                              ACGTTCCCAAATA
93998 I                    S  AAGCATTTCTAAAAGGCTCTTTTATCAGTGCCTTCACT
93998 P   C                S  ATGACGTGGCAGACAACCATTGATGGGTGY
93998 P   T                S  CGCGCCGAGGAAGCCATTGATGGGTGAY
93998 T   C                S  TCTTTCACCCATCAATGGGTCGTGAAGGCACTGATAAAAGAGCCTTTTAGAAATGCTTCT
93998 T   T                S  TCTTTCACCCATCAATGGGTTGTGAAGGCACTGATAAAAGAGCCTTTTAGAAATGCTTCT
93998 IS  [CT]                CCAGCATAGAAGCCATGCTATTTTAGTTCTTTGTAATCCCTCCTCACCCATCAATGGGT[CT]GTGAAGGCACTGATAAAAGAGCCTTTTAGAAATGCTTCTATTTGTTC
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94001 P   C                A  CGCGCCGAGGCAAAGCTTGCTCCGCY
94001 P   G                A  ATGACGTGGCAGACAAAGCTTGCTCCGCY
94001 T   C                A  GGGCGCGGAGCAAGCTTTCACCTTTGGAACTGGGCACCGCAGCCC
94001 T   G                A  GGGCGCGGAGCAAGCTTTCACCTTTGGAACTGGGCACCGCAGCCC
94001 IS  [CG]                GTTCAGGTTGCTCTGACCGCAGGGCAGATAATTGGGGCTGCGGTGCCCAGTTCCAAAGGT[CG]AAAGCTTGCTCCGCGCCGCCAGGGAGCTGGTCTAGCGCTGCAGTG
                              TTAACCCGAGCC
94007 I                    S  CCCATCACAGGGCTCCTGCACTAAA
94007 P   A                S  CGCGCCGAGGTGCCGTCAGTCCY
94007 P   G                S  ATGACGTGGCAGACGGCGTCCAGTCCY
94007 T   A                S  AGATGGACTGGACGGCATTGGTGCAGGAGCCCTGTGATGGGCC
94007 T   G                S  AGATGGACTGGACGGCGTTGGTGCAGGAGCCCTGTGATGGGCC
94007 IS  [AG]                GTGCTCCAACGCAGCTGGATGTGGGGCACCTCCAGGGCATTGCAGATGGACTGGACGGC[AG]TTGGTGCAGGAGCCCTGTGATGGGCCGAAGATCGCCACCACGCCCAG
                              TGCCAGCTGGTCA                                                                                                  6893
94033 I                    A  CCTCCACGATCGCCAGCACAGGTCTGT
94033 P   A                A  CGCGCCGAGGAGTTAGGAACAAACAGGGAT
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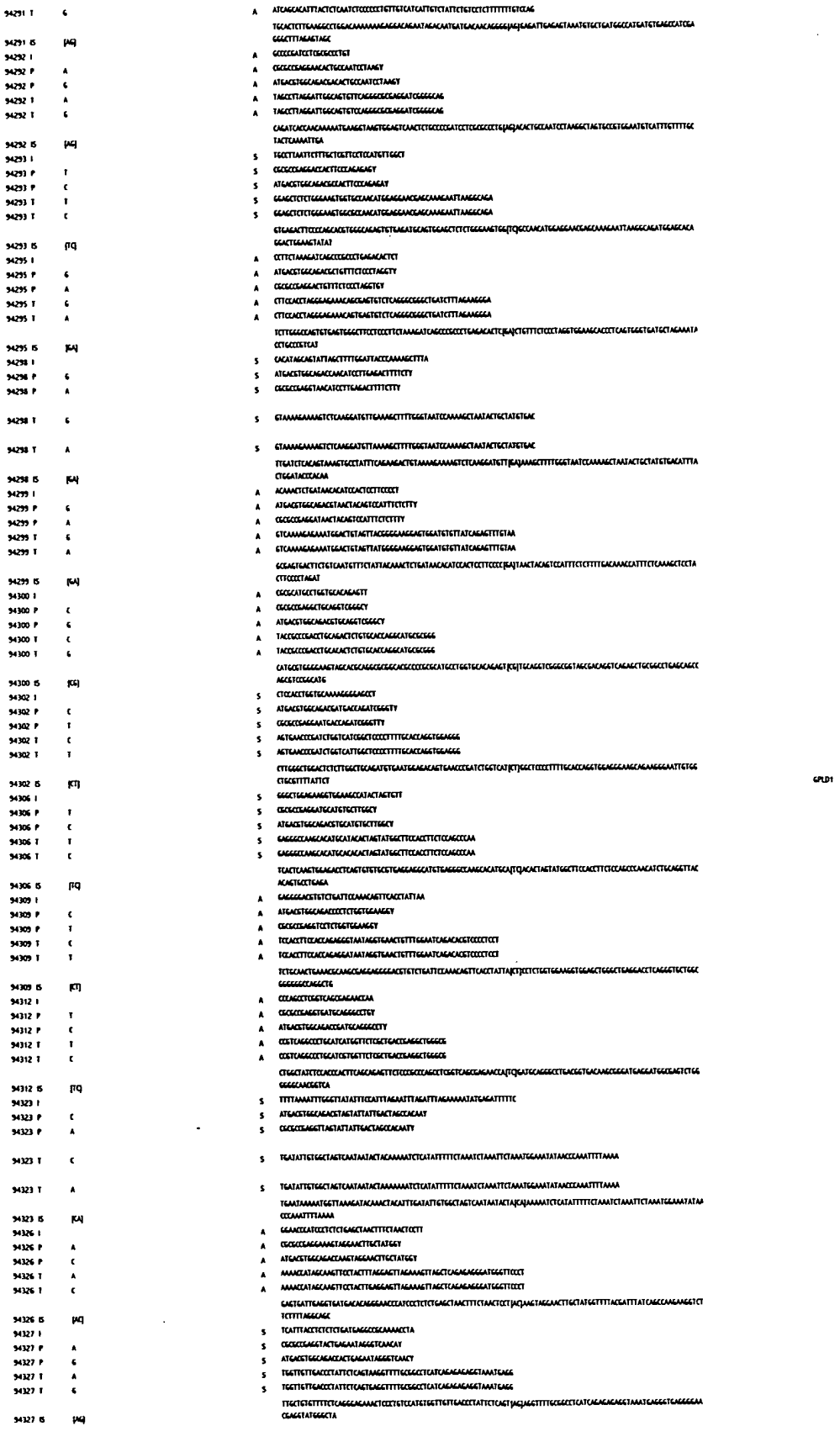




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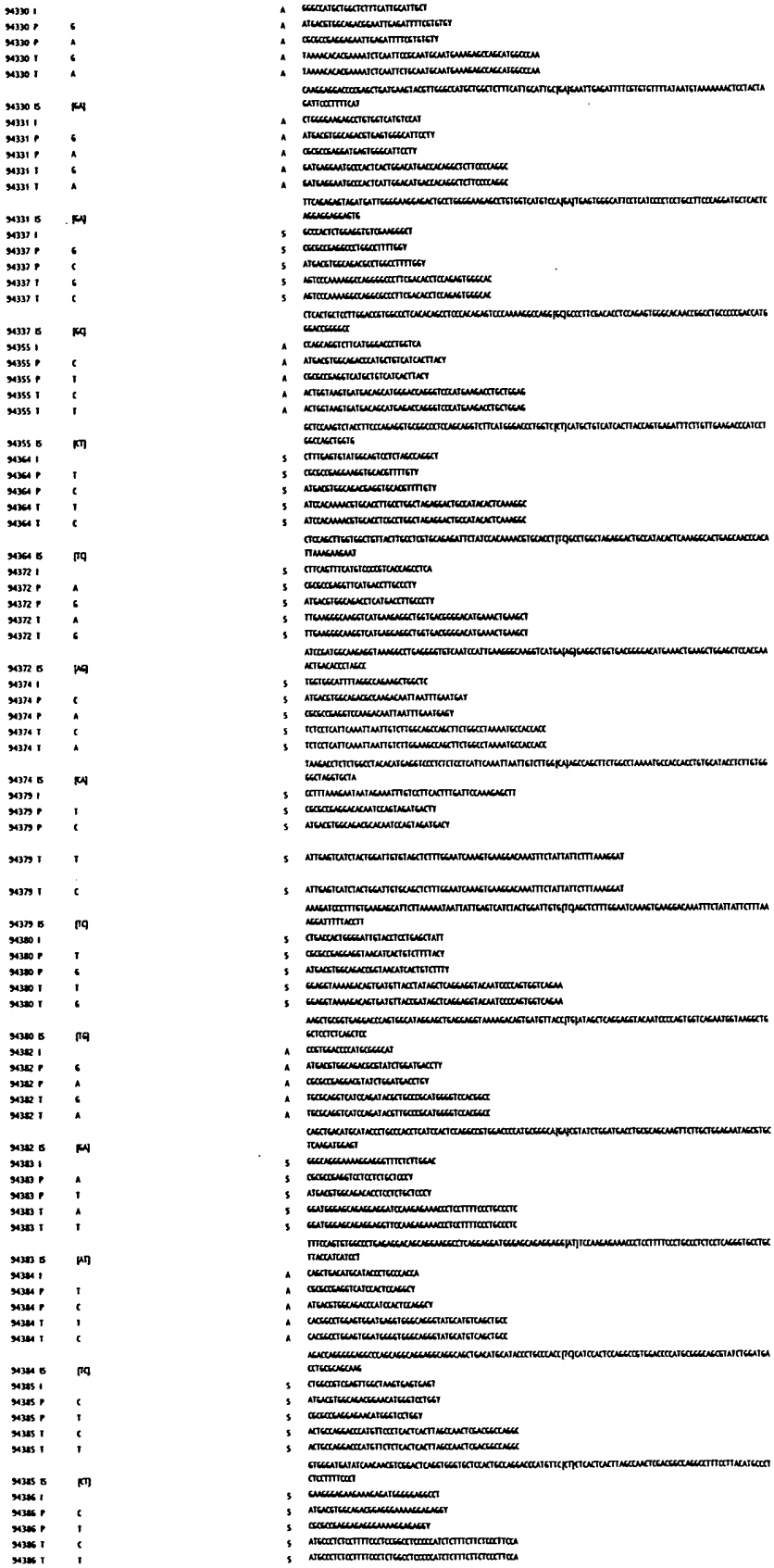


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FIGURE 129C

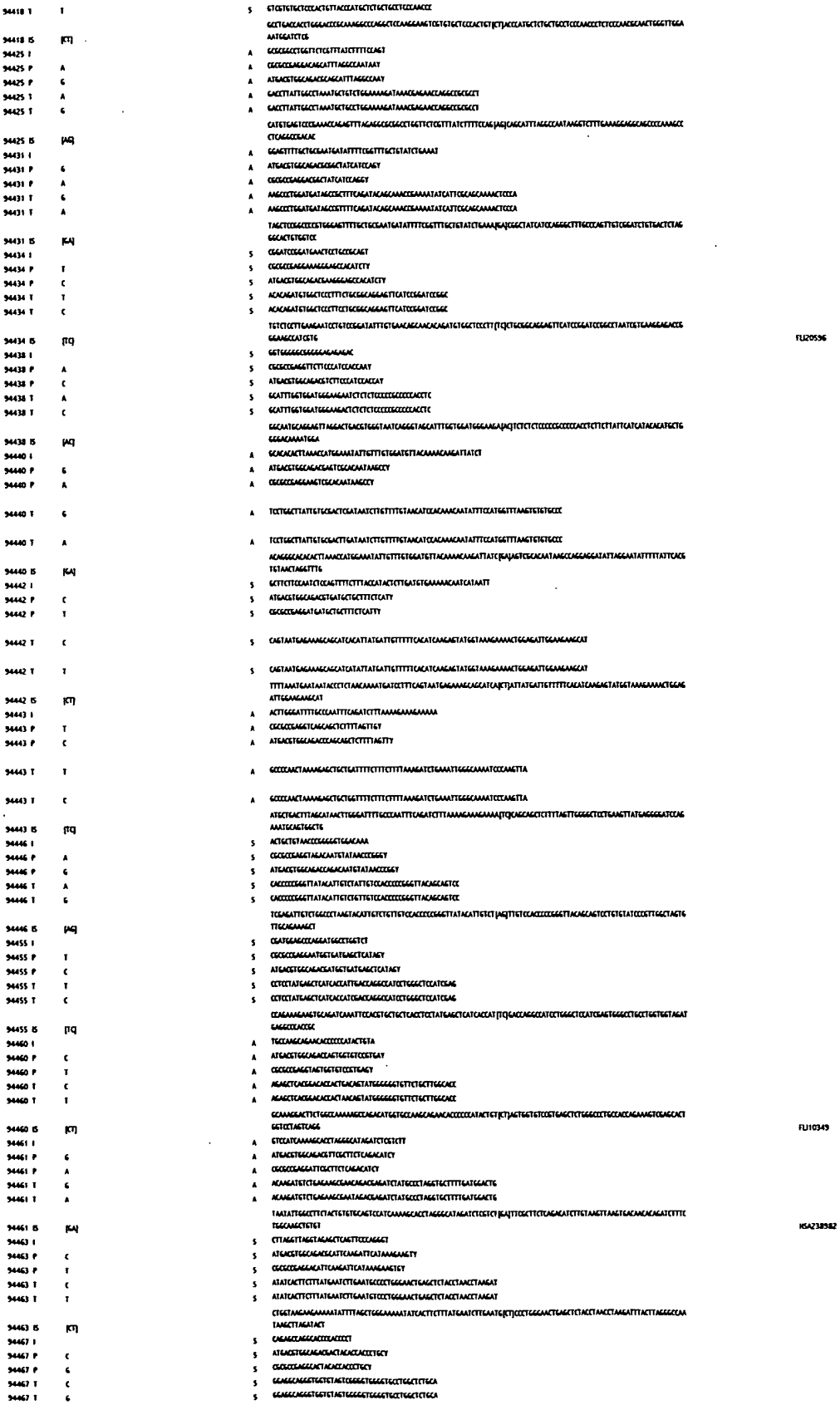






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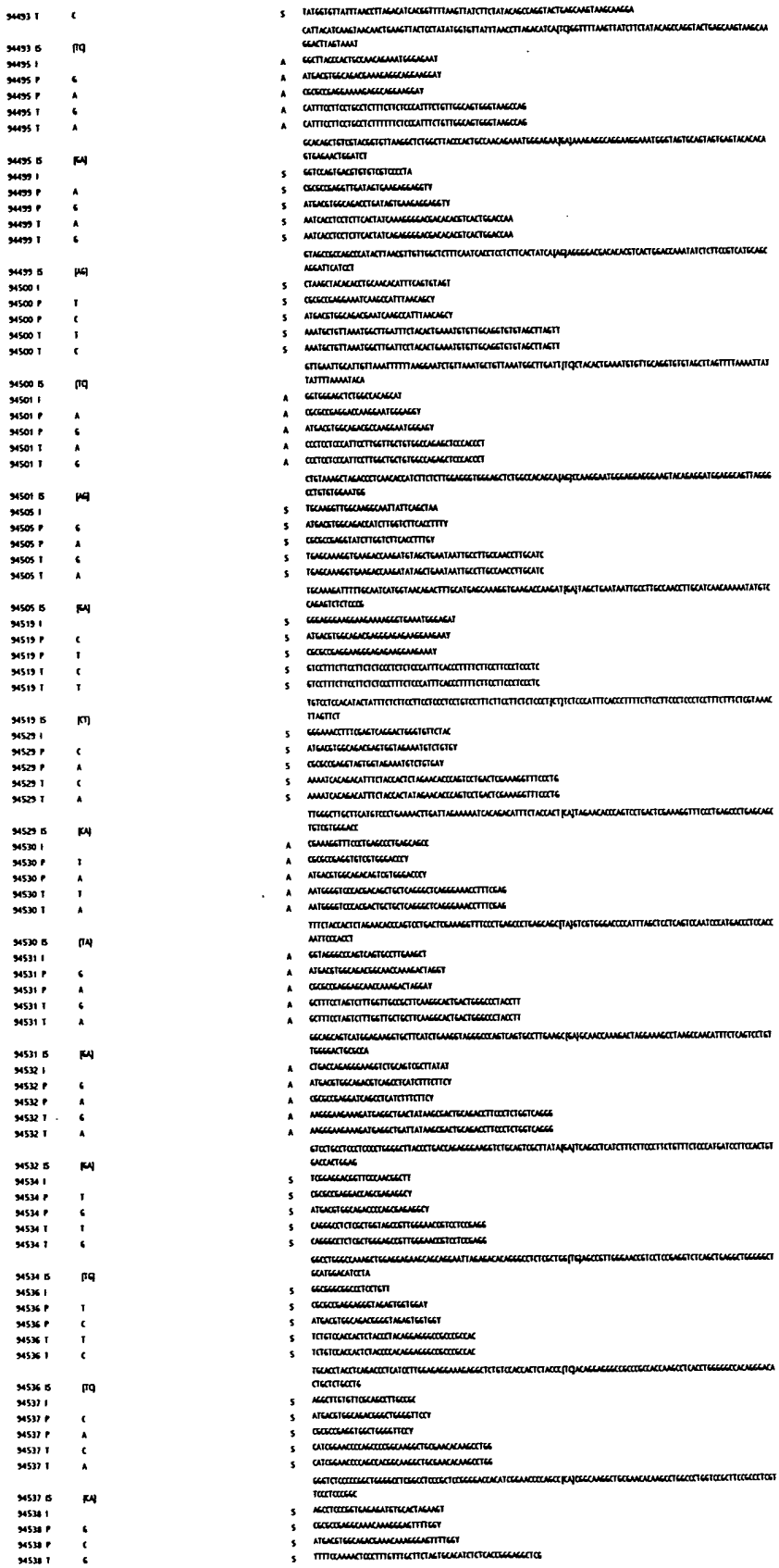
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94387	P	T	CGCGCCGAGGAGCAAGGTCACAGGATY
94387	P	G	ATGACGTGGCAGACCGCAAGGTCACAGGAY
94387	T	T	TGCCATCCTGTGACCTTGCTCGACGCTATGGCCTCCGGGATGTGGACG
94387	T	G	TGCCATCCTGTGACCTTGCGCGACGCTATGGCCTTCGGGATGTGGACG
			GCCCGCAGATCCCAATATCCTGAGCCTGAGTGGTAAGGTGCTGCCATCCTGTGACCTTGCJTQCGACGCTATGGCCTTCGGGATGTGGACGGTGAGGACCCTGGCACAGC
94387	IS	[TG]	AGTCAGCCTTGAC
94388	I		GGAGGAGGAGGATTAGATTCTCATTCCCACTCCTCAGATAA
94388	P	A	CGCGCCGAGGTCCTCACCTTGGCTGY
94388	P	G	ATGACGTGGCAGACCCCTCACCTTGGCTY
94388	T	A	TCTCCAGCCAAGGTGAGGATATCTGAGGAGTGGGAAATGAGAATCTAATCCTCCTCCTCCTG
94388	T	G	TCTCCAGCCAAGGTGAGGGTATCTGAGGAGTGGGAAATGAGAATCTAATCCTCCTCCTCCTG
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94389	P	T	CGCGCCGAGGATACCTGTTGTGCATCCTY
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94391	P	A	CGCGCCGAGGTAGGAACTGCAGACTCCY
94391	P	G	ATGACGTGGCAGACAGGAACTGCAGACTCY
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94392	P	T	ATGACGTGGCAGACACTGAACACTTACCCTTCCY
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94393	P	C	ATGACGTGCCAGACGGAGAGCTTATAGCAAAGY
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94393	T	C	AGACCTTTGCTATAACGGTCTCATCCTGCCTCAGCCCCTGGCCCC
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94395	IS	[TC]	GTCTTGCTCAGC
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94398	IS	[CT]	CCCATCCCAC
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94402	P	T	CGCGCCCAGCAGGCAGGGCCTGY
94402	P	C	ATGACGTGGCAGACGGGCAGGGCCTGY
94402	T	T	CACACAGGCCCTGCCTTGGTGGGGGCCTCCTTCCTAATGGGGG
94402	T	C	CACACAGGCCCTGCCCTGGTGGGGGCCTCCTTCCTAATGGGGG
			TCTGCCAGGATAACAAAGGGGGAAGAGCTGGGGTAGTCTTGTGGGTAGACACAGGCCCTGCCJTQJTGGTGGGGGCCTCCTTCCTAATGGGGGCACAGTTCCTCCCTGATGG
94402	IS	[TC]	GGGTGTGCCCAGT
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94404	P	A	CGCGCCGAGCTGAGCCGGGTAGAGAY
94404	P	G	ATGACGTGGCAGACCGAGCGGGTAGAGY
94404	T	A	TGGCTCTCTACCCGCTCAGTGCTGCTTAGGAAGCCCAAGTCGTCAGA
94404	T	G	TGGCTCTCTACCCGCTCGGTGCTGCTTAGGAAGCCCAAGTCGTCAGA
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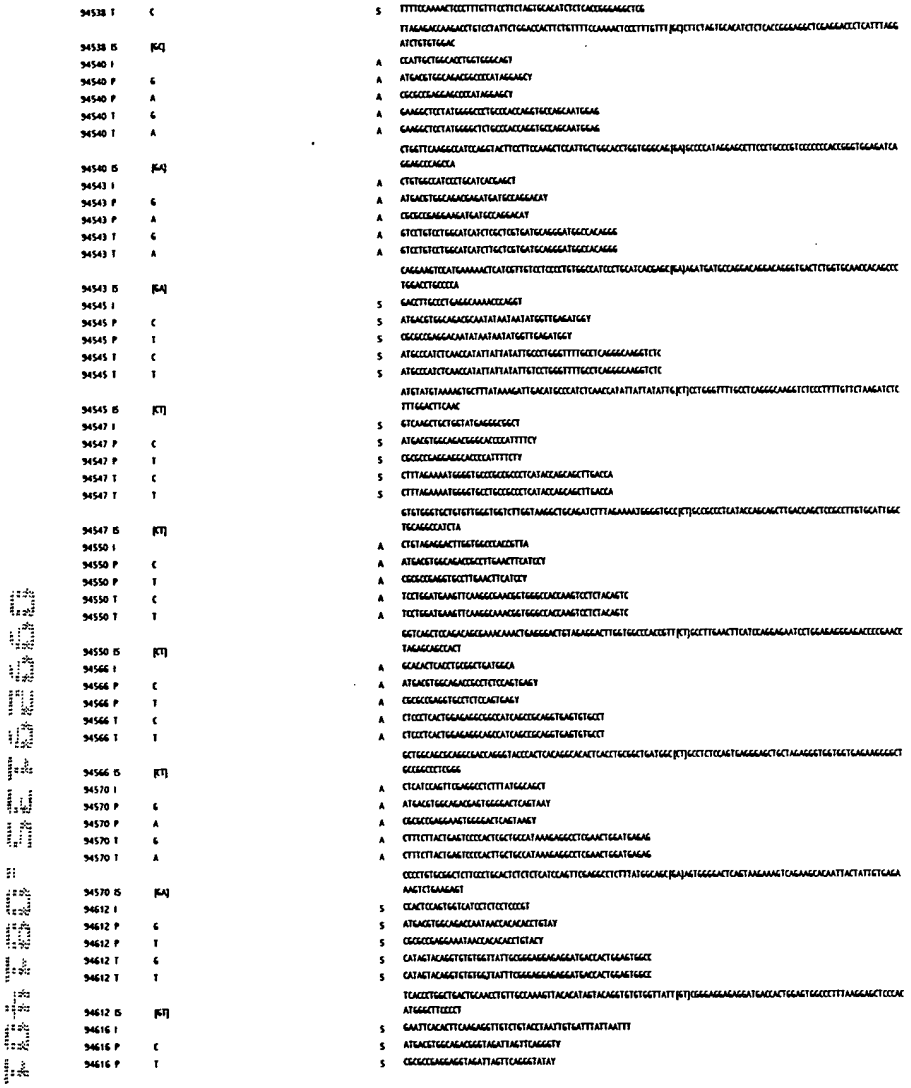


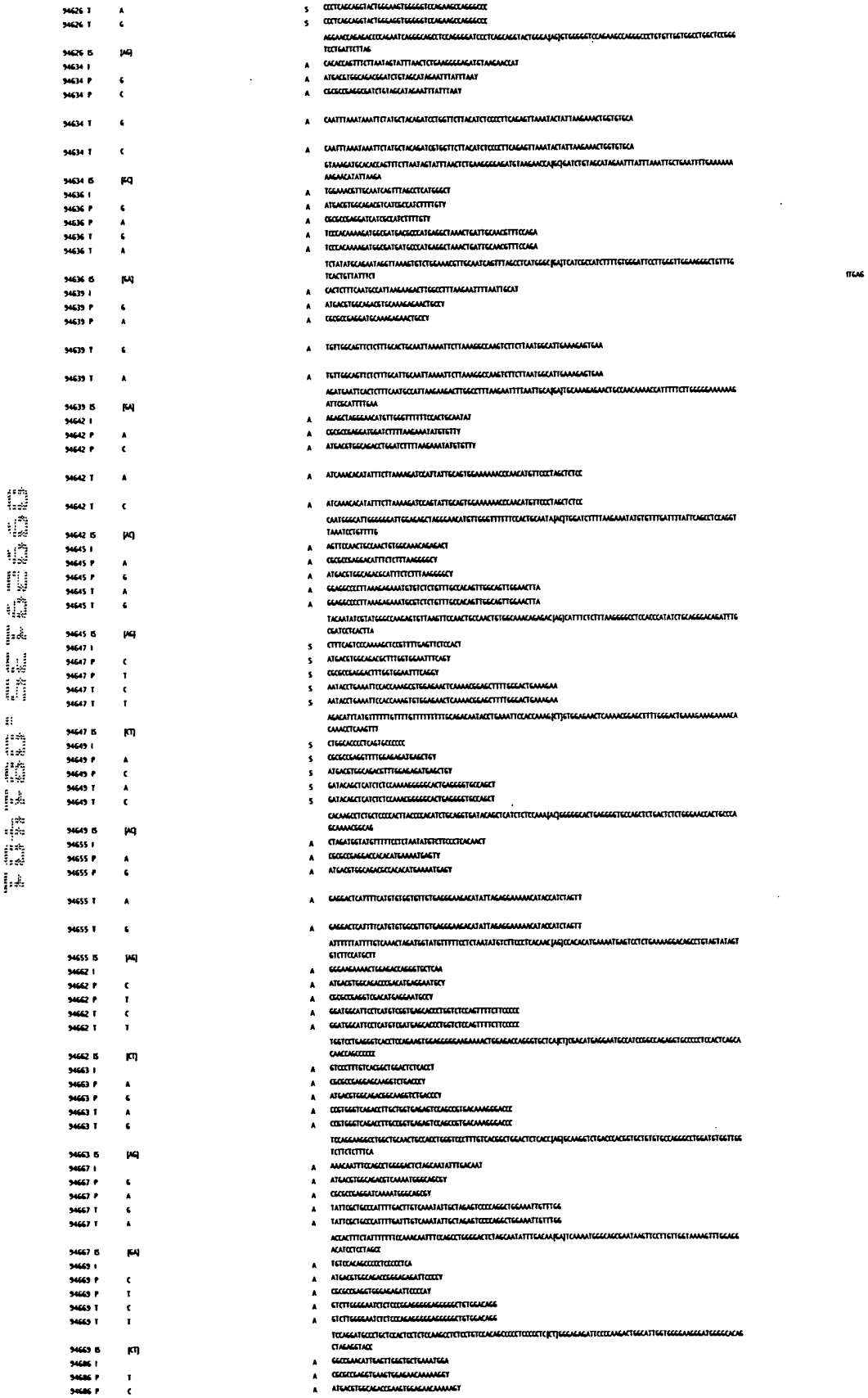


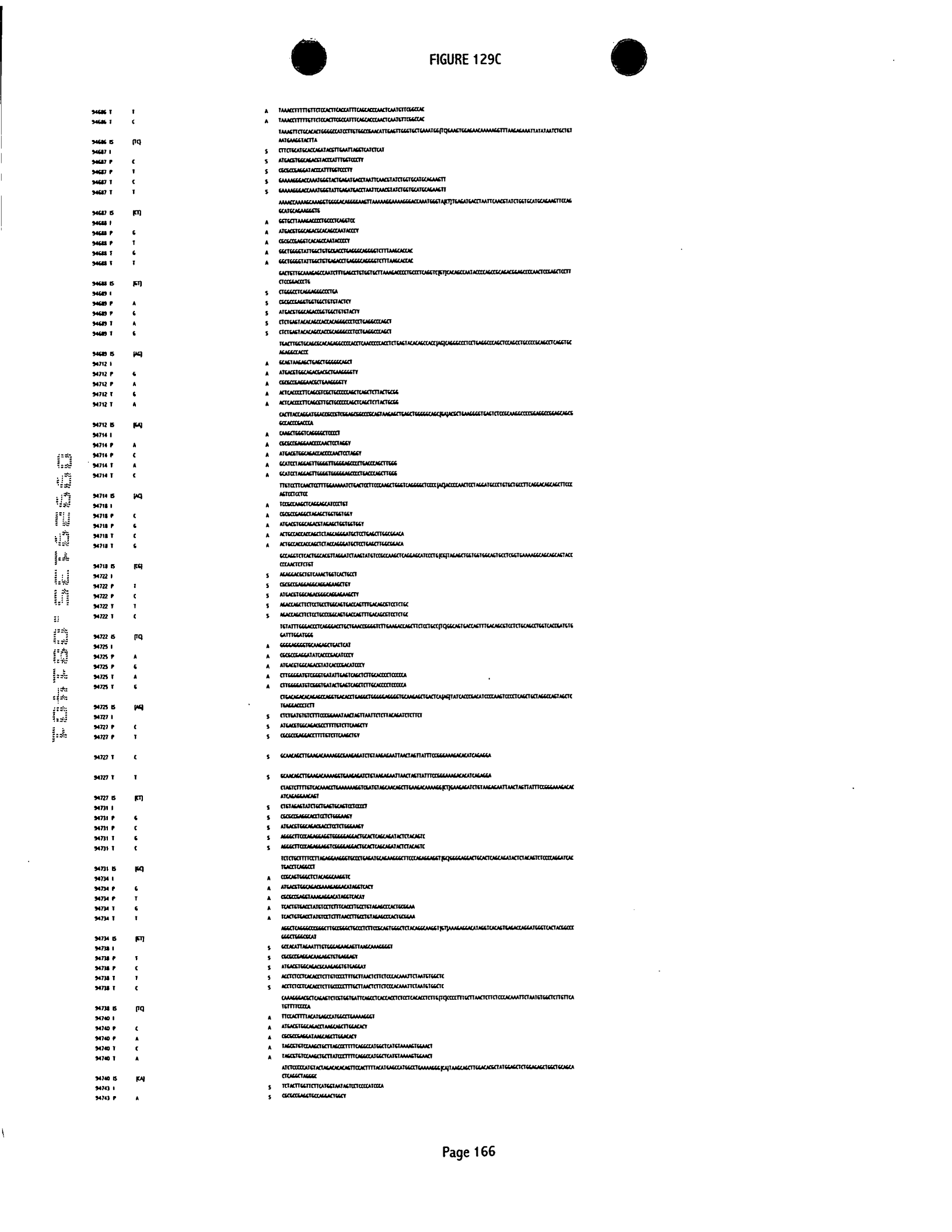
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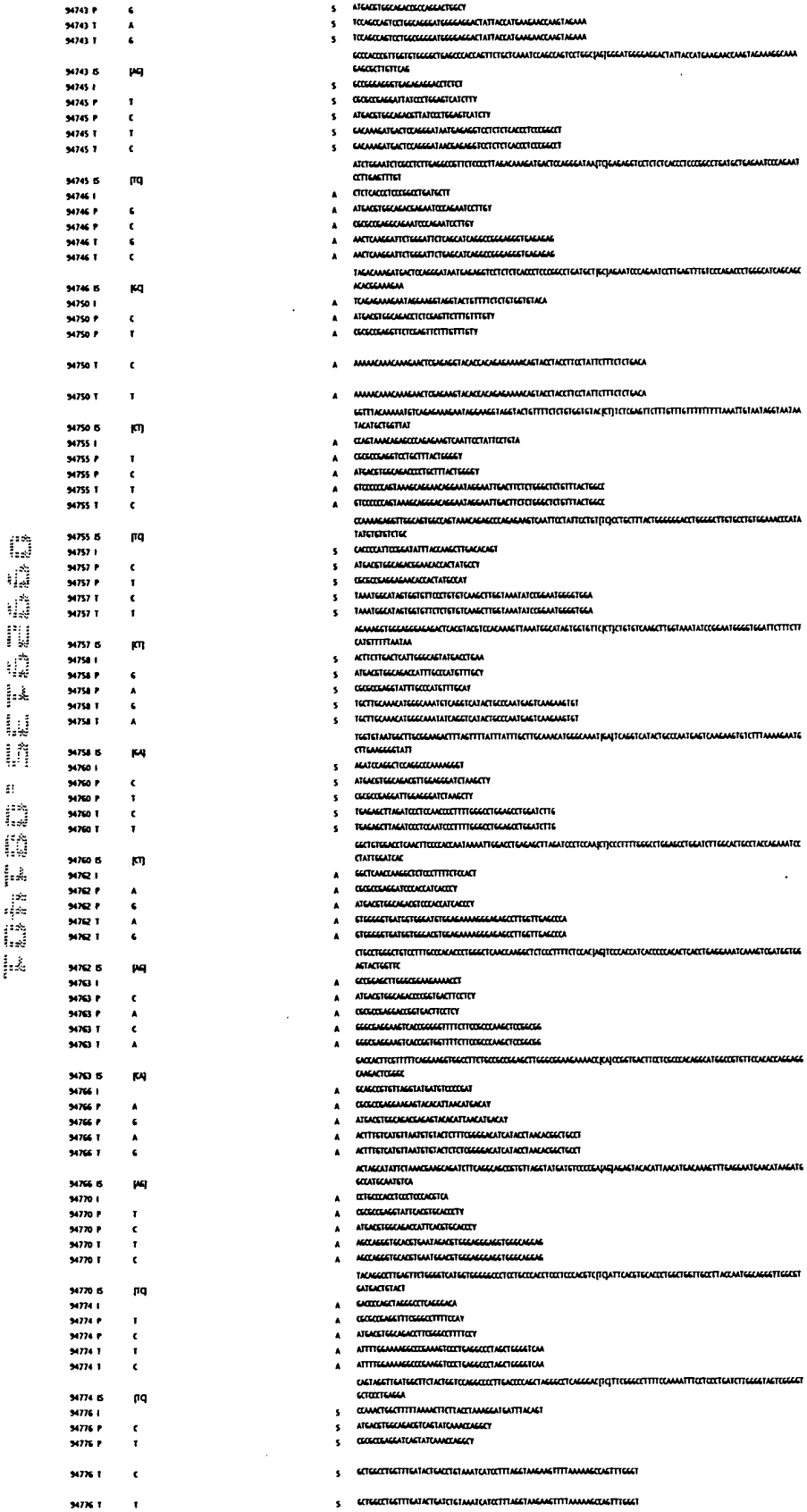
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94468 P	G	S	CGCGCCGAGGCCAGAGACCTGAGCATY	
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94490 IS	[CA]		ACCTGTCACCA	
94491 I		S	GGTCGTAATCATAGATCGCGGCCAGCGAAGATT	
94491 P	C	S	ATGACGTGGCAGACGCGCAGTCTCAGGTY	
94491 P	T	S	CGCGCCGAGGACGCAGTCTCAGGTY	
94491 T	C	S	ACACACGTGAGACTGCGCATCTTCGCTGCCCGCATCTATGATTACGACCCC	
94491 T	T	S	ACACACGTGAGACTGCGTATCTTCGCTGCCCGCATCTATGATTACGACCCC	
			CTGGGGCTGTGCCGGGGAAGTGCGTGCGTTCCTTCAGGAAGACACACAGCTGAGACTGCGJCTJATCTTCGCTGCCCGCATCTATGATTACGACCCCCTATATAAGGAGGC	
94491 IS	[CT]		GCTGCAAATGCTG	DI742C19.2
94493 I		S	CTTGCTTACTTGCTCAGTACCTGGCTGTATAGAAGATAACTTAAAACCT	
94493 P	T	S	CGCGCCGAGGATGATGTCTAAGGTTAAATAACACY	
94493 P	C	S	ATGACGTGGCAGACGTGATGTCTAAGGTTAAATAACACY	
94493 T	T	S	TATGGTGTTATTTAACCTTAGACATCATGGTTTTAAGTTATCTCTATACAGCCAGGTACTGAGCAACTAAGCAAGGA	

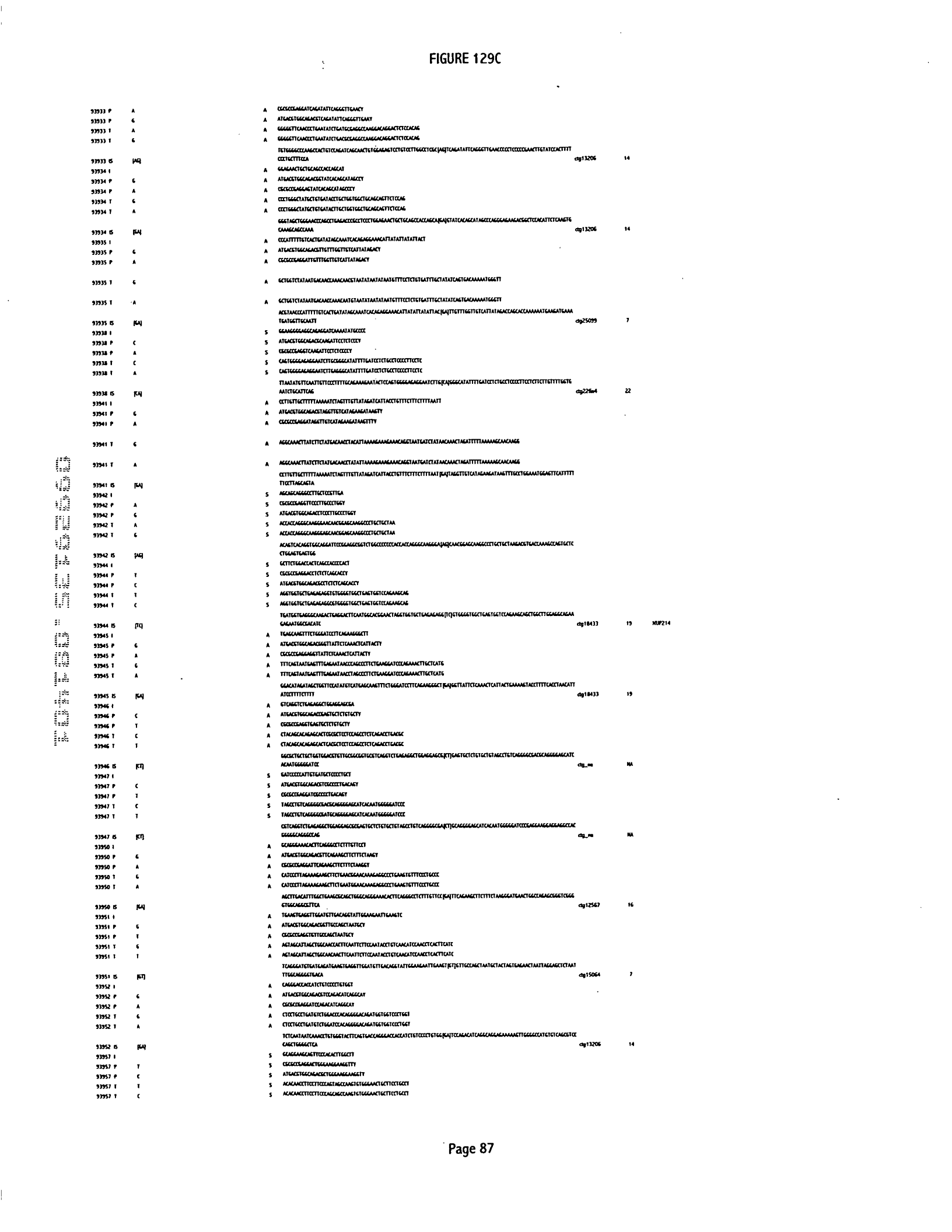


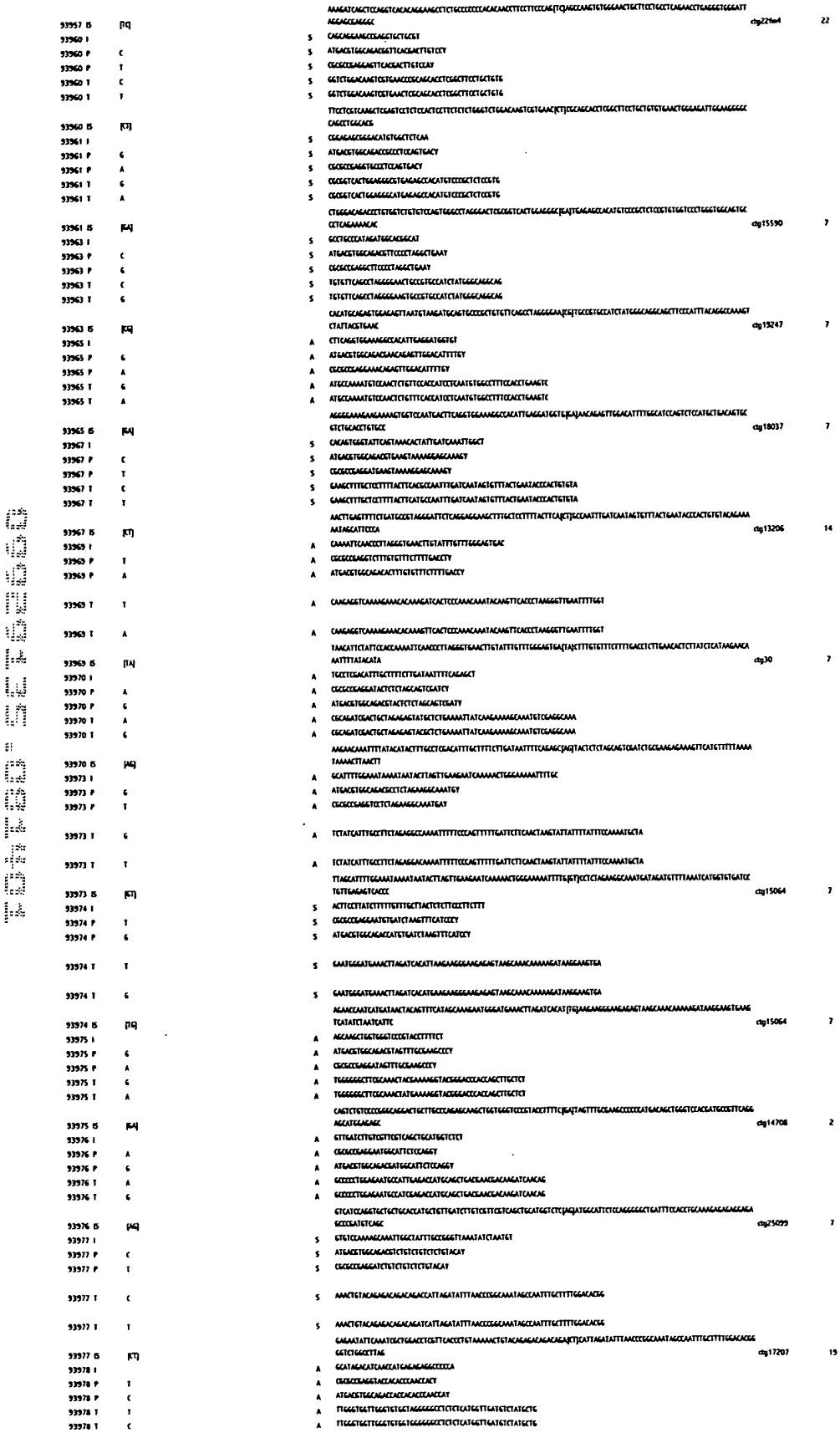


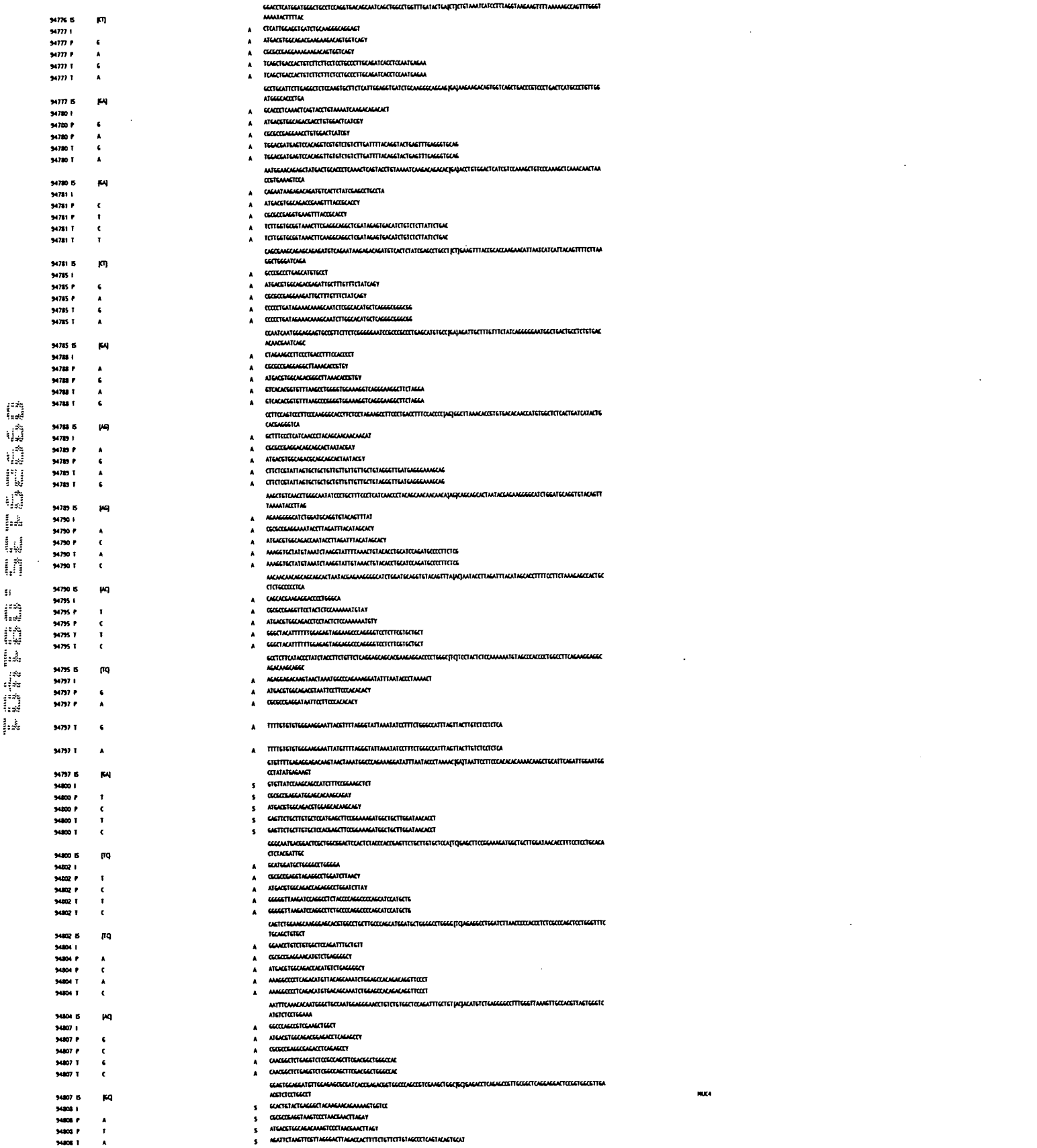












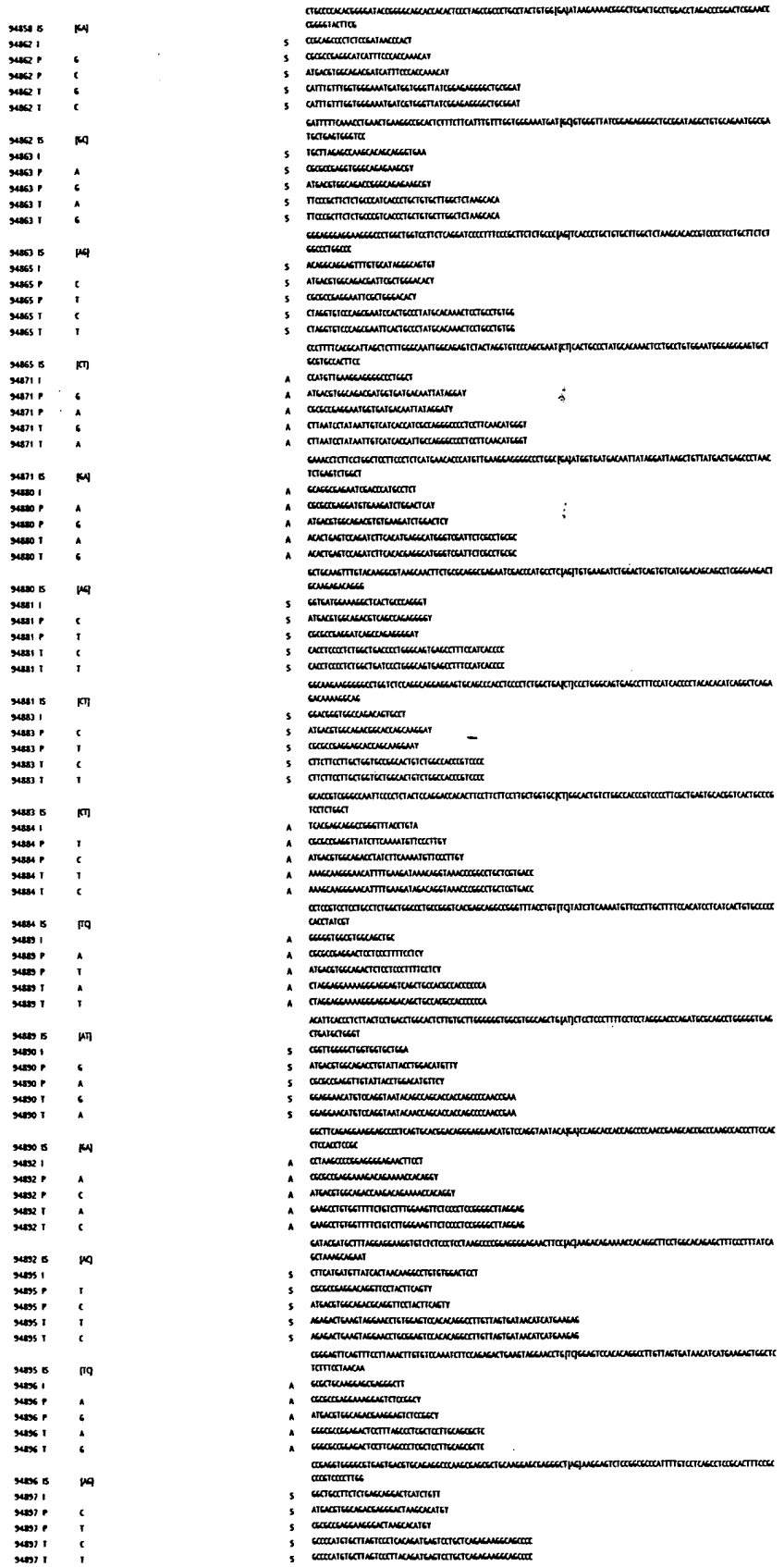




94808 T	T	S	AGATTCTAAGTTCGTTAGGGACTTTGACCACTTTTCTGTTCTTGTAGCCCTCAGTACAGTGCAT
94808 IS	(AT)		ATATGATCTTTGTTCTATAACTCGTGCACTAGAAATAGATTCTAAGTTCGTTAGGGACTT[AT]GACCACTTTTCTGTTCTTGTAGCCCTCAGTACAGTGCATTCAGAGTG TCCTAGGTCATGG
94811 I		S	CAGCACAGGTGTGGGCAGCCTGCT
94811 P	C	S	ATGACGTGGCACACGGGGAGCGCTCTGY
94811 P	T	S	CGCGCCGAGGAGGGAAGCGCTCTGY
94811 T	C	S	ATCCCAGAGCGCTCCCCGCAGGCTGCCCACACCTGTCCCTGTG
94811 T	T	S	ATCCCAGAGCGCTCCCTGCAGGCTGCCCACACCTGTCCTGTG
94811 IS	(CT)		CAGCAAGTCCAAGTGGGCCTGGGCCTTCTTTAGGGCTGAAAGGGATCCCACAGCGCTCCC[CT]GCAGGCTGCCCACACCTGTCCTGTGTTCCCCGAGGGCCCCAGAGCCAG CCATCTAGGGTG
94813 I		A	GGGGCAAGAGGCTCCGGCCTCA
94813 P	C	A	ATGACGTGGCAGACCTCTGGCAGTTGAATCCY
94813 P	T	A	CGCGCCAGGTTCTGGCAGTTGAATCCY
94813 T	C	A	ATCTGGATTCAACTGCCAGAGGAGGCCGCAGCCTCTTGCCCCAT
94813 T	T	A	ATCTGGATTCAACTGCCAGAAGAGGCCGCAGCCTCTTGCCCCAT
94813 IS	(CT)		TTGGGCCTTCCTCACTTCCTAATGCCCTGCAACCTCCCATGGGGCAAGAGGCTCCGGCCTC[CT]TCTGGCAGTTGAATCCAGATGGATGACAAGATGAAGGCCGCACAGCAA TGGTTCCGCCT
94817 I		A	GACGGGCCCTCTTGACTCACTCTTGTTAGGAA
94817 P	C	A	ATGACGTGGCAGACCAGACCCCCTACAGCY
94817 P	T	A	CGCGCCGAGGTAGACCCCCTACAGCCY
94817 T	C	A	ATCAGGCTGTAGGGGGCTCTGTCCTAACAAGAGTGAGTCAAGAGGGCCCGTCCT
94817 T	T	A	ATCAGGCTGTAGGGGGCTCTATCCTAACAAGAGTGAGTCAAGAGGGCCCGTCCT
94817 IS	(CT)		GGAGTTATTCACCCAGTCCAGGAGCACAGGACGGGCCCTCTTGACTCACTCTTGTTAGGAA[CT]AGACCCCCTACAGCCTGATTTTACAATCAAAGGCTGAATTGTCAGCCC CCATCCCCCGTC
94819 I		S	GCTTGTTCTGTTCTGTGTTCCTATTCATAGGATTTCAATAACT
94819 P	C	S	ATGACGTGGCAGACGAGAGTGACAGCTGACAY
94819 P	T	S	CGCGCCGAGGAAGAGTGACAGCTGACAY
94819 T	C	S	GAAATGTCAGCTGTCACTCTCGTTATTGAAATCCTATGAATAGGAACACAGAACAGAACAAGCCA
94819 T	T	S	GAAATGTCAGCTGTCACTCTTGTTATTGAAATCCTATGAATAGGAACACAGAACAGAACAAGCCA
94819 IS	(CT)		TCTCTTGCTGGGATTATTTAGGACAGACCTCTAGCAAGAGAAATGTCAGCTGTCACTCT[CT]GTTATTGAAATCCTATGAATAGGAACACAGAACAGAACAAGCCAGT AAAAATGTTATGGG
94821 I		S	GGGGGCTCAGGAGGCTTCAATGGAATAAT
94821 P	T	S	CGCGCCGAGGAATATTCACACCACTCCCY
94821 P	C	S	ATGACGTGGCAGACGATATTCACACACTCCCY
94821 T	T	S	CCTGGGGAGTGGTGTGAATATTTTATTCCATTGAAGCCTCCTGGAGCCCCCAG
94821 T	C	S	CCTGGGGAGTGGTGTGAATATCTTATTCCATTGAAGCCTCCTGGAGCCCCCAG
94821 IS	(TC)		GTCACCAGATCATGTGTGTGCGCACAGGTGCTCAGAGCCCCTGGGGAGTGGTGTGAATAT[TC]TTATTCCATTGAAGCCTCCTGGAGCCCCAGGCCTCTGCAGGTTTTCC TGGGCCCACATT
94822 I		S	CGGGGGCTACAAGGCCAGGTGGT
94822 P	C	S	ATGACGTGGCAGACGCCCTAAAGGTCACGTY
94822 P	T	S	CGCGCCGAGGACCCTAAAGGTCACGTY
94822 T	C	S	ACCCACGTGACCTTTAGGGCCCACCTGGCCTTGTAGCCCCCGTT
94822 T	T	S	ACCCACGTGACCTTTAGGGTCCACCTGGCCTTGTAGCCCCCGTT
94822 IS	(CT)		TCACCCCAGGGTCCACTGGGCAGGATAGGCGTGGGCATTGACCCACGTGACCTTTAGGG[CT]CCACCTGGCCTTGTAGCCCCCGTTGTTTGTGATCTTTCTAATCCAAGA CTCGGCCTGCTG
94826 I		A	GGAACTCCAGCCACTCCCAAGGCTAGAAGTTAT
94826 P	A	A	CGCGCCGAGGAGTTTTCTACACACCCTTCY
94826 P	C	A	ATGACGTGGCAGACGCTTTTCTACACACCCTTY
94826 T	A	A	GATGGAAGGGTGTGTAGAAAACTTAACTTCTAGCCTTGGGAGTGGCTGGAGTTCCAG
94826 T	C	A	GATGGAAGGGTGTGTAGAAAACGTAACTTCTAGCCTTGGGAGTGGCTGGAGTTCCAG
94826 IS	(AC)		CTTCAGTGTGGTCTGGGAAGTCCTCTCTGGAACTCCAGCCACTCCCAAAGCTAGAAGTTAJAC]GTTTTCTACACACCCTTCCATCCCCTCCCTCCTTGGGCTCATGTCTCAC CTTGAATCTGG
94828 I		A	CACCACCCTCTAGACGTGGCAAAGACAAGAATTAA
94828 P	T	A	CGCGCCGAGGTGCTGGCAAAGGTAAGY
94828 P	C	A	ATGACGTGGCAGACCGCTGGCAAAGGTAAGY
94828 T	T	A	ACCACTTACCTTTGCCAGCATAATTCTGTCTTTGCCACGTCTAGAGGGGTGGTGAC
94828 T	C	A	ACCACTTACCTTTGCCAGCGTAATTCTGTCTTTGCCACGTCTAGAGGGGTGGTGAC
94828 IS	(TC)		GTACAGGTGGAATTTGCCGCTGCAGTCACCACCCCTCTAGACGTGGCAAAGACAAGAATTA[TC]GCTGGCAAAGGTAAGTGGTGAAATAATGTAATGGAGATACTTCAGA TGCTCATATCTGTT
94829 I		A	GGTTTCCTGACATTGCCACGGTAGCCACAGT
94829 P	G	A	ATGACGTGGCAGACGTAATGAAGAGCAGGGCY
94829 P	A	A	CGCGCCGAGGATAATGAAGAGCAGGGCTY
94829 T	G	A	CCCCAGCCCTGCTCTTCATTACCTGTGGCTACCGTGGCAATGTCAGGAAACCAC
94829 T	A	A	CCCCAGCCCTGCTCTTCATTATCTGTGGCTACCGTGGCAATGTCAGGAAACCAC
94829 IS	(GA)		CTGGGGCGGGGCTGGAGGTGAGCCATTTGTGTTTCCTGACATTGCCACGGTAGCCACAG[GA]TAATGAAGAGCAGGGCTGGGGAGGGTCCTTCCTGAGCTGCATGCTT TCAACACCGACAC
94832 I		A	CTGAGAGTCCCTCAGTCCCTCTCCCAGGA
94832 P	T	A	CGCGCCGAGGTCAAGTTTCTGCAGCTCY
94832 P	C	A	ATGACGTGGCAGACCCAAGTTTCTGCAGCTCY
94832 T	T	A	GTTGGAGCTGCAGAAACTTGACCTGGGAGAGGCACTGAGGGACTCTCAGTA
94832 T	C	A	GTTGGAGCTGCAGAAACTTGGCCTGGGAGAGGCACTGAGGGACTCTCAGTA
94832 IS	(TC)		GCCAGCTTCCTGCCCAAATACCTGTGTATGTACTGAGAGTCCCTCAGTCCCTCTCCCAGG[TC]CAAGTTTCTGCAGCTCCAACCTGGTTCCTCCACCATCTTGGGCCCCTGG ACCATCTACCT
94834 I		S	CAGCTACGCAGCCAGGCCTCTCACT
94834 P	C	S	ATGACGTGGCAGACGGGTGTCGCAGTCCY
94834 P	T	S	CGCGCCGAGGAGGTGTCGCAGTCCY
94834 T	C	S	CCTGGGACTGCCACACCCGTGAGAGGCCTGGCTGCGTAGCTGGG
94834 T	T	S	CCTGGGACTGCCACACCTGTGAGAGGCCTGGCTGCGTAGCTGGG
94834 IS	(CT)		TTTTCCCCCACCAGTGGGTCACCCCTGATGAGGACCTCAGAGCCCTGGGACTGCGACACC[CT]GTGAGAGGCCTGGCTGCGTAGCTGGGCCCCTCCTTCATGGCTGCTCCT GTTCCCTGGCAG
94836 I		A	TGCTGCAGGAGCCCCCAGGCC
94836 P	G	A	ATGACGTGGCAGACGAGGTTCGGCCTTCCY
94836 P	T	A	CGCGCCGAGGTAGGTTCGGCCTTCCY
94836 T	G	A	CAGAGGAAGGCCGAACCTCGCCTGGGGGCTCCTGCAGCAGC
94836 T	T	A	CAGAGGAAGGCCGAACCTAGCCTGGGGGCTCCTGCAGCAGC
94836 IS	(GT)		TTCTGTGTTTAGTTCCACACGGGCCCAGTGCTGCCCCTGCTGCTGCAGGAGCCCCCAGGC[GT]AGGTTCGGCCTTCCTCTCGCCCCTGTGCACCCGGAGATGCCCACAGCAC CAGCACCTGAG
94838 I		A	ACTGATGATGGTGGCCTTCACCTGGGGT
94838 P	G	A	ATGACGTGGCAGACGGGATTCATGTGCACGY
94838 P	A	A	CGCGCCGAGGAGGATTCATGTGCACGY
94838 T	G	A	TGAACGTGCACATGAATCCCCCCAGGTGAAGGCCACCATCATCAGTGA
94838 T	A	A	TGAACGTGCACATGAATCCTCCCCAGGTGAAGGCCACCATCATCAGTGA
94838 IS	(GA)		CTCATTTTTAAGCAGAGACTTGGCCTGCTGCTCACTGATGATGCTGGCCTTCACCTGGGG[GA]GGATTCATGTGCACGTYCAGCTTCCCCCCCACCAGCAGGCCTACGGTG GCTGCAAACTTG
94839 I		S	GGGGAACGGGAGCTGTGTCTTGGGGT
94839 P	G	S	ATGACGTGGCAGACCCTGGGCTCTGTGAY
94839 P	T	S	CGCGCCGAGGACTGGGCTCTGTGAGY
94839 T	G	S	TCTCCTCACAGACGCCAGGCCCCAAGACACAGCTCCCGTTCCCCCA
94839 T	T	S	TCTCCTCACAGACGCCAGTCCCCAAGACACAGCTCCCGTTCCCCCA

STAT5A





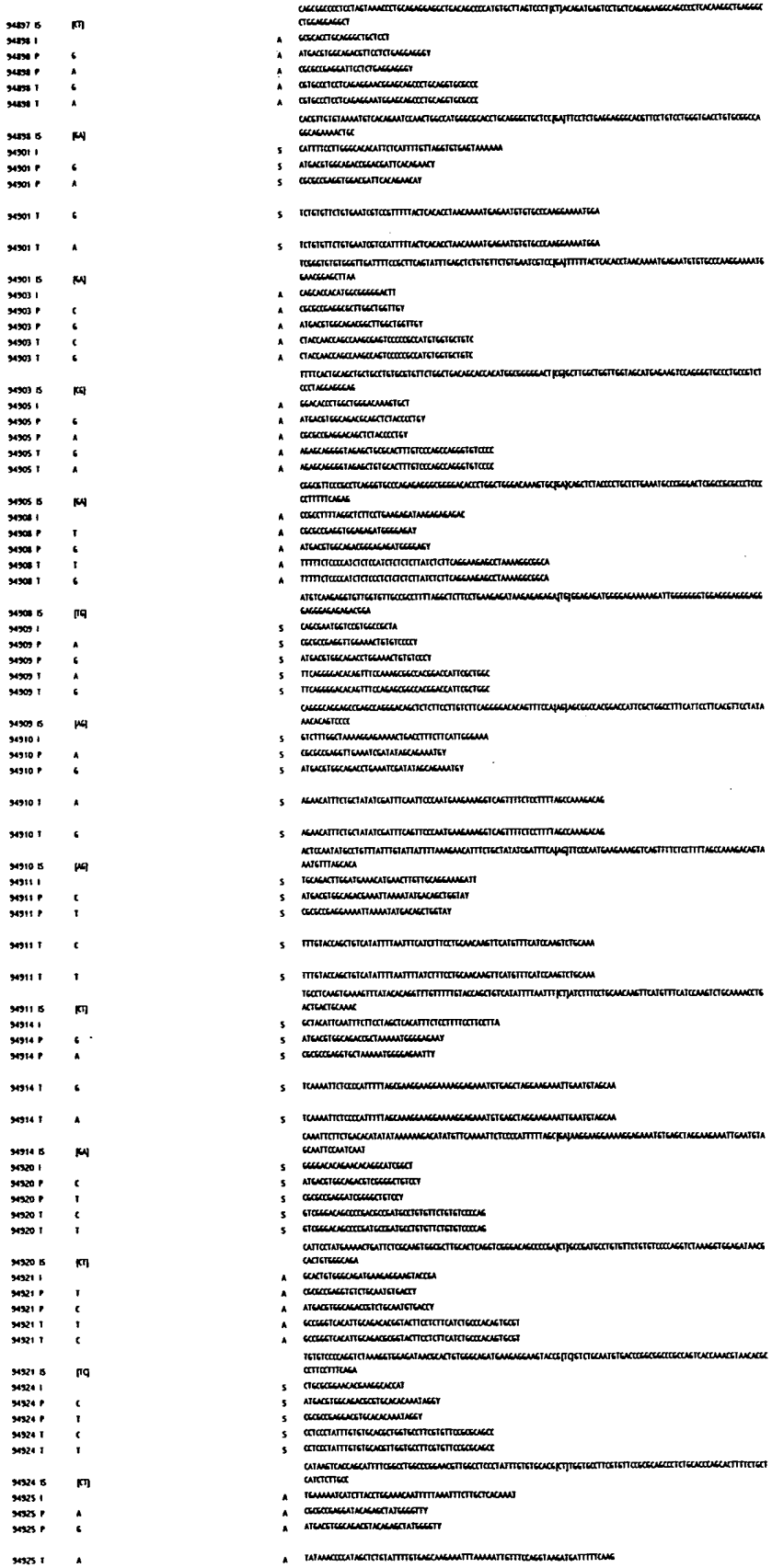
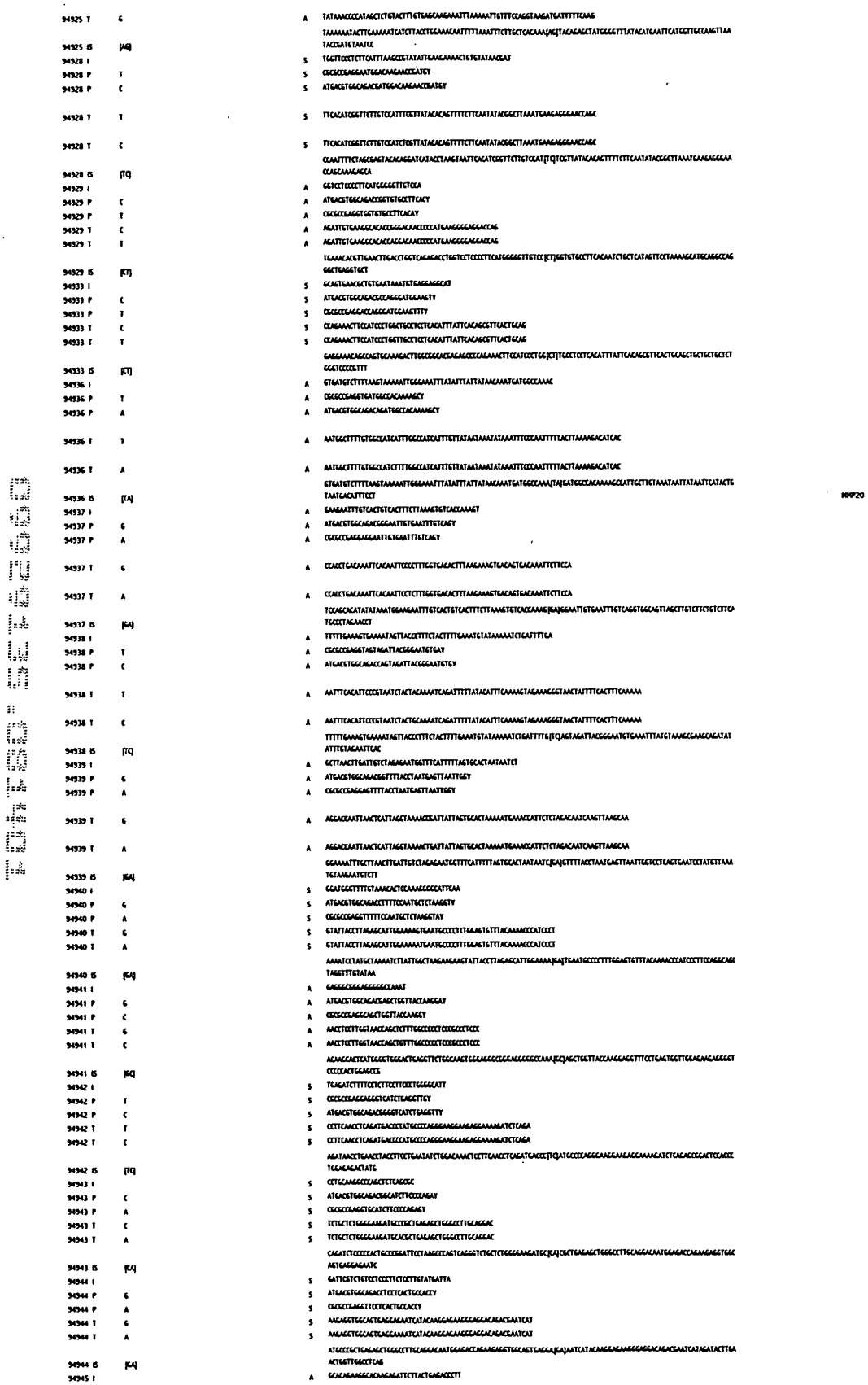


FIGURE 129C



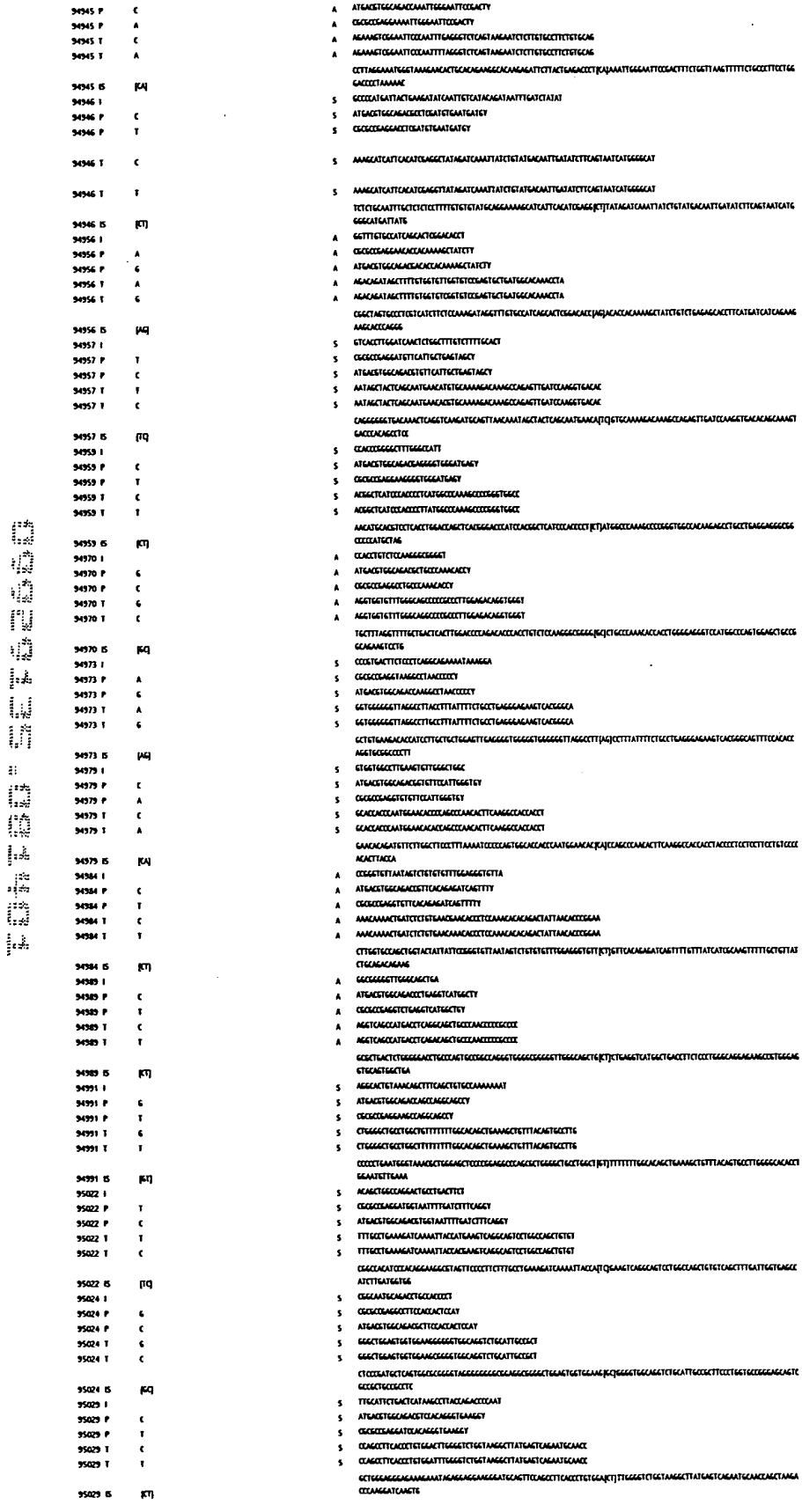
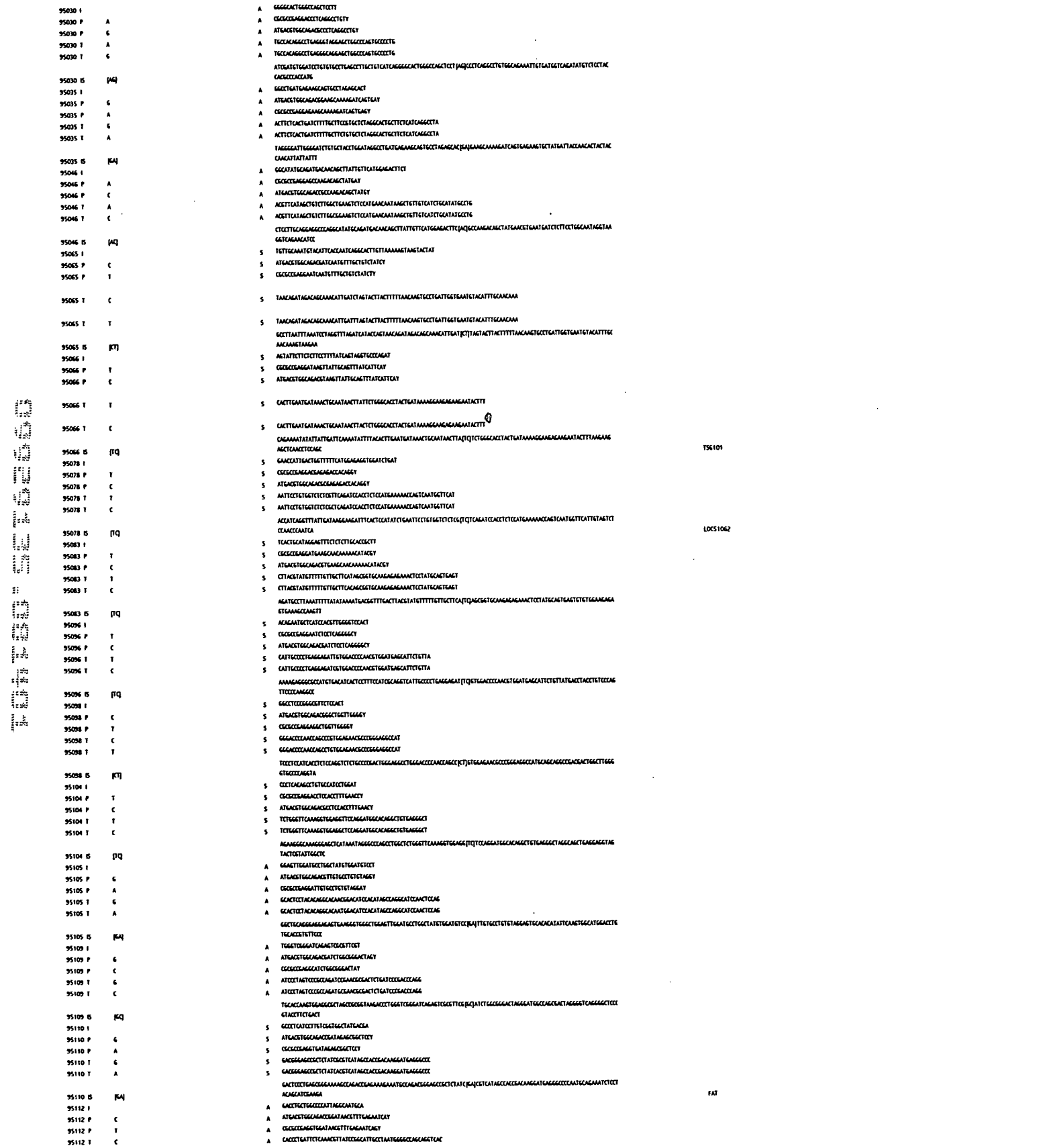


FIGURE 129C


95030 I
95030 P A
95030 P G
95030 T A
95030 T G
95030 IS (AG)
95035 I
95035 P G
95035 P A
95035 T G
95035 T A
95035 IS (GA)
95046 I
95046 P A
95046 P C
95046 T A
95046 T C
95046 IS (AC)
95065 I
95065 P C
95065 P T
95065 T C
95065 T T
95065 IS (CT)
95066 I
95066 P T
95066 P C
95066 T T
95066 T C
95066 IS (TC)
95078 I
95078 P T
95078 P C
95078 T T
95078 T C
95078 IS (TC)
95083 I
95083 P T
95083 P C
95083 T T
95083 T C
95083 IS (TC)
95096 I
95096 P T
95096 P C
95096 T T
95096 T C
95096 IS (TC)
95098 I
95098 P C
95098 P T
95098 T C
95098 T T
95098 IS (CT)
95104 I
95104 P T
95104 P C
95104 T T
95104 T C
95104 IS (TC)
95105 I
95105 P G
95105 P A
95105 T G
95105 T A
95105 IS (GA)
95109 I
95109 P G
95109 P C
95109 T G
95109 T C
95109 IS (GC)
95110 I
95110 P G
95110 P A
95110 T G
95110 T A
95110 IS (GA)
95112 I
95112 P C
95112 P T
95112 T C
TSC101
LOC51062
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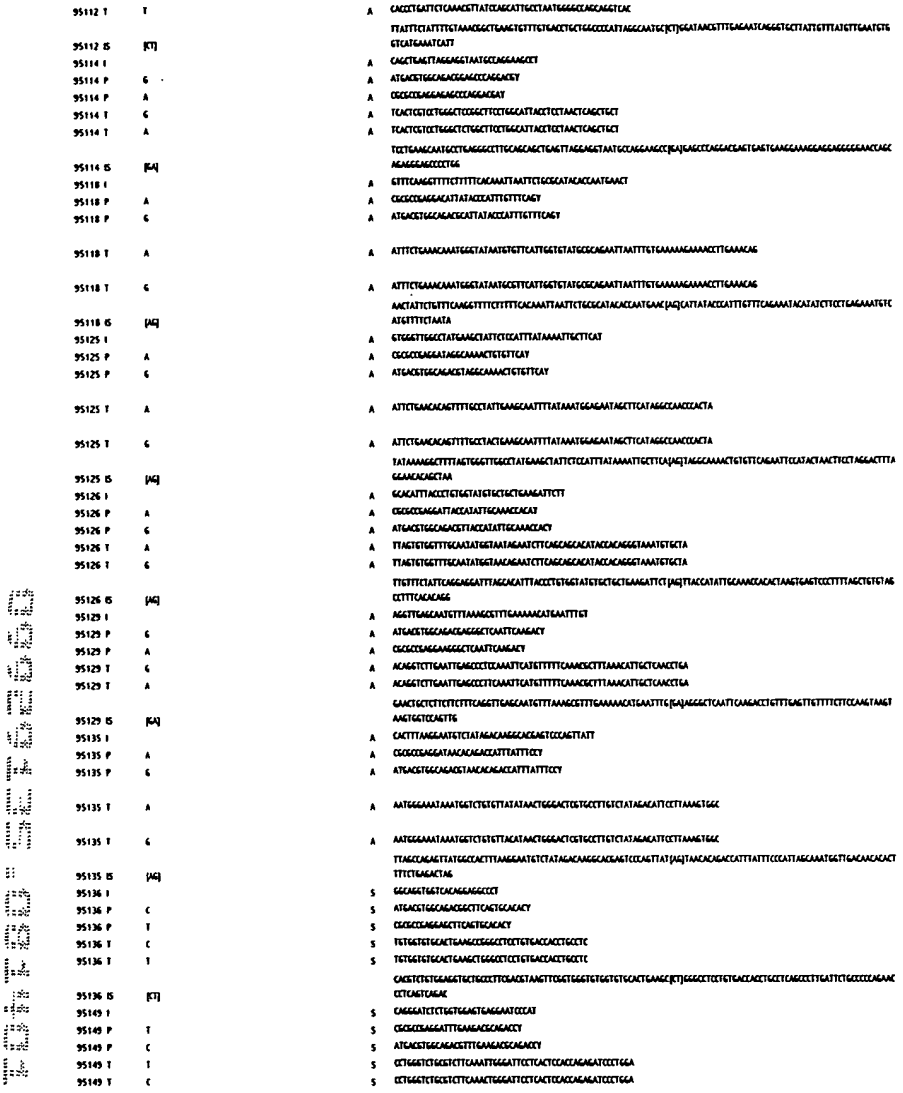
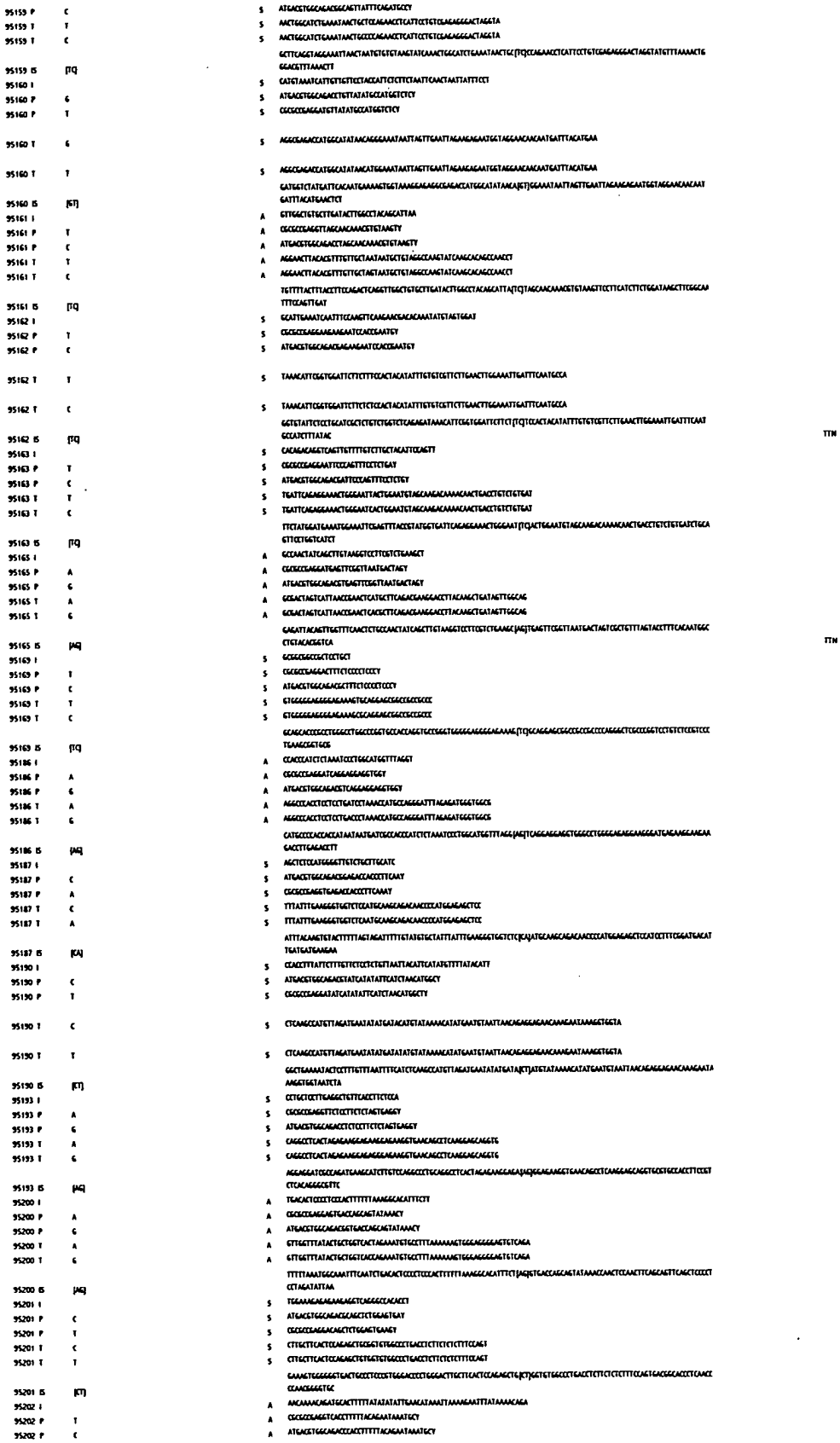
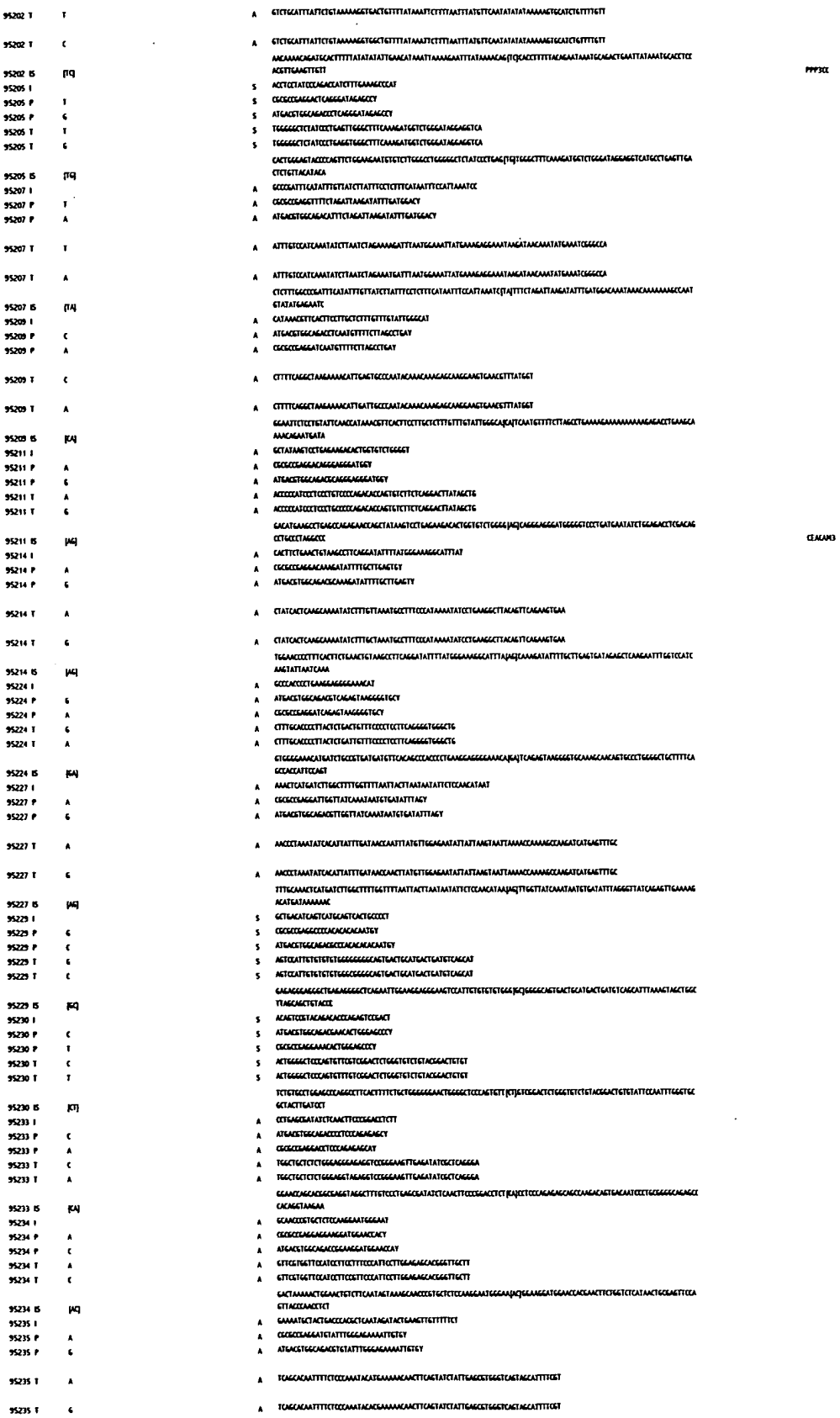
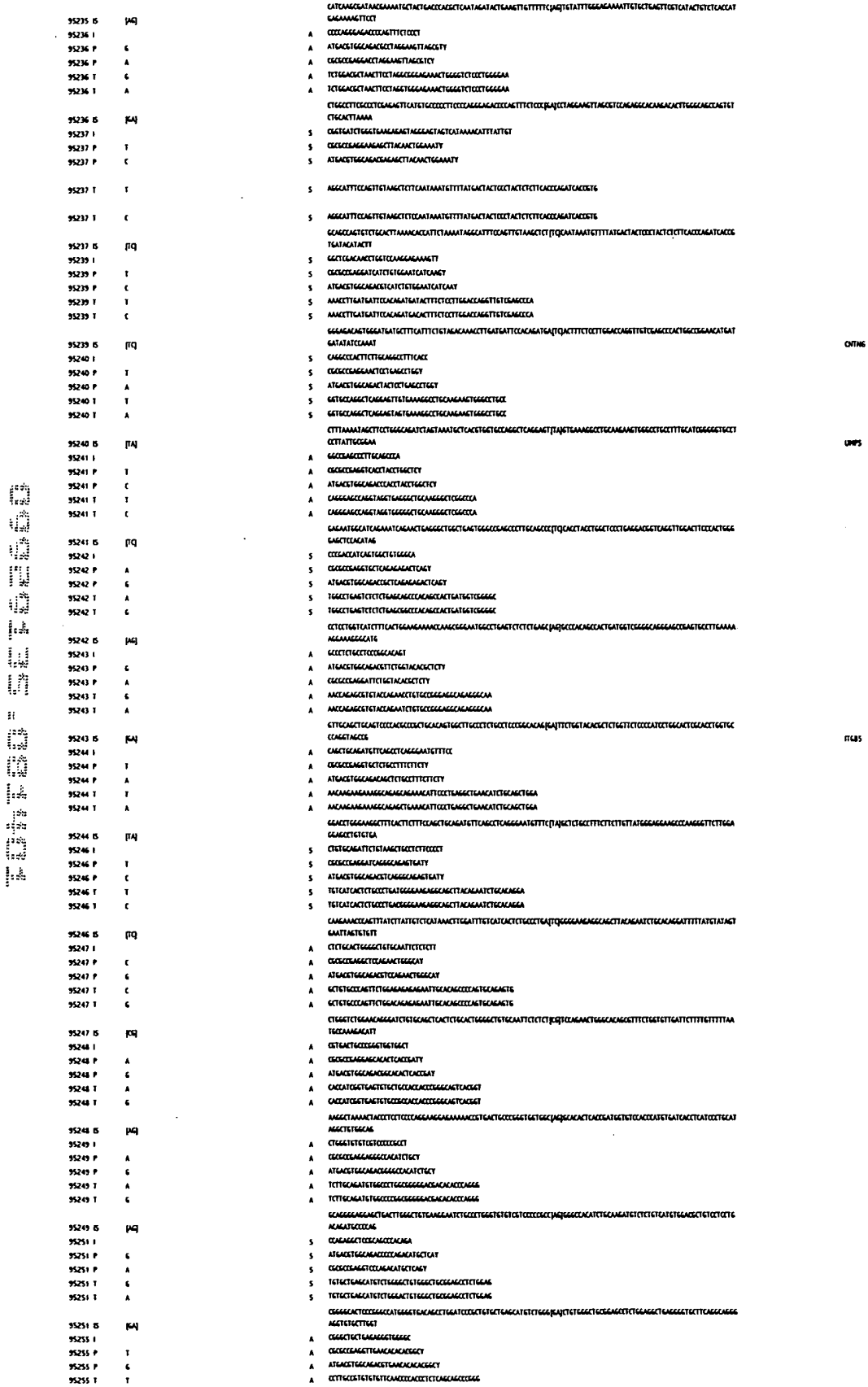


FIGURE 129C







95255 T G A CCTTGCCGTGTGTCTTCACCCCCACCCTCTCAGCAGCCCCGG

95255 IS (TG) GGCAACGGCCTCTTGTGTGTGCAGTGTCCTGCCCTTCCCGGGCTGCTCAGAGGGTGGGG(TG)TGAACACACACGCAAGGAAAAGATGAAGCACATCCTTCTGAGGGA ACTGGGCATCATGC

95258 I A TTCATAAAGTCAAATAATAGTGTACCCTCACATCAATAAATACAACCAATTTTTC

95258 P A A CGCGCCGAGGATCATGAGGACAGTATAATTAATAAAACT

95258 P T A ATGACGTGGCAGACTTCATGAGGACAGTATAATTAATAAAAY

95258 T A A AGTAGTTTTATTAATTATACTGTCCTCATGATAAAAATTGGTTGTATTTATTGATGTGAGGGTACACTATTATTTGACTTTATGAACT

95258 T T A AGTAGTTTTATTAATTATACTGTCCTCATGAAAAAAATTGGTTGTATTTATTGATGTGAGGGTACACTATTATTTGACTTTATGAACT

95258 IS (AT) CACAAGTTCATAAAGTCAAATAATAGTGTACCCTCACATCAATAAATACAACCAATTTTTJATJTCATGAGGACAGTATAATTAATAAAACTACTGAAGACATTAACTTT AAGGTATAGCCTTC

95259 I S GCCTGGCGCAGGGCCCAT

95259 P T S CGCGCCGAGGAGCCAAACCTGCACCY

95259 P C S ATGACGTGCCAGACGCCCAAACCTGCACY

95259 T T S CCCTGGTCCAGGTTTGGCCTGGGCCCCTGCCCCAGGCCT

95259 T C S CCCTGGTCCAGGTTTGGCCTGGGCCCTGCCCCAGGCCT

95259 IS (TC) GGCGCAGTCCATTGAGTCGAAACCACACAGATGTCCCCAGGTCCCCCCTGGTCCAGGTTTGGCCJTCJTGGGCCCTCGCCCAGGCCTGGCTCTGGACCTGGCTGTCCACTCCAGA TATGAGGCCTCC MGC10820

95276 I S TCAGTGGGAGGGGGGACAGGGCT

95276 P T S CGCGCCGAGGATGGCAGGCTAGGGY

95276 P C S ATGACGTGGCAGACGTGGCAGGCTAGGGY

95276 T T S AAGCCCCTAGCCTGCCATGCCCTGTCCCCCCTCCCACTGAGC

95276 T C S AAGCCCCTAGCCTGCCACGCCCTGTCCCCCCTCCCACTGAGC

95276 IS (TC) TGCACATGTTTTGCAAGAAGAAAGGAAATCAATCATTAAAGACAAGCCCCTAGCCTGCCA(TC)GCCCTGTCCCCCCTCCCACTGAGCCTCTGGTACTGACACCCTCCTCCG TTTGCTGTCTAG

95277 I A TGACAGCAAAGAAGGTAAAGACACCTGGGCTTGAGT

95277 P G A ATGACGTGCCAGACGTTGTGTCTGTGTATGCAY

95277 P A A CGCGCCGAGGATTGTGTCTGTGTATGCACY

95277 T G A ATGTGTGCATACACAGACACAACCTCAAGCCCAGGTGTCTTTACCTTCTTTGCTGTCAGA

95277 T A A ATGTGTGCATACACAGACACAATCTCAAGCCCAGGTGTCTTTACCTTCTTTGCTGTCAGA

95277 IS (GA) CAGCCCTGCAGCCTCTGAAACACTCTGACAGCAAAGAAGGTAAAGACACCTGGGCTTGAG(GA)TTGTGTCTGTGTATGCACACATCTGTGTGTGAAGAGCTGAGAGGGT GGGTAGGCATCATC

95285 I A CTGTGGGAGAGGTTGTGGCTGTCTTGGA

95285 P C A ATGACGTGCCAGACGCCTGGGAGCTGY

95285 P T A CGCGCCGAGGTGCCTGGGAGCTGY

95285 T C A GCACCAGCTCCCAGGCGCCAAGACAGCCACGAACCTCTCCCACAGGC

95285 T T A GCACCAGCTCCCAGGCAACAAGACAGCCACGAACCTCTCCCACAGGC

95285 IS (CT) GGATGGGGGCTGTGGGGCAAGGCAGGGTGCGCCTGTGGGAGAGGTTCGTGGCTGTCTTGG(CT)GCCTGGGAGCTGGTGCTGCTCACGGCGCACATGGTGAGCCAGGCC ACGCGGTGCTGGCT

95290 I S CTGACTGTGTGACCCTCCTCCCACCACA

95290 P G S ATGACGTGGCAGAGCTCTCTCCACCTCGAGY

95290 P A S CGCGCCGAGGTTCTCTCCACCTCGAGY

95290 T G S GGCCCTCGAGGTGCAGACAGAGGTGGTGCCAGCAGGGTCACACAGTCAGCA

95290 T A S GGCCCTCGAGGTGCAGACAAAGGTGGTGCCAGCAGGGTCACACAGTCAGCA

95290 IS (GA) GAGGTCTGGGTGAAAGATATAGAAGTTAGCATTTAAGTCAGGGCCCTCGAGGTGCAGAGA(GA)GTGGTGGCAGCAGGGTCACACAGTCACCAGCCTGAACAGGACGTG GCCATGAACTGTGGG

95292 I A CTGGTCCCACCGCTTTCCTGGGAGAAA

95292 P C A ATGACGTGCCAGACGSTCACTGTGGACGTY

95292 P T A CGCGCCGAGGTGTCACTGTGGACGTAAY

95292 T C A TCACTTACGTCCACAGTGACGTTCTCCCAGGAAAGCGGTGGGACCAGTG

95292 T T A TCACTTACGTCCACAGTGACATTCTCCCAGGAAAGCGGTGGGACCAGTG

95292 IS (CT) CTGGCGGGCTCGGGTGGGGACCCCTGCCAGCCACTGGTCCCACCGCTTTCCTGGGAGAAG(CT)GTCACTGTGGACGTAAGTGAAGCAGAGGGCACCTCCCGTGCTGACGG GAGAGTGGGGAAC

95293 I S GCTTTCGTTTTGGCTCCCGGCAGGCC

95293 P A S CGCGCCGAGGTGCTGGCTGTTCCCY

95293 P T S ATGACGTGGCAGACAGCTGGCTGTTCCCY

95293 T A S GGGCGGGAACAGCCAGCAGCTGCCGCGGAGCCAAACGAAAGCAC

95293 T T S GGGCGGGAACAGCCAGCTGCCTGCCGGAGCCAAACGAAAGCAC

95293 IS (AT) GCTGCTGGCTCCCAAGCCTGGTGTTGGTGGGAGGGACAGAGAGGGCCGGGAACAGCCAGC(AT)GCCTGCCGGAGCCAAACGAAAGCACTCCGTGCTGGAACTAGGAG GAGAGTCAGGACTC

95306 I S CAGAGATTGCACATCCTCCATCACCGTGTT

95306 P C S ATGACGTGCCAGACGCACAGGGTGAAATGTACY

95306 P T S CGCGCCGAGGACACAGGGTGAAATGTACY

95306 T C S GCATGTACATTTCACCCTGTGCACACGGTGATGGAGGATGGTGCAATCTCTGGG

95306 T T S GCATGTACATTTCACCCTGTGTACACGGTGATGGAGGATGGTGCAATCTCTGGG

95306 IS (CT) CTCCTGACTTTCCTCATACTCCAGGCAGTTACTGCTGTCGCATGTACATTTCACCCTGTG(CT)ACACGGTGATGGAGGATGGTGCAATCTCTGGGGGCACGTGTGTTTATT GTACTGCATTCT

95308 I A GCTCCCGCATGGCCCGCACA

95308 P C A ATGACGTGCCAGACACACACACGTCCCY

95308 P T A CGCGCCGAGGTACCACACACGTCCCY

95308 T C A CACGGGGACGTGGTGGTGGTGCGGCCCATGCGGGAACAC

95308 T T A CACGGGGACGTGGTGGTAGTGCGGCCCATGCGGGAACAC

95308 IS (CT) GGAGAACAGGCGGTTGTAGAAAGCGACCTCCTTCAGGGTGTGGTCCCGCATGGGCCGCACJCT)ACCACCACGTCCCCGTGCCGCTCATCCGCAGAAGCCCTGCGGGAGGCAG GGGCTGTGTGGT

95312 I A GCACCGACGATGGCAGGCTGAAT

95312 P C A CGCGCCGAGGCACCTTCCGGGATGAY

95312 P G A ATGACGTGGCAGACGACCTTCCGGGATGAY

95312 T C A TCCCTCATCCCGGAAGGTGTTCAGCCTGCCACCGTCGGTGCTT

95312 T G A TCCCTCATCCCGGAAGGTCTTCAGCCTGCCACCGTCGGTGCTT

95312 IS (CG) CCCCTCGGATCCCCACCAGCTCCTGGGCAGAGCACCAAAGCACCGACGGTGGCAGGCTGAA(CG)ACCTTCCGGGATCAGGGAGACGCCAGTGAGCCCGGCAACAGGGCAG GTGCCCCCCACAG

95322 I S GCAGCCACATGCCGCCTCTTCTGCT

95322 P G S ATGACGTGCCAGACCGGAAGGACAAAGCCT

95322 P T S CGCGCCGAGGAGGAAGGACAAAGCCTY

95322 T G S CCCCAGCCTTTGTCCTTCCGCAGAAGAGCCGGCATGTGGCTGCGC

95322 T T S CCCCAGCCTTTGTCCTTCCTGCAGAAGAGCCGGCATGTGGCTGCGC

95322 IS (GT) TCTCCCGCCTGTCGTTCCCGGCAGGGCGAGGTTGCCTGCATCCCCAGCCTTTGTCCTTCC(GT)GCAGAAGAGCCGGCATGTGGCTCCGCGTTTCTTATAGCGCCCCTTTGT TCCCTGGCGAA

95323 I A GCCCAGGCTCTCCCAGTGAGCTACTT

95323 P A A CGCGCCGAGGATTCAGGACATCCTTGGY

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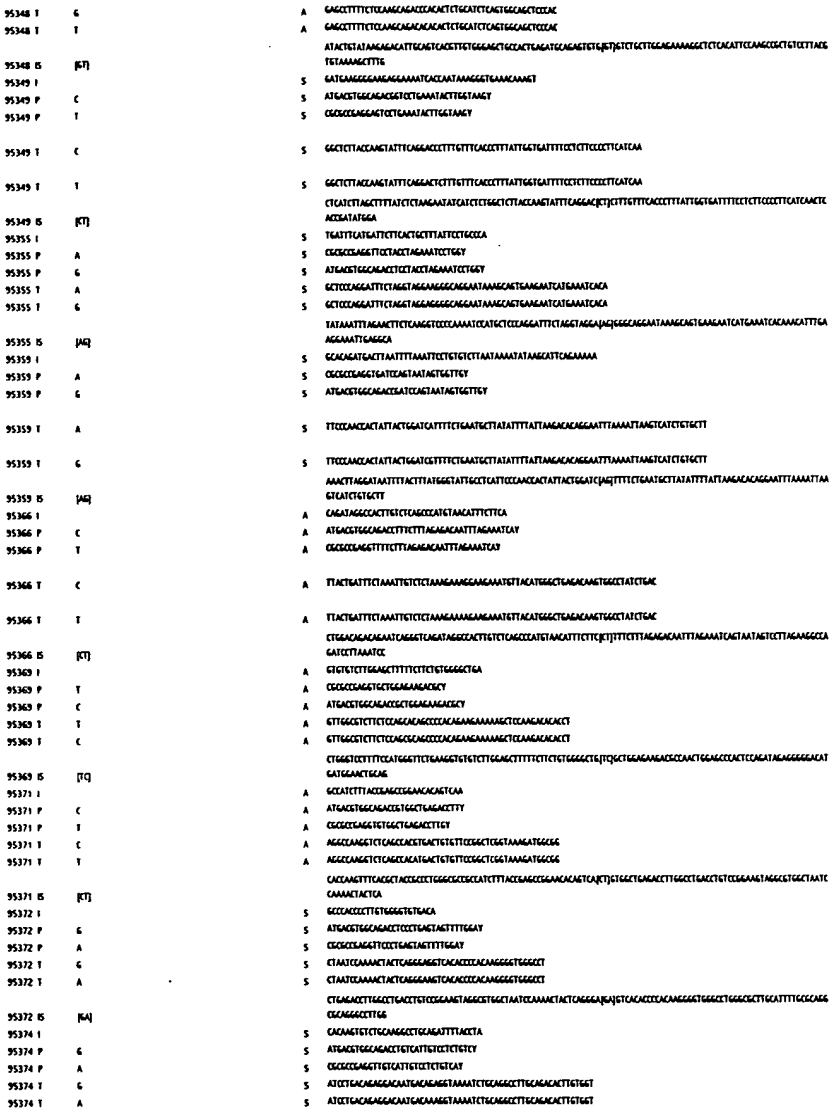
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95323 IS (AG) GGCTGCGCAGGTGGGGGCTGTGGAGGTGGGCATGTGCCCAGGCTCTCCCAGTGAGCTACT)AGJTTGAGGACATCCTTGGCCTACCTCTGGACTCCTGAAGGCTATGTGT GTCTCCCTCCCCC

95348 I A GGGAGCTGCCACTGAGATGCAGAGTGTGC

95348 P G A ATGACGTGCCAGACGCTCTGCTTGGAGAAAAGY

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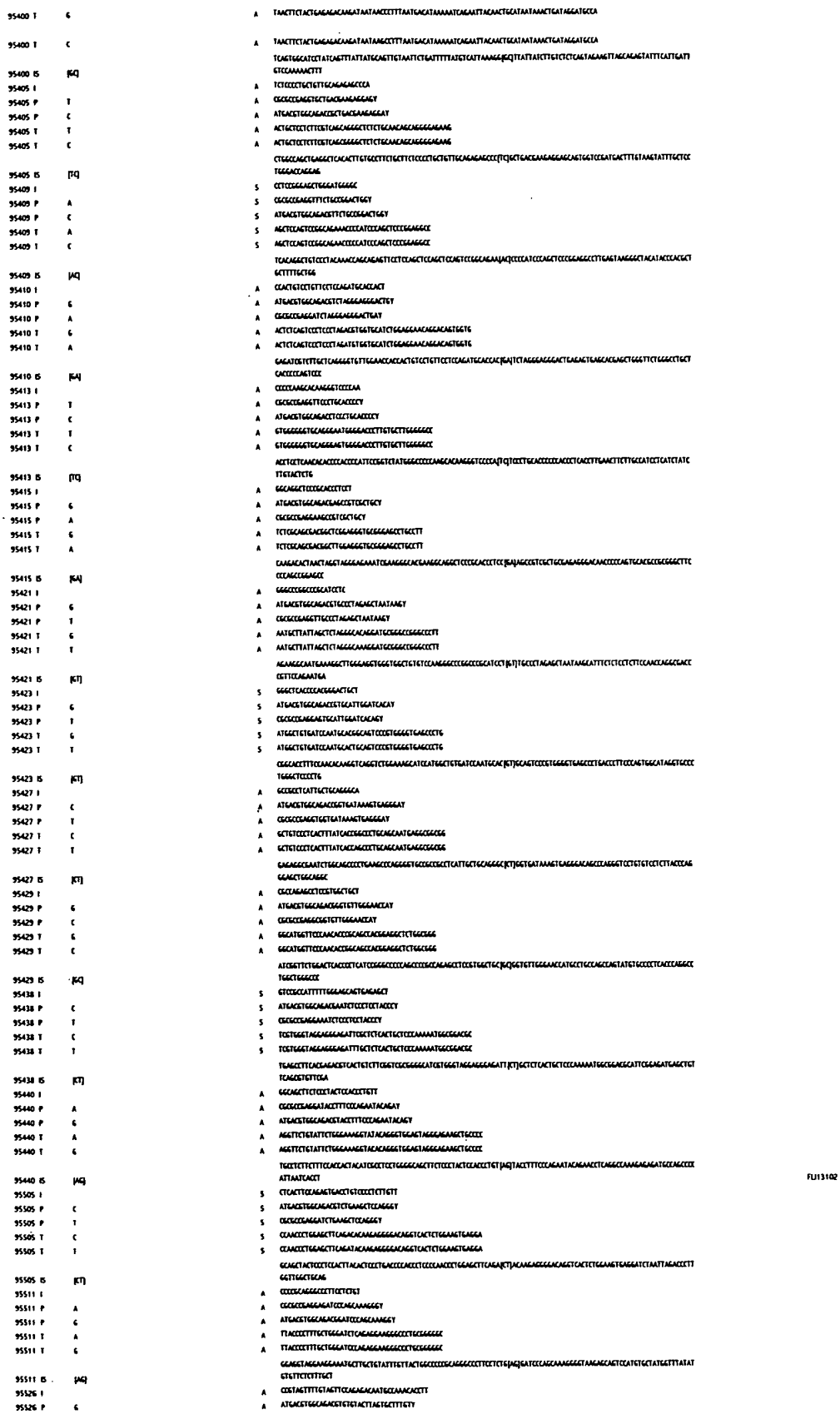
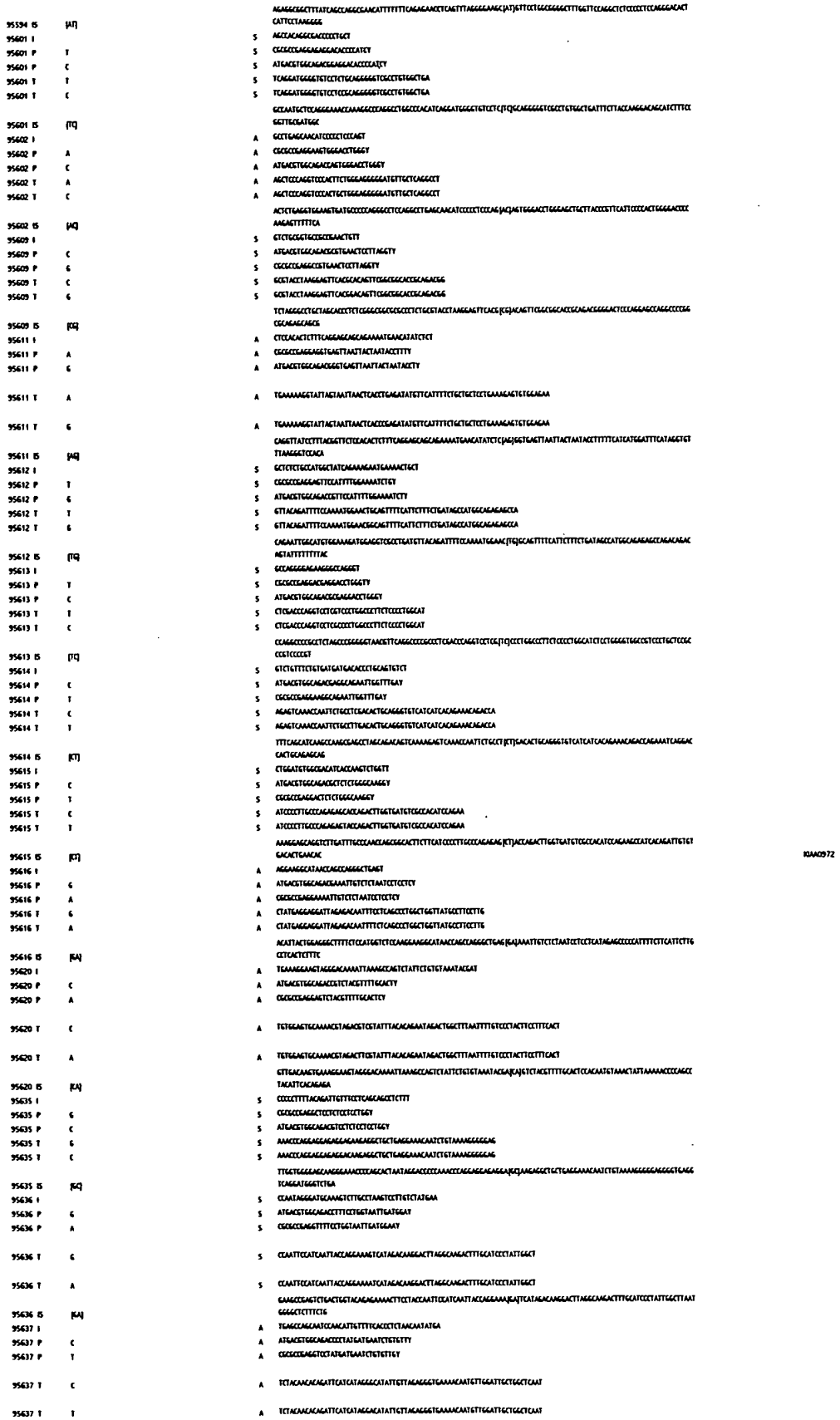
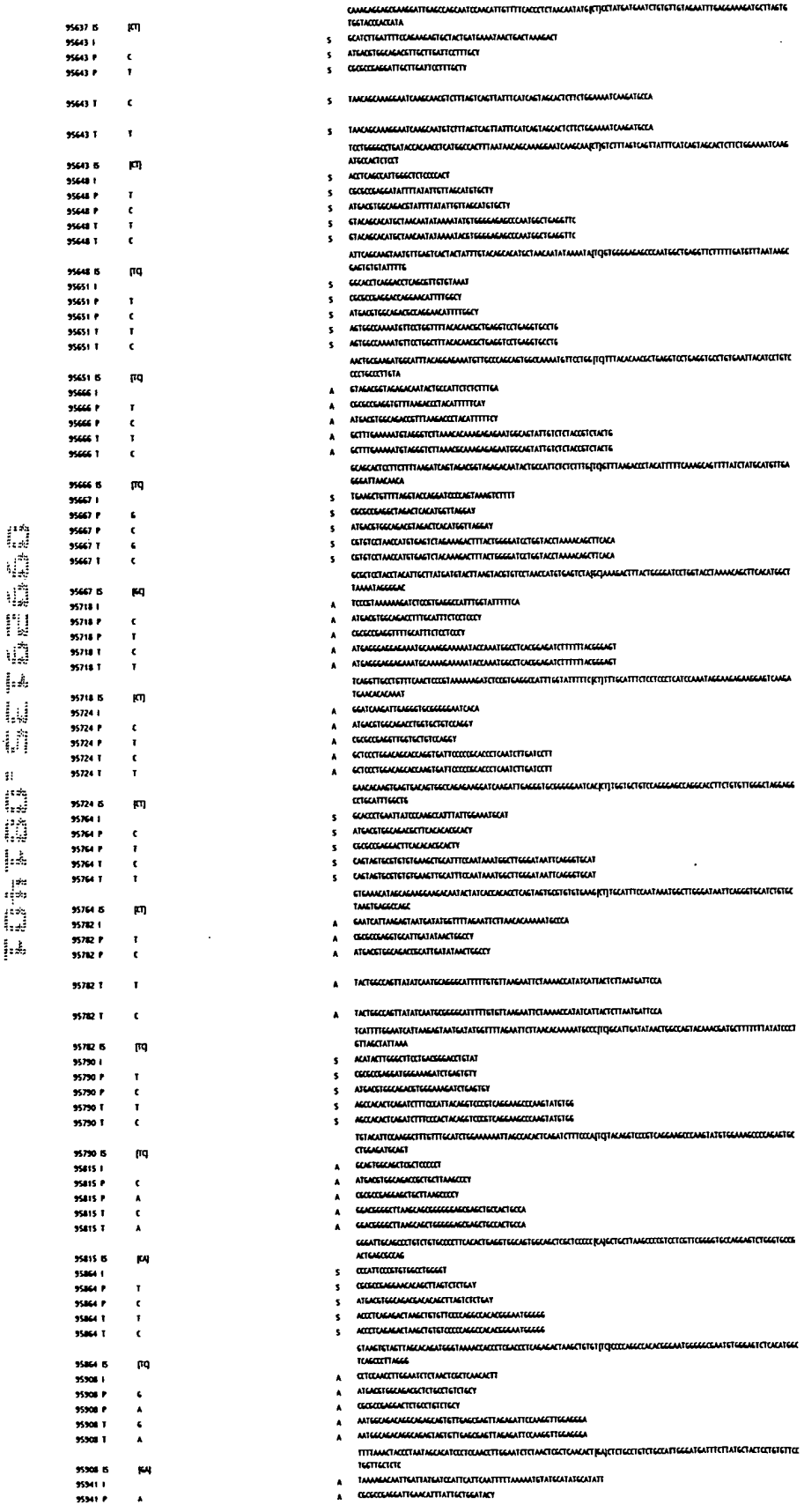


FIGURE 129C





KIAA0972





95941 P G A ATGACGTGGCAGACGTTGAACATTTATTGCTGGATAT

95941 T A A AATAGTATCCAGCAATAAATGTTCAATATATGCATATGCATACATTTTTAAAAATTGAATGAATGGATCATAATCAATTGTCTTTTA

95941 T G A AATAGTATCCAGCAATAAAGTTCAACATATGCATATGCATACATTTTTAAAAATTGAATGAATGGATCATAATCAATTGTCTTTTA

TAAAAGACAATTGATTATGATCCATTCATTCAATTTTAAAAATGTATGCATATGCATATJAGTTGAACATTTATTGCTGGATACTATTTGTTCATTCAAAACAGAATG

95941 IS (AG) TATCAGTGAGGAAA

95979 I S AGGTGAGGCTGGCTCTGTGCGGACT

95979 P T S CGCGCCGAGCAGCAGGCTGGTGTCTCY

95979 P G S ATGACGTGGCAGACCGAGGCTGGTGTCTCY

95979 T T S CAGAGAGACACCAGCCTCTCTCCGCACAGAGCCAGCCTCACCTGA

95979 T G S CAGAGAGACACCAGCCTGCTCCGCACAGAGCCAGCCTCACCTGA

95979 IS (TG) TGGGGGGCCTGGTTTCAGTTCACAGAGCATGCCAGGCCACCCCAGAGAGACACCAGCCTCJTGCTCCGCACAGAGCCAGCCTCACCTGACAGCTTTGTCTGTAGATCAGA CATTTCTCACAT

95984 I S CATATGAAACTGTCTGTTGGCTGCTCACTGGAGATTCTT

95984 P C S ATGACGTGGCAGACGTGAAGACAGAGGATCCCY

95984 P T S CGCGCCGAGGATGAAGACAGAGGATCCCY

95984 T C S GTCAGGGATCCTCTGTCTTCACAGAATCTCGAGTGAGCAGCCAACAGACAGTTTCATATGGT

95984 T T S GTCAGGGATCCTCTGTCTTCATAGAATCTCGAGTGAGCAGCCAACAGACAGTTTCATATGGT

95984 IS (CT) GATTCATTTTTCCTTCAGCTGATGGGACGGTTGACAGTGGTCAGGGATCCTCTGTCTTCAJCTJAGAATCTCGAGTGAGCAGCCAACAGACAGTTTCATATGGTTCCCAAC ATGAACAGGCACA

95996 I S ATTATGTAATTAATGCTACTCACATTAGAGAGATTTAAAAAACTTACCTCAGAATATTTGA

95996 P G S ATGACGTGGCAGACCCATAATTTTCTTTGCTGTGAAY

95996 P A S CGCGCCCAGGTCATAATTTCTTTGCTGTGAAGY

95996 T G S CAATCTTCACAGCAAAGAAAATTATGGCAAATATTCTGAGGTAAGTTTTTTAAATCTCTCTAATGTGAGTAGCATTAATTACATAAT

95996 T A S CAATCTTCACAGCAAAGAAAATTATGACAAATATTCTGAGGTAAGTTTTTTAAATCTCTCTAATGTGAGTAGCATTAATTACATAAT

CAAACATTTTTTGTGCAGATGAATTAGTGATGTCCAATCTTCACAGCAAAGAAAATTATGJGAJCAAATATTCTGAGGTAAGTTTTTTAAATCTCTCTAATGTGAGTAGC ATTAATTACATAAT

95996 IS (GA)

96038 I S CGCCTAGGTCTTCACAATTCACACCTGGGTAGGT

96038 P G S ATGACGTGGCAGACCCTCAAGTATTTTGCTGGAY

96038 P T S CGCGCCGAGGACTCAAGTATTTTGCTGGAAY

96038 T G S GTATTTCCAGCAAAATACTTGAGGCCTACCCAGGTGTGAATTGTGAAGACCTAGGCGGT

96038 T T S GTATTTCCAGCAAAATACTTGAGTCCTACCCAGGTGTGAATTGTGAAGACCTAGGCGGT

GTACTTAAGAGAAGACACACACCCCCAACGATCTCACTGTATTTCCAGCAAAATACTTGAGJGTJCCTACCCAGGTGTGAATTGTGAAGACCTAGGCGGTAAAACCAGAGAT TTCAGGTAAGTCC

96038 IS (GT)

96039 I S GCTTTACTGAAGCCAAAGTTATAAATTTGGCCCAACCCATCAT

96039 P T S CGCGCCGAGGATCAGTCTTACGGGATGAAT

96039 P G S ATGACGTGGCAGACCTCAGTCTTACGGGATGAT

96039 T T S CTGCTTCATCCCGTAAGACTGATTGATGGGTTGGGCCAAATTATAACTTTTGGCTTCAGTAAAGCTG

96039 T G S CTGCTTCATCCCGTAAGACTGAGTGATGGGTTGGGCCAAATTATAACTTTTGGCTTCAGTAAAGCTG

AGTGAAACAGCAGAATCCCAGGAAGCTGAACCTCAACTCTGCTTCATCCCGTAAGACTGAJTGJTGATGGGTTGGGCCAAATTATAACTTTTGGCTTCAGTAAAGCTGTAC AACATTTGGCAAC

96039 IS (TG)

96041 I S GCTCTACCTTGGGAATCACTTCCAATGCTTCTCTATATATGAAAAAGAAATCAAT

96041 P C S ATGACGTGGCAGACGTCACACAAACATTAACCTTATGY

96041 P T S CGCGCCGAGGATCACACAAACATTAACCTTATGY

96041 T C S TTGTCATAAGGTTAATGTTTGTGTGACTTGATTTCTTTTTCATATATAGAGAAGCATTGGAAGTGATTCCCAAGGTAGAGCAA

96041 T T S TTGTCATAAGGTTAATGTTTGTGTGATTTGATTTCTTTTTCATATATAGAGAAGCATTGGAAGTGATTCCCAAGGTAGAGCAA

GCGAAACTAAGAACATTGGGGTTAAAACAAAATTTTGTCATAAGGTTAATGTTTGTGTGAJCTJTTGATTTCTTTTTCATATATAGAGAAGCATTGGAAGTGATTCCCAA GGTAGAGCAACAGC

96041 IS (CT)

96042 I A A AAACAGAGAAACGATTGGATCAGCACAGTGTAAAGAGTTGTTTGT

96042 P C A ATGACGTGGCAGACCTTCTGCTTTAAGTAATGACCTY

96042 P A A CGCGCCGAGGATTCTGCTTTAAGTAATGACCTY

96042 T C A CAAGAGGTCATTACTTAAAGCAGAAGCAAACAACTCTTTACACTGTGCTGATCCAATCGTTTCTCTGTTTGG

96042 T A A CAAGAGGTCATTACTTAAAGCAGAATCAAACAACTCTTTACACTGTGCTGATCCAATCGTTTCTCTGTTTGG

CATCTACAAGTCCCCCAAACAGAGAAACGATTGGATCAGCACAGTGTAAAGAGTTGTTTGJCAJTTCTGCTTTAAGTAATGACCTCTTGCAAAACTGTCAGGTGTCTGAAG AAGATGGGCAGGGG

96042 IS (CA) PCR1

96044 I S GACTTATGGGTAGCCTCCTTCCCCCTACAACTTAAGAT

96044 P T S CGCGCCGAGCAGGATCCTTCCCTCAACY

96044 P C S ATGACGTGGCAGACGGGATCCTTCCCTCAAT

96044 T T S TGTTGTTCAGGGAAGGATCCCTCTTAAGTTGTAGGGGGAAGGAGGCTACCCATAAGTCCT

96044 T C S TGTTGTTCAGGGAAGGATCCCTCTTAAGTTGTAGGGGGAAGGAGGCTACCCATAAGTCCT

GAGGGGCTTGGTTGTTAGGAGCCAGCTGAGGATAGACTTATGTTGTTGAGGGAAGGATCCJTCJTCTTAAGTTGTAGGGGGAAGGAGGCTACCCATAAGTCCTCCTTGAC TCTTAACTTTAGGA

96044 IS (TC)

96045 I A A TCCCCAAGTTCCTTTCAGGGCACACCAGT

96045 P C A CGCGCCGAGGCCCACACTTGGTTGCY

96045 P G A ATGACGTGGCAGACGCCACACTTGGTTGCY

96045 T C A ATTAGCAACCAAGTGTGGGCTGGTGTGCCCTGAAAGGAACTTCGGGAAAA

96045 T G A ATTAGCAACCAAGTGTGGCCTGGTGTGCCCTGAAAGGAACTTGGGGAAA

GCAGAAGTCTTGGTGCTGCCCCACTTCACCTTTCCCCAAGTTCCTTCAGGGCACACCAGJCCJCCACACTTGGTTGCTAATGGTTCCCTTGACAGGTTGGCTACAGCATCC GCTTTGAGGAC

96045 IS (CG)

96047 I A A CCTGCCGTCAATGGGGGCCTGCT

96047 P G A ATGACGTGGCAGACGGCATCGCGGGGY

96047 P A A CGCGCCGAGGAGGCATCGCGGGGY

96047 T G A ATTCCCCGCGATGCCCCAGGCCCCCATTGACGGCAGGAT

96047 T A A ATTCCCCGCGATGCTCCAGGCCCCCATTGACGGCAGGAT

TCCATGGCCACAGGGAACAGCCTCCCACTCACCAGCGATCCTGCCGTCAATGGGGGCCTGCJGAJGCATCGCGCGGGAAGGAACAGACCCCCTGGCTCCTGCAGCCGAGCTCTG CACAGTGACATA

96047 IS (GA)

96049 I S CCACTCATTGGGGTCCAGGTGCCCT

96049 P C S ATGACGTGGCAGACGAGCAAAGGTGGAACGY

96049 P T S CGCGCCGAGGAAGCAAGGTGGAACGY

96049 T C S GTTGCGTTCCACCTTCTCCTCGGGCACCTGGACCCCAATGAGTGGCC

96049 T T S GTTGCGTTCCACCTTCTCCTTGGGCACCTGGACCCCAATGAGTGGCC

TGTCCTCCAGCCATTGCAGGGCCTGGTCCATGGCAGTCCTGTTGCGTTCCACCTTCTCCTJCTJGGGCACCTGGACCCCAATGAGTGGCCCCAACACCTGATGGGGGCAGAC AGTGGGTCAGTC

96049 IS (CT)

96051 I S TGTGGCTGCCTGGTGGGTGGCA

96051 P G S ATGACGTGGCAGACAGCAGCAGCCTTGTTTGCY

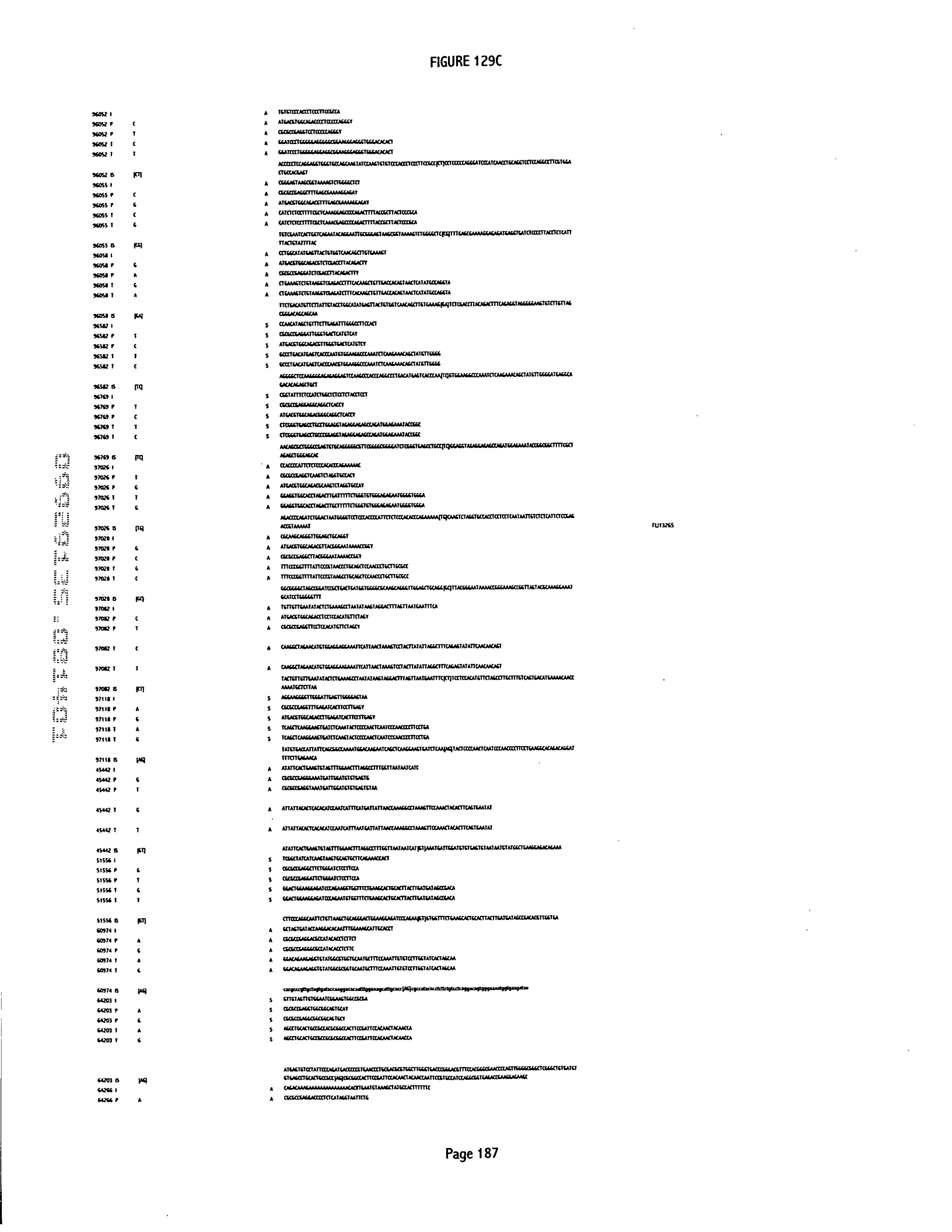
96051 P A S CGCGCCGAGGTAGCAGCCTTGTTTGCY

96051 T G S AGAGGCAAACAAGCTGCTGGCCACCACCAGGCACCCACAC

96051 T A S AGAGGCAAACAAGCTGCTAACCACCACAGGCACCCACAC

TCTGAGCTCTGCTACAGCACCAGGCTGCTGGAGGACACTGCAGAGGCAAACAAGGCTGCTJGAJGCACCCACCAGGCACCCACACCCACCTGCCTGTCCCTAGGGG TACTCAGGATGG

96051 IS (GA)



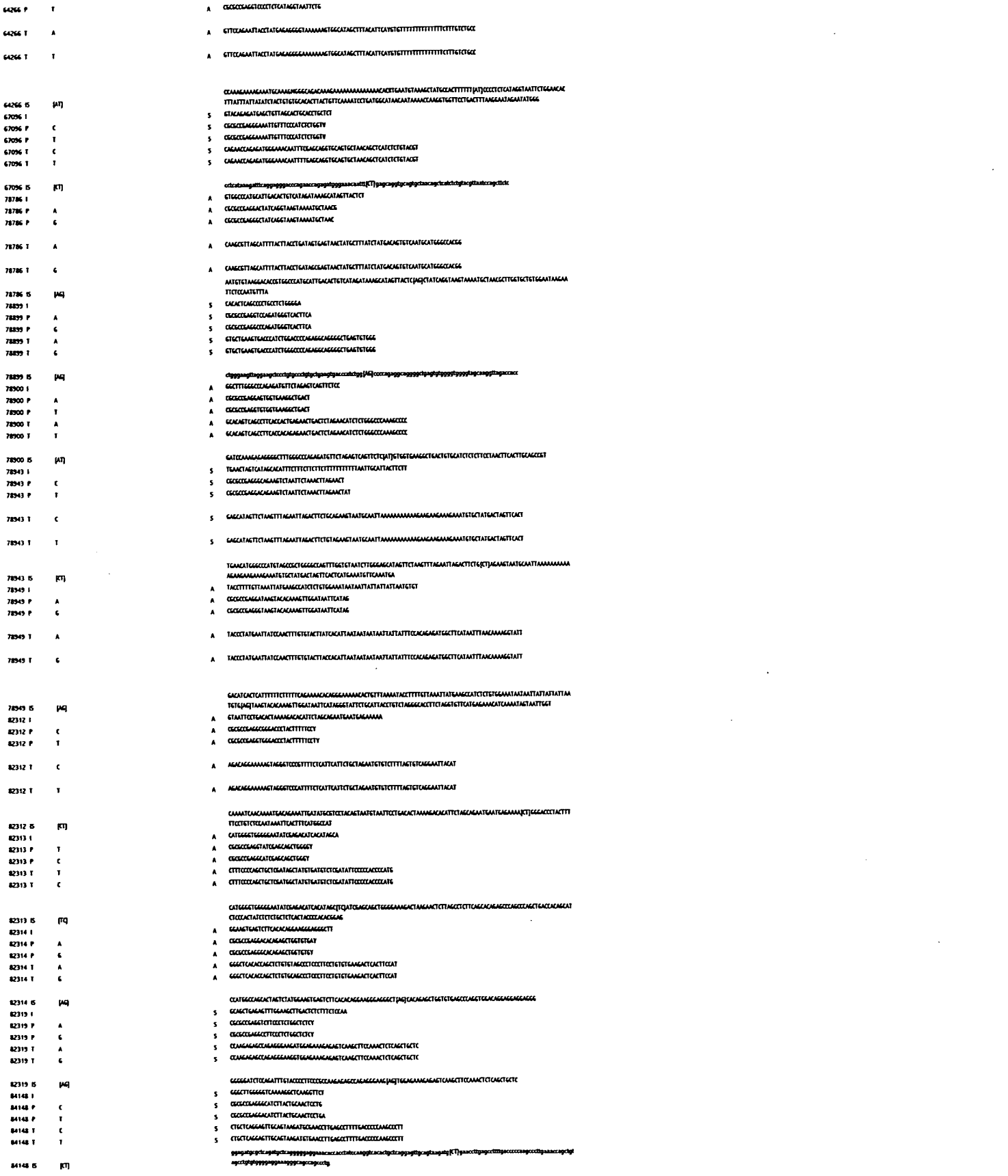


FIGURE 129C

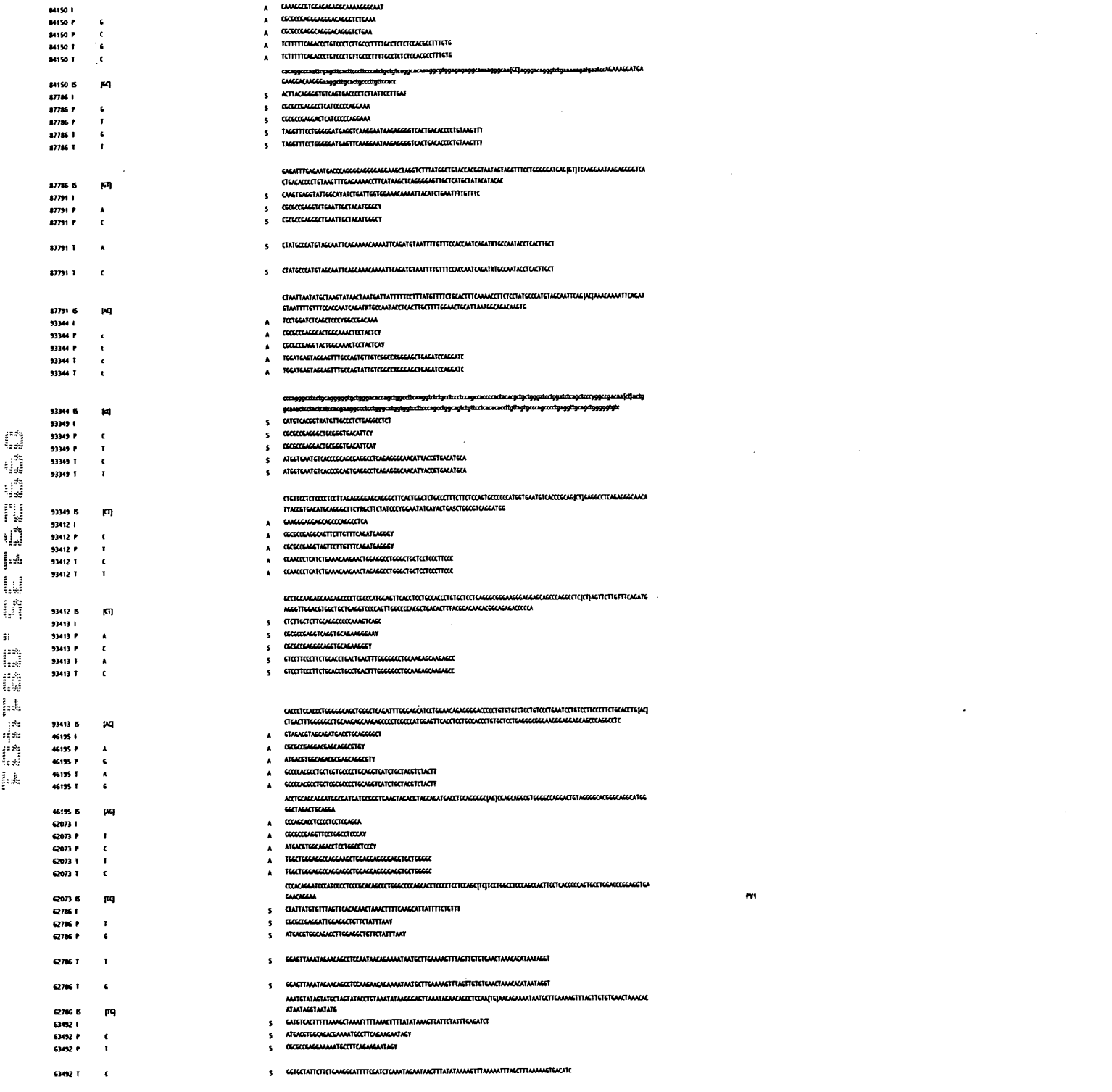


FIGURE 129C

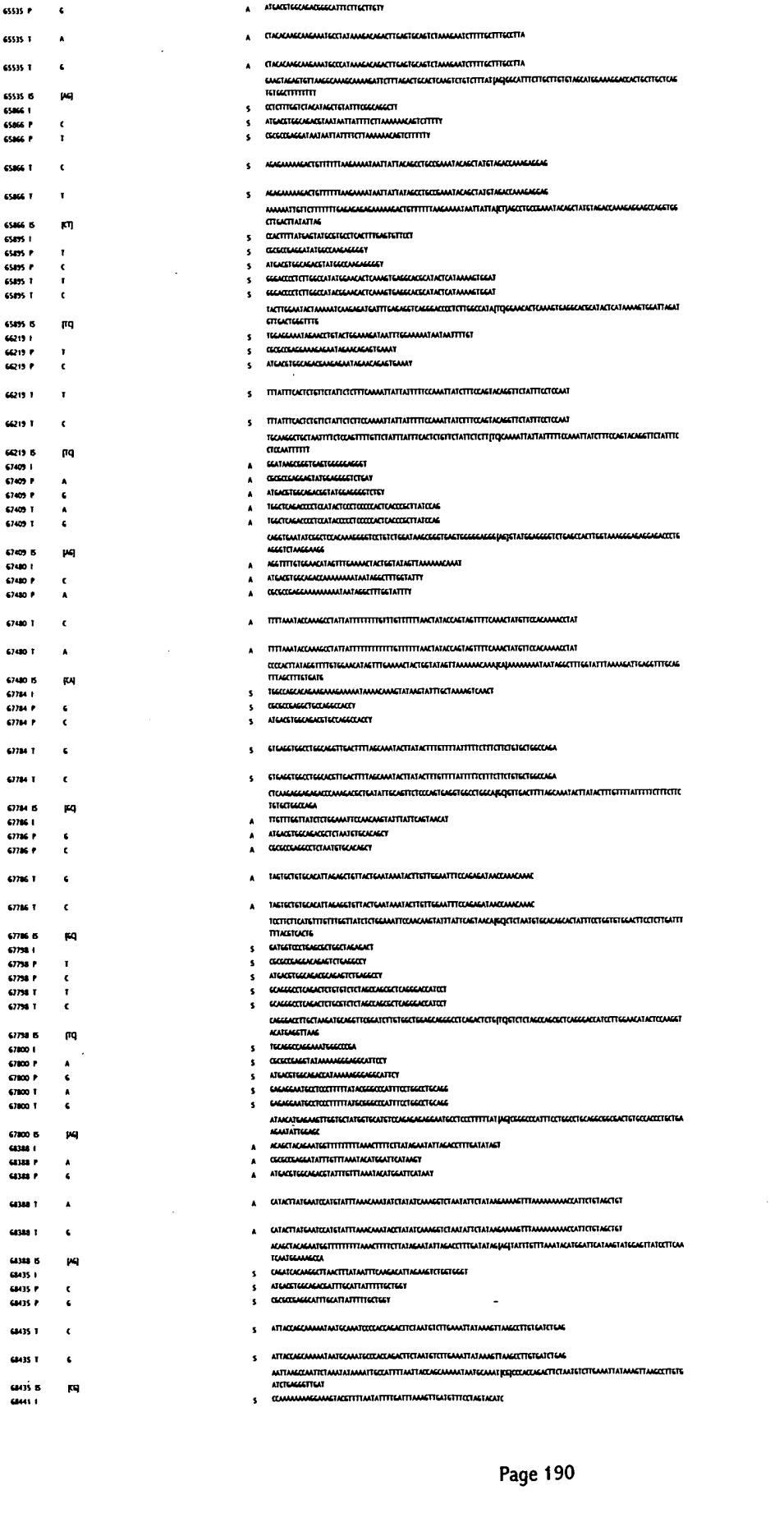
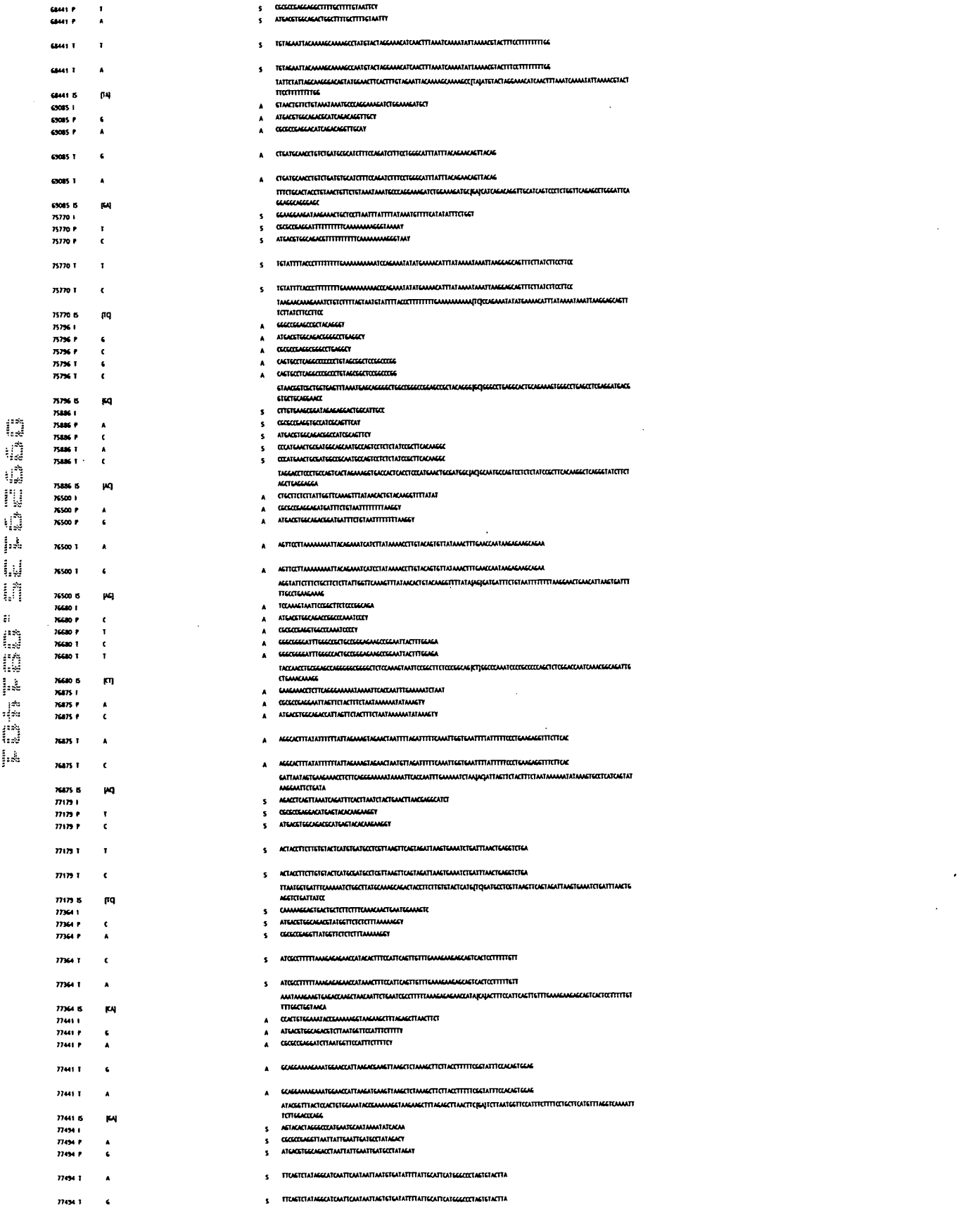


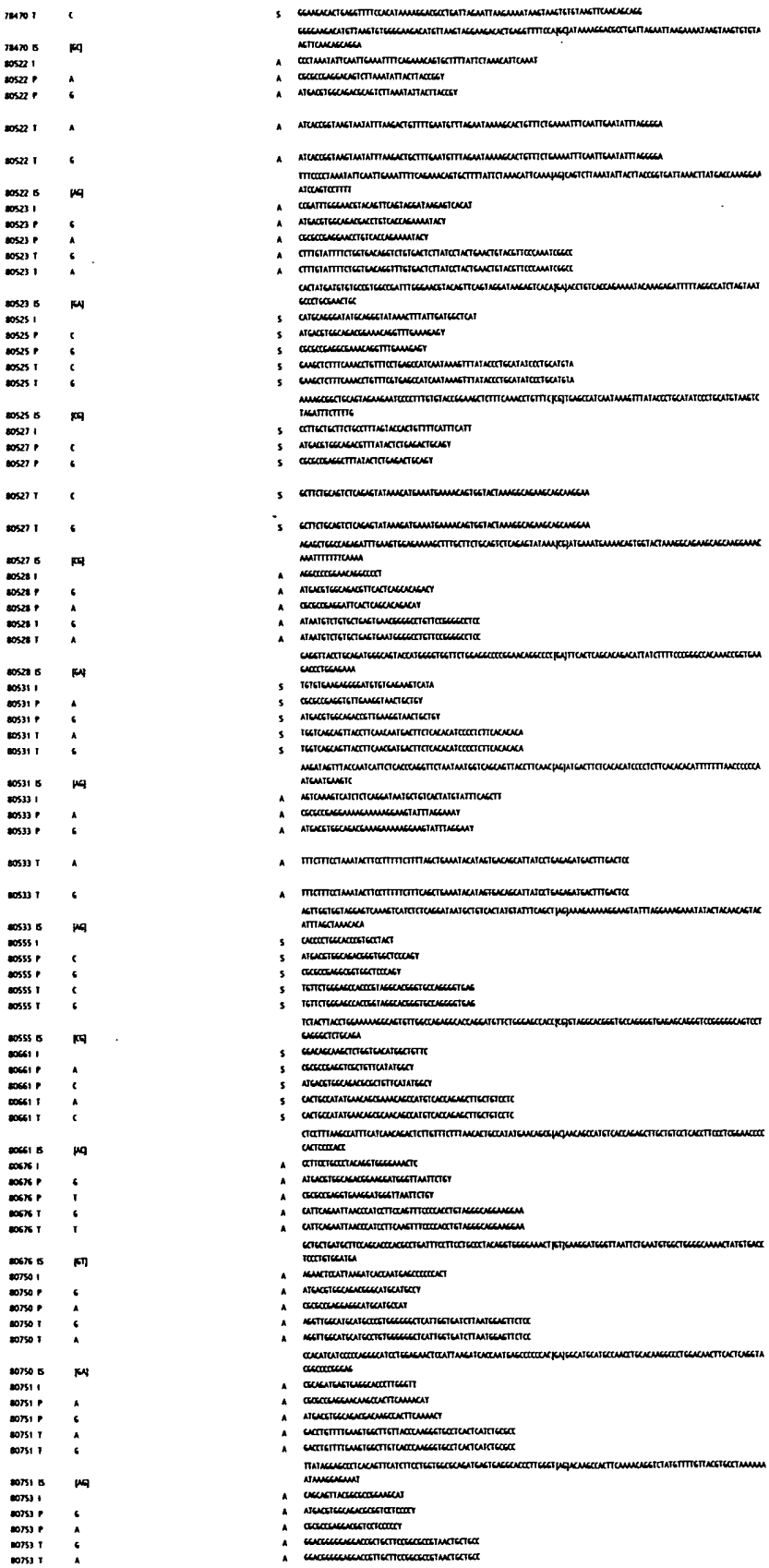
FIGURE 129C





Atty. Docket No. 10578-1010

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77494 IS	(AG)		CTGTTATTGGACA
77578 I		A	TCATATGATATTTCATTTTTAAAAATTCAATTATTAAAATATATTATACTGATGGCTACAA
77578 P	T	A	CGCGCCGAGGTACCATGTATCTGAAAAAAATATTAGAT
77578 P	C	A	ATGACGTGGCAGACCACCATGTATCTGAAAAAATATTAGY
77578 T	T	A	TCAGTCTAATATTTTTTTCAGATACATGGTATGTAGCCATCAGTATAATATATTTTAATAATTGAATTTTTAAAAATGAAATATCATATGA
77578 T	C	A	TCAGTCTAATATTTTTTTCAGATACATGGTGTGTAGCCATCAGTATAATATATTTTAATAATTGAATTTTTAAAAATGAAATATCATATGA
77578 IS	(TC)		TCATATGATATTTCATTTTTAAAAATTCAATTATTAAAATATATTATACTGATGGCTACA[TC]ACCATGTATCTGAAAAAAATATTAGACTGAGATTTTACTTATATGA GCCAAGAAACCAAA
77622 I		S	CCATCATCTCCCGCATCCAGGACTCAAT
77622 P	C	S	ATGACGTGGCAGACGTGTTGCAGAGCTGATGY
77622 P	T	S	CGCGCCGAGGATGTTGCAGAGCTGATGY
77622 T	C	S	GCTTCATCAGCTCTGCAACACTTGAGTCCTGGATGGCGGGAGATGATGGCT
77622 T	T	S	GCTTCATCAGCTCTGCAACATTTGAGTCCTGGATGGCGGGAGATGATGGCT
77622 IS	(CT)		GAGGAGACAGAGCCCTGCGAGTTTTCTCACAAGTCAGGAAGCTTCATCAGCTCTGCAACA[CT]TTGAGTCCTGGATGCCGGGAGATGATGGCTTAAGATATCAGGGCCC AAAGCCTAAGCCC
77783 I		S	TCAACAAGAGGAACTACCAATTGAAAGTCAGGATTATACACCTT
77783 P	C	S	ATGACGTGGCAGACGGTCAAGAGAGAGACGAY
77783 P	T	S	CGCGCCGAGGAGTCAAGAGAGAGACGAGY
77783 T	C	S	CTCCCTCGTCTCTCTCCTCTGACCAGGTGTATAATCCTGACTTTCAATTGGTGGTTCCTCTTGTTGAAG
77783 T	T	S	CTCCCTCGTCTCTCTCTTTGACTAGGTGTATAATCCTGACTTTCAATTGGTGGTTCCTCTTGTTGAAG
77783 IS	(CT)		CATTCTTCCTCTCCCACGCTTCACCTTGGAAGTCCAGTGCTCCCCTCGTCTCTCTCTGAC[CT]AGGTGTATAATCCTGACTTTCAATTGGTGGTTCCTCTTGTTGAAGCTGG TCATCACTGGG
77948 I		S	CTACCTACAGAATAGAGAGTCCAAACTTCCCAAACAC
77948 P	C	S	ATGACGTGGCAGACGGTCCTCTCTGTGACTTY
77948 P	A	S	CGCGCCGAGGTGTCCTCTCTGTGACTTCY
77948 T	C	S	GGACGAAGTCACAGAGAGGAGCCGTGTTGGGAAGTTTGGACTCTCTATTCTGTAGGTAGAT
77948 T	A	S	GGACGAAGTCACAGAGAGGAGCAGTGTTGGGAAGTTTGGACTCTCTATTCTGTAGGTAGAT
77948 IS	(CA)		AATGTAGTGGTCAAGAGGTAGATAAAGAGAAGTAGACAGGGACGAAGTCACAGAGAGGAGC[CA]GTGTTGGGAAGTTTGGACTCTCTATTCTGTAGGTAGATGAAGTAT TTAAAAGAAGAGCC
78008 I		A	GCTGTTACTAATGTTTGGCACCATGACAAATGATTAGATGGAACTTA
78008 P	C	A	ATGACGTGGCAGACGGAGCAATTAATAATACAAATTAAAAY
78008 P	T	A	CGCGCCGAGGTGGAGCAATTAATAATACAAATTAAAATAAT
78008 T	C	A	CCCCTTATTTTAATTTGTATTATTAATTAATTGCTCCGAAGTTCCATCTAATCATTTGTCATGGTGCCAAACATTAGTAACAGCTA
78008 T	T	A	CCCCTTATTTTAATTTGTATTATTAATTAATTGCTCCAAAGTTCCATCTAATCATTTGTCATGGTGCCAAACATTAGTAACAGCTA
78008 IS	(CT)		CTAGGGACATGTTAGCTGTTACTAATGTTTGGCACCATGACAAATGATTAGATGGAACTT[CT]GGAGCAATTAATAATACAAATTAAAATAAGGGGACAAAGCCAGCC AAGGAGAAAAGTAAA
78054 I		S	GGTAGTGGCATTTCTTATTAAATGCATATATGTTATTGACTGTGGGAGAGAACATT
78054 P	T	S	CGCGCCGAGGATCAAACCATGCTAACCATY
78054 P	C	S	ATGACGTGGCAGACGTCAAACCATGCTAACCAT
78054 T	T	S	GCTGATGGTTAGCATGGTTTGATATGTTCTCTCCCACAGTCAATAACATATATGCATTTAATAAGAAATGCCACTACCCA
78054 T	C	S	GCTGATGGTTAGCATGGTTTGACATGTTCTCTCCCACAGTCAATAACATATATGCATTTAATAAGAAATGCCACTACCCA
78054 IS	(TC)		CCGTTCTTCCAGCTCTGACTCTGGAGGCAGGAAACACTGCTGATGGTTAGCATGGTTTGA[TC]ATGTTCTCTCCCACAGTCAATAACATATATGCATTTAATAAGAAATG CCACTACCCAACA
78173 I		A	GCCAGCTGCACTGATTCGAATCGTCTCCAAA
78173 P	T	A	CGCGCCGAGGTACCCCGCAGGCTT
78173 P	C	A	ATGACGTGGCAGACACCCCGCAGGCY
78173 T	T	A	TCAGAGCCTCGCGGGGTATTGGAGACGATTCGAATCAGTGCAGCTGGCTA
78173 T	C	A	TCAGAGCCTCGCGGGGTGTTGGAGACGATTCGAATCAGTGCAGCTGGCTA
78173 IS	(TC)		TGGCGGGCACGTTAGTTACCTGGATGGGTAGCCAGCTGCACTGATCGAATCGTCTCCAA[TC]ACCCCGCAGGCTCTGAGTTGCTGCACTGCTCTCTTTGGGTCAAAGCTG CCAAAGCAGAAA
78185 I		S	CACCTTTGAAAGTAAGACTTTTTTTTAATCCACAAAAACAGATGTATTGTT
78185 P	T	S	CGCGCCGAGGAATTTAATTTACTCTATAATCAAGACTTCAY
78185 P	G	S	ATGACGTGGCAGACCATTTAATTTACTCTATAATCAAGACTTCY
78185 T	T	S	CTAGTGAAGTCTTGATTATAGAGTAAATTAAATTACAATACATCTGTTTTTGTGGATTAAAAAAAAGTCTTACTTTCAAAGGTGAT
78185 T	G	S	CTAGTGAAGTCTTGATTATAGAGTAAATTAAATGACAATACATCTGTTTTTGTGGATTAAAAAAAAGTCTTACTTTCAAAGGTGAT
78185 IS	(TG)		AAGTGCAGAGTAATAAGTTCTGCGTTTCTAGTGAAGTCTTGATTATAGAGTAAATTAAATG[TG]ACAATACATCTGTTTTTGTGGATTAAAAAAAAGTCTTACTTTCAAA GGTGATTCTCCACC
78246 I		A	GAAGCTCTTGAAGGCAATTCTGATTTTGAGAATCACTT
78246 P	A	A	CGCGCCGAGGATCTTCAAATTACATGTCTTAAGTAGY
78246 P	G	A	ATGACGTGGCAGACGTCTTCAAATTACATGTCTTAAGTAGY
78246 T	A	A	AACCCTACTTAAGACATGTAATTTGAAGACAGTGATTCTCAAAATCAGAATTGCCTTCAAGAGCTTCTG
78246 T	G	A	AACCCTACTTAAGACATGTAATTTGAAGACAGTGATTCTCAAAATCAGAATTGCCTTCAAGAGCTTCTG
78246 IS	(AG)		ACCCTGTGACCCTGTGTTTACAGAAGCTCTTGAAGGCAATTCTGATTTTGAGAATCACT[AG]TCTTCAAATTACATGTCTTAAGTAGGGTTGACAATGAGGACATAGA ACCATGTTCCCCT
78255 I		A	CAAAGAAACAGGCTGAAGGTTCTCAACCCACGT
78255 P	A	A	CGCGCCGAGGAGTGGCACTGAGGGY
78255 P	C	A	ATGACGTGGCAGACGTGGCACTGAGGGY
78255 T	A	A	TGGCCCCTCAGTGCCACTGGTGGGTTCAGAACTTCAGCCTGTTCCTTTGCT
78255 T	C	A	TGGCCCCTCAGTGCCACGCGTGGGTTCAGAACTTCAGCCTGTTCCTTTGCT
78255 IS	(AC)		CTTGGTGCCCCAGAAAAGCTCCCTGAAGCAAGGAACAGGCTGAAGGTTCTGAACCCACG[AC]GTGGCACTGAGGGGCCAGAACATTCTGTCAATGGTCCTGCAAGTCCA GCTTTAAATCAAG
78449 I		A	CAGACAACACATTTACAAGACTTTAGAGTAAATGAGAGTAAAATGTATGTCTT
78449 P	A	A	CGCGCCGAGGATTGAATTTAATAAGGAAAAAAATGGGY
78449 P	G	A	ATGACGTGGCAGACGTTGAATTTAATAAGGAAAAAAATGGY
78449 T	A	A	CAAGCCCATTTTTTTCCTTATTAAATTCAATAGACATACATTTTACTCTCATTTACTCTAAAGTCTTGTAAATGTGTTCTCTCAG
78449 T	G	A	CAAGCCCATTTTTTTCCTTATTAAATTCAACAGACATACATTTTACTCTCATTTACTCTAAAGTCTTGTAAATGTGTTCTCTCAG
78449 IS	(AG)		TGGAAACTGAAGAAACACATTTACAAGACTTTAGAGTAAATGAGAGTAAAATGTATGTCT[AG]TTGAATTTAATAAGGAAAAAAATGGGCTTGCATATTGATTTTGCT AGTGCTCCACTTTTA
78470 I		S	TGCTGTTGAACTTACACACTTACTTATTTCTTAATTCTAATCAGGGCTCCTTTTATT
78470 P	G	S	CGCGCCGAGGCTGGAAAACCTCAGTGTCY
78470 P	C	S	ATGACGTGGCAGACGTGGAAAACCTCAGTGTCY
78470 T	G	S	GCAAGACACTCAGGTTTTCCAGATAAAGCAGCCCTGATTAGAATTAAGAAAATAAGTAAGTGTGTAAGTTCAACAGCAGG



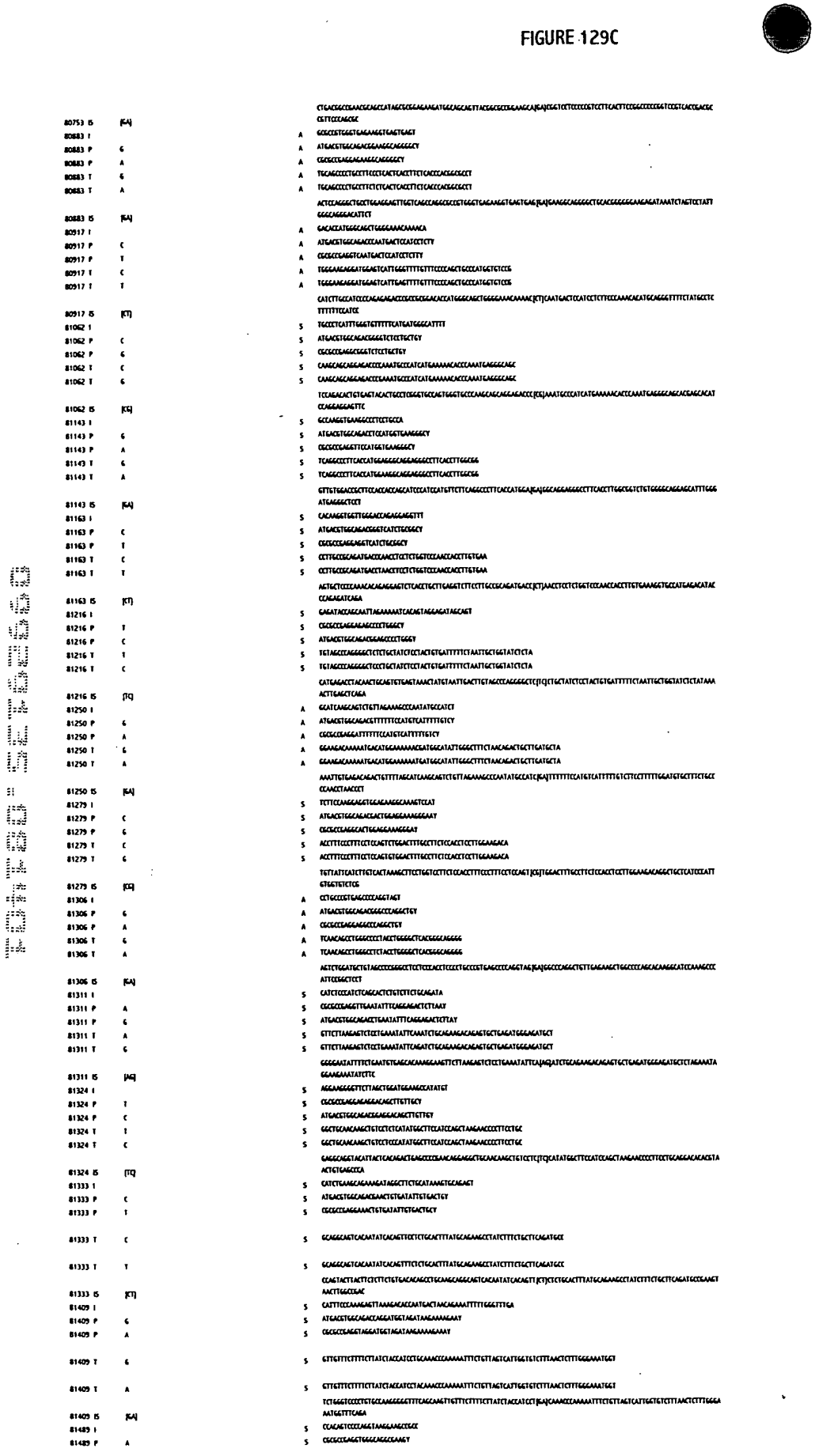
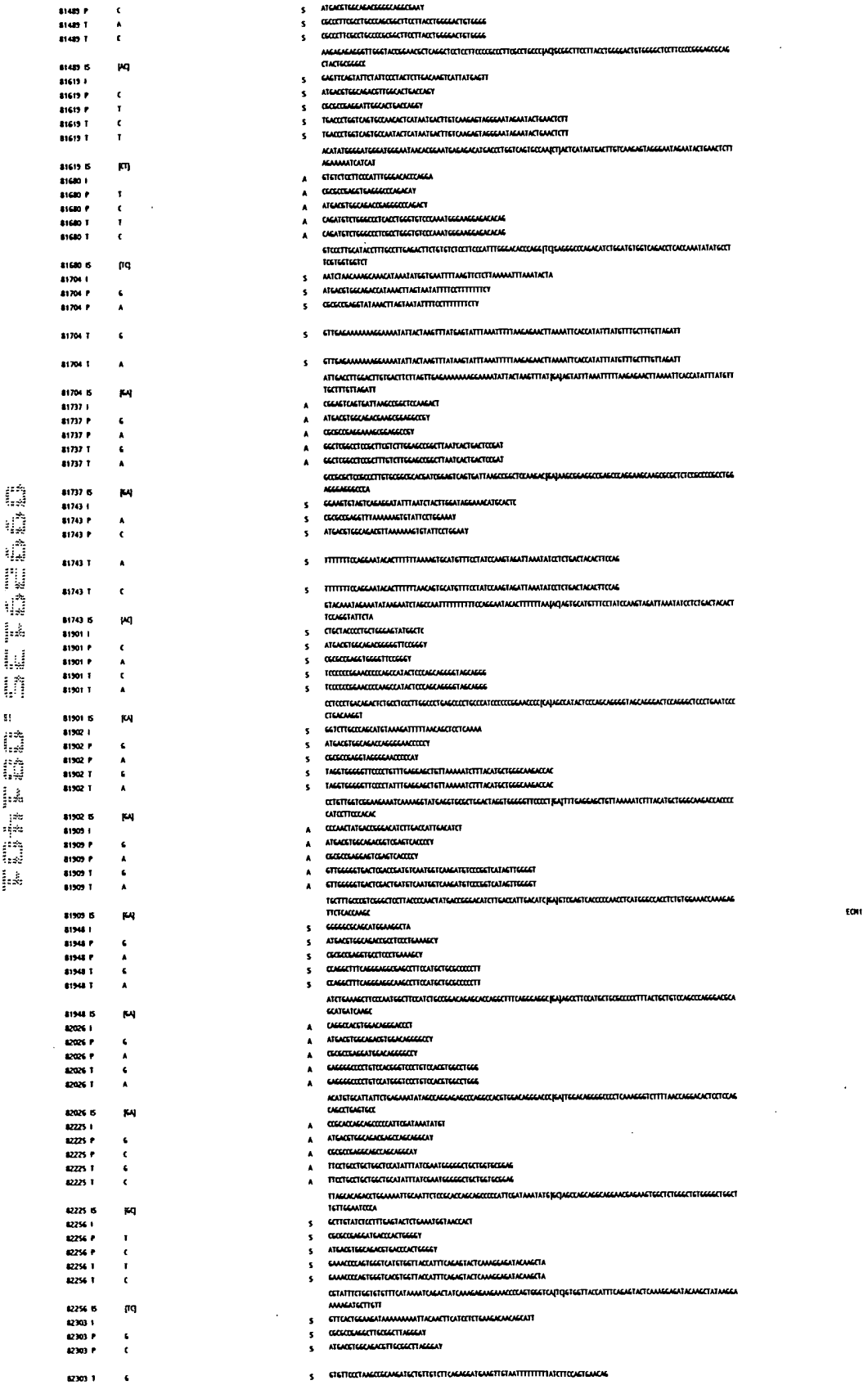
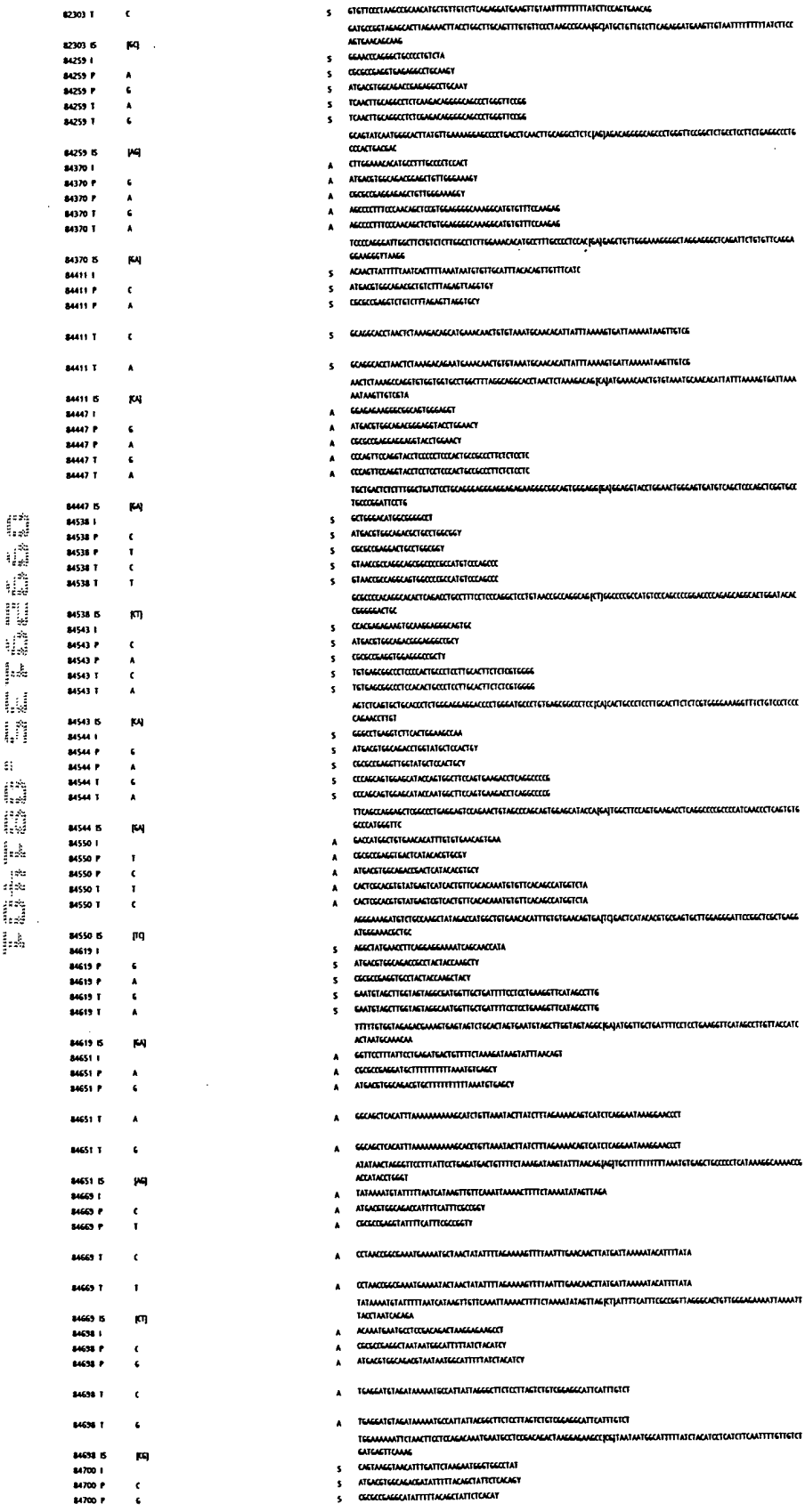
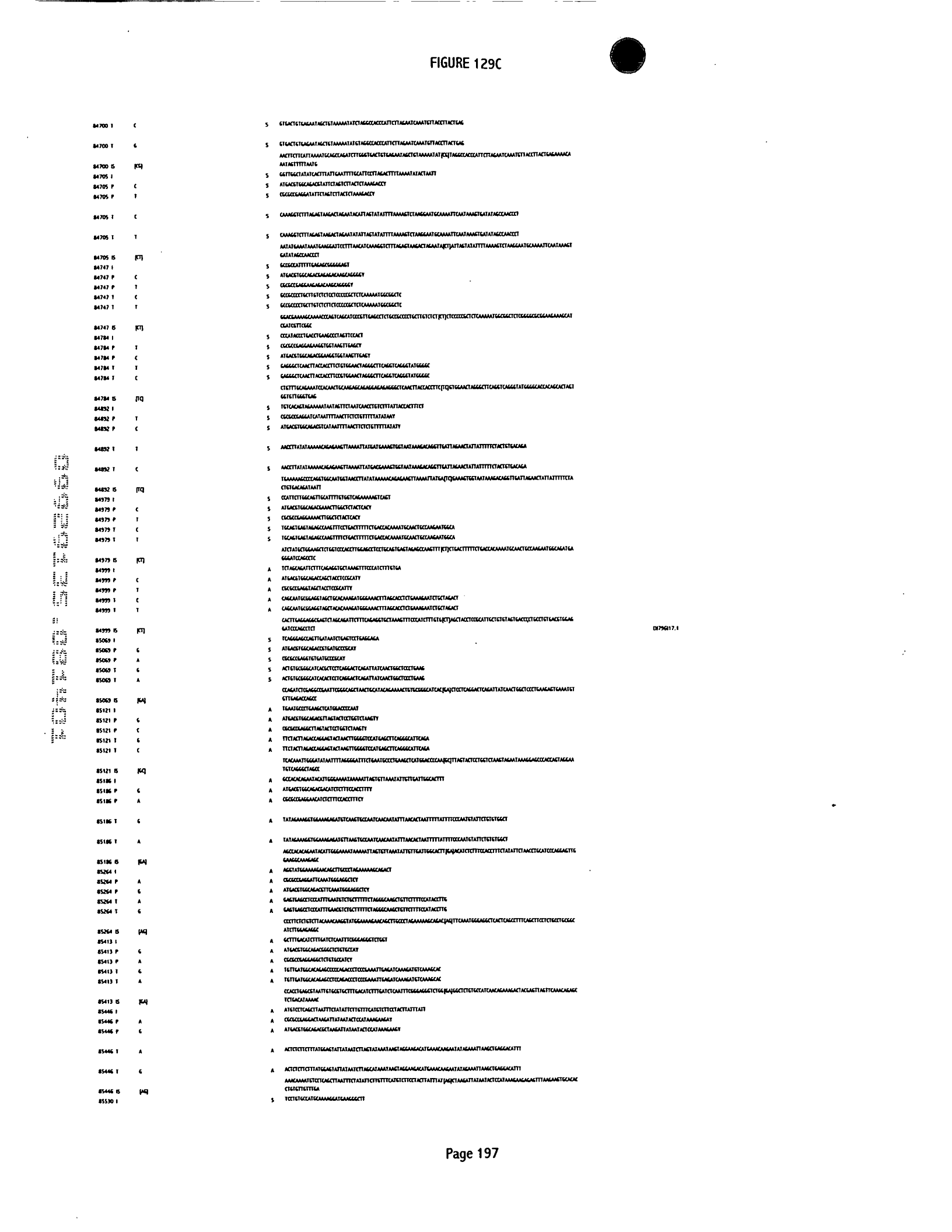
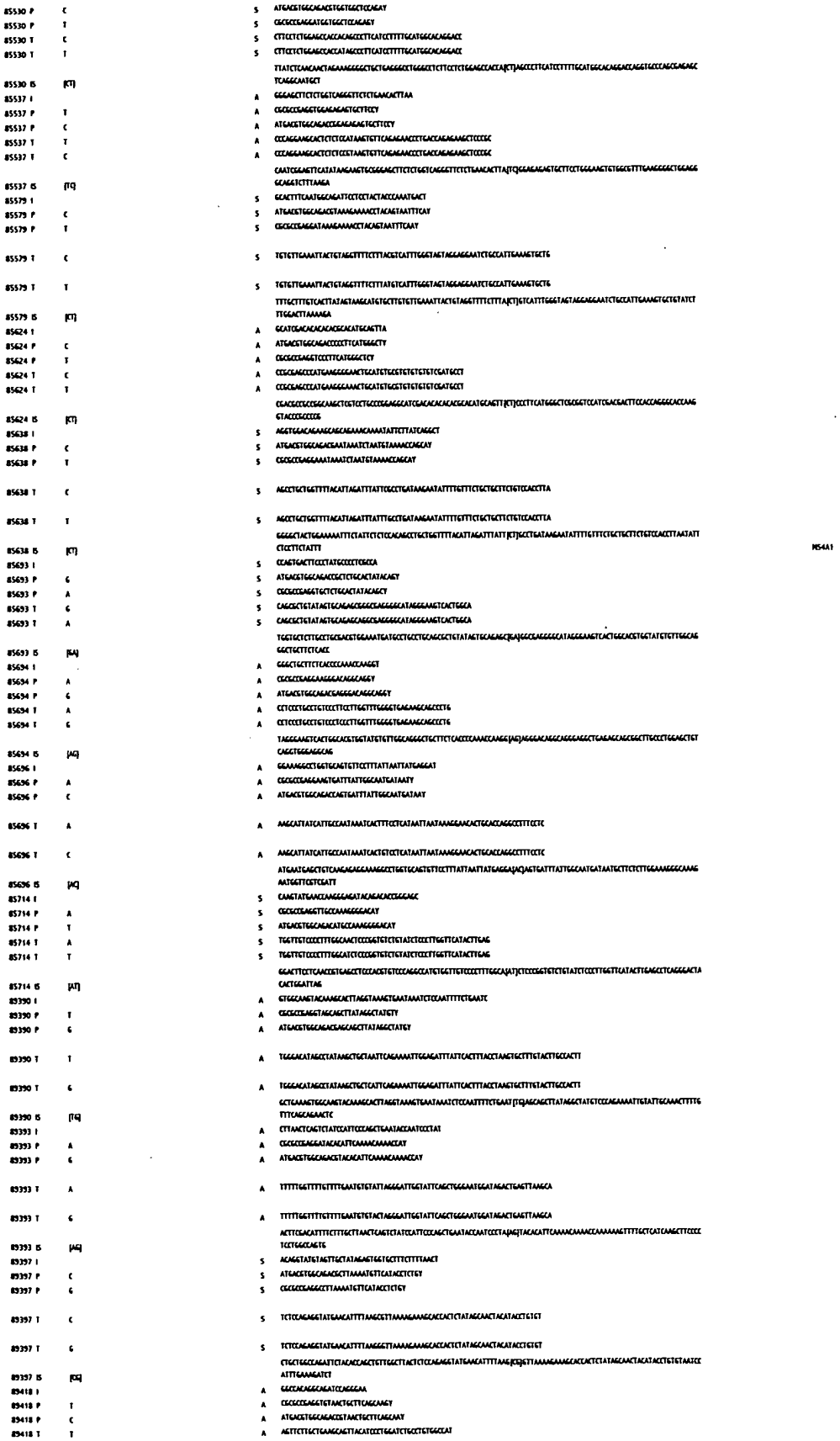


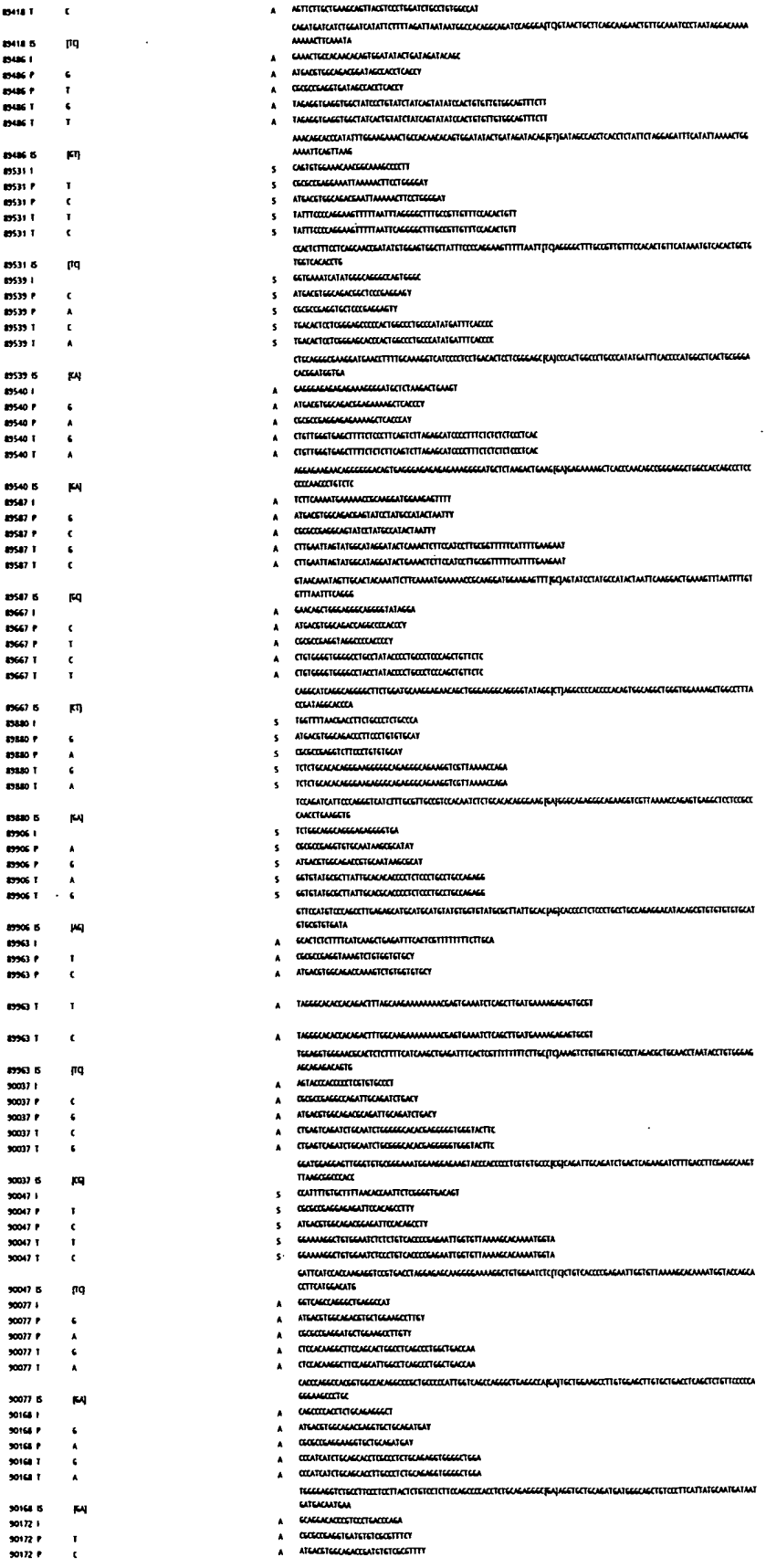
FIGURE 129C

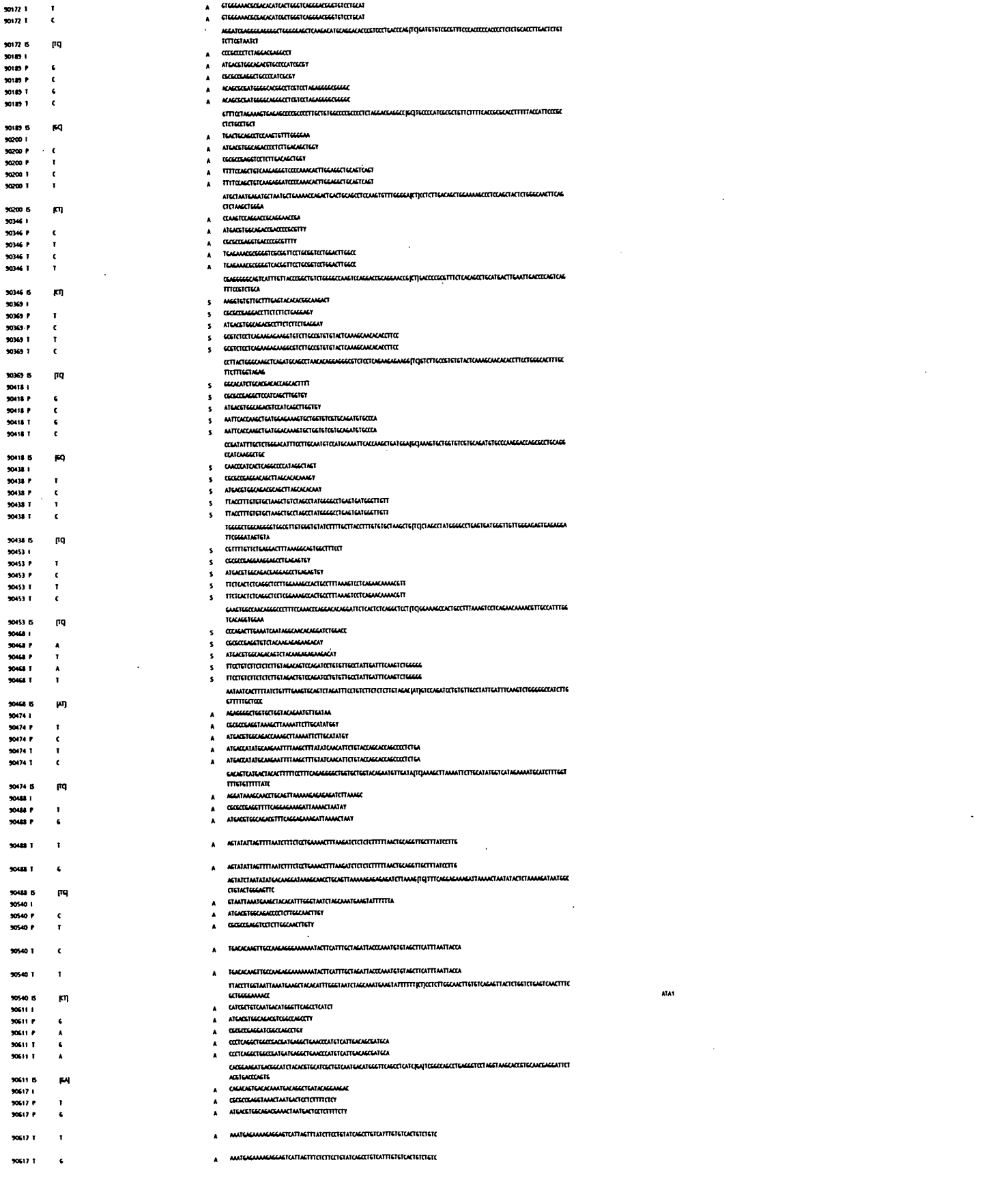


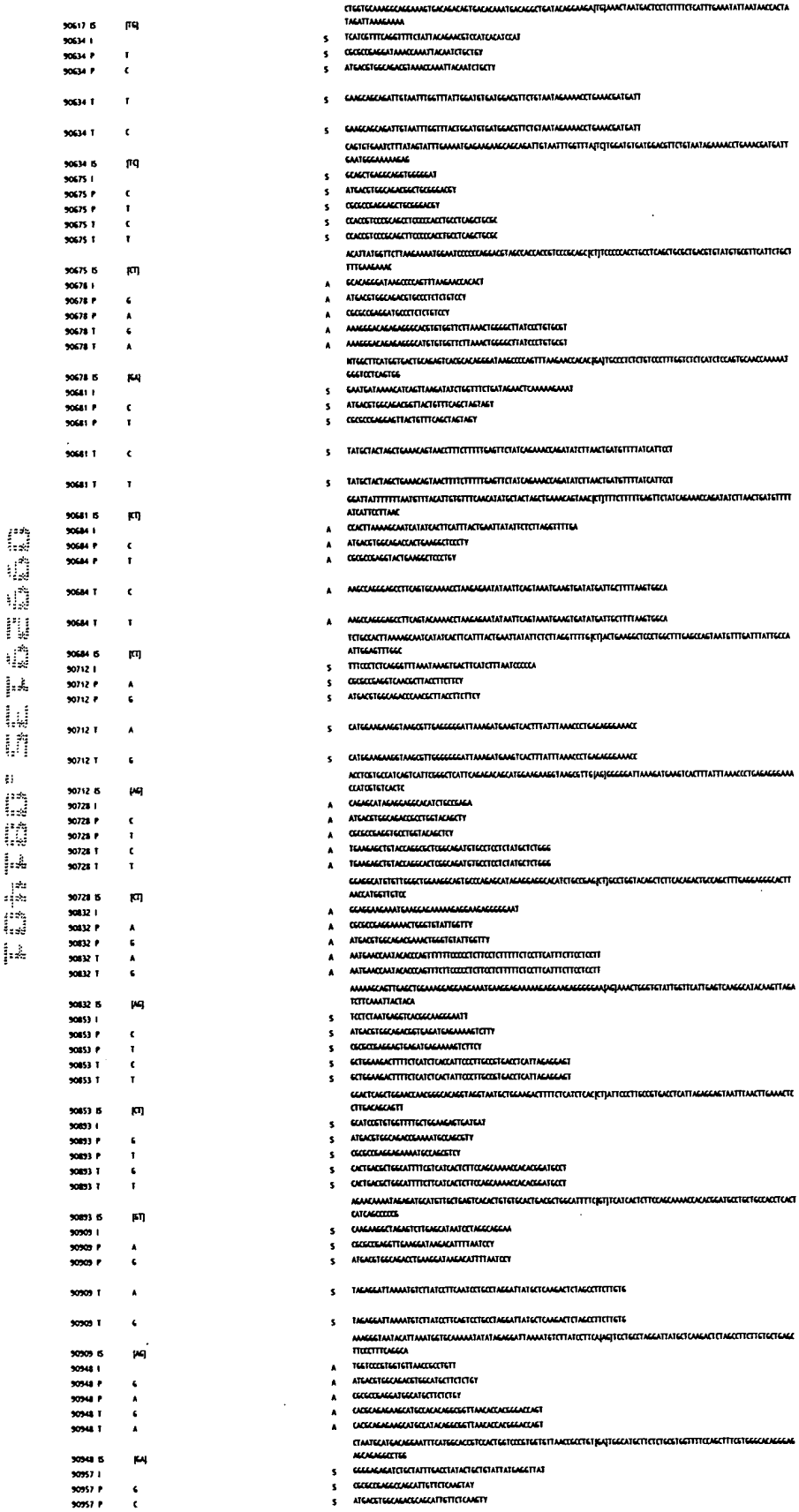


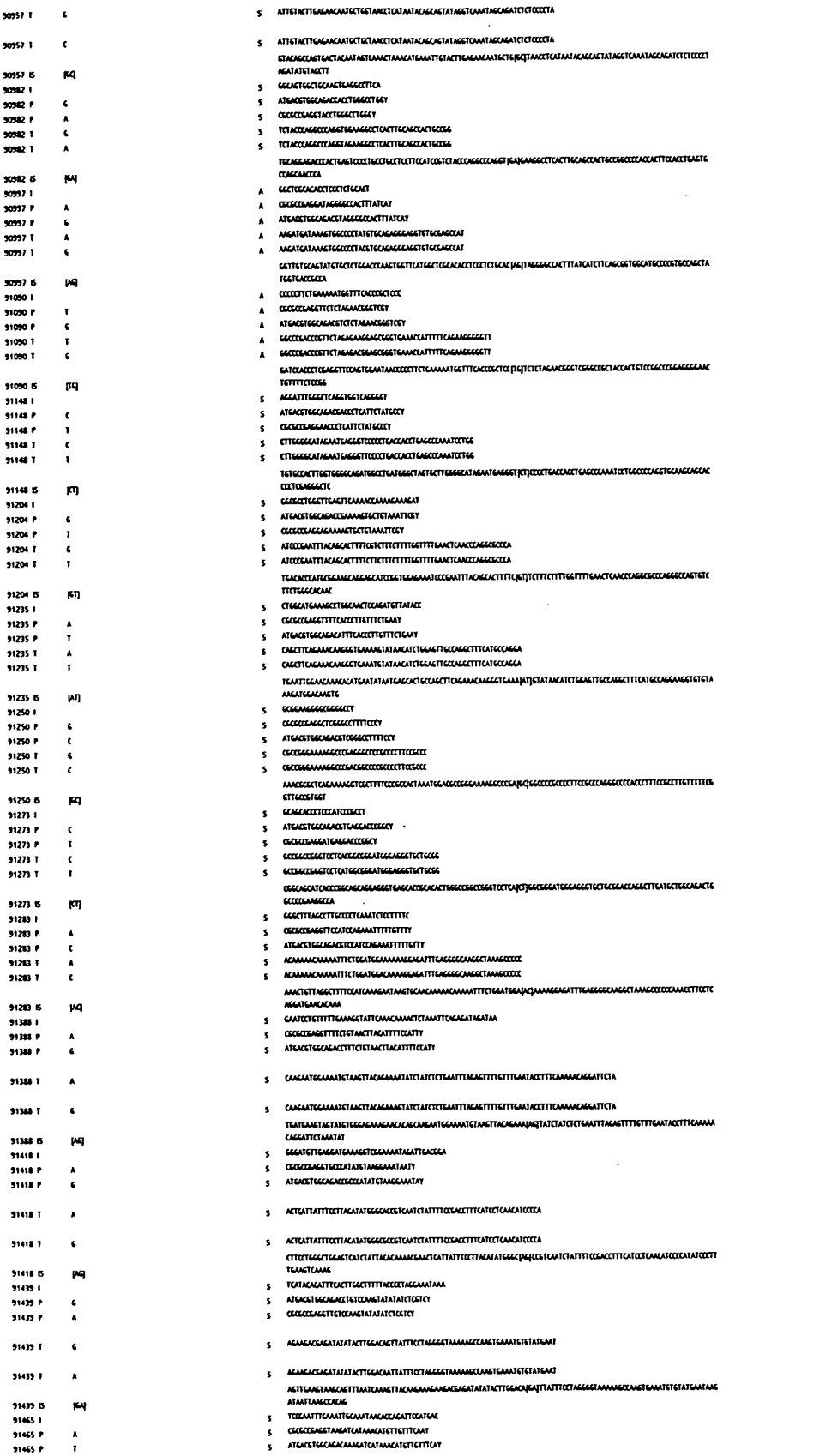

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84700 T G S GTGACTGTGAGAATAGCTGTAAAATATGTAGGCCACCCATTCTTAGAATCAAATGTTACCTTACTGAG
AACTTCTTCATTAAAATGCAGCCAGATCTTGGGTGACTGTGAGAATAGCTGTAAAATATGTAGGCCACCCATTCTTAGAATCAAATGTTACCTTACTGAGAAAACA
84700 IS (CG) AATAGTTTTTAATG
84705 1 S GGTTGGCTATATCACTTTATTGAATTTTGCATTCCTTAGACTTTTAAAATATACTAATT
84705 P C S ATGACGTGGCAGACGTATTCTAGTCTTACTCTAAAGACCY
84705 P T S CGCGCCGAGGATATTCTAGTCTTACTCTAAAGACCY
84705 T C S CAAAGGTCTTTAGAGTAAGACTAGAATACATTAGTATATTTTAAAAGTCTAAGGAATGCAAAATTCAATAAAGTGATATAGCCAACCCT
84705 T T S CAAAGGTCTTTAGAGTAAGACTAGAATATATTAGTATATTTTAAAAGTCTAAGGAATGCAAAATTCAATAAAGTGATATAGCCAACCCT
AATATGAAATAAATGAAGGAATTCCTTTAACATCAAAGGTCTTTAGAGTAAGACTAGAATAGTTATTAGTATATTTTAAAAGTCTAAGGAATGCAAAATTCAATAAAGT
84705 IS (CT) GATATAGCCAACCCT
84747 1 S GCCGCCATTTTTGAGAGCGGGGGAGT
84747 P C S ATGACGTGGCAGACGAGAGACAAGCAGGGGY
84747 P T S CGCGCCGAGGAGAGACAAGCAGGGGY
84747 T C S GCCGCCCCTGCTTGTCTCTCCTCCCCCGCTCTCAAAAATGGCGGCTC
84747 T T S GCCGCCCCTGCTTGTCTCTCTCCCCCGCTCTCAAAAATGGCGGCTC
GGACGAAAAGCAAAACCAGTCAGCATCCCGTTGAGCCTCTGCCGCCCCTGCTTGTCTCTJCTJCTCCCCCGCTCTCAAAAATGGCGGCTCTCGGGGGCGCGGAAGAAAGCAT
84747 IS (CT) CGATCGTTCGGC
84784 1 S CCCATACCCTGACCTGAAGCCCTAGTTCCACT
84784 P T S CGCGCCGAGGAGAAGGTGGTAAGTTGAGCY
84784 P C S ATGACGTGGCAGACGGAAGGTGGTAAGTTGAGY
84784 T T S GAGGGCTCAACTTACTACCTTCCTGTGGAACTAGGGCTTCAGGTCAGGGTATGGGGC
84784 T C S GAGGGCTCAACTTACTACCTTCCGTGGAACTAGGGCTTCAGGTCAGGGTATGGGGC
CTGTTTGCAGAAATCCACAACTCCAAGAGCAGAGCAGAGAGGGCTCAACTTACCACCTTC[T]CTGCTGCAACTAGGGCTTCAGGTCAGGGTATGGGGCACCACAGCACTAGT
84784 IS (TC) GGTGTTGGGTGAG
84852 1 S TGTCACAGTAGAAAAATAATAGTTCTAATCAACCTGTCTTTATTACCACTTTCT
84852 P T S CGCGCCGAGGATCATAATTTTAACTTCTCTGTTTTTATATAAY
84852 P C S ATGACGTGGCAGACGTCATAATTTTAACTTCTCTGTTTTTATATAY
84852 T T S AACCTTATATAAAAACAGAGAAGTTAAAATTATGATGAAAGTGGTAATAAAGACAGGTTGATTAGAACTATTATTTTTCTACTGTGACAGA
84852 T C S AACCTTATATAAAAACAGAGAAGTTAAAATTATGACGAAAGTGGTAATAAAGACAGGTTGATTAGAACTATTATTTTTCTACTGTGACAGA
TCAAAAACCCCAGGTGGCAATGGTAACCTTATATAAAAACAGAGAAGTTAAAATTATGA[T]GAAAGTGGTAATAAAGACAGGTTGATTAGAACTATTATTTTTCTA
84852 IS (TC) CTGTGACAGATAATT
84979 1 S CCATTCTTGGCAGTTGCATTTTGTGGTCAGAAAAAGTCAGT
84979 P C S ATGACGTGGCAGACGAAACTTGGCTCTACTCACY
84979 P T S CGCGCCGAGGAAAACTTGGCTCTACTCACY
84979 T C S TGCAGTGAGTAGAGCCAAGTTTCCTGACTTTTCTGACCACAAAATGCAACTGCCAAGAATGGCA
84979 T T S TGCAGTGAGTAGAGCCAAGTTTTCTGACTTTTCTGACCACAAAATGCAACTGCCAAGAATGGCA
AJCTATGCTGGAAGCTCTGGTCCCACCTTGCAGCCTCCTGCAGTGAGTAGAGCCAAGTTT[C]CTGACTTTTTCTGACCACAAAATGCAACTGCCAAGAATGGCAGATGA
84979 IS (CT) GGGATCCAGCCTC
84999 1 A TCTAGCAGATTCTTTCAGAGGTGCTAAAGTTTCCCATCTTTGTGA
84999 P C A ATGACGTGGCAGACAGCTAGCTACCTCCGCATY
84999 P T A CGCGCCGAGGTAGCTACCTCCGCATTY
84999 T C A CAGCAATGCGGAGGTAGCTGCACAAAGATGGGAAACTTTAGCACCTCTGAAAGAATCTGCTAGACT
84999 T T A CAGCAATGCGGAGGTAGCTACACAAAGATGGGAAACTTTAGCACCTCTGAAAGAATCTGCTAGACT
CACTTCAGCAAGCGAGTCTAGCAGATTCTTTCAGAGGTGCTAAAGTTTCCCATCTTTGTG[CT]AGCTACCTCCGCATTGCTGTGTAGTGACCCJTGCCTGTGACGTGCAG
84999 IS (CT) GATCCCAGCCTCT DI79G17.1
85069 1 S TCAGGGAGCCAGTTGATAATCTGAGTCCTGAGCAGA
85069 P G S ATGACGTGGCAGACCGTGATGCCCGCAY
85069 P A S CGCGCCGAGGTGTGATGCCCGCAY
85069 T G S ACTGTGCGGGCATCACACTCCTCAGGACTCAGATTATCAACTGGCTCCCTGAAG
85069 T A S ACTGTGCGGGCATCACACTCCTCAGGACTCAGATTATCAACTGGCTCCCTGAAG
CCAGATCTCGAGGCCGAATTCGGGCAGCTAACTGCATACACAAAACTGTGCGGGCATCAC[GA]CTCCTCAGGACTCAGATTATCAACTGGCTCCCTGAACAGTGAAATGT
85069 IS (GA) GTTGAGACCAGCC
85121 1 A TGAATGCCCTGAAGCTCATGGACCCCAAT
85121 P G A ATGACGTGGCAGACGTTAGTACTCCTGGTCTAAGTY
85121 P C A CGCGCCGAGGCTTAGTACTCCTGGTCTAAGTY
85121 T G A TTCTACTTAGACCAGGAGTACTAACTTGGGGTCCATGAGCTTCAGGGCATTCAGA
85121 T C A TTCTACTTAGACCAGGAGTACTAAGTTGGGGTCCATGAGCTTCAGGGCATTCAGA
TCACAAATTGGGATATAATTTTAGGGGATTTCTGAATGCCCTGAAGCTCATGGACCCCAA[GC]TTAGTACTCCTGGTCTAAGTAGAATAAAGGAGCCCACCAGTAGGAA
85121 IS (GC) TGTCAGGGCTAGCC
85186 1 A GCCACACAGAATACATTGGGAAAATAAAAATTAGTGTTAAATATTGTTGATTGGCACTTT
85186 P G A ATGACGTGGCAGACATCTCTTTCCACCTTTY
85186 P A A CGCGCCGAGGAACATCTCTTTCCACCTTTCY
85186 T G A TATAGAAAGGTGGAAAGAGATGTCAAGTGCCAATCAACAATATTTAACACTAATTTTTATTTTCCCAATGTATTCTGTGTGGCT
85186 T A A TATAGAAAGGTGGAAAGAGATGTTAAGTGCCAATCAACAATATTTAACACTAATTTTTATTTTCCCAATGTATTCTGTGTGGCT
AGCCACACAGAATACATTGGGAAAATAAAAATTAGTGTTAAATATTGTTGATTGGCACTT[GA]ACATCTCTTTCCACCTTTCTATATTCTAACCTGCATCCCAGGAGTTG
85186 IS (GA) GAAGGCAAAGAGC
85264 1 A AGGTATGGAAAAGAACAGCTTGCCCTAGAAAAAGCAGACT
85264 P A A CGCGCCGAGGATTCAAATGGGAGGCTCY
85264 P G A ATGACGTGGCAGACGTTCAAATGGGAGGCTCY
85264 T A A GAGTGAGCTCCCCATTTGAAGTCTGCTTTTTCTAGGGCAAGCTGTTCTTTTCCATACCTTG
85264 T G A GAGTGAGCTCCCCATTTGAAGTCTGCTTTTTCTAGGGCAAGCTGTTCTTTTCCATACCTTG
CCCTTCTCTGTCTCTACAAACAAGGTATGGAAAAGAACAGCTTGCCCTAGAAAAAGCAGAC[AG]TTCAAATGGGAGGCTCACTCAGCCTTTCAGCTTCCTCTGCCTGCGGC
85264 IS (AG) ATCTTGGAGAGGC
85413 1 A GCTTTGACATCTTTGATCTCAATTTCGGGAGGGTCTGGT
85413 P G A ATGACGTGGCAGACGGGCTCTGTGCCAT
85413 P A A CGCGCCGAGGAGGCTCTGTGCCATCY
85413 T G A TGTTGATGGCACAGAGCCCCCAGACCCTCCCGAAATTGAGATCAAAGATGTCAAAGCAC
85413 T A A TGTTGATGGCACAGAGCCCCCAGACCCTCCCGAAATTGAGATCAAAGATGTCAAAGCAC
CCACCTAGCGTAATTGTGCGTGCTTTGACATCTTTGATCTCAATTTCGGGAGGGTCTGG[GA]GGCTCTGTGCCATCAACAGAAAGACTACGAGTTAGTTCAAACAGAGC
85413 IS (GA) TCTGACATAAAAC
85446 1 A ATGTCCTCAGCTTAATTCTCATATTCTTGTTTCATGTCTTCCTACTTATTTATT
85446 P A A CGCGCCGAGGACTAAGATTATAATACTCCATAAAGAAGAT
85446 P G A ATGACGTGGCAGAGCTAAGATTATAATACTCCATAAAGAAGT
85446 T A A ACTCTCTCTCTTTATGGAGTATTATAATCTTAGTATAAATAAGTAGGAAGACATGAAACAAGAATATAGAAATTAAGCTGAGGACATTT
85446 T G A ACTCTCTCTCTTTATGGAGTATTATAATCTTAGCATAAATAAGTAGGAAGACATGAAACAAGAATATAGAAATTAAGCTGAGGACATTT
AAACAAATGTCCTCAGCTAATTTCTATATTCTGTTTCATGTCTCCTACTTATTTAT[AGC]TAAGATTATAATACTCCATAAAGAAGAGAGTTTAAGAAGTGCACAC
85446 IS (AG) CTGTGTTGTTTGA
85530 1 S TCCTGTGCCATGCAAAAGGATGAAGGGCTT











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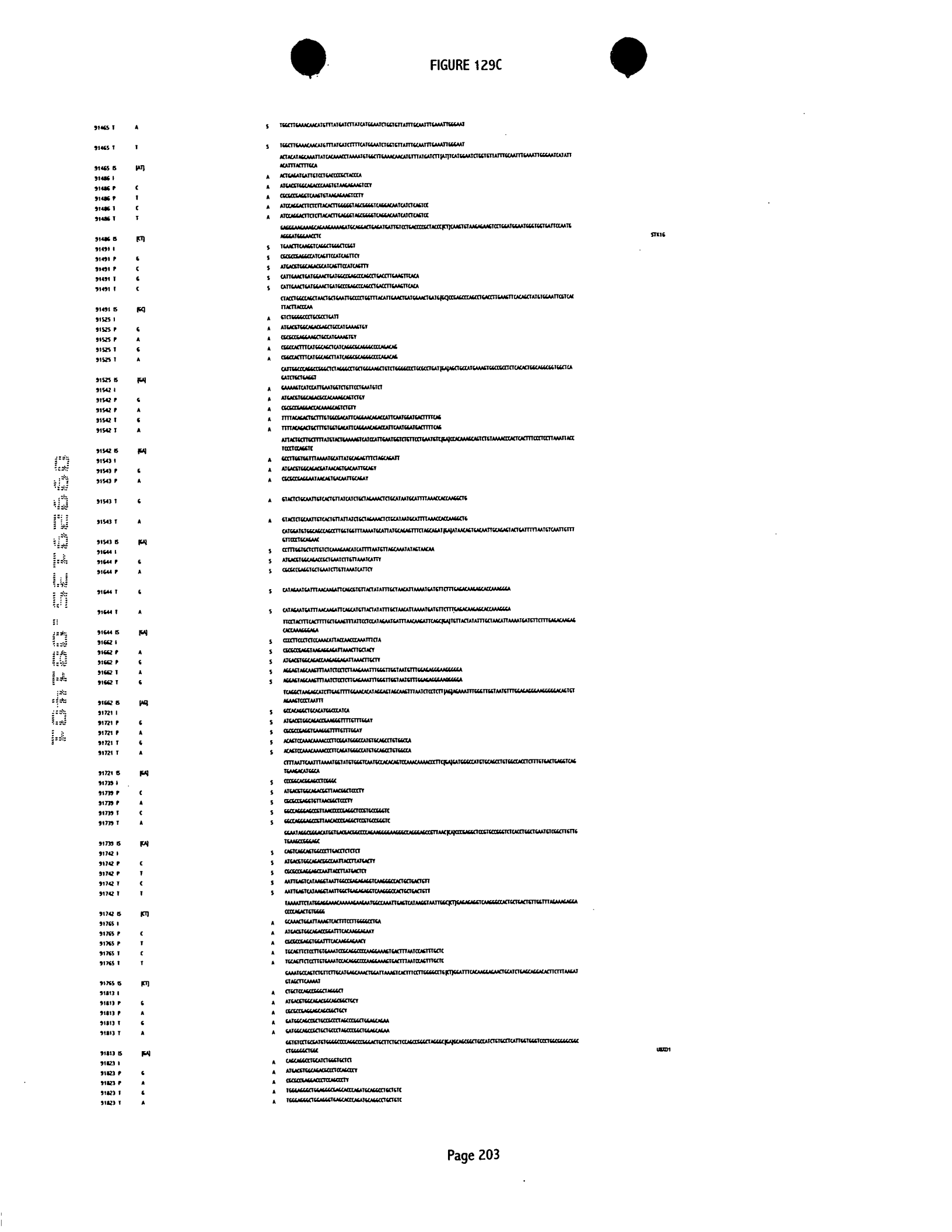


FIGURE 129C

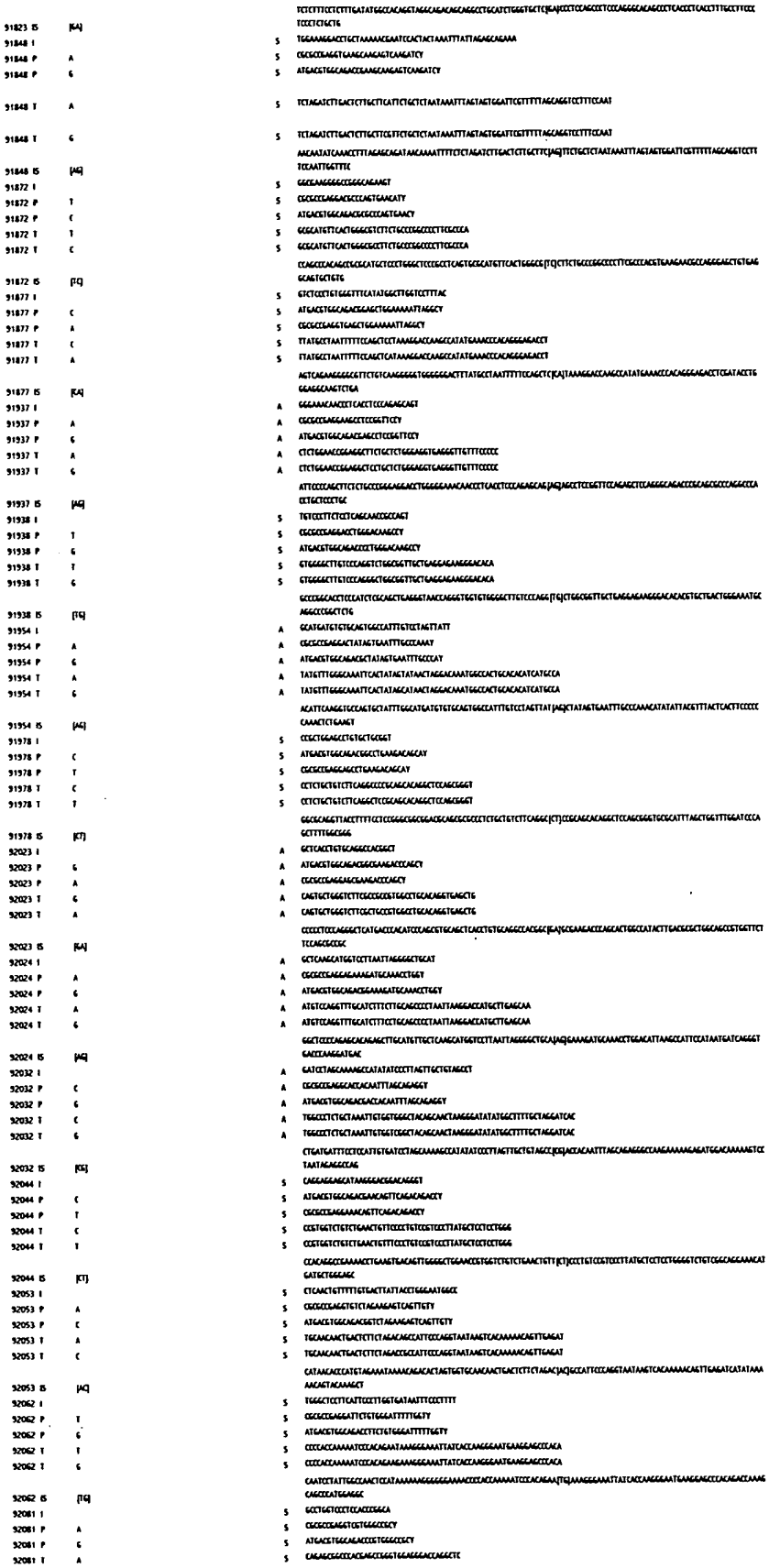
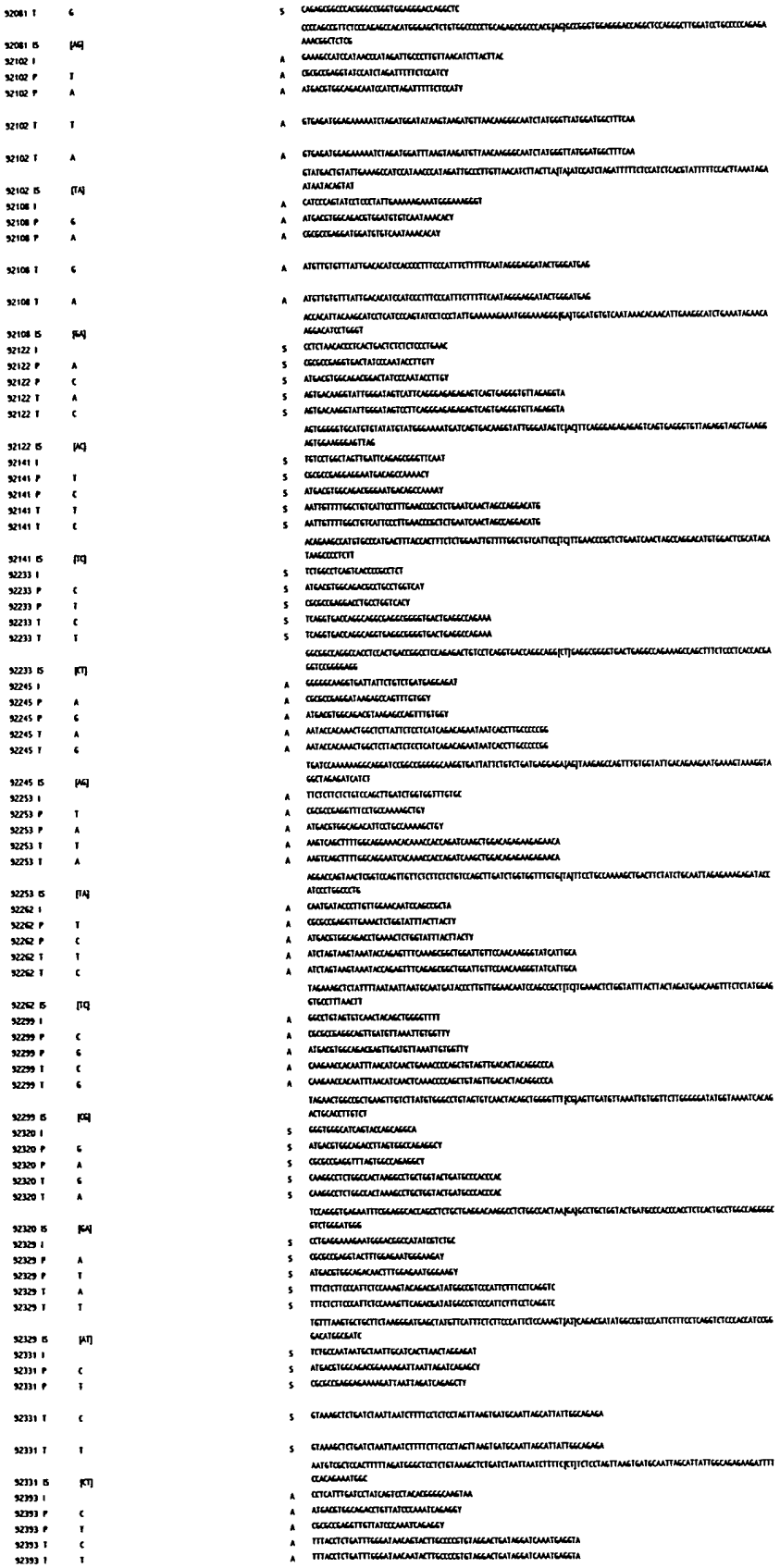


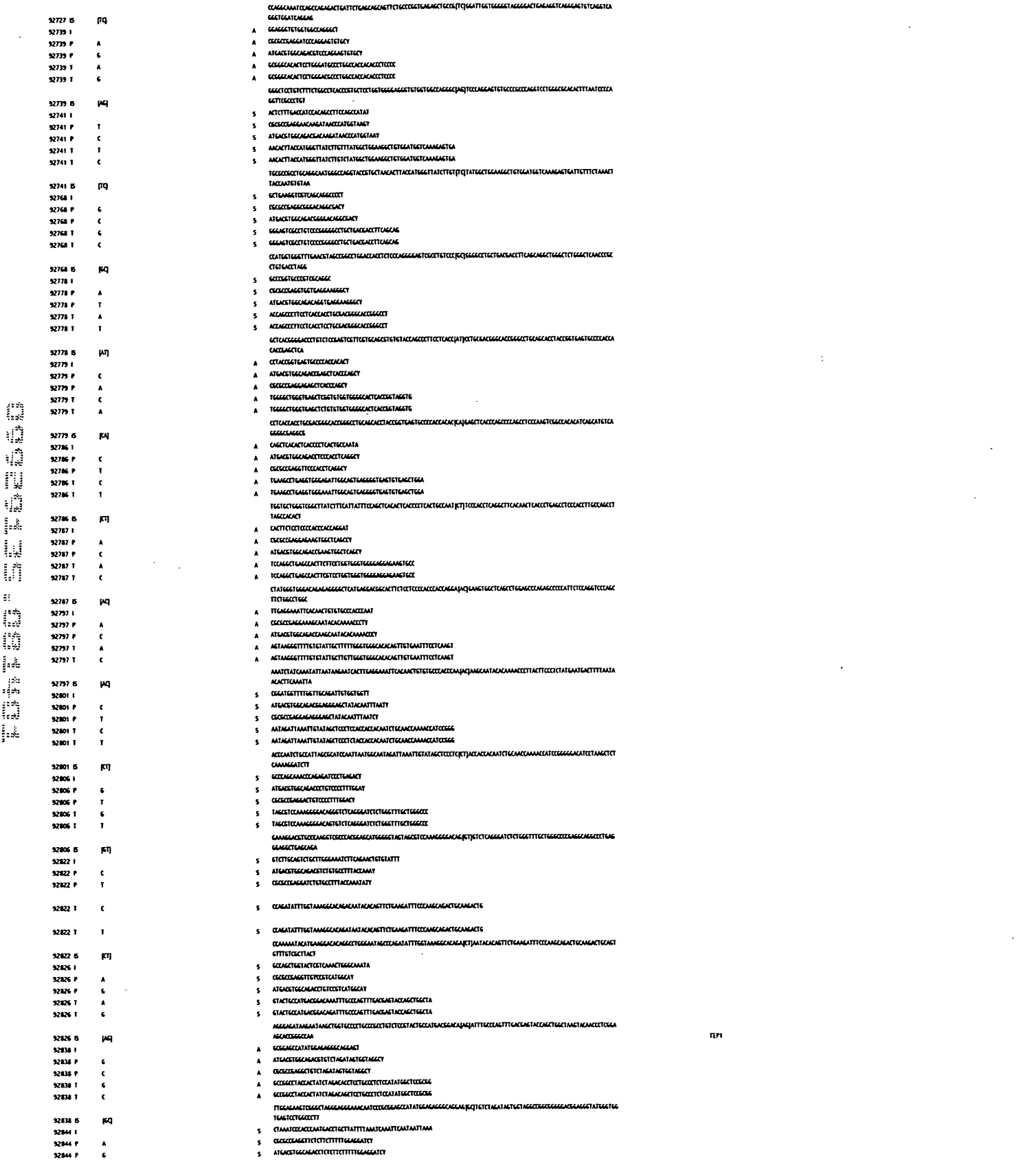
FIGURE 129C







			CACAGTAATTTCAGATTATGCTACCTCATTTGATCCTATCAGTCCTACACGGGGCAAGTA[CT]TGTTATCCCAAATCACAGGTAAATAAAAGATTACAAGAATATTGAAC
92393 IS	[CT]		TGAATTGCACAGC
92394 I		A	CCTCTGGCTACTGCAGCAAAATTCTTCAGATAATCTCAAAAAAGAGA
92394 P	T	A	CGCGCCGAGGTGACATGCTTGCTTCAGY
92394 P	C	A	ATGACGTGGCAGACCGACATGCTTGCTTCAY
92394 T	T	A	ATCTCTGAAGCAAGCATGTCACTCTTTTTTGAGATTATCTGAAGAATTTTGCTGCAGTAGCCAGAGGGA
92394 T	C	A	ATCTCTGAAGCAAGCATGTCGCTCTTTTTTGAGATTATCTGAAGAATTTTGCTGCAGTAGCCAGAGGGA
92394 IS	[TC]		TTTTACCGGGTTTCCCTCTGGCTACTGCAGCAAAATTCTTCAGATAATCTCAAAAAAGAG[TC]GACATGCTTGCTTCAGACATCGGGGTAGGGGCAGAGATACTGAACTA CATTCATATTCCA
92454 I		S	GGCTGGGGAGGCCCCAGCTCA
92454 P	A	S	CGCGCCGAGGTGAGACCCTGGGTCCY
92454 P	G	S	ATGACGTGGCAGACCGAGACCCTGGGTCY
92454 T	A	S	AGCAGGACCCAGGGTCTCAGAGCTGGGGCCTCCCCAGCCTC
92454 T	G	S	AGCAGGACCCAGGGTCTCGGAGCTGGGGCCTCCCCAGCCTC
92454 IS	[AG]		CCCTCCTGTCTCCTCCAAGAACCAGGCAGTGTGGGGTGGGGCAGCAGGAGCCAGGGTCTC[AG]GAGCTGGGGCCTCCCCAGCCTCACTTGGGGCCTCCAAGGCTAAGTTCT GTGACCTCCAGG
92472 I		S	CACACACTGACATTTTCAATTCAGCTCTTTTAGCTTCCCCA
92472 P	G	S	ATGACGTGGCAGACGCACCTGCCTACCCAAT
92472 P	A	S	CGCGCCGAGGTACCTGCCTACCCAATAAT
92472 T	G	S	GTTCTTATTGGGTAGCCAGCTGGGGCAAGCTAAAGAGCTGAATTGAAAATGTCAGTGTGTGCA
92472 T	A	S	GTTCTTATTGGGTAGCCAGCTAGGGCAAGCTAAAGAGCTGAATTGAAAATGTCAGTGTGTGCA
92472 IS	[GA]		GTGGCTGATACAGTACAGGACAGTAATTGCCTTTGAACTGTTCTTATTGGGTAGCCAGGT[GA]GGGCAAGCTAAAGAGCTGAATTGAAAATGTCAGTGTGTGCATCT TCAGTTTCTTCCTCC
92523 I		S	GCAGTGACCCTCTATATACTTGGAAAATAAATGTTCAAACT
92523 P	T	S	CGCGCCGAGGATTTAAATGTCATACGAAGAAGAAAT
92523 P	C	S	ATGACGTGGCAGACGTTTAAATGTCATACGAAGAAGAAT
92523 T	T	S	GTATTTTCTTCTTCGTATGACATTTAAATGTTTGAACATTTATTTTCCAAGTATATGAGAGGGTCACTGCAT
92523 T	C	S	GTATTTTCTTCTTCGTATGACATTTAAACGTTTGAACATTTATTTTCCAAGTATATGAGAGGGTCACTGCAT
92523 IS	[TC]		GGTATCTTTCTTTCCAAGCTCTTGTGAACTCTGTATTTTCTTCTTGTATGACATTTAAA[TC]GTTTGAACATTTATTTTCCAAGTATATGAGAGGGTCACTGCATGTAA CAATCACAAAATG
92532 I		S	AGCCATATTTCTTTTCTGGCACTCATTTCCTAAATCATTTGT
92532 P	C	S	ATGACGTGGCAGACGGCAAATTCTATTAAATCTTGGAAT
92532 P	T	S	CGCGCCGAGGAGCAAATTCTATTAAATCTTGGAAAT
92532 T	C	S	TGGCTTTCCAAGATTTAATAGAATTTGCCCAAATGATTTAGGAAATGAGTGCCAGAAAAGAAATATGGCTCC
92532 T	T	S	TGGCTTTCCAAGATTTAATAGAATTTGCTCAAATGATTTAGGAAATGAGTGCCAGAAAAGAAATATGGCTCC
92532 IS	[CT]		TAGCAGATTATTGAATTAAAGGGGAGGGCACTGGCTTTCCAAGATTTAATAGAATTTGC[CT]CAAATGATTTAGGAAATGAGTGCCAGAAAAGAAATATGGCTCCAA AGATTTTTTTGCAGT
92618 I		A	GGCCCTCAGTGTCAAGCAGGACTAAGGTGC
92618 P	T	A	CGCGCCGAAGTGTCTGGCTTTTTGGGY
92618 P	A	A	ATGACGTGGCAGACAGTTCTGGCTTTTTGGGY
92618 T	T	A	TCACCCCAAAAAGCCAGAACACACCTTAGTCCTGCTTGACACTGAGGGCCTG
92618 T	A	A	TCACCCCAAAAAGCCAGAACTCACCTTAGTCCTGCTTGACACTGAGGGCCTG
92618 IS	[TA]		TCTTTGACCCTTACCTTCCTTTACATCTCCCAGGCCCTCAGTGTCAAGCAGGACTAAGGTG[TA]GTTCTGGCTTTTTGGGGTGAGGCACACACCACATCCAGATTCCTTTGG TGTGAGATTTCA
92623 I		A	ACACGCACTCCAGAGATCCCAGAGTAAAGGGAATTAC
92623 P	T	A	CGCGCCGAGTCCCTGCCAGTCTAGY
92623 P	A	A	ATGACGTGGCAGACACCCTGCCAGTCTAGY
92623 T	T	A	AACCCTAGACTGCAGAGGGATAATTCCCTTACTCTGGGATCTCTGGAGTGCGTGTTC
92623 T	A	A	AACCCTAGACTGCAGAGGTTAATTCCCTTACTCTGGGATCTCTGGAGTGCGTGTTC
92623 IS	[TA]		TCCCCAGGGCCAGAACGTGCCTGAACACGCACTCCAGAGATCCCAGAGTAAAGGGAATTA[TA]CCCTGCCAGTCTAGGGTTGACTTCCTCTGTCTCGGGAAGCTGTAGAA ATGGTTTAGATG
92648 I		A	TTGGTGGAGAAGTTTACATAATAGAATTCAATTCTAGTTCTTTTCTTTTTTC
92648 P	T	A	CGCGCCGAGGTTCTCCTTGCAAGGAATATY
92648 P	A	A	ATGACGTGGCAGACATTCTCCTTGCAAGGAATATY
92648 T	T	A	TCTCATATTCCTTGCAAGGAGAAAAAAAAAAGAAAAGAACTAGAATTGAATTCTATTATGGTAAACTTCTCCACCAACT
92648 T	A	A	TCTCATATTCCTTGCAAGGAGAATAAAAAAAGAAAAGAACTAGAATTGAATTCTATTATGGTAAACTTCTCCACCAACT
92648 IS	[TA]		TCAGAAGTTGGTGGAGAAGTTTACCATAATAGAATTCAATTCTAGTTCTTTTCTTTTTTT[TA]TTCTCCTTGCAAGGAATATCAGAATGATACTATAGCTTTAGTTTTCA TGTAAAATTTATAA
92685 I		S	GGTTGCTTCTGCCTTCAACCCATTCCCCA
92685 P	A	S	CGCGCCGAGGTAGCCCCACTTCAGCY
92685 P	G	S	ATGACGTGGCAGACCAGCCCCACTTCAGCY
92685 T	A	S	TGAAGCTGAAGTGGGCCTAGGGGAATGGGTTGAAGCCAGAAGCAACCAG
92685 T	G	S	TGAAGCTGAAGTGGGCCTGGGGGAATGGGTTGAAGCCAGAAGCAACCAG
92685 IS	[AG]		TCCTGGGGTTCTCCCAAGTTTGAGAGCATGGATGCATGCTTTGAAGCTGAAGTGGCCT[AG]CGGGAATGGGTTGAAGCCAGAAGCAACCAGTTTGGAGGGAAGGCA TTTGGATATCCAGCC
92690 I		A	ACCCGCGACCCCGGCTACGT
92690 P	G	A	ATGACGTGGCAGACGTTCTCCTTGGCTCCTGY
92690 P	A	A	CGCGCCGAGGATTCTCCTTGGCTCCTGCY
92690 T	G	A	CAGGGCAGGAGCCAAGAGAACCGTAGCCGCGGTCGCGGGTTG
92690 T	A	A	CAGGGCAGGAGCCAAGAGAATCGTAGCCGCGGTCGCGGGTTG
92690 IS	[GA]		GCGCGATCGCCGAGCCGCGCTGTCCGGGTGGTGGGAGCTCAACCCGCACGCGCGCTACC[GA]ATTCTCTTGGCTCCTGCCCTGCCTTAGTCGCTCTGCGGGGTTGGTTCG GTCCCGGCACTT
92695 I		S	CAAATTTGGGGATTCTCGACAGGGGTTTGACTGTC
92695 P	A	S	CGCGCCGAGGTTGGGATTTATGCCTCAAGY
92695 P	T	S	ATGACGTGGCAGACATGGGATTTATGCCTCAAGY
92695 T	A	S	TTAGTTGAGGCATAAATCCCAAACAGTCAAACCCCTGTCCAGAATCCCCAAAATTTCCT
92695 T	T	S	TTAGTTGAGGCATAAATCCCATACAGTCAAACCCCTGTCCAGAATCCCCAAAATTTCCT
92695 IS	[AT]		AGTCATGTGTCTGCAGAGGACTCCGCTAGGTTCTCCCTTAGCTTGAGGCATAAATCCCA[AT]ACAGTCAAACCCCTGTCCAGAATCCCCAAAATTTCCTCTCGAAGTACTT TGCGCAGGCTAT
92707 I		S	TCAGATCCCTCTCCCCTCCTCTTCCTCCTCTATTATTT
92707 P	T	S	CGCGCCGAGGACCTTCTTCCTATTTCCTTCTY
92707 P	C	S	ATGACGTGGCAGACGCCTTCTTCCTATTTCCTTCY
92707 T	T	S	AAAGAGAAGCAAATAGGAAGAAGGTAATAATAGAGAGGAGAACAGAGGGAGAAGGGAATCTGAGA
92707 T	C	S	AAAGAGAAGCAAAATAGGAAGAAGGCAATAATAGAGAGGAGAACAGAGGGAGAAGGGAATCTGAGA
92707 IS	[TC]		TTGGTGCAGGGTGCATTAAAAAACACTTGGCCAATGAAAGAAAGGAAATAGCAAGAAGG[TC]AATAATAGAGAGGAGAACAGAGGGAGAAGGGAATCTGAGAGATG CTGAGAAGGGGTGGGG
92727 I		S	CCTCTCAGTCCCCTACCCCCACCAATCCT
92727 P	T	S	CGCGCCGAGCAGCGGCAGCTCTCACY
92727 P	C	S	ATGACGTGGCAGCAGCGGCAGCTCTCAT
92727 T	T	S	CCCGGTGAGAGCTGCCGTGAATTGGTGGGGGTAGGGGACTGAGAGGTC
92727 T	C	S	CCCGGTGAGAGCTGCCGCGAATTGGTGGGGGTAGGGGACTGAGAGGTC



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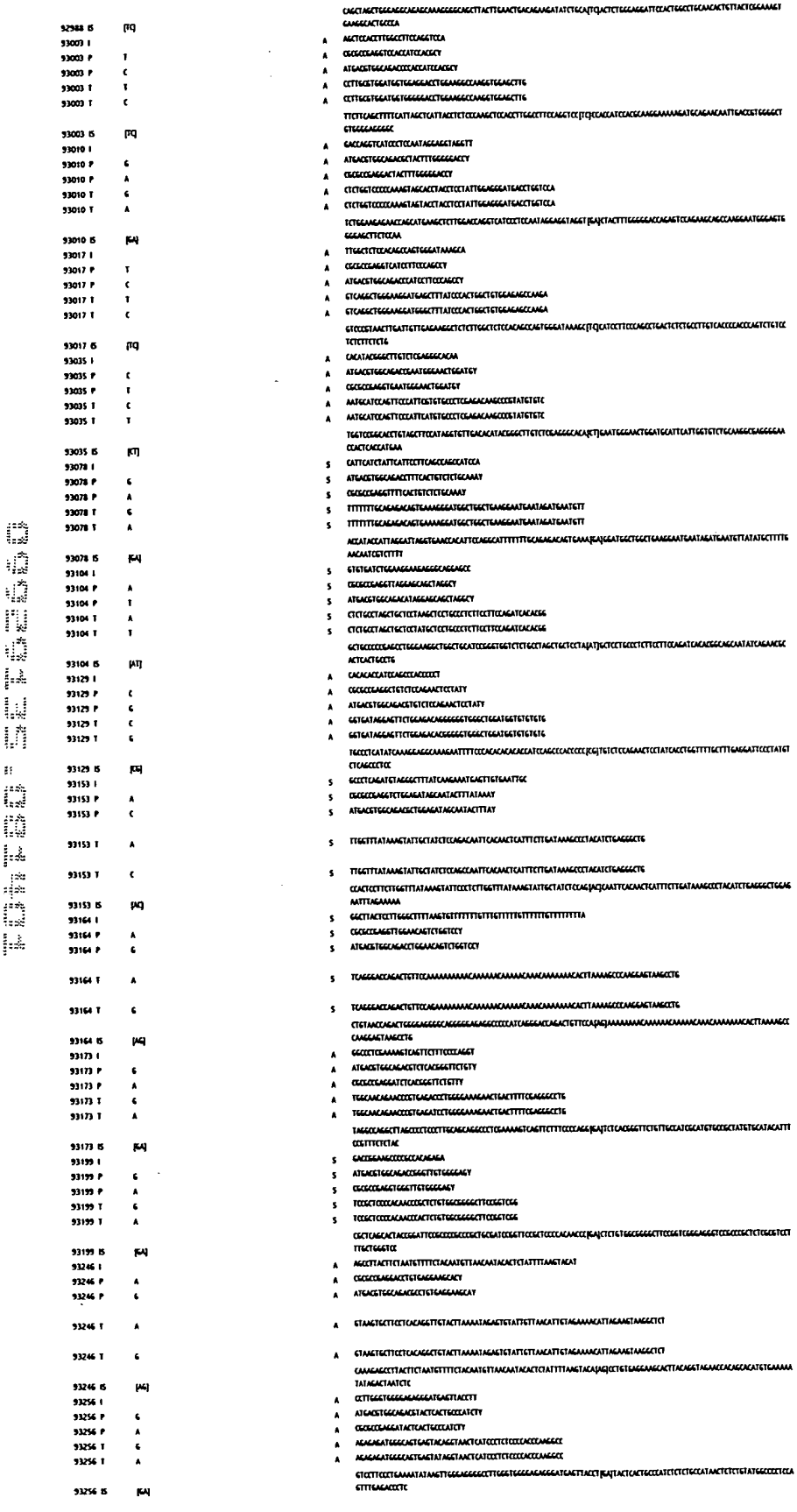
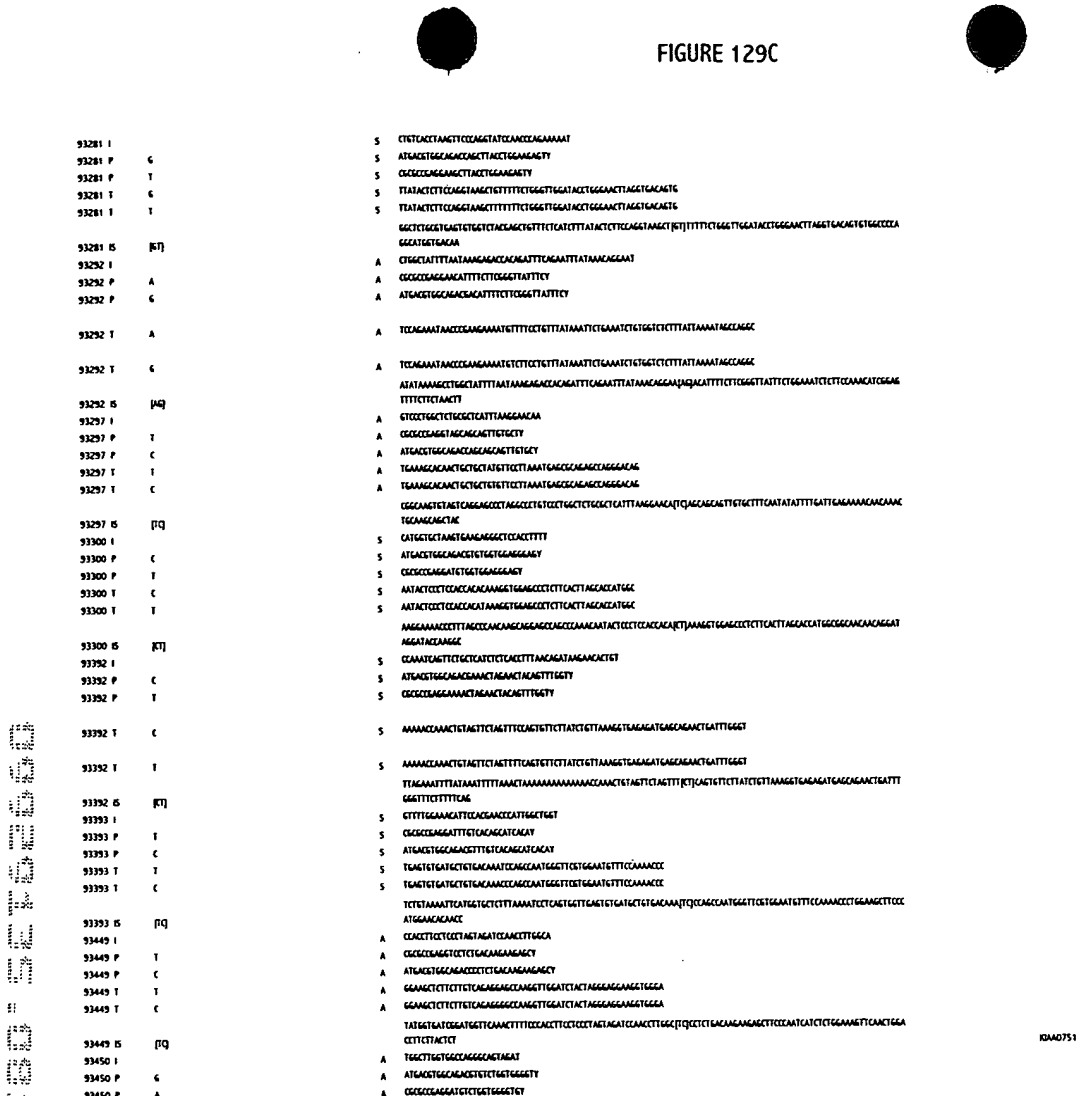
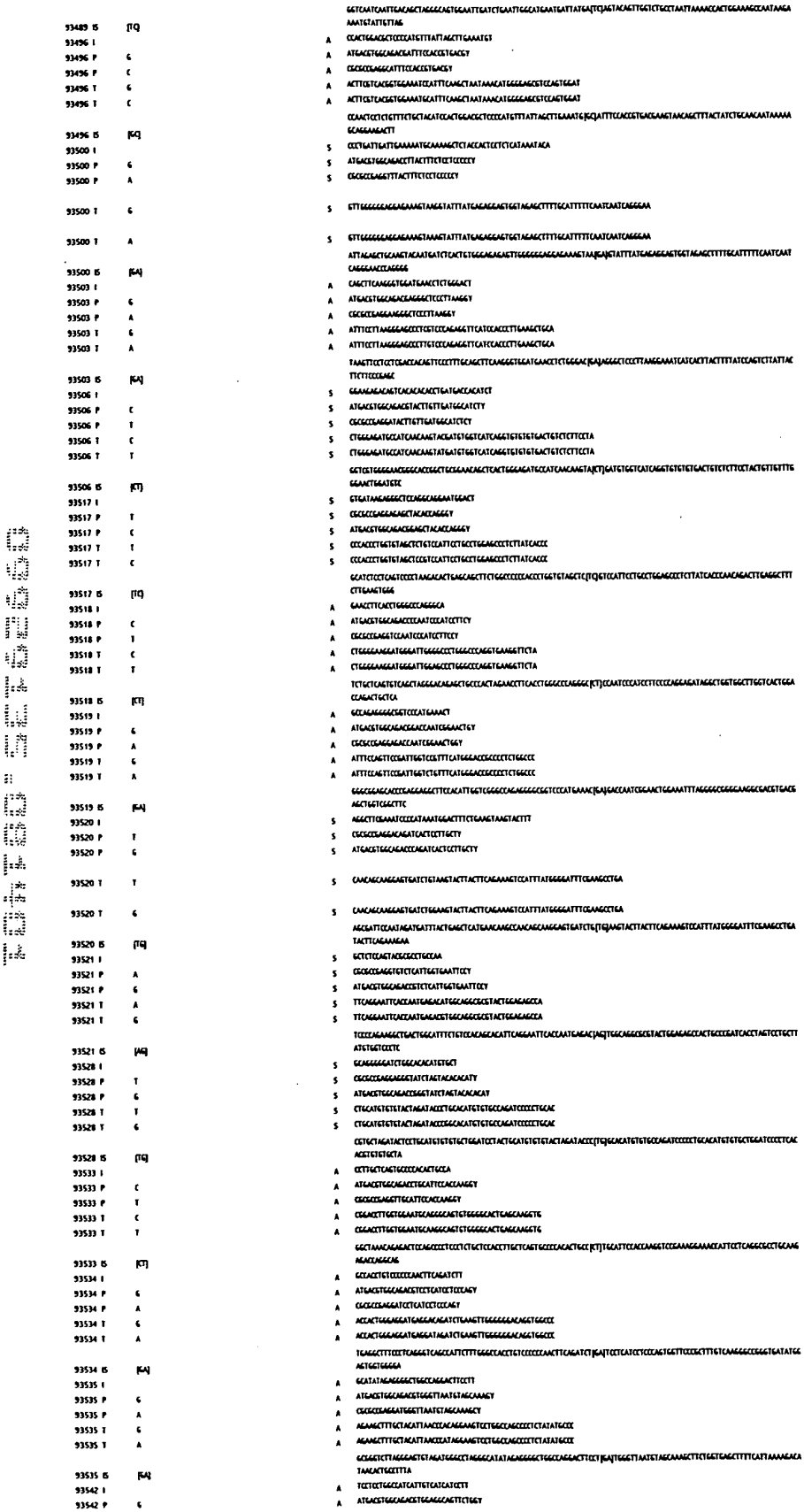


FIGURE 129C





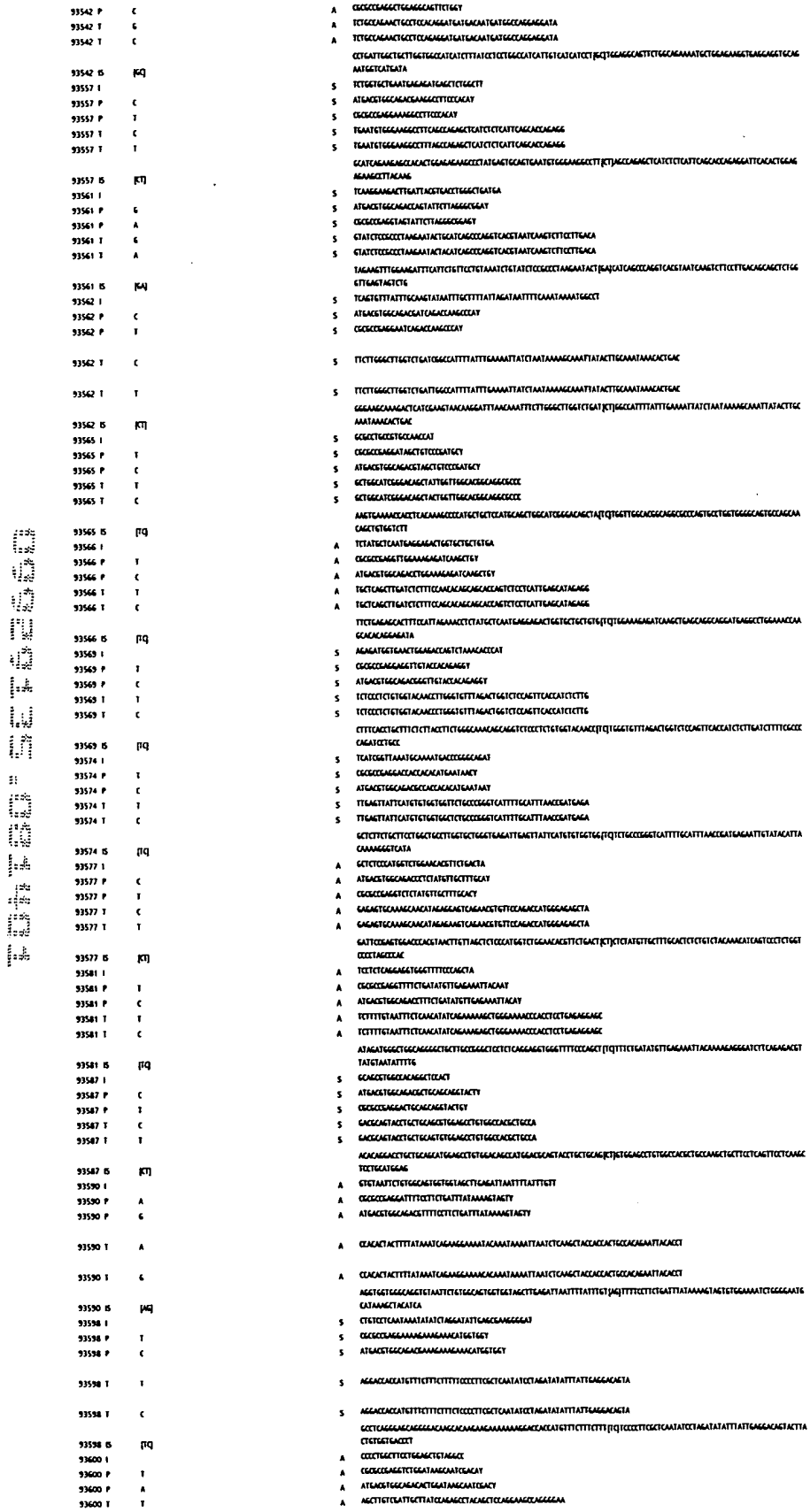
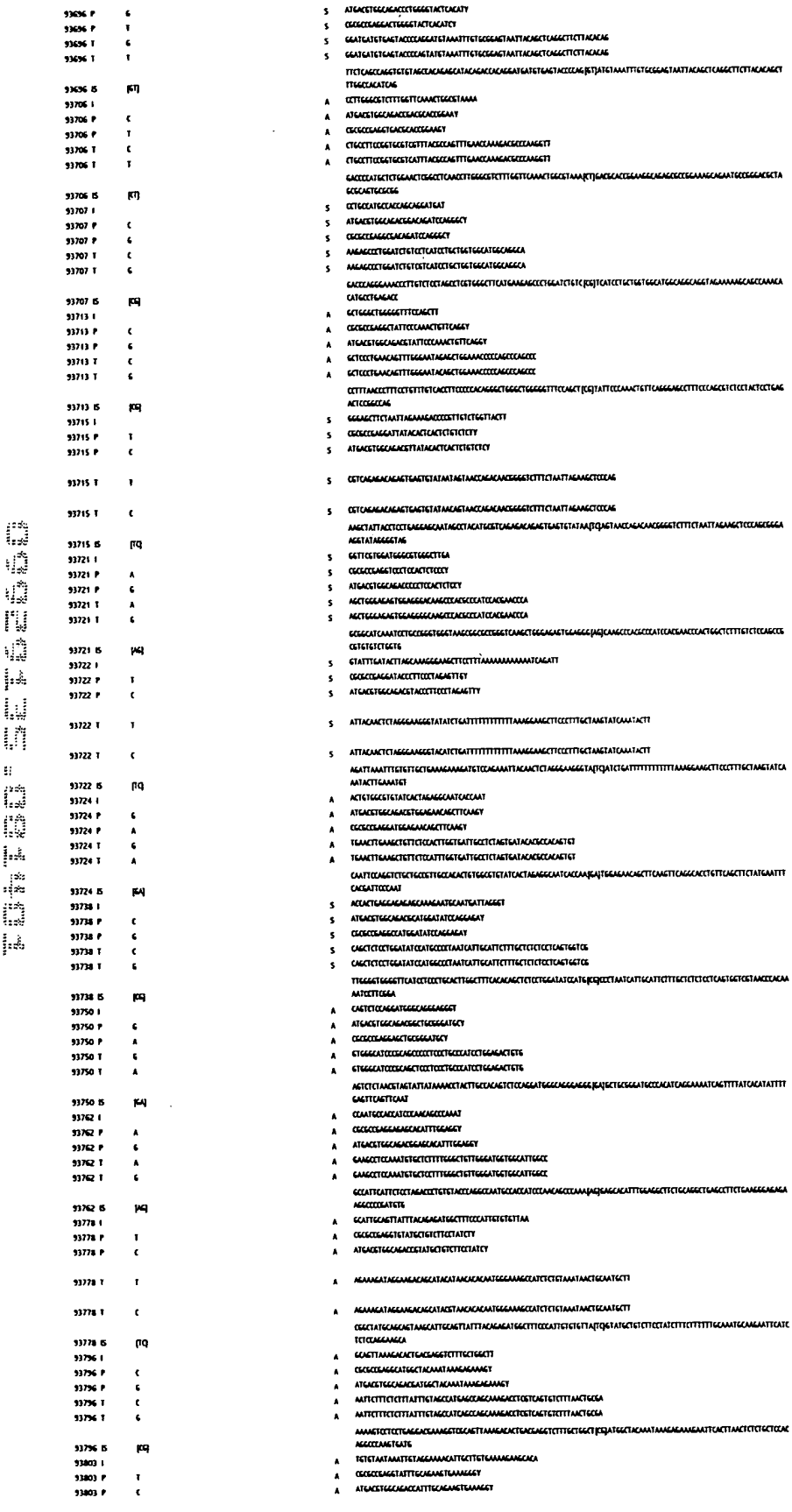
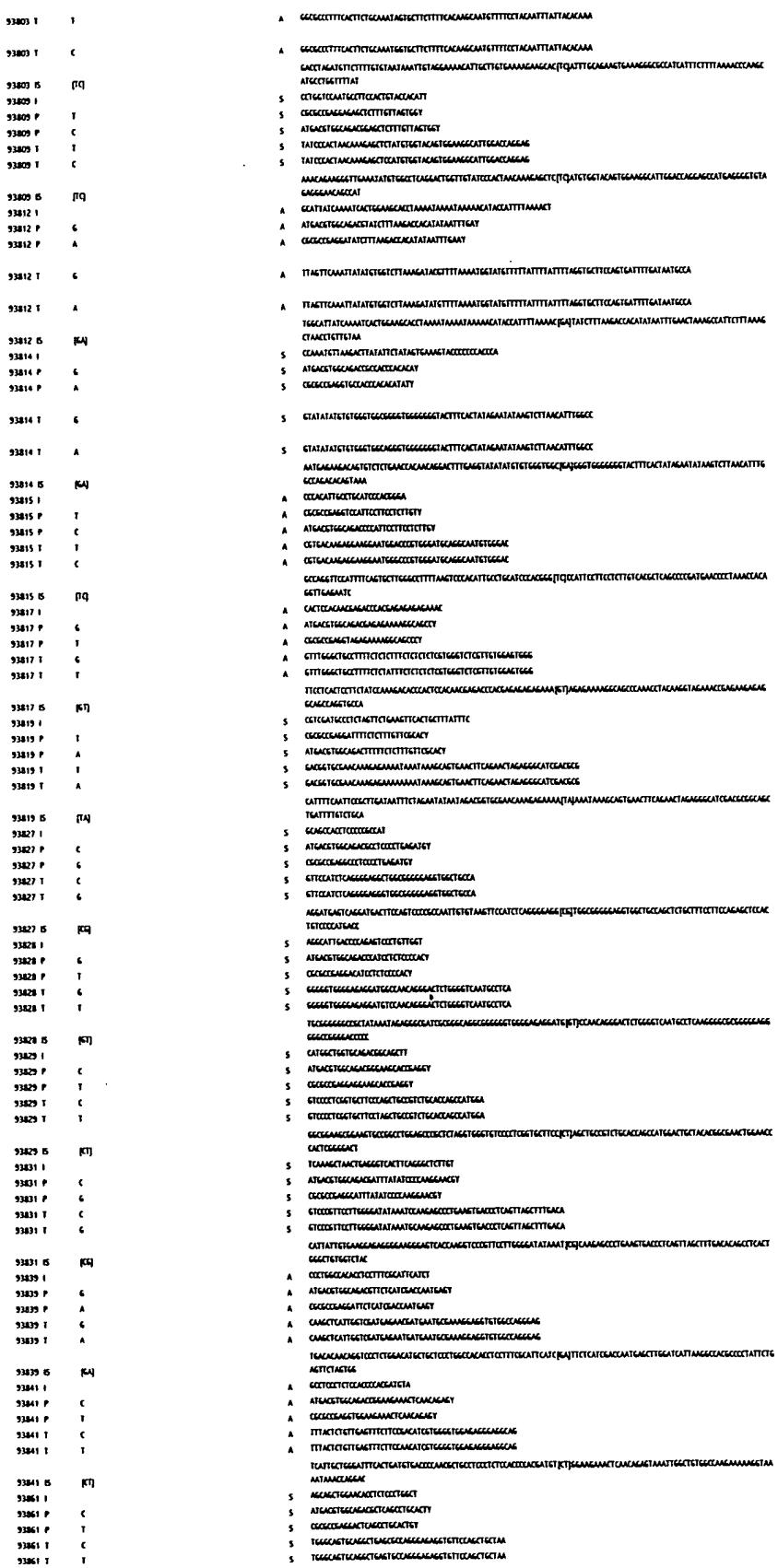


FIGURE 129C

93600 T	A	A	AGCTTGTCGATTGCTTATCCAGTGCCTACAGCTCCAGGAAGCCAGGGGAA	
93600 IS	[TA]		CATCCATCTGCCTCTCATCTTCTACAGACAGGCTTCCCCTGGCTTCCTGGAGCTGTAGGC[TA]CTGGATAAGCAATCGACAAGCTTCCAAGTCAGCTTCCCACACTTTCCCAAGCAGTGGACA	DISC1
93608 I		S	GGCTTTCAGCACAAATAAATCCCGAGACTAAAATTTTGGGGC	
93608 P	A	S	CGCGCCGAGGTCAGGAGGACTGGAATTTY	
93608 P	C	S	ATGACGTGGCAGACGGAGGAGGACTGGAATTTY	
93608 T	A	S	GCAGAAATTCCAGTCCTCCTCACCCCAAAATTTTAGTCTCGGGATTTATTTGTGCTGAAAGCCAG	
93608 T	C	S	GCAGAAATTCCAGTCCTCCTCCCCCCAAAATTTTAGTCTCGGGATTTATTTGTGCTGAAAGCCAG	
93608 IS	[AC]		AATAGTTGGGATTTCTCTTTTGCAGAGGGCAAGAGAAGAGGCAGAAATTCCAGTCCTCCTC[AC]CCCCAAAATTTTAGTCTCGGGATTTATTTGTGCTGAAAGCCAGAGTTATCTACTGCTTGA	
93610 I		S	CAATGAGTGAAAGCAGAACCCTACAGAAGACCAGAAGGT	
93610 P	C	S	ATGACGTGGCAGACGAGGTGGGAGCTCTGY	
93610 P	T	S	CGCGCCGAGGAAGGTGGGAGCTCTGY	
93610 T	C	S	TGCTCAGAGCTCCCACCTCCCTTCTGGTCTTCTGTAGGGTTCTGCTTTCACTCATTGAT	
93610 T	T	S	TGCTCAGAGCTCCCACCTTCCTTCTGGTCTTCTGTAGGGTTCTGCTTTCACTCATTGAT	
93610 IS	[CT]		TATGGGGTAAGTGCTGGGCAGGATGCTCATACCATTAAGGTCTGCTCAGAGCTCCCACCT[CT]CCTTCTGGTCTTCTGTAGGGTTCTGCTTTCACTCATTGATACGTAGCCGCACACAGCACA	
93620 I		A	CCTAGGATTCATCTTTCTTTTCACCGTAGGTGGCCTT	
93620 P	G	A	ATGACGTGGCAGACGACTGGCATTGTATTAGCAY	
93620 P	A	A	CGCGCCGAGGAACTGGCATTGTATTAGCAY	
93620 T	G	A	AGTTTGCTAATACAATGCCAGTCAGGCCACCTACGGTGAAAAGAAAGATGAATCCTAGGGC	
93620 T	A	A	AGTTTGCTAATACAATGCCAGTTAGGCCACCTACGGTGAAAAGAAAGATGAATCCTAGGGC	
93620 IS	[GA]		ATGATCTGCTGCAGTGCTCTGAGCCCTAGGATTCATCTTTCTTTTCACCGTAGGTGGCCT[GA]ACTGGCATTGTATTAGCAAACTCATCACTAGACATCGTACTACACGACACGTACTACGTT	
93625 I		S	CAGCGGGGCTGGGCTGGCT	
93625 P	G	S	CGCGCCGAGGCAGGGCAGAAGGTCAY	
93625 P	C	S	ATGACGTGGCAGACGAGGGCAGAAGGTCAY	
93625 T	G	S	ATGCTGACCTTCTGCCCTGGCCAGCCCAGCCCCGCTGCA	
93625 T	C	S	ATGCTGACCTTCTGCCCTCGCCAGCCCAGCCCCGCTGCA	
93625 IS	[GC]		GCAGCAACCCAATGACACCCGGATGCCTGTGTGAGAATGAGCATGCTGACCTTCTGCCCT[GC]GCCAGCCCAGCCCCGCTGCACCTCACTCAGGAGCCAGCAGAGCTCATGTCCTGTGCACAG	
93628 I		A	ACCTCGGTTACAGCTTGGATGGATGCACCT	
93628 P	G	A	ATGACGTGGCAGACGTGTTTCAGAAGGAGTTCCY	
93628 P	A	A	CGCGCCGAGGATGTTTCAGAAGGAGTTCCY	
93628 T	G	A	TAATGGAACTCCTTCTGAAACACGGTGCATCCATCCAAGCTGTAACCGAGGTGA	
93628 T	A	A	TAATGGAACTCCTTCTGAAACATGGTGCATCCATCCAAGCTGTAACCGAGGTGA	
93628 IS	[GA]		CTCAGGACTCCCAGAAATCTTAACTCTTCTCACCTCGGTTACAGCTTGGATGGATGCACC[GA]TGTTTCAGAAGGAGTTCCATTACTTTAATTCGATTCTTCTTGCAGGCAATATGAAGAGGG	
93632 I		A	ACCAGAACAATAGATAGTAAAGACTTAATAAGCATCCATTAACTGCTGATATATAAATACT	
93632 P	G	A	ATGACGTGGCAGACGAGCCTAGTTCTGCGGY	
93632 P	A	A	CGCGCCGAGGAAGCCTAGTTCTGCGGY	
93632 T	G	A	CAGGCCGCAGAACTAGGCTCGTATTTATATATCAGCAGTTAATGGATGCTTATTAAGTCTTTACTATCTATTGTTCTGGT	
93632 T	A	A	CAGGCCGCAGAACTAGGCTTGTATTTATATATCAGCAGTTAATGGATGCTTATTAAGTCTTTACTATCTATTGTTCTGGT	
93632 IS	[GA]		ACCAGAACAATAGATAGTAAAGACTTAATAAGCATCCATTAACTGCTGATATATAAATAC[GA]AGCCTAGTTCTGCGGCCTGAACCTGAGGTACTAGGGGTGTCTGACCTGTACTTTTAGAAC	
93633 I		A	GTTTAGCCAAGGTCTCATAAGATCTCGGTTCTAAAATCTT	
93633 P	G	A	ATGACGTGGCAGACGAGTTTATTGAAAGGAAAAAGAGGY	
93633 P	A	A	CGCGCCGAGGAAGTTTATTGAAAGGAAAAAGAGGY	
93633 T	G	A	ATATCCTCTTTTTCCTTTCAATAAACTCAGATTTTAGAACCGAGATCTTATGAGACCTTGGCTAAACAG	
93633 T	A	A	ATATCCTCTTTTTCCTTTCAATAAACTTAGATTTTAGAACCGAGATCTTATGAGACCTTGGCTAAACAG	
93633 IS	[GA]		AGAAGGCCTTCCTGTAAAACTGTTTAGCCAAGGTCTCATAAGATCTCGGTTCTAAAATCT[GA]AGTTTATTGAAAGGAAAAAGAGGATATGATGAACACCACTGGCCATGGGAAGGAGCCTGA	
93638 I		S	CCTGCAGGGCTCAGCCTAATTGTTTGAGCATCT	
93638 P	T	S	CGCGCCGAGGAGGTAATCTTTTGTAGACACATY	
93638 P	C	S	ATGACGTGGCAGACGGGTAATCTTTTGTAGACACAY	
93638 T	T	S	TAGCATGTGTCTACAAAAGATTACCTGATGCTCAAACAATTAGGCTGAGCCCTGCAGGTC	
93638 T	C	S	TAGCATGTGTCTACAAAAGATTACCCGATGCTCAAACAATTAGGCTGAGCCCTGCAGGTC	
93638 IS	[TC]		GAACAGACTATTCTCTGATATTCTGTTAATCGTATTAGCATGTGTCTACAAAAGATTACC[TC]GATGCTCAAACAATTAGGCTGAGCCCTGCAGGTCTCTGAGGTGCCCTTCTGAATCAAAGAA	
93660 I		A	CCACGTTTTCCAGTATACCCTCCCTTCTCCCCT	
93660 P	G	A	ATGACGTGGCAGACGTCAAGGGCAGAAACAGY	
93660 P	A	A	CGCGCCGAGGATCAAGGGCAGAAACAGY	
93660 T	G	A	ACGTCTGTTTCTGCCCTTGACGGGGAGAAGGGAGGGTATACTGGAAAACGTGGCC	
93660 T	A	A	ACGTCTGTTTCTGCCCTTGATGGGGAGAAGGGAGGGTATACTGGAAAACGTGGCC	
93660 IS	[GA]		GATAACTGAATATCCGGGGTTCTGGGGGCCACGTTTTCCAGTATACCCTCCCTTCTCCCC[GA]TCAAGGGCAGAAACAGACGTACCTTCCAGAAAAGTAATCTCCCCTGCGCTACCGCCGCTC	
93667 I		S	CTCTGAGAAAAGCACAGCAGGAGAAGCAAGGGC	
93667 P	C	S	ATGACGTGGCAGACGGTACTCACCGGGGY	
93667 P	A	S	CGCGCCGAGGTGTACTCACCGGGGTY	
93667 T	C	S	TGGGACCCCGGTGAGTACCCCCTTGCTTCTCCTGCTGTGCTTTTCTCAGAGAC	
93667 T	A	S	TGGGACCCCGGTGAGTACACCCTTGCTTCTCCTGCTGTGCTTTTCTCAGAGAC	
93667 IS	[CA]		TGGGCCCCCCGGCCTCCCTGGACCCCCTGGGATAGGACTGCCTGGGACCCCGGTGAGTAC[CA]CCCTTGCTTCTCCTGCTGTGCTTTTCTCAGAGACCGCTCTCCCACCCTGGCCAGGGAATG	
93668 I		A	CCTGGCCAGGGAATGAACGGGGGC	
93668 P	G	A	ATGACGTGGCAGACGAAGATAAGGCTCTGTCCY	
93668 P	T	A	CGCGCCGAGGTAAGATAAGGCTCTGTCCCY	
93668 T	G	A	CCCTGGGACAGAGCCTTATCTTCCCCCCGTTCATTCCCTGGCCAGGGT	
93668 T	T	A	CCCTGGGACAGAGCCTTATCTTACCCCCGTTCATTCCCTGGCCAGGGT	
93668 IS	[GT]		TCTCCTGCTGTGCTTTTCTCAGAGACCGCTCTCCCACCCTGGCCAGGGAATGAACGGGGG[GT]AAGATAAGGCTCTGTCCCAGGGATCCTGGCTGCAGGAGAGGGTGAGGGTAGAAGATCTCG	
93669 I		A	GCTGCCCAGATCGGGGTGGGAAT	
93669 P	C	A	ATGACGTGGCAGACCGGGACCCCCTTTCY	
93669 P	A	A	CGCGCCGAGGAGGGACCCCCTTTCTY	
93669 T	C	A	GTGCAGAAAGGGGGTCCCGTTCCCACCCCGATCTGGGCAGCCA	
93669 T	A	A	GTGCAGAAAGGGGGTCCCTTTCCCACCCCGATCTGGGCAGCCA	
93669 IS	[CA]		GCCAGGTGTGAAGGGAGAGAAGGTGAGTCCTAGGCCTGGCTGCCCAGATCGGGGTGGGAA[CA]GGGACCCCCTTTCTGCACATGACAGTGAGCATCAAGGGCCCTAGGCCTAGGGGTGCTGGA	
93688 I		S	CTGCCCTTTCCTGGCCCCTACTGGC	
93688 P	A	S	CGCGCCGAGGTGTCACAGCCAACTGTY	
93688 P	C	S	ATGACGTGGCAGACGGTCACAGCCAACTGY	
93688 T	A	S	GTTAACAGTTGGCTGTGACACCAGTAGGGGCCAGGAAAGGGCAGCC	
93688 T	C	S	GTTAACAGTTGGCTGTGACCCCAGTAGGGGCCAGGAAAGGGCAGCC	
93688 IS	[AC]		CTCCATCCCTTCATCACTAAATCTGAGGAACAGACACAGGTGTTAACAGTTGGCTGTGAC[AC]CCAGTAGGGGCCAGGAAAGGGCAGCCAGAGAGCTCCTACAGCTCCTTAAACAGGCTGAGC	
93696 I		S	GTGTAAGAAGCCTGAGCTGTAATTACTCCGCACAAATTTACATT	

FIGURE 129C







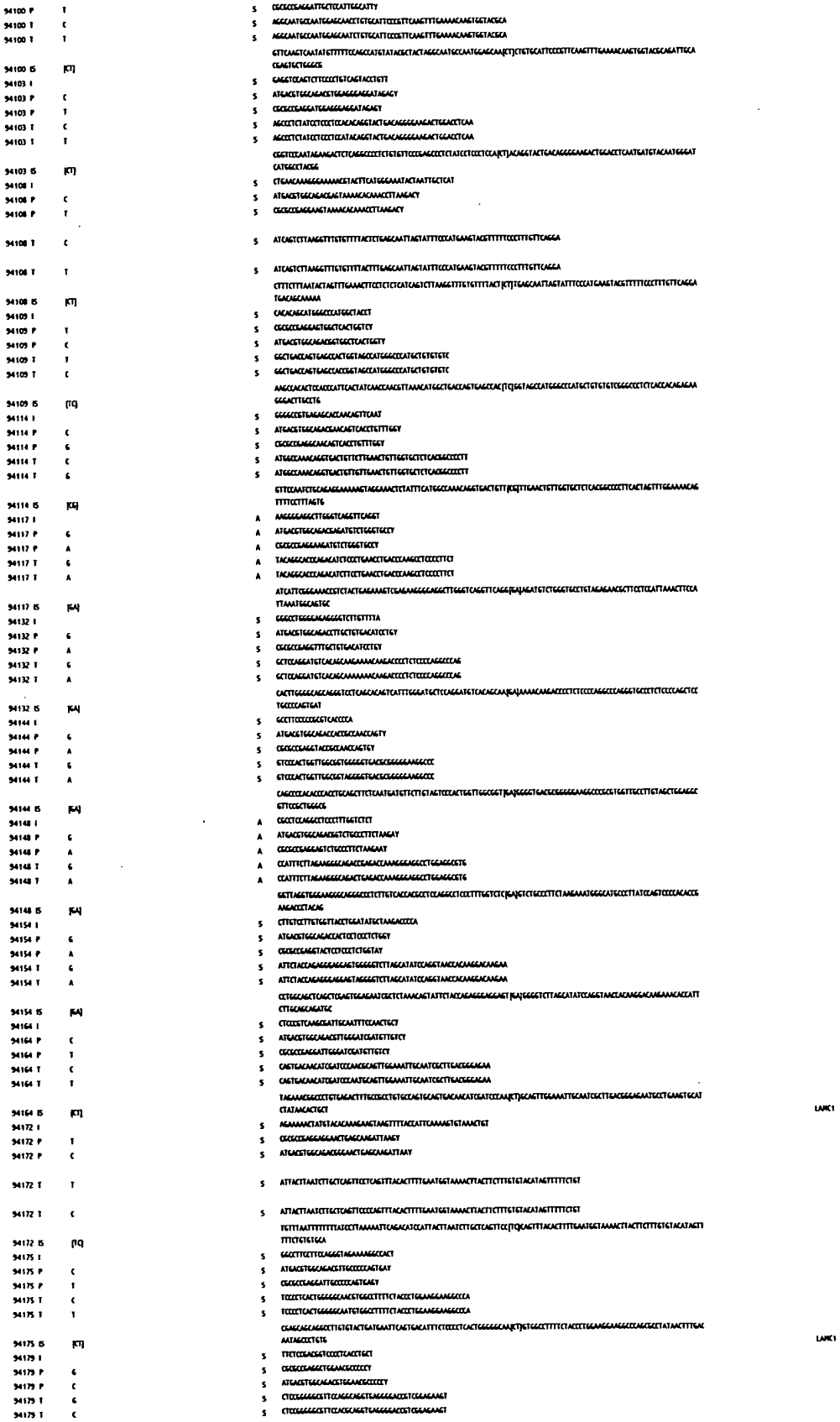
Docket No. 10020-2

			CACAGCAGAAATCAAGGGGGGCATCAATGCAAACCCCTTGATGGGCAGTGCAGGCTGAG[CT]GCCAGGCAGAGGTGTTCCAGCTGCTAAGATGGCCCTAGTTCAACCC
93861 IS	[CT]		AAACTTTAGCTGAG
93871 I		A	CCTTTCCTTCCTGACCCAGGGCCCCA
93871 P	T	A	CGCGCCGAGGTGCACCATGGGCAY
93871 P	C	A	ATGACGTGGCAGACCGCACCATGGGCAY
93871 T	T	A	AAAATGCCCATGGTGCAGGGGCCCTGGGTCAGGAAGCAAAGGAT
93871 T	C	A	AAAATGCCCATGGTGCGGGGGCCCTGGGTCAGGAAGCAAAGGAT
93871 IS	[TC]		CACAGCAGCTCATCAAGAAGCTGCAGTACAGATATCCTTTGCTTCCTCACCCAGGGCCCC[TC]GCACCATGGGCATTTTGGAGAGAAGGCACCCTCTTGCCCTTCAGTCC TCGTGGGGCAAG
93875 I		A	TCACACTTCAACTCCTGCCTACTCCCCTCCT
93875 P	G	A	ATGACGTGGCAGACGCCAAAATAAAACCTGTAAATACY
93875 P	A	A	CGCGCCGAGGACCAAAATAAAACCTGTAAATACCY
93875 T	G	A	ATTTGGTATTTACAGGTTTTATTTTGGCGGAGGGGACTAGGCAGGAGTTGAAGTGTGAAC
93875 T	A	A	ATTTGGTATTTACAGGTTTTATTTTGGTGGAGGGGAGTAGGCAGGAGTTGAAGTGTGAAC
93875 IS	[GA]		TTTCATTACTAGACTCTCCACACCCAATGTTCACACTTCAACTCCTGCCTACTCCCCTCC[GA]CCAAAATAAAACCTGTAAATACCAAATGAACAAAAAGAACAACCCTT TCTTTTCTTTC
93878 I		S	CGATGGGTGGCCCGTAATCCAATTAGTTCTACAAAATGAGT
93878 P	T	S	CGCGCCGAGGAGTAATAAAGGCATTCCAGTCY
93878 P	C	S	ATGACGTGGCAGACGGTAATAAGGCATTCCAGTY
93878 T	T	S	GTCAGACTGGAATGCCTTTATTACTCTCATTTTGTAGAACTAATTGGATTACGGGCCACCCATCGAT
93878 T	C	S	GTCAGACTGGAATGCCTTTATTACCCTCATTTTGTAGAACTAATTGGATTACGGGCCACCCATCGAT
93878 IS	[TC]		TCCCCTAGCTTCTCTCTGACTTGTTTTATTACTTCGGTGAGACTGGAATGCCTTTATTACT[TC]CTCATTTTGTAGAACTAATTGGATTACGGGCCACCCATCGATTTTGGT GGCAGGTCTATG
93881 I		S	CCTACAGCTTAGGGTTAGTTAAAAAATATGTAAAAAAAGACTGAGTAAACTAAC
93881 P	T	S	CGCGCCGAGGAGAGAGAAAGGAATCCAAAGY
93881 P	A	S	ATGACGTGGCAGACTGAGAGAAAAGGAATCCAAAGY
93881 T	T	S	TATGCTTTGGATTCCTTTCTCTCTTTAGTTTACTCAGTCTTTTTTTACATATTTTTTAACTAACCCTAAGCTGTAGGCC
93881 T	A	S	TATGCTTTGGATTCCTTTCTCTCATTAGTTTACTCAGTCTTTTTTTACATATTTTTTAACTAACCCTAAGCTGTAGGCC
93881 IS	[TA]		ATTTGTGTAATAACTGTAAATAATAGGCTTTAATTTTATGCTTTGGATTGCTTTTCTCTCT[TA]TTAGTTTACTCAGTCTTTTTTTACATATTTTTTAACTAACCCTAAGC TGTAGGCCAGTGT
93887 I		S	CGCTGGGCAGGAGCGCCACA
93887 P	A	S	CGCGCCGAGGTTCTAATCTCTCCCGAGACY
93887 P	G	S	ATGACGTGGCAGACCTCTAATCTCTCCCGAGACY
93887 T	A	S	TCCAGTCTCGGGAGAGATTAGAAGTGGCGCTCCTGCCCAGCGCC
93887 T	G	S	TCCAGTCTCGGGAGAGATTAGAAGTGGCGCTCTGCCCAGCGCC
93887 IS	[AG]		GCCTCGAAAGAACACAACGCGCGTGGAAGGCGCTGGGGCGTCCAGTCTCGGGAGAGATTAGAAGTGGCGCTCCTGCCCAGCGCCGCAATCCAGGGGAATCCGCGCCAT CGCGAATCCACCA
93893 I		A	CGGTGCCTCCTGCACAGCCCACT
93893 P	G	A	ATGACGTGGCAGACGACTCTCGGGTCTGGGY
93893 P	A	A	CGCGCCGAGGAACTCTCGGGTCTGGGY
93893 T	G	A	GTCACCCAGACCCACAGTCGTGGGCTGTGCAGGAGGCACCGCT
93893 T	A	A	GTCACCCAGACCCAAACTTGTGGGCTGTGCAGGAGGCACCGCT
93893 IS	[GA]		GCCTTAGAAGTCGCCCTGAGACAGGCTGCCCTGCTCAGCGGTGCCTCCTGCACAGCCCAC[GA]ACTCTGGGTCTGGGTGACCACGTGTTTACGTGACCTTACCTGGTAAG CCTGAAGCTCCC
93899 I		A	CTAGCTACCTTGGAATCATTTCTTTTAATACAAACCCCTCTT
93899 P	A	A	CGCGCCCAAGAATCCTTTTTGTCTTTTGACAAGY
93899 P	C	A	ATGACGTGGCAGACCTCCTTTTTGTCTTTTGACAAY
93899 T	A	A	TGAACTTGTCAAAAGACAAAAAGGATAGAGGGGTTTGTATTAAAAGAAATGATTCCAAGGTACCTAGAA
93899 T	C	A	TGAACTTGTCAAAAGACAAAAAGGAGAGAGGGGTTTGTATTAAAAGAAATGATTCCAAGGTACCTAGAA
93899 IS	[AC]		AGCAAGATTACTTTTATTTCTAGGTACCTTGGAATCATTTCTTTTAATACAAACCCCTCT[AC]TCCTTTTTGTCTTTTGACAAGTTCATGCAATGTTACCTTGAAAAAGA TACATTTACTGCC
93918 I		A	CCCACCCAGAGCCAGGAAGCTGCTA
93918 P	C	A	ATGACGTGGCAGACCTGCTCTGCGCCY
93918 P	T	A	CGCGCCGAGGTCTGCTCTGCGCCY
93918 T	C	A	AGGGGGCGCAGAGCAGCAGCAGCTCCTGCCTCTGGGTGGGGA
93918 T	T	A	AGGGGGCGCAGAGCAGAAGCAGCTTCCTGCCTCTGGGTGGGGA
93918 IS	[CT]		ATGGGGCTTTGCCAGTCCCCAGTGGGGATCACTGTCCCCACCCAGAGGCAGGAAGCTGCT[CT]CTGCTCTGCGCCCCCTGCCCTTCTCCACTCCCTGCCATGCCCAGCAAGC TGCTCTGCCCT
93929 I		A	GCAAGCACCCTCTGGCTGGCGTT
93929 P	G	A	ATGACGTGGCAGACGGGCAACCCTTTATTCAY
93929 P	C	A	CGCGCCGAGGCGGCAACCCTTTATTCAY
93929 T	G	A	CTGCTGAATAAAGGTTGCCCACGCCAGCCAGAGGGTCCTTGCCC
93929 T	C	A	CTGCTGAATAAAGGTTGCCGACGCCAGCCAGAGGTCCTTGCCC
93929 IS	[GC]		CCTGCACCACGTCTGCAGCAGACAGCACACATCATTTAGGGCAAGCACCCCTCTGGCTGGCGT[GC]GGCAACCCTTTATTCACCAGGGGGCCACGCACCTATAATCTCCTTCAC CATCTCATACAT
93940 I		A	GCTTACAGTTTGGACTTTATTCCATTGCCCTTCTTTA
93940 P	T	A	CGCGCCGAGGTCTTTCTGTCATCTAACTGTGY
93940 P	C	A	ATGACGTGGCAGACCTTTTCTGTCATCTAACTGTY
93940 T	T	A	ACAACAGTTAGATGACAGAAAGAAAAGAAAGGGCAATGGAATAAAGTCCAAACTGTAAGCAC
93940 T	C	A	ACAACAGTTAGATGACAGAAAGAAAAGAAAGGGCAATGGAATAAAGTCCAAACTGTAAGCAC
93940 IS	[TC]		GTTTTTTAGTGAGTTTTGTAAAGTGCTTACAGTTTGGACTTTATTCCATTGCCCTTCTTT[TC]CTTCTCTGTCATCTAACTGTGTTGTGATTTAATTTTAATTTCTACATTC ATTCCATTTATG
93943 I		S	GCCCTCTGGCTGAGGACATGCAGCT
93943 P	C	S	ATGACGTGGCAGACGGCTCCTAAATGTAGAGATGY
93943 P	T	S	CGCGCCGAGGAGCTCCTAAATGTAGAGATGY
93943 T	C	S	CAGGCATCTCTACATTTAGGAGCCGCTGCATGTCCTCAGCCAGAGGGCTG
93943 T	T	S	CAGGCATCTCTACATTTAGGAGCTGCTGCATGTCCTCAGCCAGAGGGCTG
93943 IS	[CT]		GTGAGTGGGGACACAGCTAGAGAGGCCCCCTCAGCCACAGGCATCTCTACATTTAGGAGC[CT]GCTGCATGTCCTCAGCCAGAGGGCTGGGTCAGTCTCCAGCAGCGCCG GTCCTTGCCAGCT
93949 I		S	GGACCACAATTAGCAACCAGTTTCAGACATTTTTTGCCAT
93949 P	T	S	CGCGCCGAGGAGCTGCCTTGTGTTTTACY
93949 P	C	S	ATGACGTGGCAGACGGCTGCCTTGTGTTTTY
93949 T	T	S	ACAGGTAAAACACAAGGCAGCTTGGCAAAAAATGTCTCAAACTGGTTGCTAATTGTGCTCCAG
93949 T	C	S	ACAGGTAAAACACAAGGCAGCCTGGCAAAAAATGTCTCAAACTGGTTGCTAATTGTGCTCCAG
93949 IS	[TC]		AATTAATTGAAAATGAAACCTTCGGACTCAGCTTACCTTCAGAGGTAAAACACAAGGCAGC[TC]TGGCAAAAAATGTCTCAAACTGGTTGCTAATTGTGGTCCAGAGGCT ACTAGGAGAATCCA
93956 I		A	CAAATGTACTCTCCTACCTTTATTAGCACTTCAAGTAAGGCT
93956 P	A	A	CGCGCCGAGGATAATCACTATTCAAAATTTGGGGY
93956 P	G	A	ATGACGTGGCAGACGTAATCACTATTCAAAATTTGGGGY
93956 T	A	A	TGAGCCCCAAATTTTGAATAGTGATTATGCCTTACTTGAAGTGCTAATAAAGGTAGGAGAGTACATTTGTT
93956 T	G	A	TGAGCCCCAAATTTTGAATAGTGATTACGCCTTACTTGAAGTGCTAATAAAGGTAGGAGAGTACATTTGTT



			ACCATTTCTGTATTCCAACAAATGTACTCTCCTACCTTTATTAGCACTTCAAGTAAGGC[AG]TAATCACTATTCAAAATTTGGGGCTCAGTCTTTTCCATTAAATTTTTa
93956 IS	[AG]		AGCATGAGTTTT
93958 I		S	CCCGTGCTCACCGTGCCCCTCT
93958 P	C	S	ATGACGTGGCAGACGCTCCTAATCCCACCCY
93958 P	T	S	CGCGCCGAGGACTCCTAATCCCACCCY
93958 T	C	S	CTGAGGGTGGGATTAGGAGCGAGGGCCACGGTGAGCACGGGCG
93958 T	T	S	CTGAGGGTGGGATTAGGAGTGAGGGCCACGGTGAGCACGGGCG
			TCCCAGTAGCCAAGTGTGGGGAACTGCTTCCTGCCTCAGAACCTGAGGGTGGGATTAGGAG[CT]GAGGGCCACGGTGAGCACGGGCGTCAGCAGGTCCCCTGTGAGAGC
93958 IS	[CT]		ACCTGGGCCAGCCC
93959 I		A	CAGGGCCTTGGCCTTGACCCCAT
93959 P	A	A	CGCGCCGAGGAAGAACCTCGTTGTCCAY
93959 P	G	A	ATGACGTGGCAGACGAGAACCTCGTTGTCCAY
93959 T	A	A	GATCTGGACAACGAGGTCTTTGGGGTCAAGGCCAAGGCCCTGAC
93959 T	G	A	GATCTGGACAACGAGGTCTCTGGGGTCAAGGCCAAGGCCTGAC
			ACAGGCCCCTGCTTGGTGGGCACAGGACTCCTGTCAGTCAGGGCCTTGGCCTTGACCCCA[AG]AGACCTCGTTGTCCAGATCCCTGACTGACAGTGGCTGCCCCCCTGTCT
93959 IS	[AG]		TCCAGGTCCCCA
93962 I		A	CGTCAAGGCGGCCTTGGCAGATGAA
93962 P	T	A	CGCGCCGAGGTTTTGACACACCCAGGY
93962 P	C	A	ATGACGTGGCAGACCTTTGACACACCCAGGY
93962 T	T	A	CCACCCTGGGTGTGTCAAAATCATCTGCCAAGGCCGCCTTCACGGC
93962 T	C	A	CCACCCTGGGTGTGTCAAAGTCATCTGCCAAGGCCGCCTTCACGGC
			CTCCTCTTCCCTCAGGCTCTCCAGCACCAAGAGGGCCGTGAAGGCGGCCTTGGCAGATGA[TC]TTTGACACACCCAGGGTGGTTGATGCCATCCTGGGCCTTGCACACCAC
93962 IS	[TC]		GGGAATGGACAG
93964 I		S	GCCTGGGGTTGTCTGCTGGGTGTA
93964 P	G	S	ATGACGTGGCAGACCCTGGGATGGTTCAATTCY
93964 P	A	S	CGCGCCGAGGTCTGGGATGGTTCAATTCY
93964 T	G	S	TGGTGAATTGAACCATCCCAGAACACGCAGCAGACAACCCCAGGCAG
93964 T	A	S	TGGTGAATTGAACCATCCCAGAACACGCAGCAGACAACCCCAGGCAG
			CATGCAAGGAAGCTGAAGATTTATACACAGAGGAAGTCCTTGGTGAATTGAACCATCCCAG[GA]ACACGCAGCAGACAACCCCAGGCAGGTGCCCGGGCAGGGTATGCGG
93964 IS	[GA]		GTTTCTCAGGGCTC
93981 I		A	GACCGCTATACACAAGGTCAGCAGTTGTTTAGGTACAAATTTT
93981 P	G	A	ATGACGTGGCAGACGTTCATAGAAGCCTTAAGAGTTY
93981 P	A	A	CGCGCCGAGGATTCATAGAAGCCTTAAGAGTTTY
93981 T	G	A	AACCAAACTCTTAAGGCTTCTATGAACAAATTGTACGTAAACAACTGCTGACCTTGTGTATAGCGGTCTT
93981 T	A	A	AACCAAACTCTTAAGGCTTCTATGAATAAATTGTACGTAAACAACTGCTGACCTTGTGTATAGCGGTCTT
			CAGACTCCTGGGCTGTCAAGACCGCTATACACAAGGTCAGCAGTTGTTTACGTACAAATTT[GA]TTCATAGAAGCCTTAAGAGTTTGGTTATAAGAGCTGACTTGGGACT
93981 IS	[GA]		AAAAAGTAAATATT
93983 I		S	GCTTCTCTTCTCCACTGCTCACCTGTGCAA
93983 P	A	S	CGCGCCGAGGTTTGGTGGCAAAAACACTY
93983 P	G	S	ATGACGTGGCAGACCTTGGTGGCAAAAACACY
93983 T	A	S	GCGAAGTGTTTTTGCCACCAAATGCACAGGTGAGCAGTGGAGAAGAGAAGCTG
93983 T	G	S	GCGAAGTGTTTTTGCCACCAAGTGCACAGGTGAGCAGTGGAGAAGAGAAGCTG
			TCTTGCCTCACAGTGTGGATTTAGGTGATCCACTGAAAGCGAAGTGTTTTTGCCACCAA[AG]TGCACAGGTGAGCAGTGGAGAAGAGAAGCTGGTCCAGGTCTGGGTG
93983 IS	[AG]		CAATTATCTGAAGG
93995 I		A	AGGCTCTCTGCAGATCCAAGCAAGACAGTCAGT
93995 P	G	A	ATGACGTGGCAGACGCTGGCAGGAAATCTGY
93995 P	A	A	CGCGCCGAGGACTGGCAGGAAATCTGGY
93995 T	G	A	TGCACCAGATTTCCTGCCAGCCTGACTGTCTTGCTTGGATCTGCAGCAGACCTGT
93995 T	A	A	TGCACCAGATTTCCTGCCAGTCTGACTGTCTTGCTTGGATCTGCAGCAGACCTGT
			TCCTTTTGGGGGTTTATGGATAGGTAACAGGCTCTCTGCAGATCCAAGCAAGACAGTCAG[GA]CTGGCAGGAAATCTGGTGCAGATCCAGTCAAAGCCCAGGGGAGGA
93995 IS	[GA]		ATGTGCTGCTGCAC
93996 I		S	CAGTGCTGAGTGACGGTTTGCCCCTTTGT
93996 P	G	S	ATGACGTGGCAGACCTTCAGTTACGCTACAGGY
93996 P	T	S	CGCGCCGAGGATTCAGTTACGCTACAGGY
93996 T	G	S	CCTGCCTGTAGCGTAACTGAAGCAAAGGGGCAAACCGTCACTCAGCACTGCC
93996 T	T	S	CCTGCCTGTAGCGTAACTGAATCAAAGGGGCAAACCGTCACTCAGCACTGCC
			GGTGACTCCATCCCCAGAATCCAGCACACCACCCTGTGGTCCTGCCTGTAGCGTAACTGAA[GT]CAAAGGGGCAAACCGTCACTCAGCACTGCCTCCTCACGCTGGGAAGAA
93996 IS	[GT]		ATACACTTCTTT
94005 I		A	CCCTCCGTGTGGGAGCGGCT
94005 P	G	A	ATGACGTGGCAGACGTCAGCTCGCTTCTCY
94005 P	A	A	CGCGCCGAGGATCAGCTCGCTTCTCCY
94005 T	G	A	TGGTGGAGAAGCGAGCTGACGCCGCTCCCACACGGAGGGCA
94005 T	A	A	TGGTGGAGAAGCGAGCTGATGCCGCTCCCACACGGAGGGCA
			AGGGCCACTGCGCTCTTGGTCCCGGGGCTGCGATGGGCTGCCCTCCGTGTGGGAGCCGGC[GA]TCAGCTCGCTTCTCCCACCACCACCTGGCGGCTCAGCTTGGCGCAGATG
94005 IS	[GA]		GCGTTCAGCTTC
94006 I		A	GCAGGCAGCTCTGACCTCAATACAGGGCT
94006 P	G	A	ATGACGTGGCAGACGGTCAAGCACACAGCY
94006 P	A	A	CGCGCCGAGGAGTCAAGCACACAGCTY
94006 T	G	A	GCTCAGCTGTGTGCTTGACTGCCCTGTATTGAGGTCAGAGCTGCCTGCTG
94006 T	A	A	GCTCAGCTGTGTGCTTGACTGCCCTGTATTGAGGTCAGAGCTGCCTGCTG
			CACATGGCCATCTCAGGCTAGCCTGTTGCCCAGCAGGCAGCTCTGACCTCAATACAGGGC[GA]GTCAAGCACACAGCTGAGCCCTGCATCACCATGTCCCAGCTTGACTGC
94006 IS	[GA]		CCAGCCCGCCC
94013 I		S	CCTCCATGCAAGTACTGTGGAGCAAACAGATATGGTGT
94013 P	G	S	ATGACGTGGCAGACAGCCCTCAAGAATTTATGGY
94013 P	T	S	CGCGCCGAGCAAGGCCTCAAGAATTTATGGY
94013 T	G	S	TGGACCATAAATTCTTGAGGCCTGCACCATATCTGTTTCCTCCACAGTACTTGCATGGAGGAG
94013 T	T	S	TGGACCATAAATTCTTGAGGCCTCACCATATCTGTTTCCTCCACAGTACTTGCATGGAGGAG
			ATCCTACTGTGCATAGCCATAGGTCCATCTCCTCAGCTGGACCATAAATTCTTGAGGCCT[GT]CACCATATCTGTTTCCTCCACAGTACTTGCATGGAGGAGGTCTTCAGA
94013 IS	[GT]		TAACATGGACTG
94019 I		A	TGCCCCTTGCAGCACCAGCCCTA
94019 P	C	A	ATGACGTGGCAGACCGTCTCCCCCAAAACTY
94019 P	T	A	CGCGCCGAGGTCTCCCCCAAAACTY
94019 T	C	A	CTGCAGTTTTGGGGGAGACAGAGGCCTGGTCGTCCAAGGGCAAA
94019 T	T	A	CTGCAGTTTTGGGGGAGACAAGGGCTGGTCGTCCAAGGGCAAA
			CTCCCTCCTCCCTCCCTCTGTCCCCAGGCTTCGTGTTTTGCCCCTTGGACGACCAGCCCT[CT]GTCTCCCCCAAAACTGCAGCTCCATCACCGAAGCACCCTTAGTGCCCAGC
94019 IS	[CT]		TCCTGTCTTG
94022 I		A	GGGTCACTGCAGAAAATTACTTTTATGCAGACAAAGGAACACAA
94022 P	C	A	ATGACGTGGCAGACGGTCTGGAAAAGGAACTAAAY
94022 P	T	A	CGCGCCGAGGTGTCTGGAAAAGGAACTAAAGY
94022 T	C	A	TTTTCTTTAGTTCCTTTTCCAGACGTGTGTTCCTTTGTCTGCATAAAGTAATTTTCTCCAGTGACCCTA
94022 T	T	A	TTTTCTTTAGTTCCTTTTCCAGACATGTGTTCCTTTGTCTGCATAAAGTAATTTTCTCCAGTGACCCTA
			TTCTATTACATAGTTTAGGGTCACTGGAGAAAATTACTTTTATGCAGACAAAGGAACACAC[TG]TGTCTGGAAAAGGAACTAAAGAAAAATGTGGCAGTTCTTATCTATTT
94022 IS	[CT]		TATTCCCTGAAGAA
94046 I		A	ACGCCTGATCTTGCACCAGGCTCCAA
94046 P	T	A	CGCGCCGAGGTGTTTGATCCATTCCCTAAAY





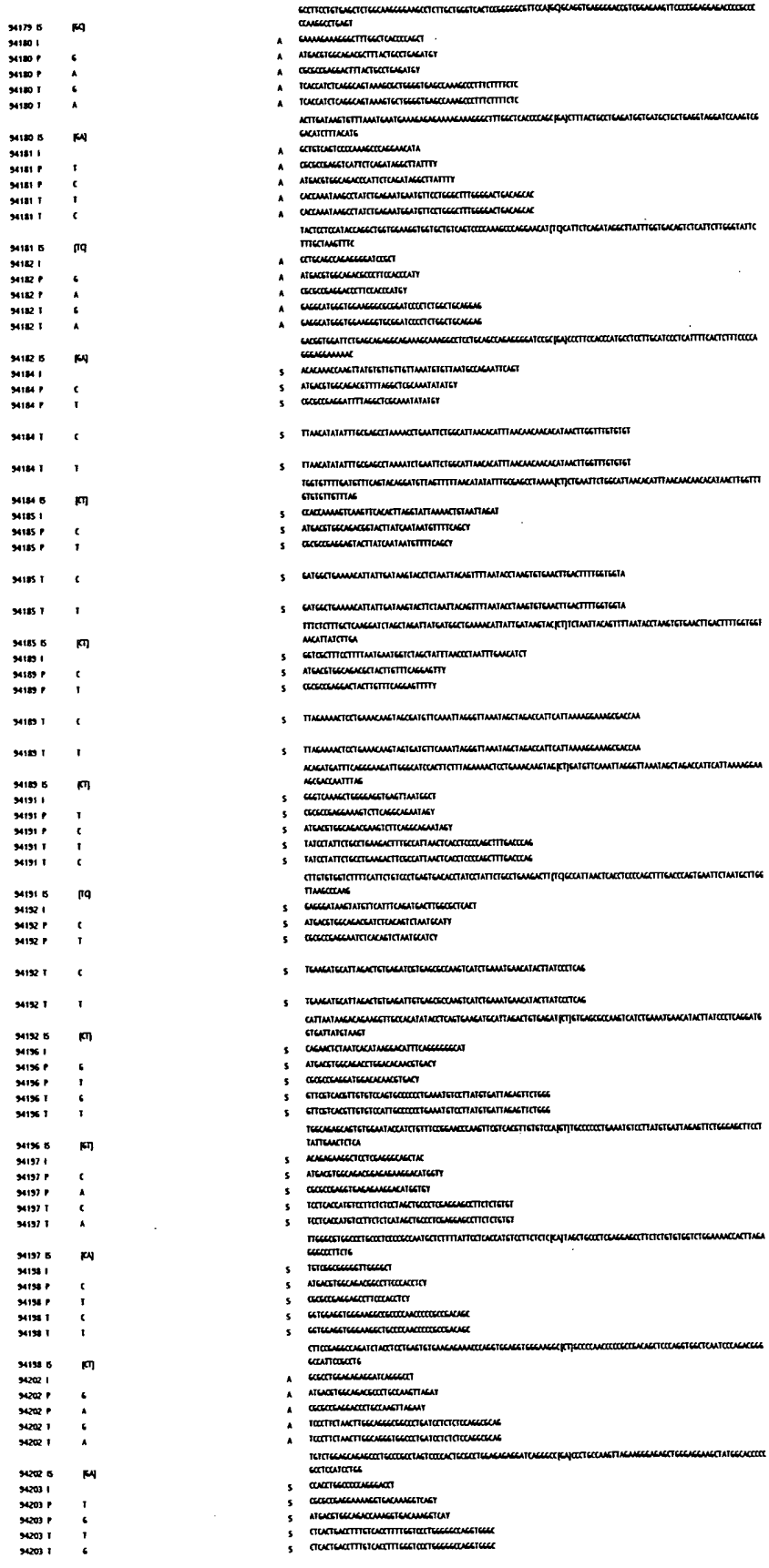




FIGURE 129C

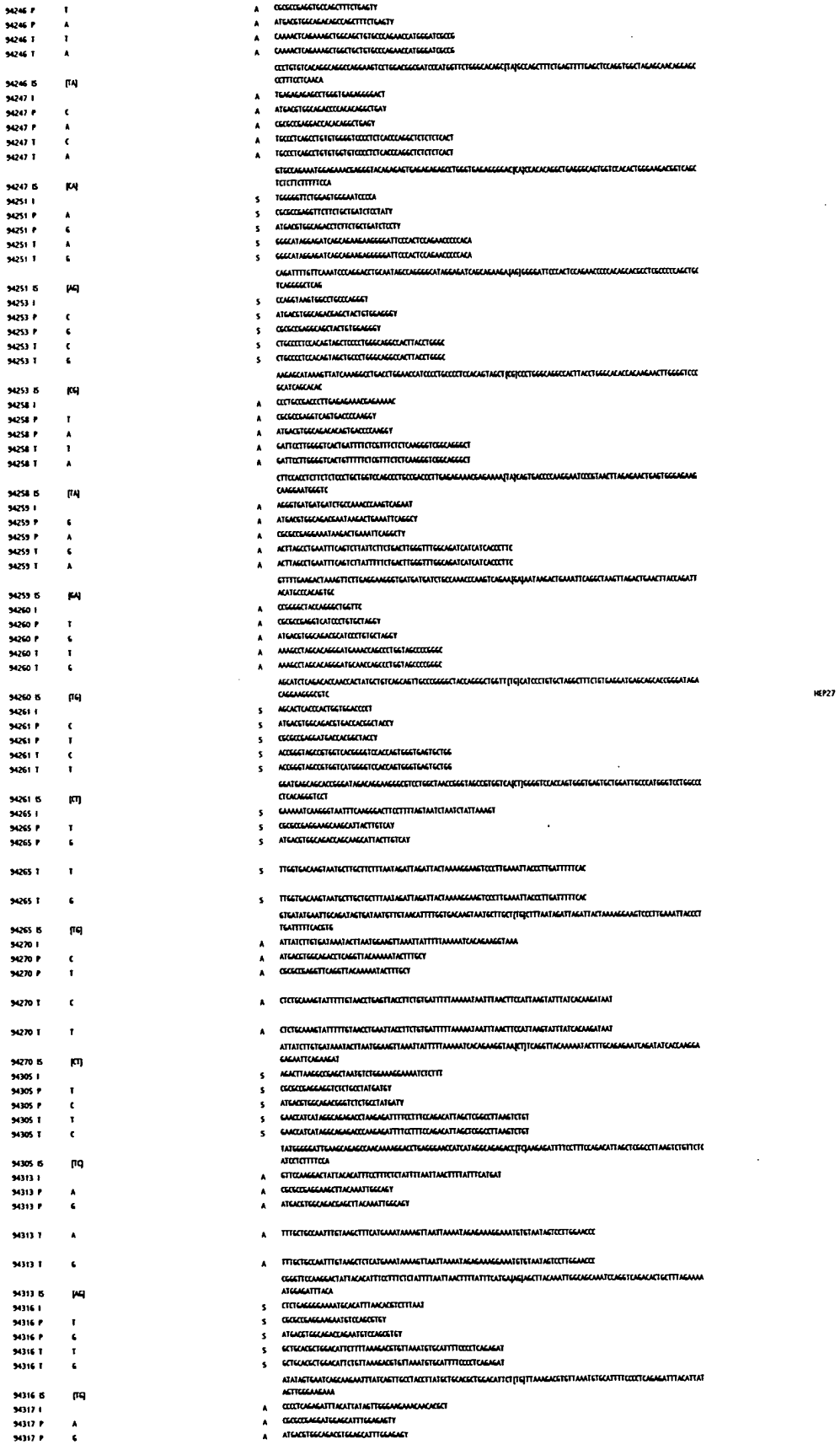


FIGURE 129C

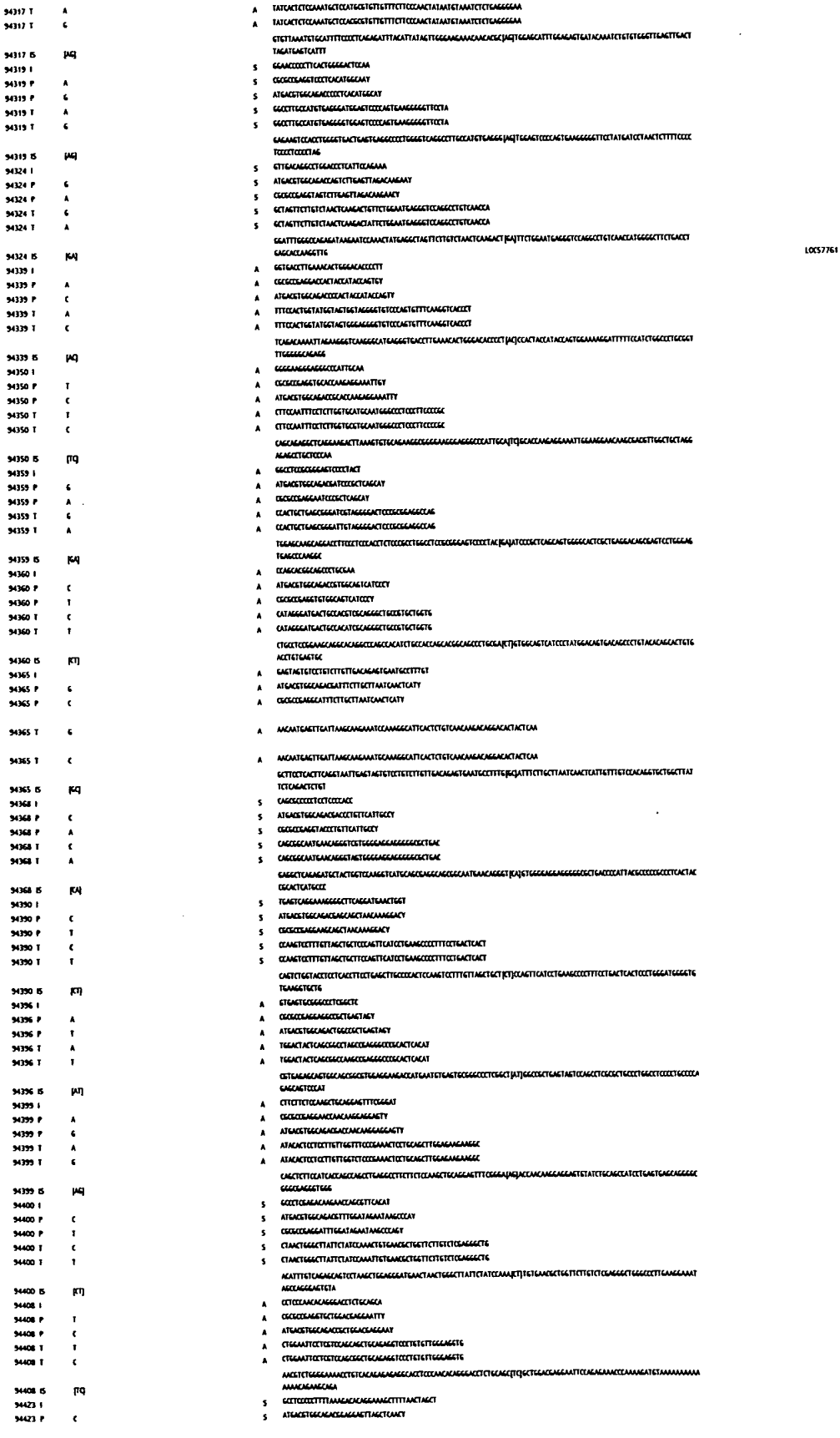
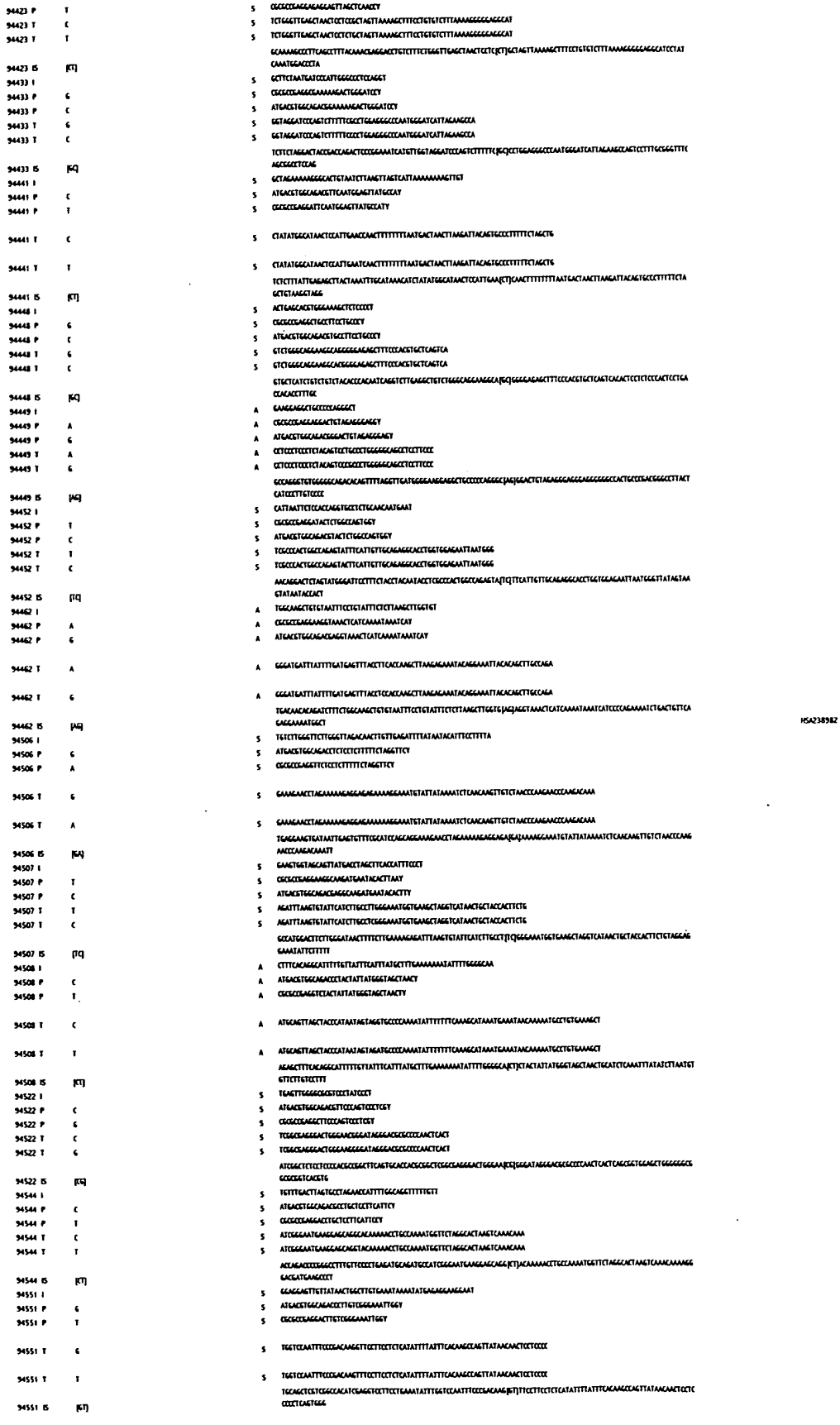
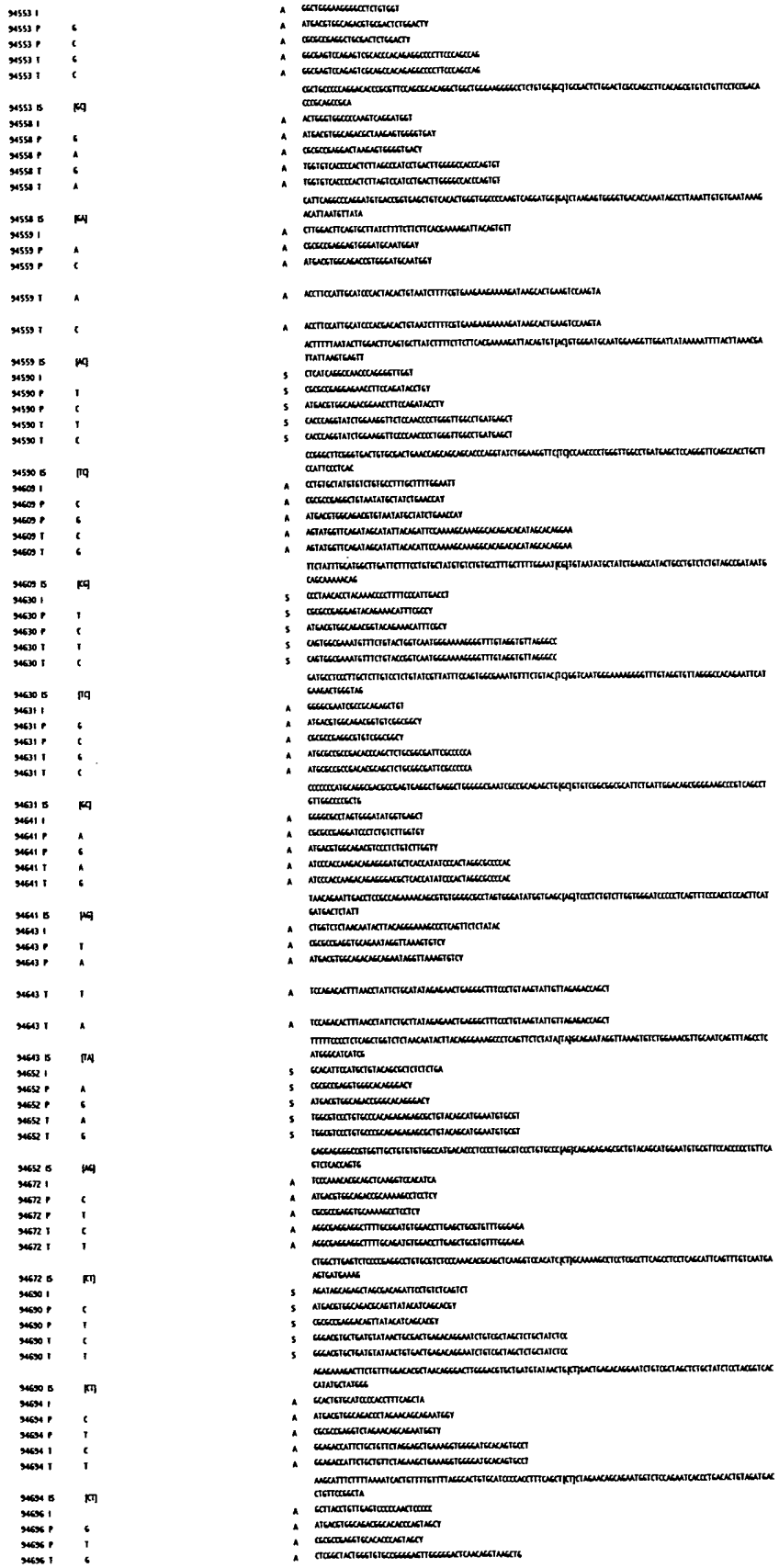
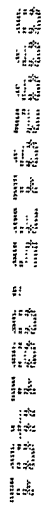


FIGURE 129C



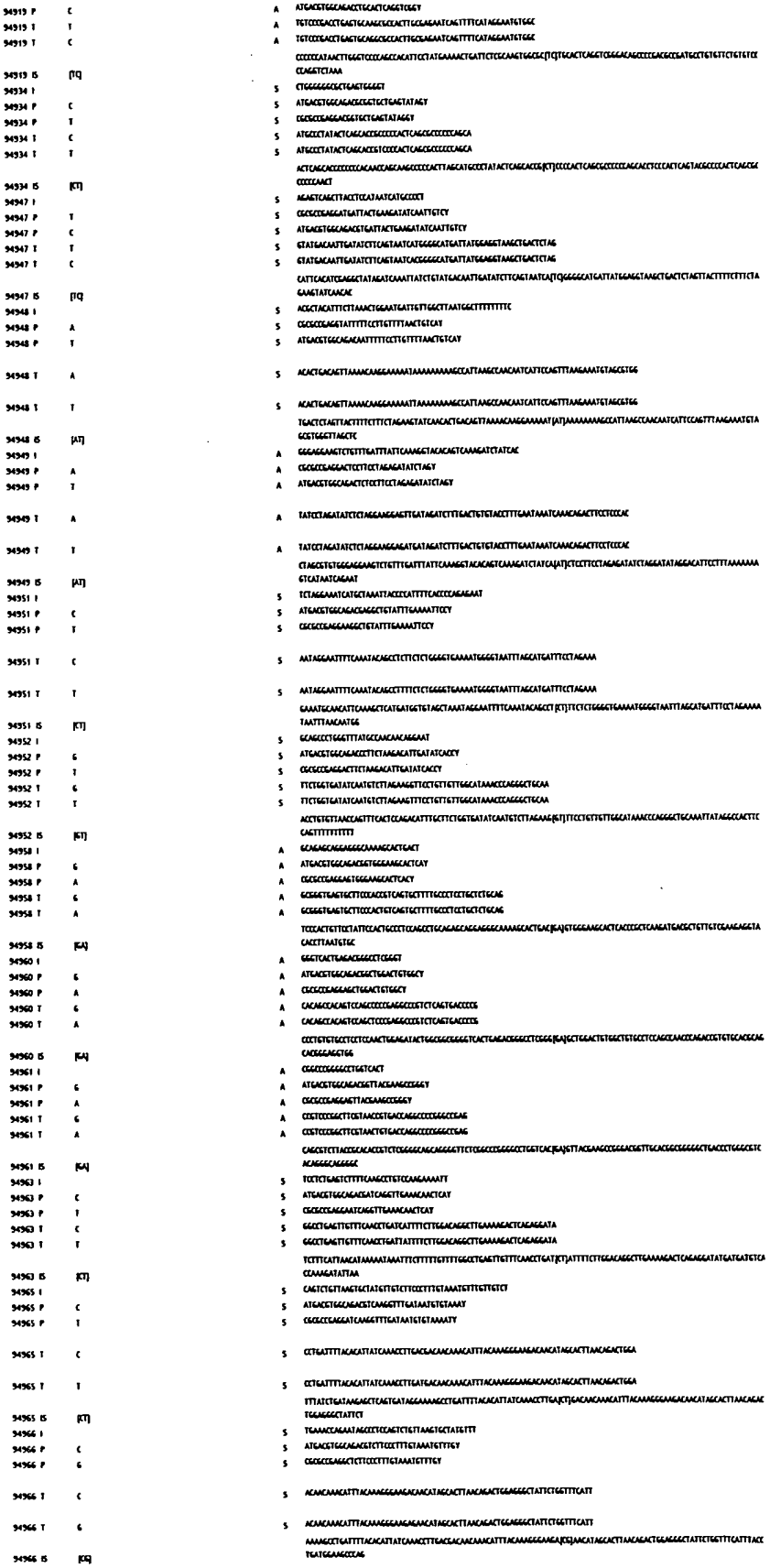


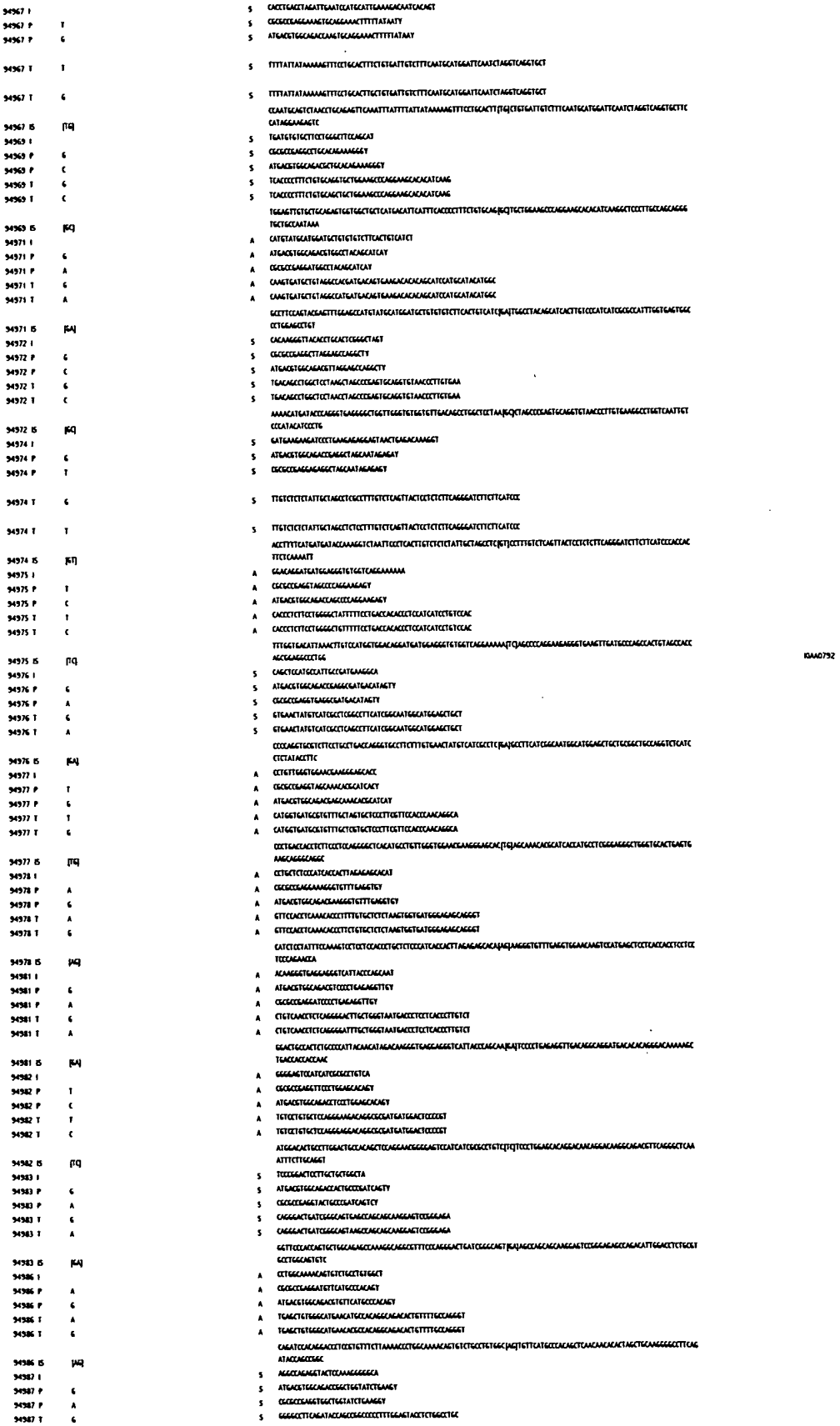


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94697 P	G	A	ATGACGTGGCAGACGAAGTGCACTCAGGTCT	
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94713 P	A	A	CGCGCCGAGGAGCCTCTGAATGCTCTY	
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94768 P	T	S	CGCGCCGAGGACCTGCATGATACTGCAT	
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94791 T	G	A	AACTACATCTTCGTCTTTAATTACCTGTATGCTGTGCCAACACCAAGGTGAACTGGCC	



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Docket No. 2000-1-PCT-US

FIGURE 129C

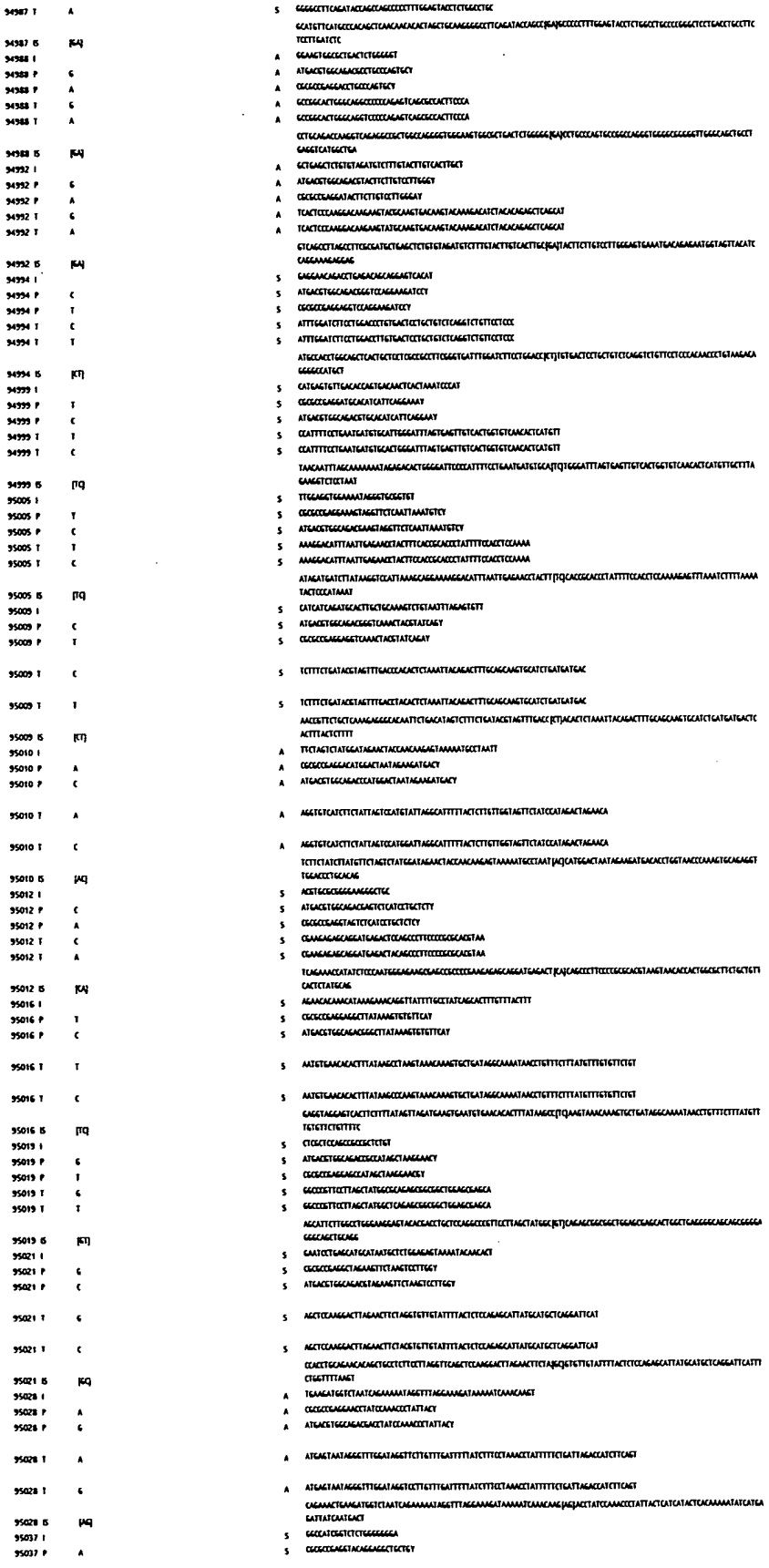
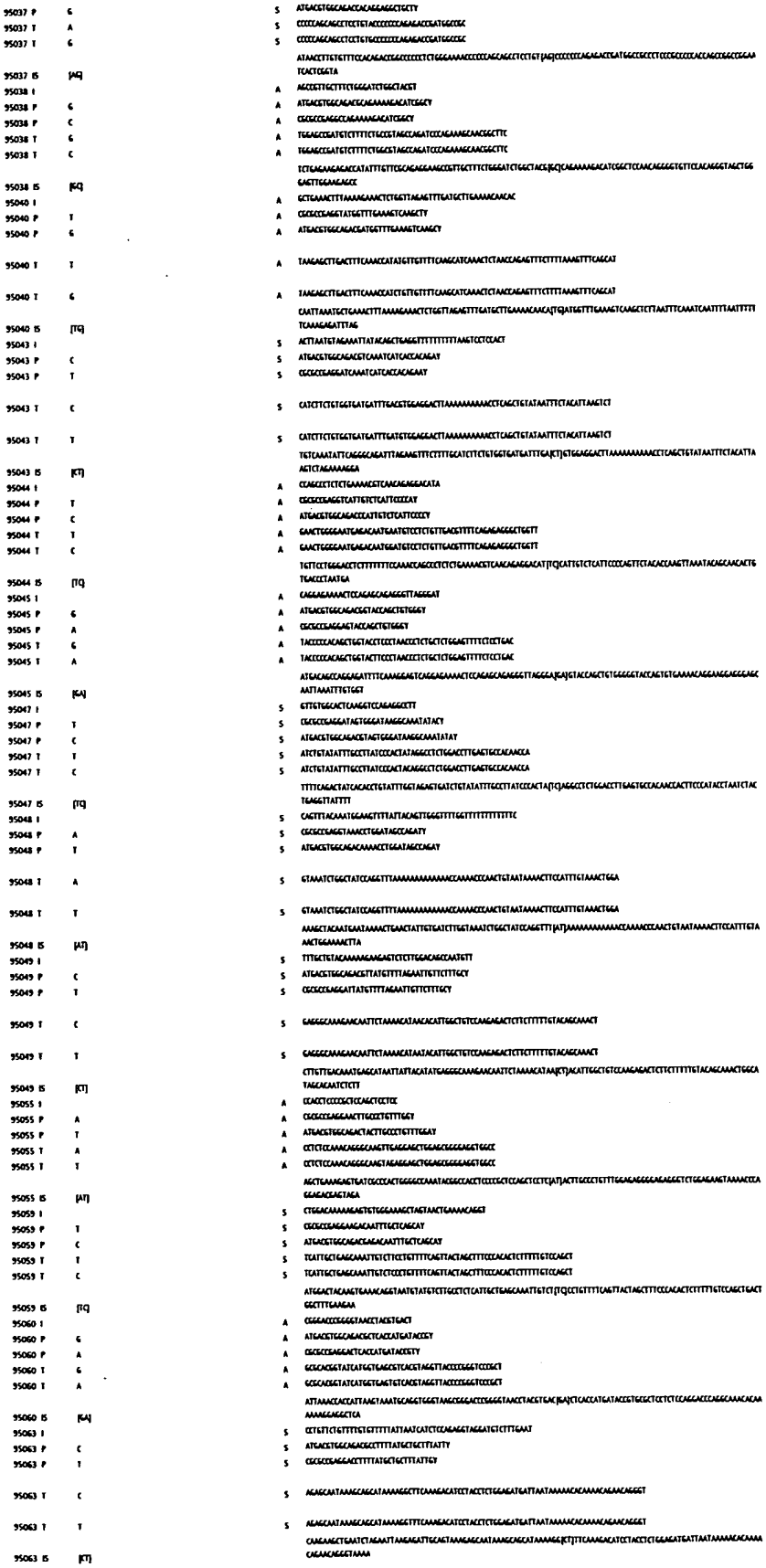


FIGURE 129C



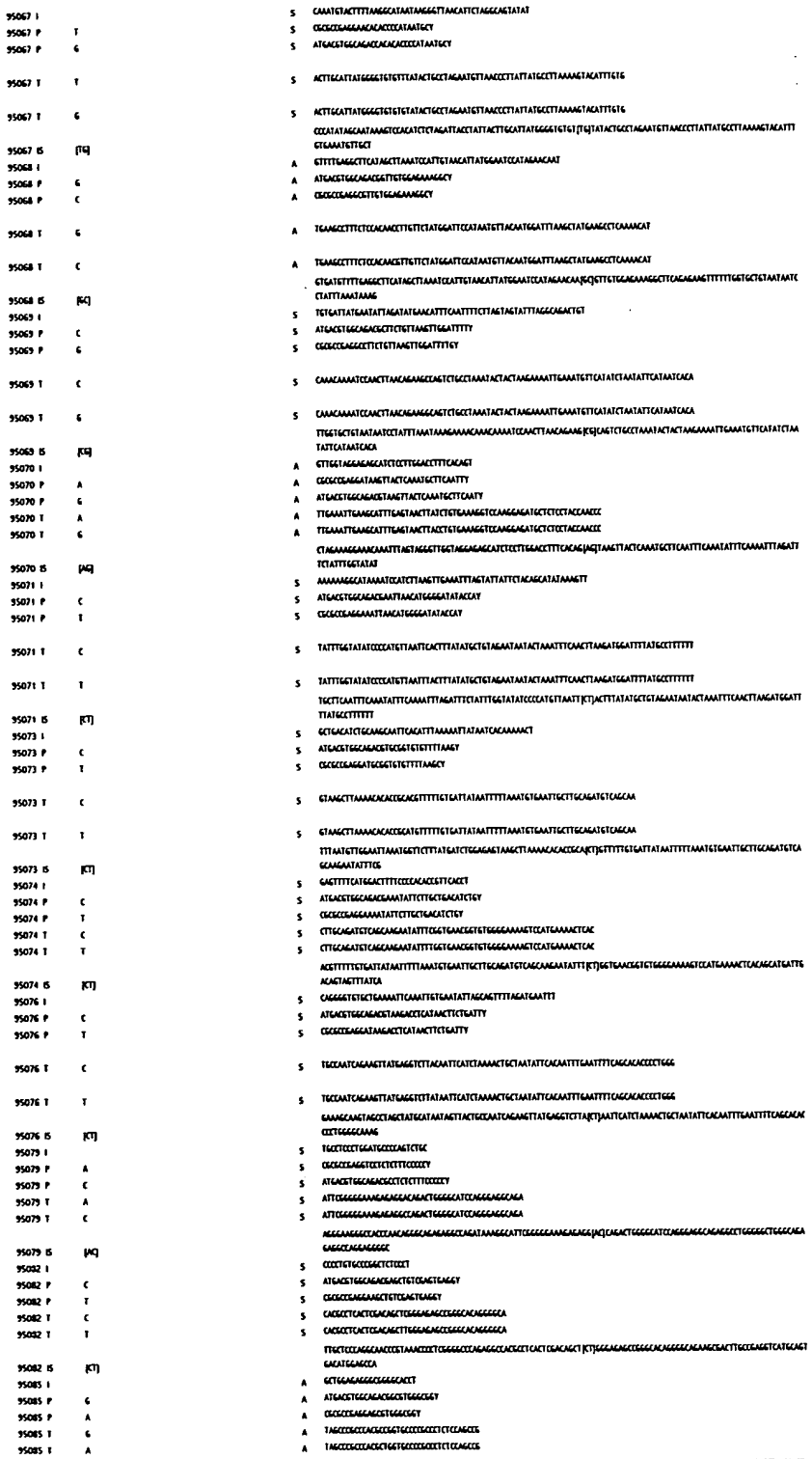
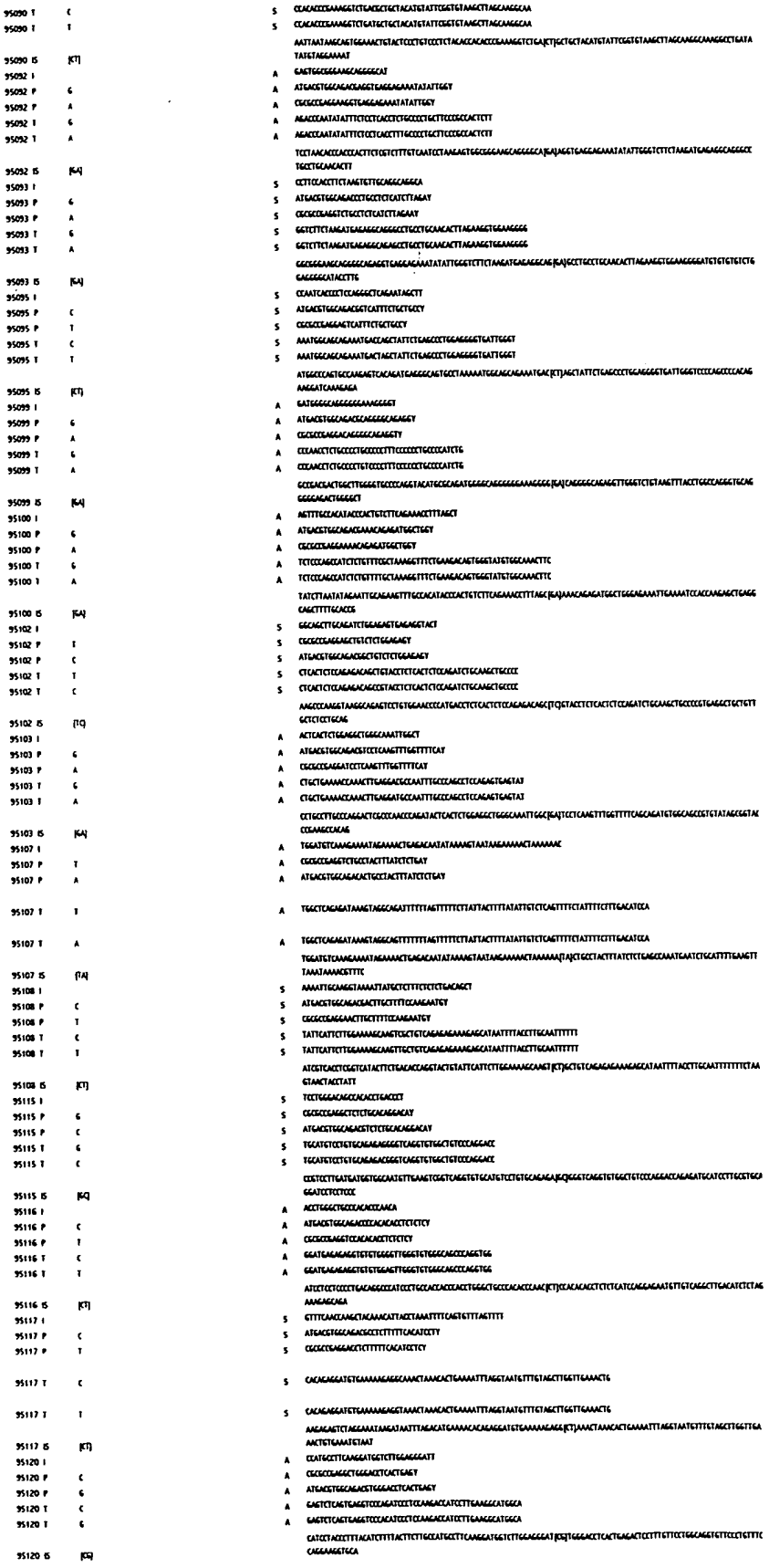
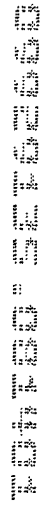
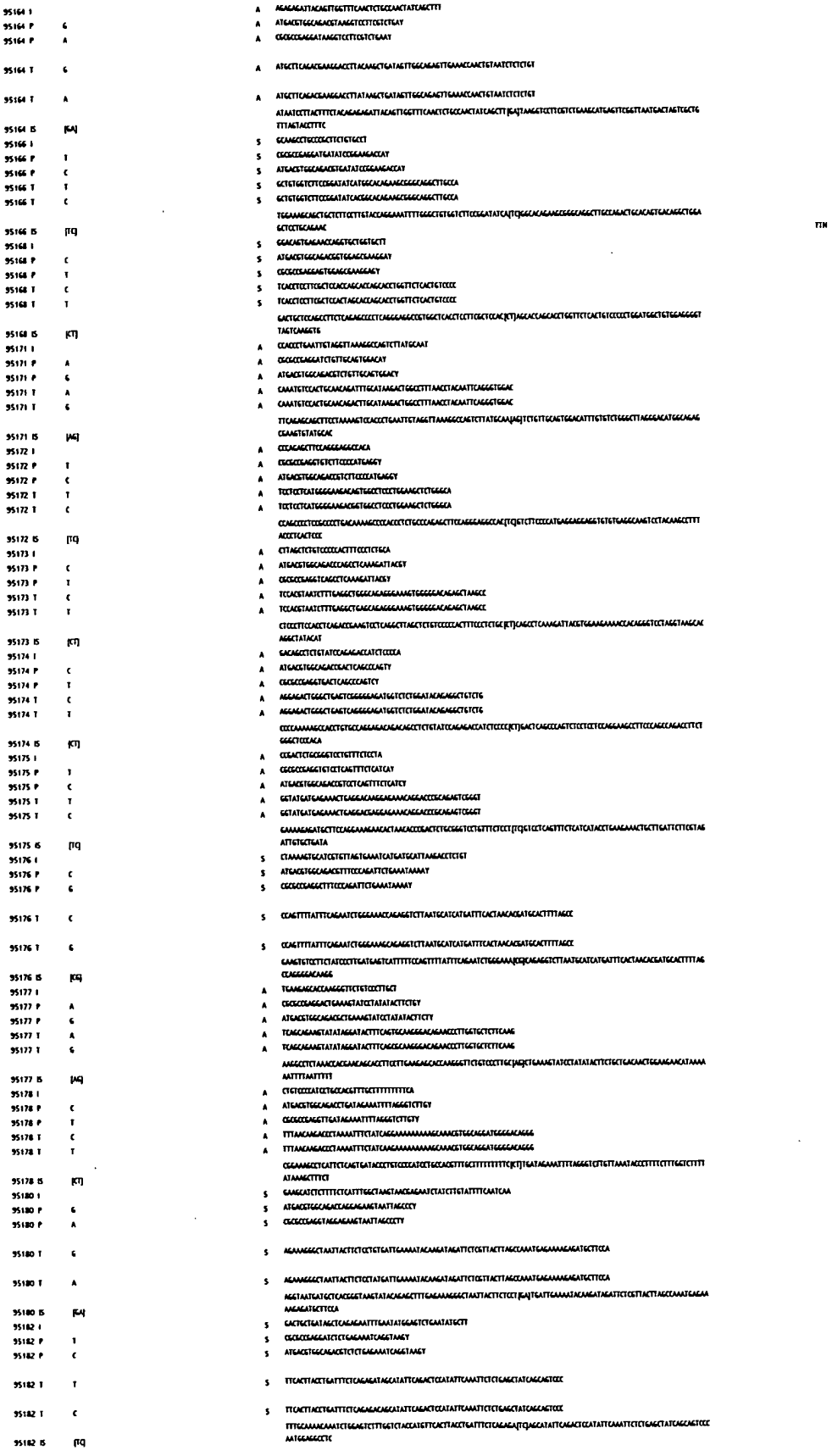
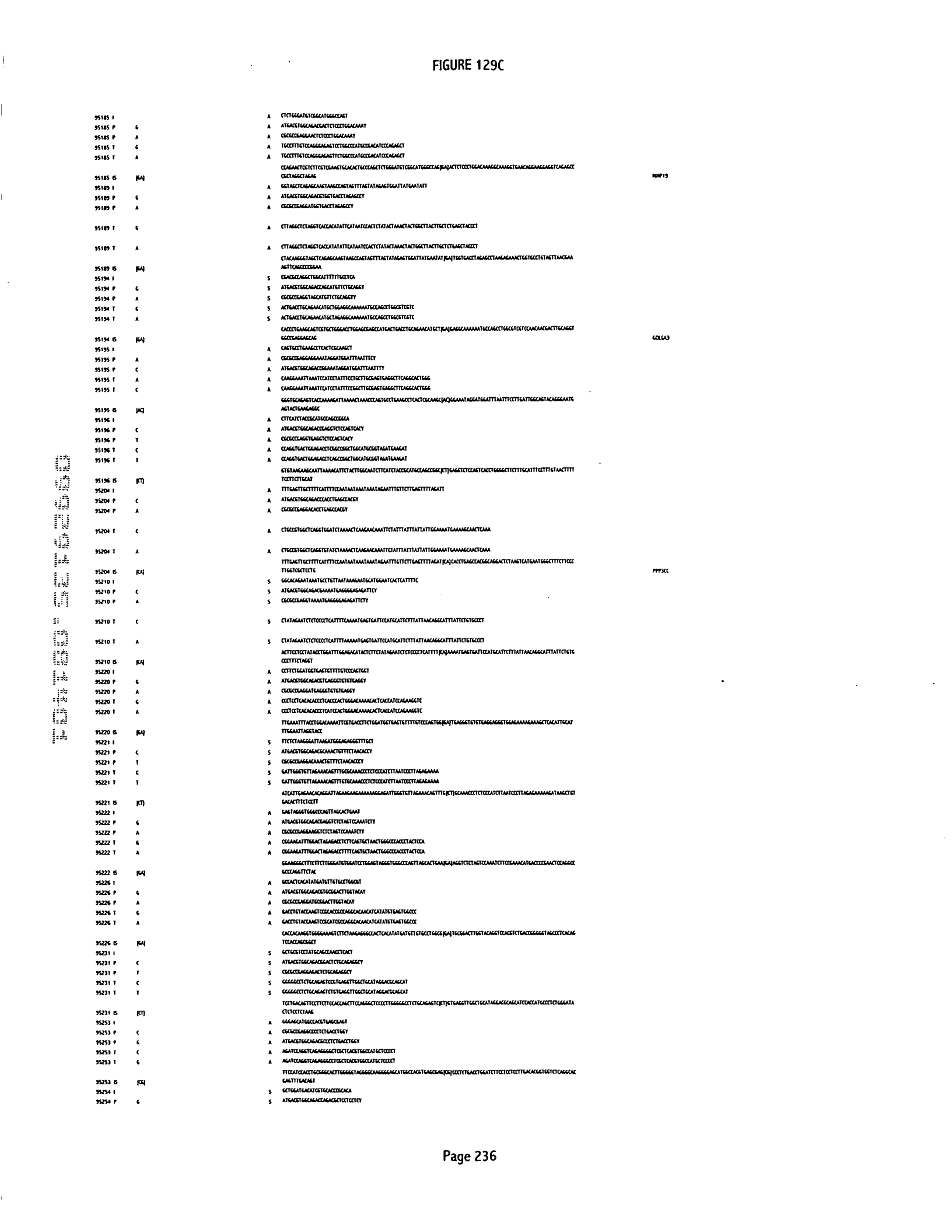


FIGURE 129C



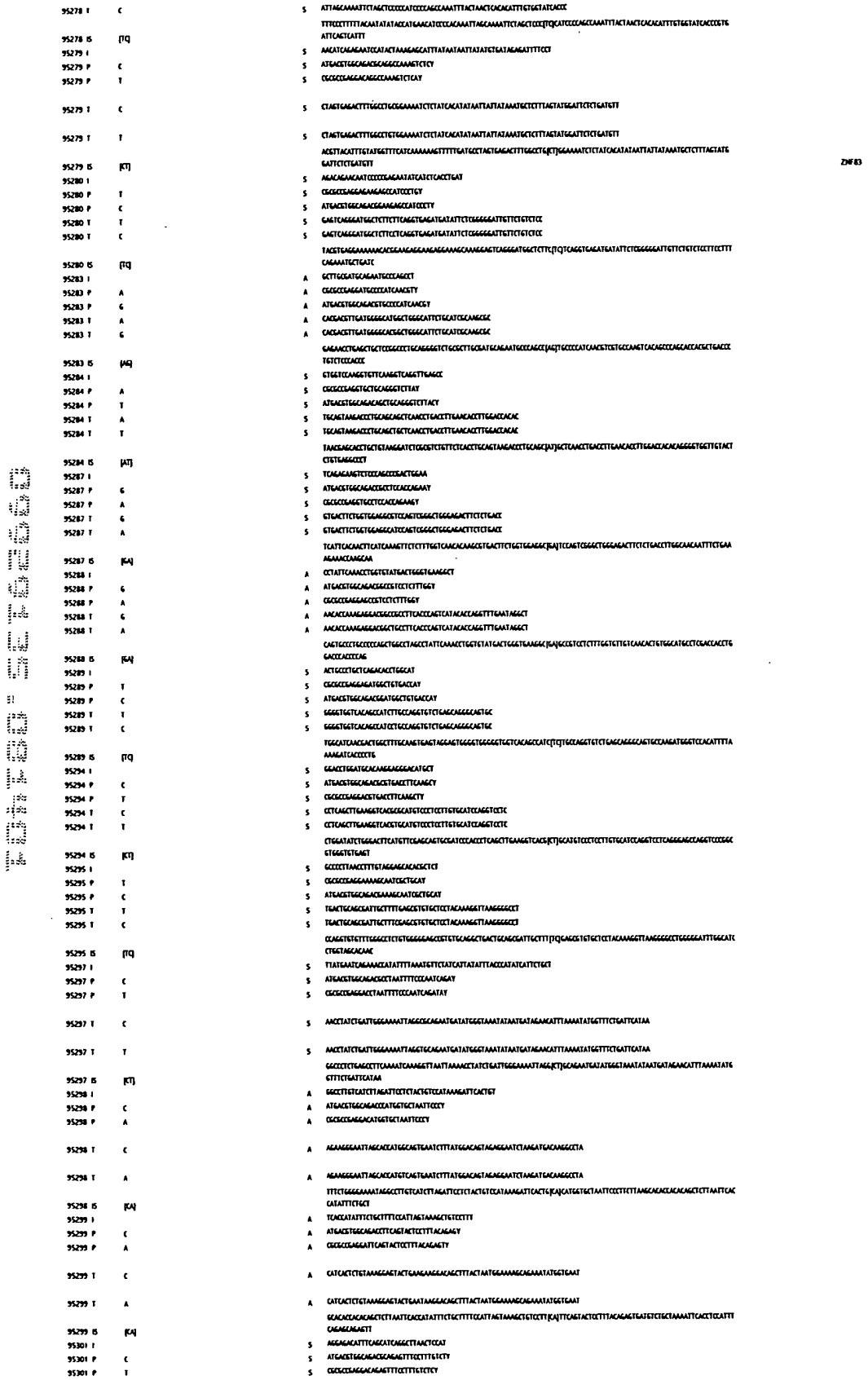


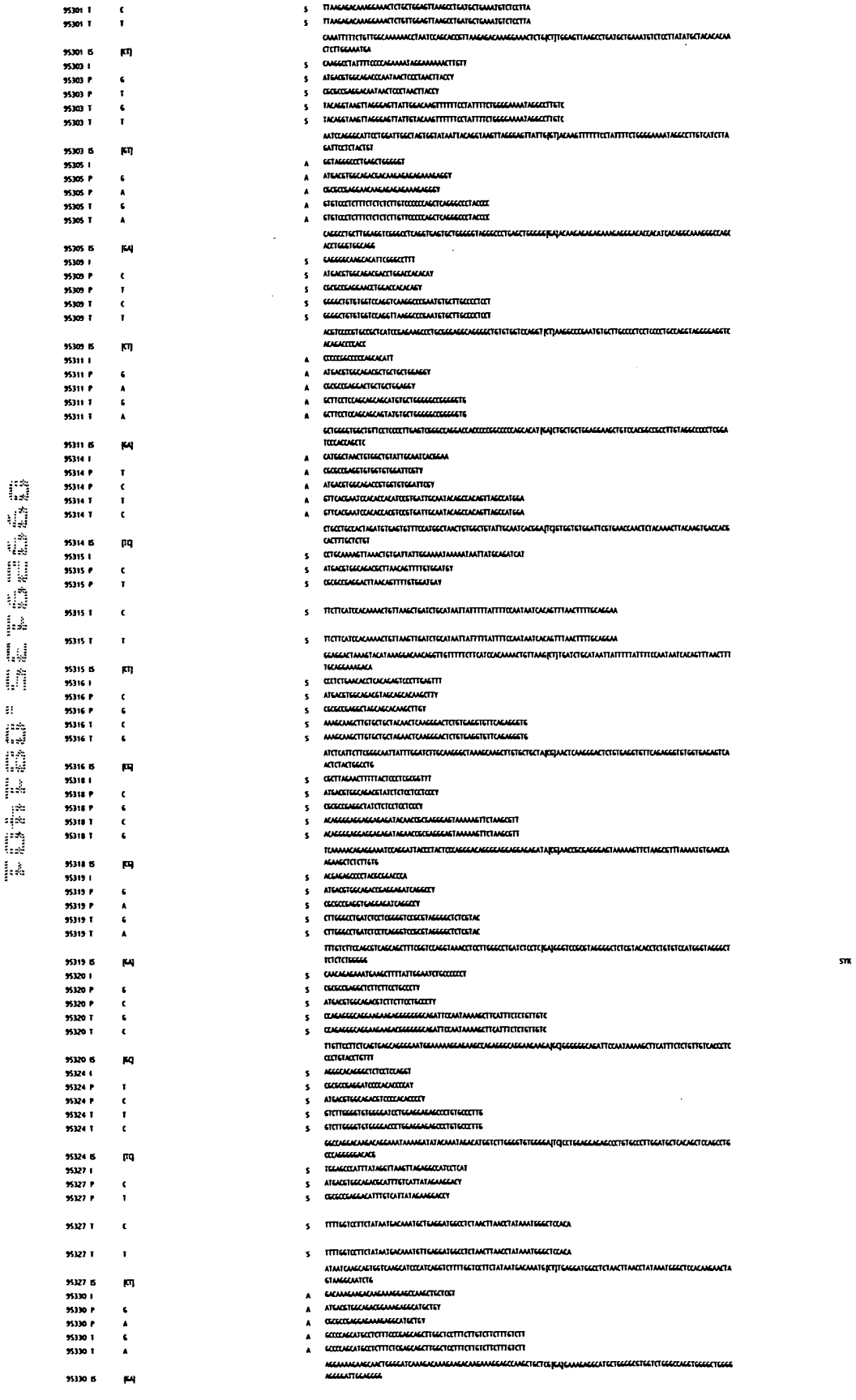






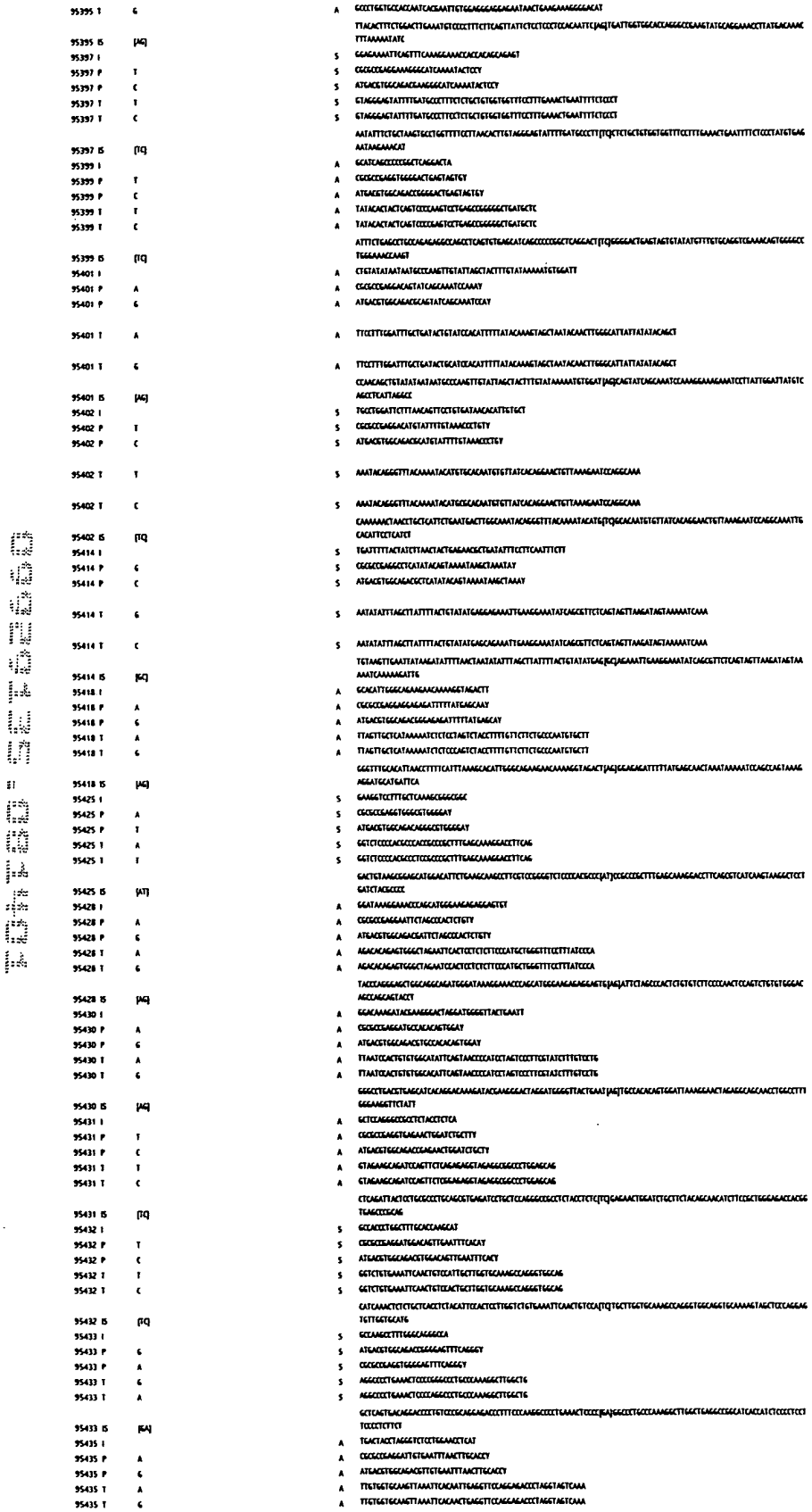
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95338 T A A CATGGTAAGCCAAGGGCATTGGGAGCTGGTTCCCCTTGATAATGATTCCCCAG
95338 IS [GA] ACAAAGTCTGATAAAAGTAGTGACTTCCTGGGGAATCATTATCAAGGGGAACCAGCTCCC[GA]ATGCCCTTGGCTTACCATGACAATTCCCCCAGACTGGTCTGCCGTGC ACATGCTCATGAT
95339 I S GCATGGCCCCAATCATGAGCATGTGCACT
95339 P C S ATGACGTGGCAGACGGCAGACCAGTCTGGY
95339 P T S CGCGCCGAAGAGCAGACCAGTCTGGY
95339 T C S TCCCCCAGACTGGTCTGCCGTGCACATGCTCATGATTGGGGCCATGCCG
95339 T T S TCCCCCAGACTGGTCTGCTGTGCACATGCTCATGATTGGGGCCATGCCG
95339 IS [CT] AAGGGGAACCAGCTCCCGATGCCCTTGGCTTACCATGACAATTCCCCCAGACTGGTCTGCC[CT]GTGCACATGCTCATGATTGGGGCCATGCCGATGGTGGTCCCTTGGAAA TAAACCCCACTA
95344 I S CTCGAGCTACTTCATTGACGCTGCCACAGTCT
95344 P C S ATGACGTGGCAGACGACGACAGTGAGAGTAY
95344 P T S CGCGCCGAAGAACGACAGTGGAGAGTACY
95344 T C S ACCTGTACTCTCCACTGTCGTCGACTGTGGCAGCGTCAATGAAGTAGCTCGAGGC
95344 T T S ACCTGTACTCTCCACTGTCGTTGACTGTGGCAGCGTCAATGAAGTAGCTCGAGGC
95344 IS [CT] GCTGCACCGGGTCACTGAGGGTGGAGAGGTTTGTCTGGCACCTGTACTCTCCACTGTCGT[CT]GACTGTGGCAGCGTCAATGAAGTAGCTCGAGGCCTGGCTTGAGATGA GGCTCTCATTGTG MULTIPLE SHORT GENE NAMES
95364 I S AGCAGCAGTGAGGCCTCTGCTTTTCATGACTTCCA
95364 P G S ATGACGTGGCAGACCTTCCGATTAAGCCTAAGTAGY
95364 P A S CGCGCCGAAGGTTTCCGATTAAGCCTAAGTAGY
95364 T G S TGAGCTACTTAGGCTTAATCGGAAGGGAAGTCATGAAAAGCAGAGCCTCACTCCTCCTCC
95364 T A S TGAGCTACTTAGGCTTAATCGGAAGGGAAGTCATGAAAAGCAGAGCCTCACTCCTCCTCC
95364 IS [GA] CTGATCTCTGTGTCTGATGACTTTTTCTTTAATACATGAGCTACTTAGGCTTAATCGGAA[GA]GGAAGTCATGAAAAGCAGAGCCTCACTCCTCCTCCGTGGTGAAGATG TCGAAGCAGCCGT
95367 I S GTCCCTAATCTTGCCCCCGTTCTCAGGGT
95367 P C S ATGAGGTGGCAGACAGAGTCCTAAGGCTCAATAATAAY
95367 P G S CGCGCCGAAGGCAGTCCTAAGGCTCAATAATAAY
95367 T C S ATTTTTATTATTGAGCCTTAGGACTCCCCTGAGAACGGGGGCAAGATTAGGGACCC
95367 T G S ATTTTTATTATTGAGCCTTAGGACTGCCCTGAGAACGGGGGCAAGATTAGGGACCC
95367 IS [CG] ACCGGGCAATCGCGTTCTCTCCTTTTTCTTATTTTATTTTTATTATTGAGCCTTAGGACT[CG]CCCTGAGAACGGGGGCAAGATTAGGGACCCTTGCCTTCCTCGTAGAAA TGGGGAAGGTGA
95368 I A CCAGAGCCGAGGTGCGTGTGTATCCCT
95368 P G A ATGACGTGGCAGACGCAGGTGATGAGGGAY
95368 P A A CGCGCCGAAGGACAGGTGATGAGGGAY
95368 T G A CCTCCTCCCTCATCACCTGCGGGAATACACACGCACCTCGGCTCTGGCC
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95373 I S CCGTTCTCAGCGGAGTCCTAAGGCTCAATAATAAAAATAAAATAAGAAAAAGT
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95373 P G S ATGACGTGGCAGACGCAGAACGCGATTGCY
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95373 T G S CCGGGCAATCGCGTTCTCGCCTTTTTCTTATTTTATTTTTATTATTGAGCCTTAGGACTCCCCTGAGAACGGGG
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95377 P T S CGCGCCGAAGGAAGGGAAGGACAGTGY
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95379 P G A ATGACGTGGCAGACGGAAATGGCCCATTGCY
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95383 P C S ATGACGTGGCAGACGGACCATGGAGAGTGGY
95383 P G S CGCGCCGAGGCGACCATGGAGAGTGGY
95383 T C S TTGGCCACTCTCCATGGTCCCGTCCTGGCCCCTCCTGTCTCAGCGAC
95383 T G S TTGGCCACTCTCCATGGTCGCGTCCTGGCCCCTCCTGTCTCAGCGAC
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95393 P C A ATGACGTGGCAGACCTCAGAAGCCGGGATY
95393 P T A CGCGCCGAAGTTCAGAAGCCGGGATY
95393 T C A GCAGATCCCCGCTTCTGAAGGGACATTATCCTCACCAGGGAGACAGGTT
95393 T T A GCAGATCCCGCTTCTGAAGGGACATTATCCTCACCAGGGAGACAGGTT
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95395 I A GTCCCCTTTCTTCAGTTATTCTCCTCCCTCCACAATTCT
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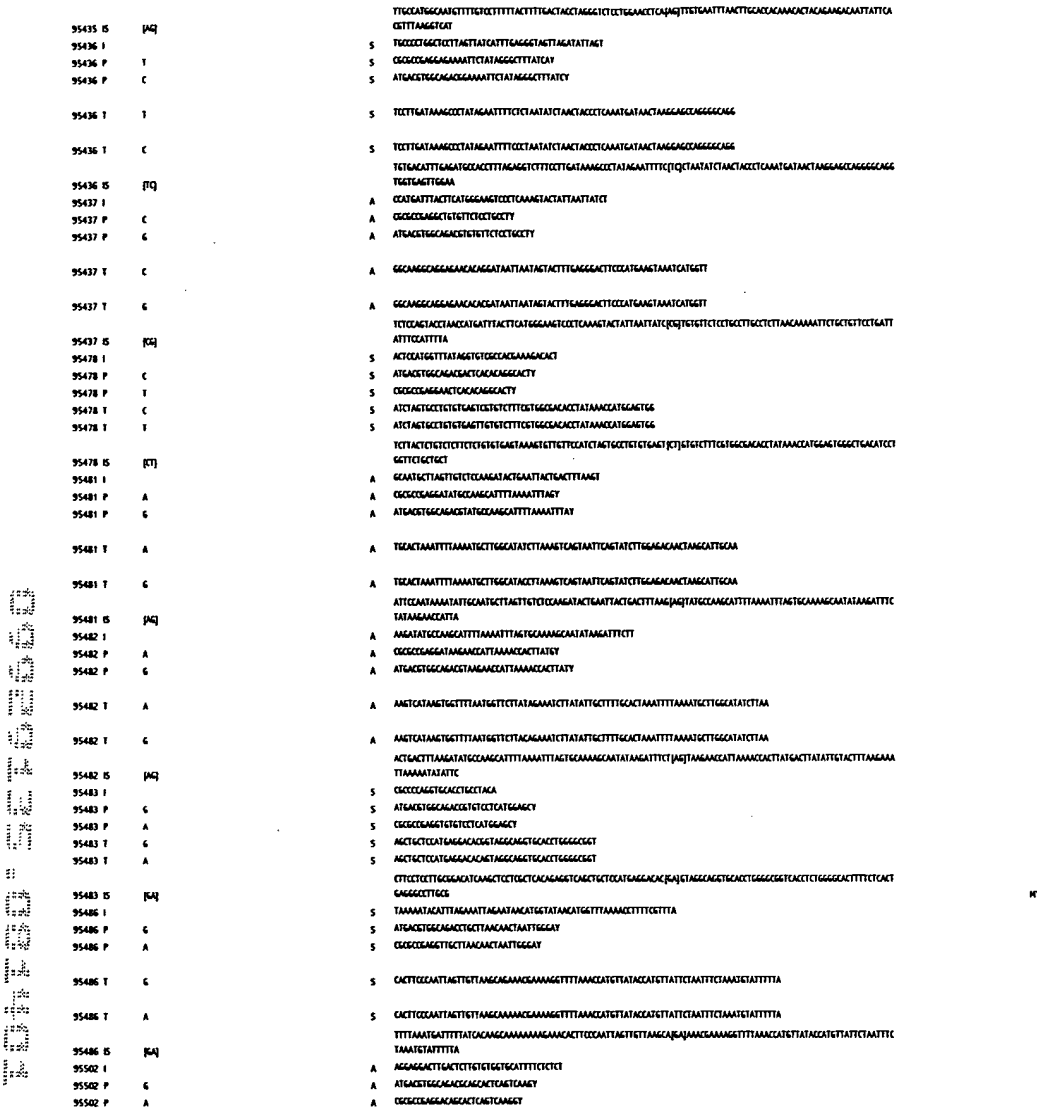
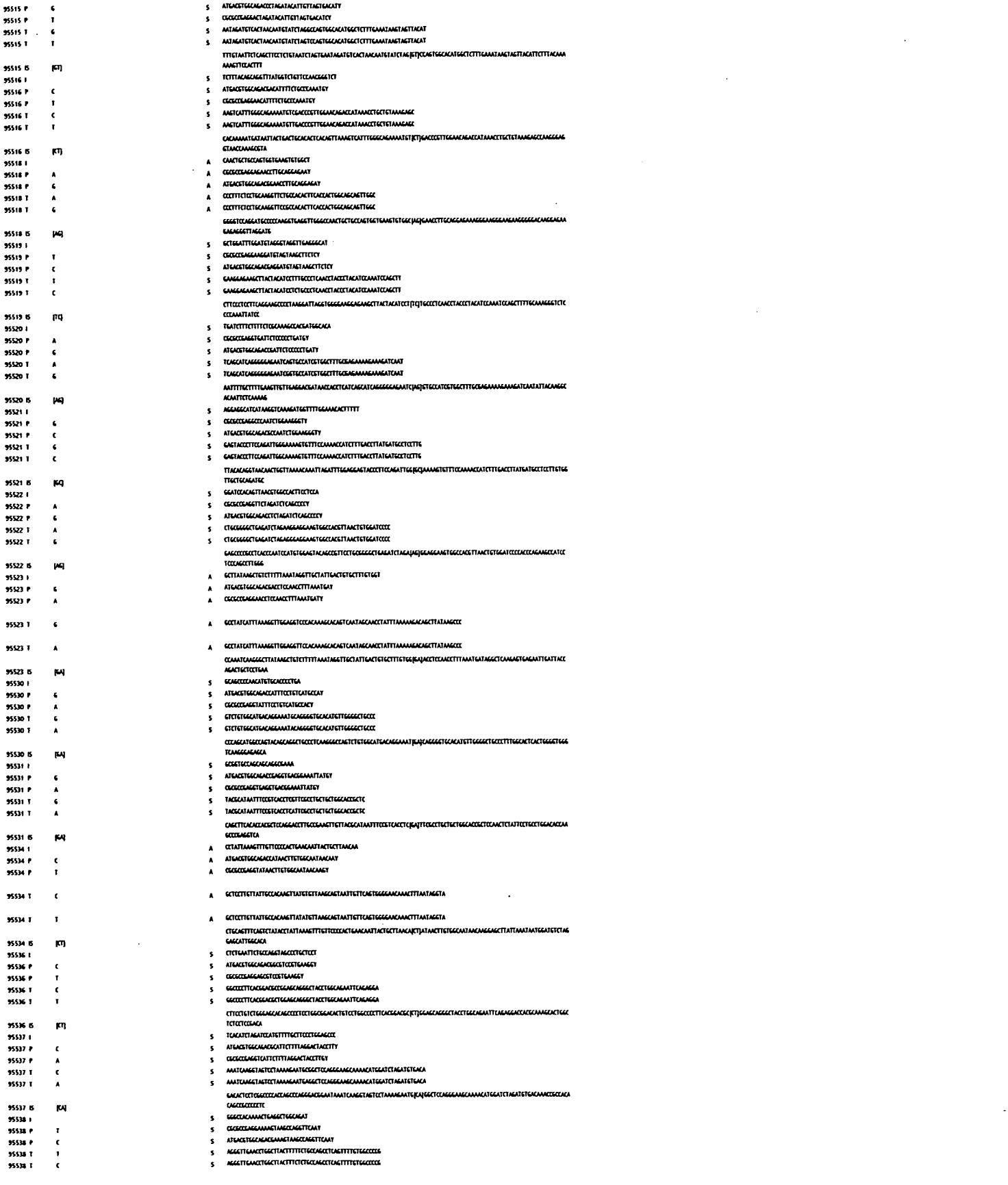


FIGURE 129C



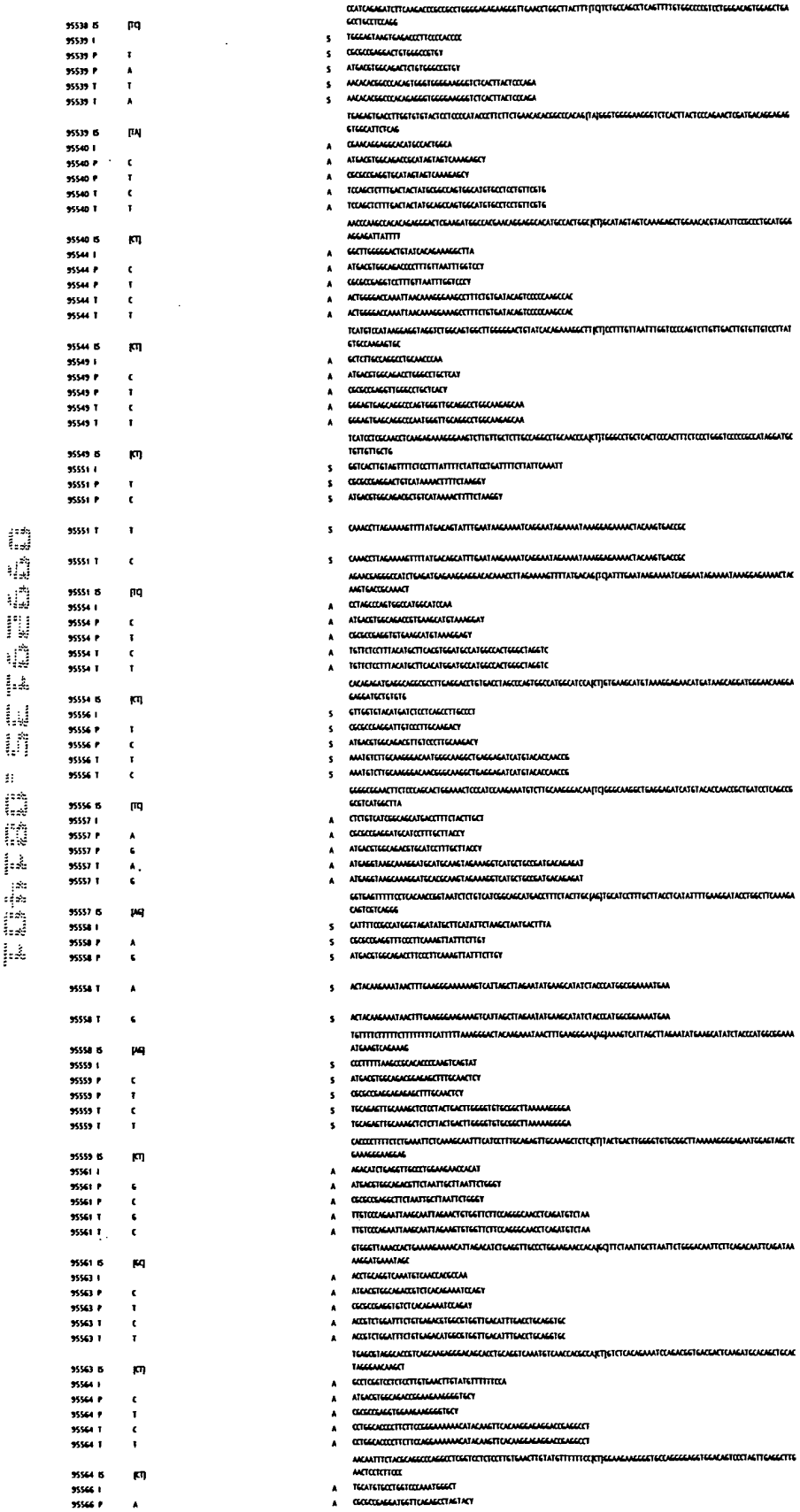
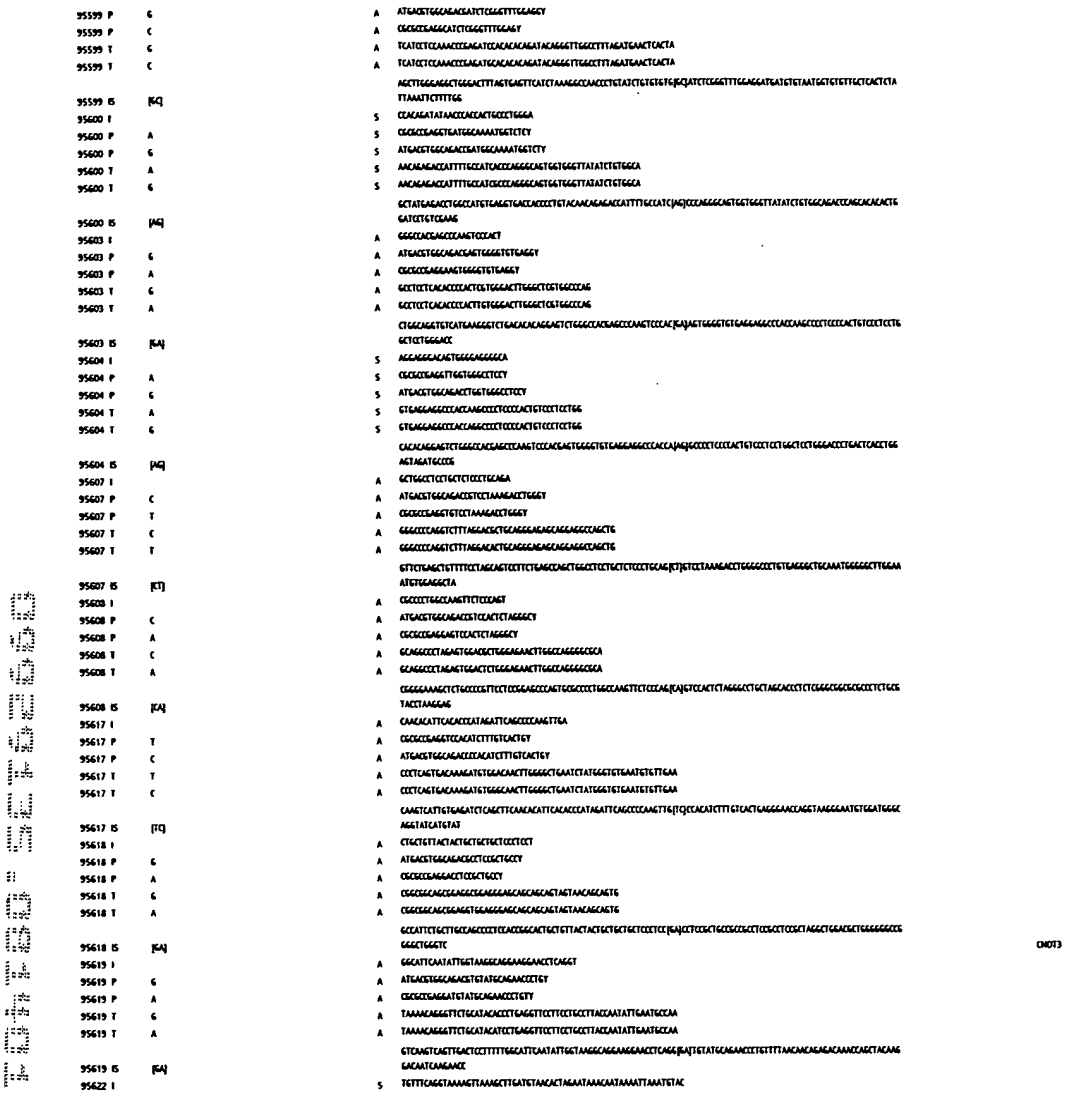
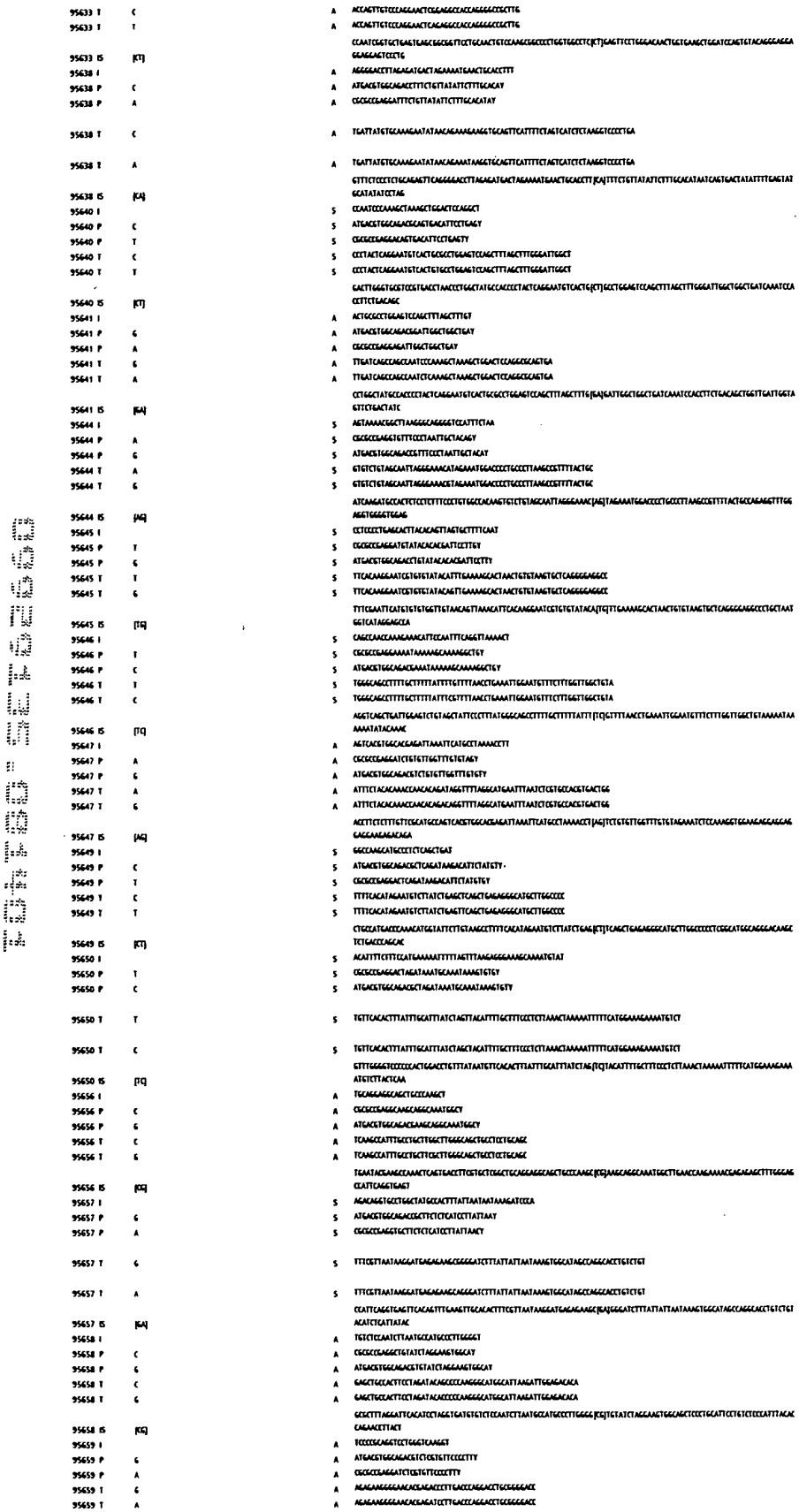




FIGURE 129C

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95566 T A A AAGGGTACTAGGCTCTGAACCATGCCCATTTGGGACCAGGCACATGCATT
95566 T G A AAGGGTACTAGGCTCTGAACCACGCCCATTTGGGACCAGGCACATGCATT
95566 IS [AG] ACTGCTAATATCACTTGTATGCTTACATTCAGTGAATGCATGTGCCTGCTCCCAAATGGGC[AG]TGGTTCAGAGCCTAGTACCCTTCCATATACACAGAAGGCAGTCACTG TGGTGATGAACTT
95567 I A GGTTCAGAGCCTAGTACCCTTCCATATACACAGAAGGCT
95567 P A A CGCGCCGAGGAGTCACTGTGGTGATGAT
95567 P G A ATGACGTGGCAGACGGTCACTGTGGTGATGAT
95567 T A A AAGTTCATCACCACAGTGACTCCCTTCTGTGTATATGGAAGGGTACTAGGCTCTGAACCAT
95567 T G A AAGTTCATCACCACAGTGACCGCCTTCTGTGTATATGGAAGGGTACTAGGCTCTGAACCAT
95567 IS [AG] GTGCCTGGTCCCAAATGGGCATGGTTCAGAGCCTAGTACCCTTCCATATACACAGAAGGC[AG]GTCACTGTGGTGATGAACTTTTTCTGTGATTCATTTAAAATAGGTAA AAGTGTTGGTATC
95568 I S GGATCTGGGAGCATTGATGGATGGGATGAATATCAAGGT
95568 P T S CGCGCCGAGGAGAAGCTGTGACCTGGY
95568 P C S ATGACGTGGCAGACGGAAGCTGTGACCTGGY
95568 T T S GCTCCCAGGTCACAGCTTCTCCCTTCATATTCATCCCATCCATCAATGCTCCCAGATCCCT
95568 T C S GCTCCCAGGTCACAGCTTCCCCTTCATATTCATCCCATCCATCAATGCTCCCAGATCCCT
95568 IS [TC] GTCCCGGCCTGCTCCCACCCACCCACATCGTGGGGAATTTGGCTCCCAGGTCACAGCTTC[TC]CCTTCATATTCATCCCATCCATCAATGCTCCCAGATCCCTCTGGATCCCC TTCCCGTCAC
95569 I S GTGTGGAGCCCCCAAGAGTCCCACAT
95569 P T S CGCGCCGAGGAATTCCTGCTGTAGGAGCY
95569 P C S ATGACGTGGCAGACGTTCCTGCTGTAGGAGCY
95569 T T S GGGAGCTCCTACAGCAGGAATTGTGGGACTCTTGGGGGCTCCACACCC
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95576 I A CTGCTCCACAATCATTTTCCAGCCCCAGTGAT
95576 P C A CGCGCCGAGGCTGTTATTGTCCCTTCTCCY
95576 P G A ATGACGTGGCAGACGTGTTATTGTCCCTTCTCCY
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95580 I A CGGAGAGGGCATCTCTGCTCTACTTCATACTGAACT
95580 P G A ATGACGTGGCAGACGATCTCAACAAAATCAACCCY
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95585 I A GCCAGGGCCGGGGCGCTCT
95585 P G A ATGACGTGGCAGACGGGGTGGGCTGTGT
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95586 IS [TC] CTTTCAGGCTATAAAATGATTATAGGCATAAGTTTTGCATATGCTTGTTTGGTATAATGG[TC]GTTAAATACCTCTAGGTGGTTTTTGAAGGAAGTGCATATGGATTA CAAAACTTTAATAA
95588 I A GCACTGCTGAATAATTCATGACGGCGGGCA
95588 P C A ATGACGTGGCAGACGGTGCCAACCCATTTY
95588 P T A CGCGCCGAGGTGTGCCAACCCATTTTCY
95588 T C A TGTTGAAAATGGGTTGGCAGGGCCGCGCTCATGAATTATTCAGCAGTGCAA
95588 T T A TGTTGAAAATGGGTTGGCAGGCCGCGCTCATGAATTATTCAGCAGTGCAA
95588 IS [CT] ATCTGGCCCCTGCCTCTGCCTGCATCCTCTTGCACTGCTGAATAATTCATGACGCGGGC[CT]GTGCCAACCCATTTTCAACAGAGGTATTGACTGGCAGCGCGAGCAAGC GGCTCTGGTGTT
95596 I S CCACTGGGGCCCTGGAGTCTGCT
95596 P C S ATGACGTGGCAGACGATCGCCAATCGCAACY
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95596 T C S TCCGGTTGCGATGGCGATCGCAGACTCCAGGCCCCAGTGGTG
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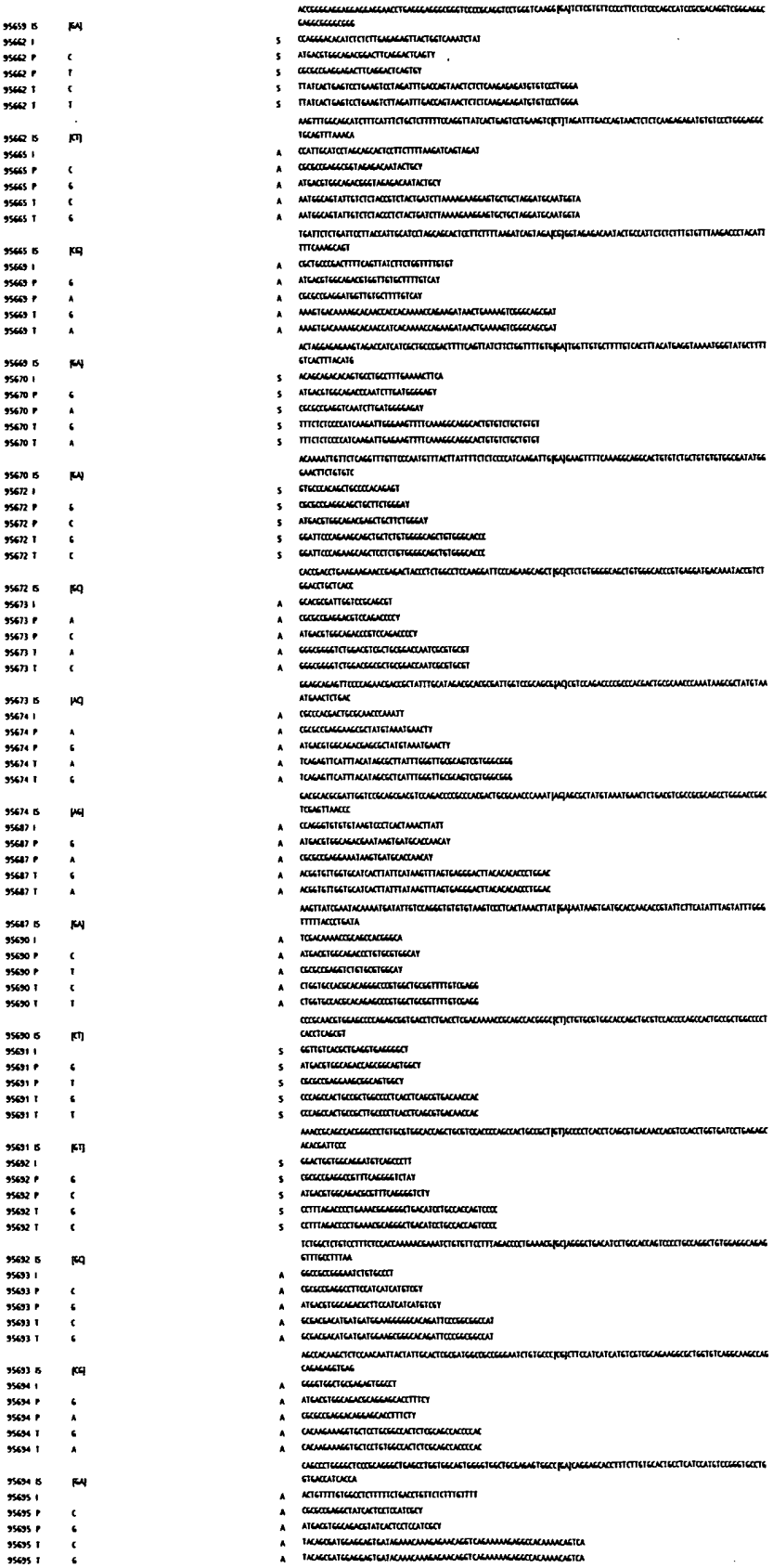
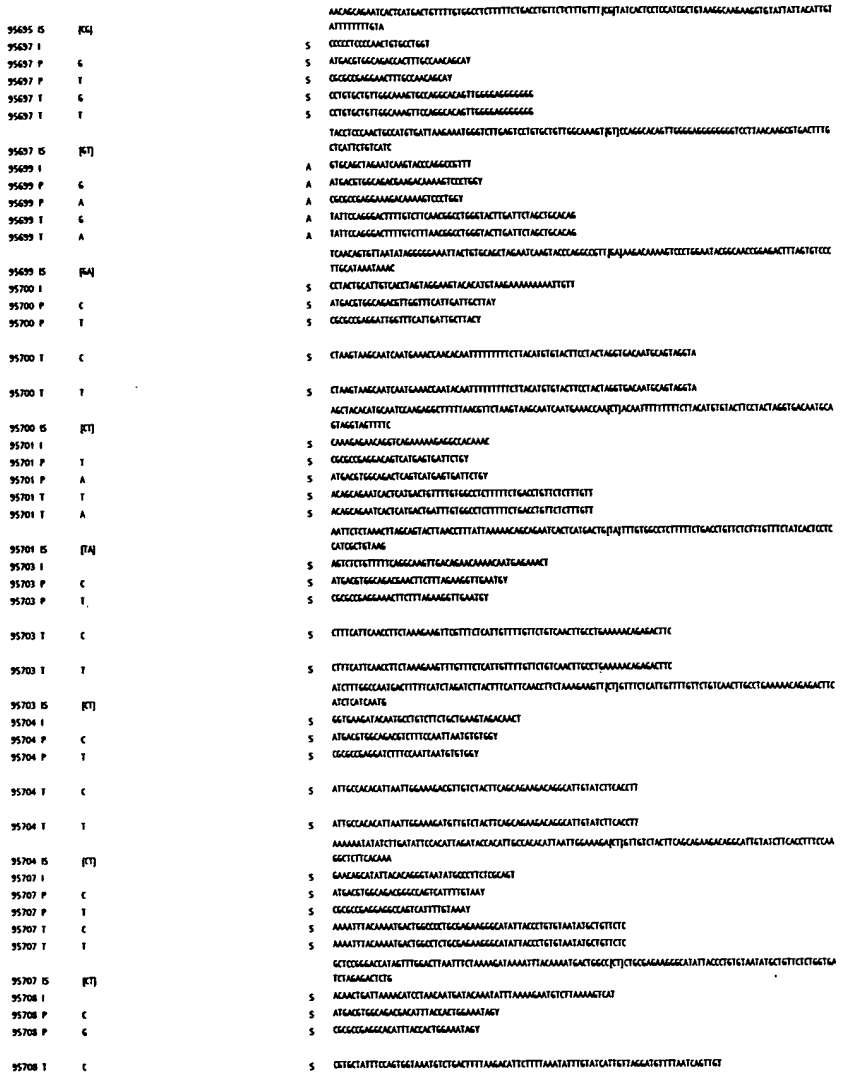


FIGURE 129C



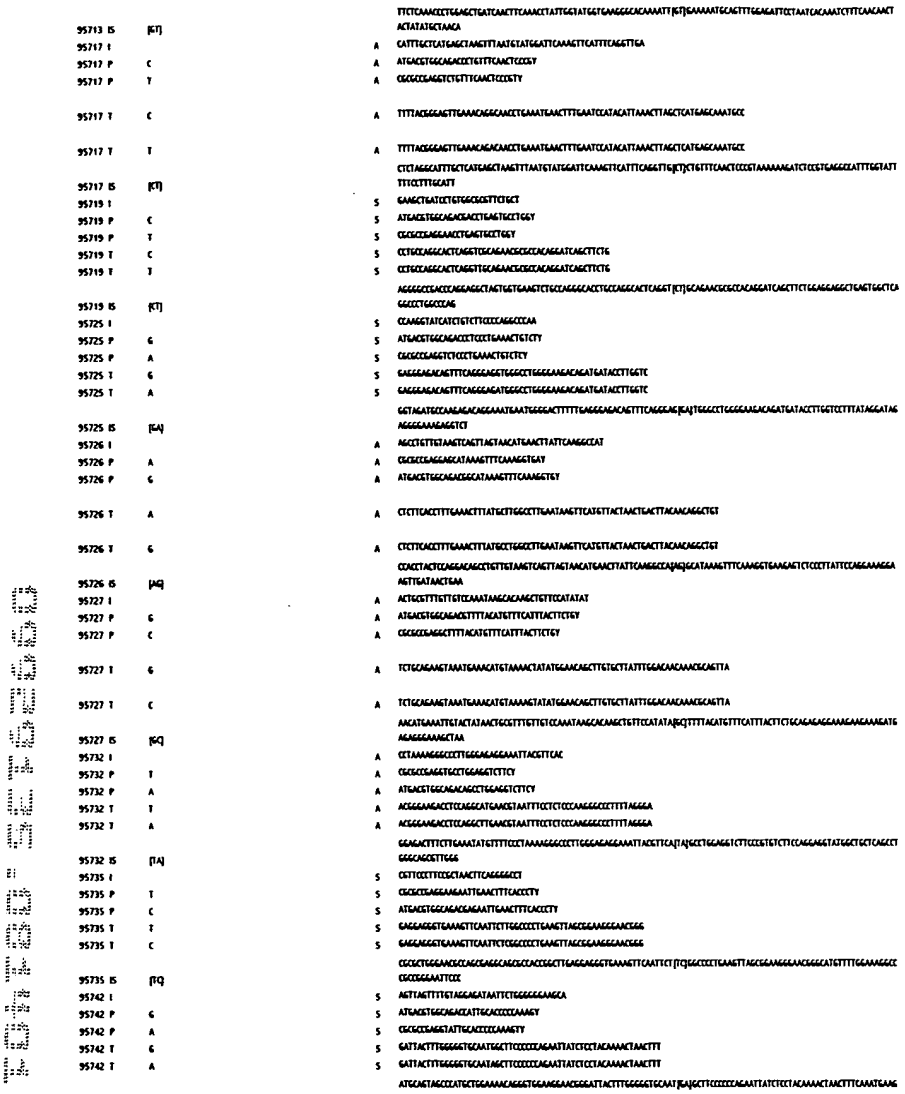
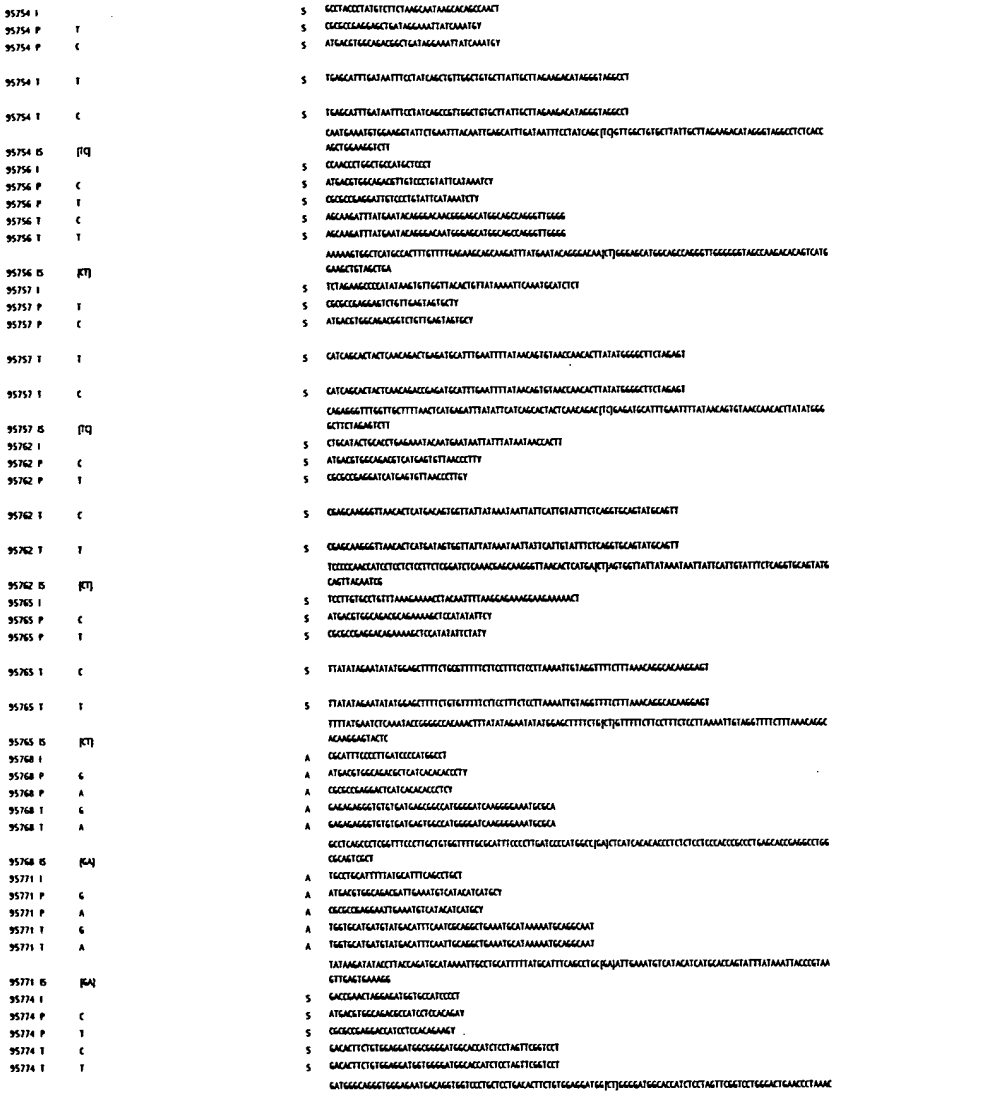
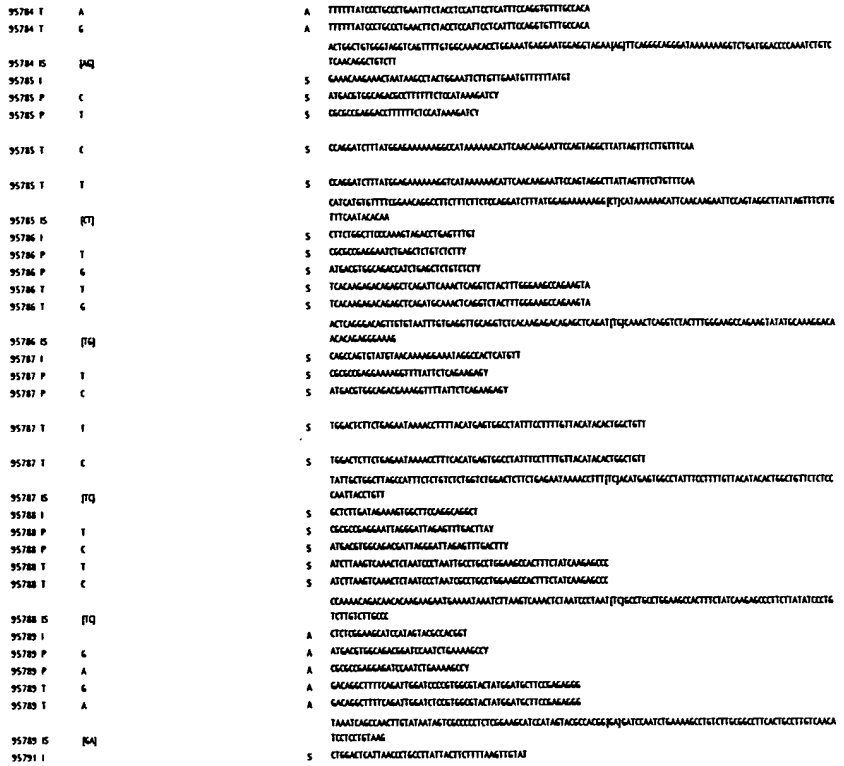
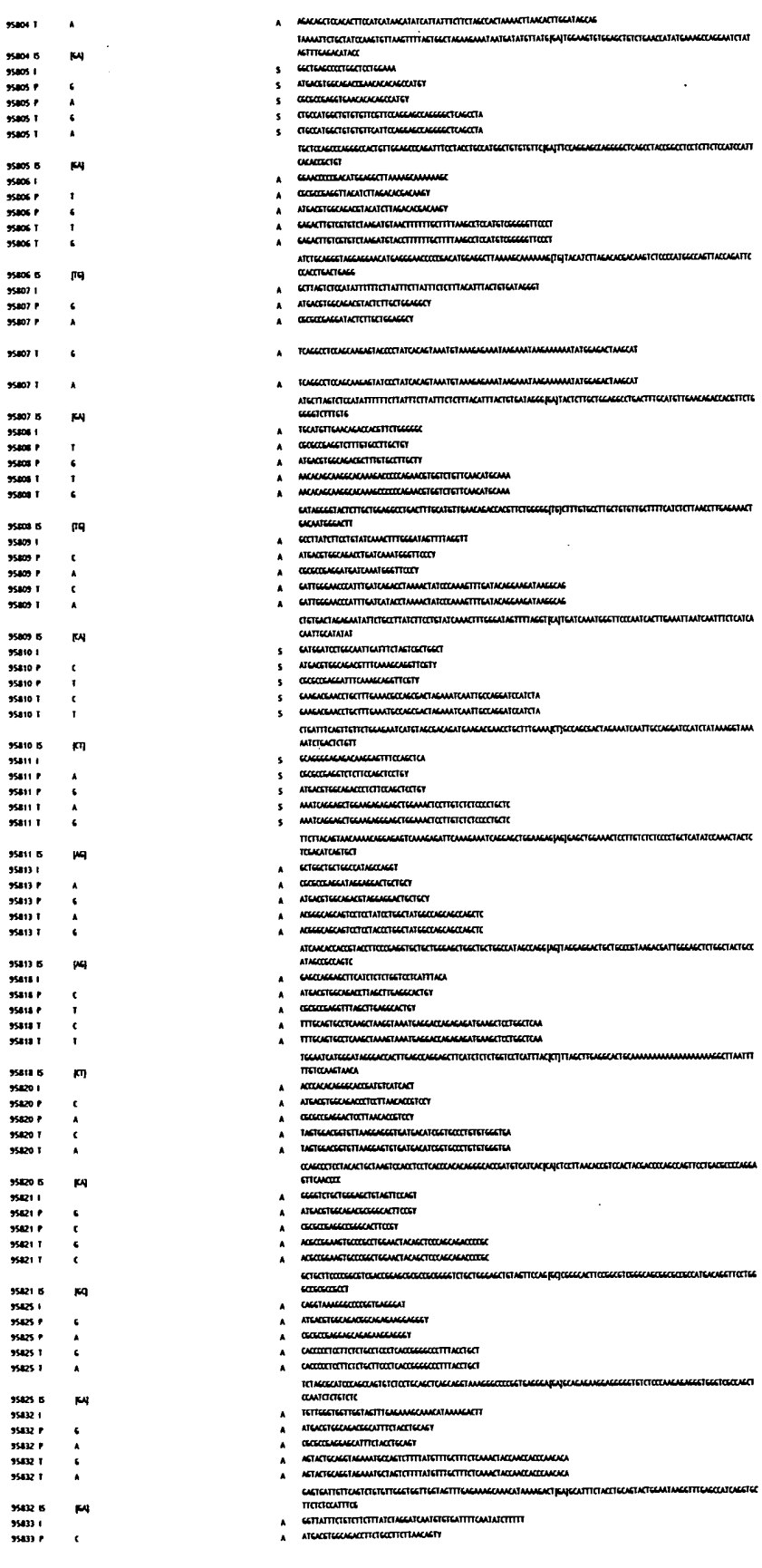


FIGURE 129C







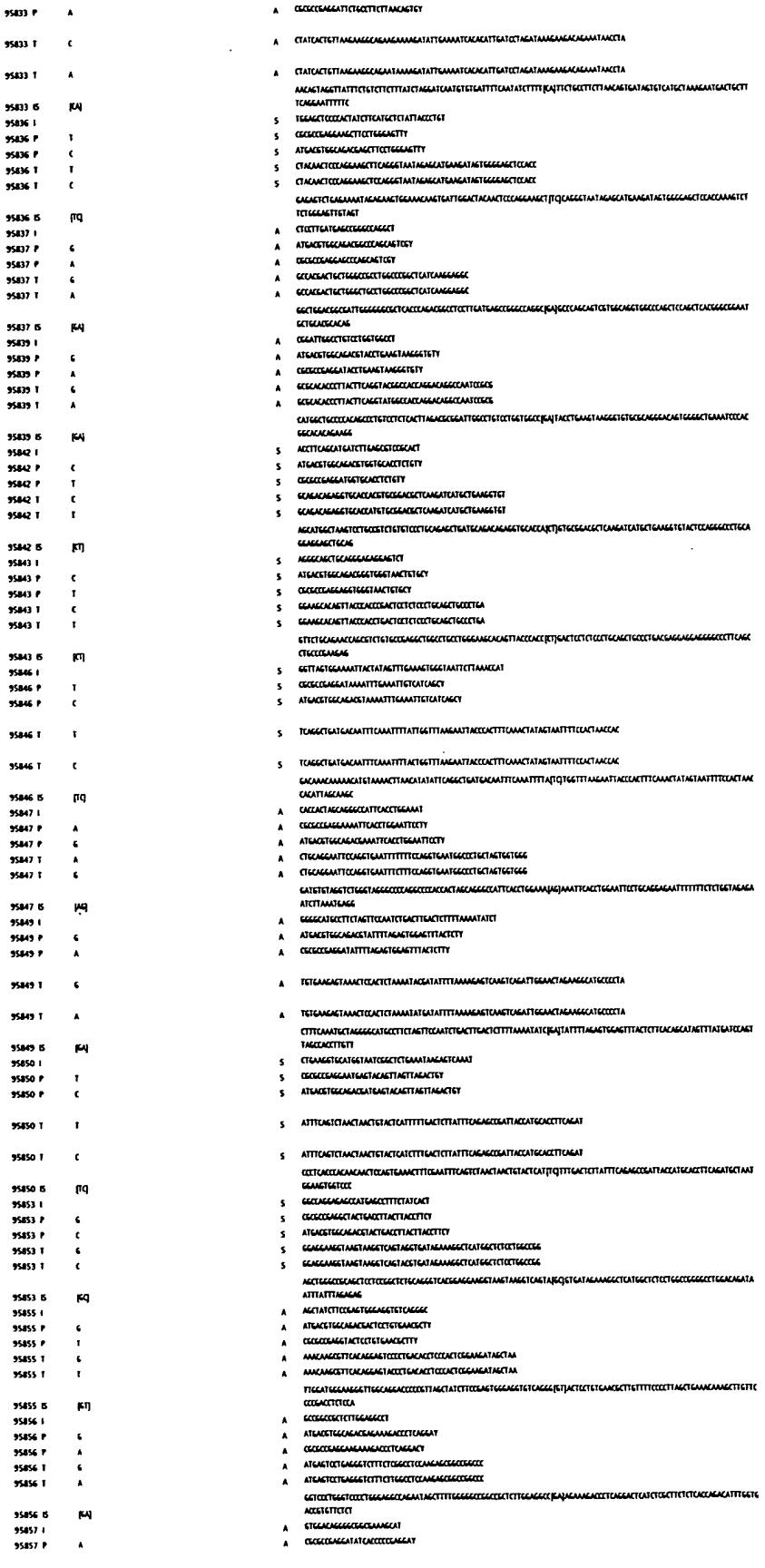


FIGURE 129C

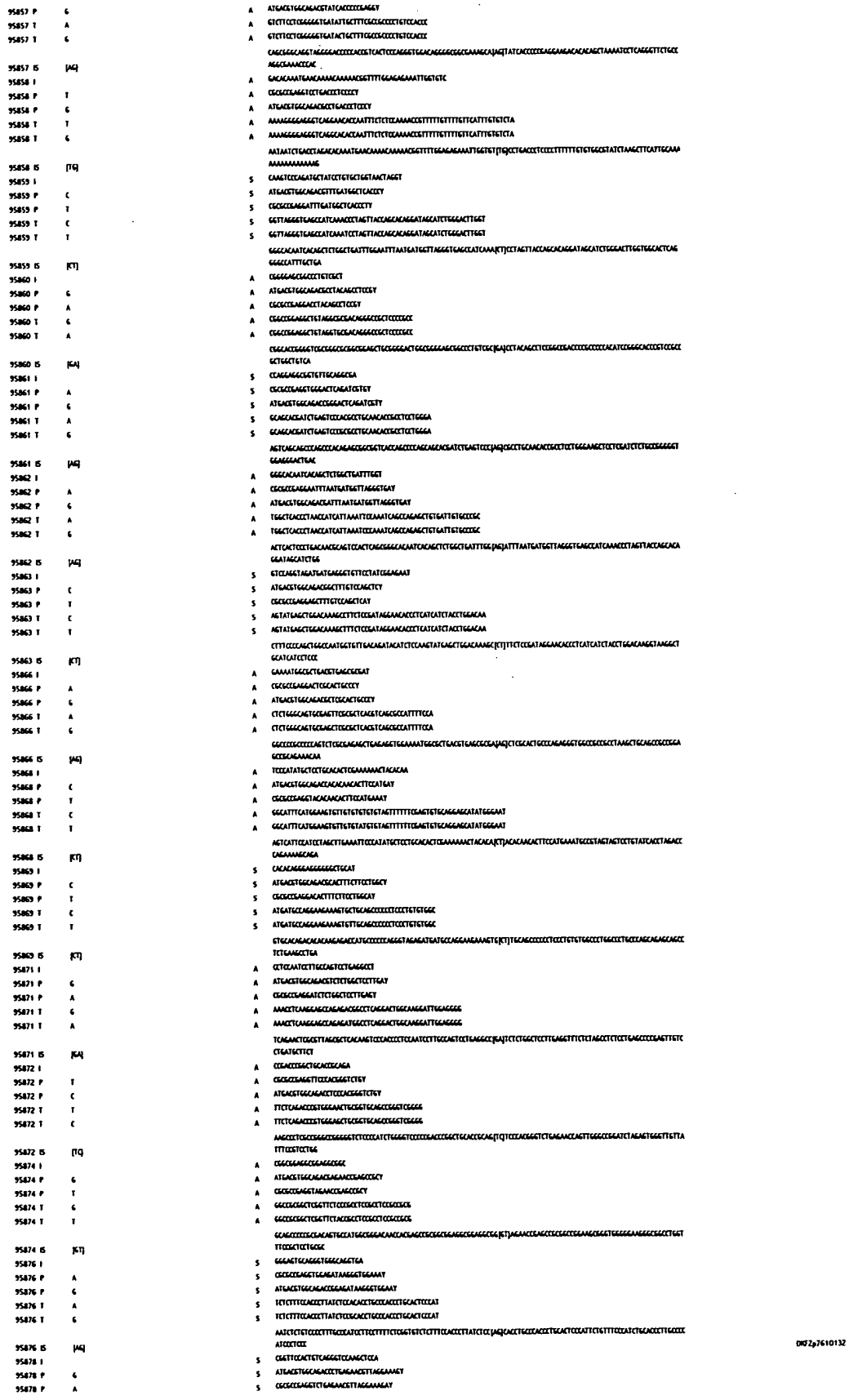
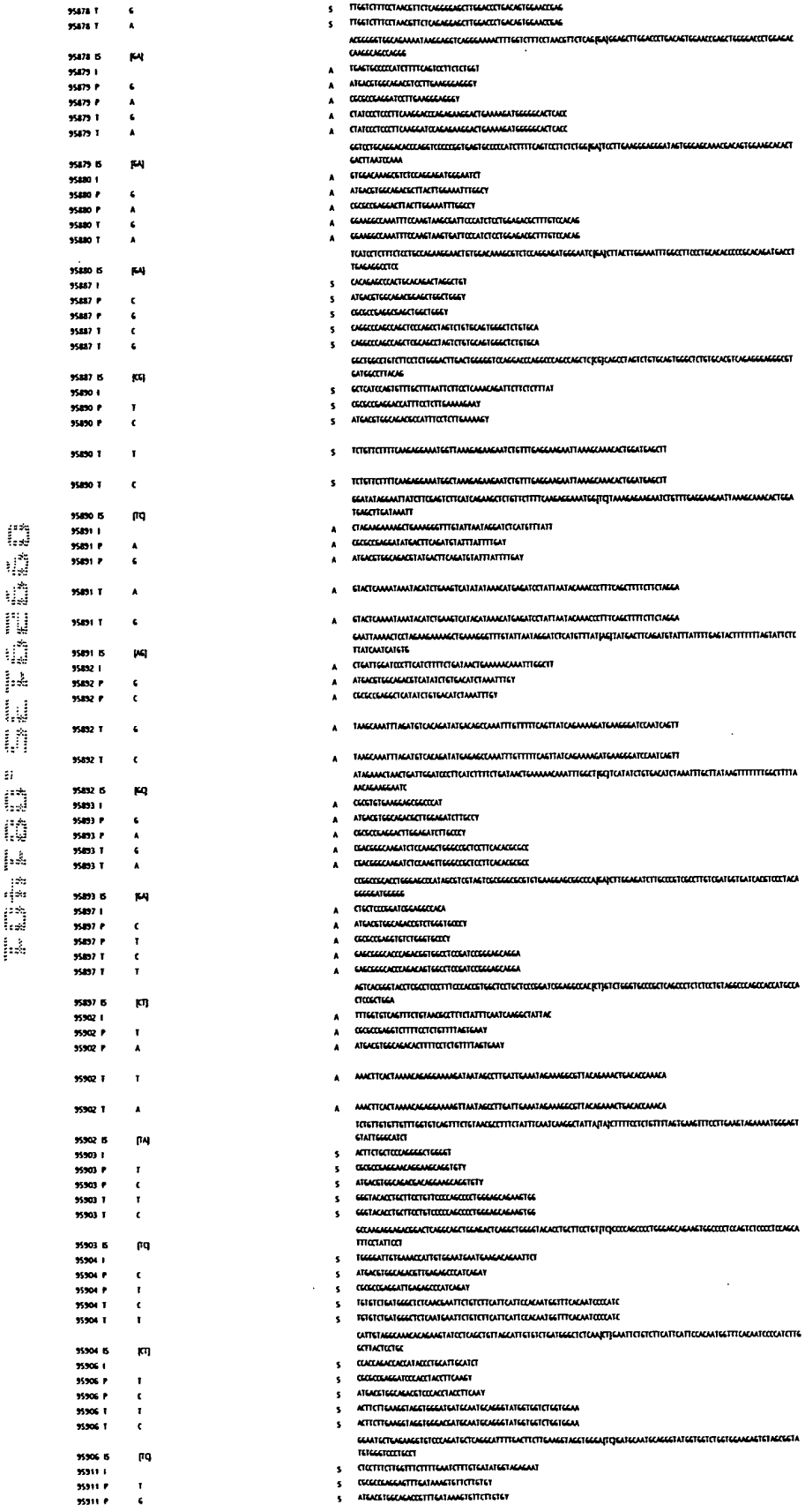
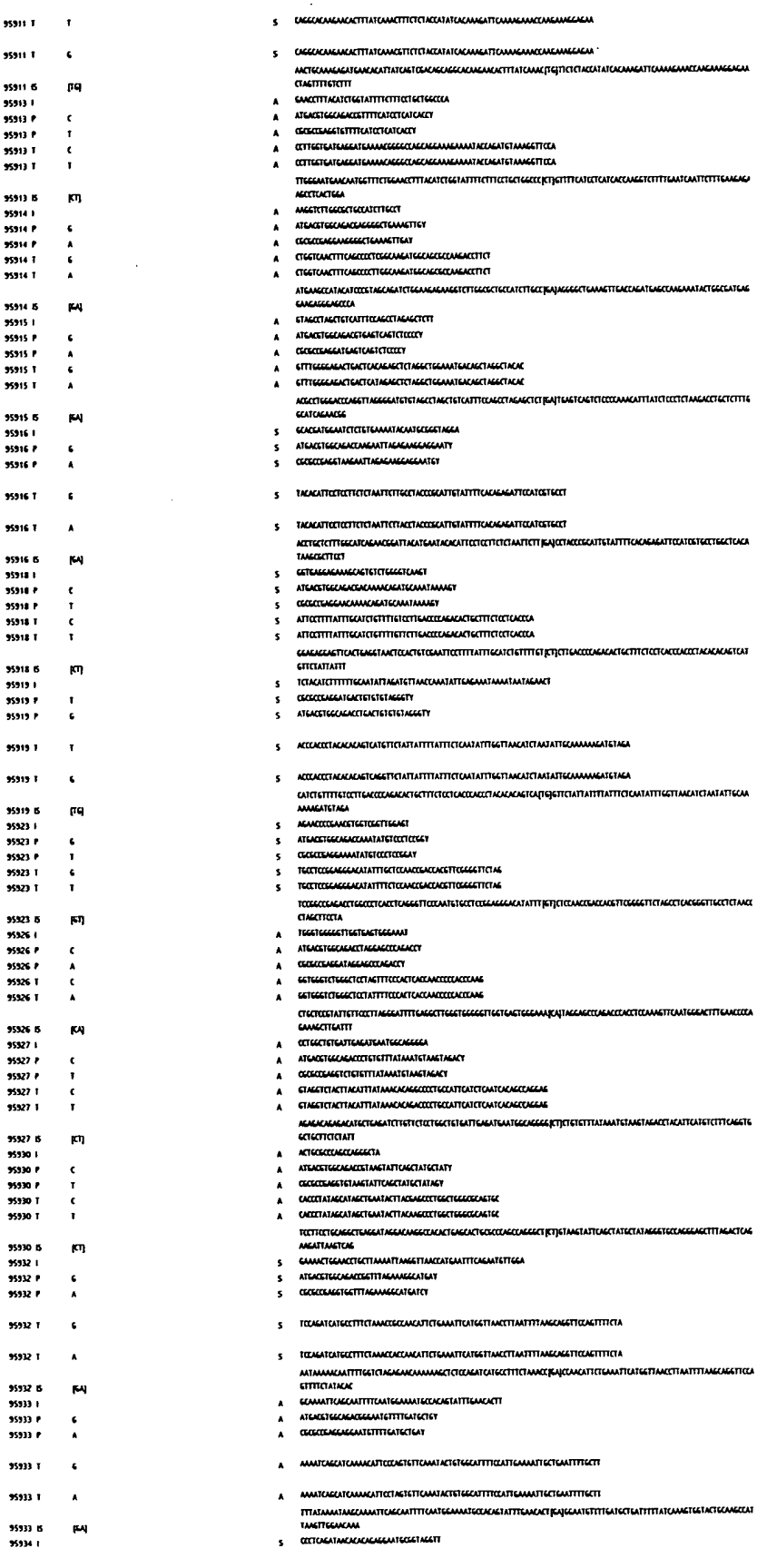


FIGURE 129C





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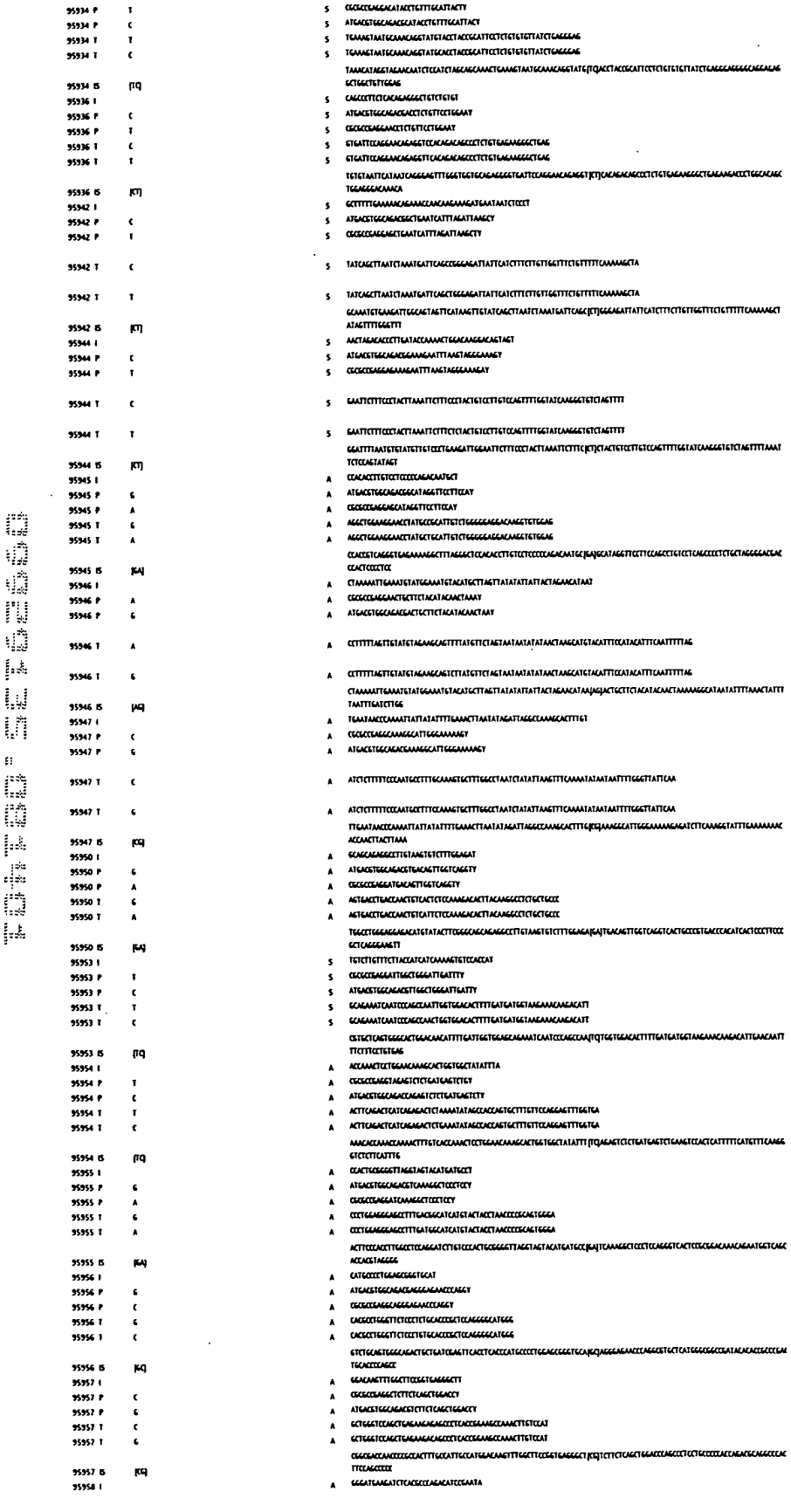
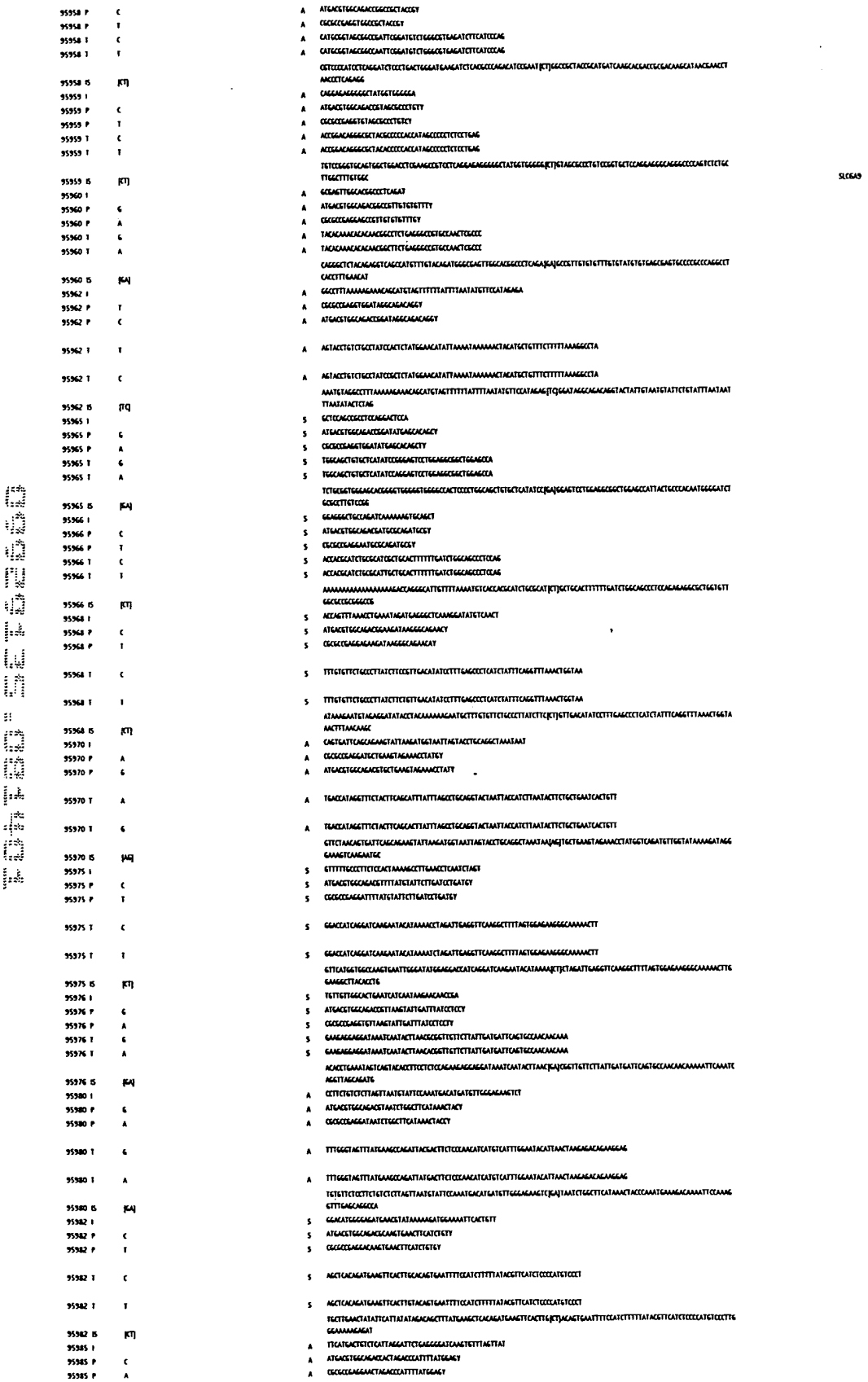
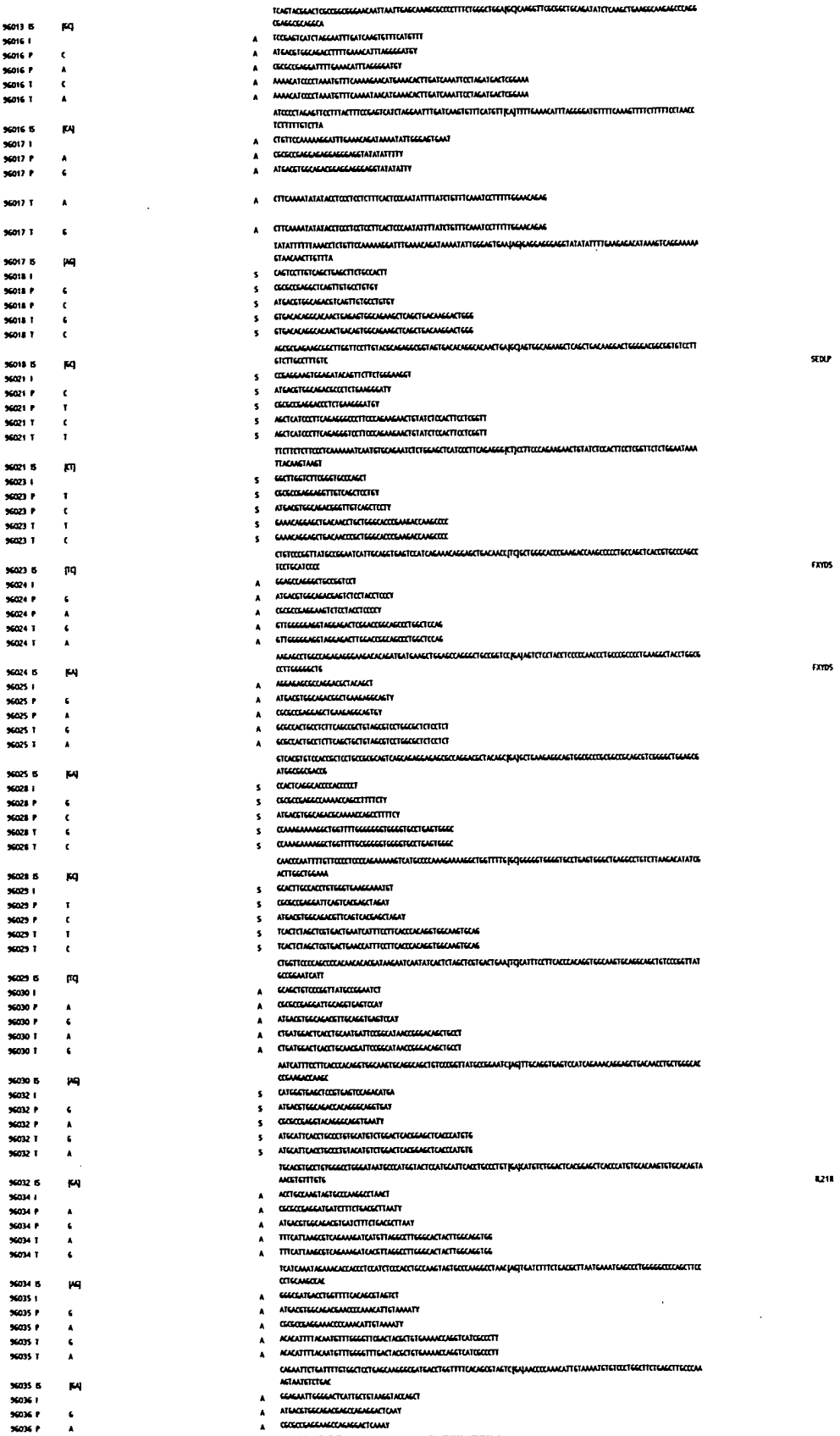
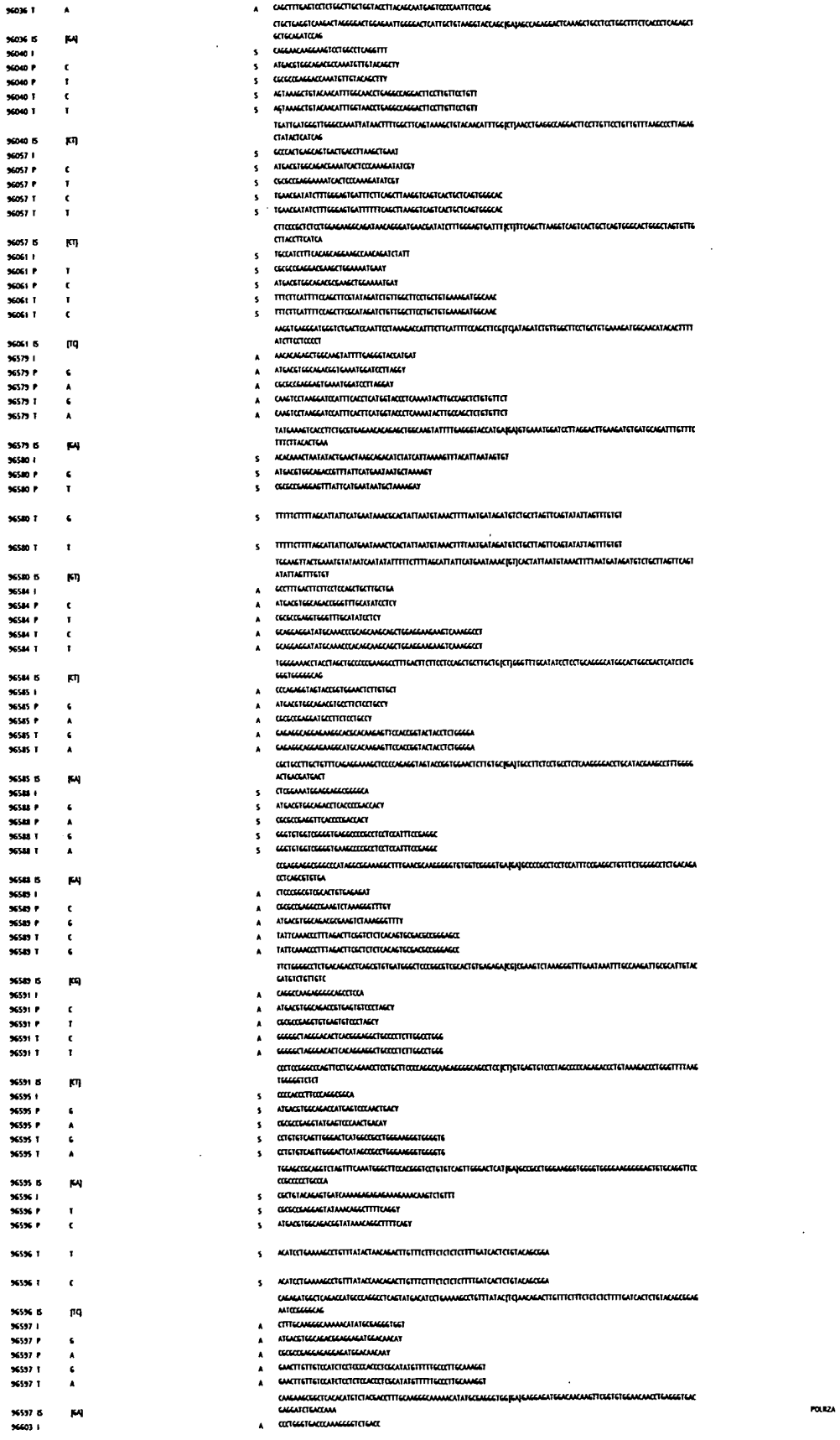


FIGURE 129C









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FIGURE 129C

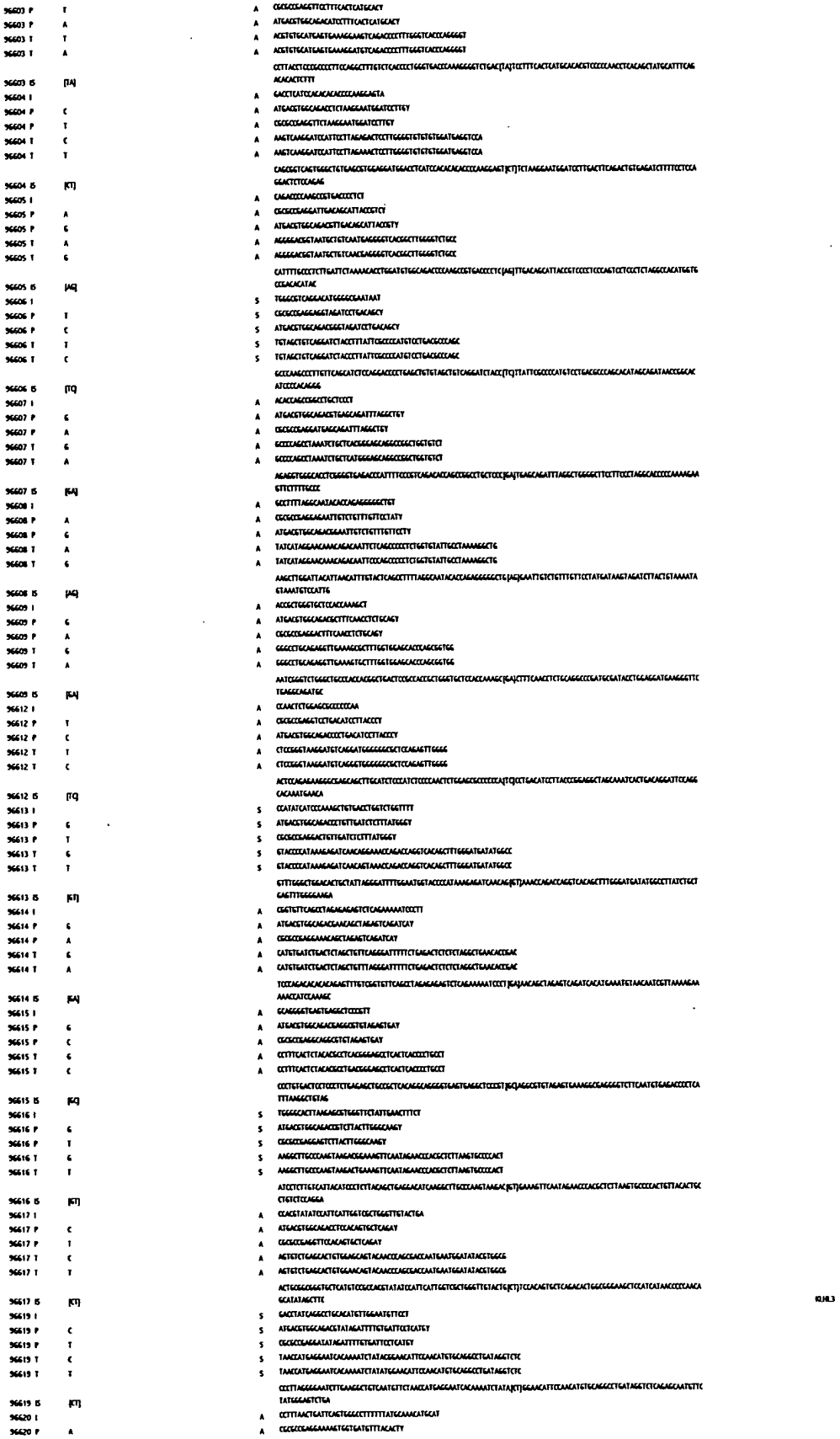
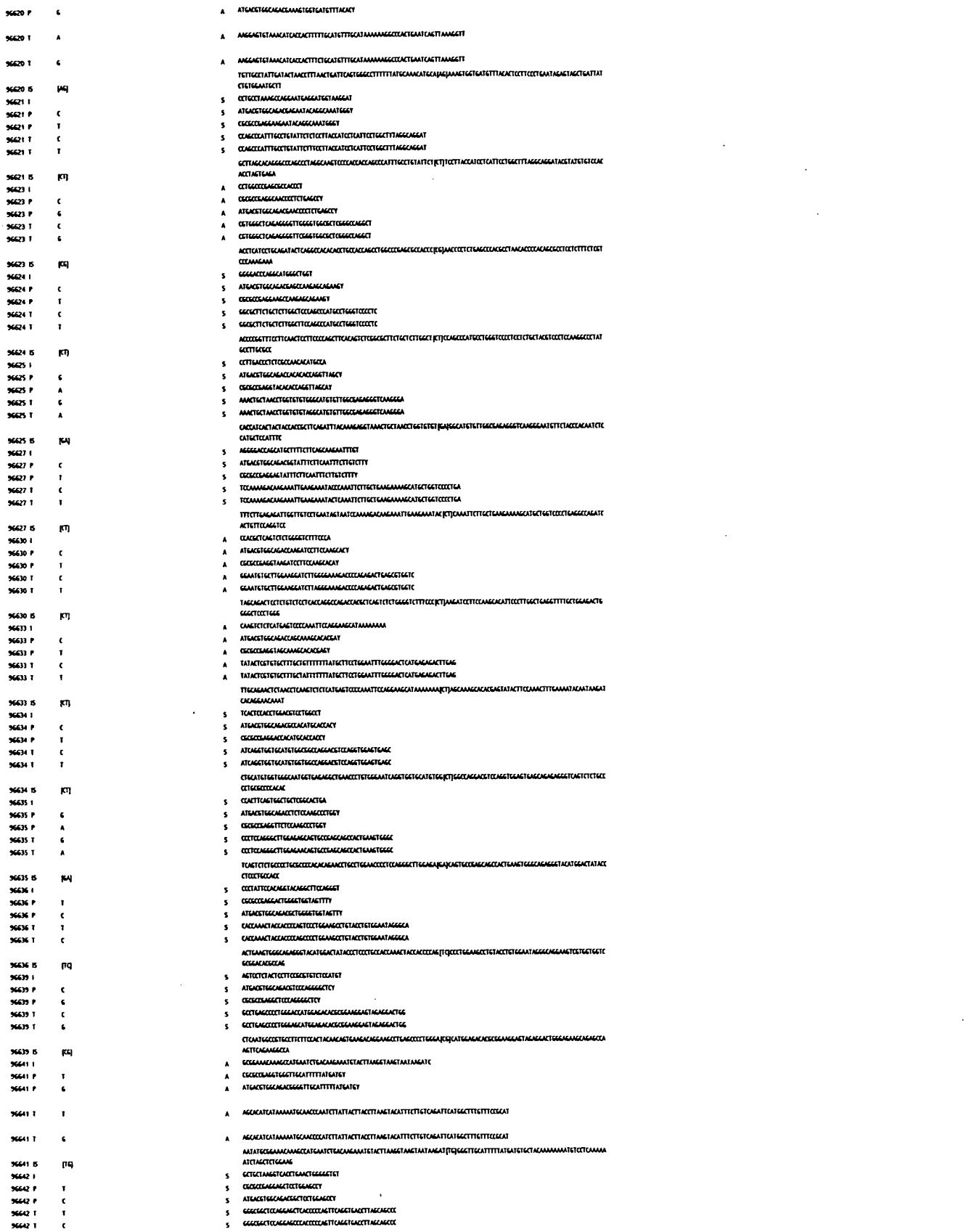


FIGURE 129C



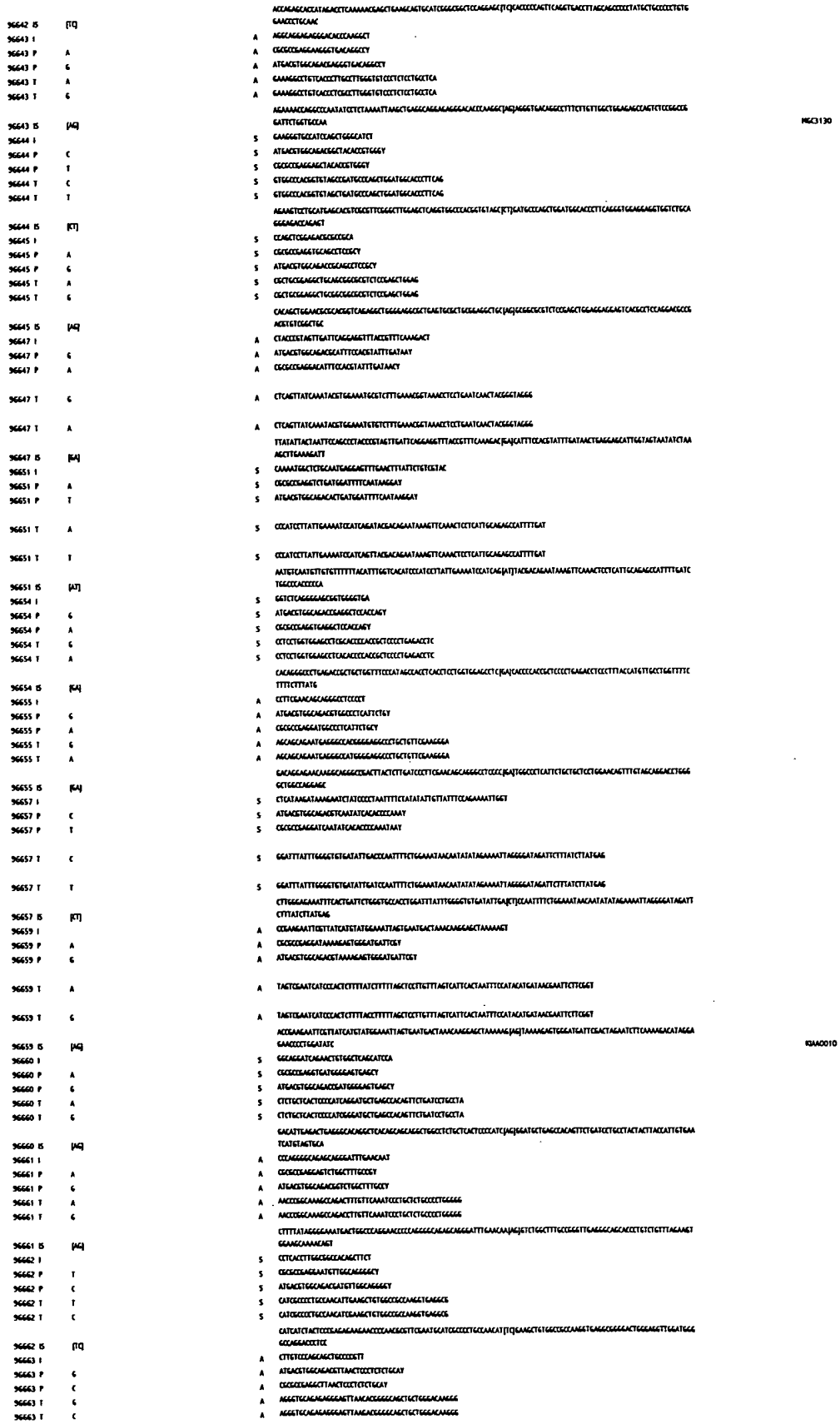


FIGURE 129C

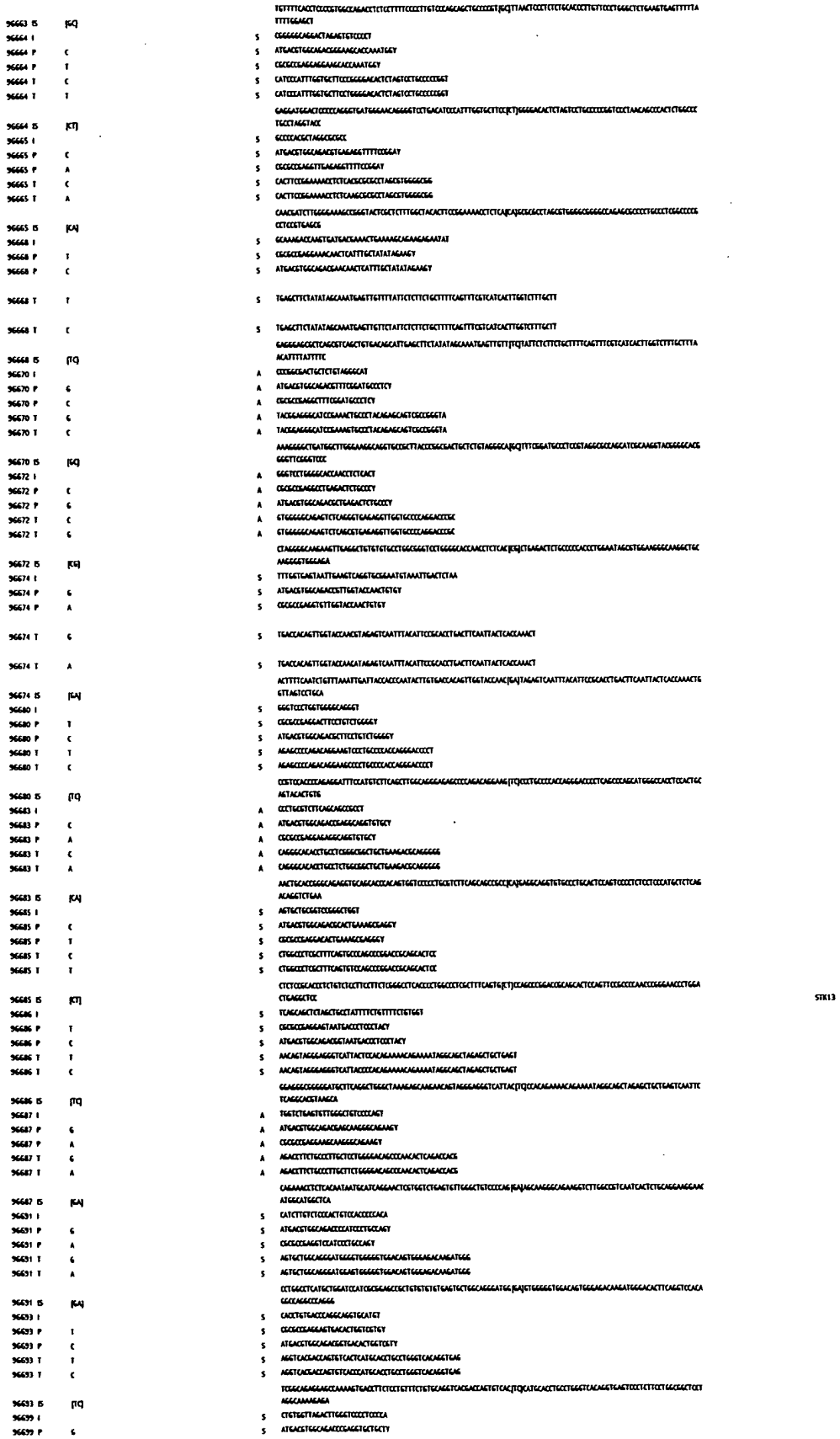
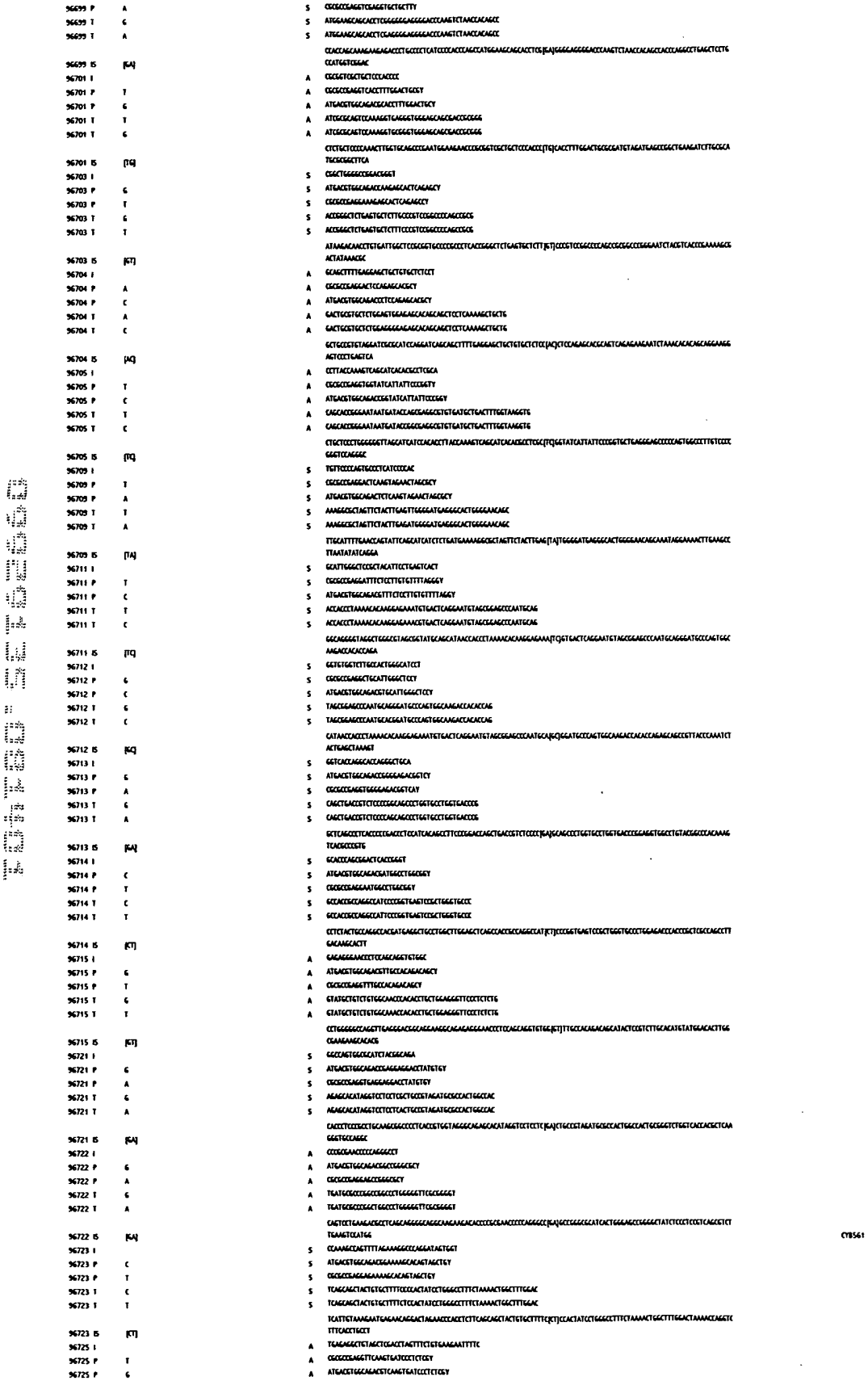


FIGURE 129C



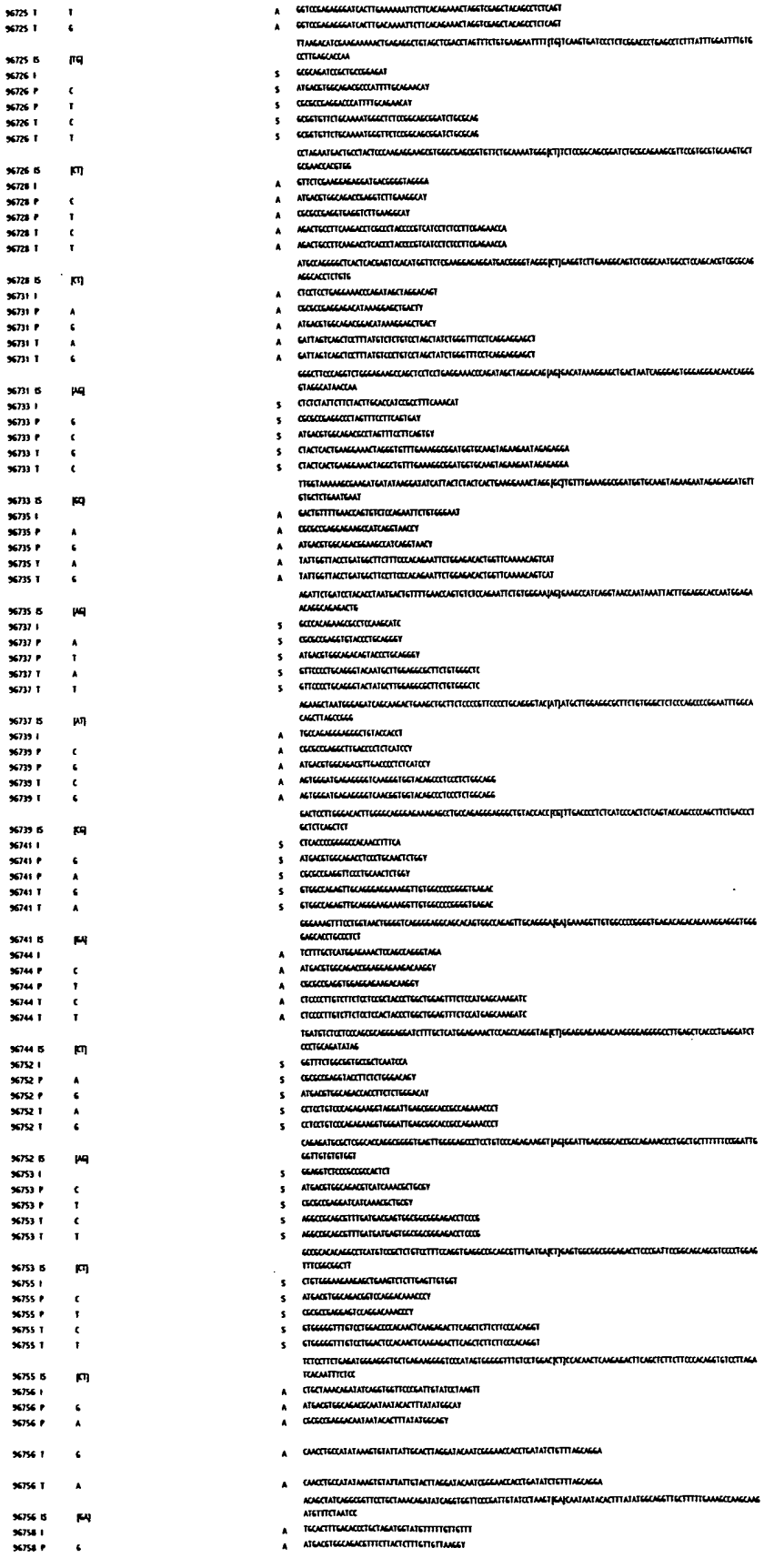
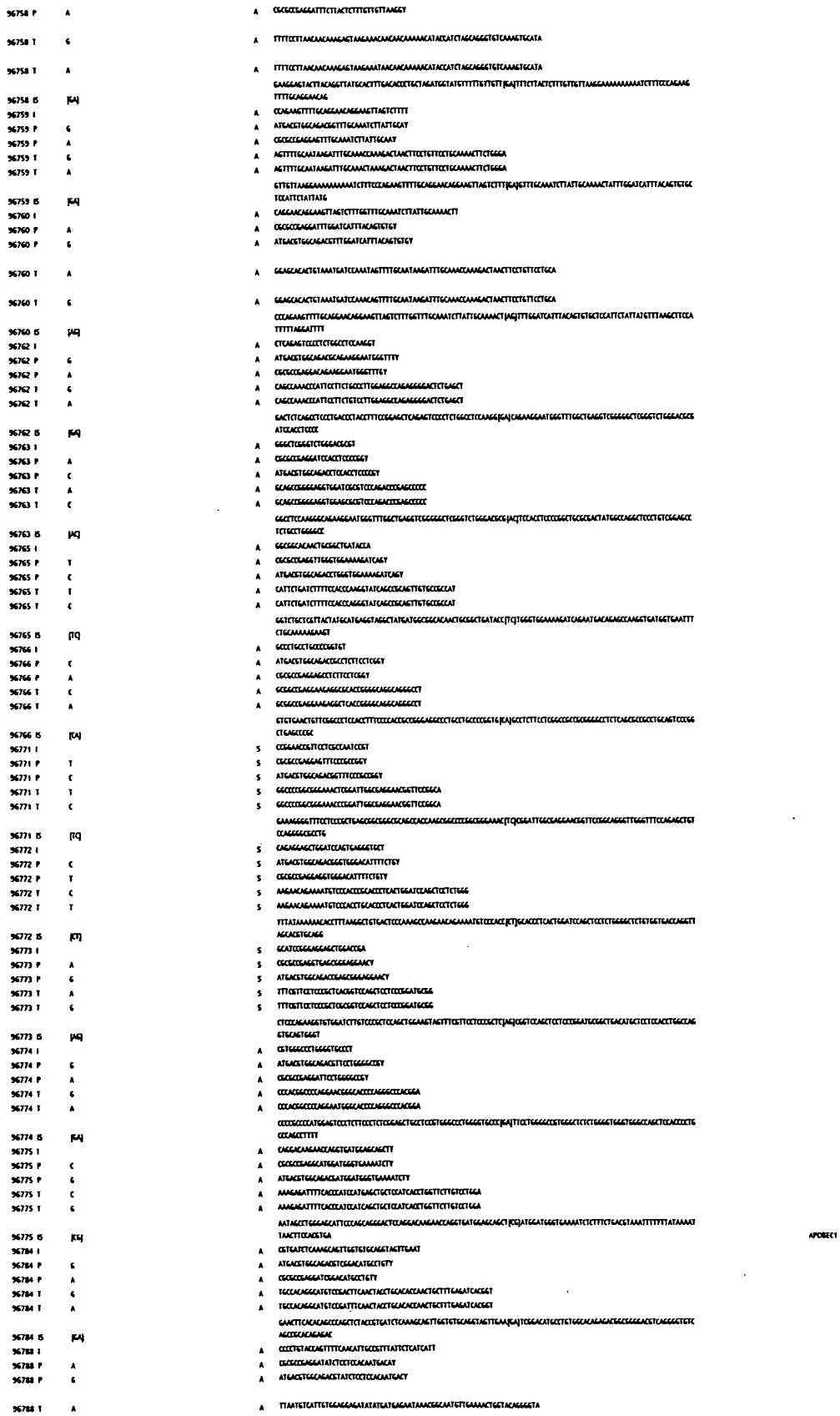
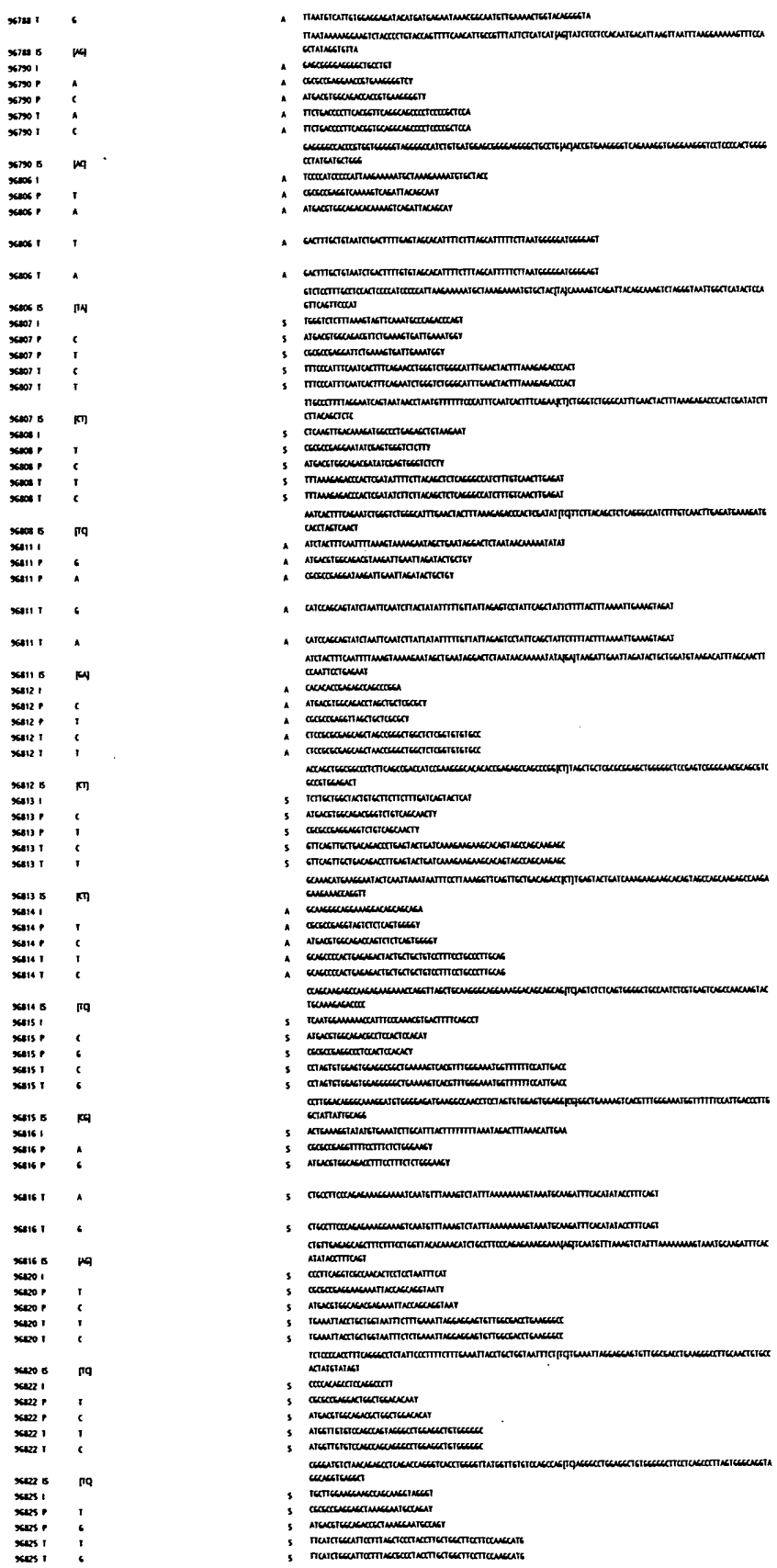
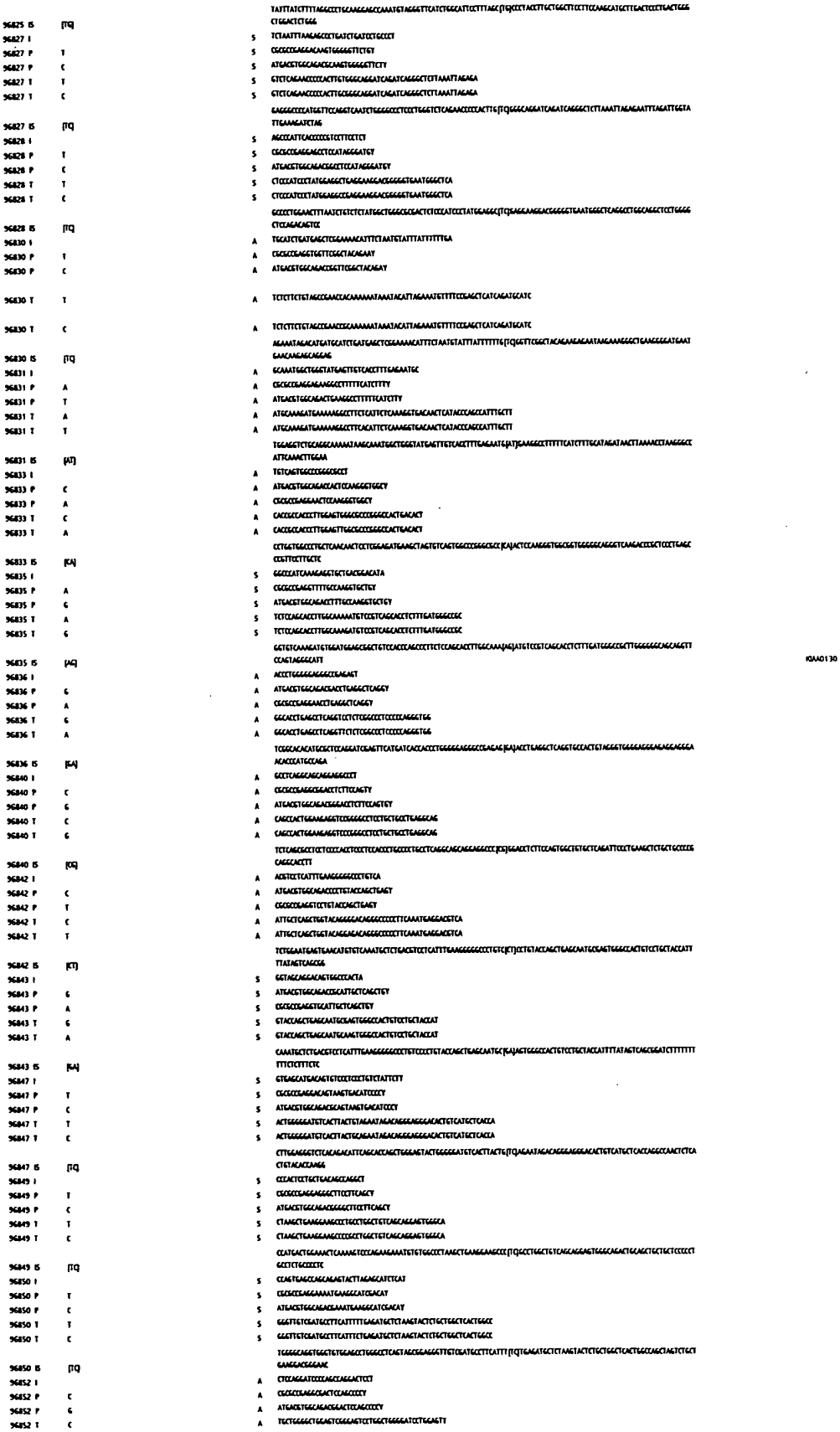


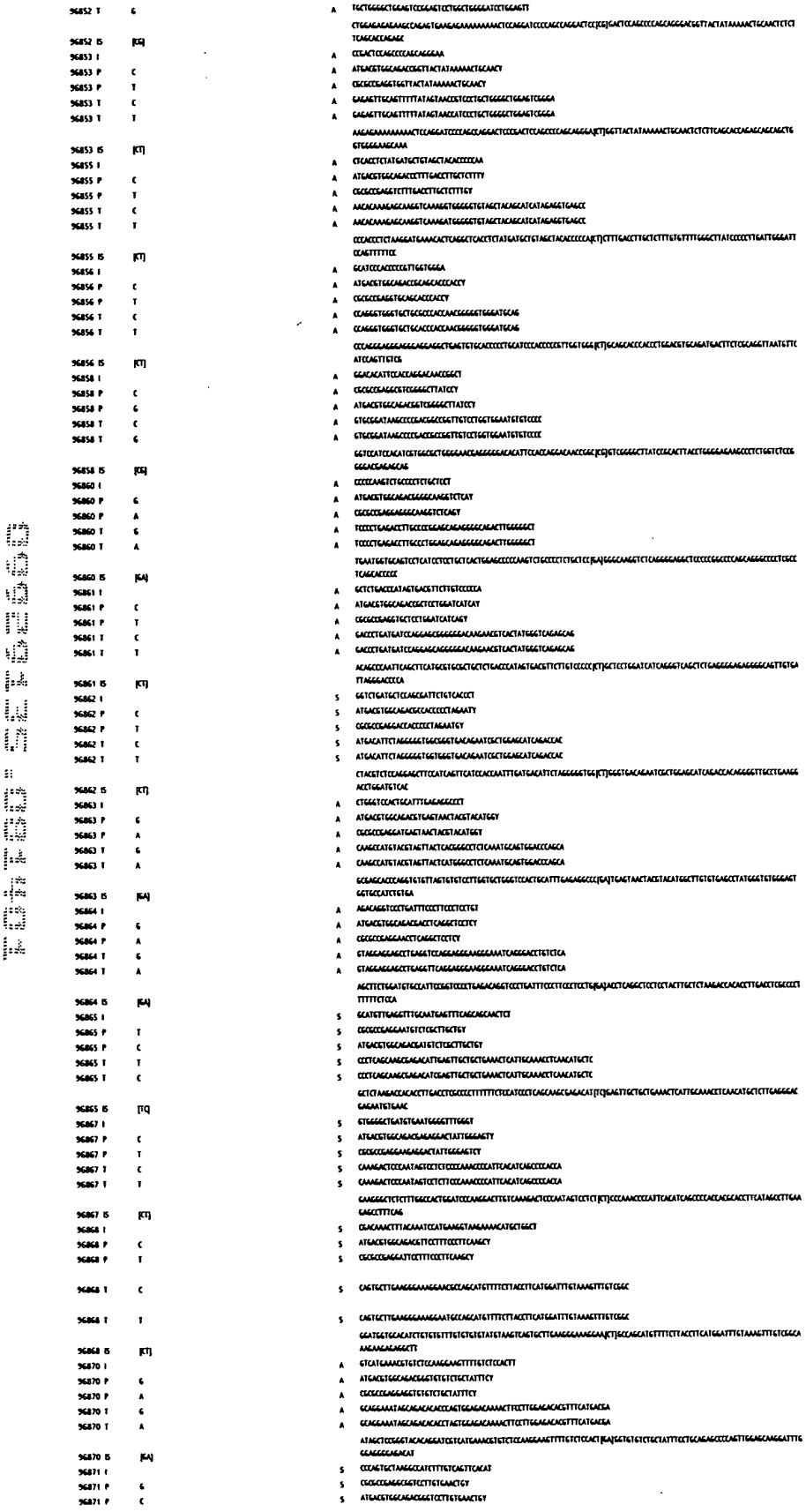
FIGURE 129C







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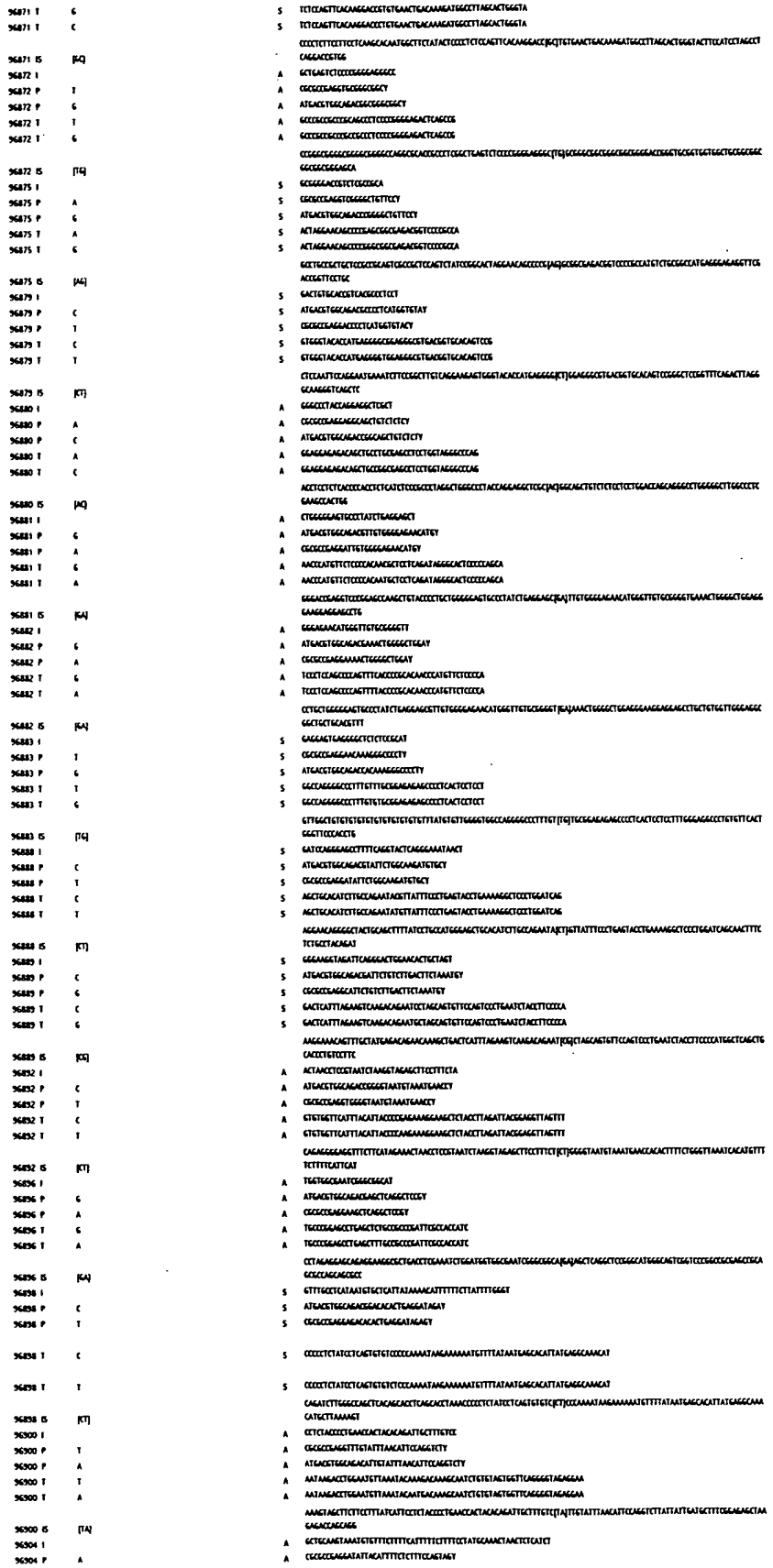
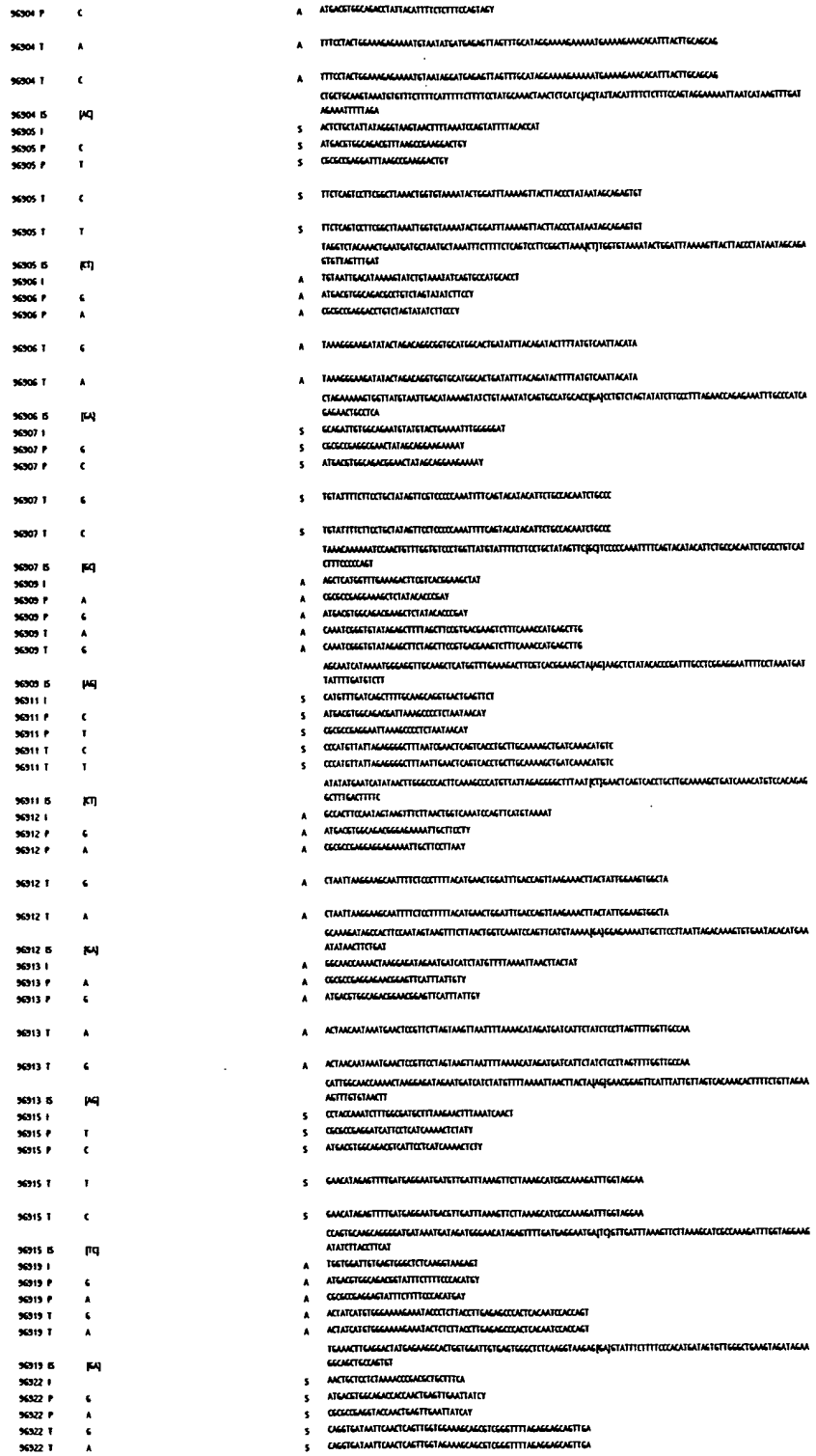


FIGURE 129C



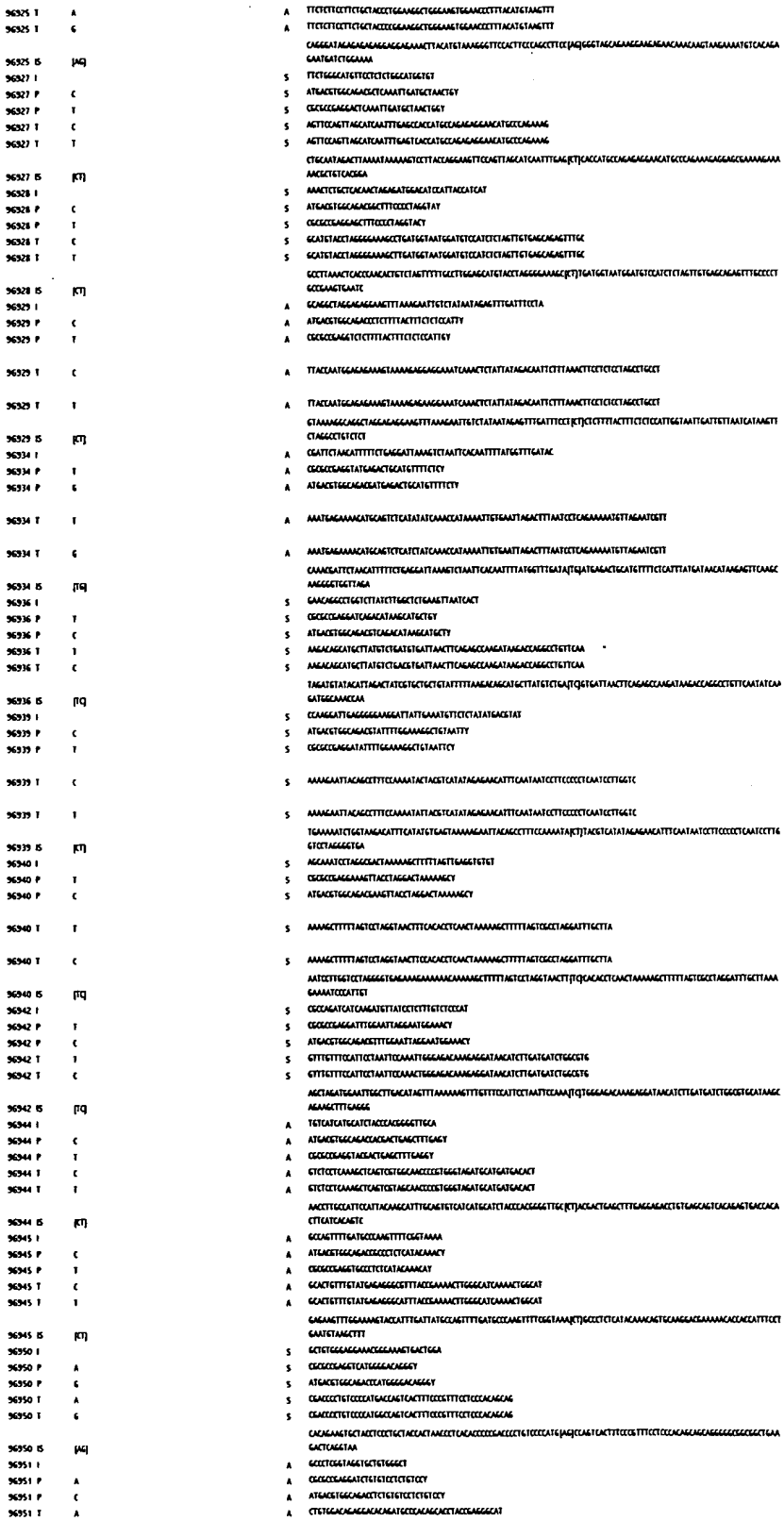




FIGURE 129C

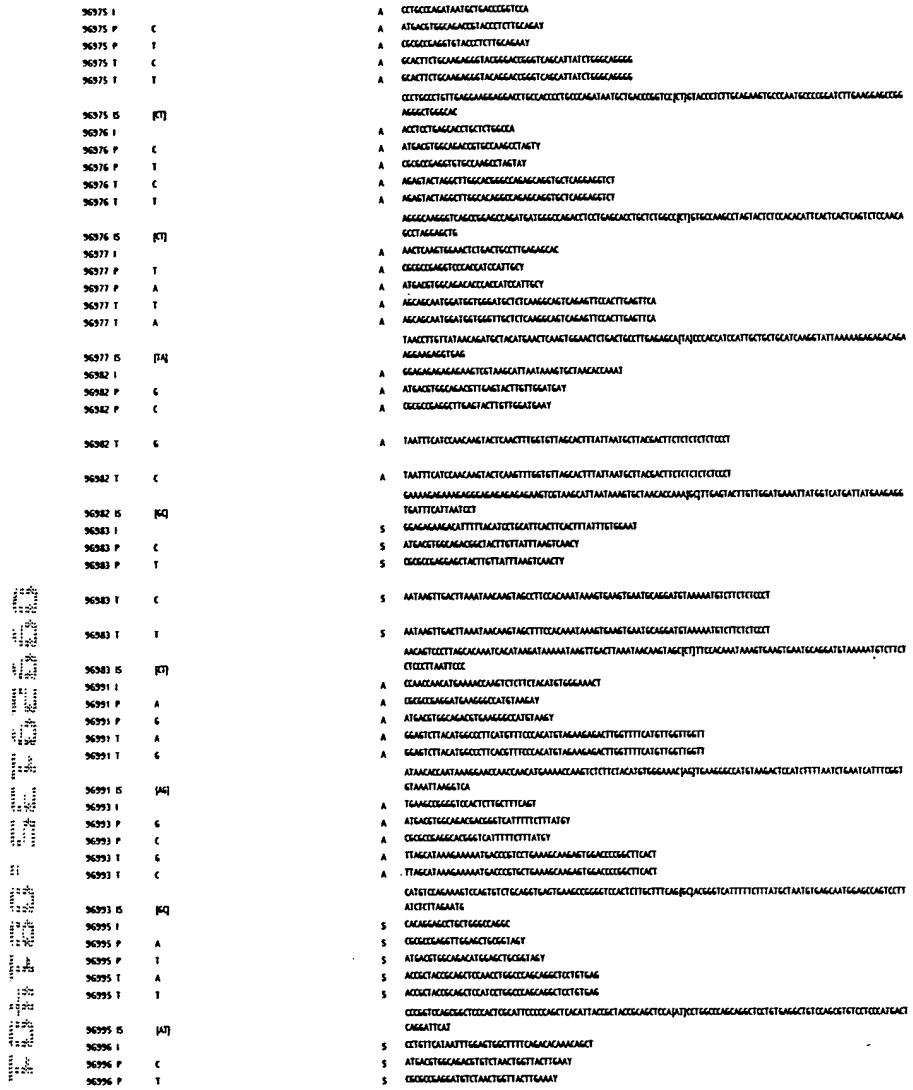


FIGURE 129C

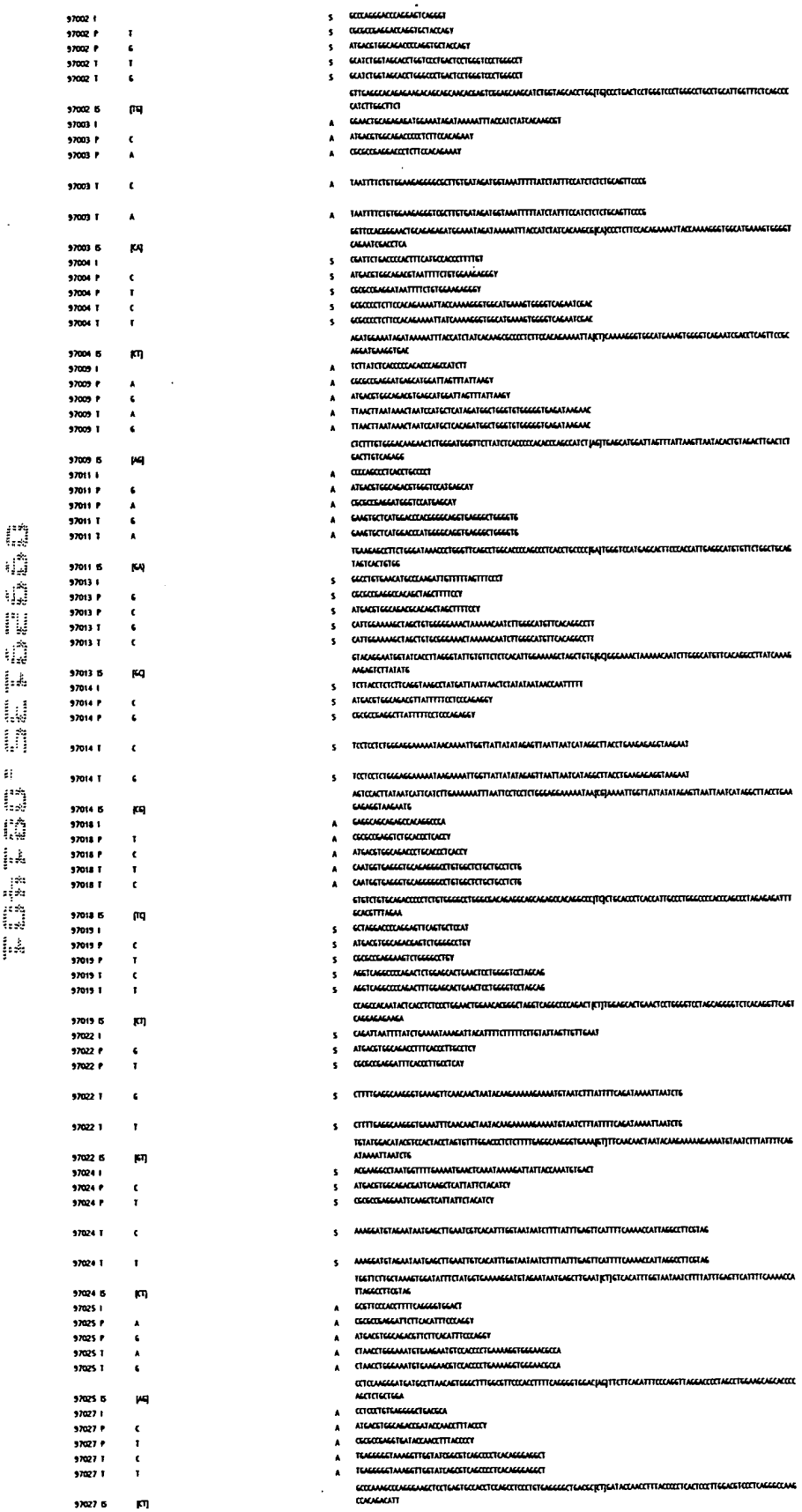
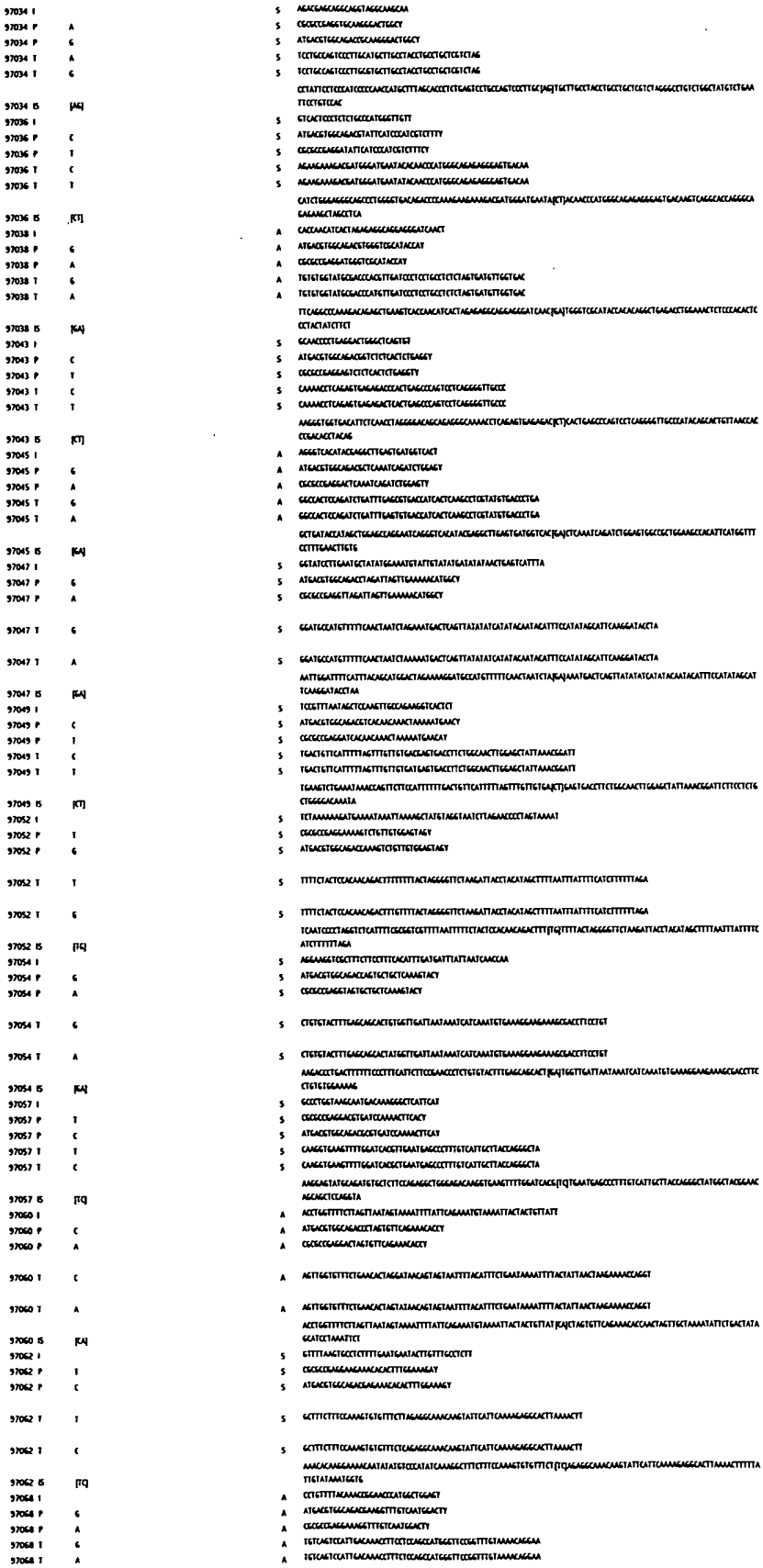
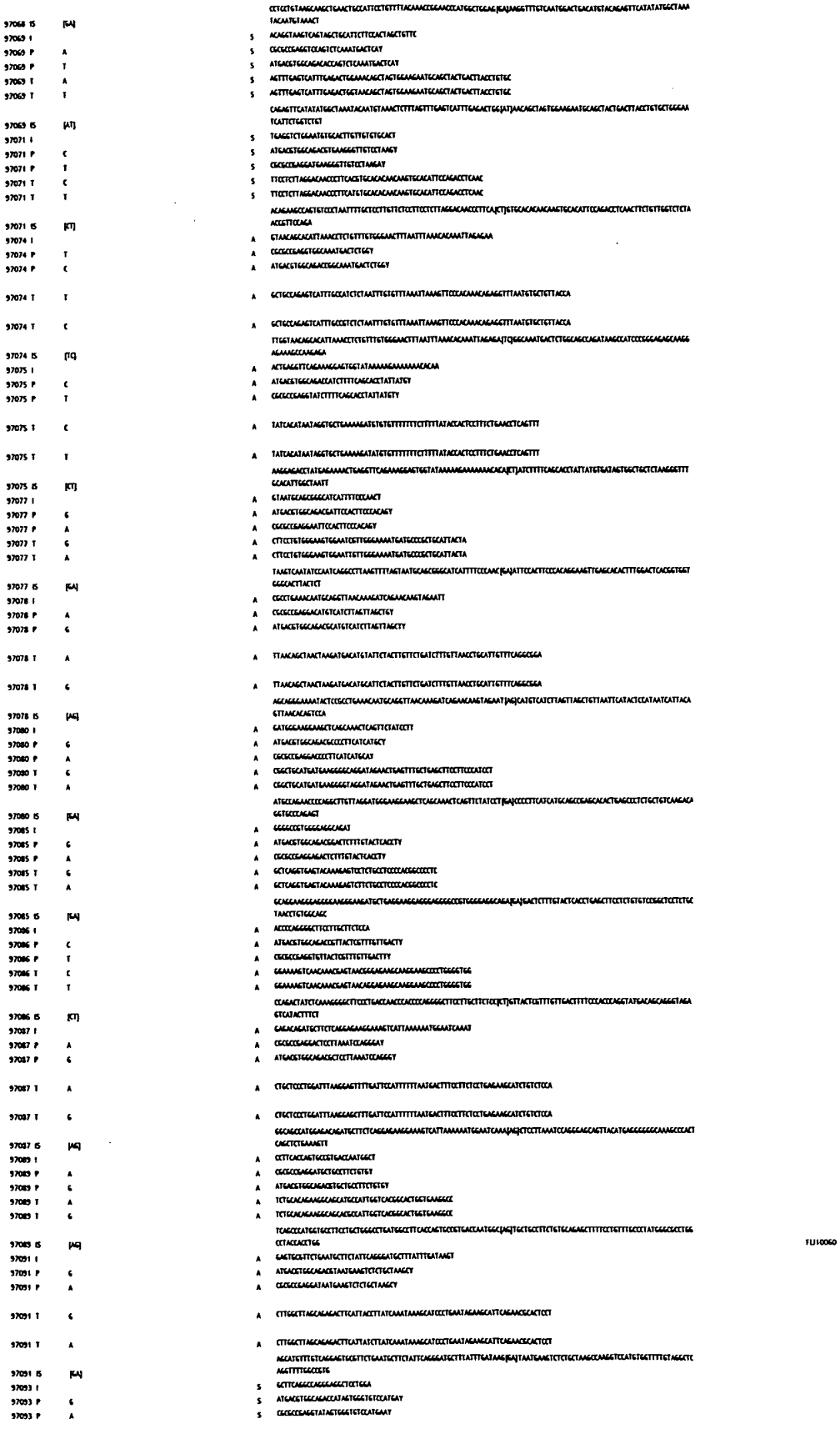
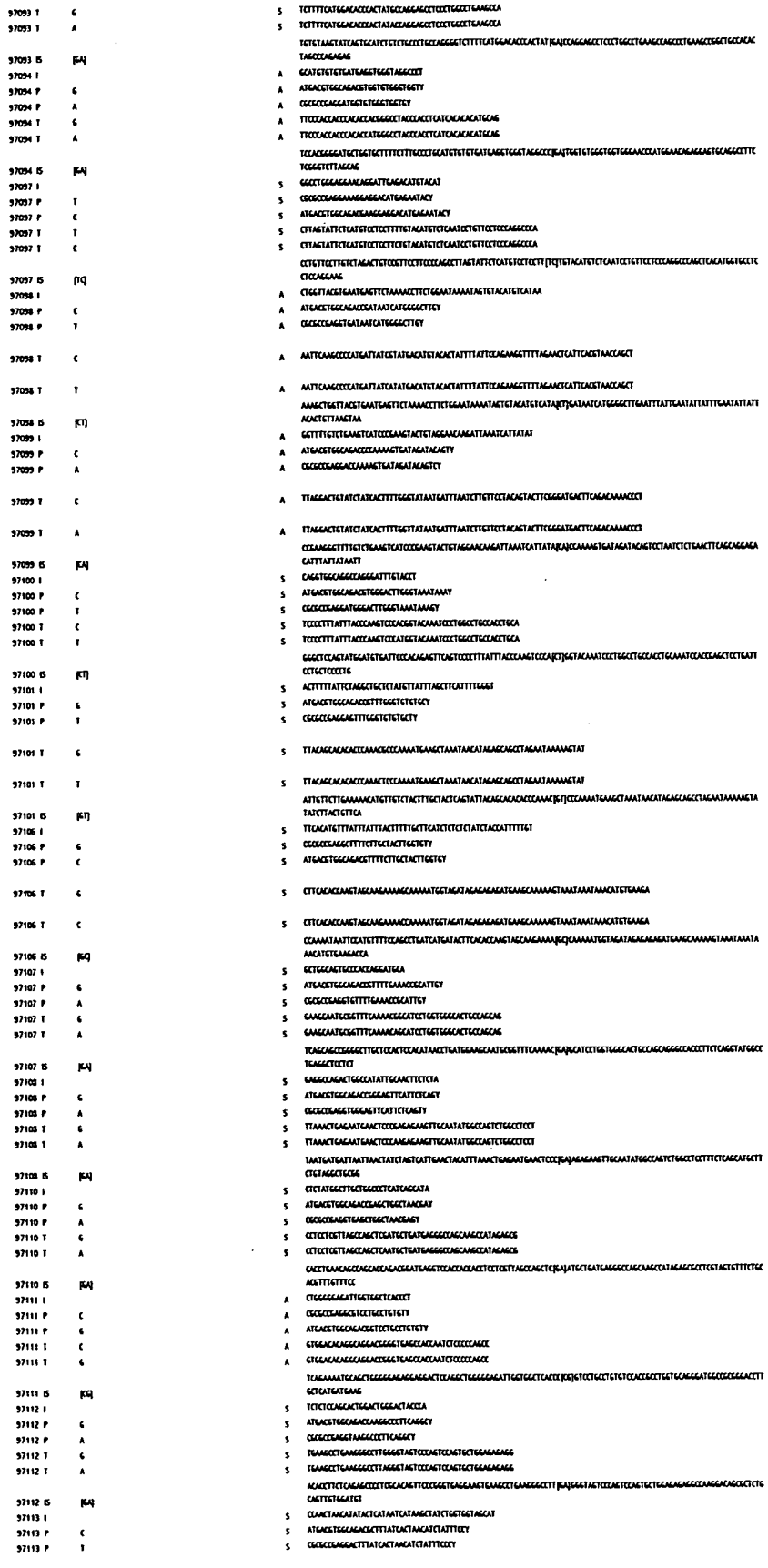


FIGURE 129C









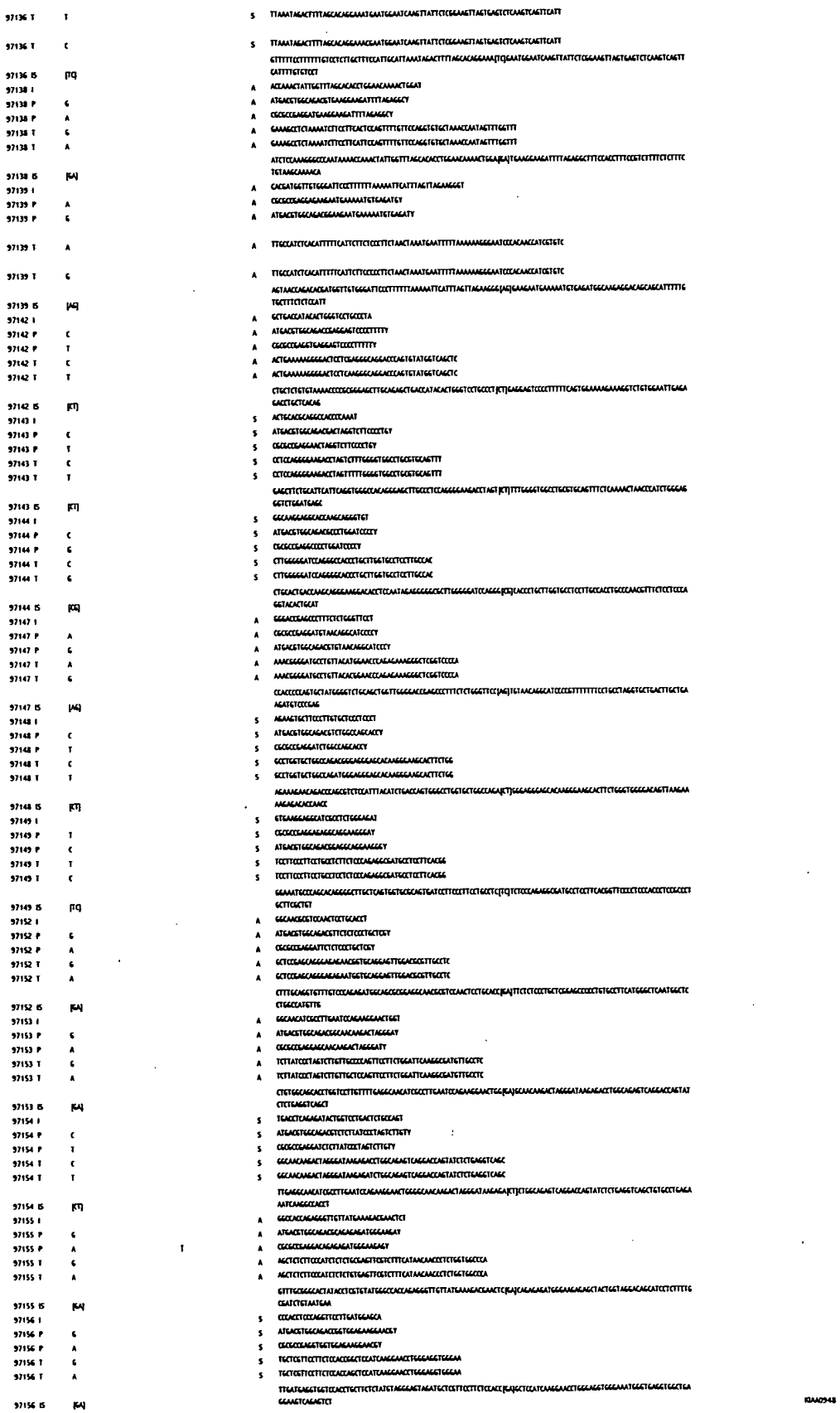


FIGURE 129C

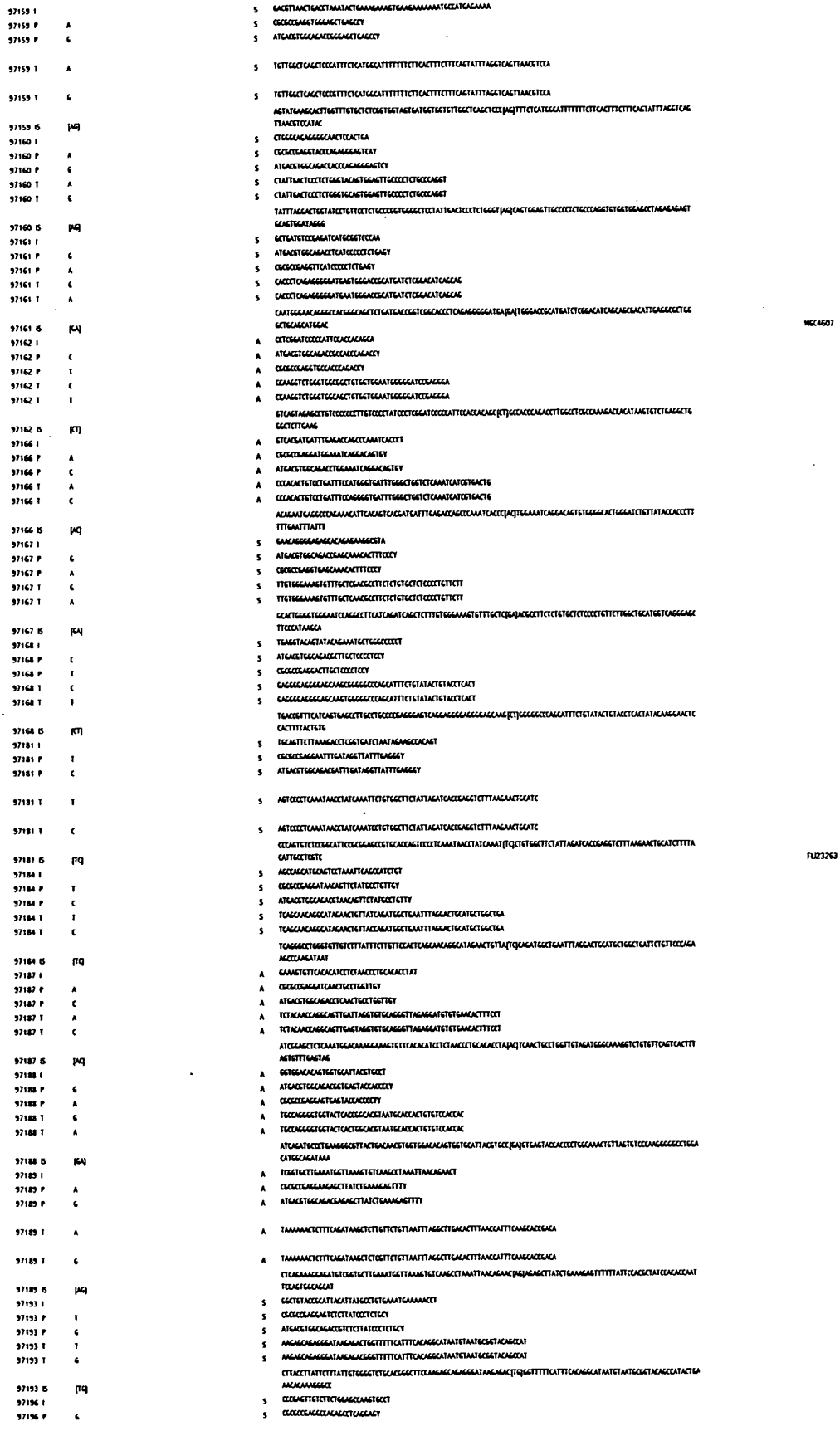
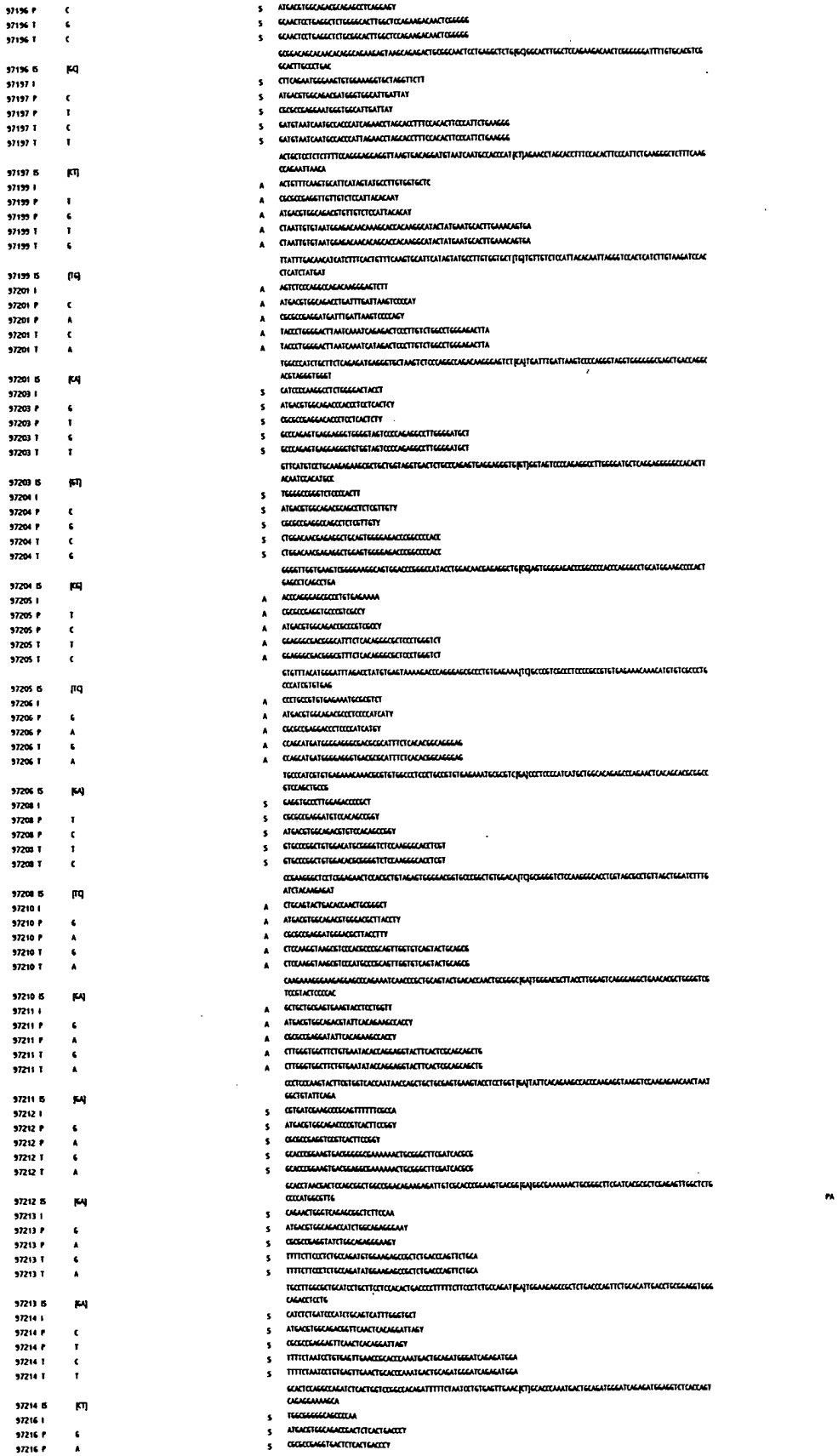
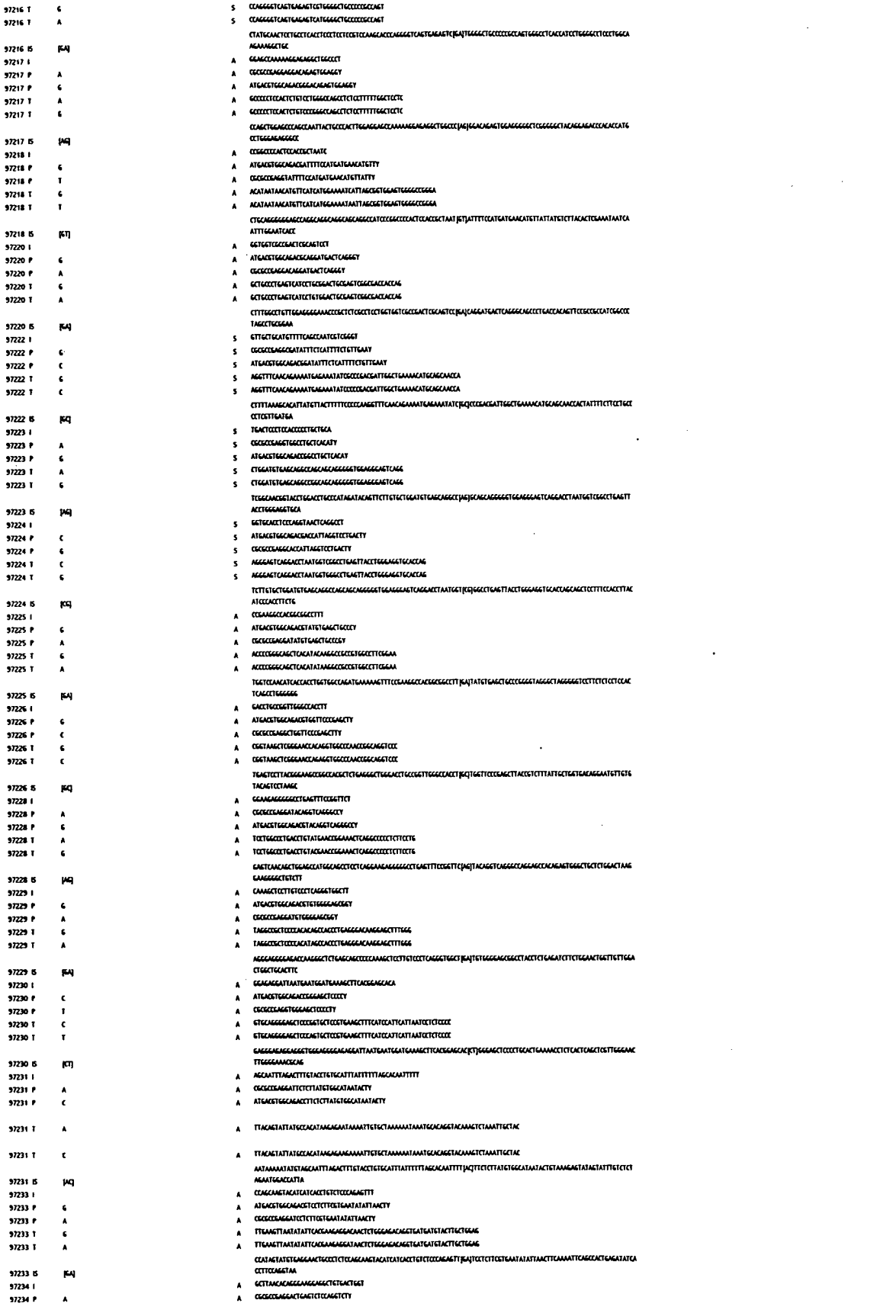


FIGURE 129C





Under 37 CFR 1.84 (a) (1) the drawings submitted are not suitable for reproduction.

FIGURE 129C

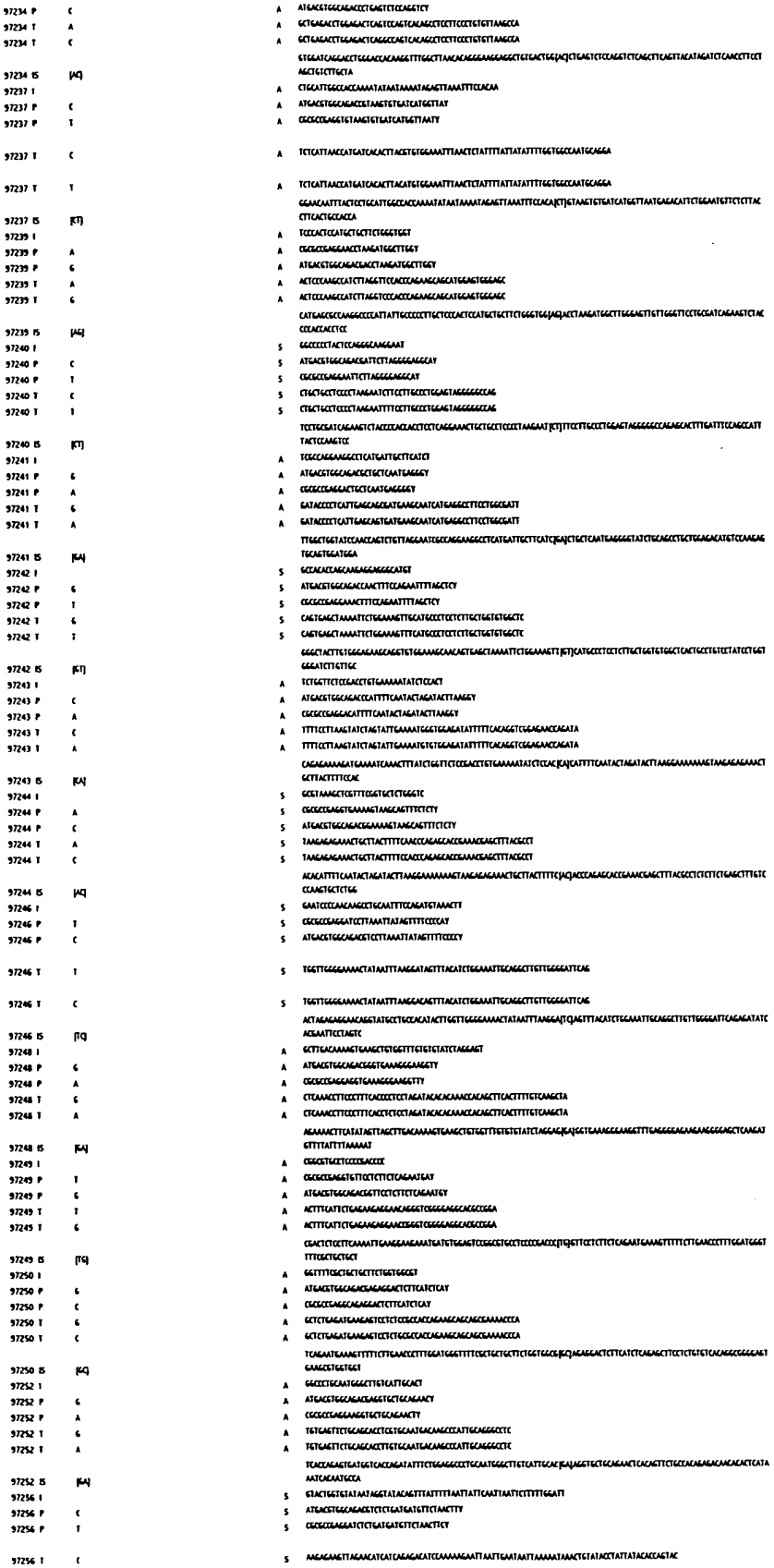


FIGURE 129C

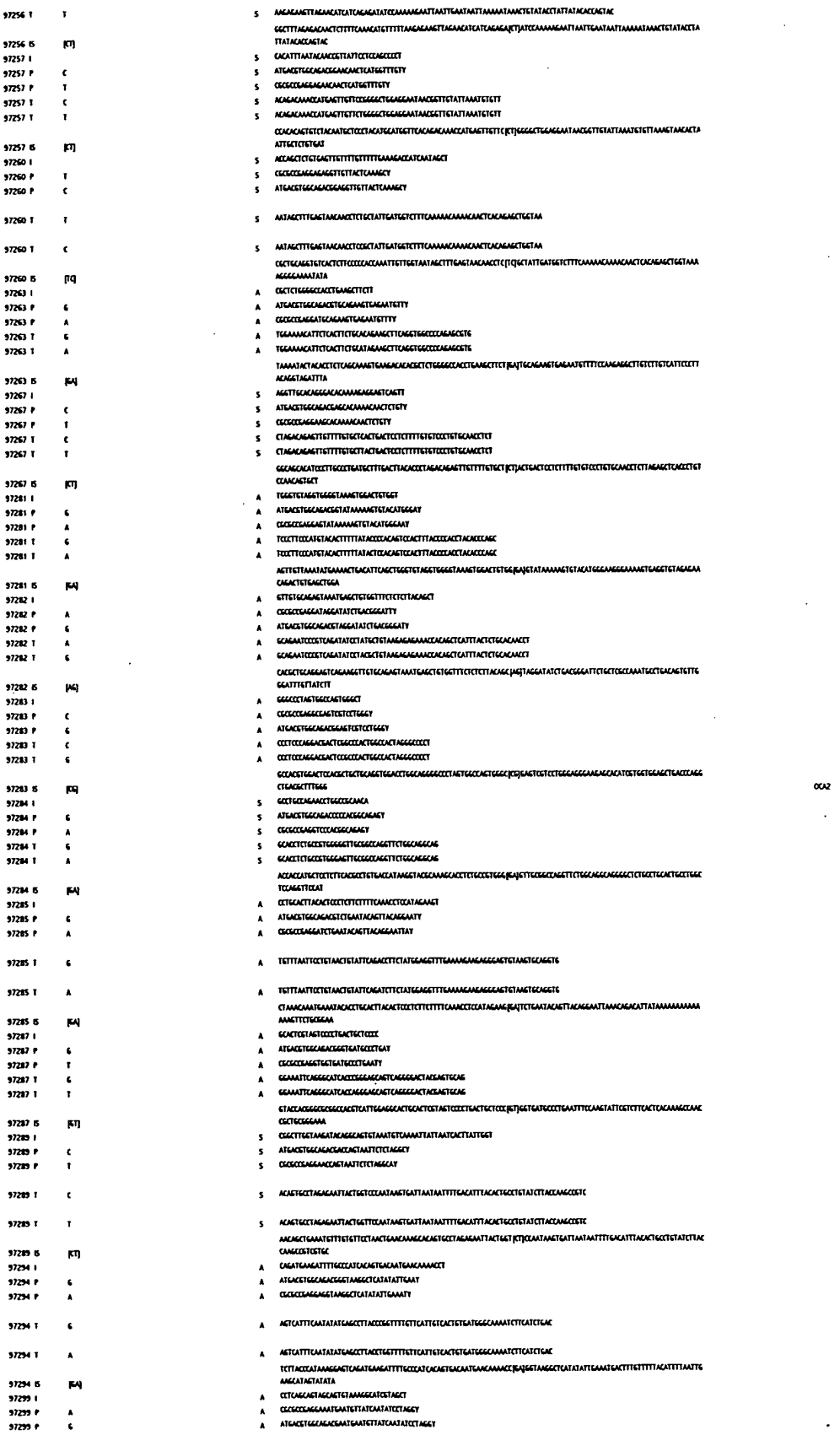


FIGURE 129C

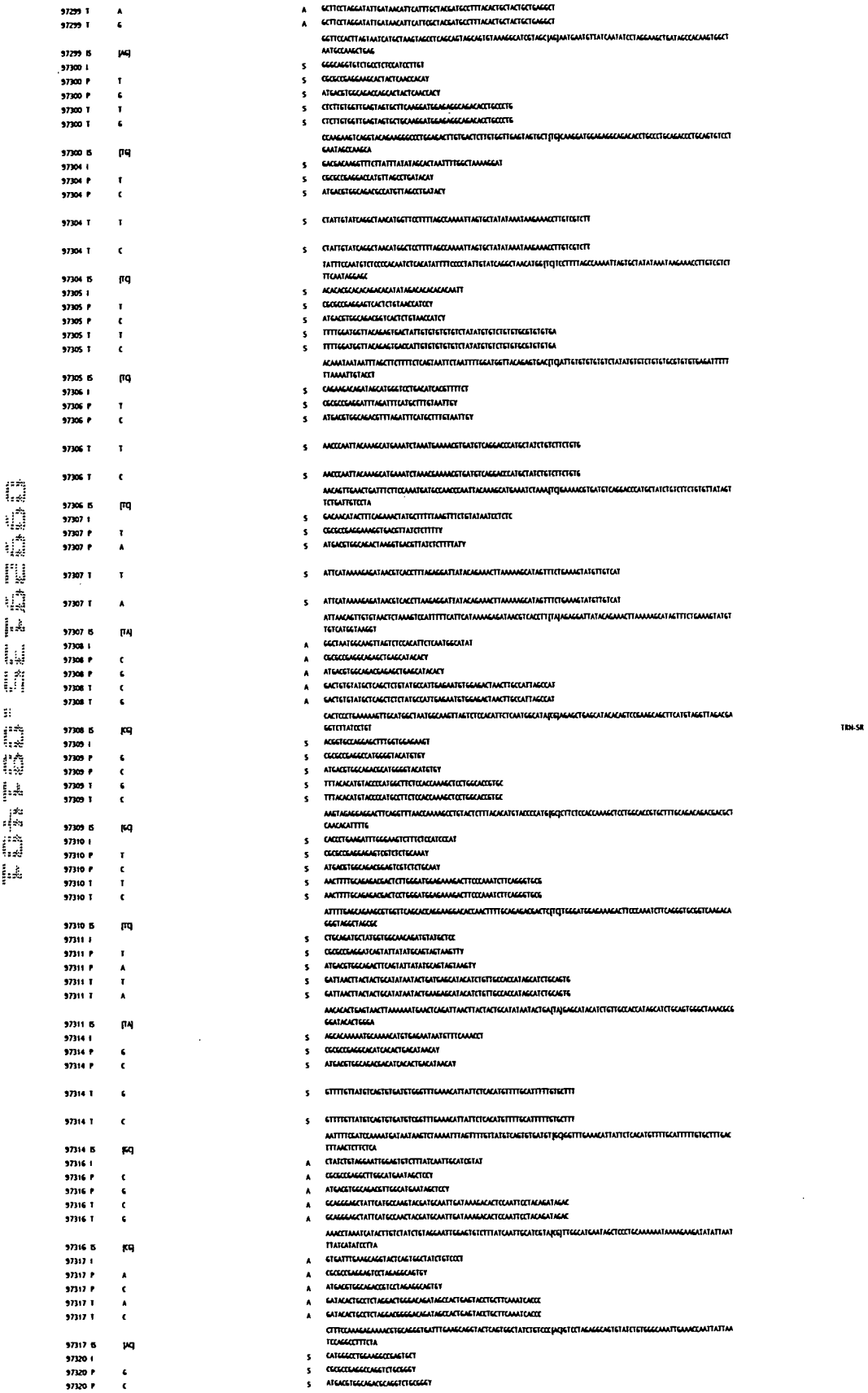
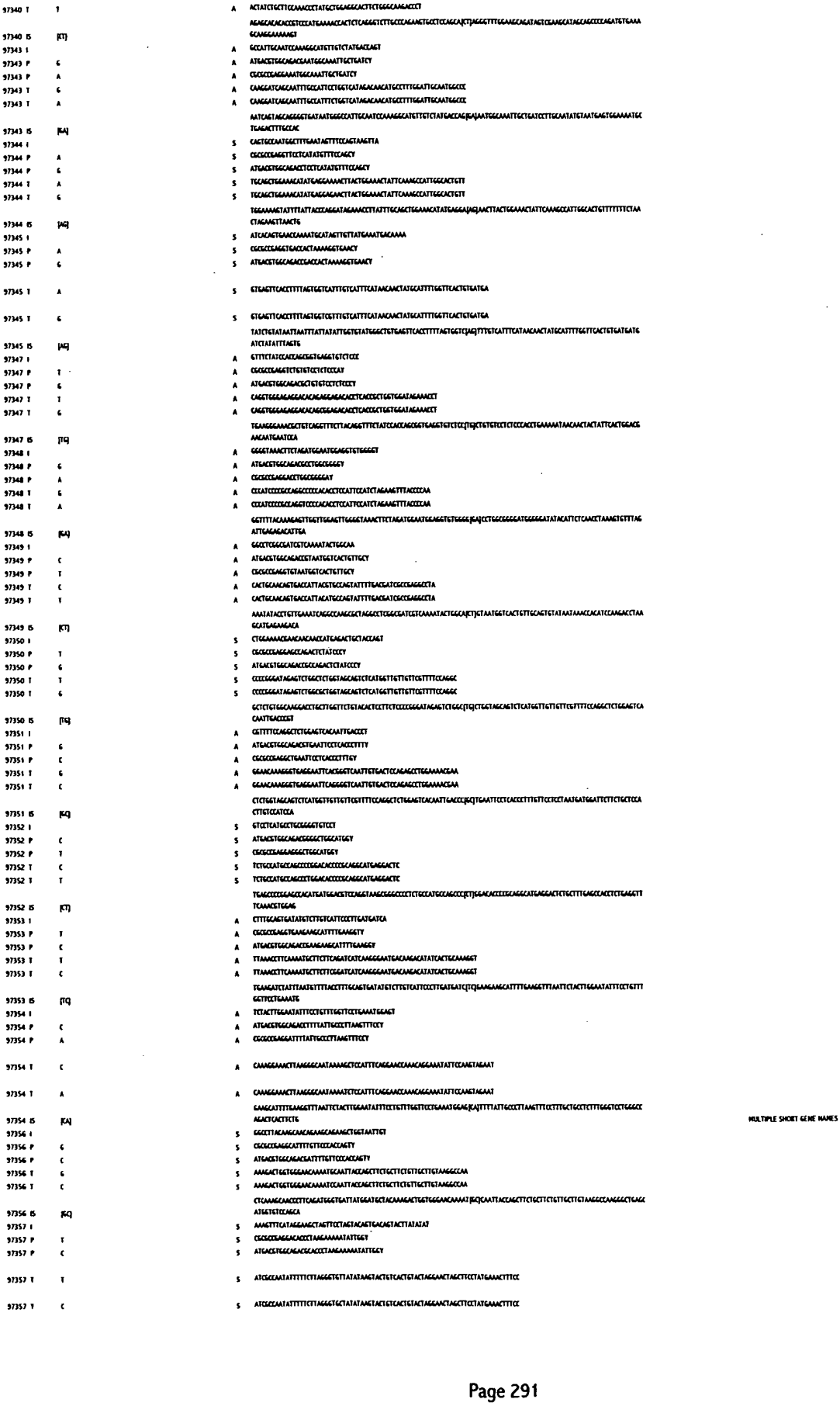




FIGURE 129C



MULTIPLE SHORT GENE NAMES



FIGURE 129C

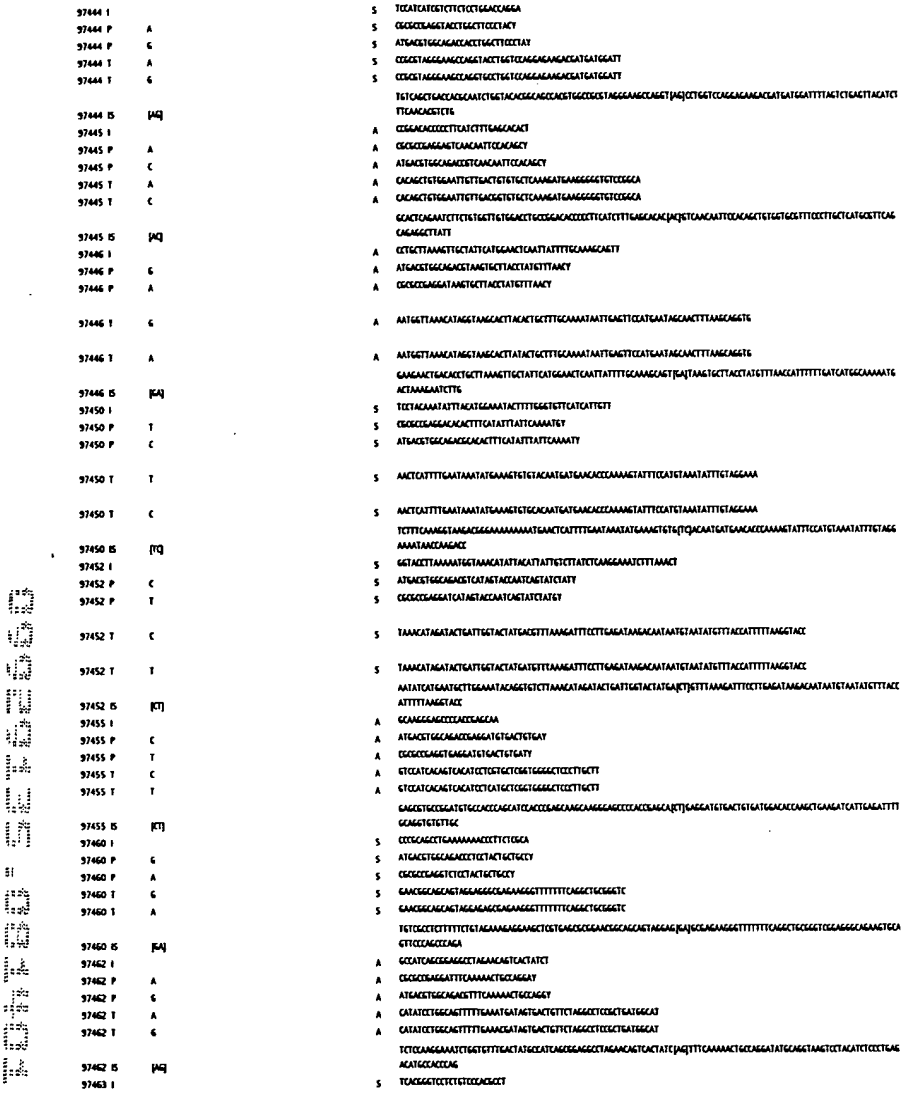
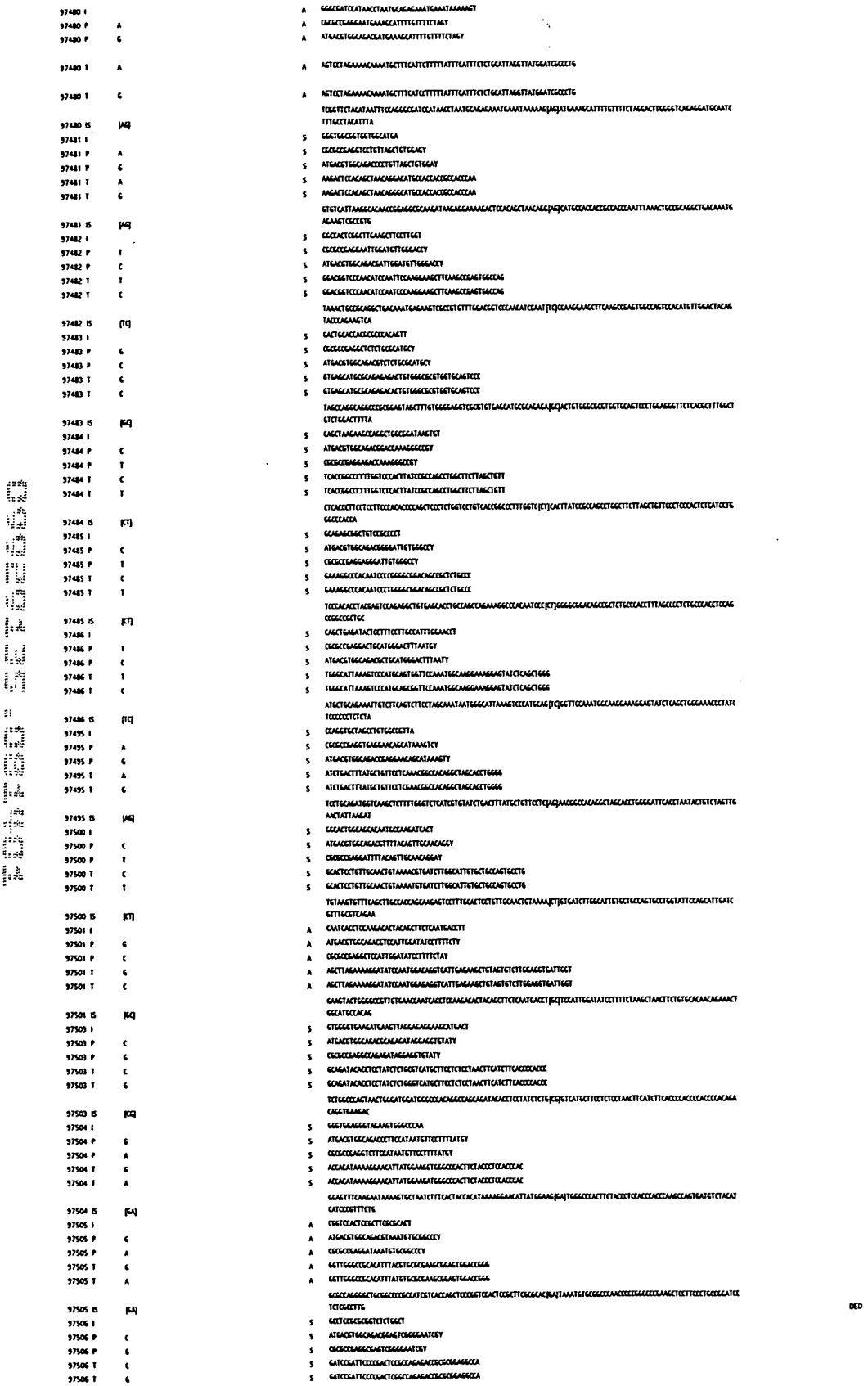


FIGURE 129C



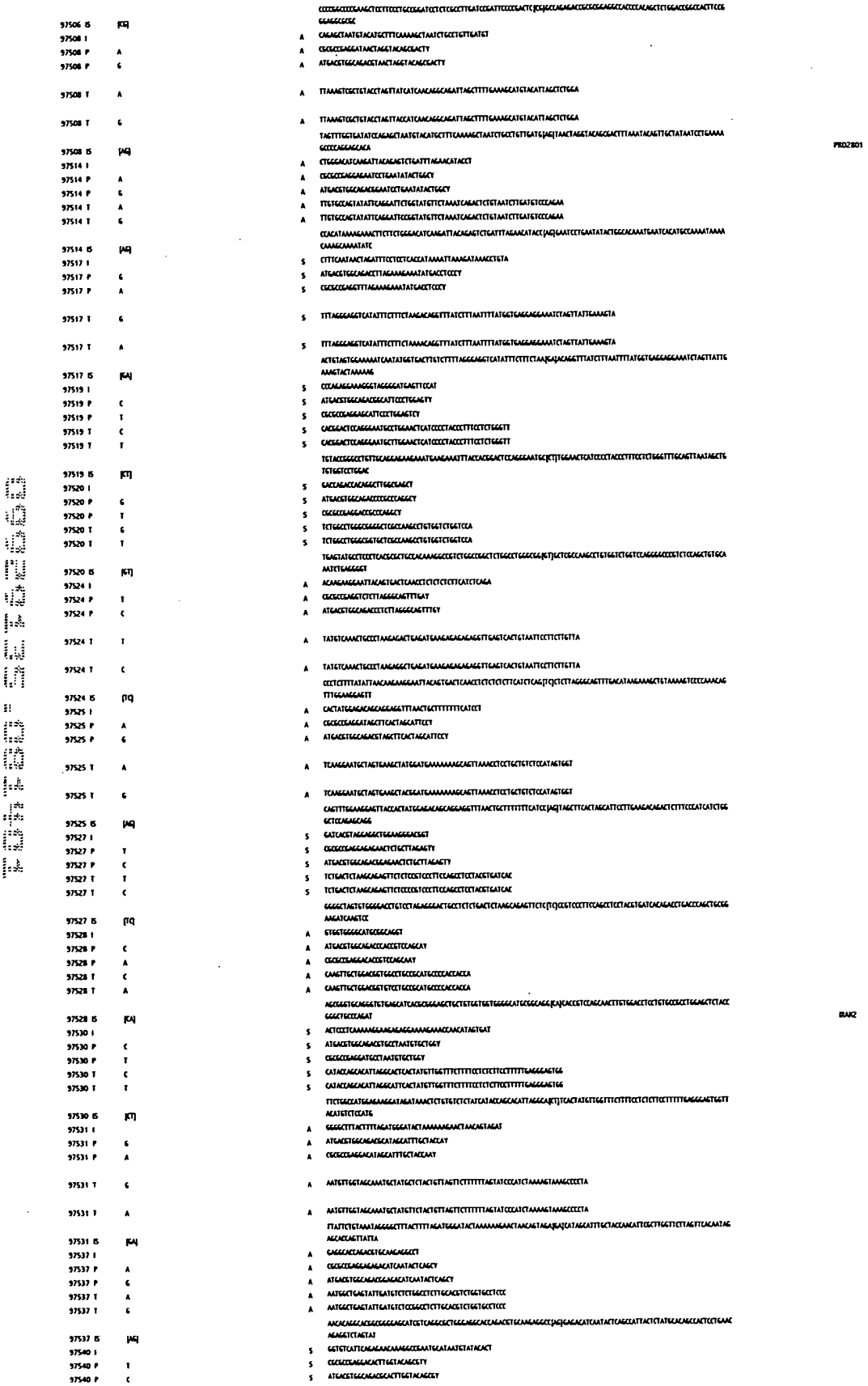
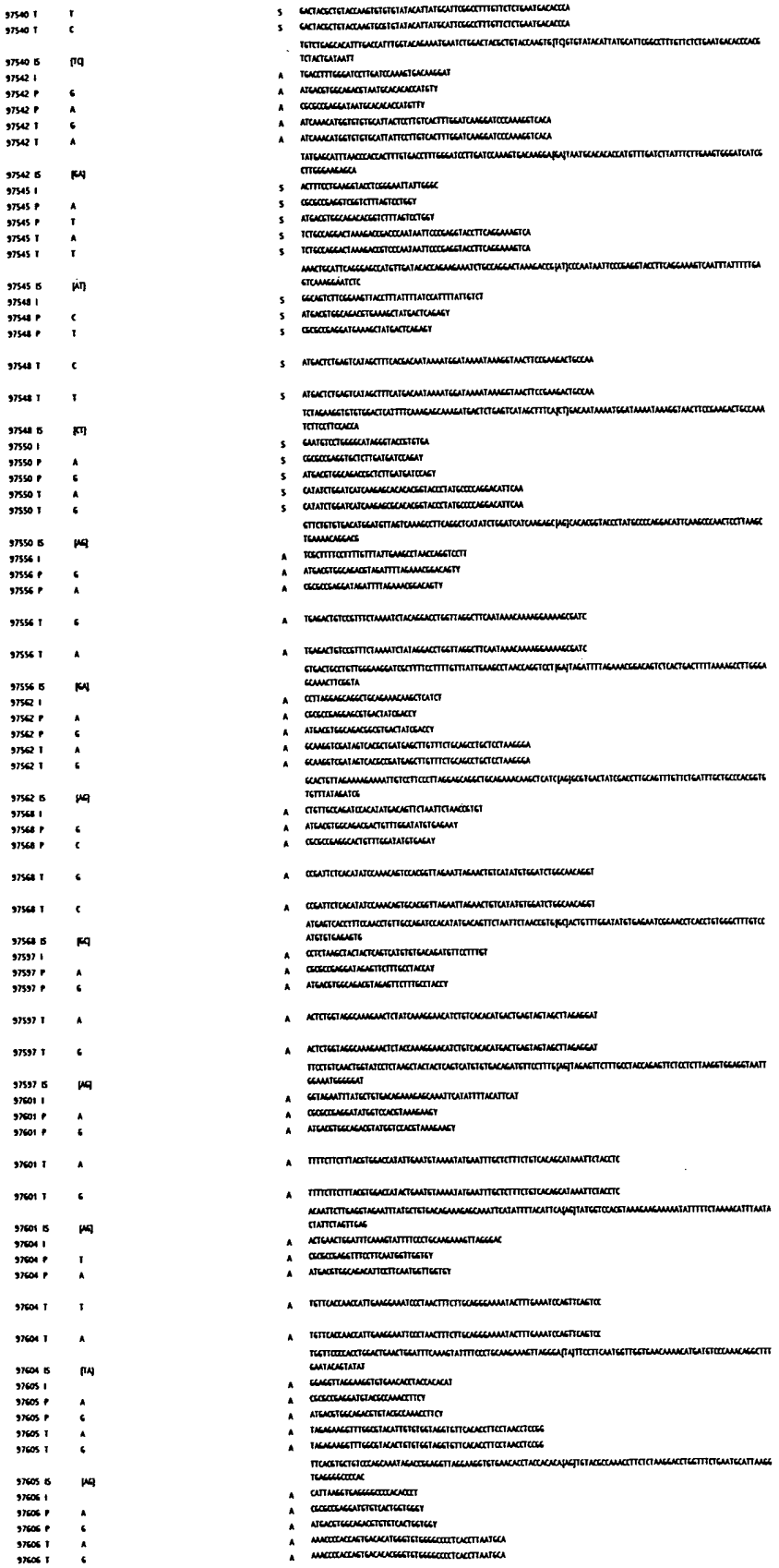


FIGURE 129C



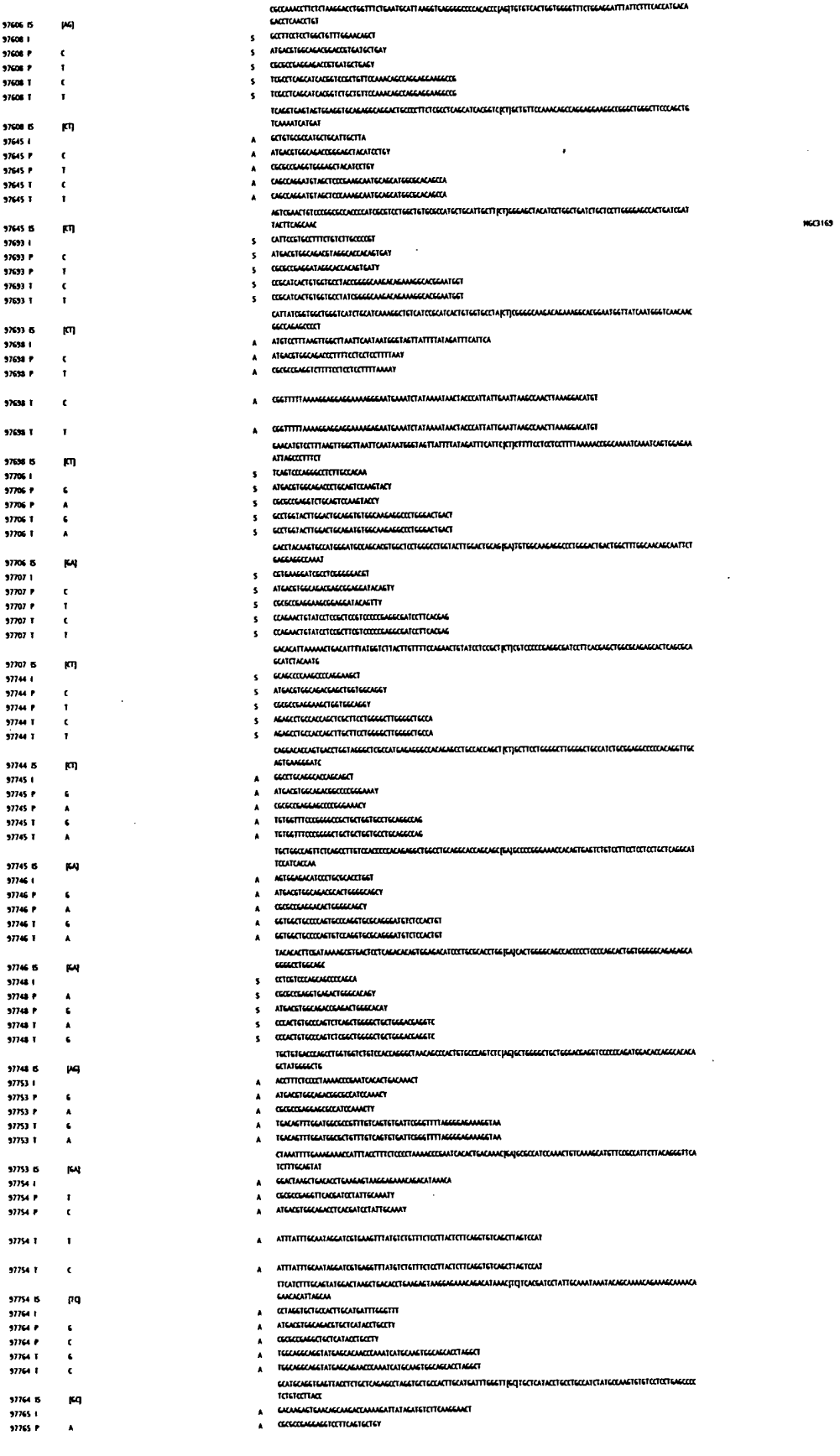
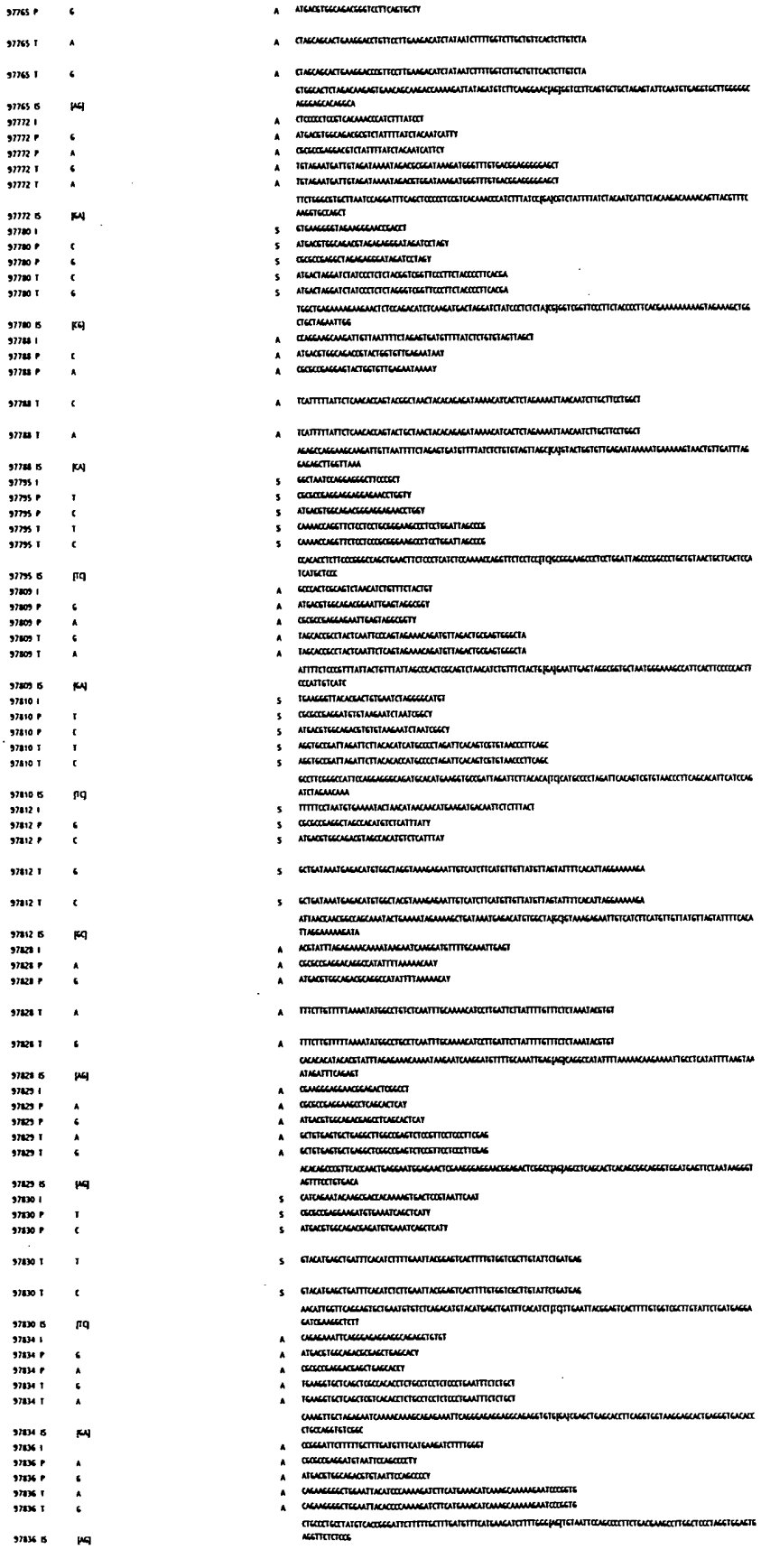


FIGURE 129C



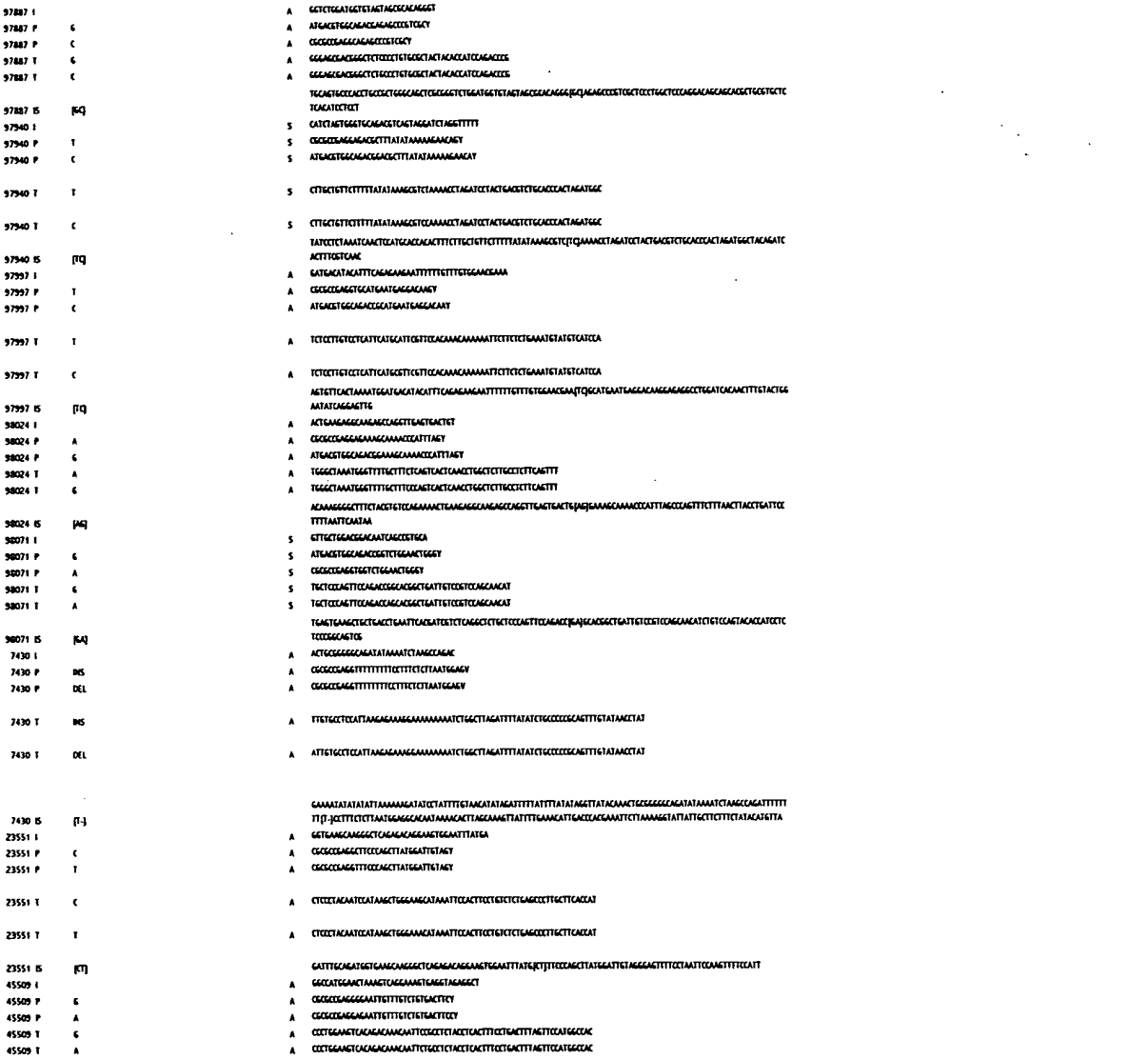


FIGURE 129C

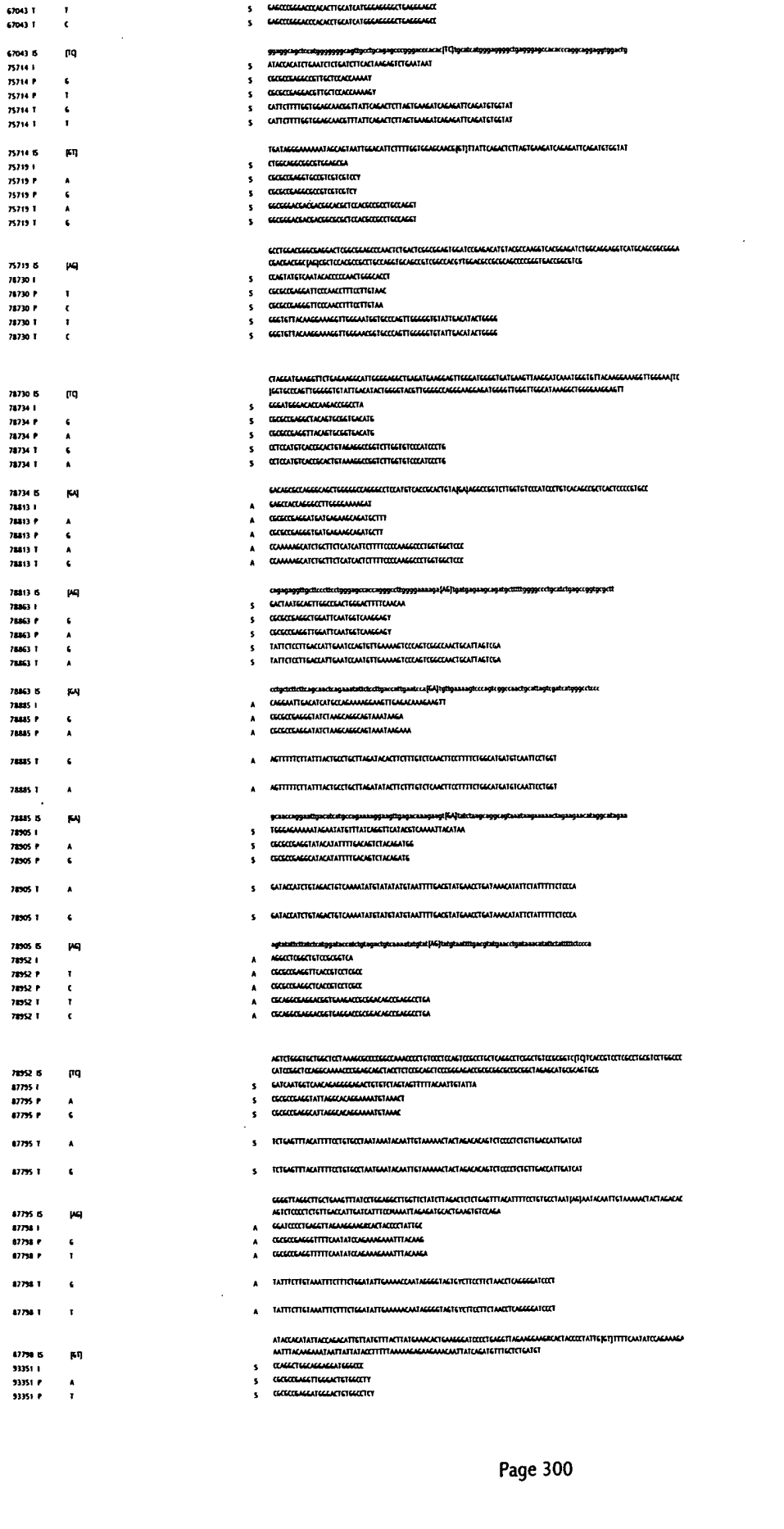


FIGURE 129C

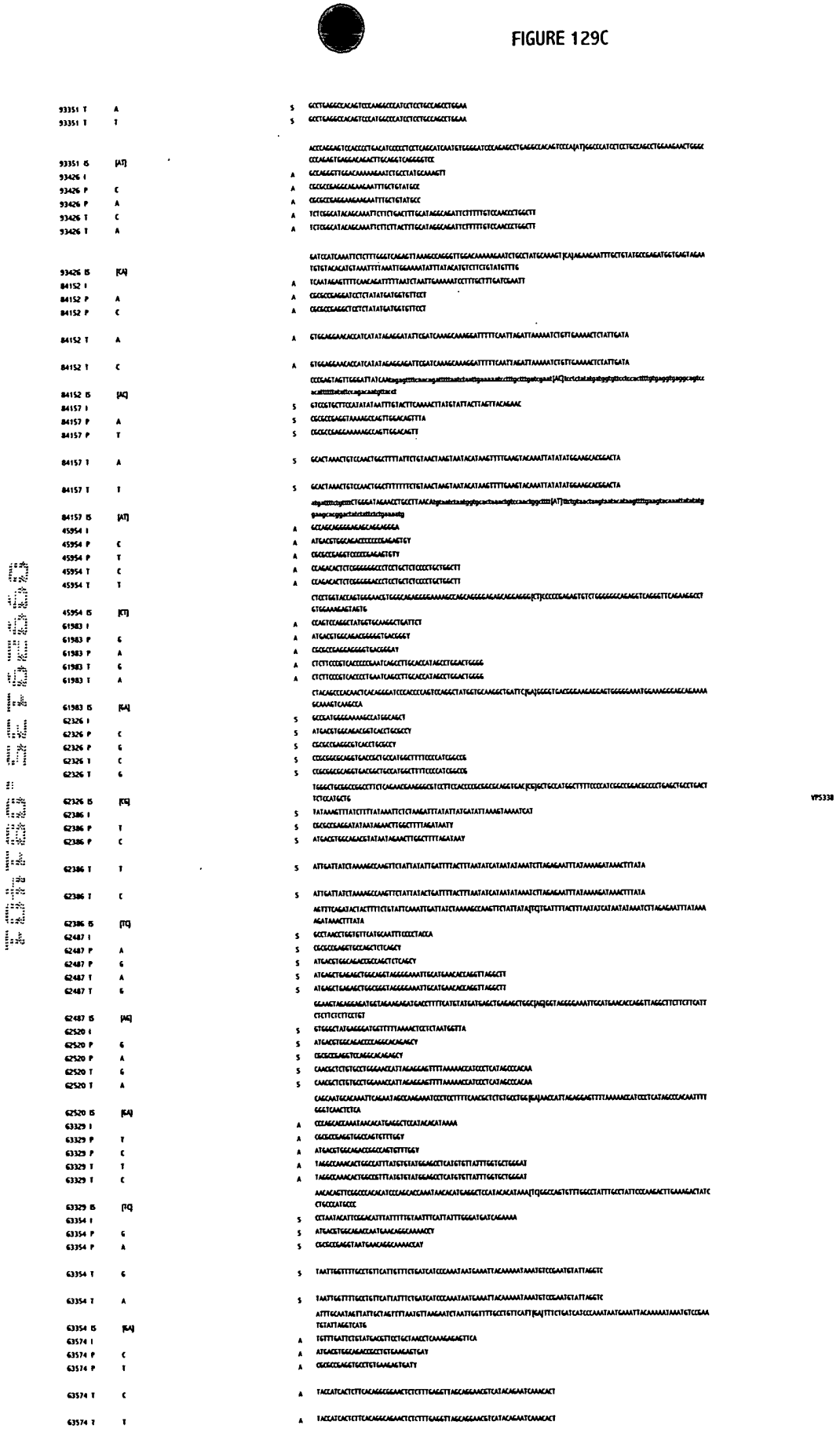
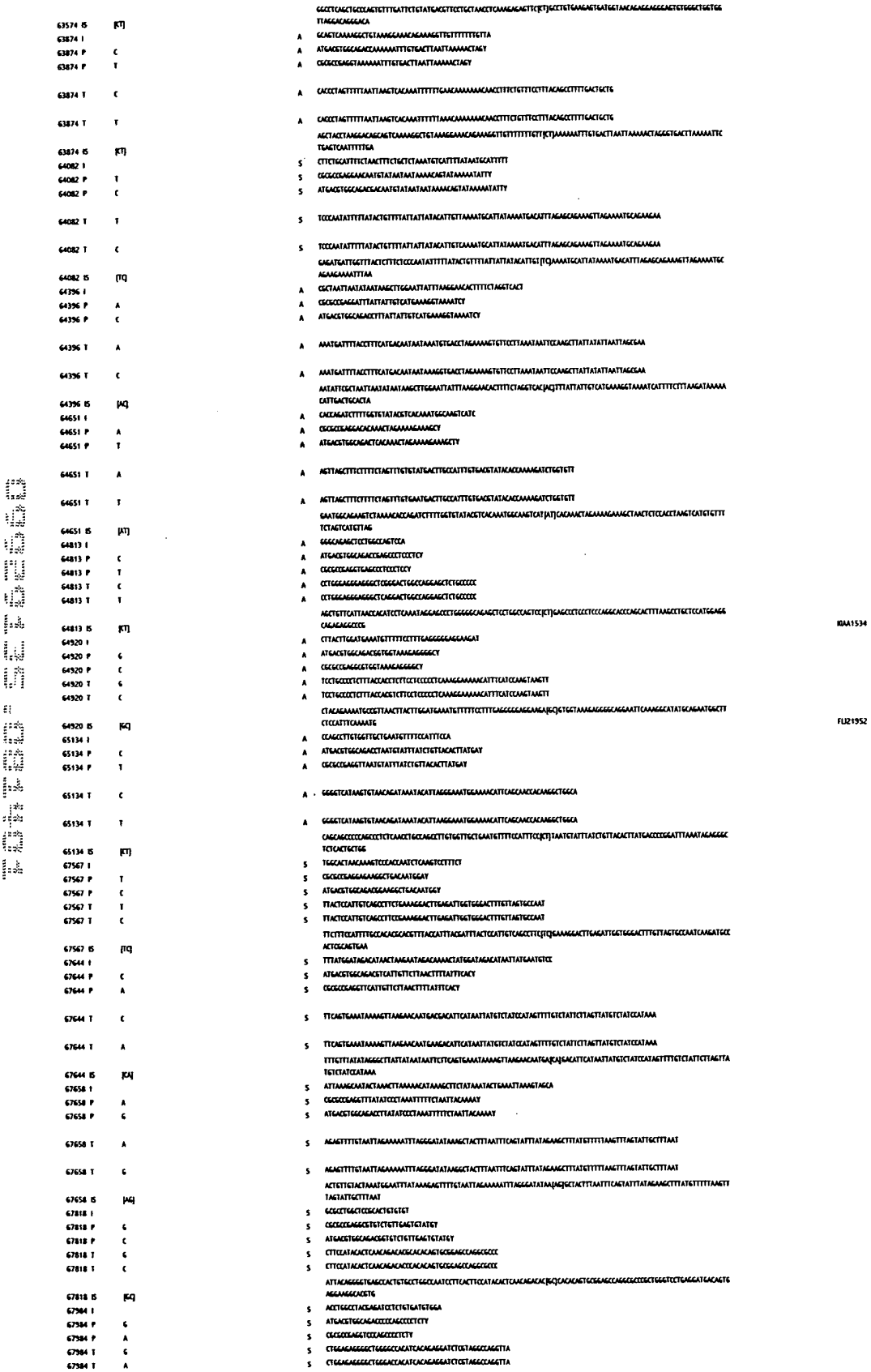
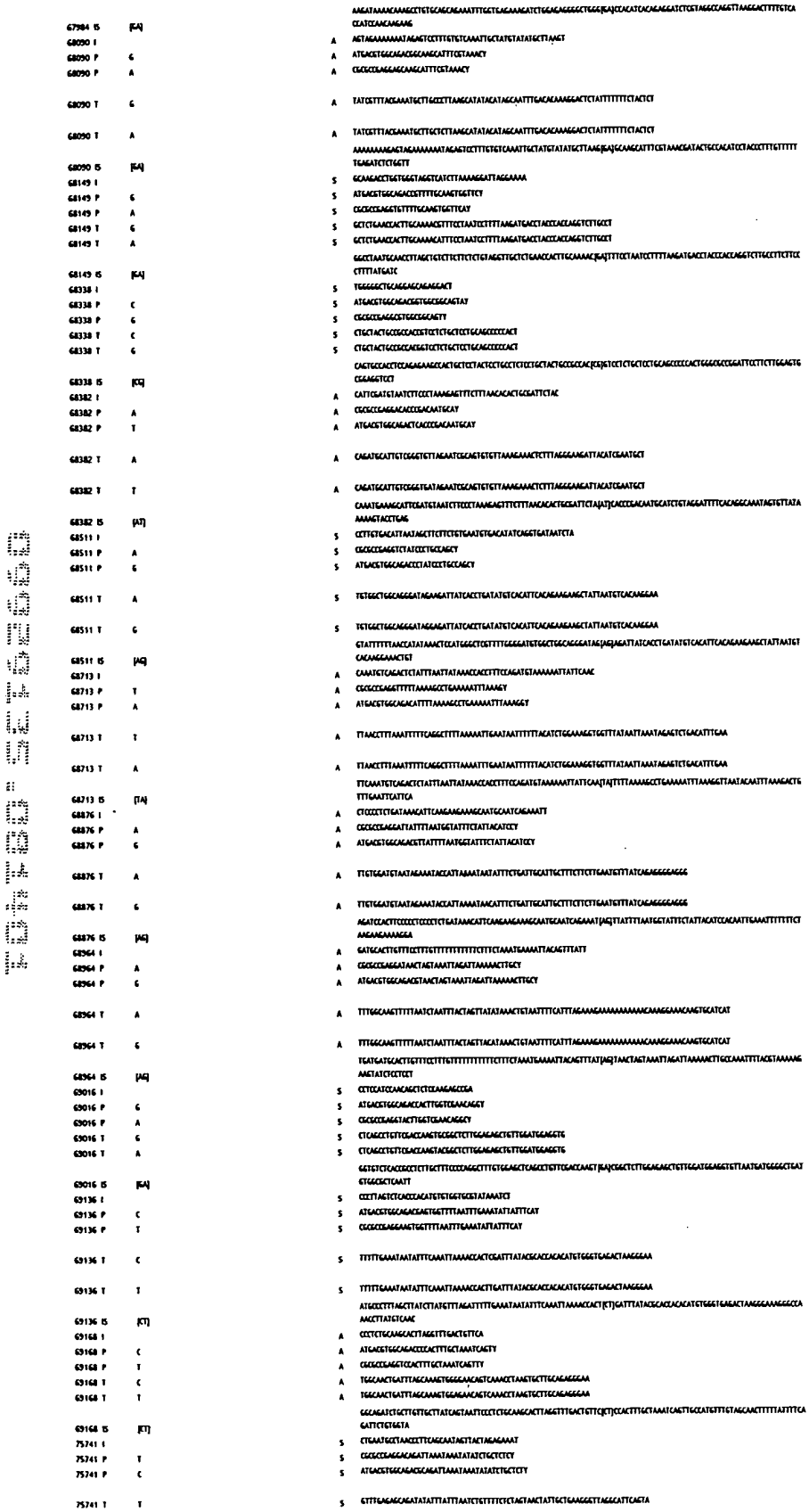


FIGURE 129C





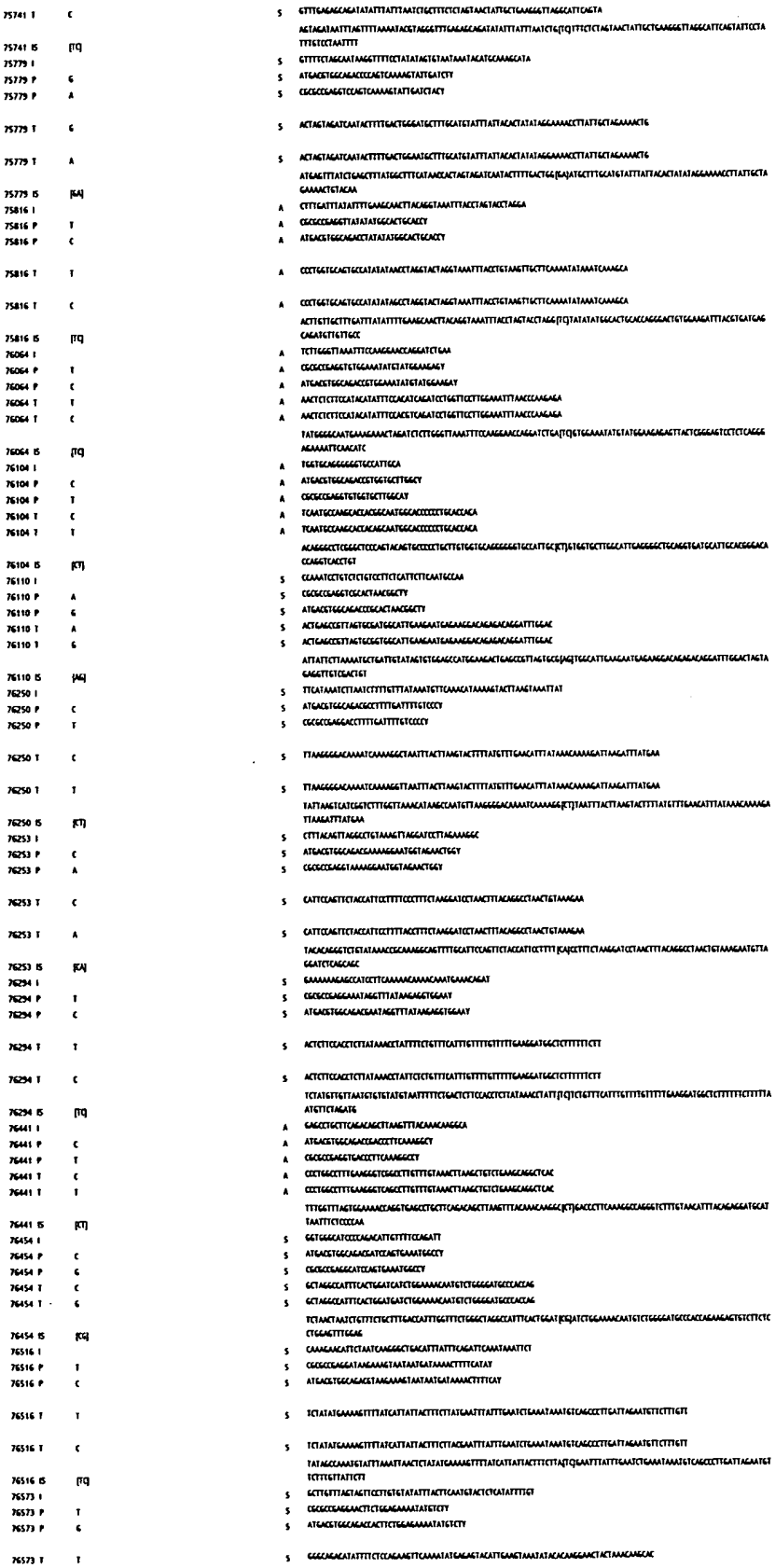


FIGURE 129C

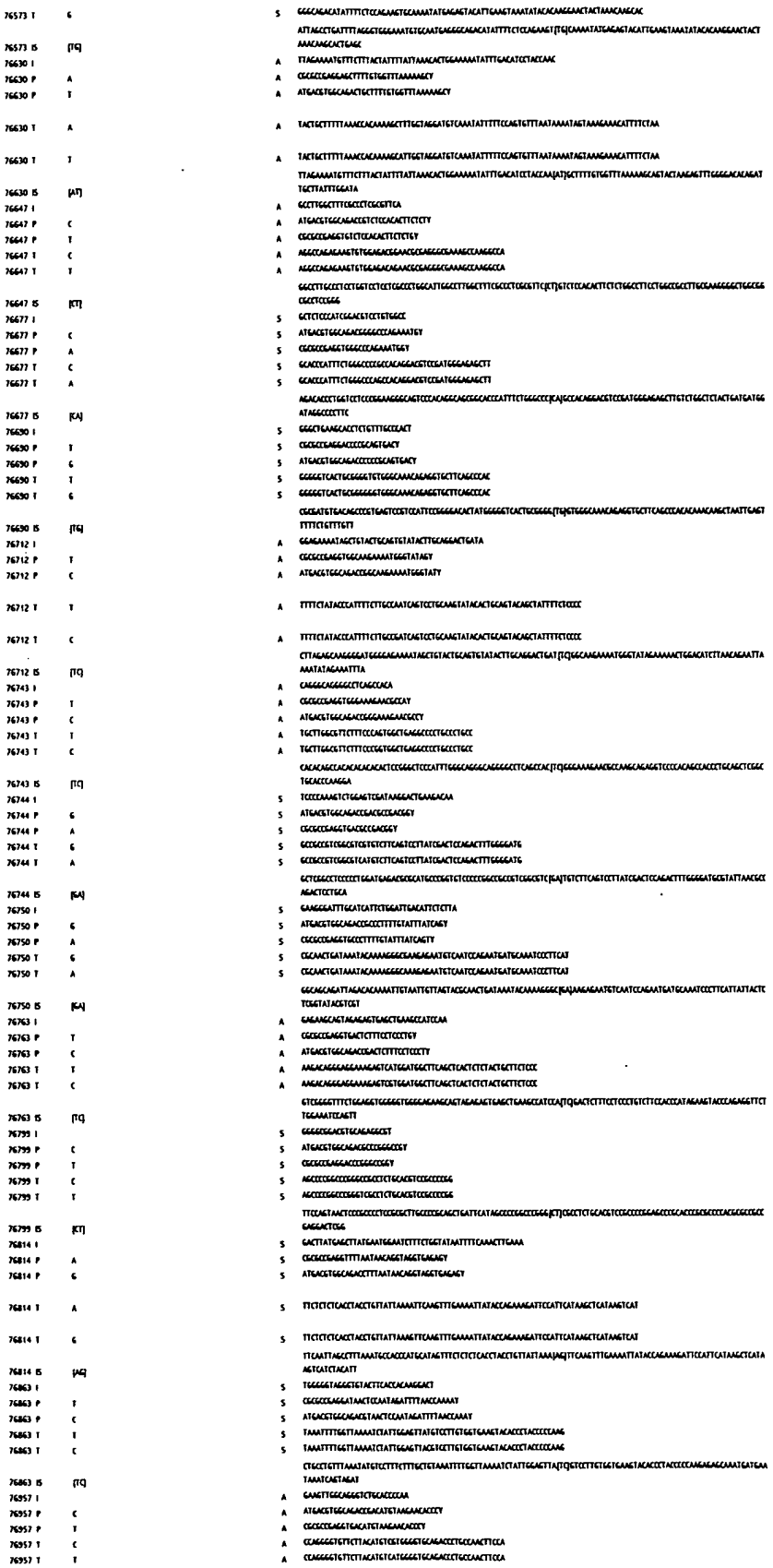


FIGURE 129C

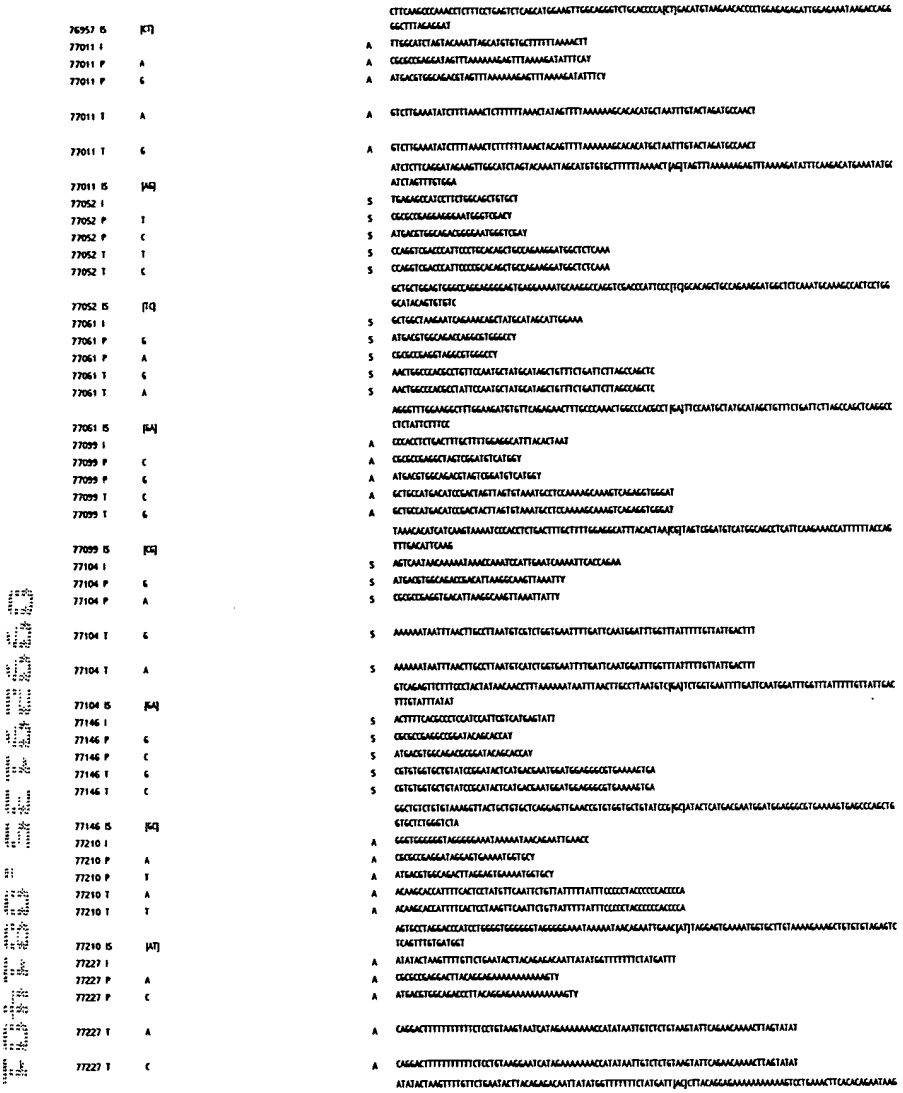


FIGURE 129C

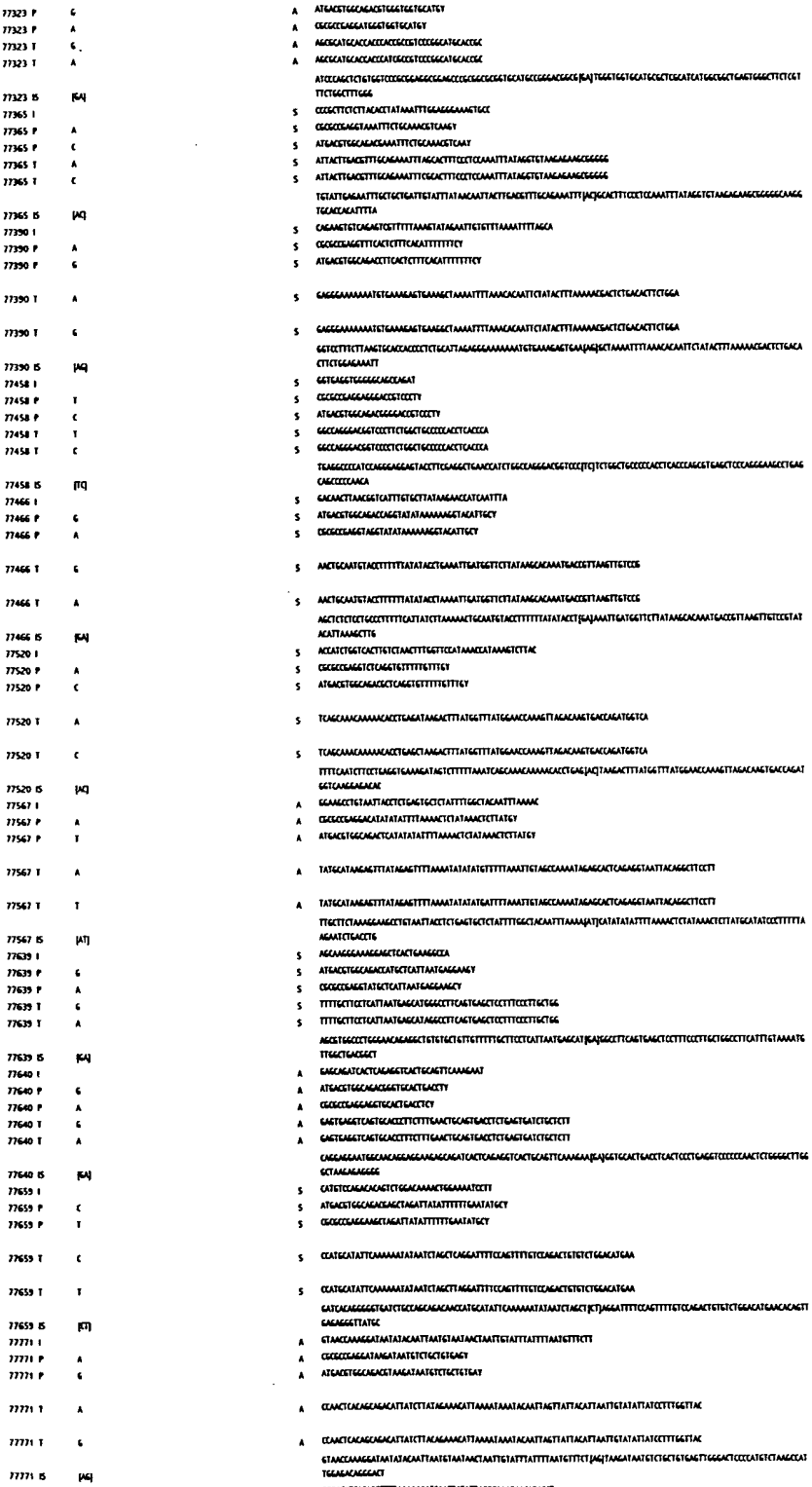
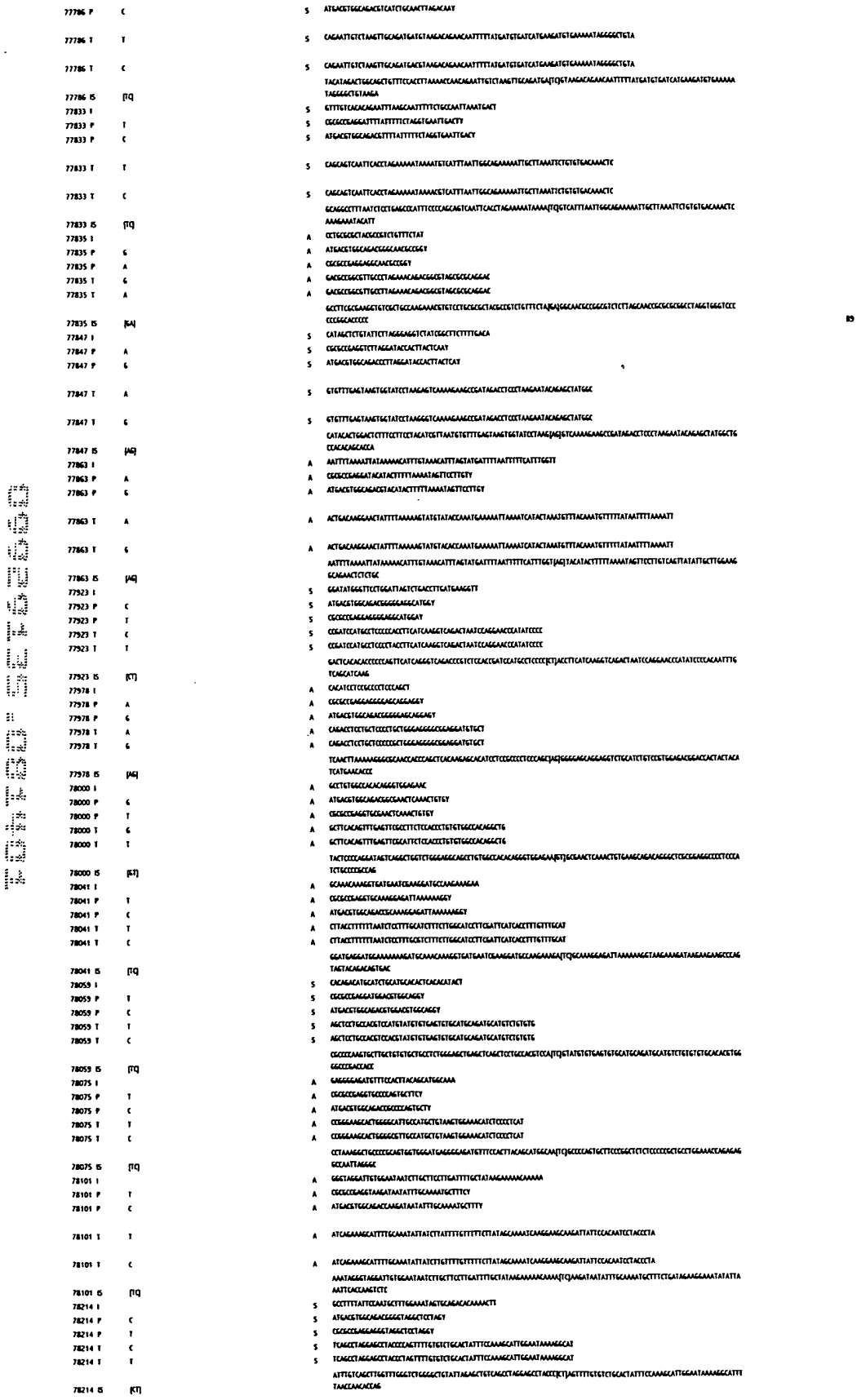


FIGURE 129C





Docket No. 10676-1275P1 (Sequence Listing)

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78251 T  A       A  ACCCGCTTGGGGTGCCTCCTCCTTGAGGGAAACCAAAACTTGCTAGTGGGTT
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78251 IS  [GA]      CAAATCCATTTT
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78318 T  A       A  GGGTTCCCCAAATTGGCCTAGGAATTCCAAGGGCAGTCCAGATGGATGAAGGAA
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78358 P  G       S  ATGACGTGGCAGACCCTCATCTTAAAGGATAATTAAAATCTY
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78422 P  T       A  CGCGCCGAGGTAAAATGGCAAAGAGCAAGY
78422 P  C       A  ATGACGTGGCAGACCAAAATGGCAAAGAGCAAGY

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78493 P  A       S  ATGACGTGGCAGACTGAGACTCATTGCTGCTY

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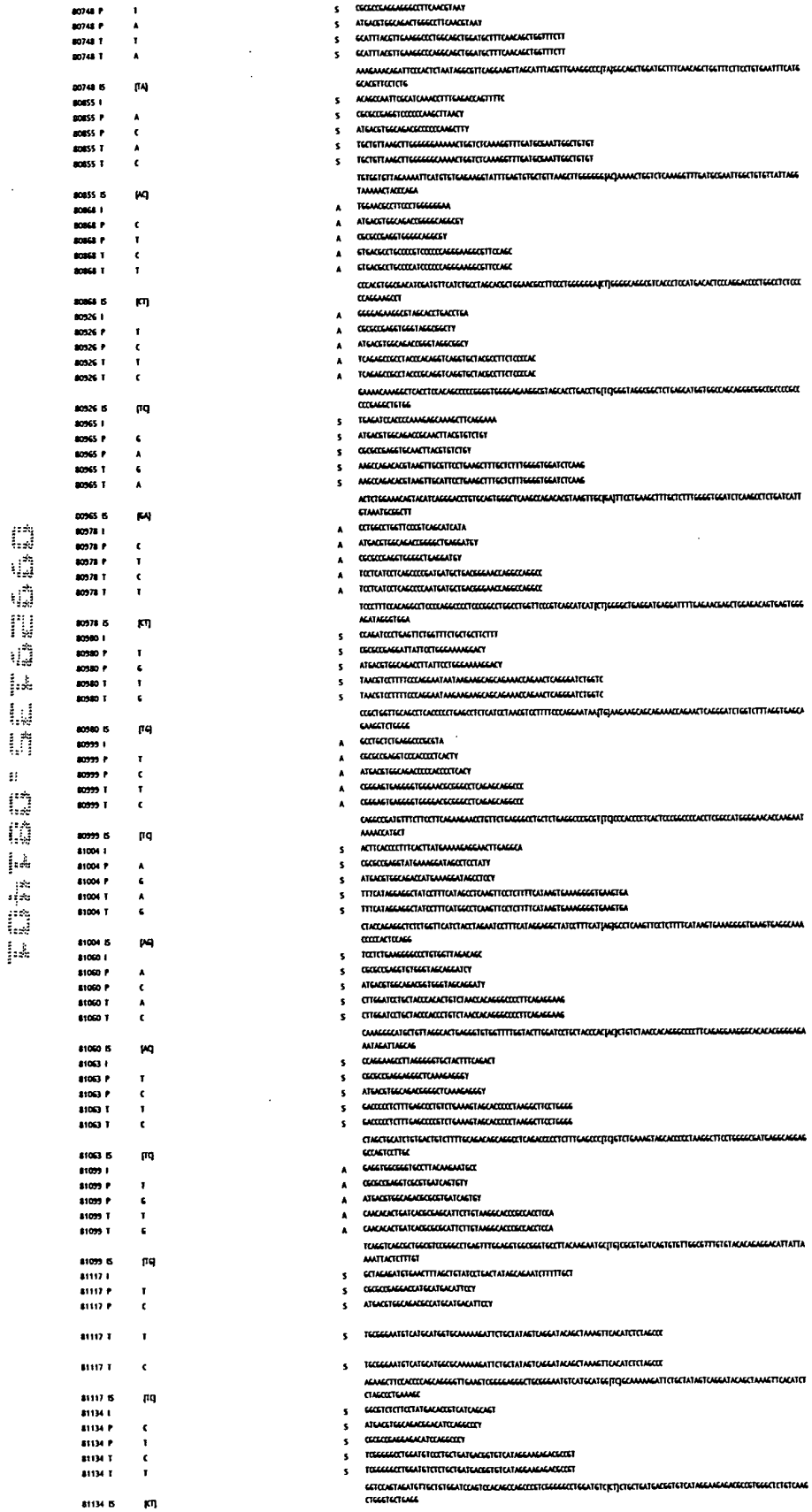
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78495 P  G       A  ATGACGTGGCAGACGCTCTGGCACTGGAT
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78586 IS  [GT]      AAAAGTAGAGGTCG
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                    AATGGAATAATTTAGTAAGTCACATGCAAATGGCAGGAGCAAGGAAGGAAGGCTGATCCTCAC[TA]AAGACAATGAACAAGCATTCTCTGTCTCTTCTAGAACAAGTTAACA
80521 IS  [TA]      TTAGTTAGTTCTGC
80696 I          S  CCACTGAAGTCACAATATCACCCTATTTCTCTCCCAACAGAACT
80696 P  G       S  CGCGCCGAGGCCAACCACAGATGTTCCY
80696 P  C       S  ATGACGTGGCAGACGCAACCACAGATGTTCCY
80696 T  G       S  GATGGGAACATCTGTGGTTGGGTTCTGTTGGGAGAGAAATAGGGTGATATTGTGACTTCAGTGGTA
80696 T  C       S  GATGGGAACATCTGTGGTTGCGTTCTGTTGGGAGAGAAATAGGGTGATATTGTGACTTCAGTGGTA
                    GGGAGTGACAAAAGAAGGGTGCTAGGCTGGTAACAGAGGATGGGAACATCTGTGGTTG[GC]GTTCTGTTGGGAGAGAAATAGGGTGATATTGTGACTTCAGTGGTA
80696 IS  [GC]      GCTAACTAAATGCAA
80748 I          S  GAAACGAGCTGTTGAAAGCATCCAGCTGCCC
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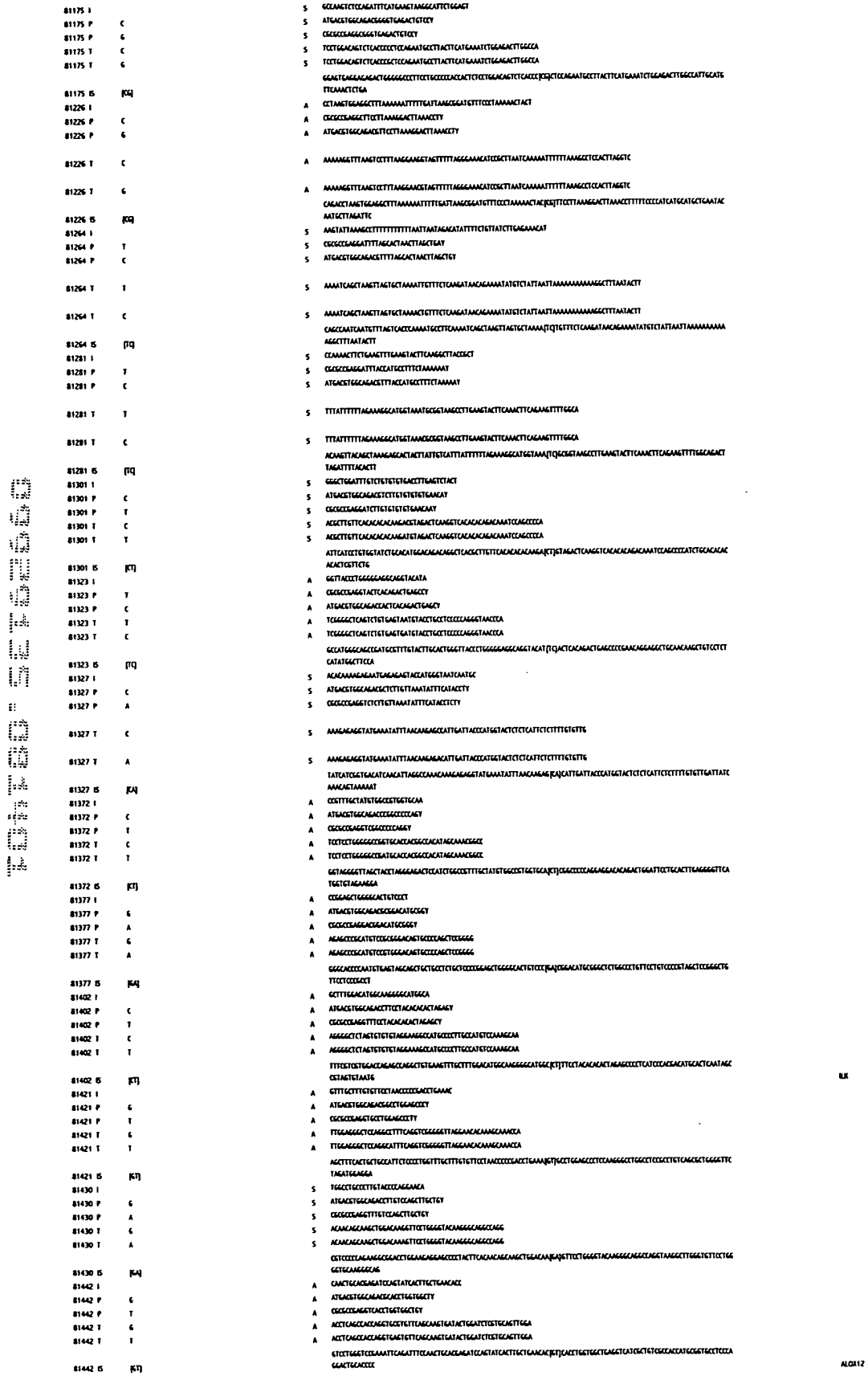


FIGURE 129C

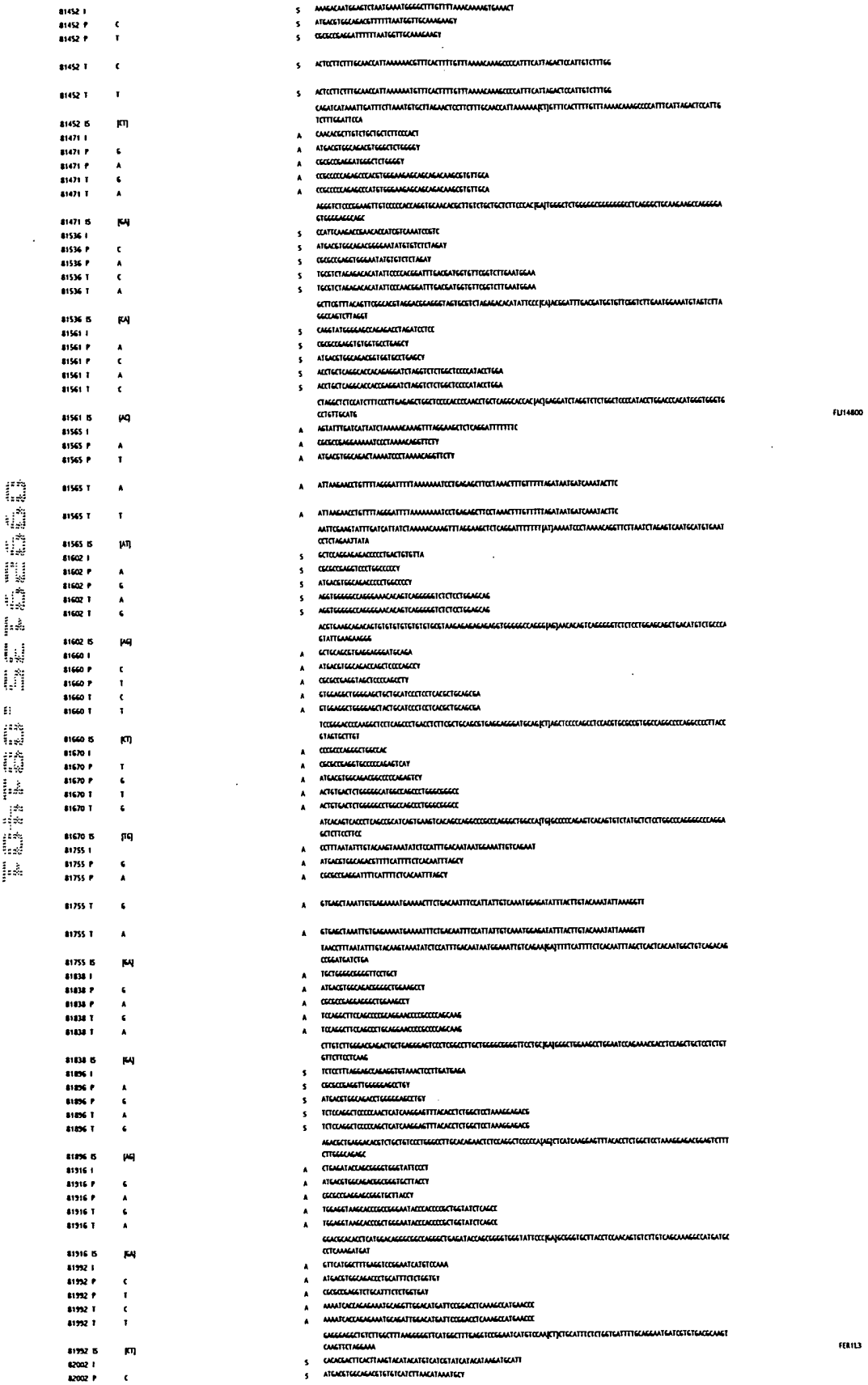
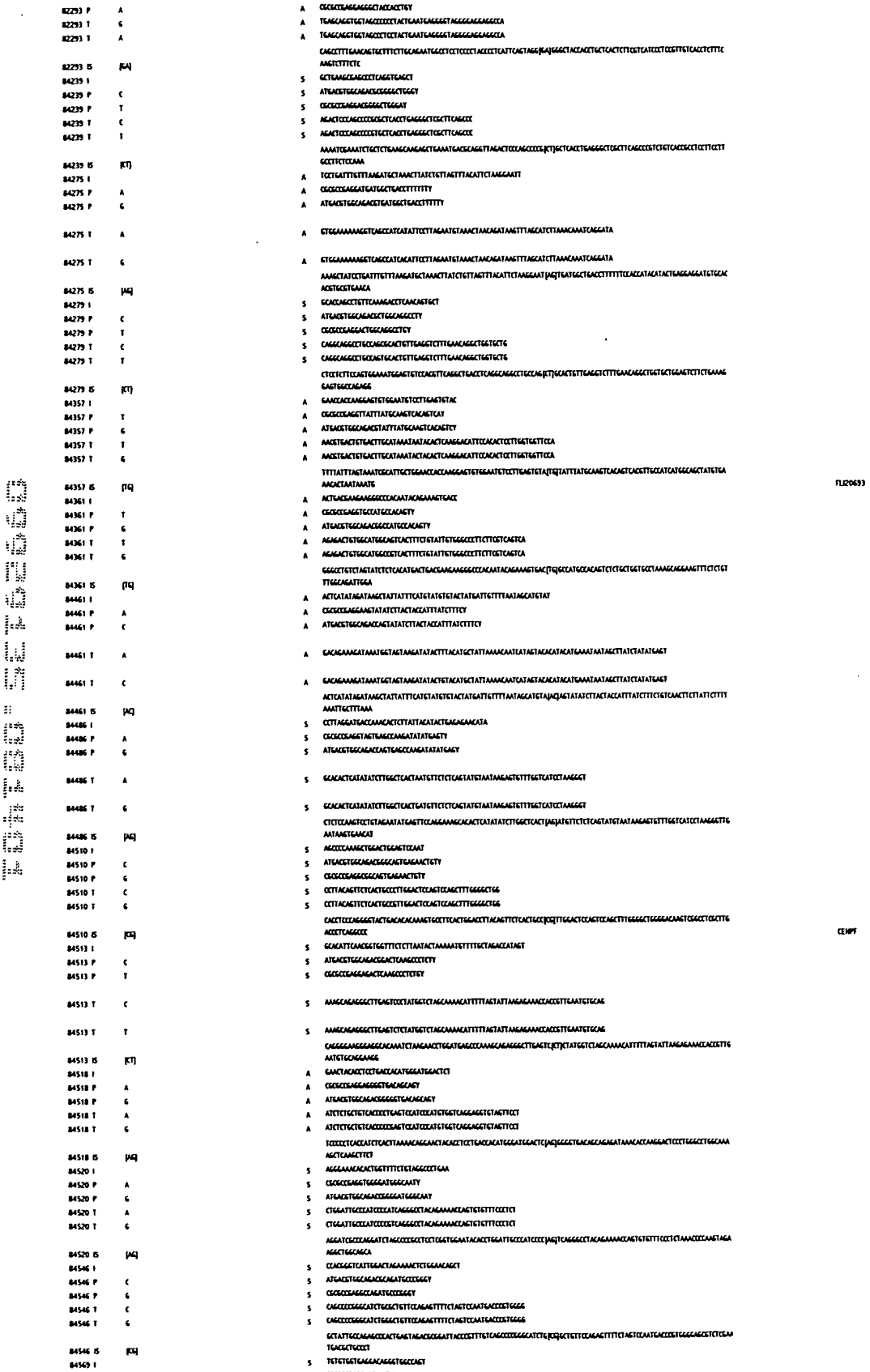
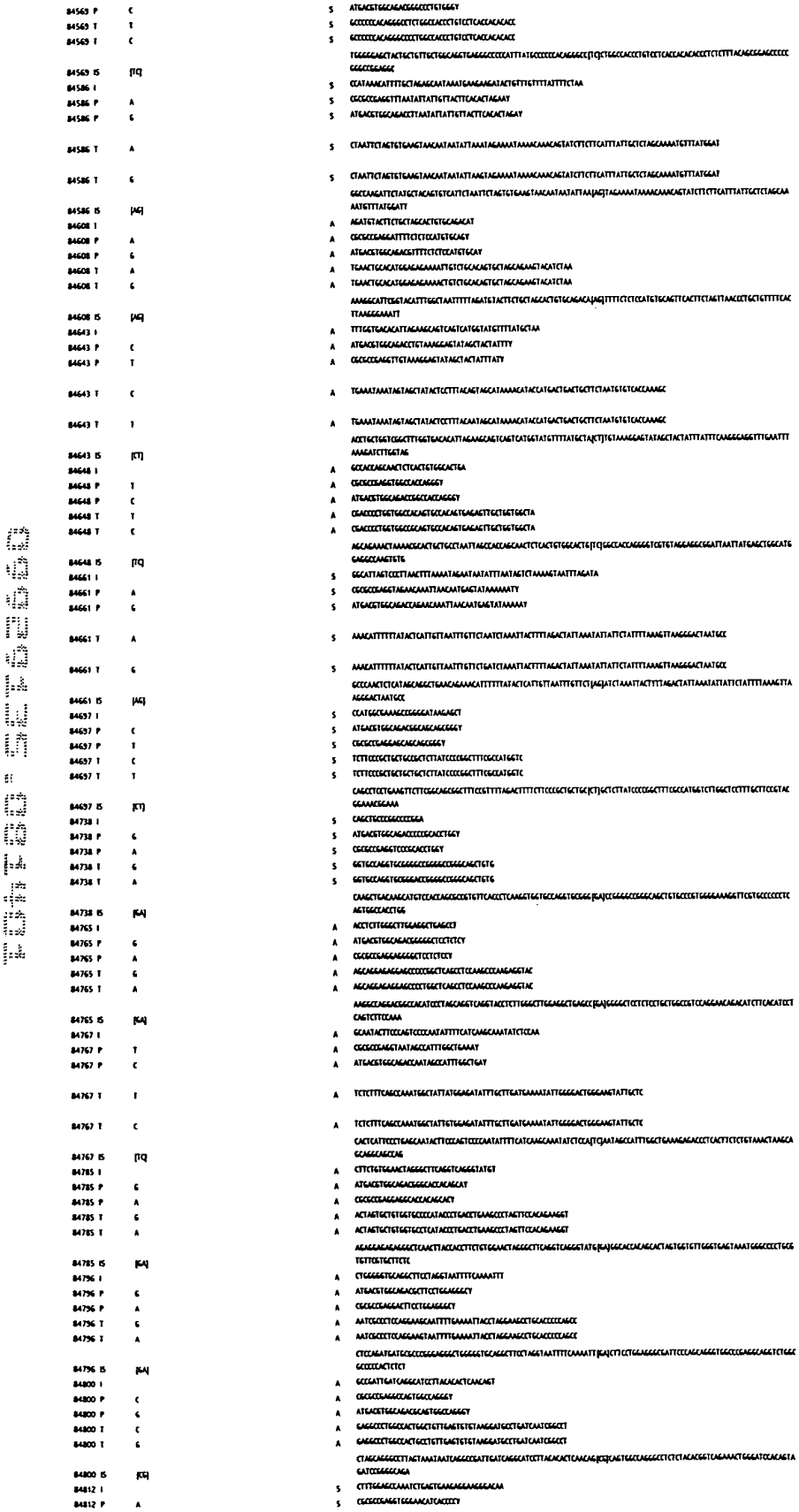
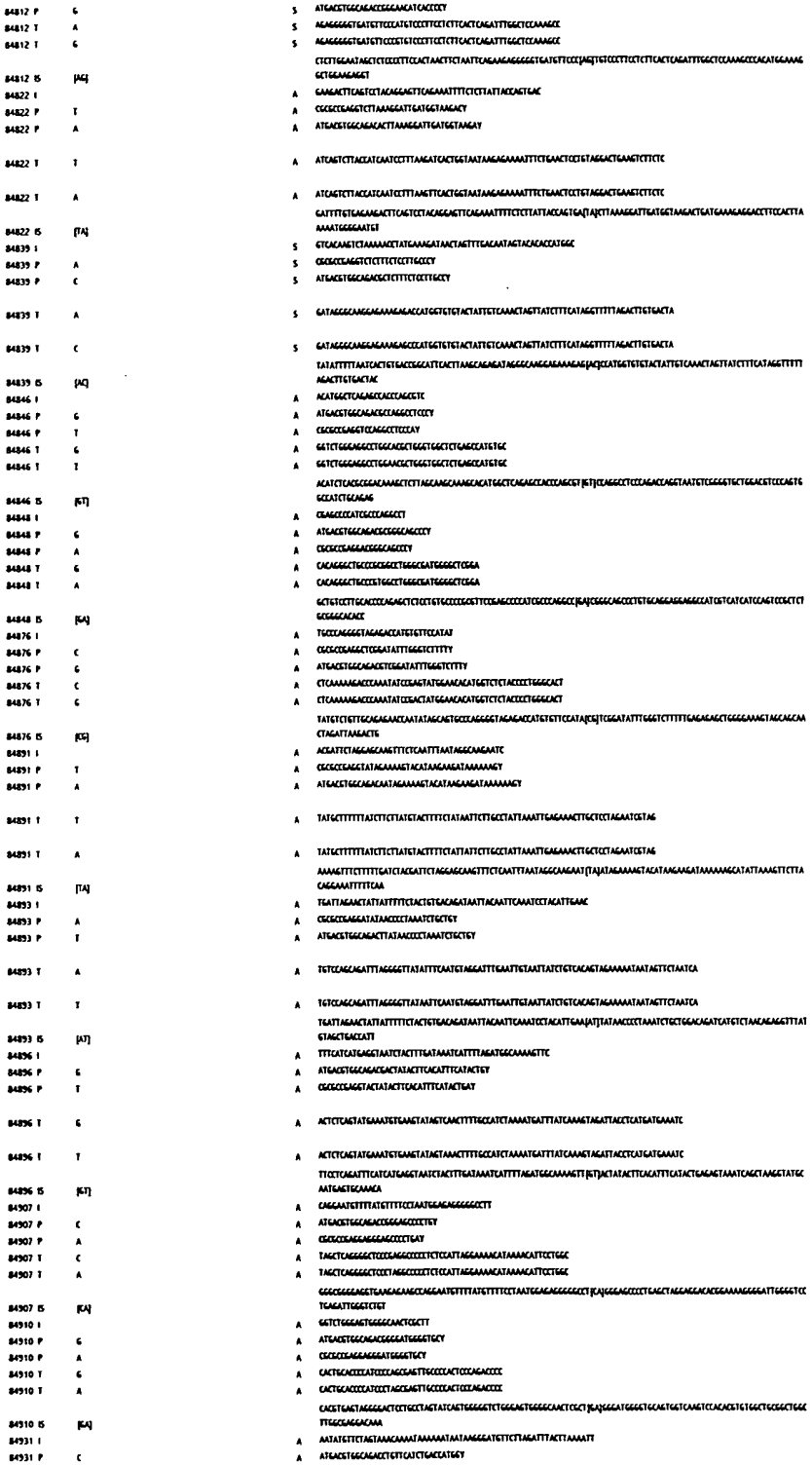

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81452 P C S ATGACGTGGCAGACGTTTTTTAATGGTTGCAAAGAAGY
81452 P T S CGCGCCCAGGATTTTTTAATGGTTGCAAAGAAGY
81452 I C S ACTCTTCTCTTTGCAACCATTAAAAAACGTTTCACTTTTGTTTAAAACAAAGCCCCATTTCATTAGACTCCATTGTCTTTGG
81452 T T S ACTCCTTCTTTGCAACCATTAAAAAATGTTTCACTTTTGTTTAAAACAAAGCCCCATTTCATTAGACTCCATTGTCTTTGG
81452 IS [CT] CAGATCATAAATTGATTTCTTAAATGTGCTTAGAACTCCTCTTTGCAACCATTAAAAAAGTJGTTTCACTTTTGTTTAAAACAAAGCCCCATTTCATTAGACTCCATTG TCTTTGGATTCCA
81471 I A CAACACGCTTGTCTGCTGCTCTTCCCACT
81471 P G A ATGACGTGGCAGACGTGGGCTCTGGGGT
81471 P A A CGCGCCCAGGATGGGCTCTGGGGT
81471 T G A CCGCCCCCAGAGCCCACGTGGGAAGAGCAGCAGACAAGCGTGTTGCA
81471 T A A CCGCCCCCAGAGCCCATGTGGGAAGAGCAGCAGACAAGCGTGTTGCA
81471 IS [GA] AGGGTCTCCCGGAAGTTGTCCCCCACCAGGTGCAACACGCTTGTCTGCTGCTCTTCCCACJGATGGGCTCTGGGGGCGGGGGGGCCTCAGGGCTGCAAGAAGCCAGGGGA GTGGGGAGGCAGC
81536 I S CCATTCAAGACCGAACACCATCGTCAAATCCGTC
81536 P C S ATGACGTGGCAGACGGGGAATATGTGTCTCTAGAY
81536 P A S CGCGCCGAGGTGGGAATATGTGTCTCTAGAY
81536 T C S TGCGTCTAGAGACACATATTCCCCAACGGATTTGACGATGGTGTTCGGTCTTGAATGGAA
81536 T A S TGCGTCTAGAGACACATATTCCCAACGGATTTGACGATGGTGTTCGGTCTTGAATGGAA
81536 IS [CA] GCTTCGTTACAGTTCGGCACGTAGGACGGAGGGTAGTGCGTCTAGAGACACATATTCCCJCAJACGGATTTGACGATGGTGTTCGGTCTTGAATGGAAATGTAGTCTTA GGCCAGTCTTAGGT
81561 I S CAGGTATGGGGAGCCAGAGACCTAGATCCTCC
81561 P A S CGCGCCGAGGTGTGGTGCCTGAGCY
81561 P C S ATGACGTGGCAGACGGTGGTGCCTGAGCY
81561 T A S ACCTGCTCAGGCACCACAGAGGATCTAGGTCTCTGGCTCCCCATACCTGGA
81561 T C S ACCTGCTCAGGCACCACCGAGGATCTAGGTCTCTGGCTCCCCATACCTGGA
81561 IS [AC] CTAGGCTCTCCATCTTCCCTTGAGAGCTGGCTCCCCACCCCAACCTGCTCAGGCACCAC|AC|GAGGATCTAGGTCTCTGGCTCCCCATACCTGGACCCACATGGGTGGGTG CCTGTTGCATG FLI14800
81565 I A AGTATTTGATCATTATCTAAAAACAAAGTTTAGGAAGCTCTCAGGATTTTTTTC
81565 P A A CGCGCCGAGGAAAAATCCCTAAAACAGGTTCTY
81565 P T A ATGACGTGGCAGACTAAAATCCCTAAAACAGGTTCTY
81565 T A A ATTAAGAACCTGTTTTAGGGATTTTAAAAAAATCCTGAGAGCTTCCTAAACTTTGTTTTTAGATAATGATCAAATACTTC
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81602 I S GCTCCAGGACAGACACCCCCTGACTGTGTTA
81602 P A S CGCGCCGAGGTCCCTGGCCCCCY
81602 P G S ATGACGTGGCAGACCCCCTGGCCCCY
81602 T A S AGGTGGGGGCCAGGGAAACACAGTCAGGGGGTCTCTCCTGGAGCAG
81602 T G S AGGTGGGGGCCAGGGGAACACAGTCAGGGGGTCTCTCCTGGAGCAG
81602 IS [AG] ACCTGAAGCAGACAGTGTGTGTGTGTGTGCGTAAGAGAGAGAGAGGTGGGGGCCAGGG|AG|AACAGTCAGGGGGTCTCTCCTGGAGCAGCTGACATGTCTGCCCA GTATTGAAGAAGG
81660 I A GCTGCAGCGTGAGGAGGGATGCAGA
81660 P C A ATGACGTGGCAGACCAGCTCCCCAGCCY
81660 P T A CGCGCCCAGGTAGCTCCCCAGCCTY
81660 T C A GTGGAGCTGGGGAGCTGCTGCATCCCTCCTCACGCTGCAGCGA
81660 T T A GTGGAGGCTGGGGAGCTACTGCATCCCTCCTCACGCTGCAGCGA
81660 IS [CT] TCCGGACCCCAAGGCTCCTCAGCCCTGACCTCTTCGCTGCAGCGTGAGGAGGGATGCAG|CT|AGCTCCCCAGCCTCCACGTGGCGCGTGGCCAGCCCCAGCCCCCTTACC GTAGTGCTTGT
81670 I A CCCGCCCAGGGCTGGCCAC
81670 P T A CGCGCCGAGGTGCCCCCAGAGTCAY
81670 P G A ATGACGTGGCAGACGGCCCCAGAGTCY
81670 T T A ACTGTGACTCTGGGGGCCATGGCCAGCCCTGGGCGGGCC
81670 T G A ACTGTGACTCTGGGGGCCTGGCCAGCCCTGGGCGGGCC
81670 IS [TG] ATCACAGTCACCCTCAGCCGCATCAGTGAAGTCACAGCCAGGCCCGCCCAGGGCTGGCCA|TG|GCCCCCAGAGTCACAGTGTCTATGCTCTCCTGGCCCAGGGCCCCAGGA GCTCTCCTTCC
81755 I A CCTTTAATATTTGTACAAGTAAATATCTCCATTTGACAATAATGGAAATTGTCAGAAT
81755 P G A ATGACGTGGCAGACGTTTTCATTTCTCACAATTTAGCY
81755 P A A CGCGCCTAGGATTTTCATTTTCTCACAATTTAGCY
81755 T G A GTGAGCTAAATTGTGAGAAAATGAAAACTTCTGACAATTTCCATTATTGTCAAATGGAGATATTTACTTGTACAAATATTAAAGGTT
81755 T A A GTGAGCTAAATTGTGAGAAAATGAAAATTTCTGACAATTTCCATTATTGTCAAATGGAGATATTTACTTGTACAAATATTAAAGGTT
81755 IS [GA] TAACCTTTAATATTTGTACAAGTAAATATCTCCATTTGACAATAATGGAAATTGTCAGAA|GA|TTTCATTTCTCACAATTTAGCTCACTCACAATGGCTGTCAGACAG CCGGATGATCTGA
81838 I A TGCTGGGGCGGGGTTCCTGCT
81838 P G A ATGACGTGGCAGACGGGGCTGGAAGCCT
81838 P A A CGCGCCCAGGAAGGCCTGGAAGCCY
81838 T G A TCCAGCCTTCCAGCCCCGCAGGAACCCCGCCCCAGCAAG
81838 T A A TCCAGCCTTCCAGCCCTGCAGGAACCCCGCCCCAGCAAG
81838 IS [GA] CTTGTCCTTGGGACGAGACTGCTGAGGGAGTCCCTCGGCCTTGCTGCGGCCGGGGTTCCTGC|GA|GGGCTGGAAGCCTGGAATCCAGAAACGACCTCCAGCTGCTCCTCTGT GTTCTTCCTCAAG
81896 I S TCTCCTTAGGAGCAGAGGTGTAAACTCCTTGATGAGA
81896 P A S CGCGCCGAGGTTGGGGGAGCCTGY
81896 P G S ATGACGTGGCAGACCTGGGGGAGCCTGY
81896 T A S TCTCCAGGCTCCCCAACTCATCAAGGAGTTTACACCTCTGGCTCCTAAAGGAGACG
81896 T G S TCTCCAGGCTCCCCAGCTCATCAAGGAGTTTACACCTCTGGCTCCTAAAGGAGACG
81896 IS [AG] AGACGCTCAGGACACGTCTGCTGTCCCTGGGCCTTGCACAGAACTCTCCAGGCTCCCCCA|AG|CTCATCAAGGAGTTTACACCTCTGGCTCCTAAAGGAGACGGAGTCTTT CTTGGGCAGAGC
81916 I A CTGACATACAACGGGGCTGGGTATTCCCT
81916 P G A ATGACGTGGCAGACGGCGGGTGCTTACCY
81916 P A A CGCGCCCAGGAGCGGGTGCTTACCY
81916 T G A TGGAGGTAAGCACCGGCGGAATACCCACCCGCTGGTATCTCAGCC
81916 T A A TGGAGGTAAGCACCCGCTGGGAATACCCACCCGCTGGTATCTCAGCC
81916 IS [GA] GCACGCACACCTCATGGACAGGCCGCCAGGGCTGAGATACCAGCGGGGTGGGTATTCCC|GA|GCGGGTGCTTACCTCCAACAGTGTCTTGTCAGCAAAGGCCATGATGC CCTCAAAGATGAT
81952 I A GTTCATGGCTTTGAGGTCCGGAATCATGTCCAAA
81952 P C A ATGACGTGGCAGACCCTGCATTTCTCTGGTGT
81952 P T A CGCGCCGAGGTCTGCATTTCTCTGGTGAY
81952 T C A AAAATCACTACAGAAAATGCAGGTTGGACATGATTCCGGACCTCAAAGCCATGAACCC
81952 T T A AAAATCACTACAGAAAATGCAGGATTGGACATGATTCCGGACCTCAAAGCCATGAACCC
81952 IS [CT] GAGGAAGGCTGTCTTGGCTTTAAGGGGGTTCATGGCTTTGAGGTCCGGAATCATGTCCAAJCTJCTCATTTCTCTGGTGATTTTGCAGGAATGATCGTGTGAGGCAAGT CAAGTTCTAGGAAA FER1L3
82002 I S CACACGACTTCACTTAAGTACATACATGTCATCGTATCATACATAAGATGCATT
82002 P C S ATGACGTGGCAGACGTGTGTCATCTTAACATAAATGCY

FIGURE 129C

FIGURE 129C







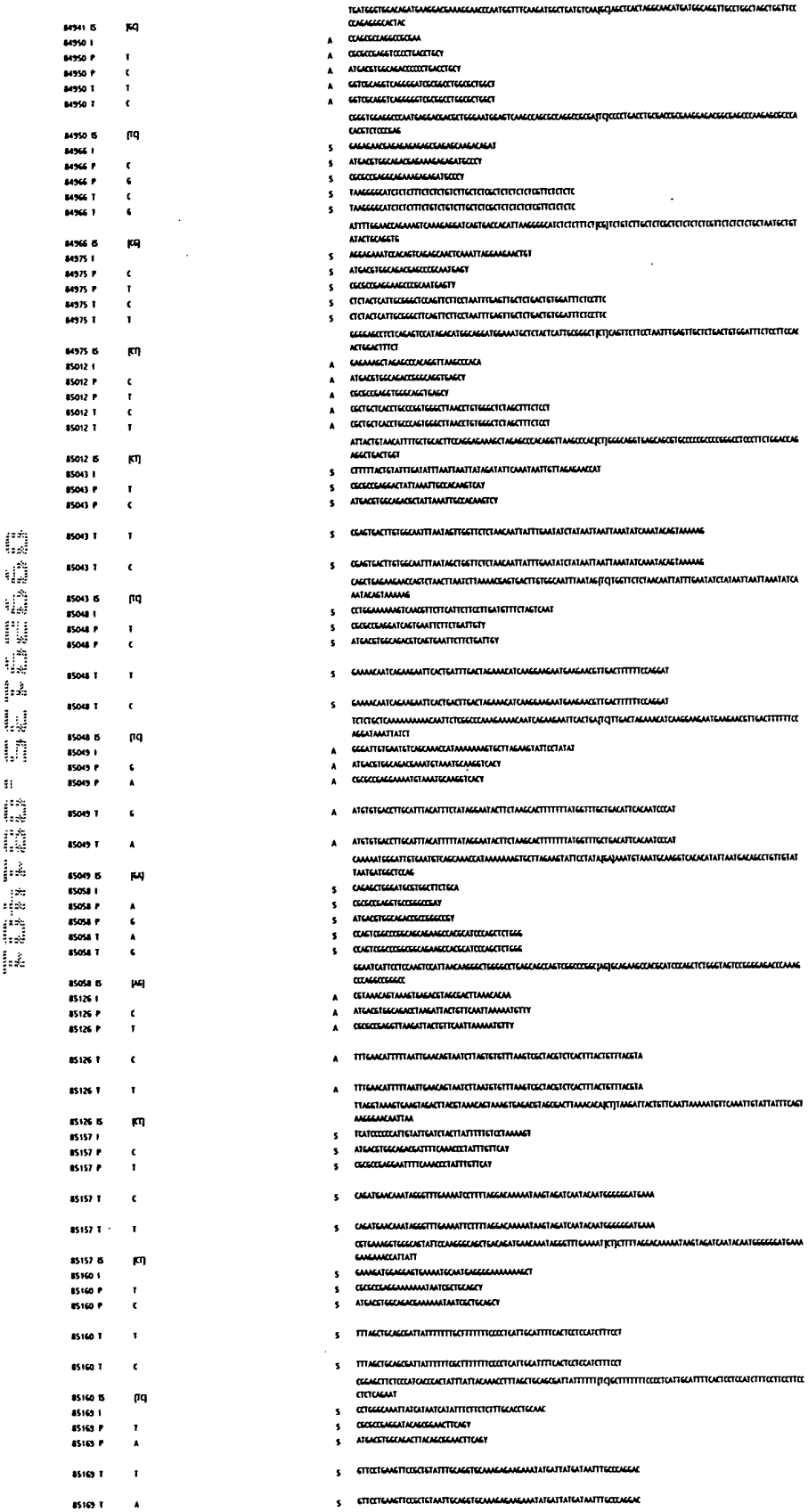
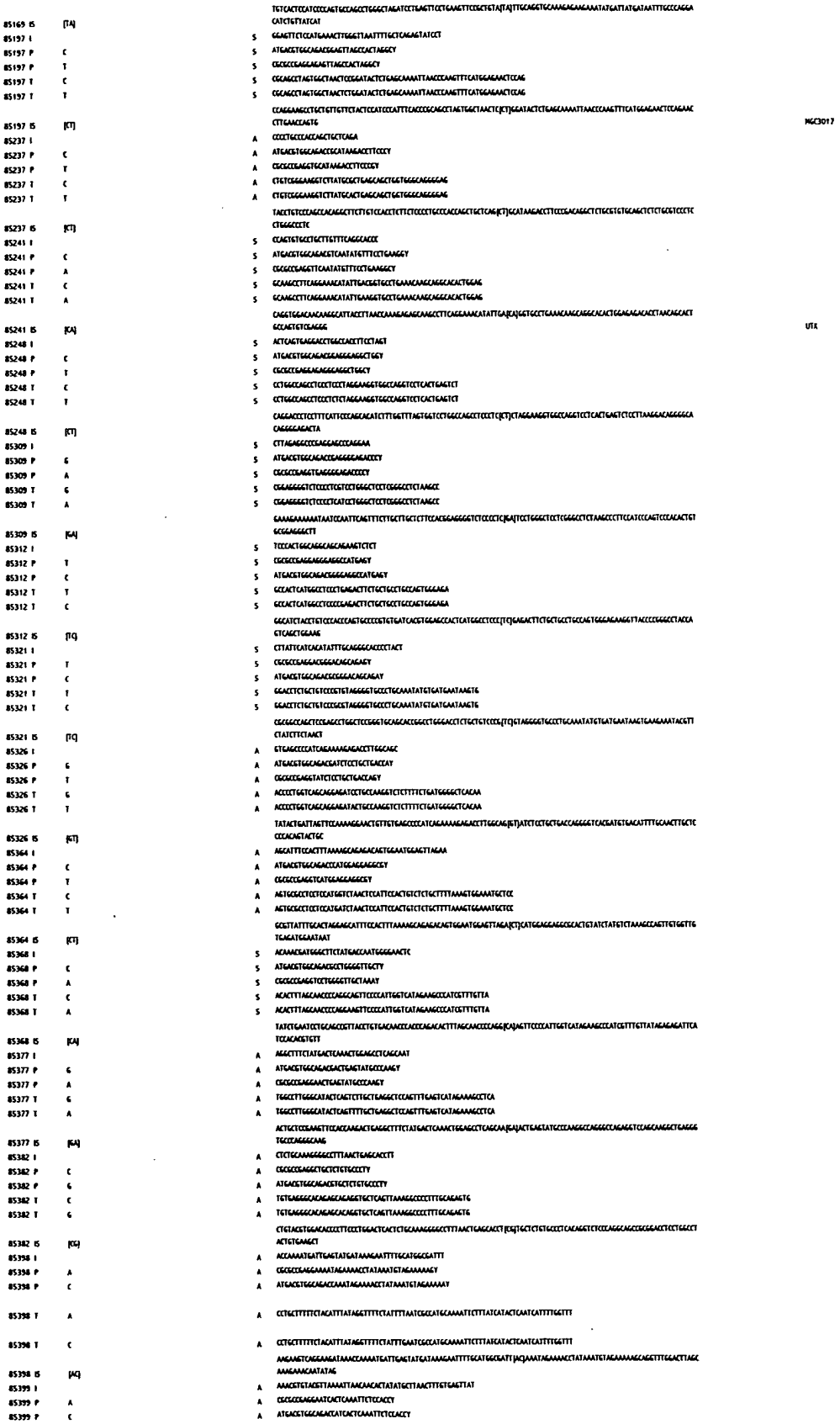
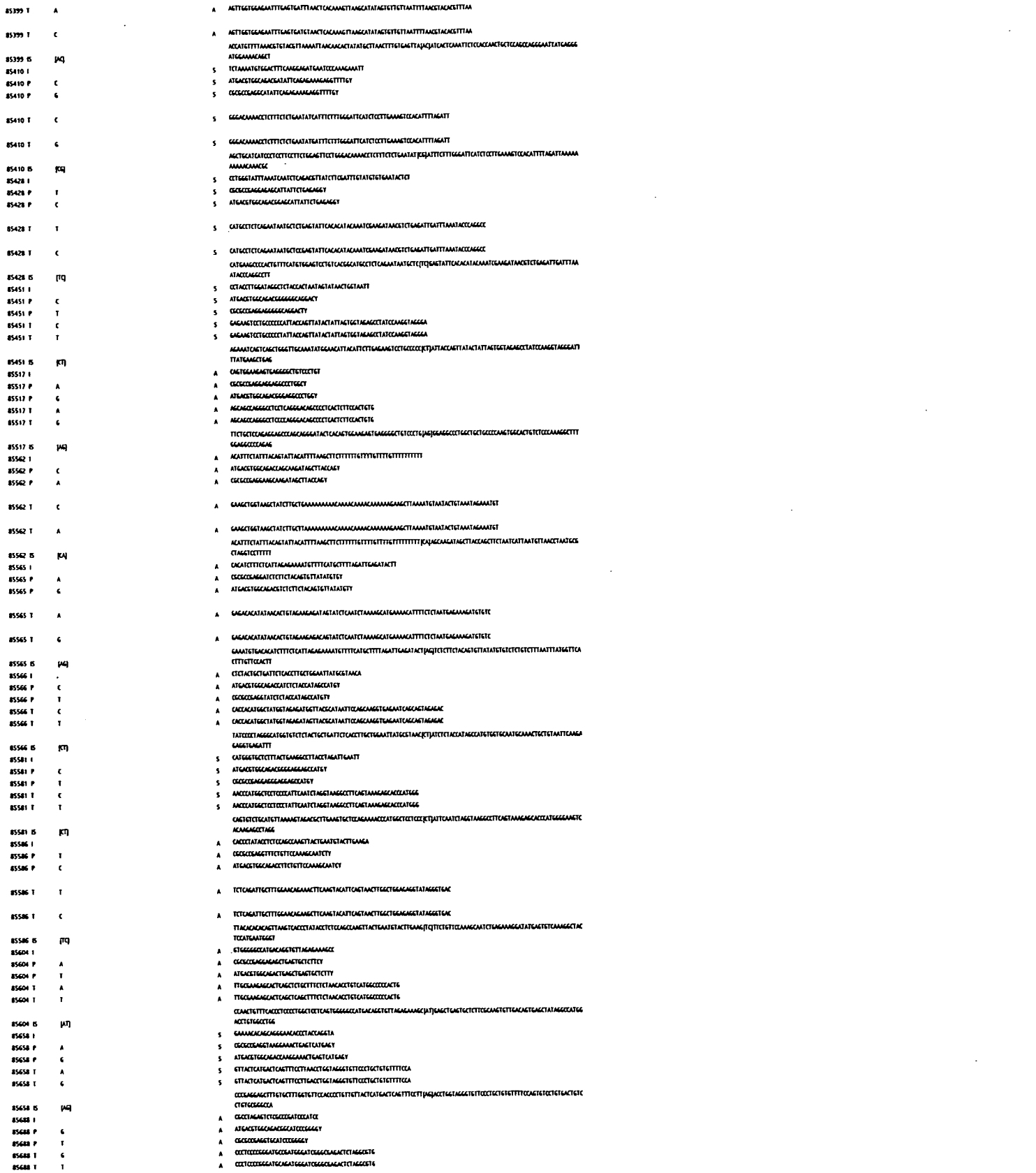
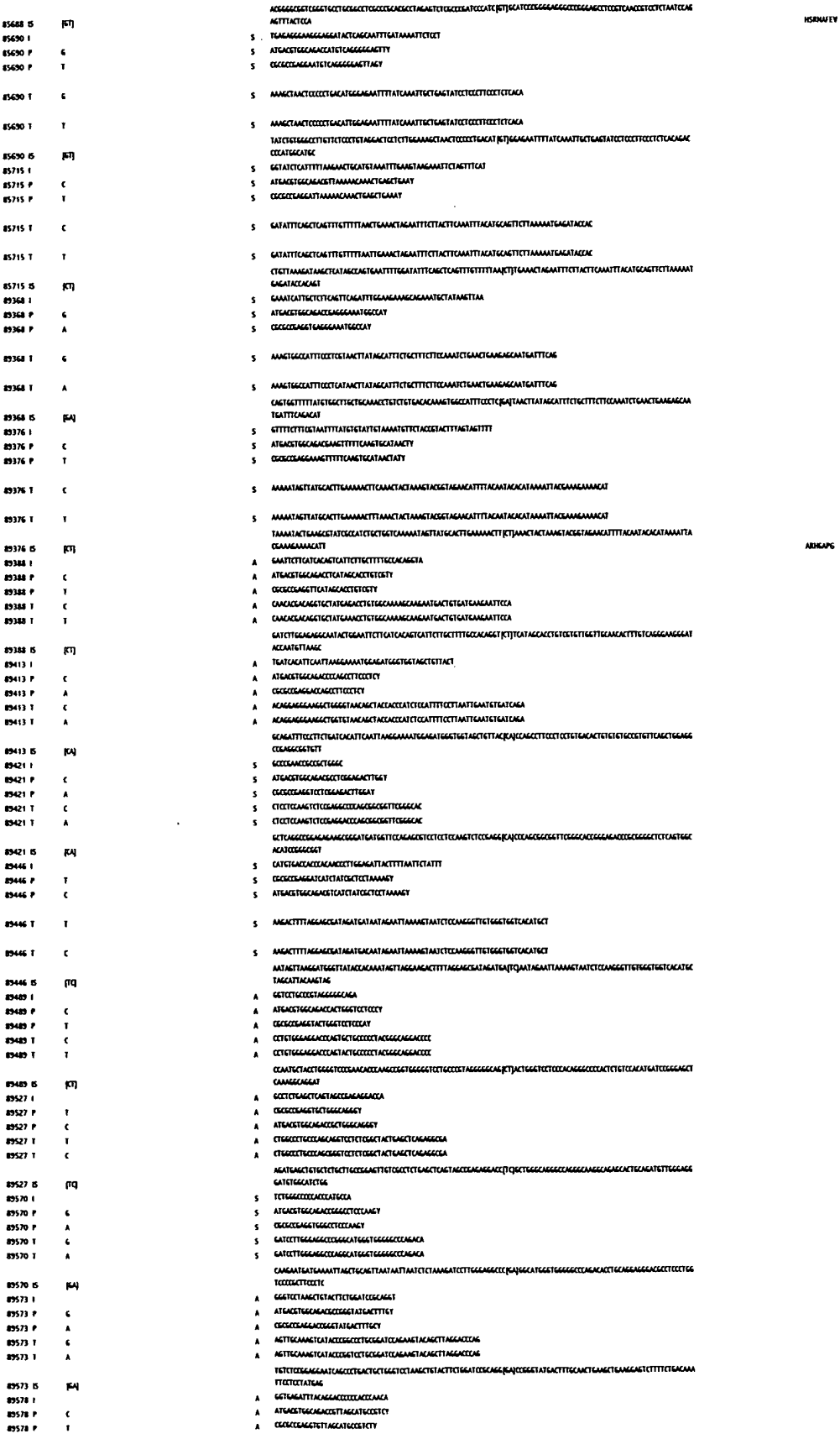
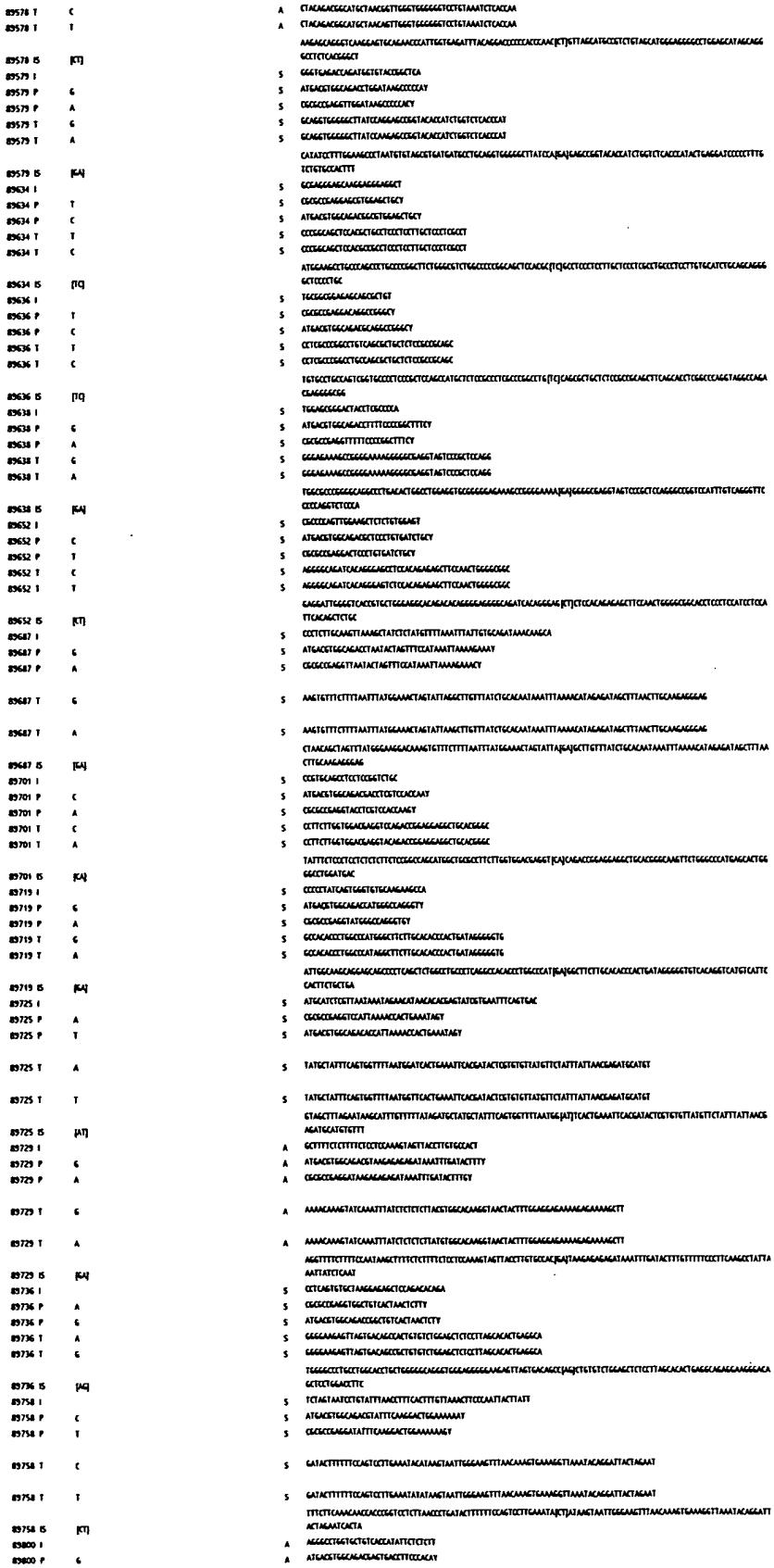


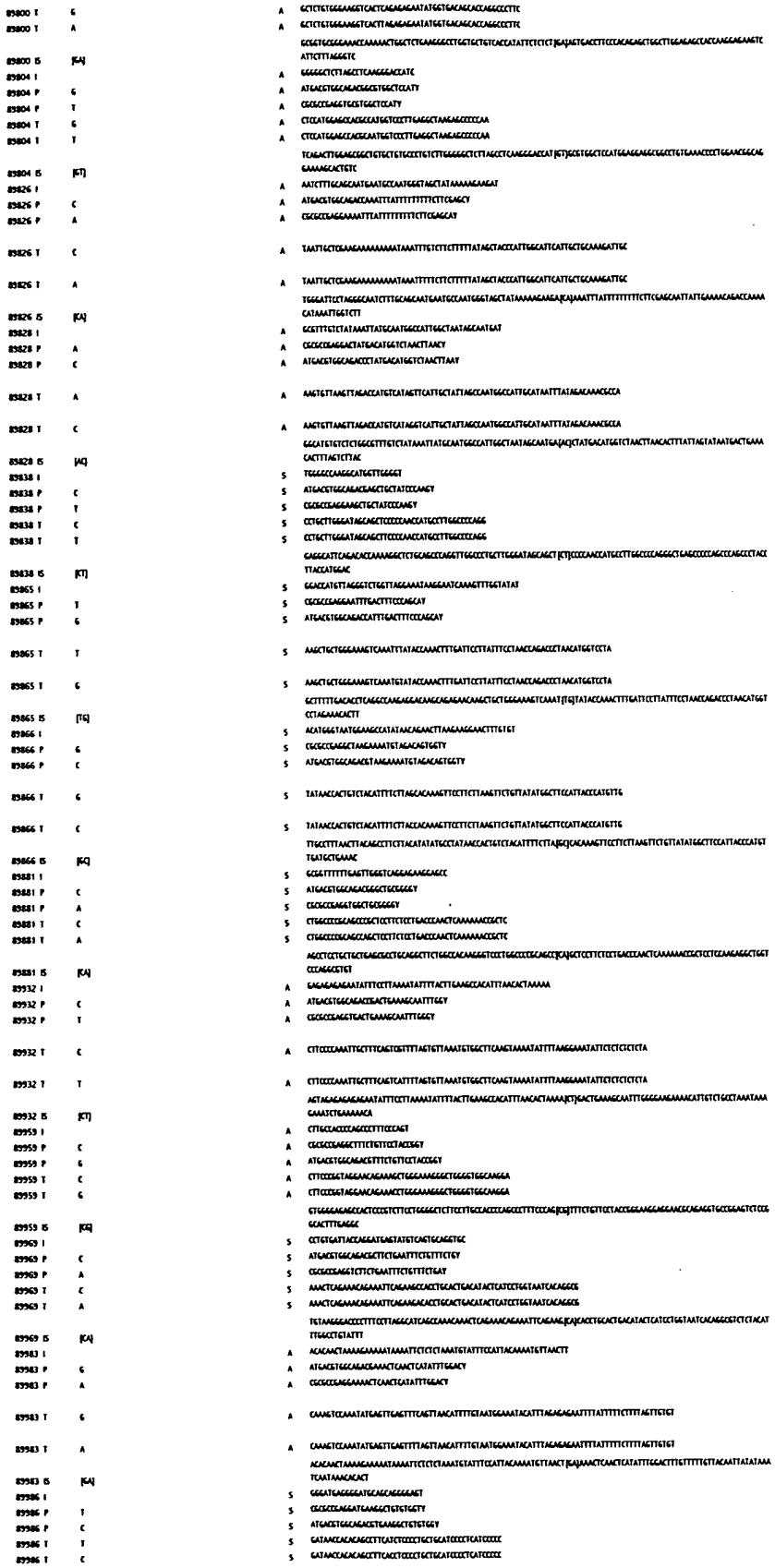
FIGURE 129C











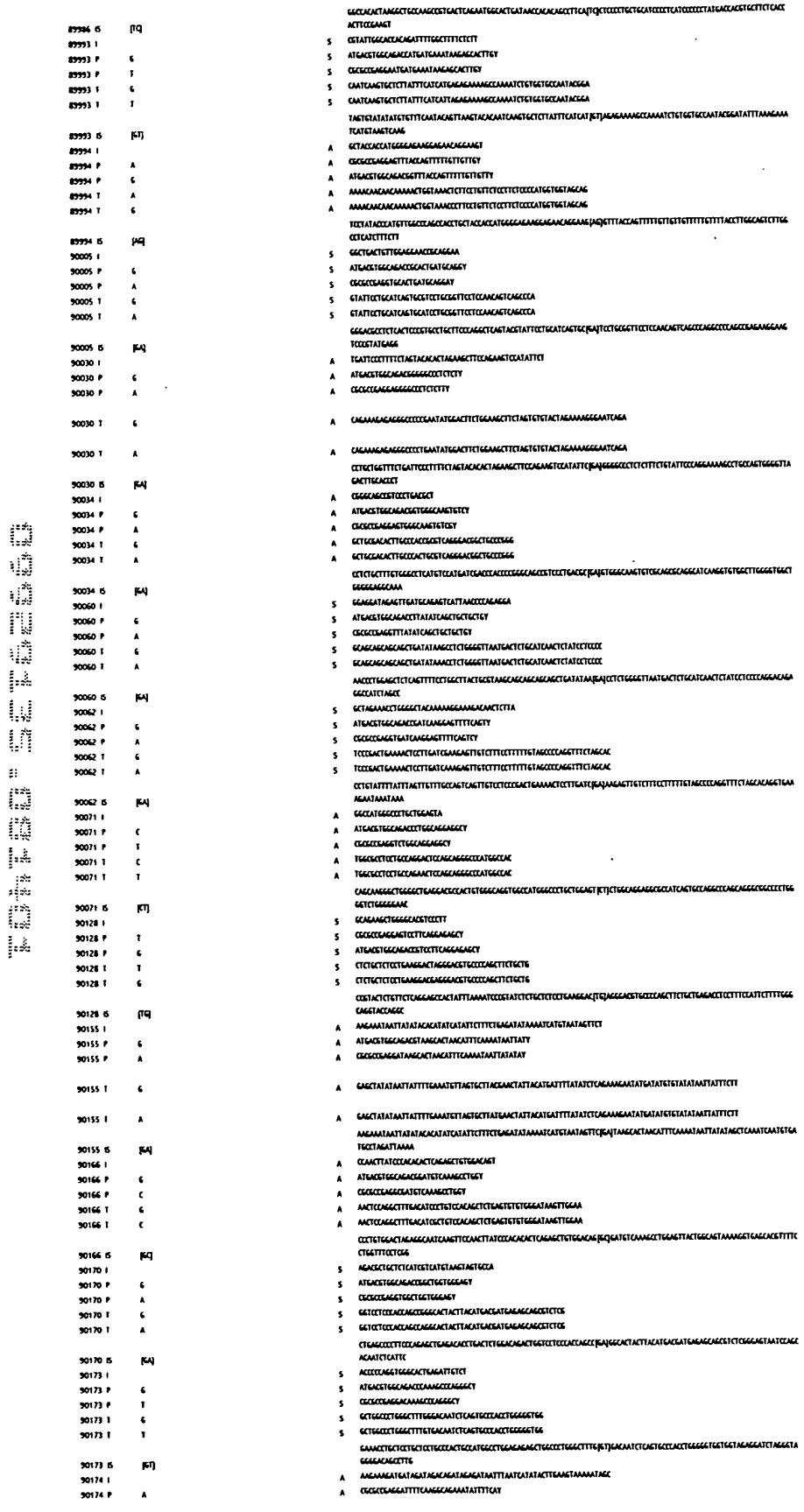
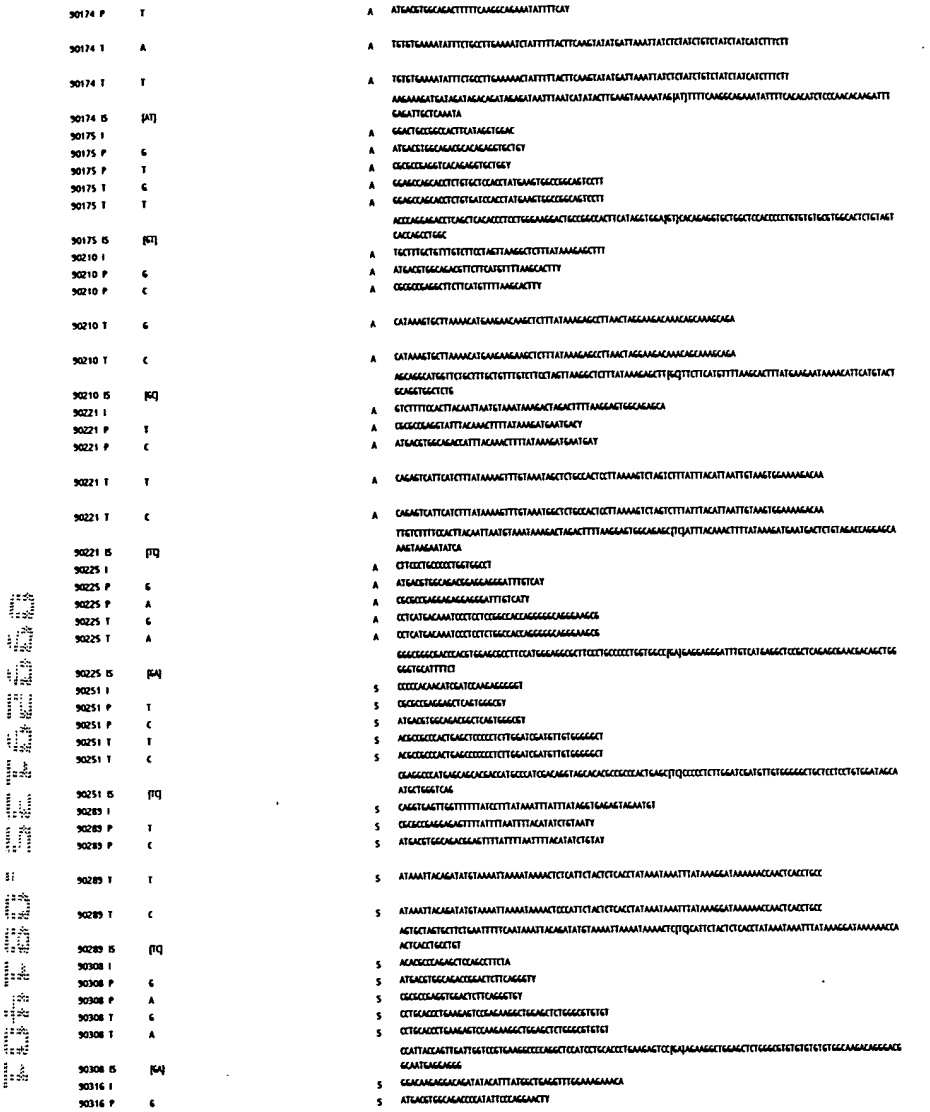


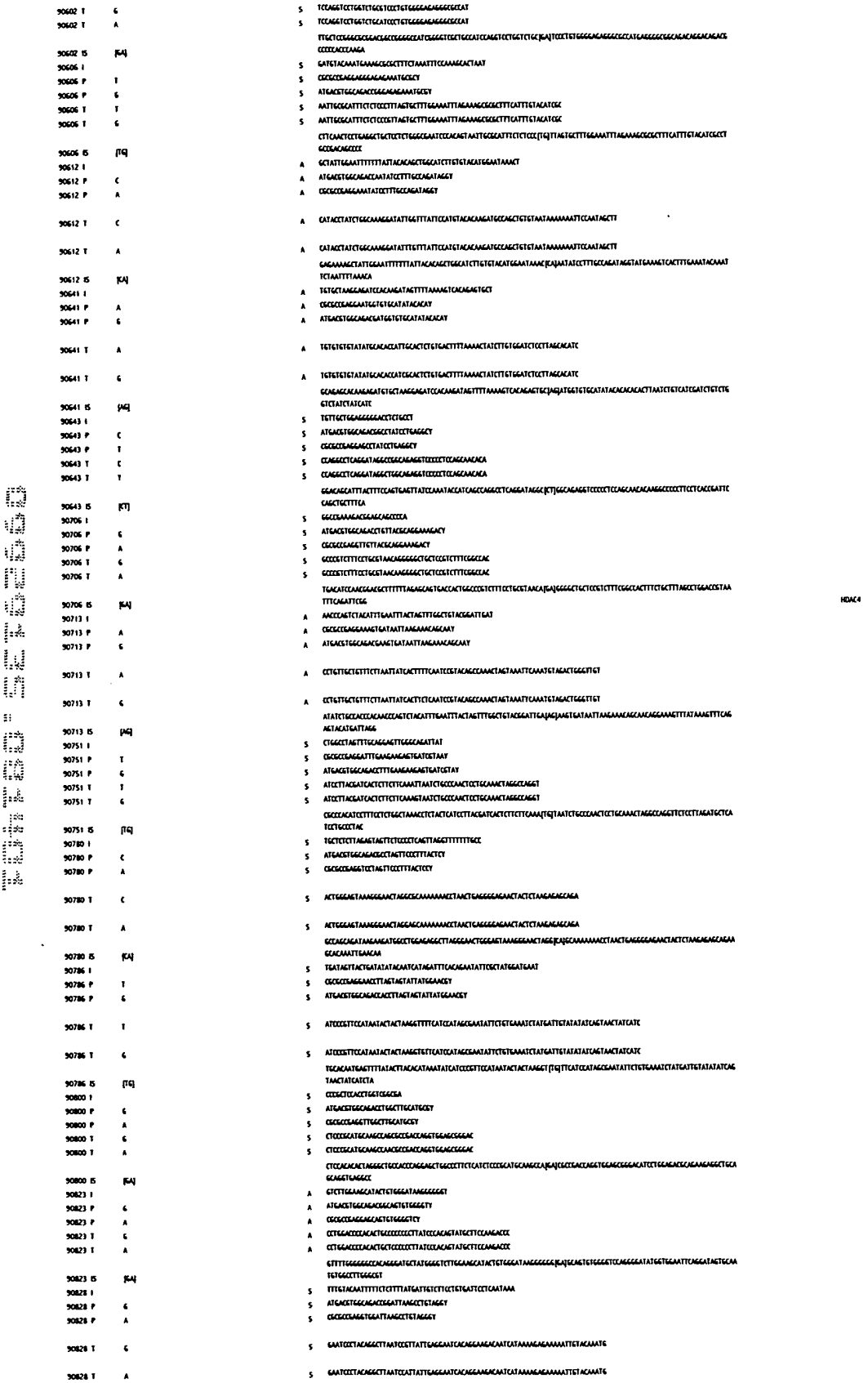
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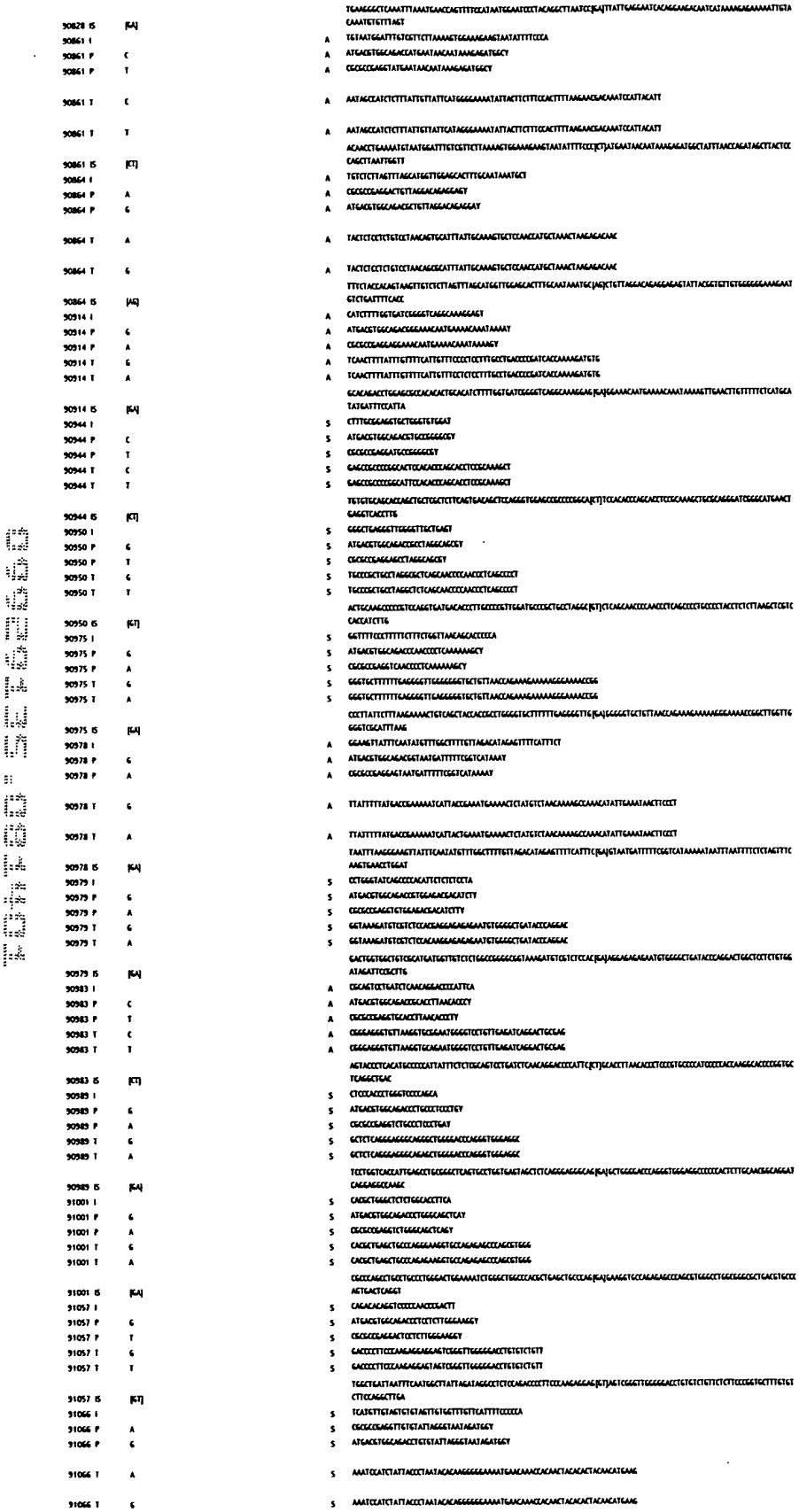


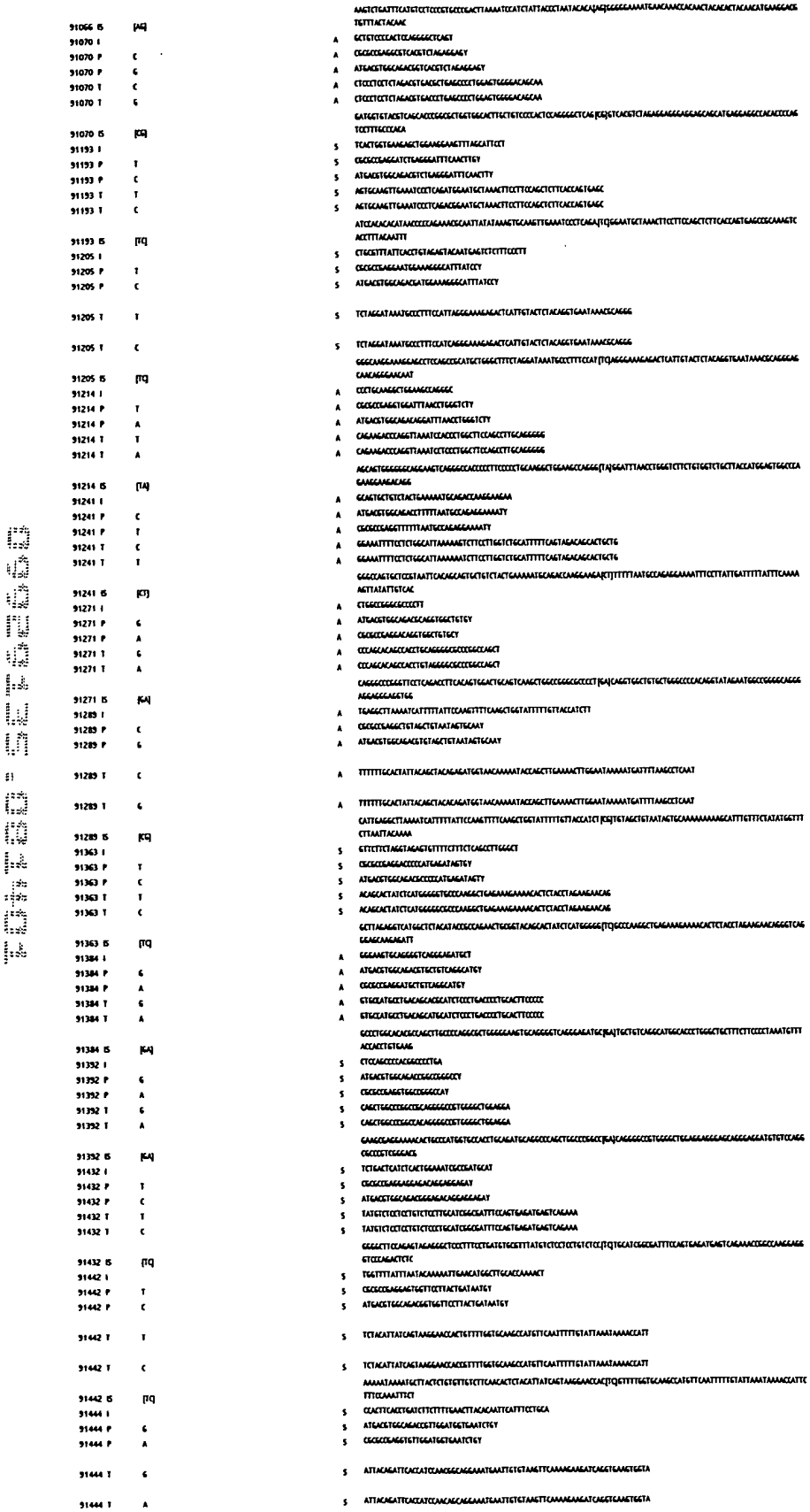


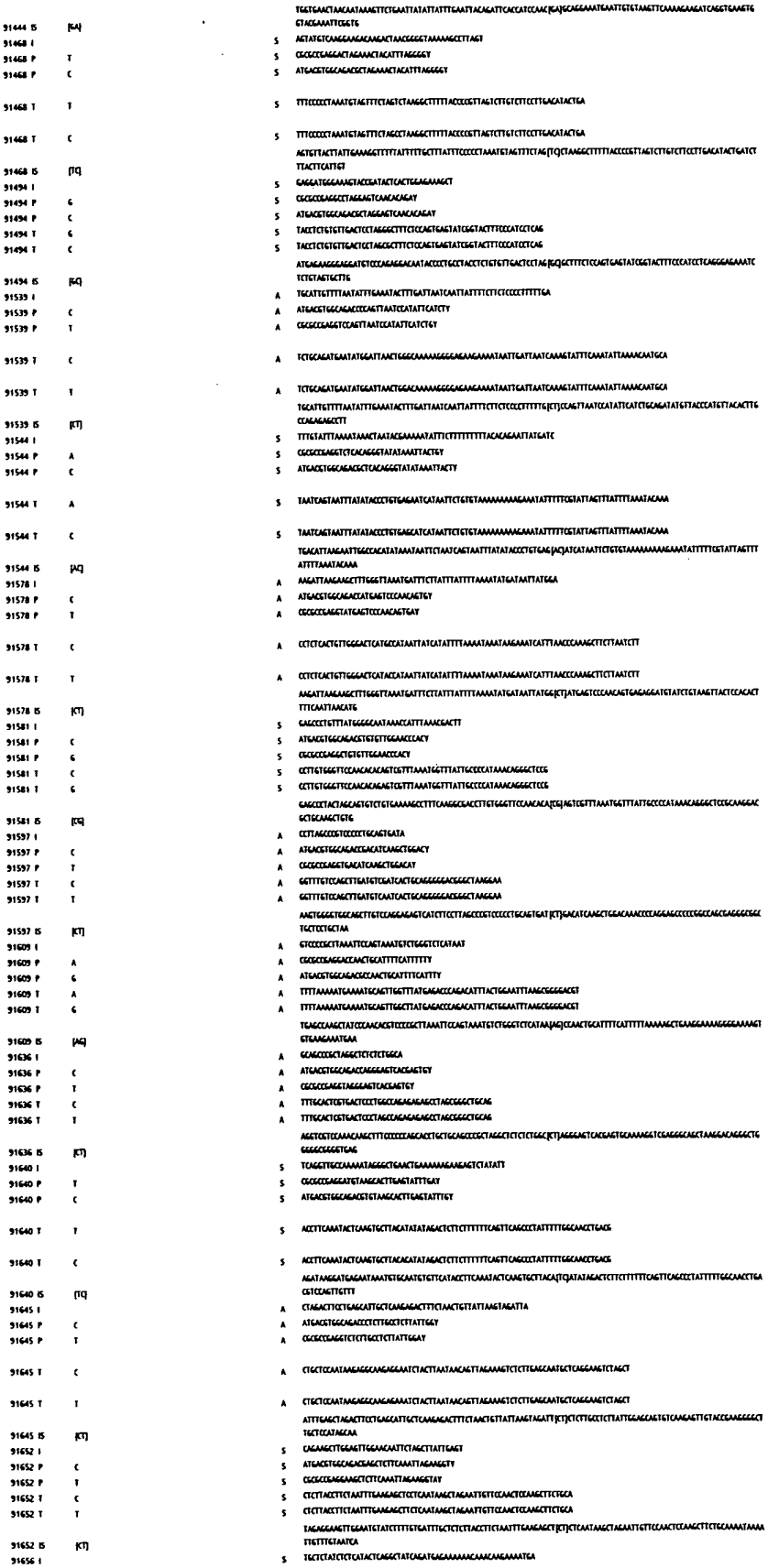
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90408 I		A	TTTGTGAGTGCACCCCAACATTTTCTGGGAAAAAGTTTC
90408 P	G	A	ATGACGTGGCAGACGTACATCGAGTTAGGATGATTY
90408 P	T	A	CGCGCCGAGGTTACATCAGTTAGGATGATTCY
90408 T	G	A	CTCAGAATCATCCTAACTGGATGTACAAACTTTTCCCAGAAAATGTTGGGGTGCACTCACAAAC
90408 T	T	A	CTCAGAATCATCCTAACTGGATGTAAAAACTTTTCCCAGAAAATGTTGGGGTGCACTCACAAAC
90408 IS	(GT)		GGAGAAAATGAAGTAAGAGGGTTTTGTGAGTGCACCCCAACATTTTCTGGGAAAAAGTTT(GT)TACATCCAGTTAGGATGATTCTGAGTTTTAAGAGCAGTTACCTTAC GAATATTGATACTG
90414 I		A	GTTTCATTGTTTCTTACATTTTCCTCTTTATTGGAGTCTAAAAATATTGCAT
90414 P	A	A	CGCGCCGAGGAAGTATGTTTATTGTAAGAAGACAGY
90414 P	G	A	ATGACGTGGCAGACGAGTATGTTTATTGTAAGAAGACAGY
90414 T	A	A	ACATCTGTCTTCTTACAATAAACATACTTTGCAATATTTTTAGACTCCAATAAGAAGAAAATGGTAAGAAACAATGAAACCG
90414 T	G	A	ACATCTGTCTTCTTACAATAAACATACTCTGCAATATTTTTAGACTCCAATAAGAAGAAAATGGTAAGAAACAATGAAACCG
90416 IS	(AG)		AAAAATCGGTTTCATTGTTTCTTACACATTTCTTCTTTTATTGGAGTCTAAAAATATTGCA(AG)AGTATGTTTATTGTAAGAAGACAGATGTGGAGATGAATAAAGAATG ACAGTAGTAAGTTT
90448 I		A	GCCCATTCCCTCCACTGGTCAAAGGCAGA
90448 P	C	A	ATGACGTGGCAGACCGAGCAGGCTTGTCY
90448 P	T	A	CGCGCCGAGGTGAGCAGGCTTGTCCY
90448 T	C	A	CCTGGGACAAGCCTGCTCGCTGCCTTTGACCAGTGGAGGCAATGGGCCG
90448 T	T	A	CCTGGGACAAGCCTGCTCACTGCCTTTGACCAGTGGAGGCAATGGGCCG
90448 IS	(CT)		GCAGAGAGTAGTCACAGCAGGACTTGCTGTCGCCCCATTCCCTCCACTGGTCAAAGGCAG(CT)GAGCAGGCTTGTCCCAGGCTCAGGAACAACGTGGTCAACTAGAAAGA AACAGACATATGT
90464 I		A	CACAGTTTGTGCCCACACAAGAAACAGT
90464 P	G	A	ATGACGTGGCAGACAAGGAAACAGACCCAAGY
90464 P	A	A	CGCGCCGAGGAAGGAAACAGACCCAAGY
90464 T	G	A	CTTCCTTGGGTCTGTTTCCTTCCTGTTTCCTTGTGTGGGCACAAACTGTGTT
90464 T	A	A	CTTCCTTGGGTCTGTTTCCTTCTGTTTCCTTGTGTGGGCACAAACTGTGTT
90464 IS	(GA)		AATAGCGACAAGACATACAAAGATGAATAAAACACAGTTTGTGCCCACACAAGGAAACAG(GA)AAGGAAACAGACCCAAGGAAGCACCATTGCAGTACAATGGACAGA GGACTAATAGTGTCA
90487 I		S	CAGTTGTAAAAAGCCATCAGATAAATCCCACAATGAAGAAATT
90487 P	G	S	CGCGCCGAGGCCTATAAATATGATGTAGTAGGGAAY
90487 P	C	S	ATGACGTGGCAGACGCTATAAATATGATGTAGTAGGGAY
90487 T	G	S	AATCTTCCCTACTACATCATATTTATAGGATTTCTTCATTGTGGGATTTATCTGATGGCTTTTTACAACTGAA
90487 T	C	S	AATCTTCCCTACTACATCATATTTATAGCATTTCTTCATTGTGGGATTTATCTGATGGCTTTTTACAACTGAA
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90502 I		A	CGCAGGTCAAGGACTGCAACTGGCGA
90502 P	C	A	ATGACGTGGCAGACCCGGTAGTCGTTGGCY
90502 P	T	A	CGCGCCGAGGTCGGTAGTCGTTGGCY
90502 T	C	A	CGAAGCCAACGACTACCGACGCCAGTTGCAGTCCTTGACCTGCGAC
90502 T	T	A	CGAAGCCAACGACTACCGACGCCAGTTGCAGTCCTTGACCTGCGAC
90502 IS	(CT)		GGCTCGCTTCACTGTGCCGCGCAGAGACTCCAGGTCGCAGGTCAAGGAACTGCAACTGGCG(CT)CGGTAGTCGTTGGCTTCGTGCTTGGCCTGCGCGAGCAGCTCCGCGTTG CGGGCAGCAGCG
90504 I		S	ACTAGGATCAAAGAATAAACAAGTACAAAACTGCTCATGCTT
90504 P	T	S	CGCGCCGAGGATGATTATGAATAAAACTTGGTGACY
90504 P	C	S	ATGACGTGGCAGACGTGATTATGAATAAAACTTGGTGAY
90504 T	T	S	CTGAGTCACCAAGTTTTATTCATAATCATAGCATGAGCAGTTTTGTACTTGTTTATTCTTTGATCCTAGTAA
90504 T	C	S	CTGAGTCACCAAGTTTTATTCATAATCACAGCATGAGCAGTTTTGTACTTGTTTATTCTTTGATCCTAGTAA
90504 IS	(TC)		ACTTTAAAGGAGGTATTATTAACAGGCACAATCTGAGTCACCAAGTTTTATTCATAATCA(TC)AGCATGAGCAGTTTTGTACTTGTTTATTCTTTGATCCTAGTAAGCAT ACAACATGCTTTC
90508 I		S	GGAAAGTTGGAAGGTGGGGGATTTAACTGAGCTTGT
90508 P	C	S	ATGACGTGGCAGACGGGGGAGGAGAGGAT
90508 P	G	S	CGCGCCGAGCGGGGAGGAGAGGAT
90508 T	C	S	CAACTCCTCTCCTCCCCCCAAGCTCAGTTAAATCCCCCACCTCCAACTTTCCCT
90508 T	G	S	CAACTCCTCTCCTCCCCCAAGCTCAGTTAAATCCCCCACCTCCAACTTTCCCT
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90574 I		S	GGAAATCGTAGATCTCTTGGATGTTGCCAAAGATGATATGT
90574 P	G	S	ATGACGTGGCAGACCTCTTTATTGAGGATCCCAGY
90574 P	T	S	CGCGCCGAGGATCTTTATTGAGGATCCCAGY
90574 T	G	S	CCCCCTGGGATCCTCAATAAAGAGCATATCATCTTTGGCAACATCCAAGAGATCTACGATTTCCAT
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90574 IS	(GT)		CTACCTGTGGCAAATGACCAGTGGTGTGCAAGCAGATCCCCCCTGGGATCCTCAATAAAGA(GT)CATATCATCTTTGGCAACATCCAAGAGATCTACGATTTCCATAACAA GTAGGTTTGTGGA
90582 I		S	GAAAAAAGAAAATGATGTATGTTGGTGCTTGCAATCAATTAAAACAT
90582 P	G	S	ATGACGTGGCAGACCCCGCGAAATTCCATTY
90582 P	T	S	CGCGCCGAGGAACCGCGAAATTCCATTCY
90582 T	G	S	AAATGAATGGAATTTCGCGGGTGTTTTAATTGATTGCAAGCACCAACATACATCATTTTCTTTTTCTC
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90595 I		A	CCTGCAAACTAGAGGGTGACCATCCCTGTTCC
90595 P	T	A	CGCGCCAAGTGCACACTGGCAAGY
90595 P	G	A	ATGACGTGGCAGACGGCACACTGGCAAGY
90595 T	T	A	CCTGCTTGCCAGTGTGCAGAACAGGGATGGTCACCCTCTAGTTTGCAGGGA
90595 T	G	A	CCTGCTTGCCAGTGTGCGCAACAGGGATGGTCACCCTCTAGTTTGCAGGGA
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90596 I		A	CCACCTTGTGGGTGGGTGTTCAGACCCT
90596 P	A	A	CGCGCCAAGCAAAGGCAGAACTGTCAGAT
90596 P	G	A	ATGACGTGGCAGACAAGGCAGAACTGTCAGT
90596 T	A	A	GTCTTCTGACAGTTCTGCCTTTGGGTCTGAACACCCACCCACAAGGTGGGG
90596 T	G	A	GTCTTCTGACAGTTCTGCCTTCGGGTCTGAACACCCACCCACAAGGTGGGG
90596 IS	(AG)		GGAGCGGGGGGAAACCCTGGGCCCTGTTCCTTCCCCACCTTGTGGGTGGGTGTTCAGACCC(AG)AAGGCAGAACTGTCAGAAGACGCCCTGCCCTTGGCCCGTGGGTGGAG TTGGGCTCCGGCC
90602 I		S	GGCGCCCTCTCCCCACAGGGAA
90602 P	G	S	ATGACGTGGCAGACCGCAGACAGGAGCCY
90602 P	A	S	CGCGCCGAGGTGCAGACCAGGAGCCY









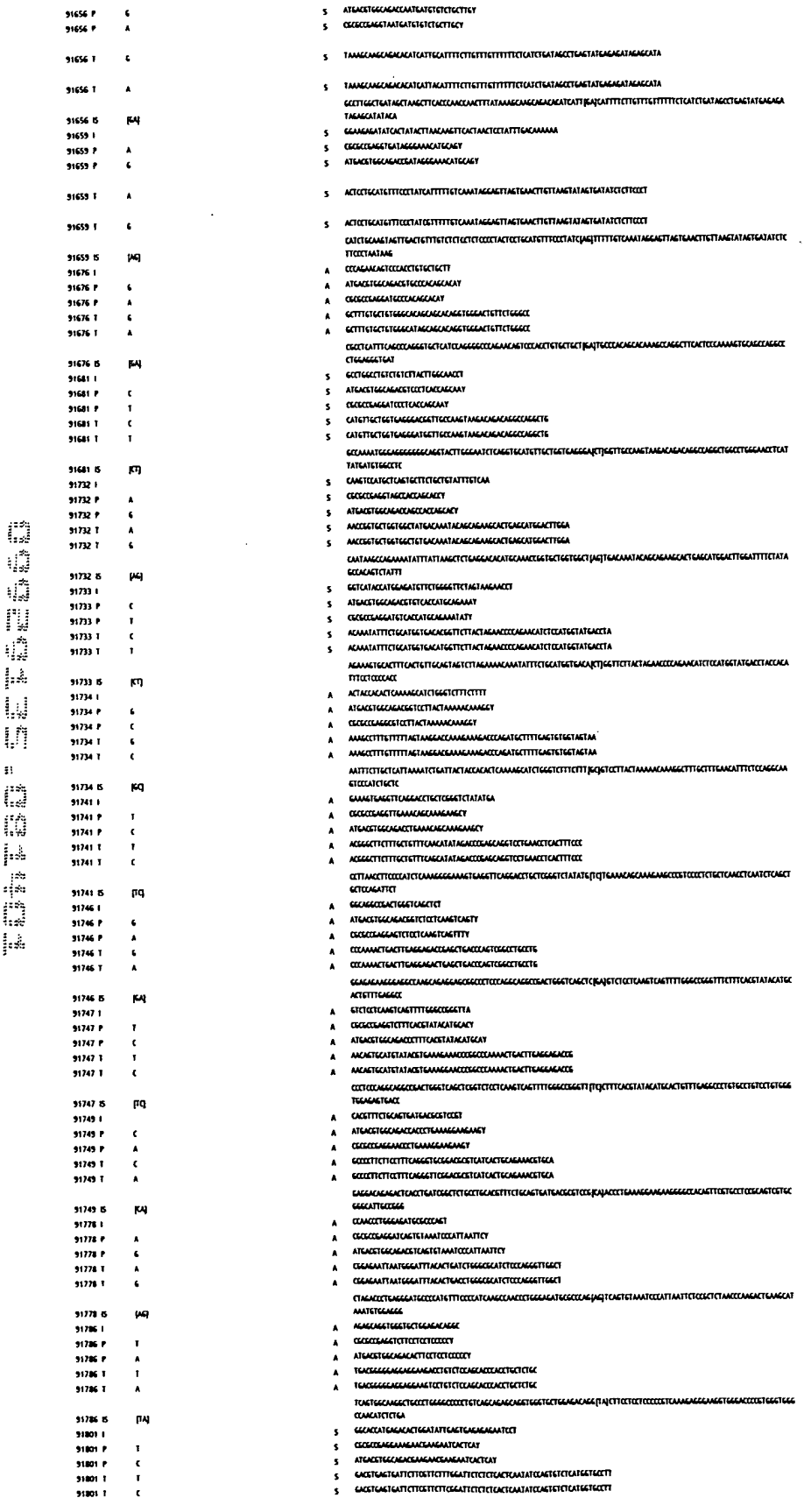
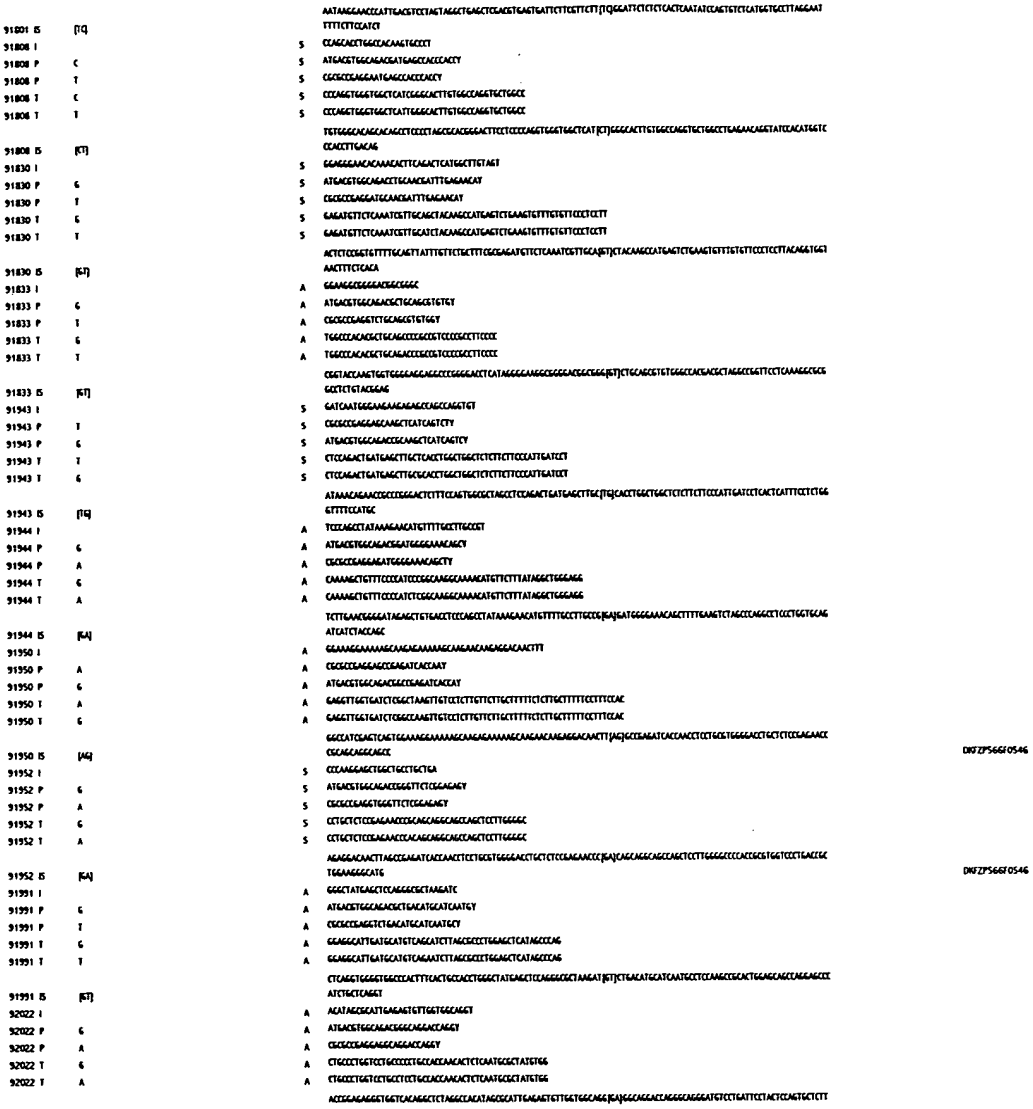


FIGURE 129C



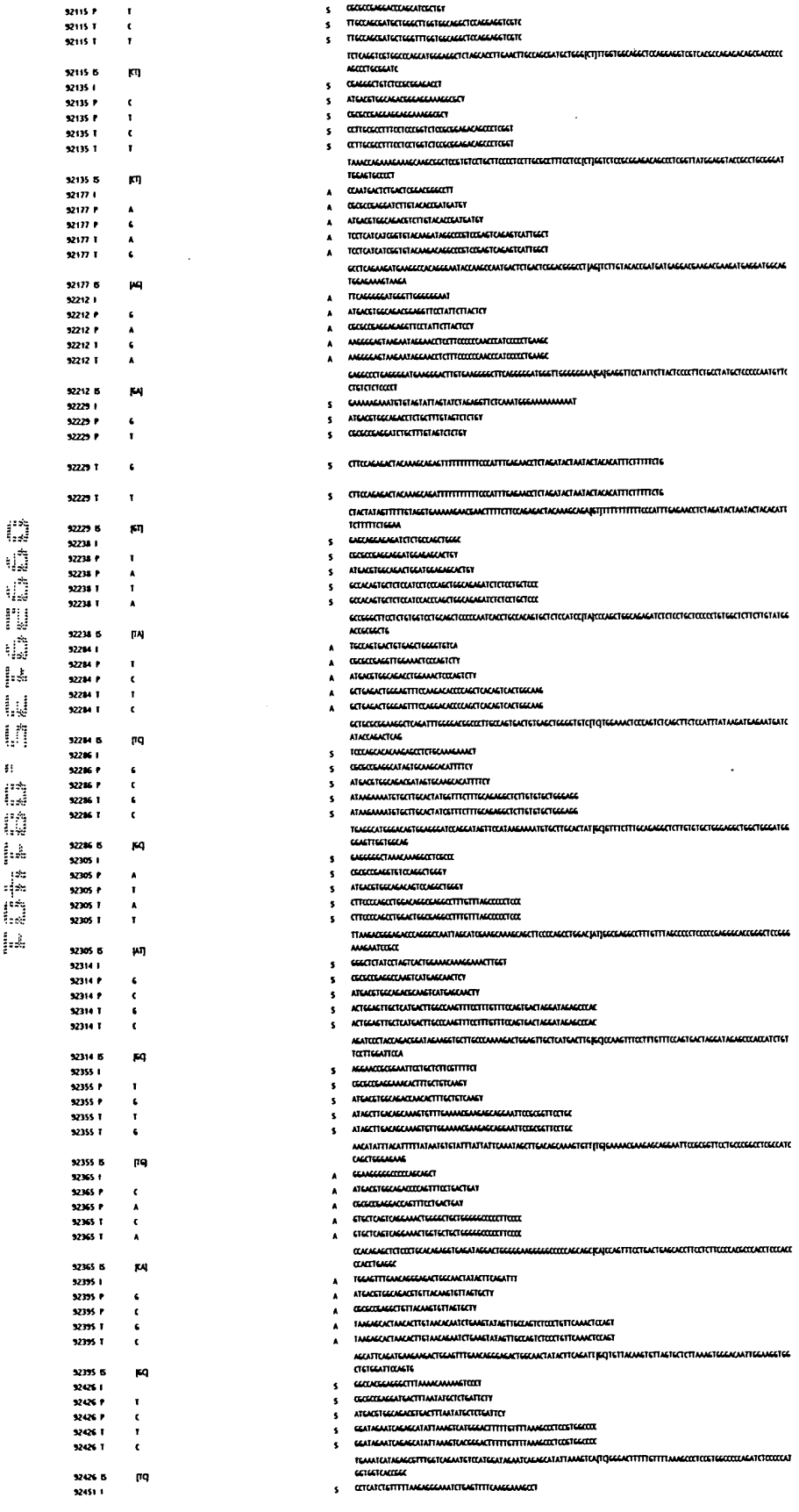
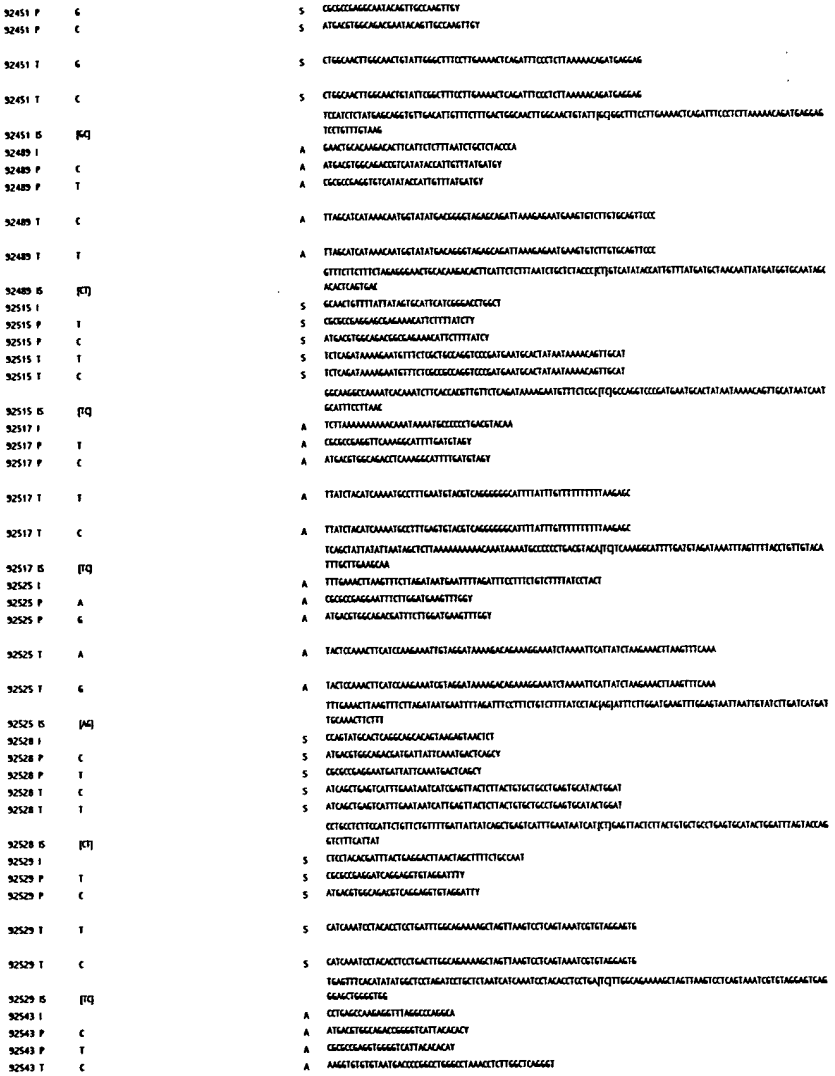


FIGURE 129C



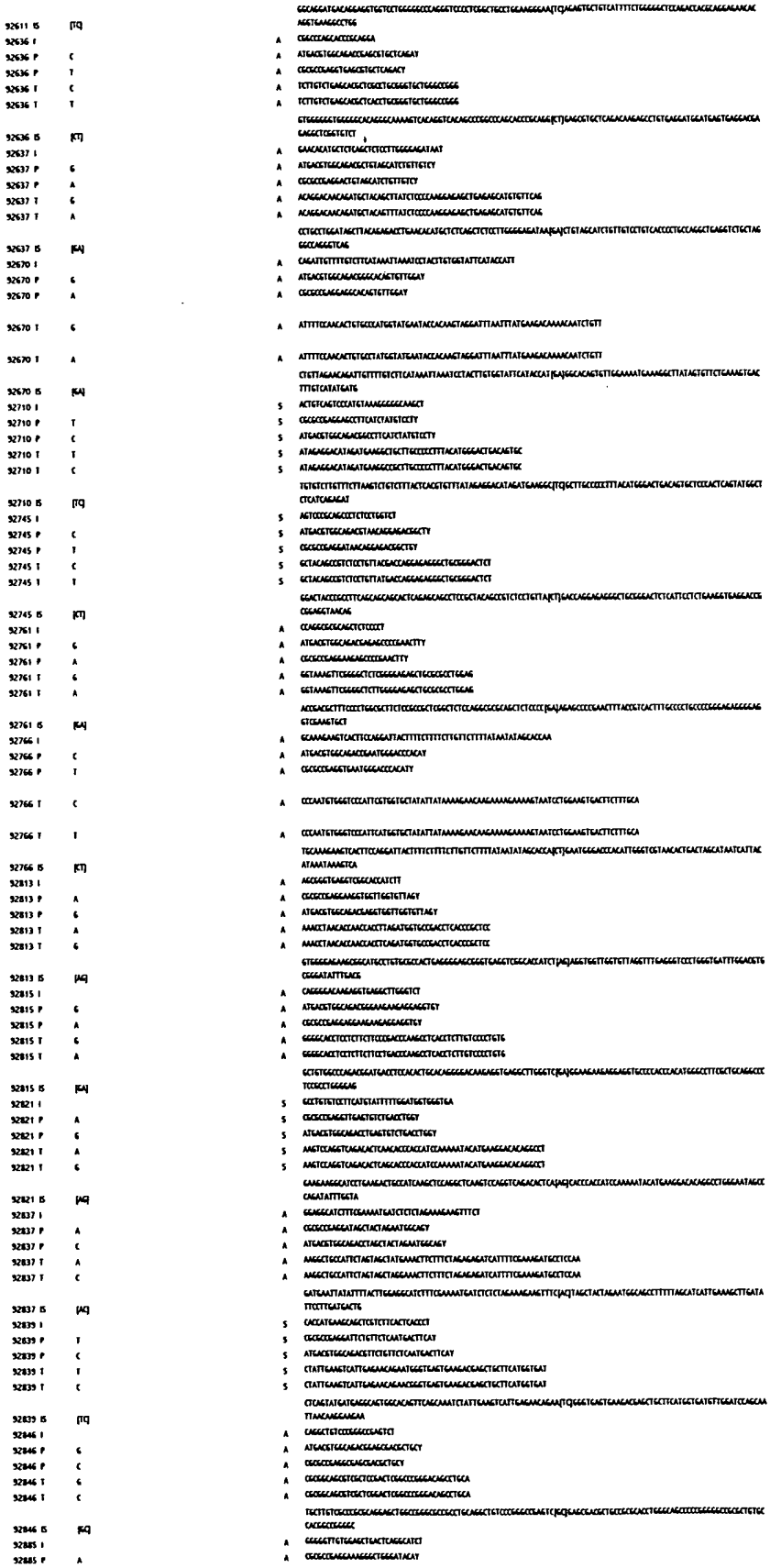


FIGURE 129C

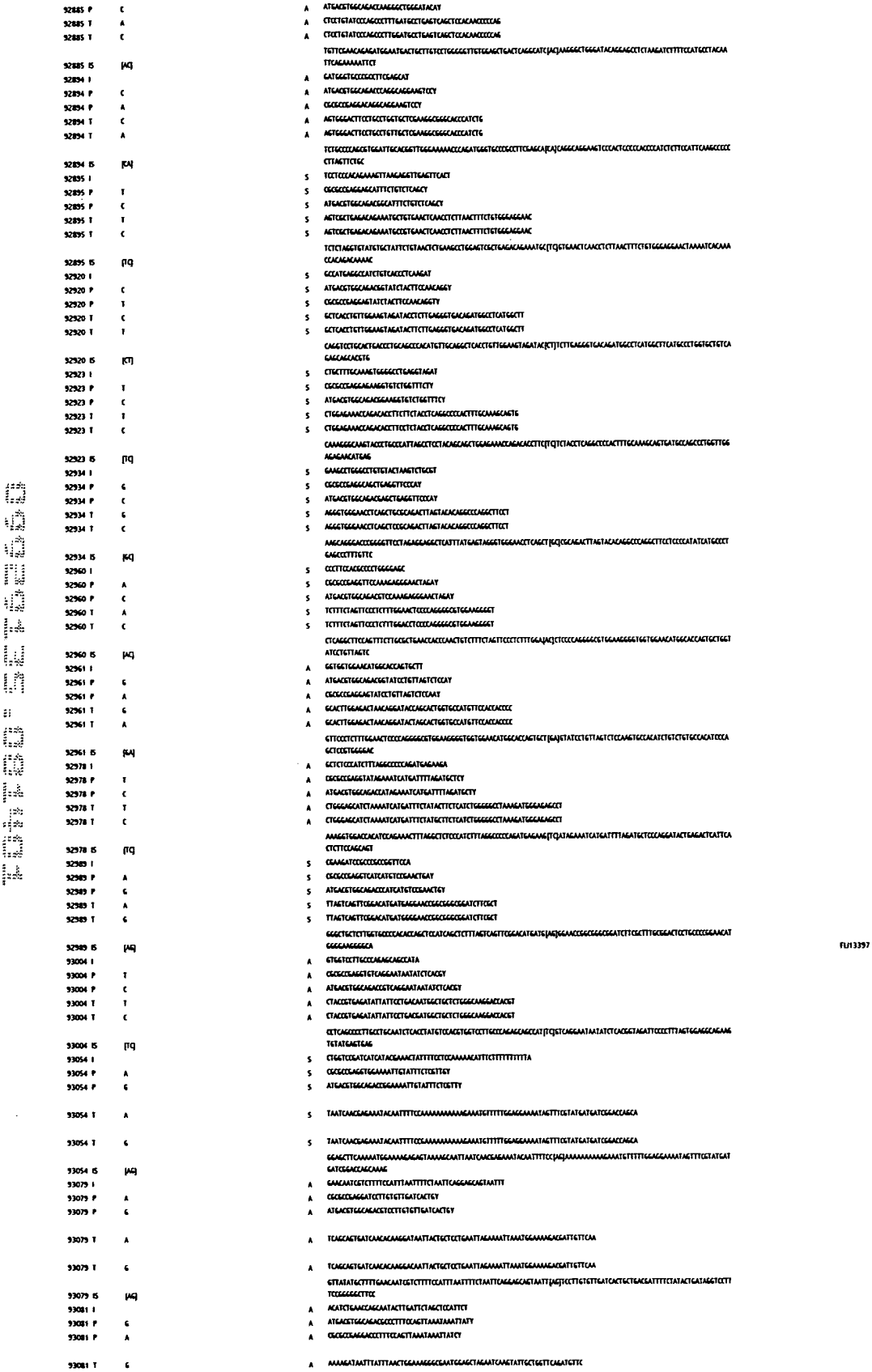
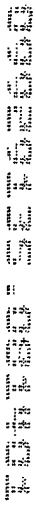


FIGURE 129C







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FIGURE 129C

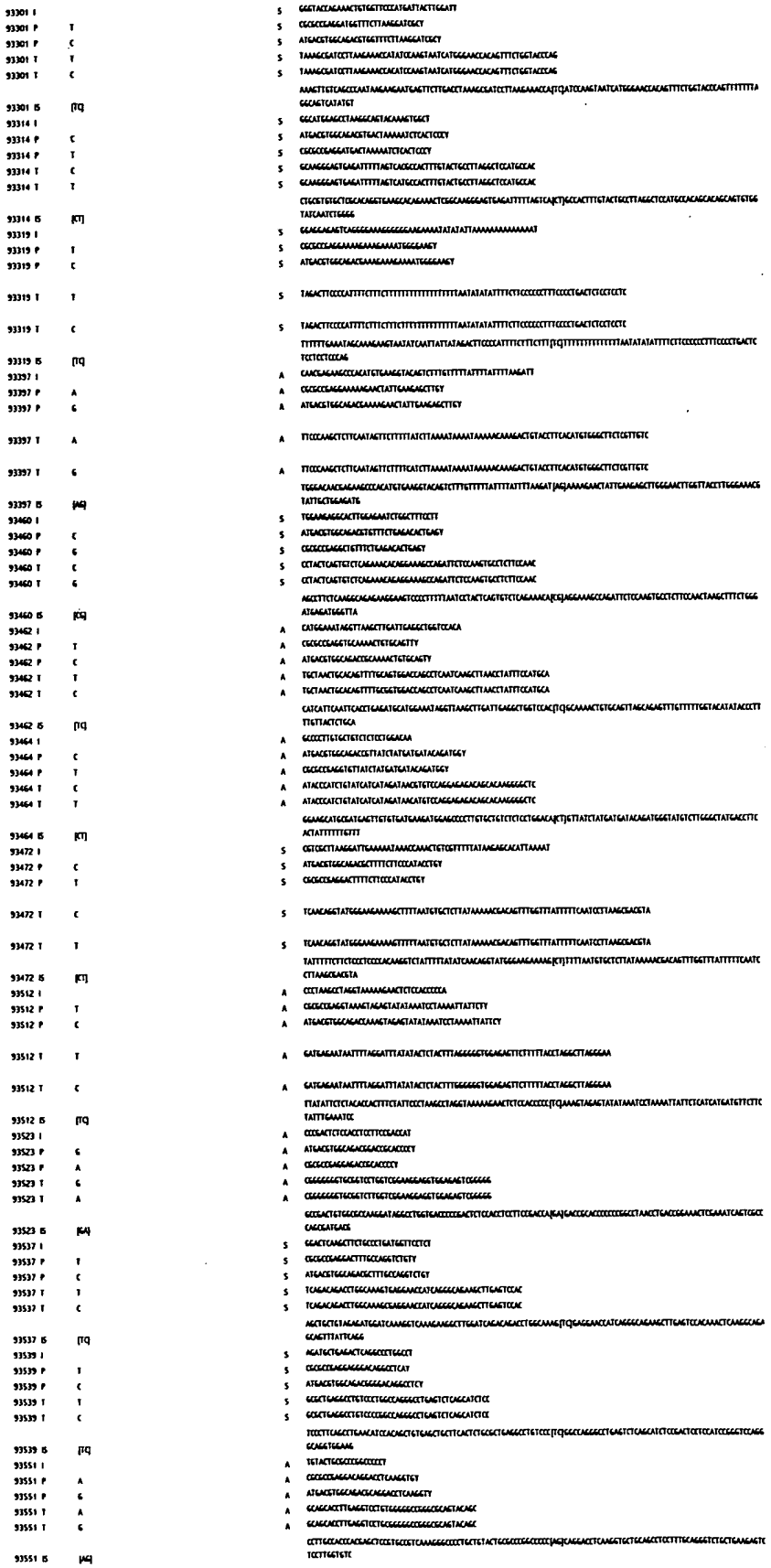


FIGURE 129C

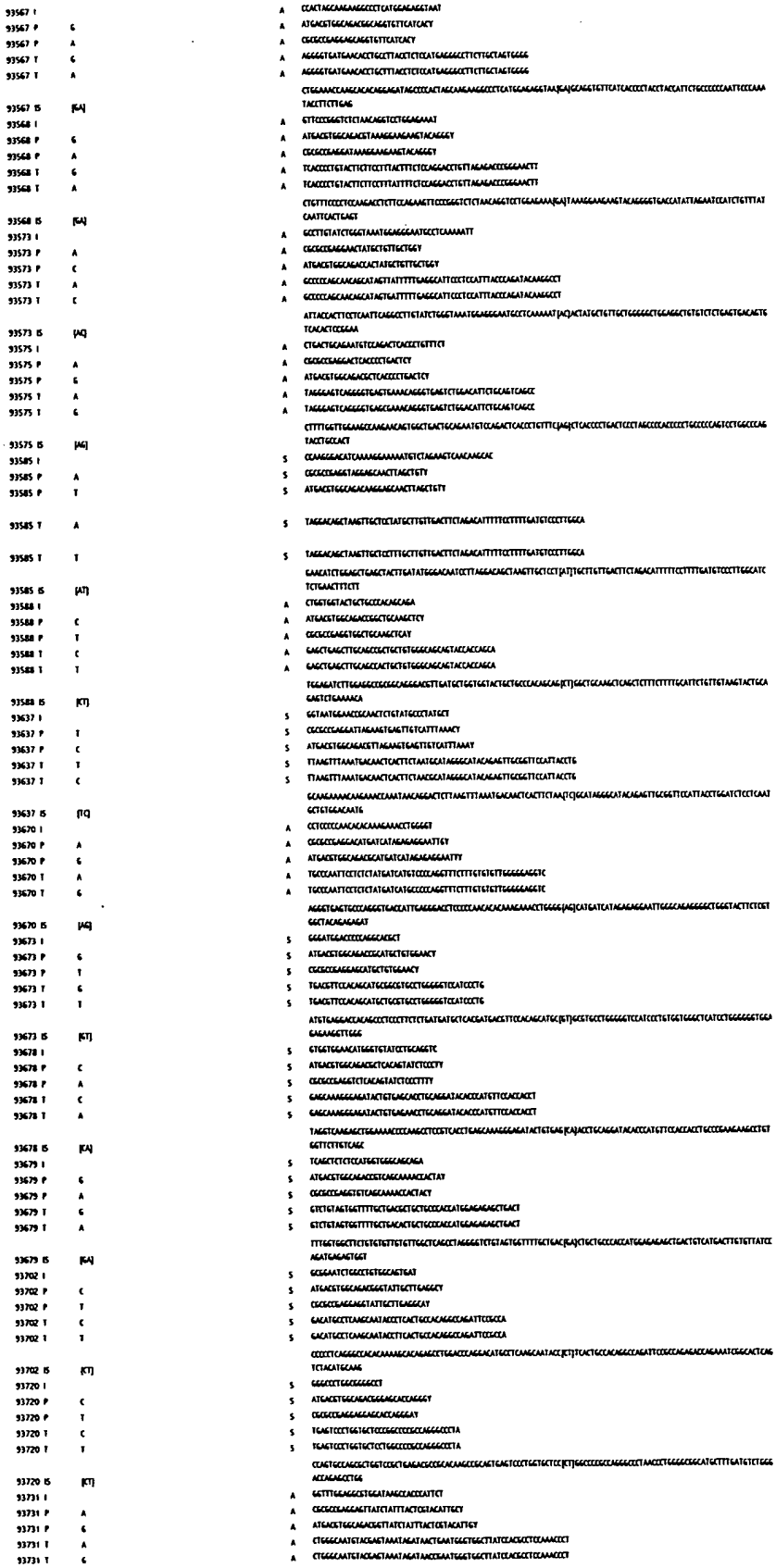
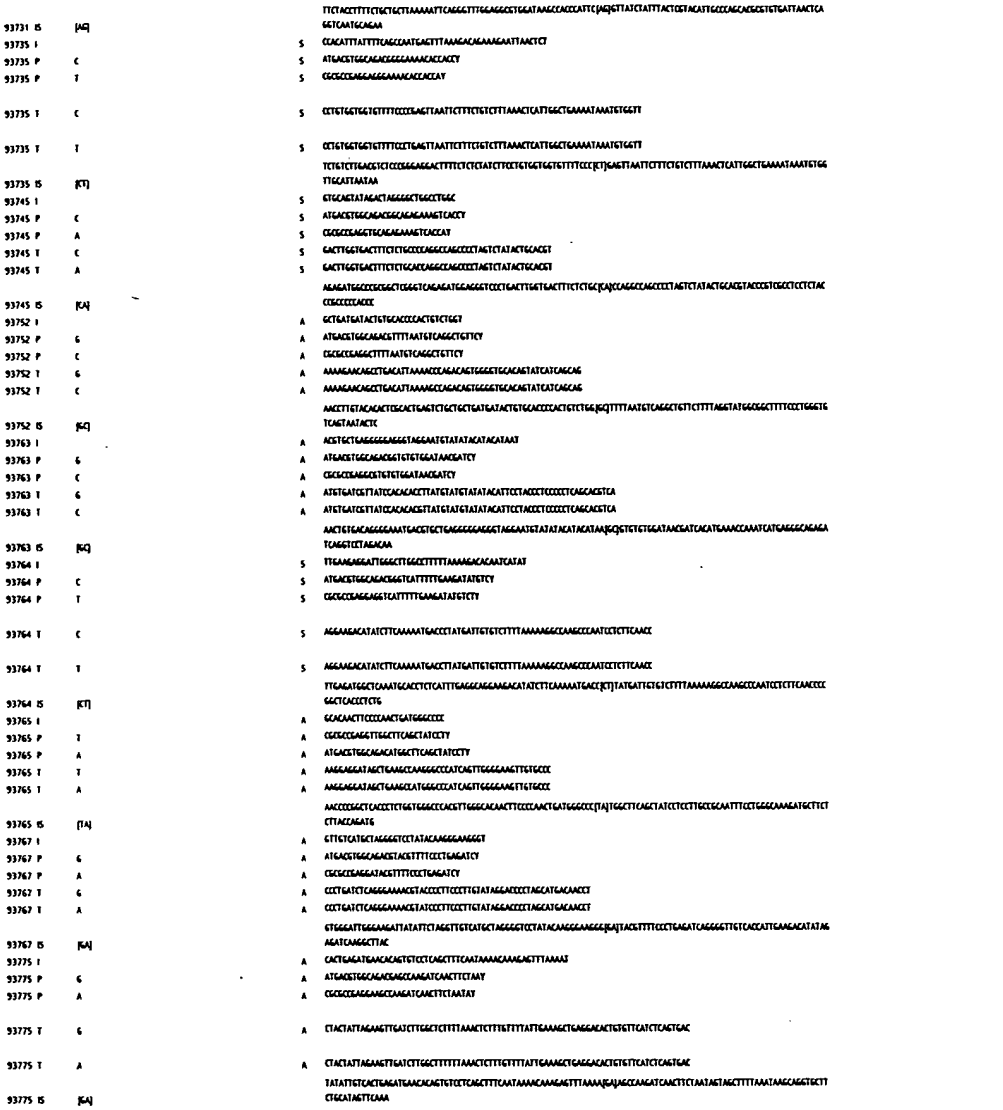


FIGURE 129C



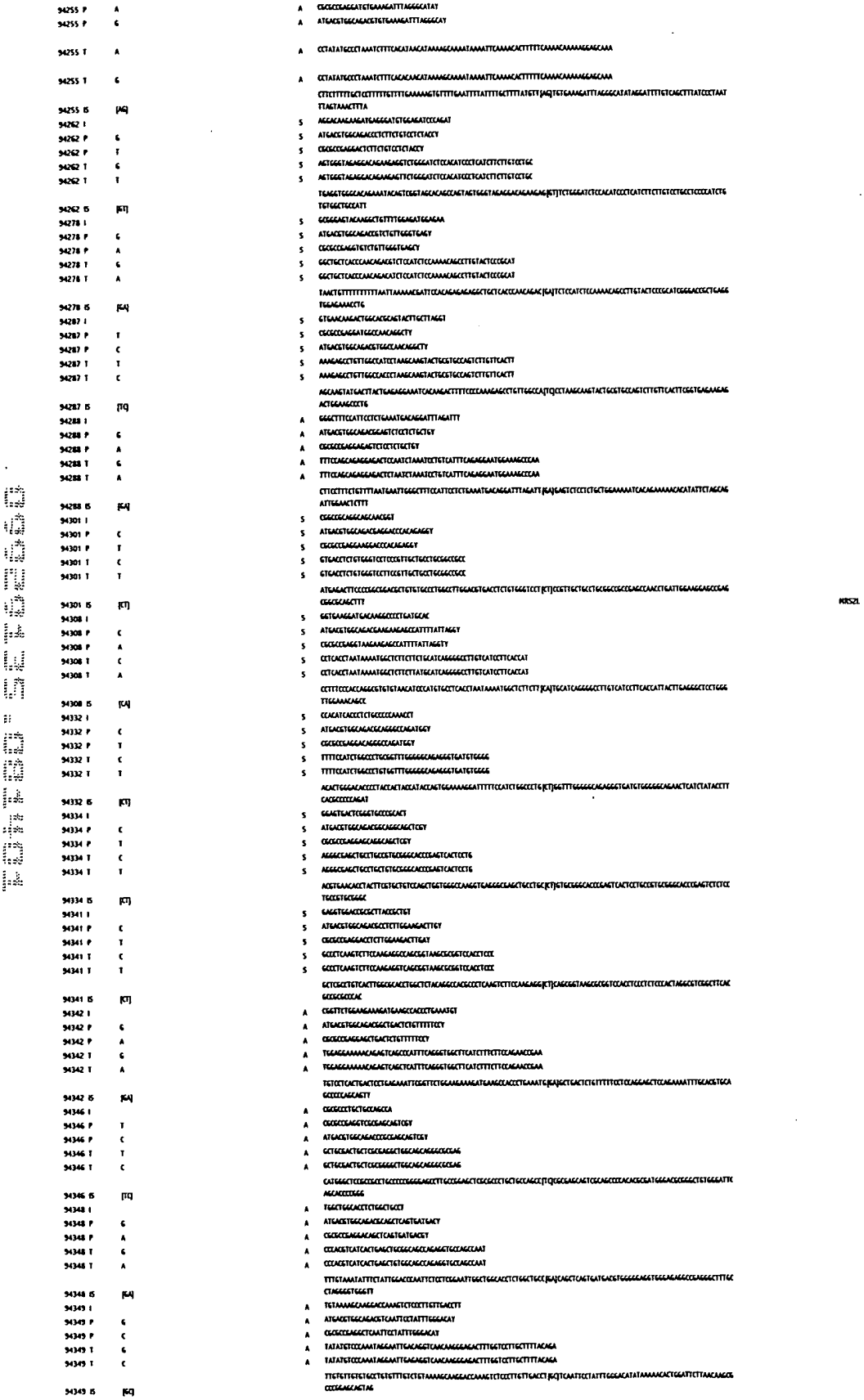


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93820 IS	(AC)		CAGGTTTCACTAAC
93821 I		S	CTCTAAAAGCTTGACAGGGCCTTGACTGCACAATTT
93821 P	G	S	CGCGCCGAGCCGAGCTGAATTTGCCCY
93821 P	C	S	ATGACGTGGCAGACGGAGCTGAATTTGCCCY
93821 T	G	S	CAAGGGGCAAATTCAGCTCGAATTGTGCAGTCAAGGCCCTGTCAAGCTTTTAGAGGC
93821 T	C	S	CAAGGGGCAAATTCAGCTCGAATTGTGCAGTCAAGGCCCTGTCAAGCTTTTAGAGGC
			TTCAGCTTTTCCCCCTTTGAGATTTATTTACTGGCAGCTGACAAGGGGCAAATTCAGCTCGCJAATTGTGCAGTCAAGGCCCTGTCAAGCTTTTAGAGGCACCCTTGTCTT
93821 IS	(GC)		GAAGCACCTTCA
93840 I		S	GCAAAGTACCTCCAGTCACATGCCAGGCAGA
93840 P	G	S	ATGACGTGGCAGACCTGTGCAACTGAGCCT
93840 P	A	S	CGCGCCGAGGTTGTGCAACTGAGCCT
93840 T	G	S	CTCTGGCTCAGTTGCACAACTGCCTGGCATGTGACTGCAAGTACTTTGCAG
93840 T	A	S	CTCTGGCTCAGTTGCACAACTGCCTGGCATGTGACTGCAAGTACTTTGCAG
			ACGCCCCTATTCTCAGTTCTAGTGGGAACCCTGGTTACACCTCCTCTGGCTCAGTTGCACAJGAJCTGCCTGGCATGTGACTGCAAGGTACTTTGCAGTCATTGCTGGGATTTC
93840 IS	(GA)		ACTGATGTGACC
93847 I		A	CGGCTGGGCAGGGGCGGA
93847 P	T	A	CGCGCCGAGGTGAACGTTTAGGGTCCGY
93847 P	C	A	ATGACGTGGCAGACCGAACGTTTAGGGTCCY
93847 T	T	A	TGGCCGGACCCTAAACGTTCACCGCCCCTGCCCAGCCGCC
93847 T	C	A	TGGCCGGACCCTAAACGTTCGCCGCCCCTGCCCAGCCGCC
			GAGCCGCTTGTGAATGGAGACTTGCTGGCTGCCCAGGAGTCGGGCGGCTGGGCAGGGGCGG[TC]GAACGTTTAGGGTCCGGCCAAGAAAGTTGGAAGTCGTCTCCCTGAC
93847 IS	(TC)		CTGTTCCTTGCGAG
93883 I		S	GGGGCACAGGTGGGGCCTGGT
93883 P	T	S	CGCGCCGAGGATCAGATTATGGATGGATGY
93883 P	C	S	ATGACGTGGCAGACGTCCAGATTATGGATGGATGY
93883 T	T	S	GGGGCATCCATCCATAATCTGGATCCAGGCCCTCACCTGTGCCCCTT
93883 T	C	S	GGGGCATCCATCCATAATCTGGACCCAGGCCCTCACCTGTGCCCCTT
			TGGCAGGGGCAGGGCTGGGGCTGGGTGCTACCTGGGAGGGGCATCCATCCATAATCTGGA[TC]CCAGGCCCCCACCTGTGCCCCTTCCCTTCTGGAACTCCCACCCTCACCC
93883 IS	(TC)		GCTTCTCTCTGC
93890 I		S	GGGAGGAAGTAGGTTAAAAATCAGCTAAGGAAGGAGCACT
93890 P	C	S	ATGACGTGGCAGACGGTTGGATGCCTCTCTY
93890 P	T	S	CGCGCCGAGGAGTTGGATGCCTCTCTCY
93890 T	C	S	AATGGAGAAGAGGCATCCAACCGTGCTCCTTCCTTAGCTGATTTTTAACCTACTTCCTCCCTC
93890 T	T	S	AATGGAGAAGAGGCATCCAACTGTGCTCCTTCCTTAGCTGATTTTTAACCTACTTCCTCCCTC
			GGCTCTAGGATGTGCAGAACCACACTGCTGCTCCTTCAGGAATGGAGAGAAGGCATCCAAC[CT]GTGCTCCTTCCTTAGCTGATTTTTAACCTACTTCCTCCCTCTGAGCCT
93890 IS	(CT)		GCACTAGCCAAC
93895 I		S	GCGGCCCTTCCGGCCCTCGT
93895 P	C	S	ATGACGTGGCAGACGCCCCTCCCAGAGY
93895 P	T	S	CGCGCCGAGGACCCCTCCCAGAGCY
93895 T	C	S	AGCCGCTCTGGCAGGGGCCGAGGGCCGGAAGGGCCGCAG
93895 T	T	S	AGCCGCTCTGGCAGGGGCCGAGGGCCGGAAGGGCCGCAG
			GGACACCTTGGGGCGTGTGTGGTGAGGTCCTGGCAGGAGGGGCAGCCGCTCTGCGGAGGGG[CT]CGAGGCCCGGAAGGGCCGCAGTGCCAGTTGCAGGAGACATTAGAAC
93895 IS	(CT)		TGTCCCTCAAGCTG
93905 I		S	GGGCTATCTTCAAAAACATTATTCTCATGTAAGAAATGTGGTAAAGCCGTCT
93905 P	T	S	CGCGCCGAGGATATGCTCTAGTTTATTAGAACACAT
93905 P	C	S	ATGACGTGGCAGACGTATGCTCTAGTTTATTAGAACACAT
93905 T	T	S	TTTATGTGTTCTAATAAACTAGAGCATATGACAGCCTTTACCACATTTCTTACATGAGAATAATGTTTTTGAAGATAGCCCAG
93905 T	C	S	TTTATGTGTTCTAATAAACTAGAGCATACACAGCCTTTACCACATTTCTTACATGAGAATAATGTTTTTGAAGATAGCCCAG
			TCATCGATAGGGTTCTGTACAGTGTGAGTTCTTTTATGTGTTCTAATAAACTAGAGCATA[TC]GACAGCCTTTACCACATTTCTTACATGAGAATAATGTTTTTGAAGAT
93905 IS	(TC)		AGCCCAGTTGACTA
93914 I		S	GTACAGGGTCAGGGAGAAGCAGGGCCA
93914 P	G	S	ATGACGTGGCAGACCGTTCTGCTTACGTGGY
93914 P	A	S	CGCGCCGAGGTGTTCTGCTTACGTGGY
93914 T	G	S	GTACCCACGTAAGCAGAACGGGCCCTGCTTCTCCCTGACCCTCTACTG
93914 T	A	S	GTACCCACGTAAGCAGAACAGGCCCTGCTTCTCCCTGACCCTCTACTG
			GATGAGGGGGGAGCTGCAAGTGATGACAGCATGACAGACCTGTACCCACGTAAGCAGAAC[GA]GGCCCTGCTTCTCCCTGACCCTCTACTGTCAGCAGGGAGCAGACTGT
93914 IS	(GA)		GGTGCTGCCCCC
93923 I		A	AGGAATGGCGTATCCTTCCATTTATTTGGATTTCTTTTTTTC
93923 P	T	A	CGCGCCGAGGTTTGTTGTTGTTGCCTCAY
93923 P	G	A	ATGACGTGGCAGACGTTGTTGTTGTTGCCTCAY
93923 T	T	A	TTAGTGAGGCAACAACACAAAAAAAAAAGAAATCCAAATAAATGGAAAGGATACGCCATTCCTCT
93923 T	G	A	TTAGTGAGGCAACAACACAACAAAAAAAAGAAATCCAAATAAATGGAAAGGATACGCCATTCCTCT
			AAAAATCAAACGTATATAGAGGAATGGCGTATCCTTCCATTTATTTGGATTTCTTTTTTT[TG]TTGTTGTTGTTGCCTCACTAAGATAAGAATGACTAACAGCTTTACTT
93923 IS	(TG)		CTCCCCAGGTTA
93926 I		A	GCATGGAAACCAGTGCTCTTGGAGTCCTCAT
93926 P	G	A	ATGACGTGGCAGACGTAATTTCTAAGAGAGAAAAGAGGY
93926 P	A	A	CGCGCCGAGGATAATTTCTAAGAGAGAAAAGAGGTY
93926 T	G	A	TAGAACTCTTTCTCTCTCTTAGAAATTACTGAGGACTCCAAGAGCACTGGTTTCCATGCTA
93926 T	A	A	TAGAACTCTTTCTCTCTCTTAGAAATTATTGAGGACTCCAAGAGCACTGGTTTCCATGCTA
			ACACTTCGGGGCAAAAAGGACATGAATTATAGCATGCAAACCAGTGCTCTTGGAGTCCTCA[GA]TAATTTCTAACAGAGAAAAGAGGTCCTAAGTTTTAAAATGTTTCA
93926 IS	(GA)		TGCTGCTGCTTTAAG
93992 I		A	TGTTTACTTTGGGGGAAAGGATGCCAGGAACATGTAA
93992 P	T	A	CGCGCCGAGGTAGTGTCTCAGTGCTAATACTY
93992 P	C	A	ATGACGTGGCAGACCAGTGTCTCAGTGCTAATACY
93992 T	T	A	ATAGAGTATTAGCACTGAGACACTATACATGTTCCTGGCATCCTTTCCCCCAAAGTAAACAAG
93992 T	C	A	ATAGAGTATTAGCACTGAGACACTGTACATGTTCCTGGCATCCTTTCCCCCAAAGTAAACAAG
			GTTAAACTCTGTGTGGCTTTCTCTTGTTTACTTTGGGGCAAAGGATGCCAGGAACATGTA[TC]AGTGTCTCAGTGCTAATACTCTATGATGGATTAACTCAAAGCATCG
93992 IS	(TC)		GGAGATGACTCATA
94016 I		S	CCTACCCGCCCTCCCGCCTT
94016 P	C	S	ATGACGTGGCAGACGGTATTGTGGGACGGY
94016 P	T	S	CGCGCCGAGGAGTATTGTGGGACGGCY
94016 T	C	S	AGGTGCCGTCCCACAATACCAGGCGGGAGGCGGGTAGGCG
94016 T	T	S	AGGTGCCGTCCCACAATACTAGGCGGGAGGCGGGTAGGCG
			GGGGTGGAGGGGGGCTGGAGAGAGTGAGGAGGAAGGGGAGAAGGTGCCGTCCCACAATAC[CT]AGGCGGGAGGGCGGGTAGGCGGTTGTATCCGGGCTGTGAGGTGC
94016 IS	(CT)		TCGGAGCCTCGGCGG
94026 I		S	CCTGGGGGCAGAGGGGGCACAT
94026 P	T	S	CGCGCCGAGGAGCATCGCTGGGY
94026 P	C	S	ATGACGTGGCAGACGGCATCGCTGGGY
94026 T	T	S	TCTCCCCAGGGGATGCTTGTCCCCCCTCTGCCCCCAGGCT
94026 T	C	S	TCTCCCCAGCGGATGCCTGTCCCCCCTCTGCCCCCAGGCT
			CCCCTGTCCGTCCCGCCACAGGCCCCACCAGGGTCCTACCCGAGTCTCCCCAGCGGATGC[TC]TGTCCCCCCTCTGCCCCCAGGCTCTTCTGGGGCCCCCAGAGCTTCCCGCC
94026 IS	(TC)		TTCATCAGAG
94035 I		S	CGTCCATCTCCTCCGGCACCCATGGT
94035 P	T	S	CGCGCCGAGGACAGTATTCAATTTTGCAGACY
94035 P	C	S	ATGACGTGGCAGACGCAGTATTCAATTTTGCAGAY
94035 T	T	S	TGCCGCTCGCAAAATTGAATACTGTCCATGGGTGCCGCAGGAGATGGACGCA



FIGURE 129C







```
94351 I                                  A  ACAATGGGCTCACTTTATATTTTCCTTTTCTACTCATTCCATAAGT
94351 P    C                             A  CGCGCCCAGGCTGTTCCTTATTTTGTGCCTTTTTY
94351 P    G                             A  ATGACGTGGCAGACGTGTTCCTTATTTTGTCCTTTTY

94351 T    C                             A  ACCAAAAAAGGACAAAATAAGGAACACGTTATGGAATGAGTAGAAAAGGAAAATATAAAGTGAGCCCATTGTGA

94351 T    G                             A  ACCAAAAAAGGACAAAATAAGGAACACCTTATGGAATGAGTAGAAAAGGAAAATATAAAGTGAGCCCATTGTGA

                                            AGCACATTTGAATTTCACAATGGGCTCACTTTATATTTTCCTTTTCTACTCATTCCATAAG[GG]TGTTCCTTATTTTGTCCTTTTTTGGTGTTTGGGTTTTATTTTGTATTT
94351 IS   [CG]                             TTTCCAGTTTAT
94352 I                                  S  ACATGGTGCTGGTTGGGCAGCATGCT
94352 P    G                             S  ATGACGTGGCAGACGTGAATGAGCCTTTTCGY
94352 P    T                             S  CGCGCCGAGGAGATGGCCGTTTTCGY
94352 T    G                             S  GGACCGAAAACGGCCATCGGCATGCTGCCCAACCAGCACCATGTCC
94352 T    T                             S  GGACCGAAAACGGCCATCTGCATGCTGCCCAACCAGCACCATGTCC

                                            CTCAACTTAGGTTTTCAGTGGTGGTGTCACTGCTGCCAAGCTGGACCGAAAACGGCCATC[GT]GCATGCTGCCCAACCAGCACCATGTCCAAAGACCTGAAAATTCTATG
94352 IS   [GT]                             TAAAGACCTGCT
94357 I                                  S  GGAACACTGGCAAAATCAAGTCTTAGGTGCAAAAGAATGCTATTTT
94357 P    G                             S  ATGACGTGGCAGACCTCCTCACTTTAAGCCY
94357 P    T                             S  CGCGCCCAGGATCCTCCACTTTAAGCCAY

94357 T    G                             S  CAGGTGGCTTAAAGTGGAGGAGAAATAGCATTCTTTTCCACCTAAGACTTGATTTTGCCAGTGTTCCAG

94357 T    T                             S  CAGGTGGCTTAAAGTGGAGGATAAATAGCATTCTTTTCCACCTAAGACTTGATTTTGCCAGTGTTCCAG

                                            GCTCTTGCACTGCAGTGTCAGGAAGAGCATTCAGTTTGTACAGGTGGCTTAAAGTGGAGGA[GT]AAATAGCATTCTTTTCCACCTAAGACTTGATTTTGCCAGTGTTCCAG
94357 IS   [GT]                             TGTGGAATTGAAC
94367 I                                  S  CTTTGGCCAGTCATTTTGTGGTTTCCATTTTCCTGTCTT
94367 P    T                             S  CGCGCCGAGGATGAAATGAGCCACTGAGY
94367 P    C                             S  ATGACGTGGCAGACGTGAAATGAGCCACTGAGY
94367 T    T                             S  AGTCCTCAGTGGCTCATTTCATAGACAGGAAAATGGAAACCACAAAATGACTGGCCAAAGC
94367 T    C                             S  AGTCCTCAGTGGCTCATTTCACAGACAGGAAAATGGAAACCACAAAATGACTGGCCAAAGC

                                            GGCCAGCAAGATCCTCAGCATCTGTCTCACGGGCCCAAAGTCCTCAGTGGCTCATTTCA[TC]AGACAGGAAAATGGAAACCACAAAATGACTGGCCAAAGCCTATGTAG
94367 IS   [TC]                             TGTGGCCAGGGTC
94373 I                                  S  CTCCTCAGGAGGGGTCAGCCTCCGA
94373 P    G                             S  ATGACGTGGCAGACCTCCGCTTATTCTGCY
94373 P    A                             S  CGCGCCGAGGTCTCCGCTTATTCTGCAY
94373 T    G                             S  CCCGTGCAGAATAAGCGGAGGCGGAGCGTGACCCCTCCTGAGGAGCA
94373 T    A                             S  CCCGTGCAGAATAAGCGGAGACGGAGCGTGACCCCTCCTGAGGAGCA

                                            CATCCTCAAGAGGCTGAGCGGCCCCAGGACAGGGACACACGCCCGTGCAGAATAAGCGGAG[GA]CGGAGCGTGACCCCTCCTGAGGAGCAGCAGGAGGCTGAGGAACCTG
94373 IS   [GA]                             TCAGTGCCTCCTC
94376 I                                  A  GTTTTAATTACACGCTTCGTGACTTTTGTTTAGTTGTAGTTTTAAAACAA
94376 P    T                             A  CGCGCCGAGGTTTGCTGGCACTCTTTTY
94376 P    C                             A  ATGACGTGGCAGACCTTGCTGGCACTCTTTTY

94376 T    T                             A  GAAAAAAAGAGTGCCAGCAAATGTTTTAAAACTACAACTAAACAAAAGTCAGGAAGCGTGTAATTAAAACTG

94376 T    C                             A  GAAAAAAAGAGTGCCAGCAAGTGTTTTAAAACTACAACTAAACAAAAGTCAGGAAGCGTGTAATTAAAACTG

                                            ATAAAGTACAGTTTTAATTACACGCTTCGTGACTTTTGTTTAGTTGTAGTTTTAAAACA[TC]TTGCTGGCACTCTTTTTTTCCTTTGGCTGGGCAGTAATAGCTGGTTC
94376 IS   [TC]                             TAAGTATCTGGCT
94394 I                                  S  CCCTGGGGCTCCACAGTGGCTGT
94394 P    T                             S  CGCGCCGAGGACTCCTGATCCCTTTTCCY
94394 P    G                             S  ATGACGTGGCAGACCCTCCTGATCCCTTTTCY
94394 T    T                             S  TTTTGGAAAAGGGATCAGGAGTCAGCCACTGTGGAAGCGCCAGGGCC
94394 T    G                             S  TTTTGGAAAAGGGATCAGGAGGCAGCCACTGTGGAAGCGCCAGGGCC

                                            GGGAAGTGGCTCACCCCTTGGGAAGTGCTGCGGATGTTGTTTTGGAAAAGGGATCAGGAG[TG]CAGCCACTGTGGAAGCGCCAGGGCCTGGAAGACCAAGAAGAGCCAC
94394 IS   [TG]                             TGCAACAGAACAG
94397 I                                  S  GCCCATGAGAAGCCACAGCTCTCCCTT
94397 P    C                             S  ATGACGTGGCAGACGAGCCAGCAACCCAY
94397 P    T                             S  CGCGCCGAGGAAGCCAGCAACCCAGY
94397 T    C                             S  GGACCTGGGTCCTGGCTCAGGGAGAGCTGTGGCTTCTCATGGGCCT
94397 T    T                             S  GGACCTGGGTCCTGGCTTAGGGAGAGCTGTGGCTTCTCATGGGCCT

                                            GCTTGTGTGATTGGGGGCGCTGAGGGCACCACGGAGCCTGGGGACCTGGGTTCCTGGCT[KT]AGGGAGAGCTGTGGCTTCTCATGGGCCTCGCAGGCGTGTACTGTTAC
94397 IS   [KT]                             CGTGTCAACGGC
94405 I                                  A  CAAGAACAGCTCTGTAGGAGTTTCTATTACTTACTCCCTGGTTTTTATGAAT
94405 P    A                             A  CGCGCCCAGGAAAATTTCAGTGATGCTTTGTY
94405 P    C                             A  ATGACGTGGCAGACCAAATTTCAGTGATGCTTTGTY

94405 T    A                             A  GATGACAAAGCATCACTGAAATTTTTTCATAAAAACCAGGGAGTAAGTAATAGAAACTCCTACAAGAGCTGTTCTTGAC

94405 T    C                             A  GATGACAAAGCATCACTGAAATTTGTTCATAAAAACCAGGGAGTAAGTAATAGAAACTCCTACAAGAGCTGTTCTTGAC

                                            AGCAGTGTGAAGAACAGCTCTTGTAGGAGTTTCTATTACTTACTCCCTGGTTTTTATGAA[AC]AAATTTCAGTGATGCTTTGTCATCATTTCCCAAACTAAGTTAGTGAT
94405 IS   [AC]                             GTCTTATAATCGT
94410 I                                  S  TCCTTCCAGCTATAATTCTAAAGCTGCCATTGATCTTTAAAGCAACCTTTAATTAA
94410 P    A                             S  CGCGCCCAGGTCCTGAGACCCCAAAGY
94410 P    G                             S  ATGACGTGGCAGACCCCTGAGACCCCAAAY

94410 T    A                             S  TGGACTTTGGGGTCTCAGGATAATTAAAGGTTGCTTTAAAGATCAATGGCAGCTTTAGAATTATACCTGGAAGGAGG

94410 T    G                             S  TGGACTTTGGGGTCTCAGGGTAATTAAAGGTTGCTTTAAAGATCAATGGCAGCTTTAGAATTATACCTGGAAGGAGG

                                            GCTCAAAGCAAATACTCCTTAGCTCGAGCCTTGGCCTATTTGGACTTTGGGGTCTCAGG[AG]TAATTAAAGGTTGCTTTAAAGATCAATGGCAGCTTTAGAATTATACC
94410 IS   [AG]                             TGGAAGGAGCCG
94412 I                                  A  GTTCACTCGAAGCAGCAAATGTCATGAAATGCCAAAGTAT
94412 P    A                             A  CGCGCCGAGGAAGATCGTTGTCTCCGTY
94412 P    G                             A  ATGACGTGGCAGACGAGATCGTTGTCTCCGTY
94412 T    A                             A  AAAGACGGAGACAACGATCTTCACTTTGGCATTTCATGACATTTGCTGCTTCCAGTGAACAC
94412 T    G                             A  AAAGACGGAGACAACGATCTCTACTTTGGCATTTCATGACATTTGCTGCTTCCAGTGAACAC

                                            CAGGTTTCTCTTTCATCCTGTGTTCACTGCAAGCAGCAAATGTCATGAAATGCCAAAGTA[AG]AGATCGTTGTCTCCGTCTTTATTGTTTCAAGACATTTAAAGACAAA
94412 IS   [AG]                             ATTGGGTCAATTG
94413 I                                  S  CCAGCCTCCTCCACACTCCTCTTGCCT
94413 P    T                             S  CGCGCCGAGGACACATGGGCTATGGTY
94413 P    G                             S  ATGACGTGGCAGACCCACATGGGCTATGGTY
94413 T    T                             S  GACAACCATAGCCCATGTGTGGCAAGAGGAGTGTGCAGGAGGCTGGGG
94413 T    G                             S  GACAACCATAGCCCATGTGGGGCAAGAGGAGTGTGCAGGAGGCTGGGG

                                            GAGGGCCTTGTCCTGCAGTTGTTAGCGATGTGCTCGGGCCGAGACAACCATAGCCCATGTG[TG]GGCAACAGGAGTCTGCAGGAGGCTGGGCCCAGGGGTCTGATTTGC
94413 IS   [TG]                             ACATGAAGACCCTC
94417 I                                  A  CCTGGGTGGGGCTAAAAATCAGGTAGATGCAAAAACT
94417 P    A                             A  CGCGCCGAGGATCCACAAGGGGTCTTY
94417 P    G                             A  ATGACGTGGCAGACGTCCACAAGGGGTCTTY
94417 T    A                             A  CTGCAAGACCCCTTGTGGATGTTTTTGCATCTACCTGATTTTTAGCCCCACCCAGGGA
94417 T    G                             A  CTGCAAGACCCCTTGTGGACGTTTTTGCATCTACCTGATTTTTAGCCCCACCCAGGGA
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FIGURE 129C

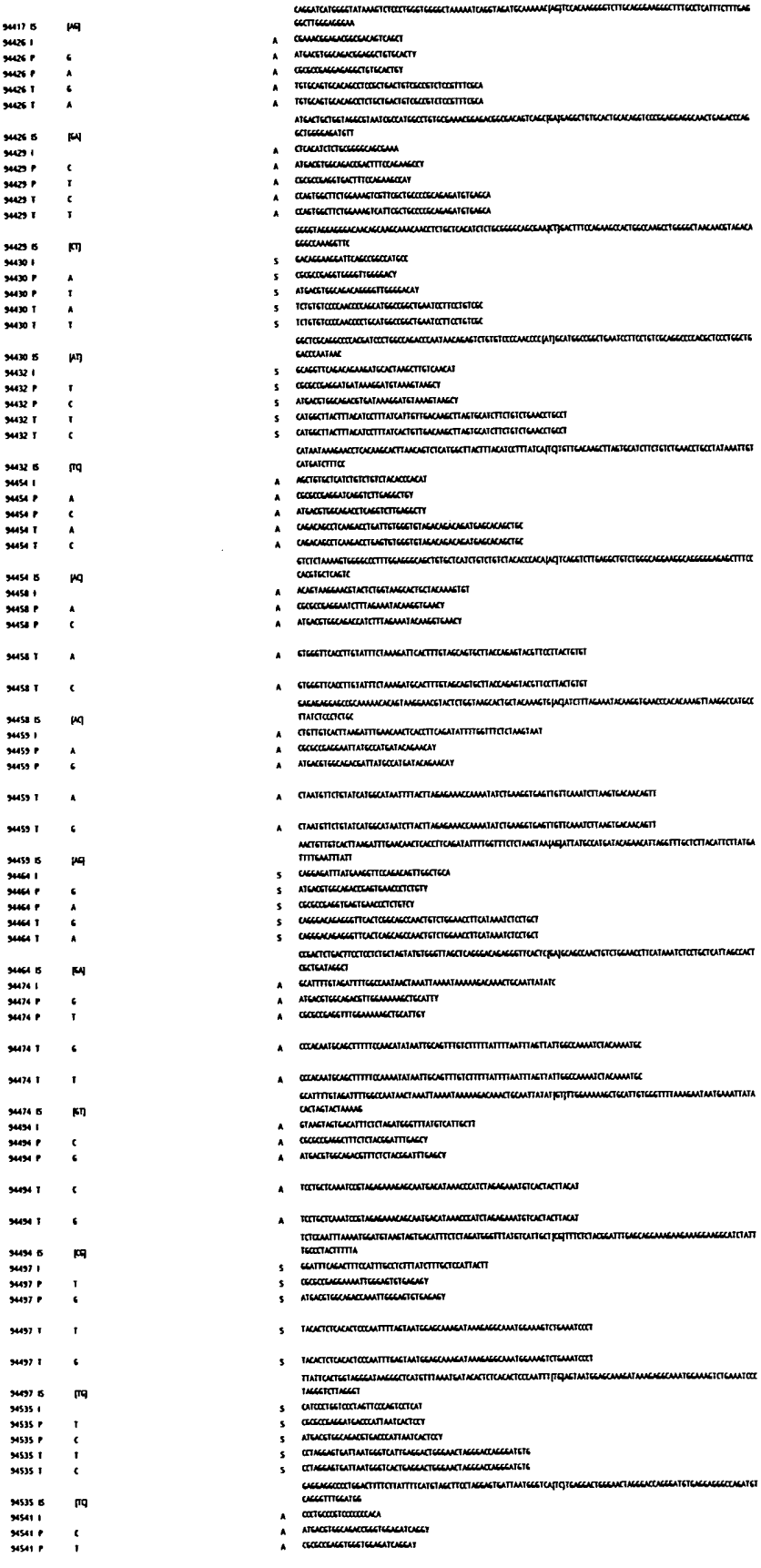
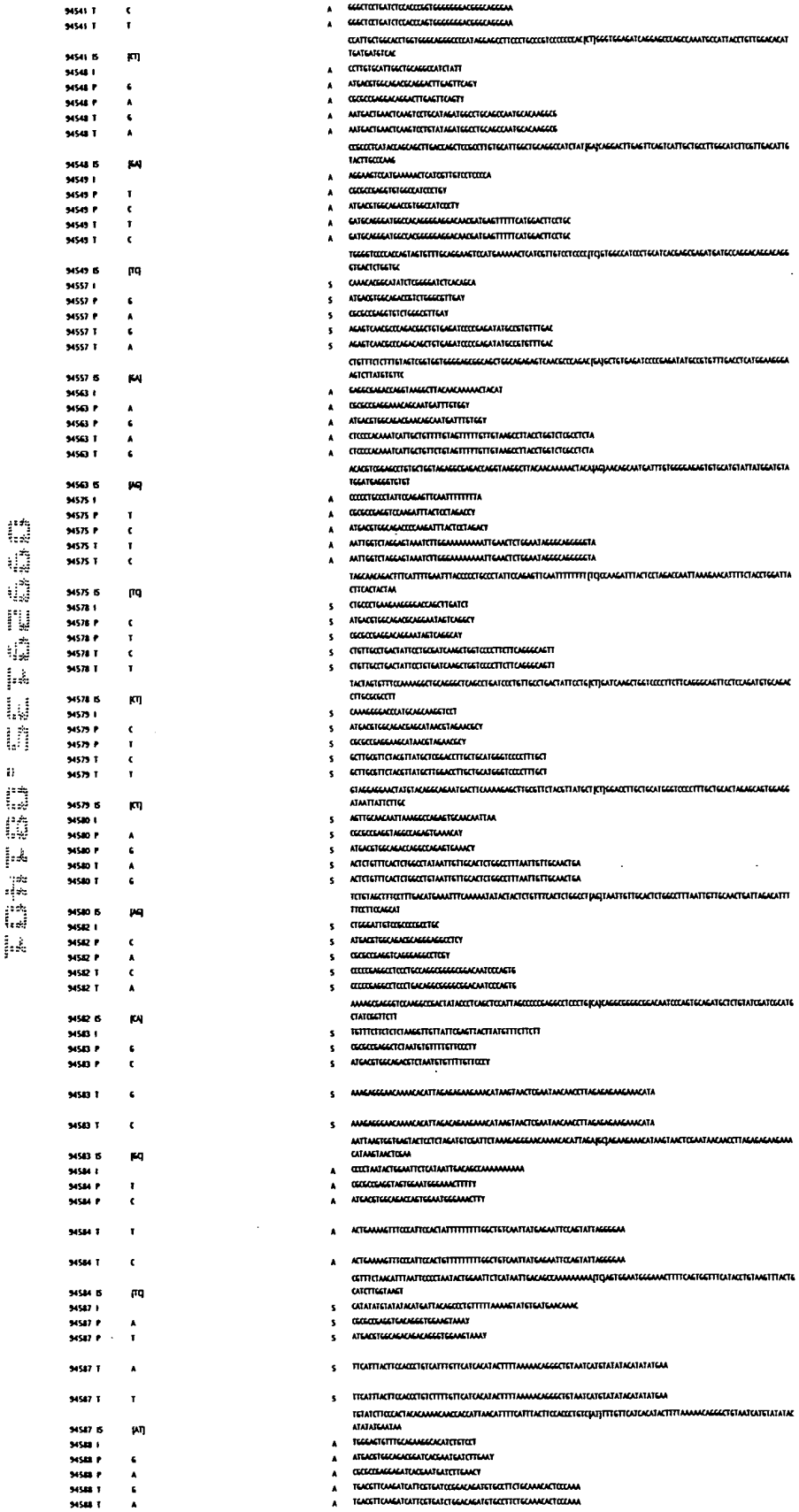
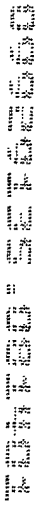


FIGURE 129C









Sheet 129 of 134 Replacement Sheet

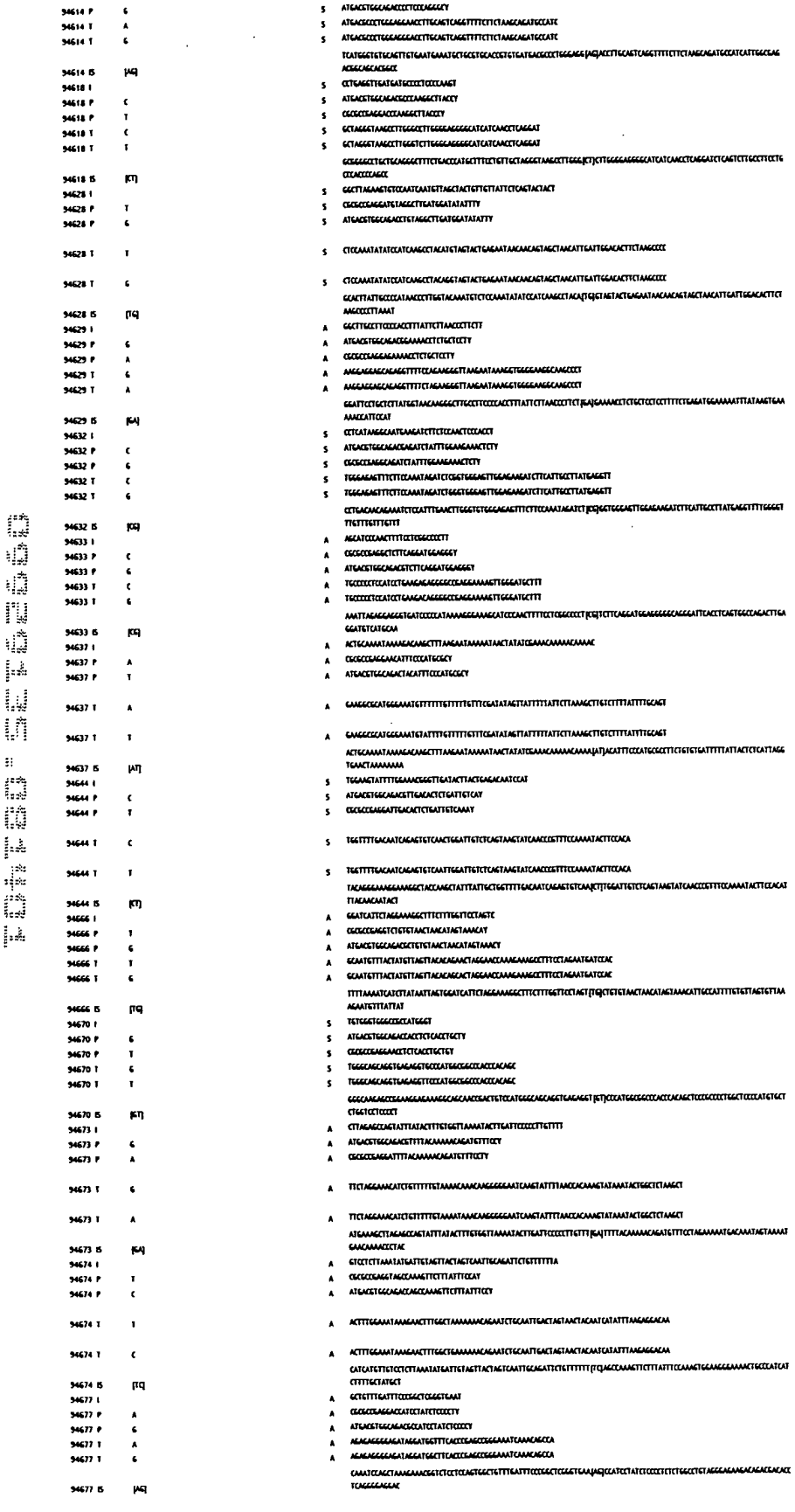


FIGURE 129C

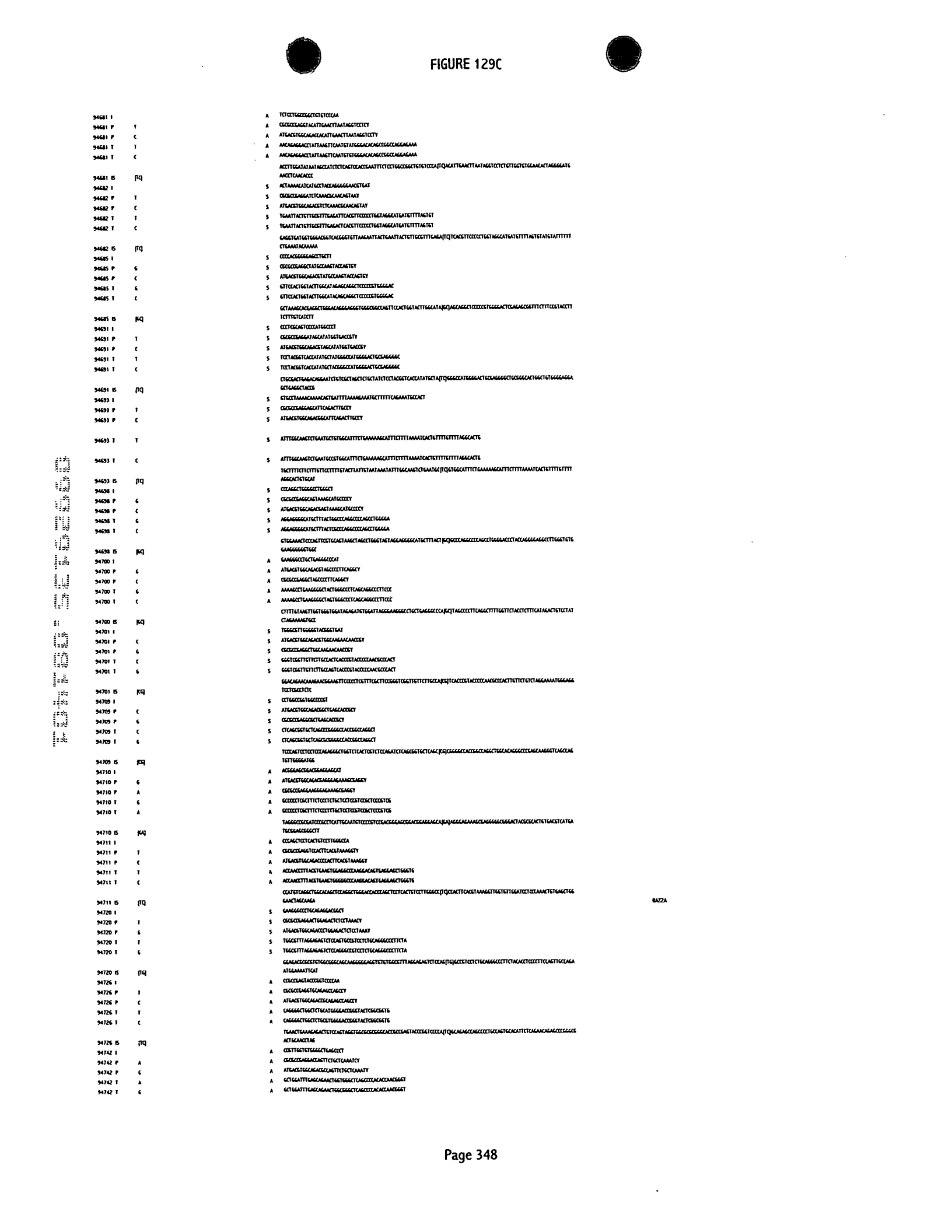
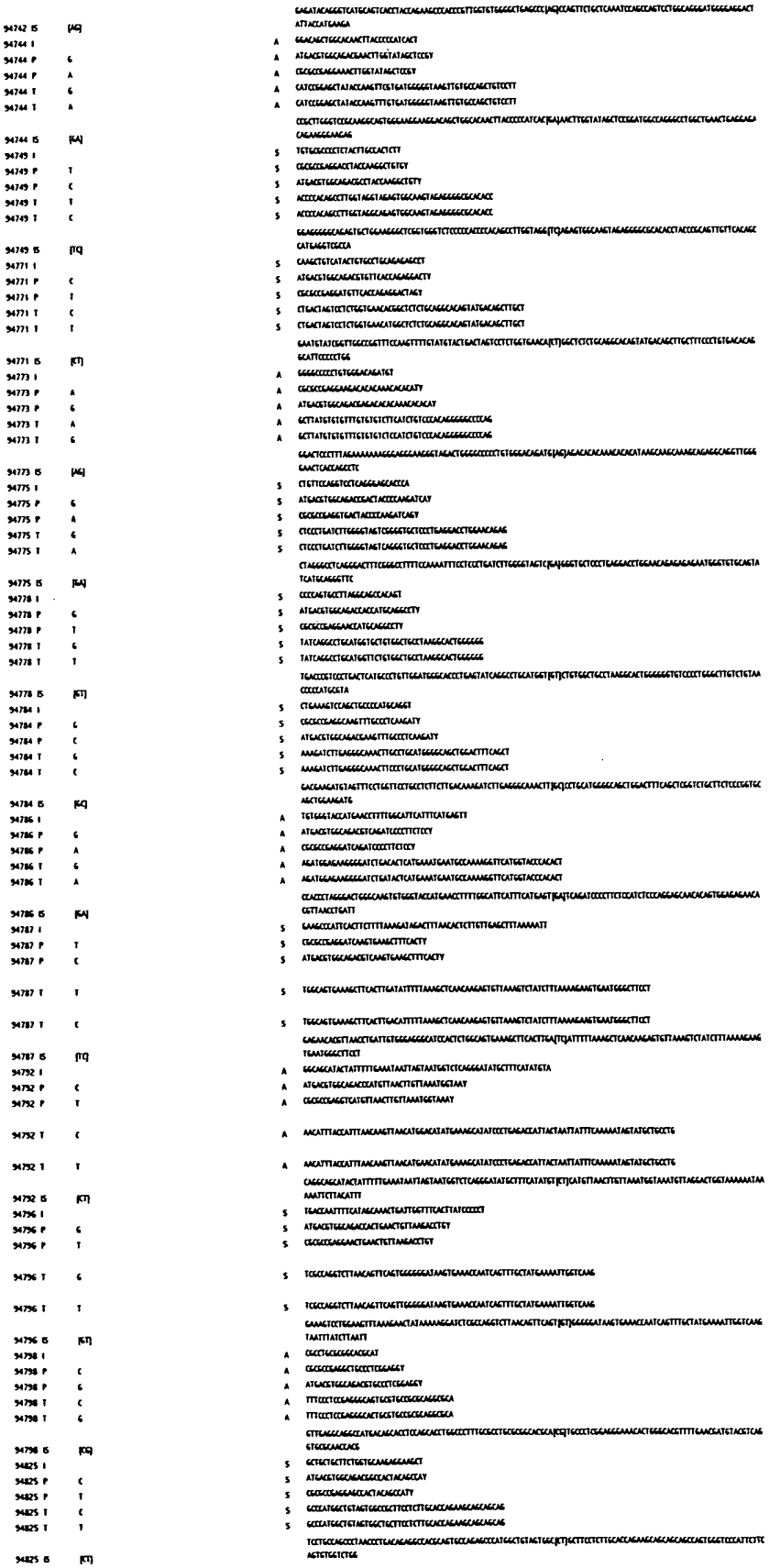


FIGURE 129C



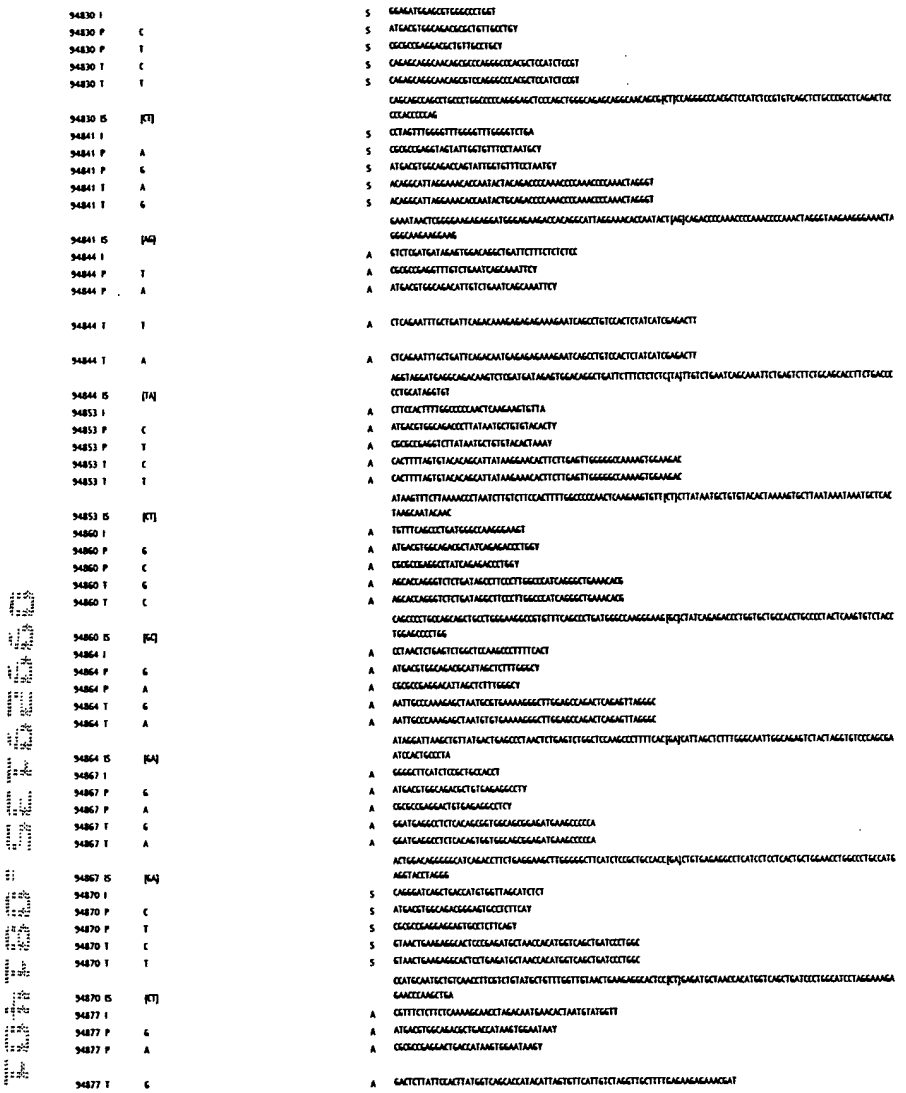
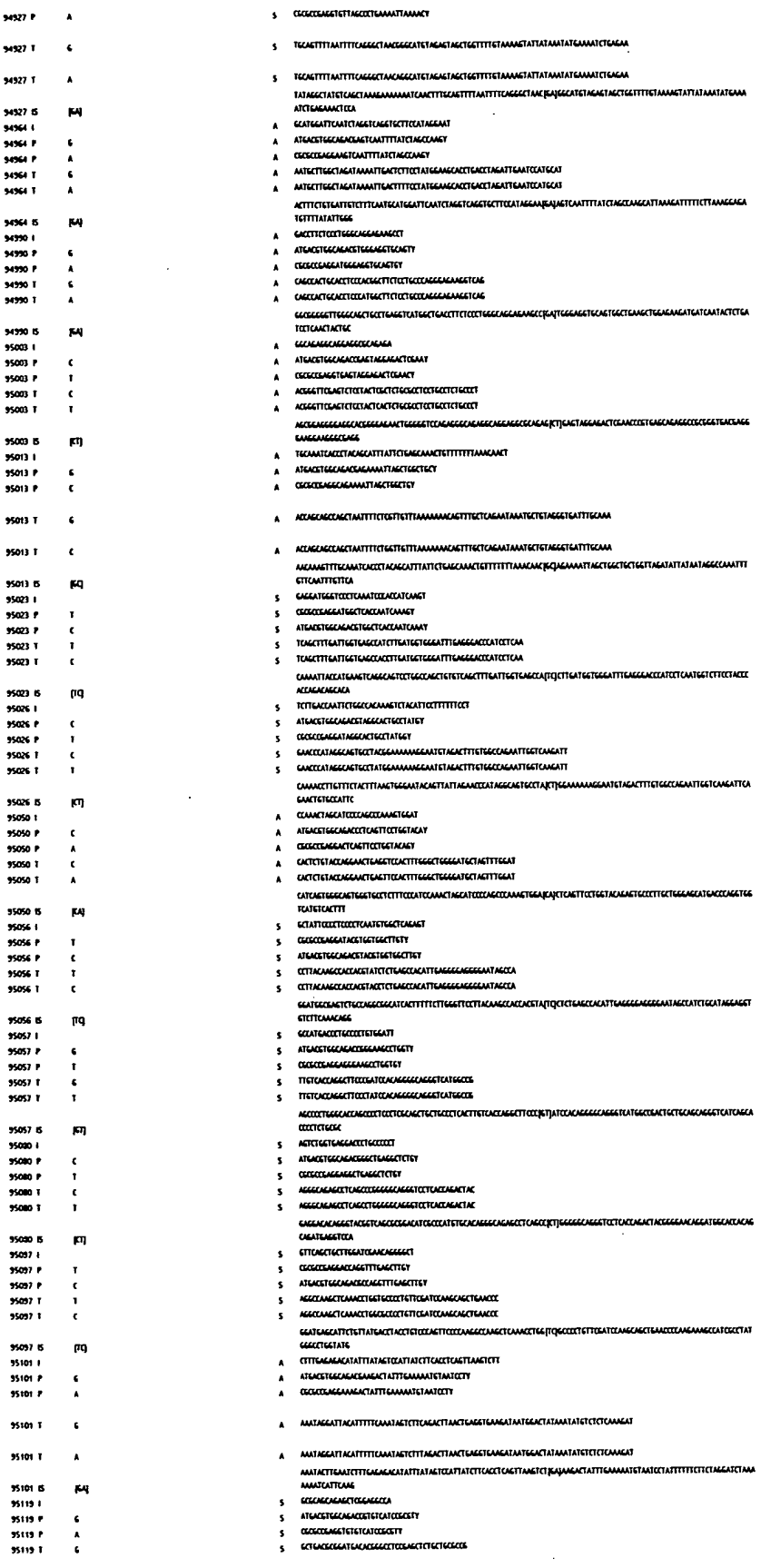
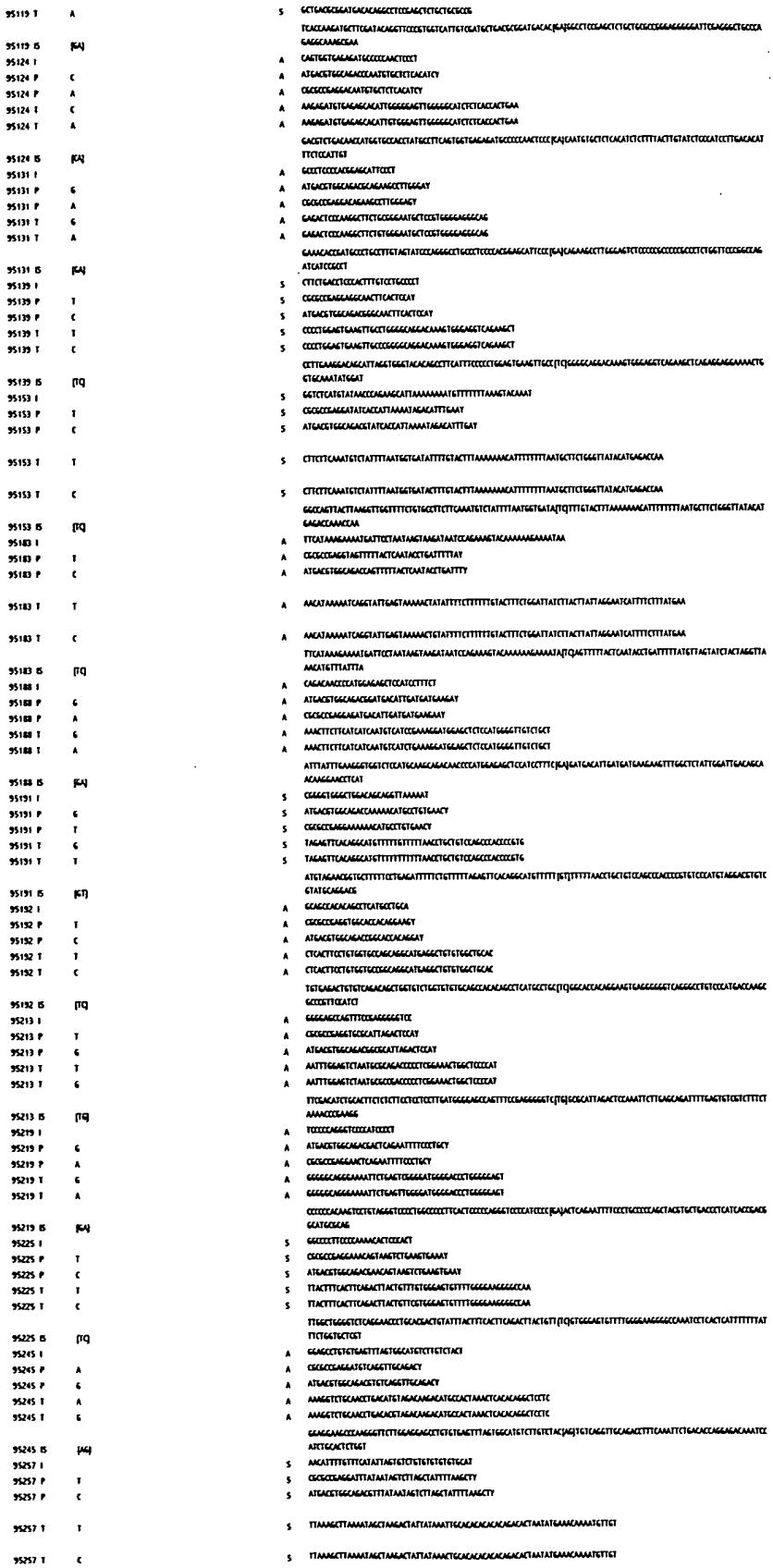
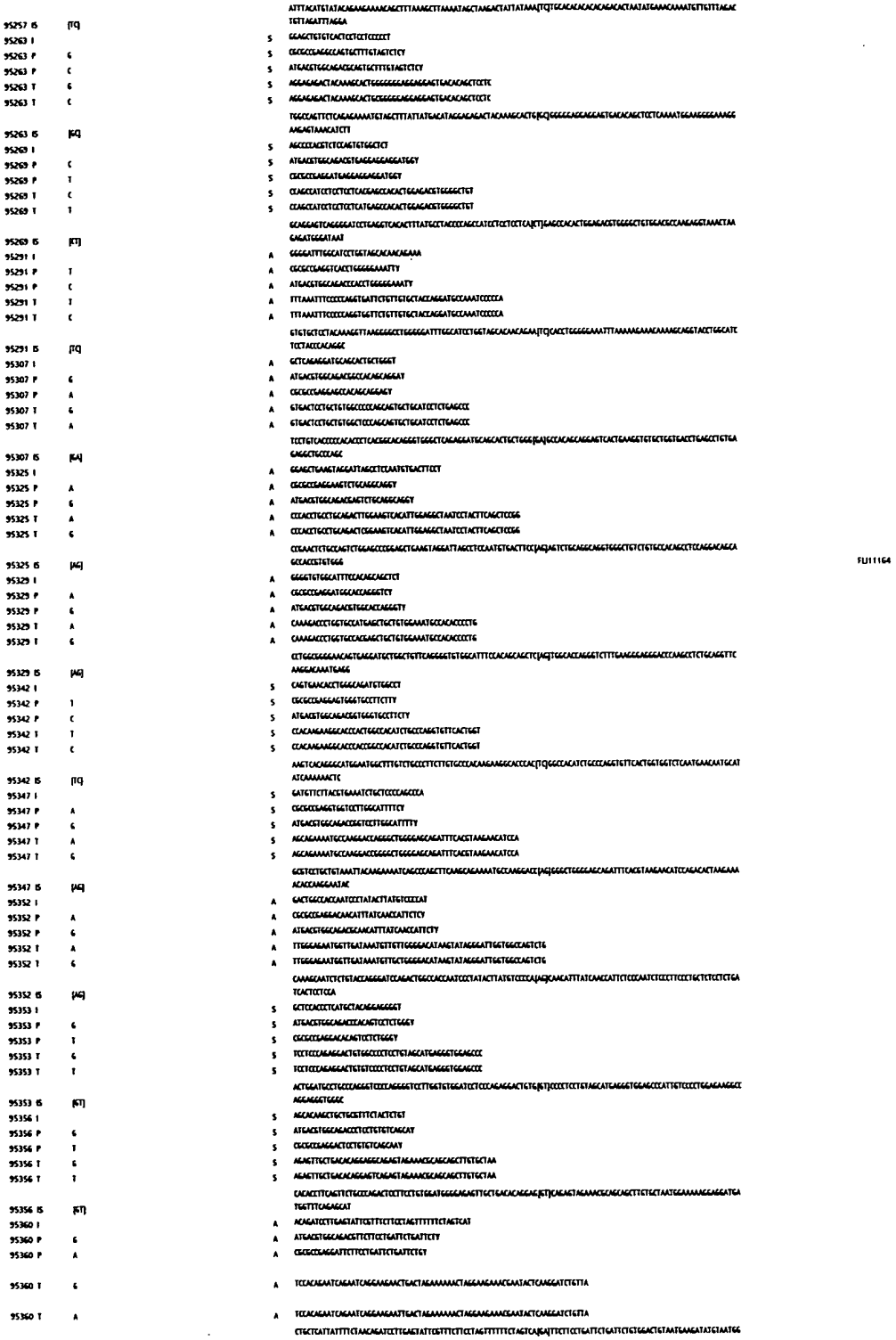
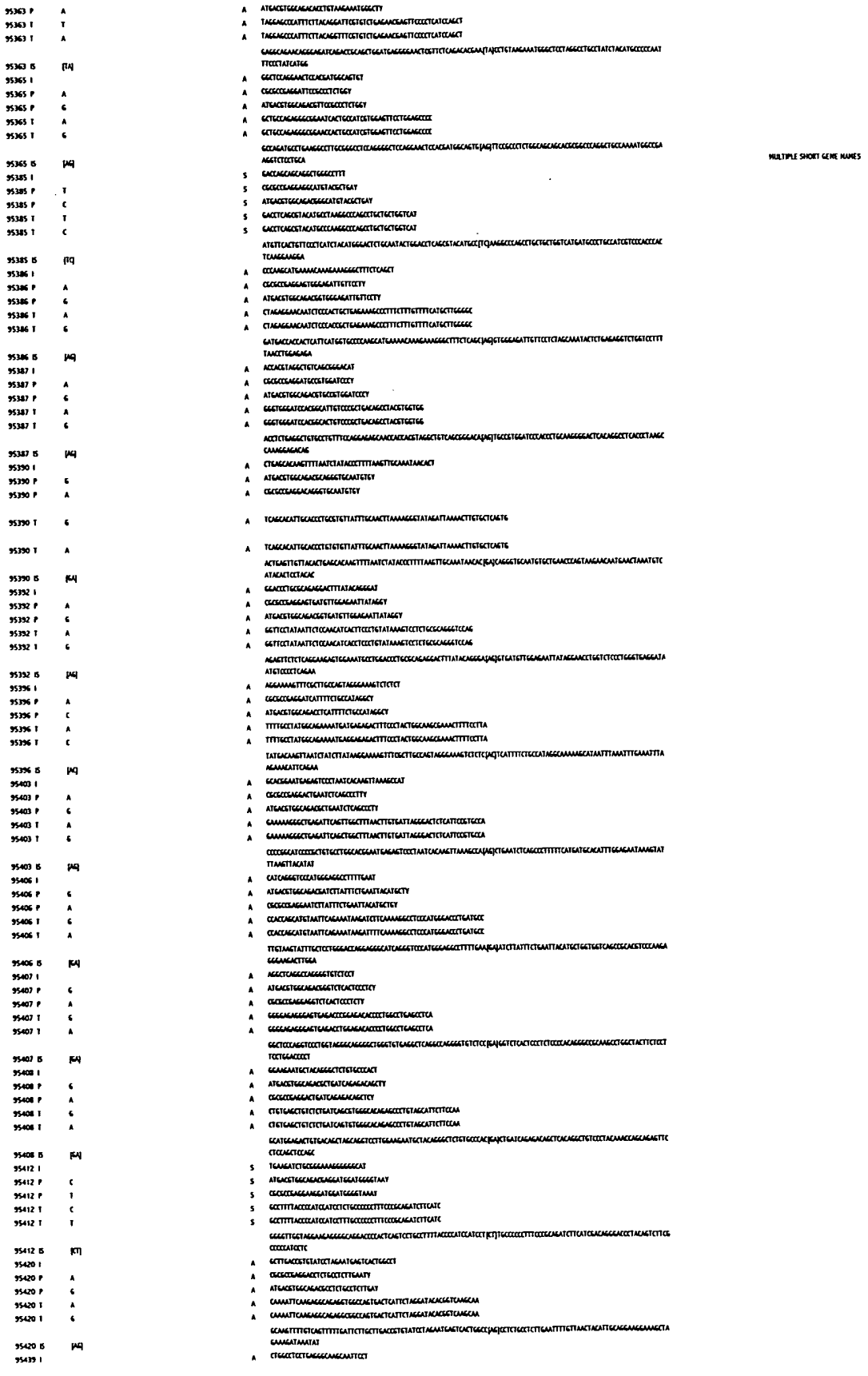


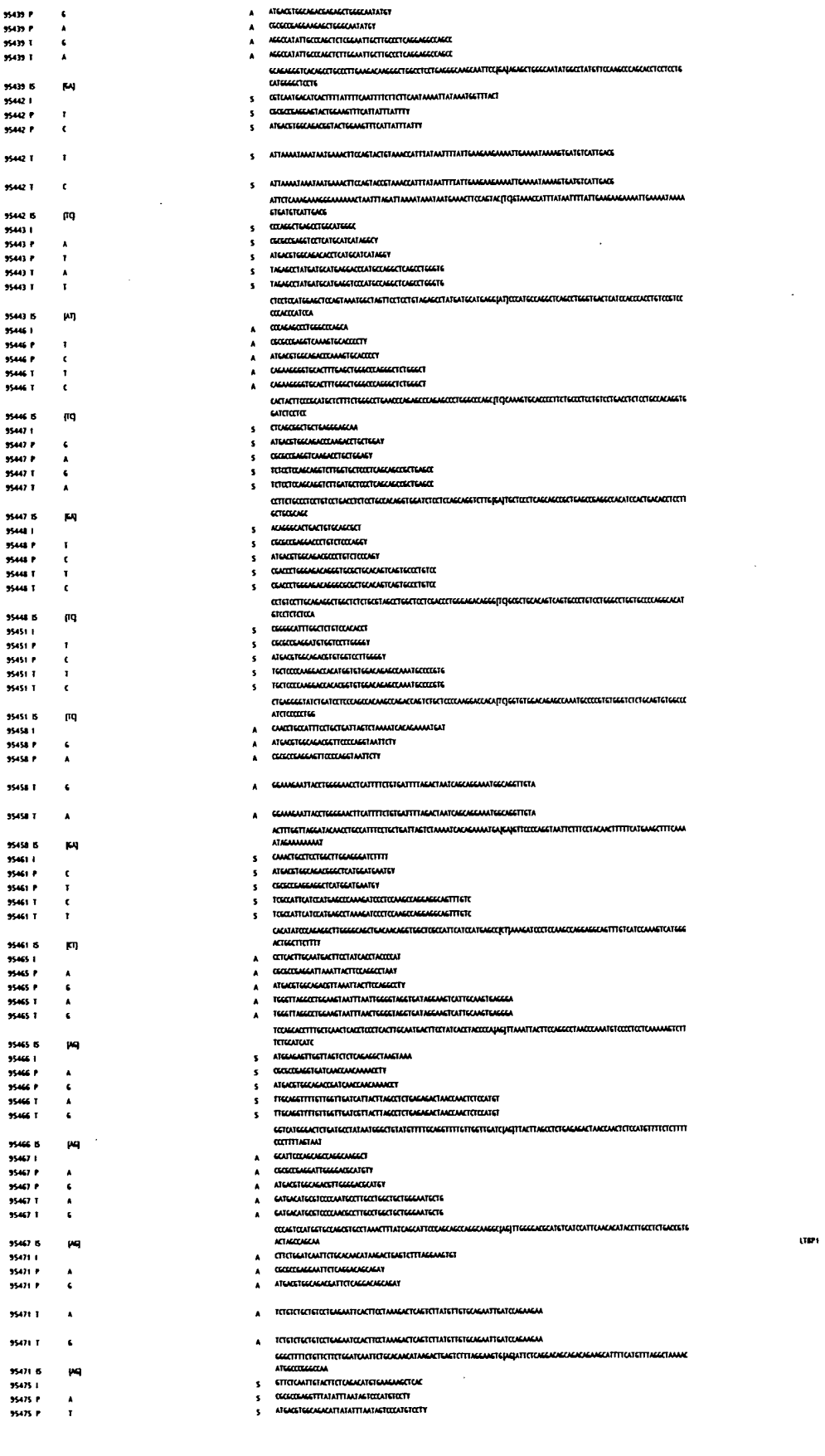
FIGURE 129C



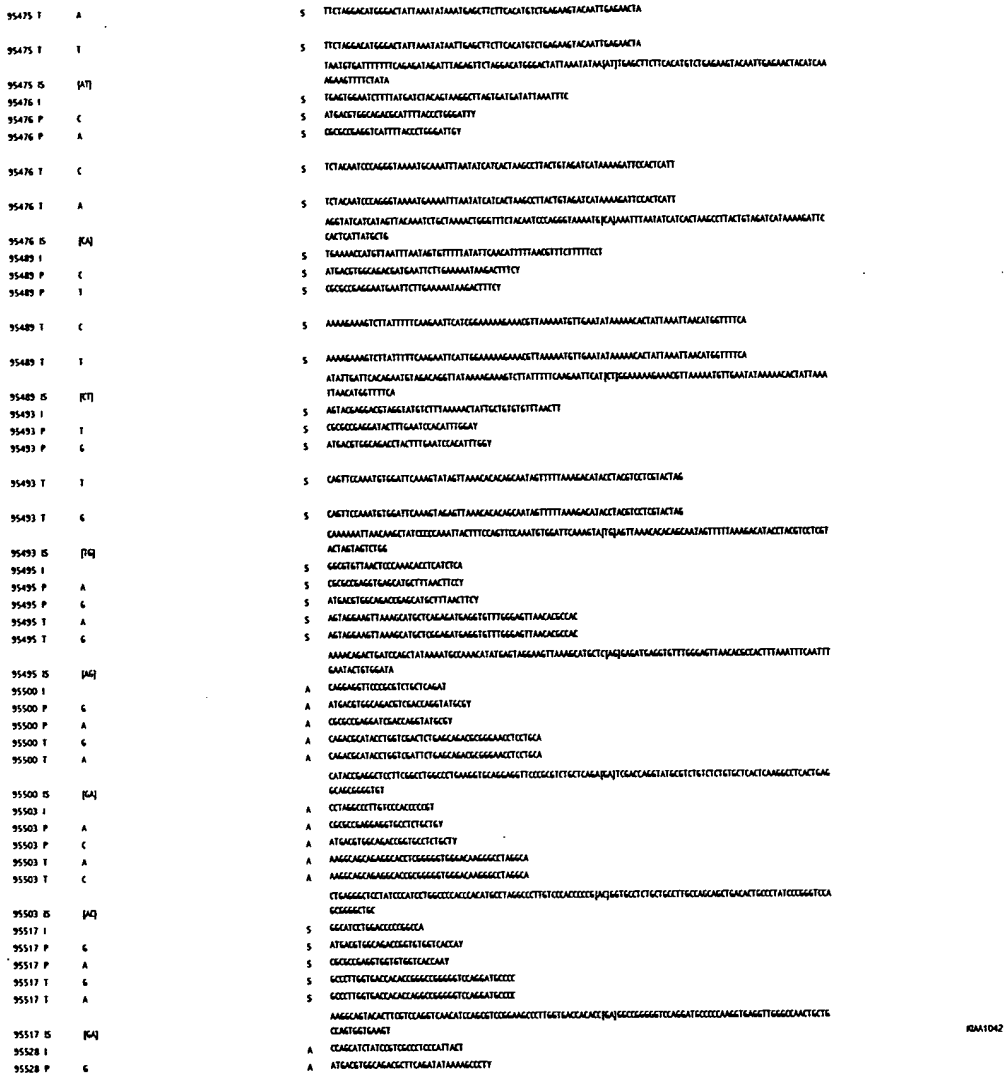





MULTIPLE SHORT GENE NAMES

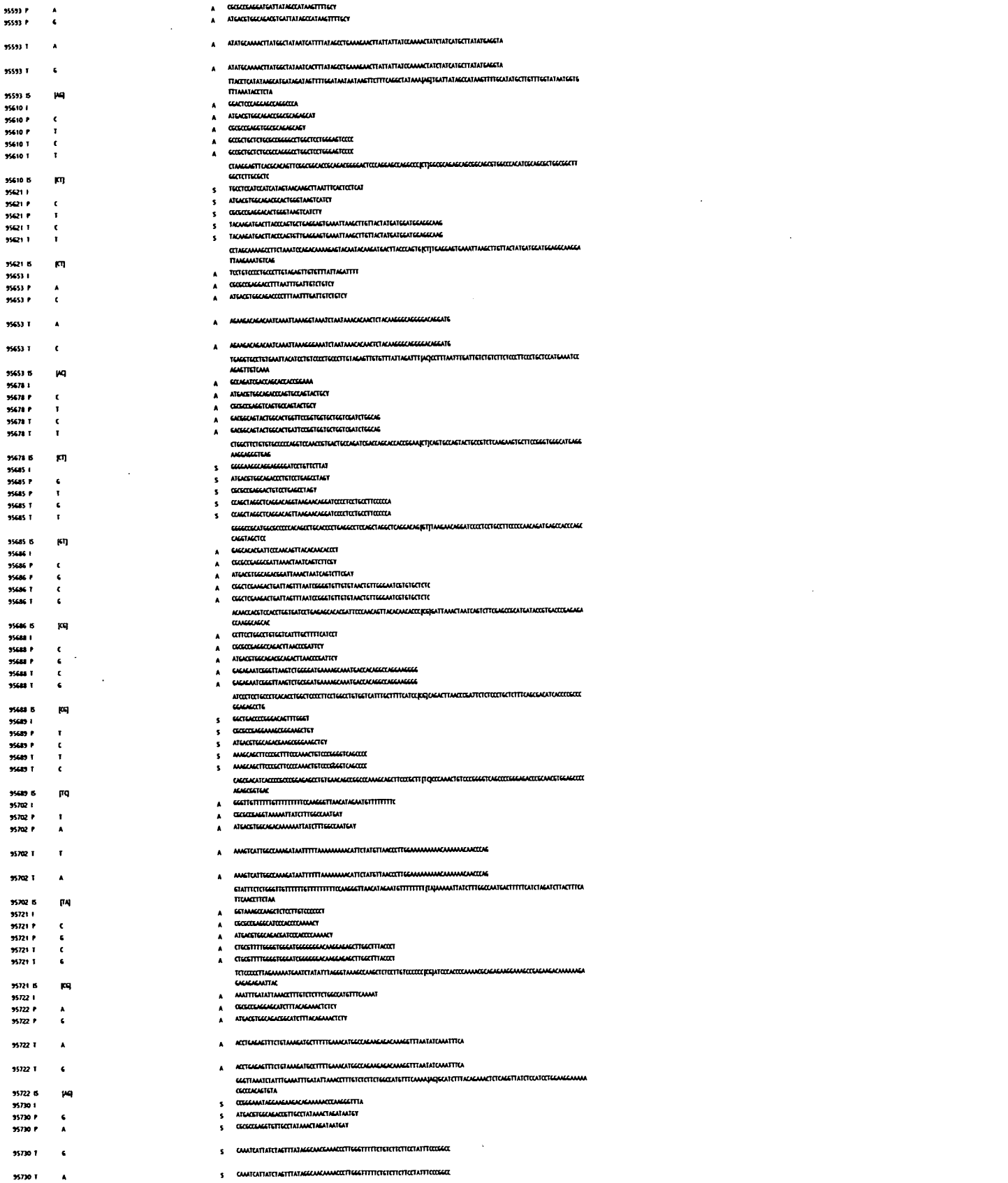


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FIGURE 129C



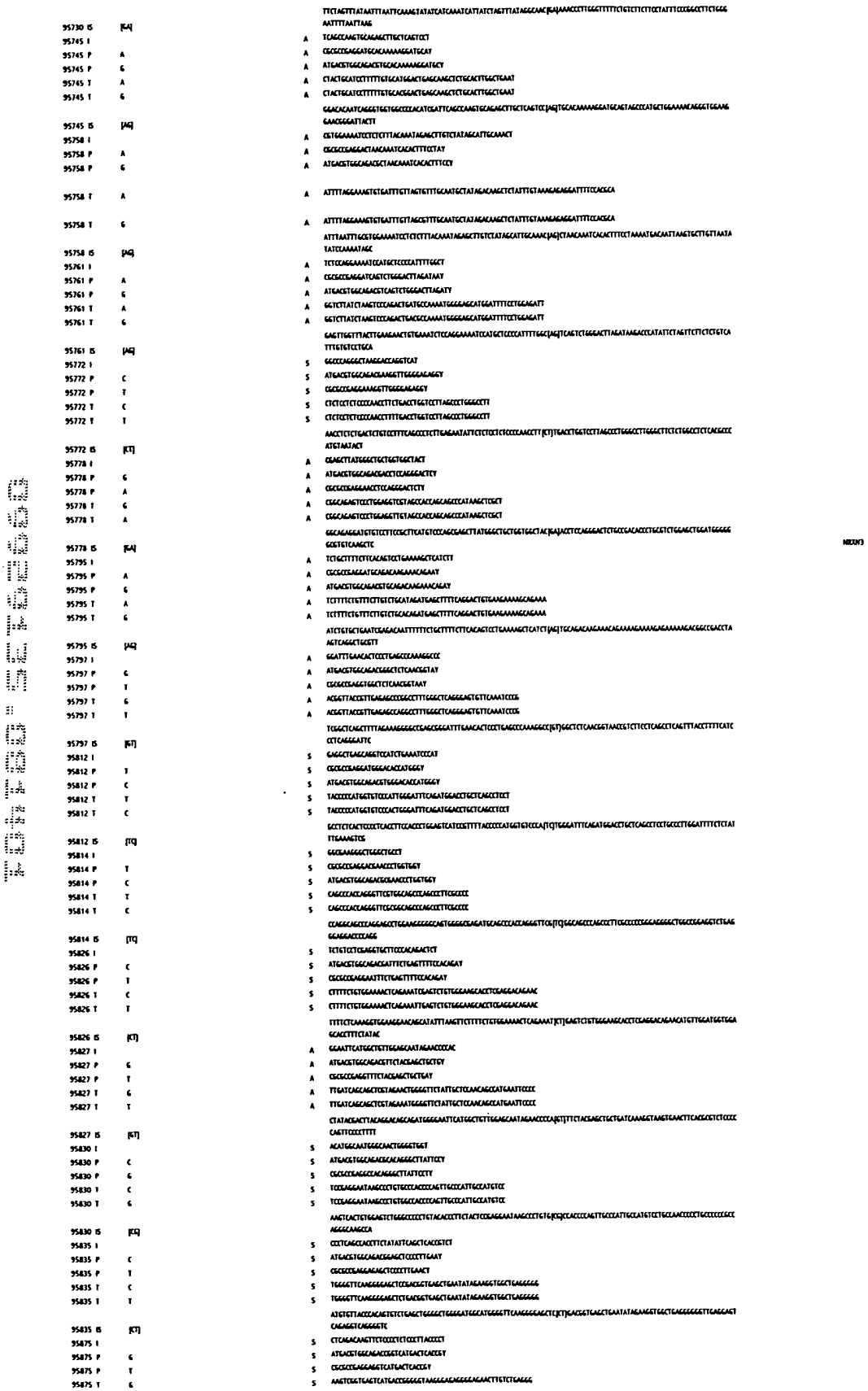
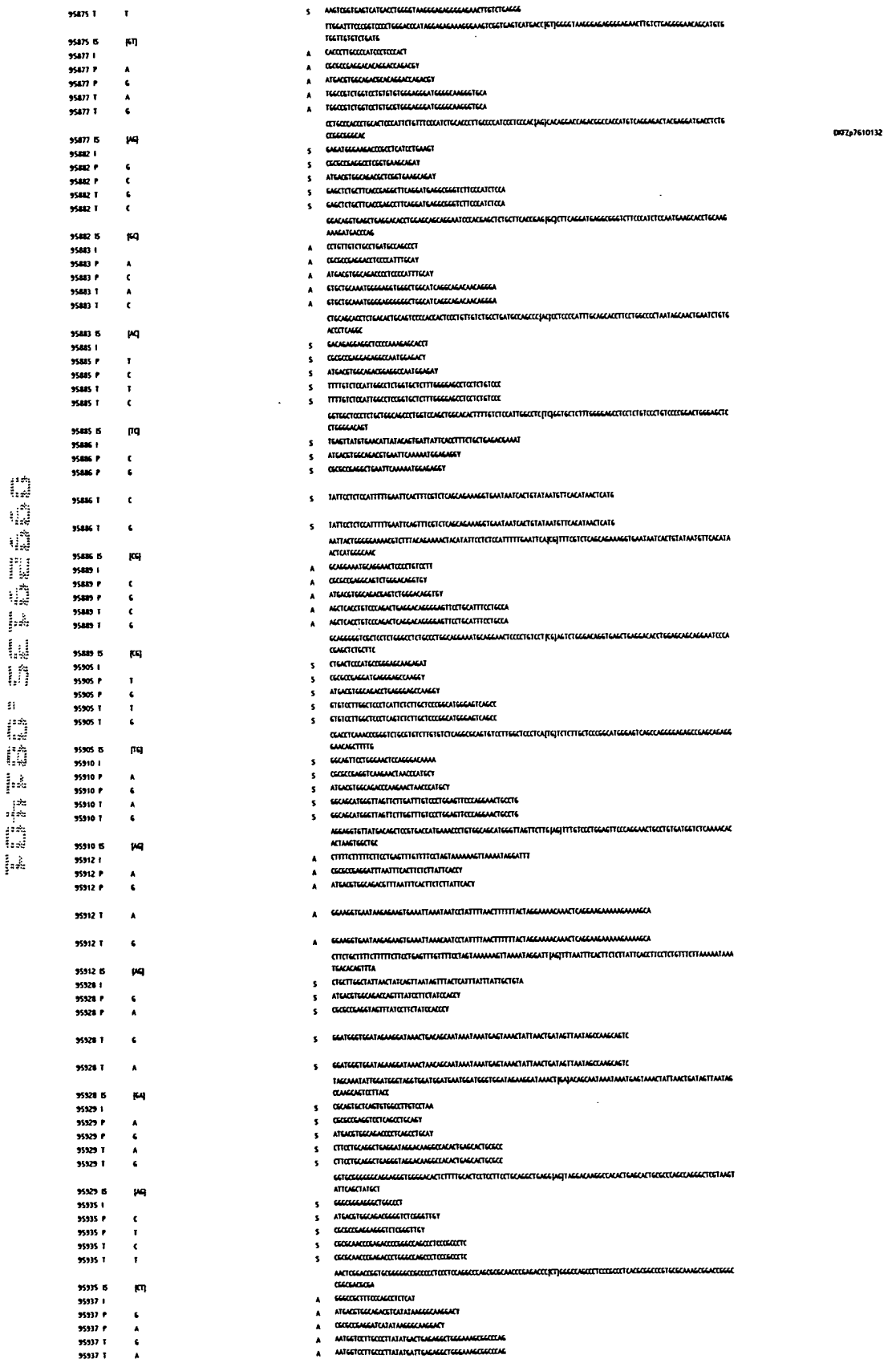
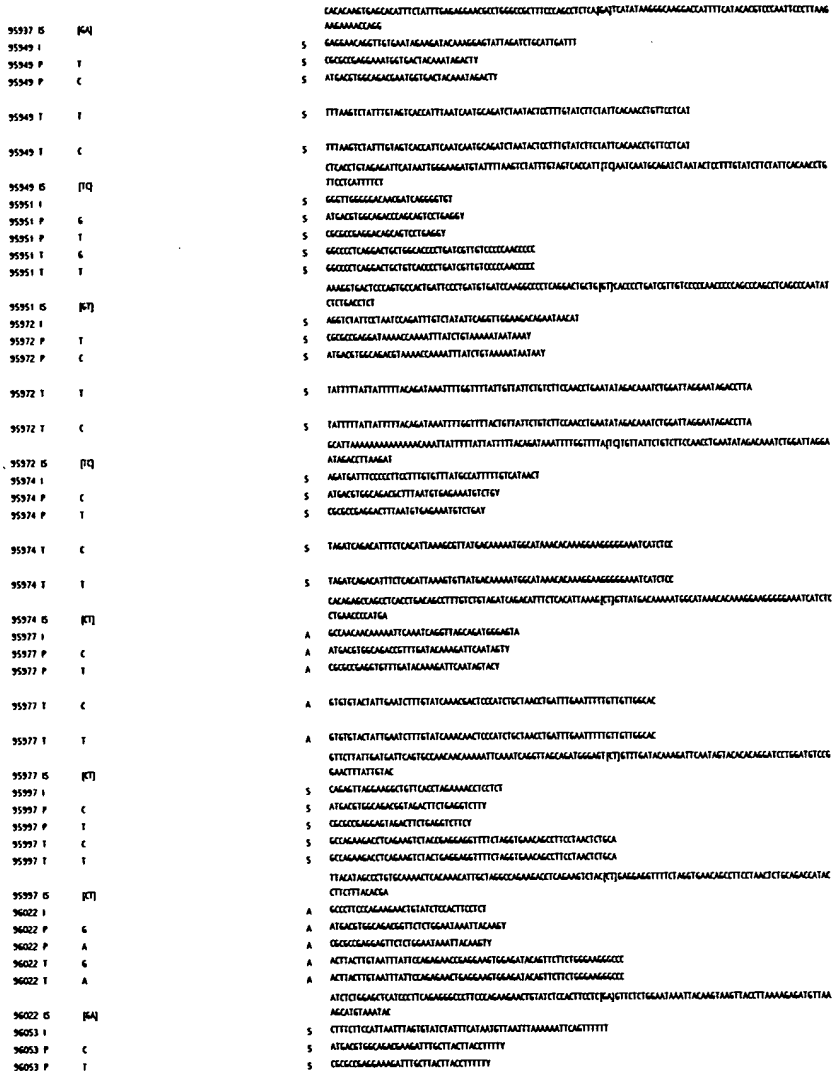


FIGURE 129C





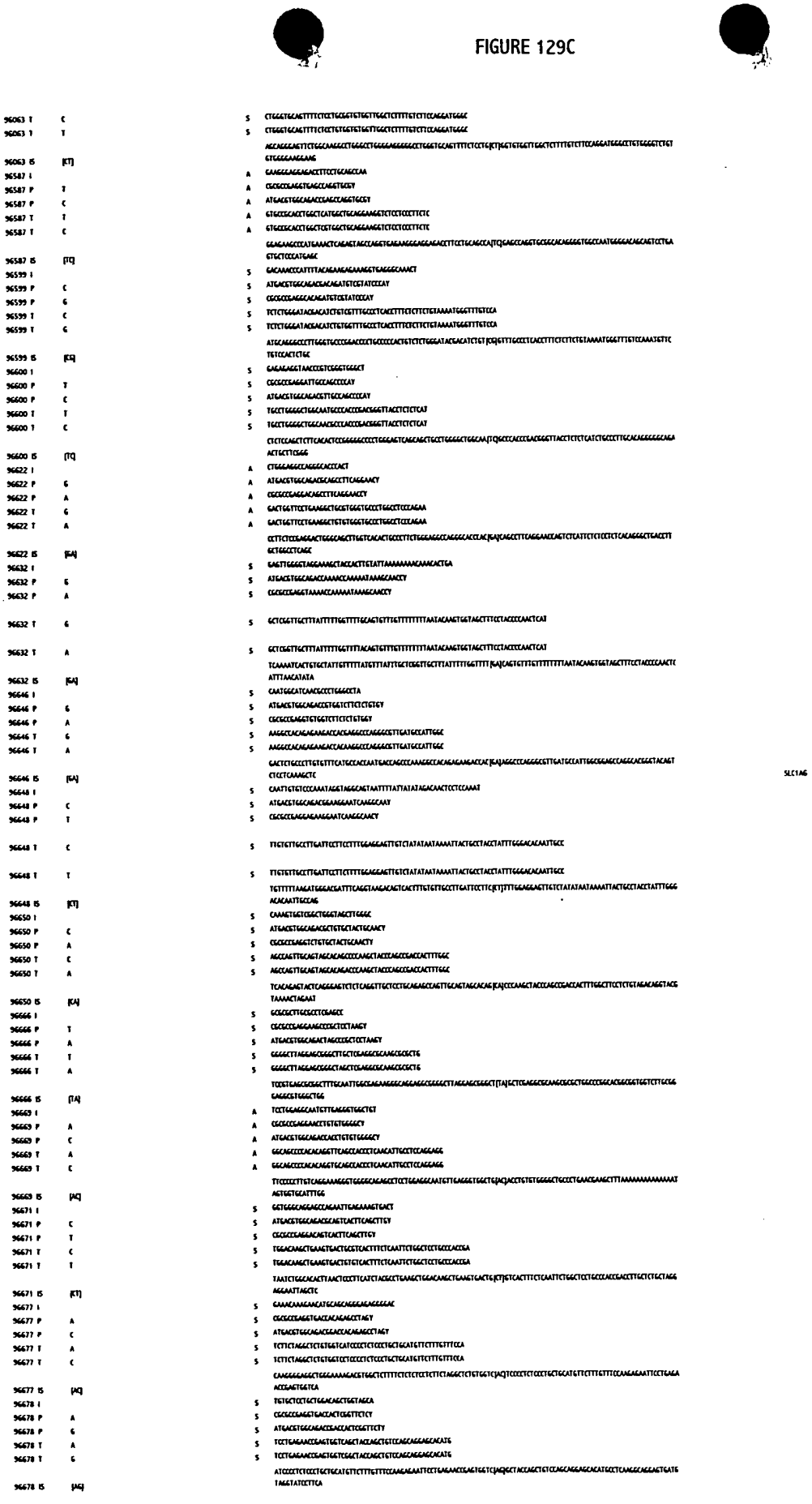


FIGURE 129C

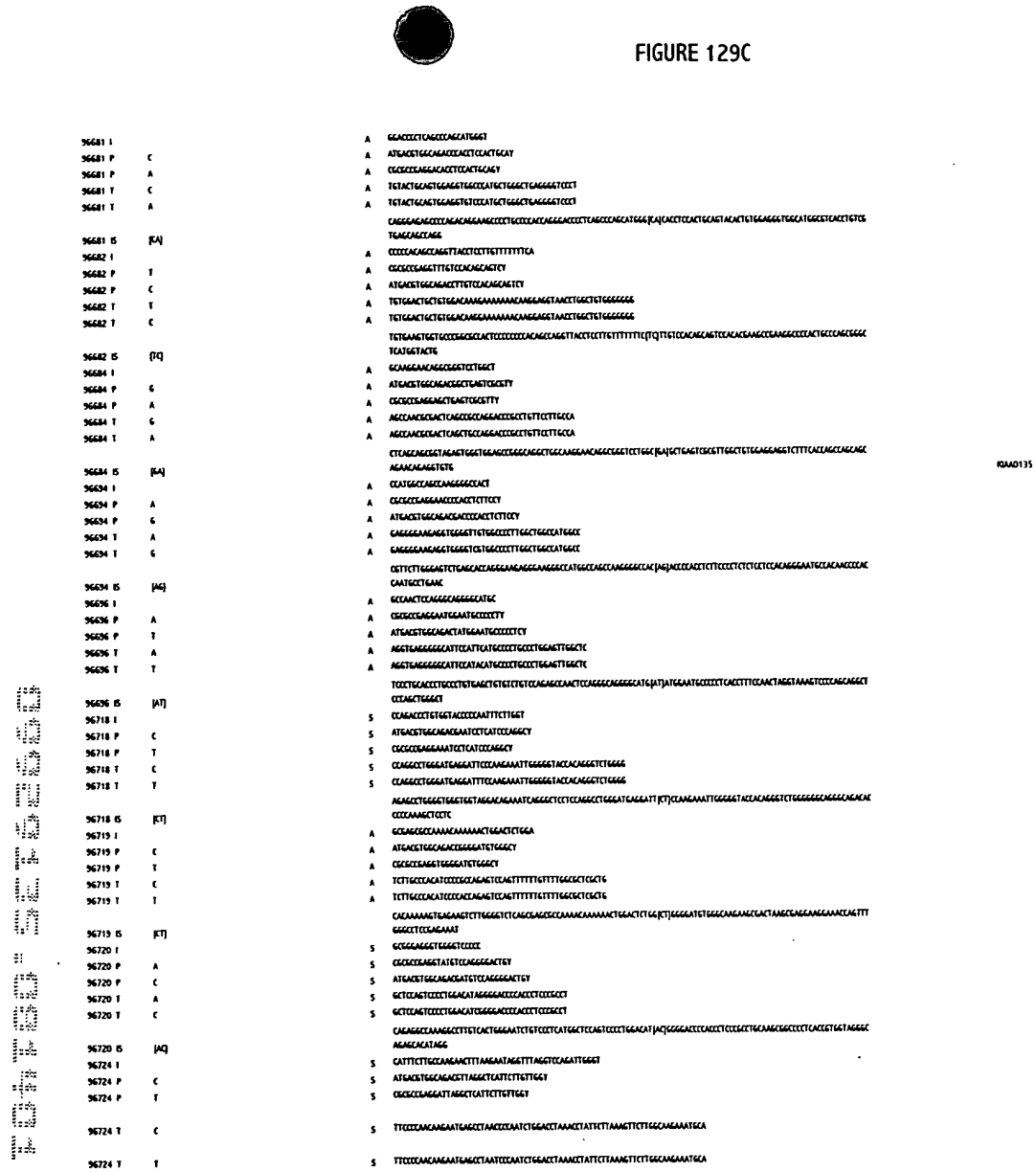


FIGURE 129C

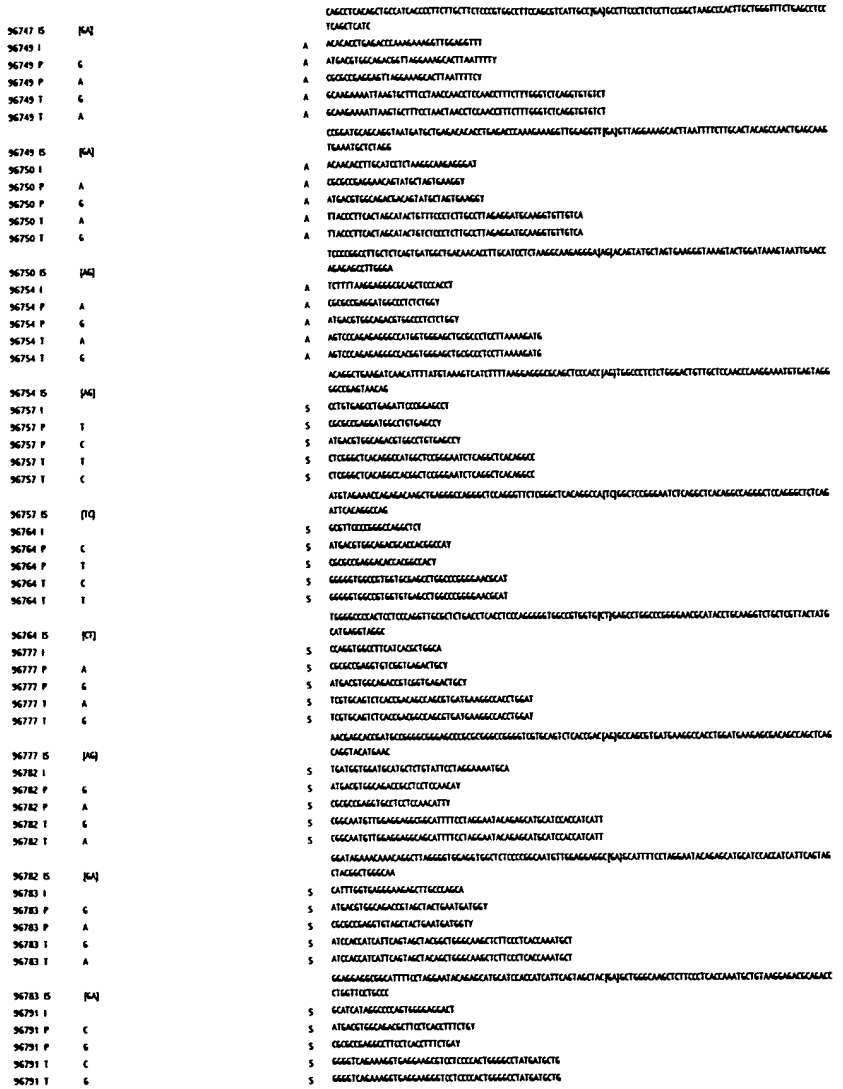
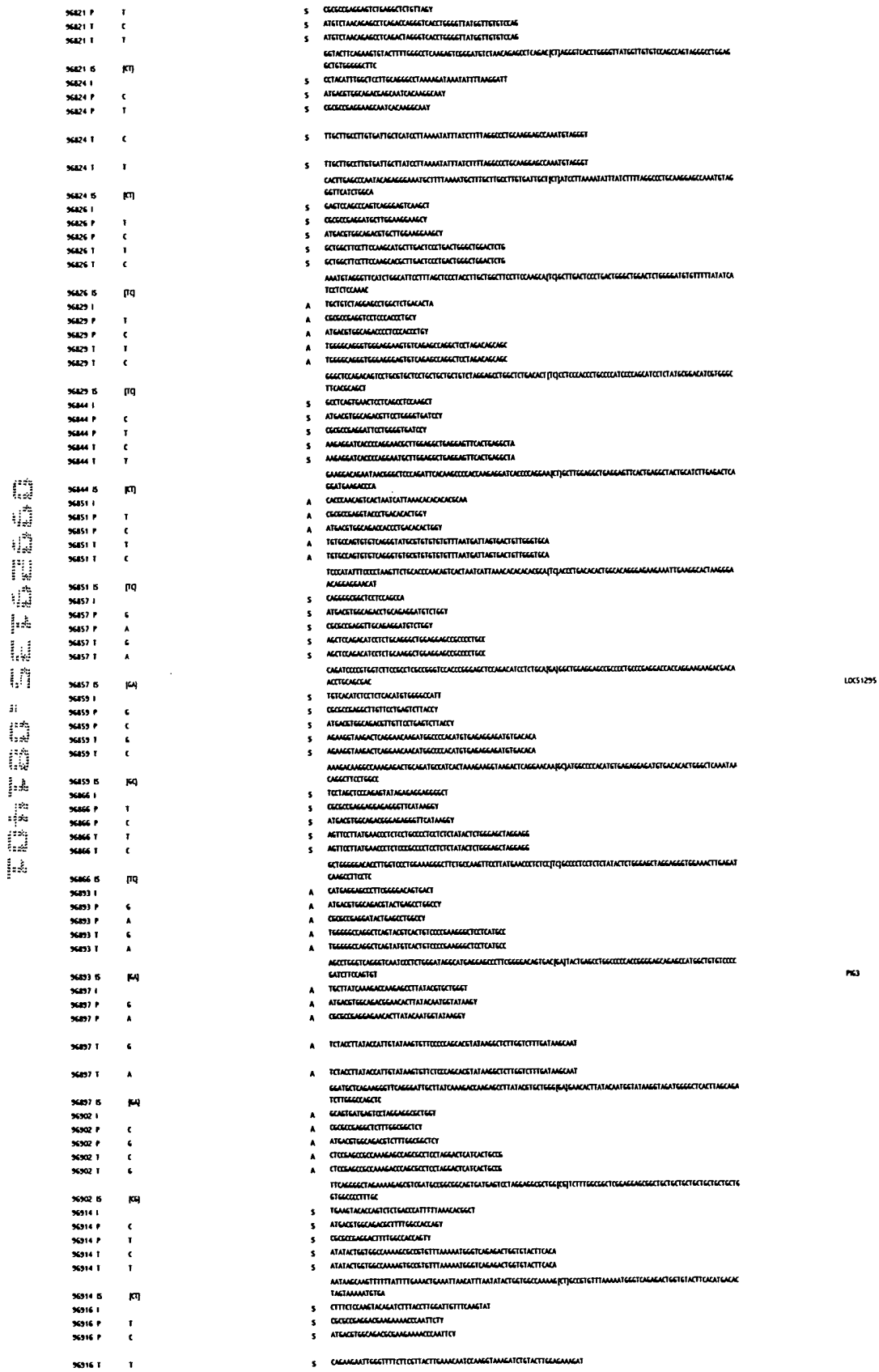
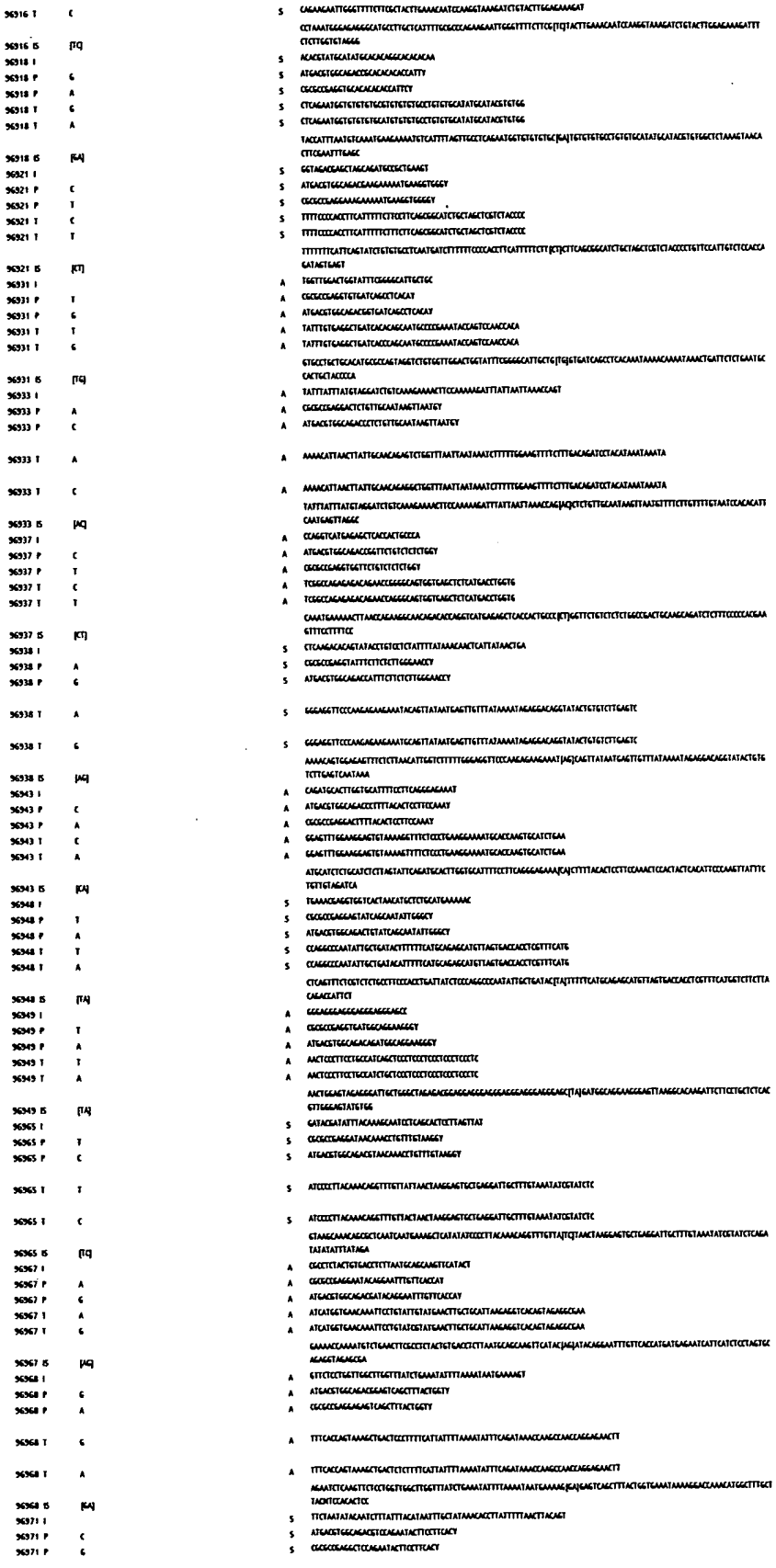


FIGURE 129C





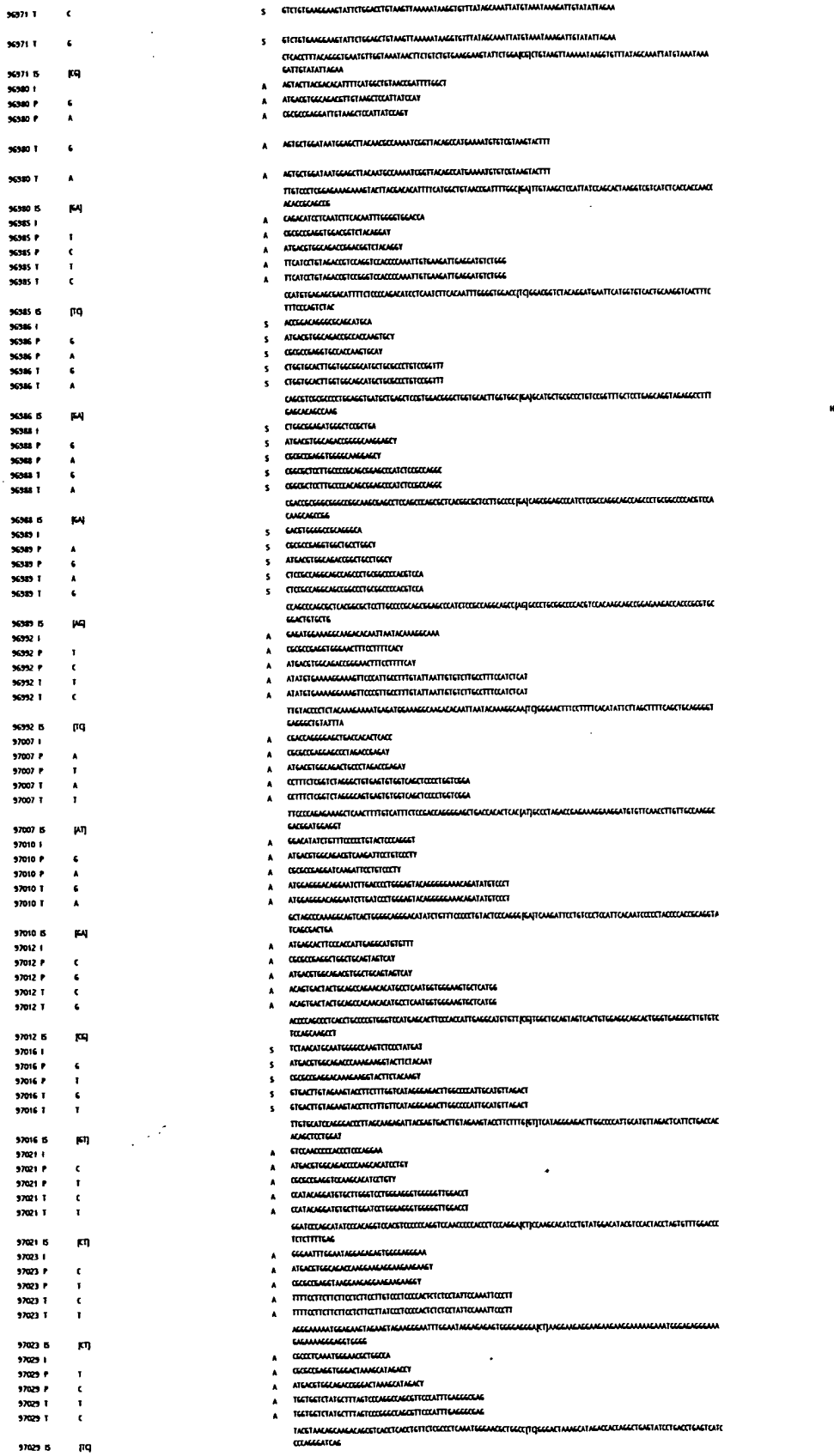


FIGURE 129C

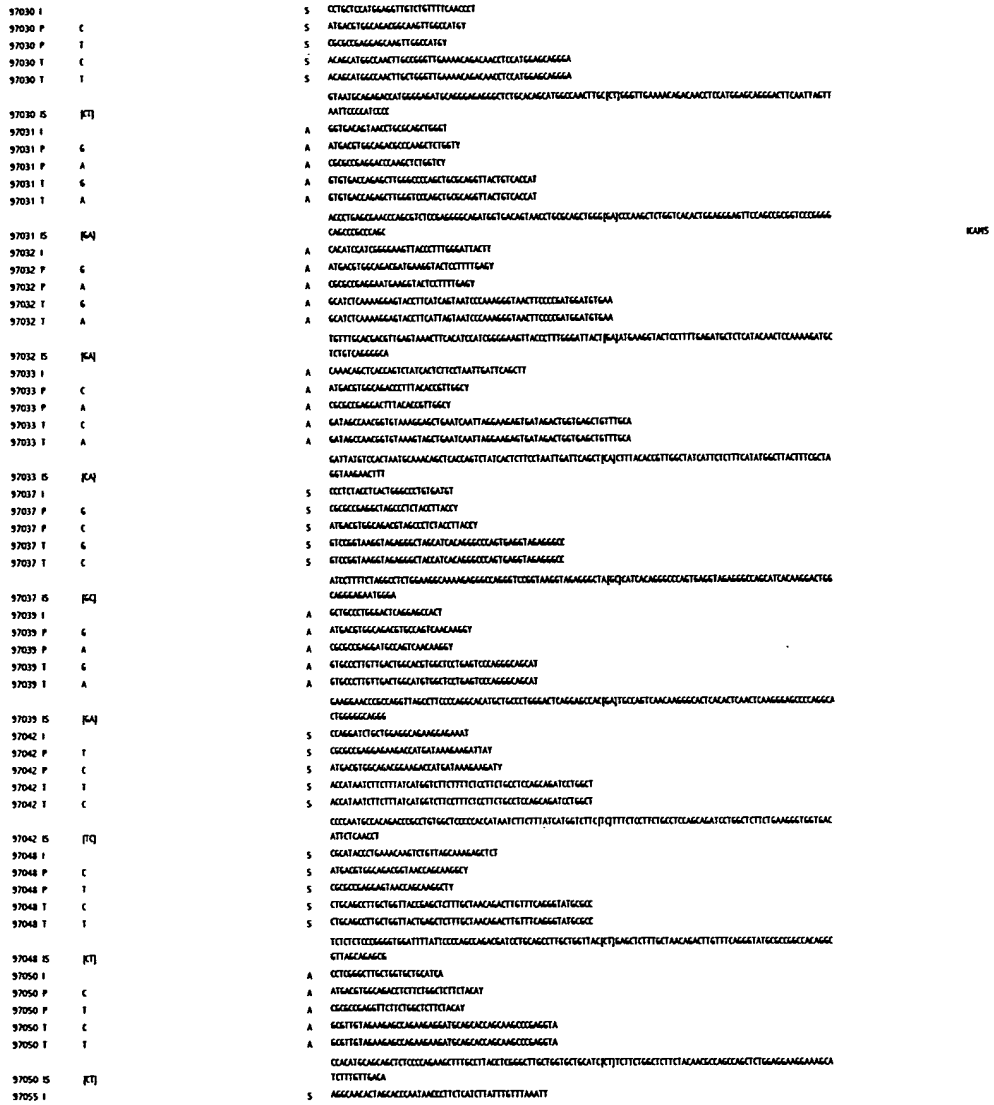


FIGURE 129C

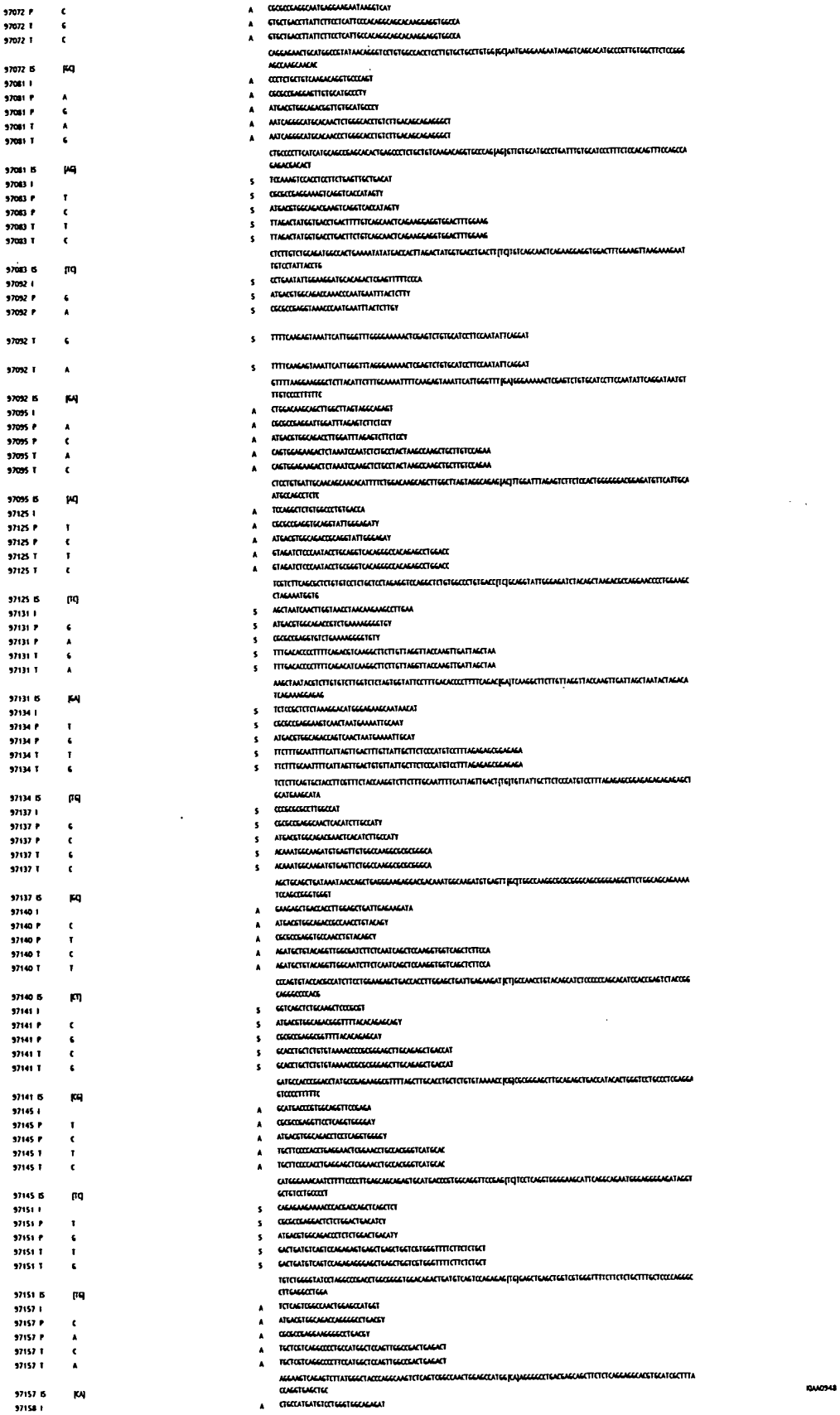


FIGURE 129C

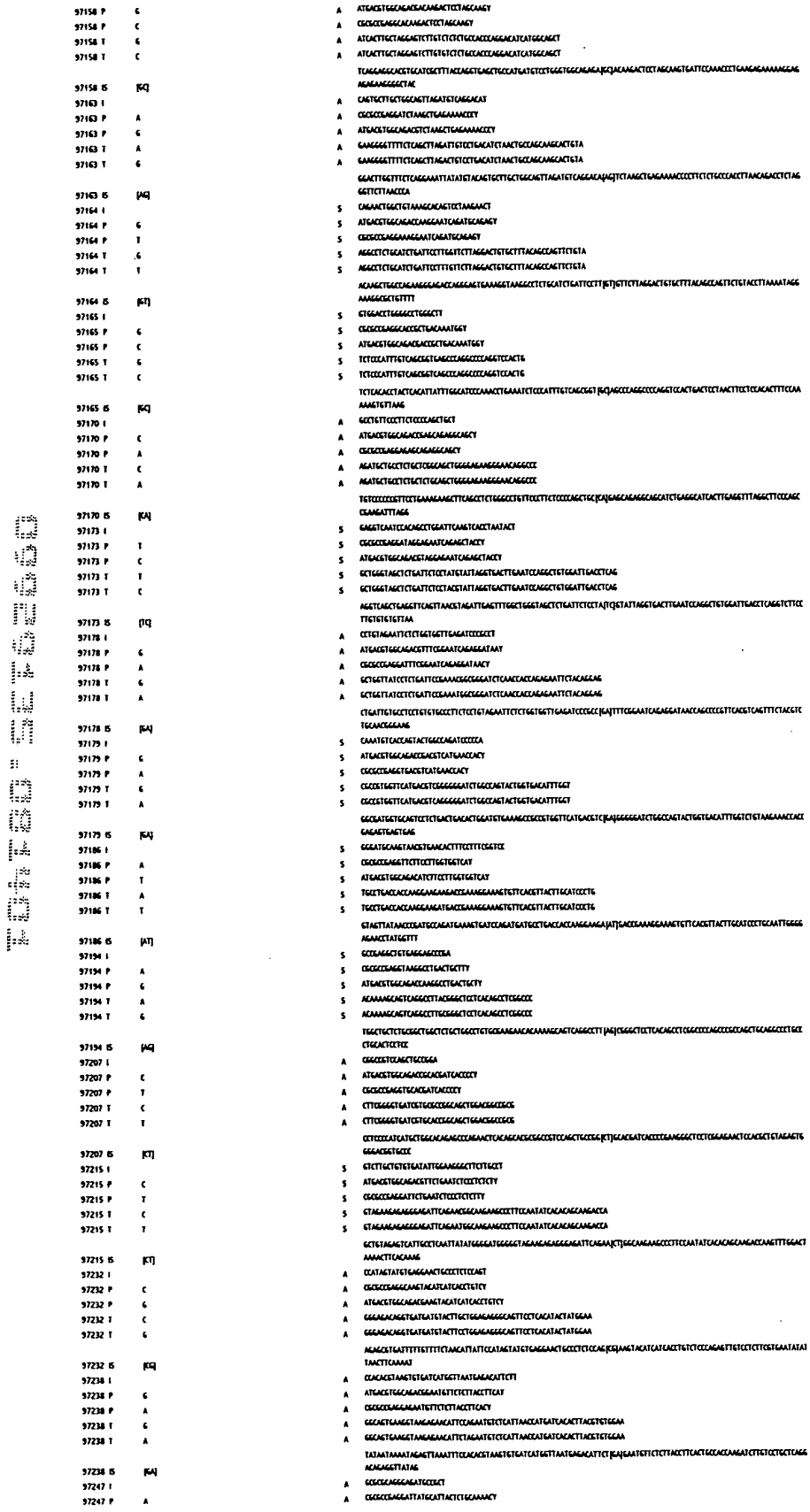
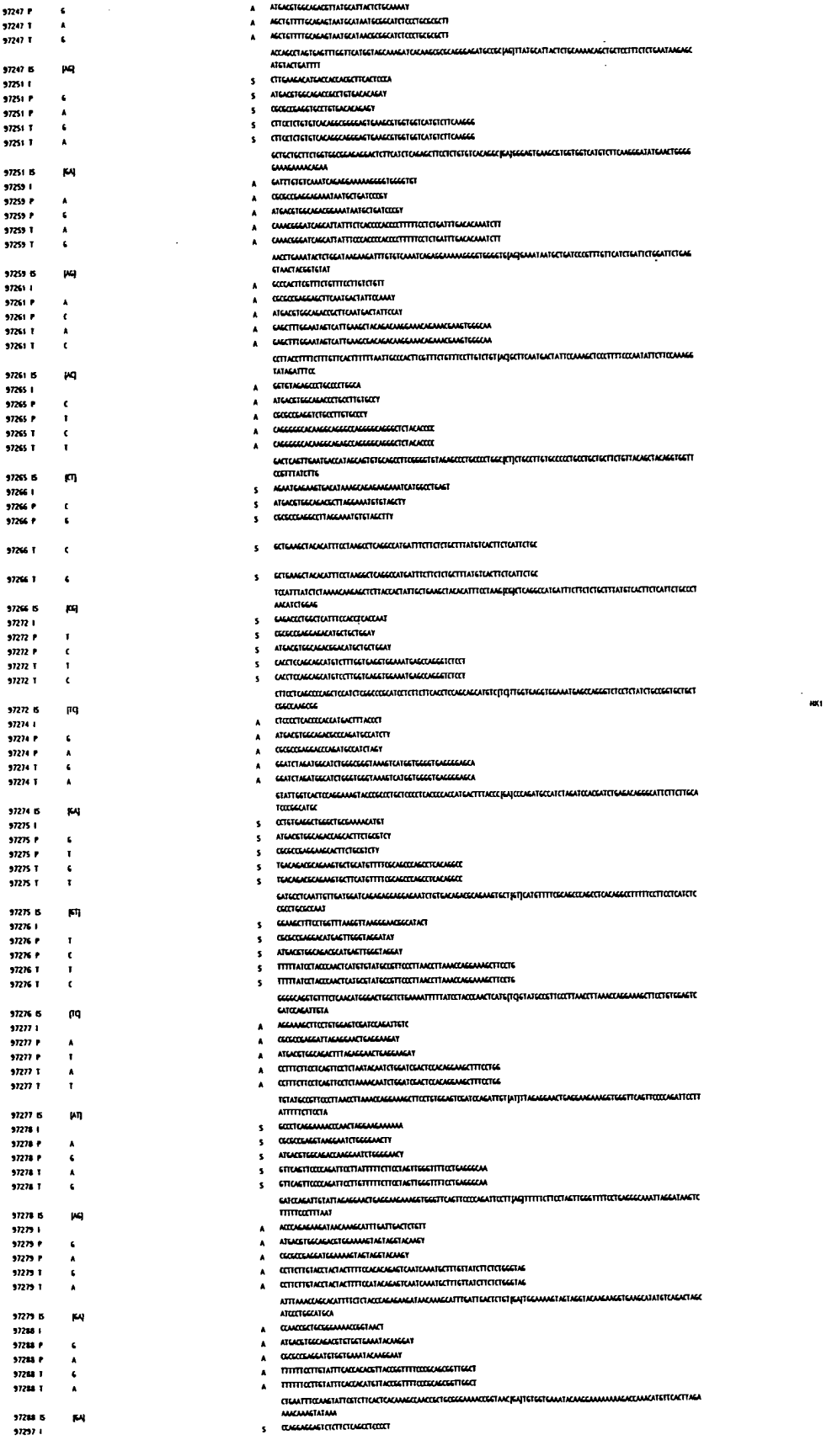
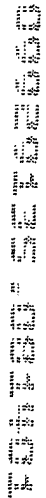


FIGURE 129C

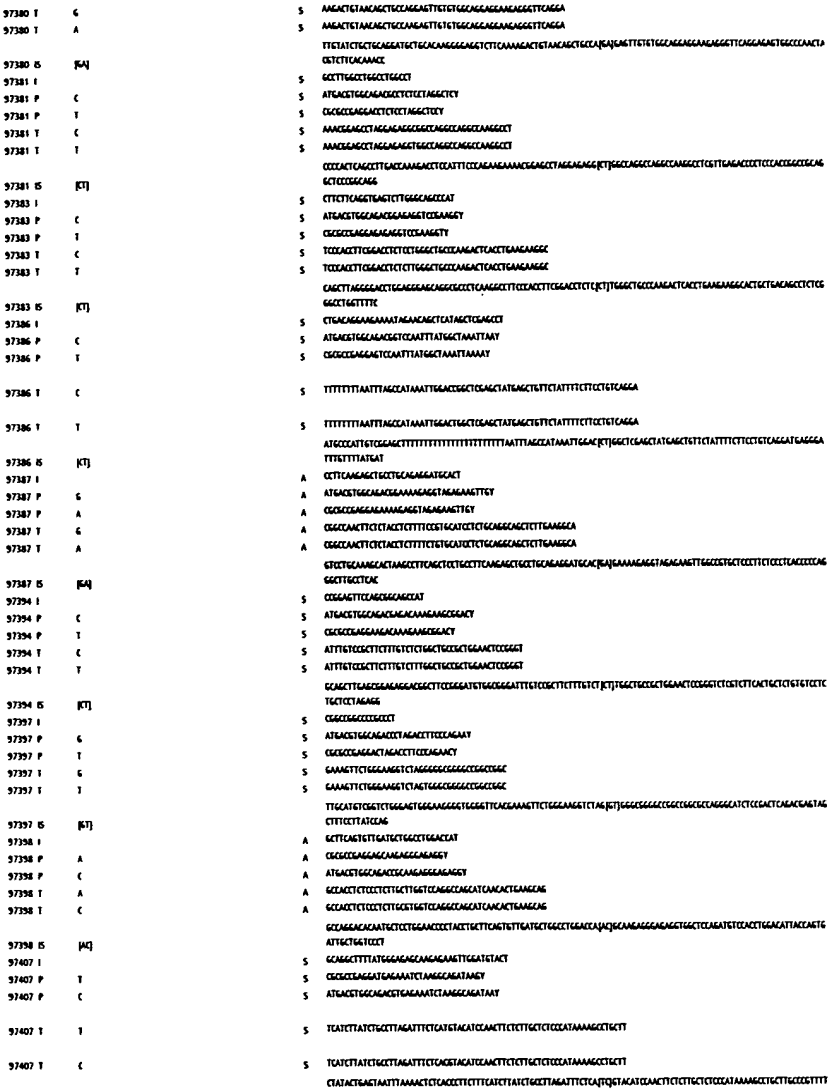




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97297 IS [GC] GATCATGCAGTACTCGCTGCTGCTGCCTCGAACACTCTTCCAGAGGACGAAAGGCCCGCAG[GC]GCGGCAGGCTGAGAAGAGACTCCTCCTGGTGGACTTCAGCAGCCAAGC CCTGTTCCAGGTA
97301 I S AAAGTTCCCCCTTCCCACTTAATTTCCTCTTTGTCCTCT
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97301 T C S AGGCAGAAAAGAACAGAAGAAGAAGAACAGGACAAAGAGGAAATTAAGTGGGAAGGGGGAACTTTTGC
97301 IS [TC] CTGCATTGAACAAAATTCAAGGTTAAGTCAAGGAAGGCAGAAAAGAACAGAAGAAGAAGAA[TC]CAGGACAAAGAGGAAATTAAGTGGGAAGGGGGAACTTTTGCTTA ATTTTCAGCAGCACT
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97302 P T S CGCGCCCAGGAGTGAACTTACGTCTTCCTY
97302 P C S ATGACGTGGCAGACGTGAACTTACGTCTTCCY
97302 T T S AGGAGGAAGACGTAAGTTCACTGTTAGGGTGGACTGAAAGACATGTCACACAGAGCCTG
97302 T C S AGGAGGAAGACGTAAGTTCACGTTAGGGTGGACTGAAAGACATGTCACACAGAGCCTG
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97303 P G S ATGACGTGGCAGACCTCCAACCACGTY
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97334 P C A ATGACGTGGCAGACCGAAGCCCCTTACCY
97334 P T A CGCGCCGAGGTGAGGCCCCTTACCY
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97337 P T S CGCGCCGAGGATATAACTTTCAAGCAGTCATCY
97337 T G S GATTGGATGACTGCTTGAAAGTTATAGGAAACTGTGTAATTCAGCTTGCAGAAATTAAGTTCCCTGCTTCATG
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97342 I S TCAAGTAGTCTGGAAGGAGAAACAGCTAACCCAGTT
97342 P C S ATGACGTGGCAGACGGATGATGGAAAACCTGTTY
97342 P T S CGCGCCGAGGAGATGATGGAAAACCTGTTTY
97342 T C S TAGAAAACAGGTTTTCCATCATCCACTGGGTTAGCTGGTTCTCCTTCCAGACTACTTGAGC
97342 T T S TAGAAAACAGGTTTTCCATCATCTACTGGGTTAGCTGGTTCTCCTTCCAGACTACTTGAGC
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97367 P A S CGCGCCGAGGTGGAGGTAACGGGATGY
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97370 I S CCCTATGGACCTGAGCTTTATCAAACTCACCCCAACT
97370 P C S ATGACGTGGCAGACGCAAGAAGCAATGGTGGY
97370 P T S CGCGCCGAGGACAAGAAGCAATGGTGGY
97370 T C S TTGTCCACCATTGCTCCTTGCGATGGGGTGAGTTTGATAAAGCTCAGGTCCATAGGGGC
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97370 IS [CT] TCGATCCCGCCCACACATTATGTGCATTTTCTGCCAACTTGTCCACCATTGCTTCTTG[CT]GATGGGGTGAGTTTGATAAAGCTCAGGTCCATAGGGGCAGGCTTGTAT CCACTTGTCAGC
97373 I S GCTGCAGGATGGGGGCGGAGCT
97373 P C S ATGACGTGGCAGAGCCTGTGGGGCAGACGY
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97373 T C S TTCCCGTCTGCCCACAGCGCTCCGCCCCCATCCTGCAGCGC
97373 T T S TTCCCGTCTGCCCACAGTGCTCCGCCCCCATCCTGCAGCGC
97373 IS [CT] CGGCGAATTTCTCAATTCGGAACTCTGTGAGCGTCCCACATCTCCTCCGCTCTGCCCACAG[CT]GCTCCGCCCCCATCCTGCAGCGCTGAACTTCCTGCACCTGGGTAAGCGCCT CTCGCCTGGC
97377 I A TGCAGCTGCAGCCCCAGCCTT
97377 P G A ATGACGTGGCAGACGTGCTCCCTCCTCCY
97377 P A A CGCGCCGAGGATGCTCCCTCCTCCTCCTY
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97378 T G A TGCGACACAGCCAGCTCTGCACCAGCAGCTCGGGGTGCAGG
97378 T A A TGCGACACAGCCAGCTCCGCACCAGCAGCTCGGGGTGCAGG
97378 IS [AG] ACCCCCAGGGCCCCTCTCGCCTAGCCTGAAGCGGCCCCTGCACCCCCAGCTGCTGGTGC[AG]CAGCTGGCTGTGTCCCCAGGTGTCAGGTGCTGCAGGCACCCGGCAGCC GTGCCCTCGGC
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RYR2

FIGURE 129C



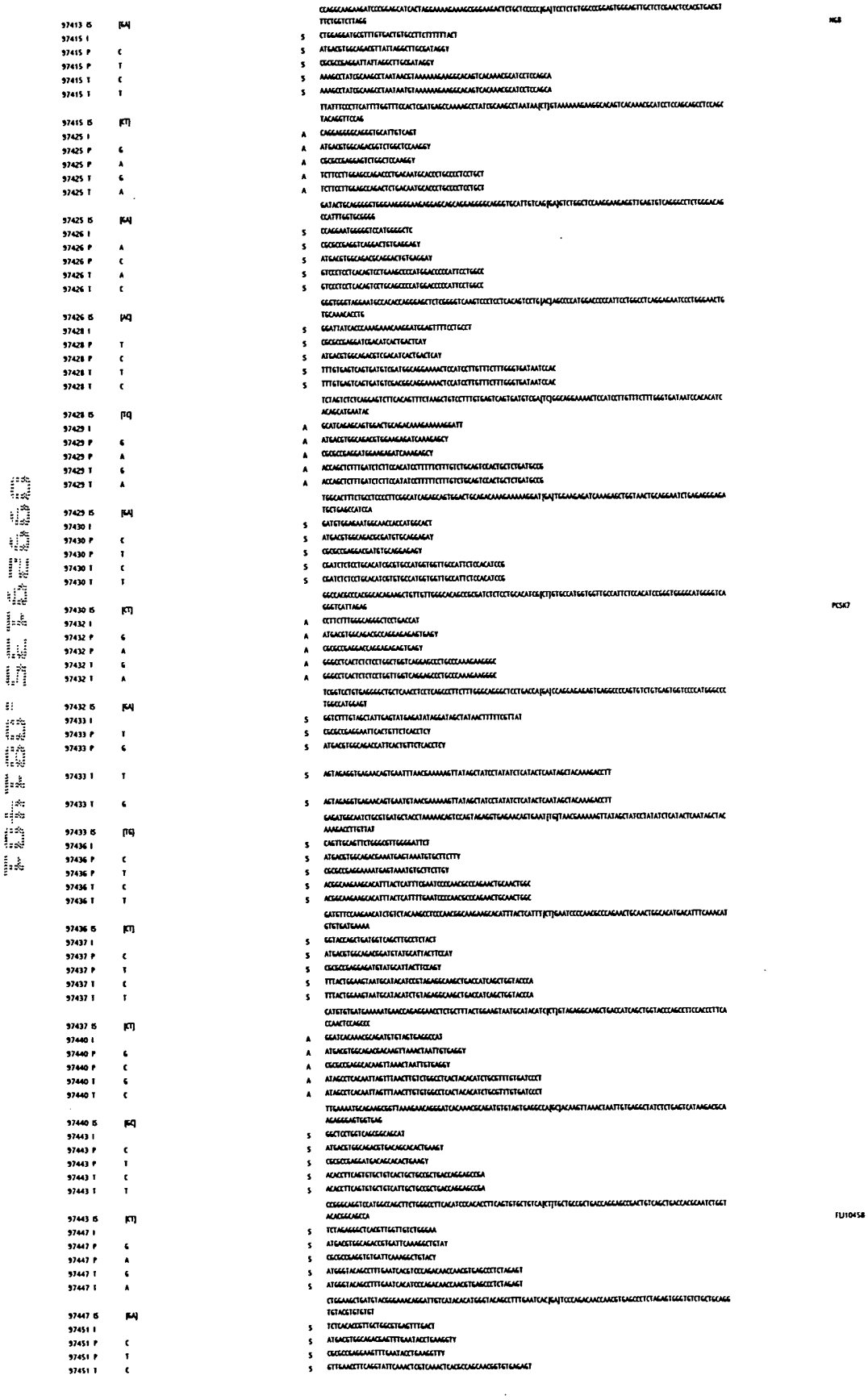
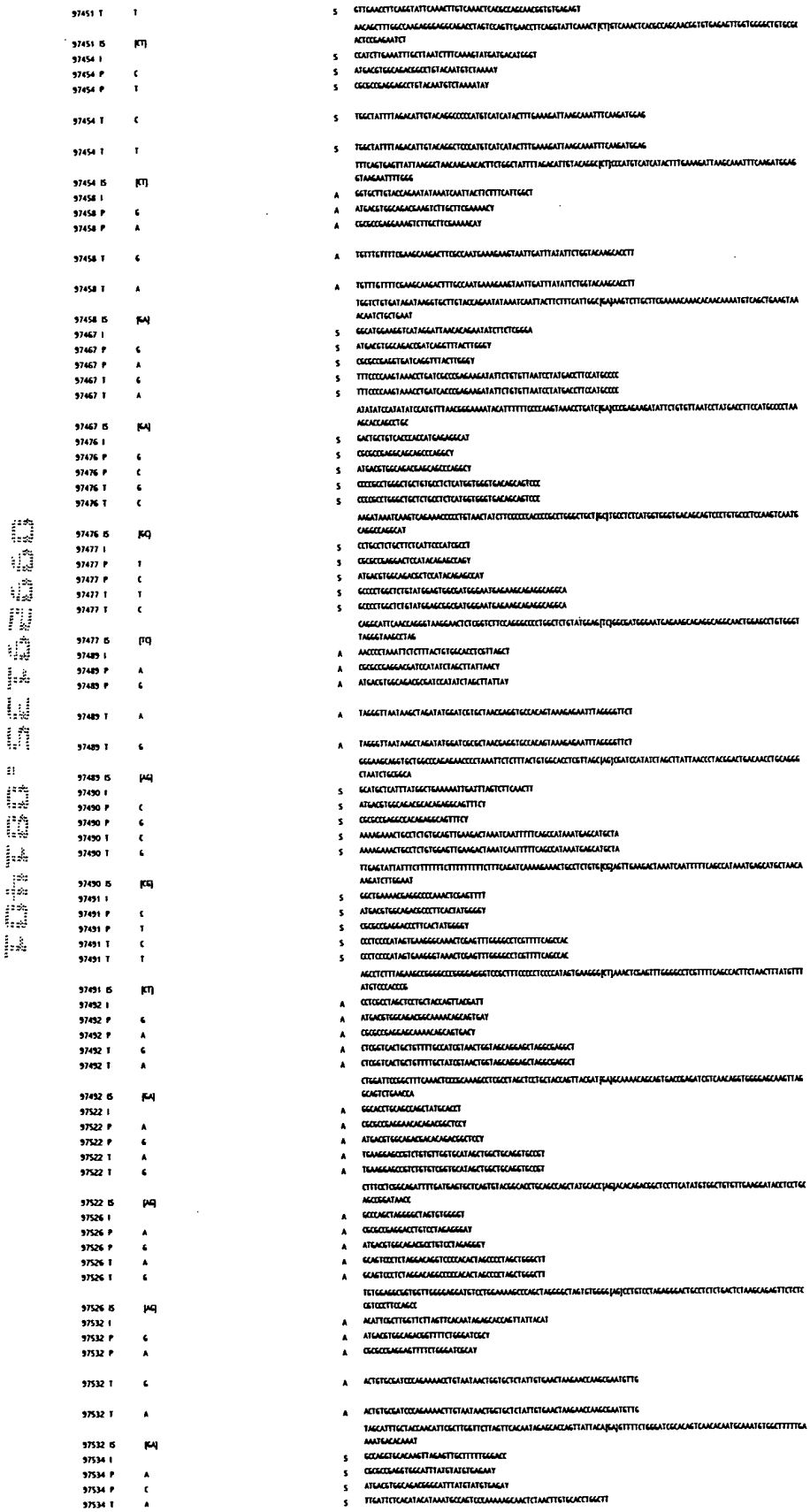
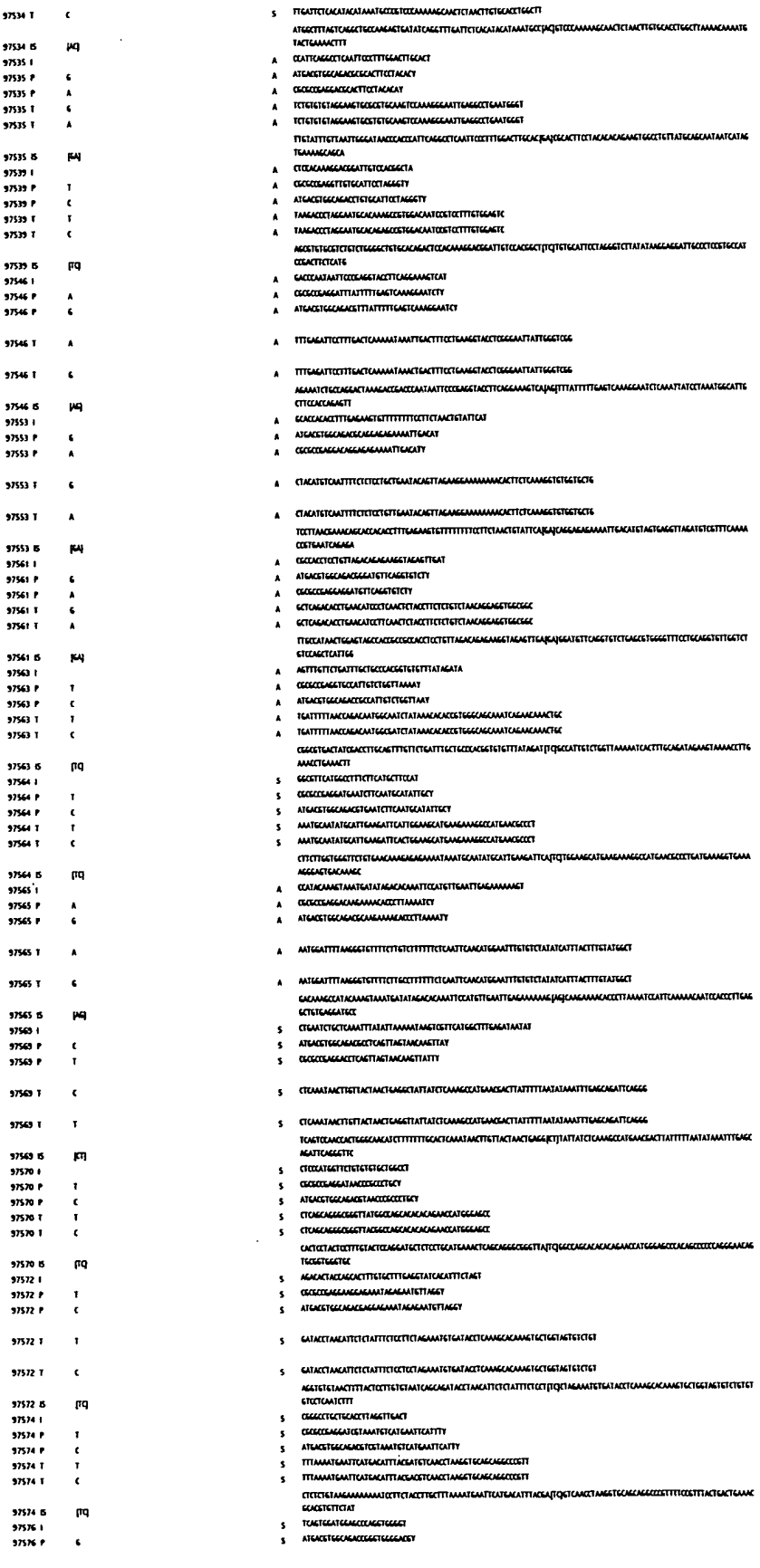
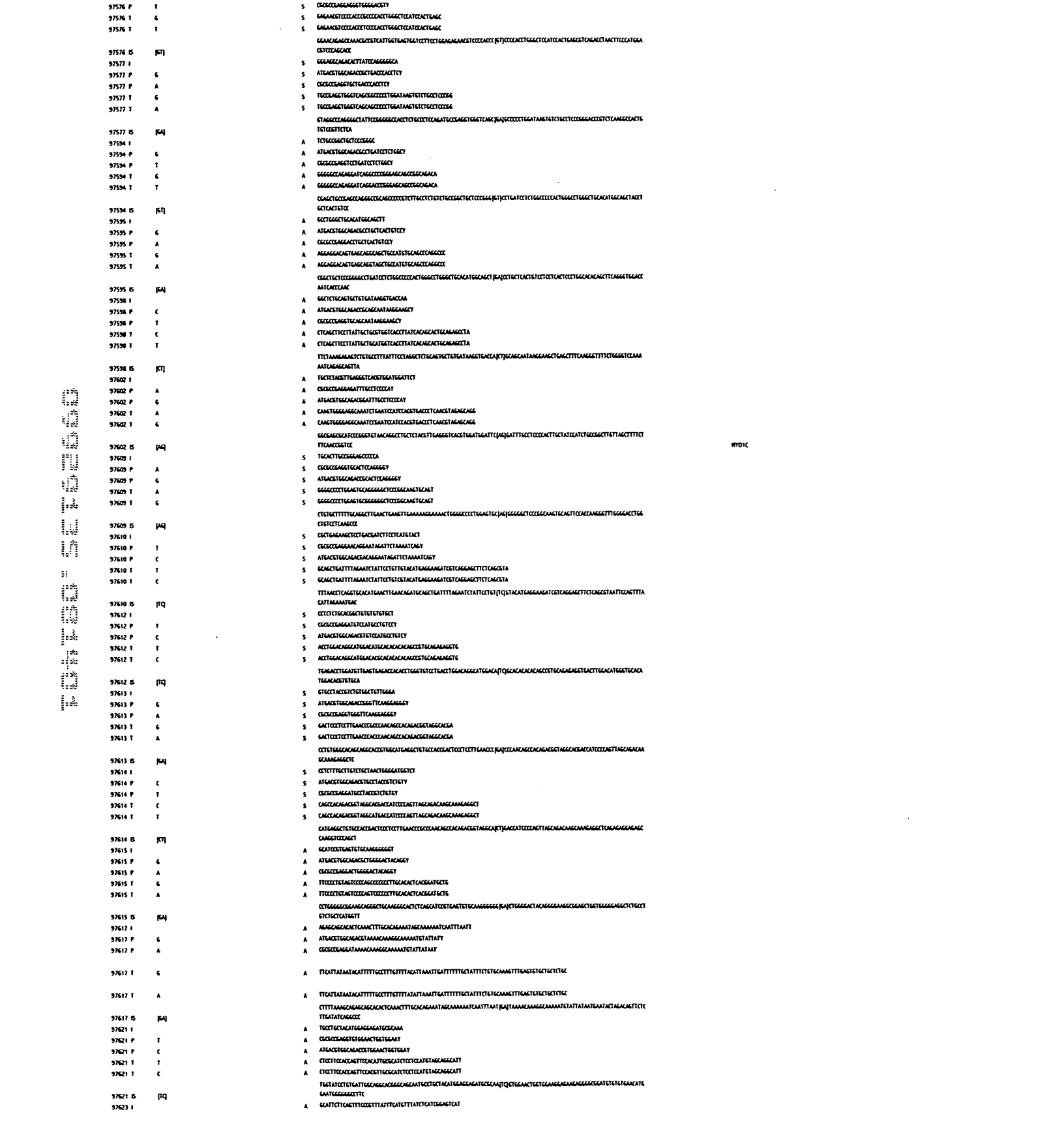
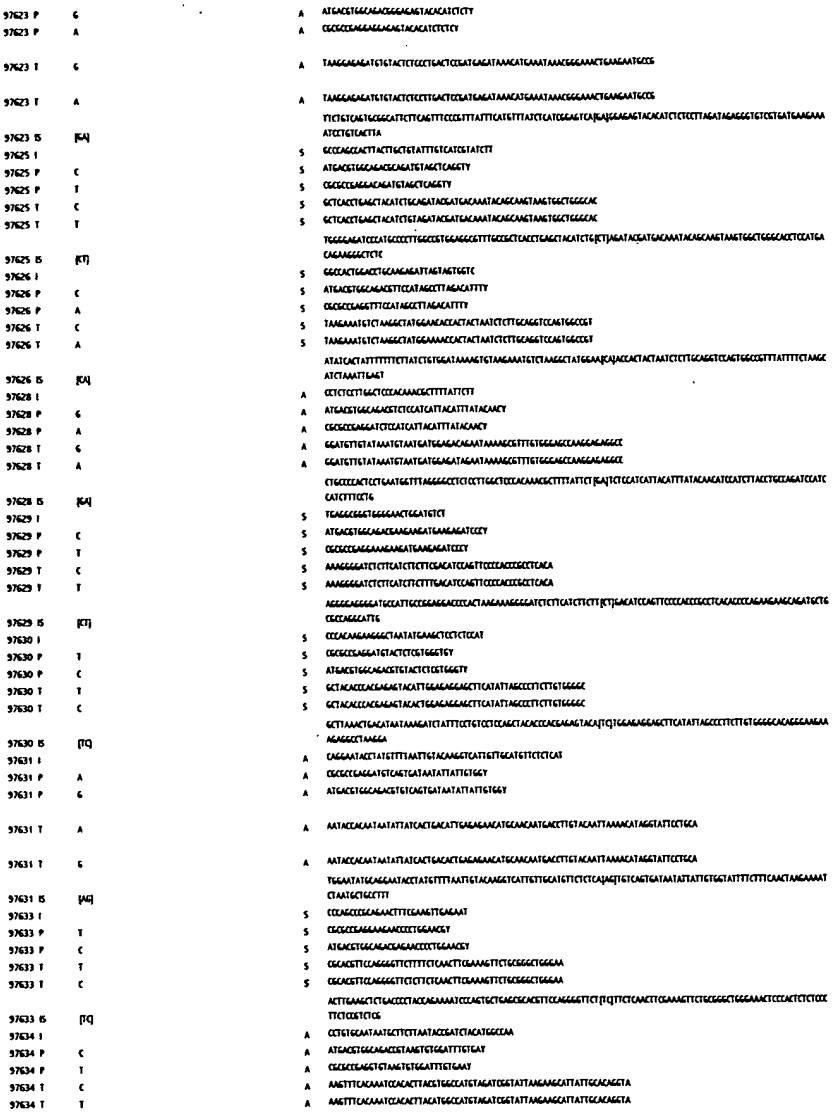


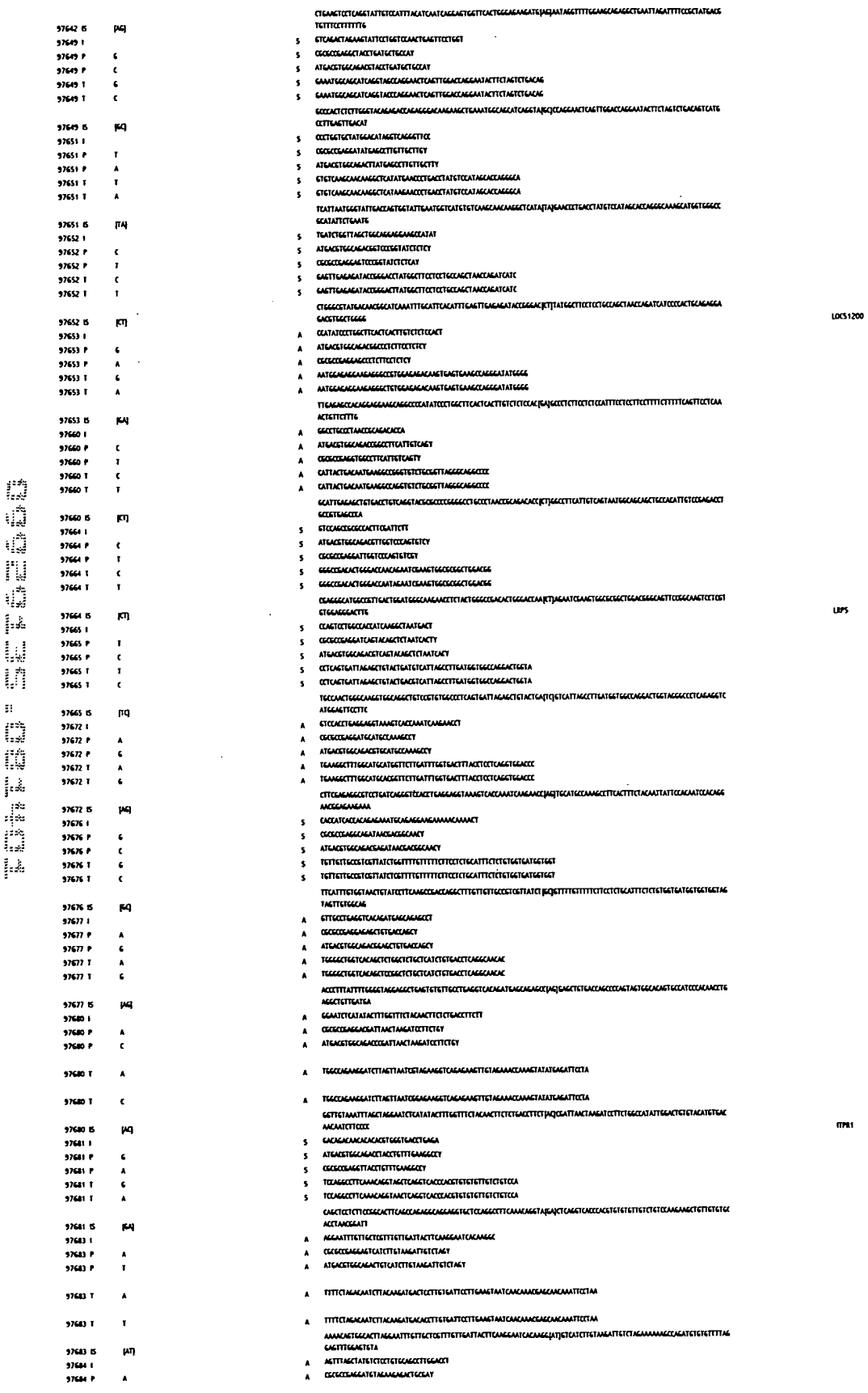
FIGURE 129C













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97684 T	A	A	AATATCGCAGTCTCTTCTACATGGTCCAAGGCTGCACAGGAGACATAGCTAAACTTT
97684 T	G	A	AATATCGCAGTCTCTTCTACACGGTCCAAGGCTGCACAGGAGACATAGCTAAACTTT
97684 IS	[AG]		TTGCTAGGAAATAAGCTACGAATCAAAGTTTAGCTATGTCTCCTGTGCAGCCTTGGACE[AG]TGTAGAAGAGACTGCGATATTGAGTCAATTAGCACCAGGTTTCCCTTACAGACCCACTTG
97685 I		A	GATTTCACTAGTCAAAAATTTCCAAGACTACATCTAGTATTTTTCTCAATTGACT
97685 P	C	A	ATGACGTGGCAGACCTTTATCTCATGATTGTACAGCY
97685 P	A	A	CGCGCCSAGGATTTATCTCATGATTGTACAGCAY
97685 T	C	A	AGTATGCTGTACAATCATGAGATAAAGGTCAATTGAGAAAAATACTAGATGTAGTCTTGGAAATTTTTGACTAGTGAAATCAC
97685 T	A	A	AGTATGCTGTACAATCATGAGATAAATGTCAATTGAGAAAAATACTAGATGTAGTCTTGGAAATTTTTGACTAGTGAAATCAC
97685 IS	[CA]		TGAAGTGATTTCACTAGTCAAAAATTTCCAAGACTACATCTAGTATTTTTCTCAATTGACE[CA]TTTATCTCATGATTGTACAGCATACTTGATAACTGATTCTCAGAACATTGATATTCATCA
97687 I		S	GGACGCTGATGCAAATGTGTATGAGGTAGAAGAGCCT
97687 P	C	S	ATGACGTGGCAGACGTATGAAGCTCCAGATGGY
97687 P	T	S	CGCGCCSAGGATATGAAGCTCCAGATGGY
97687 T	C	S	CTGGCCATCTGGAGCTTCATACGGCTCTCTCTACCTCATACACATTTGCATCAGCGTCCTC
97687 T	T	S	CTGGCCATCTGGAGCTTCATATGGCTCTTCTACCTCATACACATTTGCATCAGCGTCCTC
97687 IS	[CT]		CTGTTACCTGGAATGCTGATGTCTGGGTCCAAGCTGCAGCTGGCCATCTGGAGCTTCATAE[CT]GGCTCTTCTACCTCATACACATTTGCATCAGCGTCCTCCATGCTGCTGGAATTCTGCCAT
97689 I		S	GGGCCGTGGGGCCACTGACCC
97689 P	C	S	ATGACGTGGCAGACGCCACTTTGCAGGTATAGY
97689 P	A	S	CGCGCCSAGGTCCACTTTGCAGGTATAGY
97689 T	C	S	TCCCCCTATACCTGCAAAGTGGCGGTCAGTGGCCCCACGGCCCCC
97689 T	A	S	TCCCCCTATACCTGCAAAGTGGAGGTCAGTGGCCCCACGGCCCCC
97689 IS	[CA]		TCTCTGGAACAGGGGTATCAGCATAGATCTTGGAGCTGTCCCCCTATACCTGCAAAGTGGE[CA]GGTCAGTGGCCCCACGGCCCCCAAAACGGCCAACCAGTTTGCCATTGGGCTGGAAGTAA
97690 I		A	CTAAGGGAGTGTGCATGCGTGTGGGCA
97690 P	C	A	ATGACGTGGCAGACCTGGCAGGTGCACY
97690 P	T	A	CGCGCCSAGGTTGGCAGGTGCACCY
97690 T	C	A	GGATGGTGCACCTGCCAGGCCCACACGCATGCACACTCCCTTAGCC
97690 T	T	A	GGATGGTGCACCTGCCAGGCCCACACGCATGCACACTCCCTTAGCC
97690 IS	[CT]		TCCCATGTGCCCTCCTTTCCTGTAAAAGCTTGGGCTAAGGGAGTGTGCATGCGTGTGGGGE[CT]TGGCAGGTGCACCATCCAGTGGCTGTTCTTCAGTCCTAGTCTTAGTTCTACACCGCTCTG
97694 I		S	CATGCATGAAAAGATAAGTACACTCTTTGCCAAAAGCAAGCAAT
97694 P	T	S	CGCGCCSAGGACCTAAGACCTTAGAAACCAY
97694 P	G	S	ATGACGTGGCAGACCCCTAAGACCTTAGAAACCY
97694 T	T	S	CCATTGGTTTCTAAGGTCTTAGGTTTGCTTGCTTTTGGCAAAGAGTGTACTTATCTTTTCATGCATGCC
97694 T	G	S	CCATTGGTTTCTAAGGTCTTAGGGTTGCTTGCTTTTGGCAAAGAGTGTACTTATCTTTTCATGCATGCC
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97695 I		A	TCTGGATGTTTTCCACACACCTGAGAGTGTT
97695 P	G	A	ATGACGTGGCAGACACAAAGAATGACAGGTACCTCY
97695 P	C	A	CGCGCCSAGGCAAAGAATGACAGGTACCTCY
97695 T	G	A	TAATGAGGTACCTGTCATTCTTTCACACTCTCAGGTGTGTGGAAAACATCCAGAGA
97695 T	C	A	TAATGAGGTACCTGTCATTCTTTCACACTCTCAGGTGTGTGGAAAACATCCAGAGA
97695 IS	[GC]		CATTTGTTATTATGAAAGCATTAGACTATCTCTGGATGTTTTCCACACACCTGAGAGTGT[GC]AAAGAATGACAGGTACCTCATTAAAGATGCATAATATCTAGTCTCCTGTTCTCACACAGA
97713 I		S	CCCTTGTCTCTCAGTATATGATTTTGACAACAGAACCAGTATTTTCAACTCTT
97713 P	C	S	ATGACGTGGCAGACATATGCAAACTAGCTTCCCY
97713 P	T	S	CGCGCCSAGGAATATGCAAACTAGCTTCCCY
97713 T	C	S	CAATGGGAAGCTAGTTTGCATATCAGAGTTGAAAATACTGGTTCTGTTGTCAAAATCATACTGAGAACAAGGGGA
97713 T	T	S	CAATGGGAAGCTAGTTTGCATATTAGAGTTGAAAATACTGGTTCTGTTGTCAAAATCATACTGAGAACAAGGGGA
97713 IS	[CT]		TATGTTTAAGTAATAAGTATGCAGATGGTTTAATGTTCAATGGGAAGCTAGTTTGCATAT[CT]AGAGTTGAAAATACTGGTTCTGTTGTCAAAATCATACTGAGAACAAGGGGATAATACACA
97714 I		S	GGCAGGGCTGAGAGTAACTGTCATTTATCTGGCAAAT
97714 P	T	S	CGCGCCSAGGAACAATAAACAAAACAGGCAT
97714 P	G	S	ATGACGTGGCAGACACACAATAAACAAAACAGGCAT
97714 T	T	S	ACATTGCCTGTTTTTGTTTATTGTTTTTCCCAGATAAATGACAGTTACTCTCAGCCCTGCCAA
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97715 I		S	CCGCCACATGTAATTCAAAGAGAAGCTCTGTAAGCATGA
97715 P	G	S	ATGACGTGGCAGACCGAGCAAATTCTTCTCCCY
97715 P	A	S	CGCGCCSAGGTGAGCAAATTCTTCTCCCY
97715 T	G	S	AAAAGGCAGAAGAATTTGCTGCATGCTTACAGAGCTTCTCTTTGAAATTACATGTGGCGGCC
97715 T	A	S	AAAAGGCAGAAGAATTTGCTGCATGCTTACAGAGCTTCTCTTTGAAATTACATGTGGCGGCC
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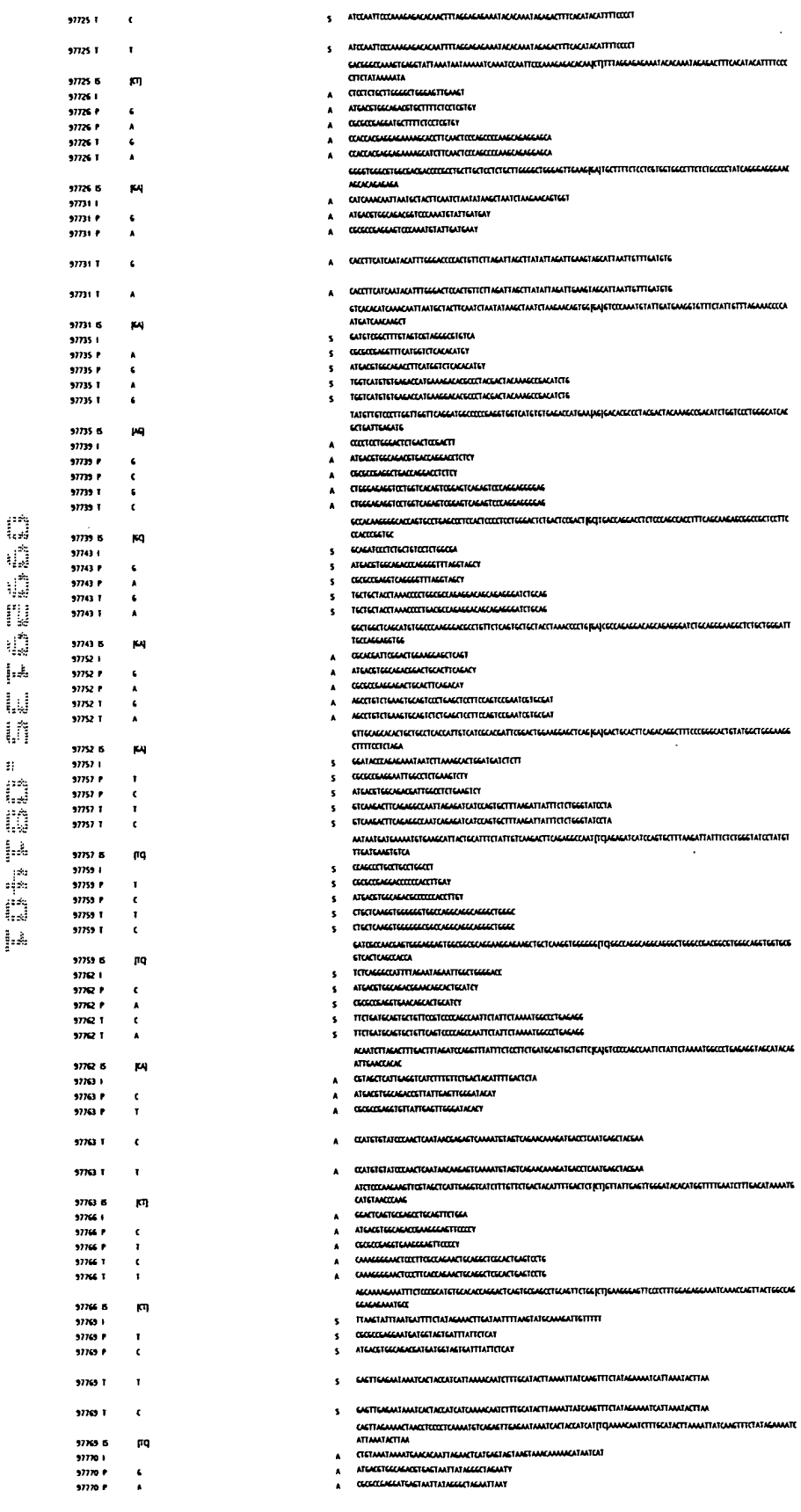


FIGURE 129C

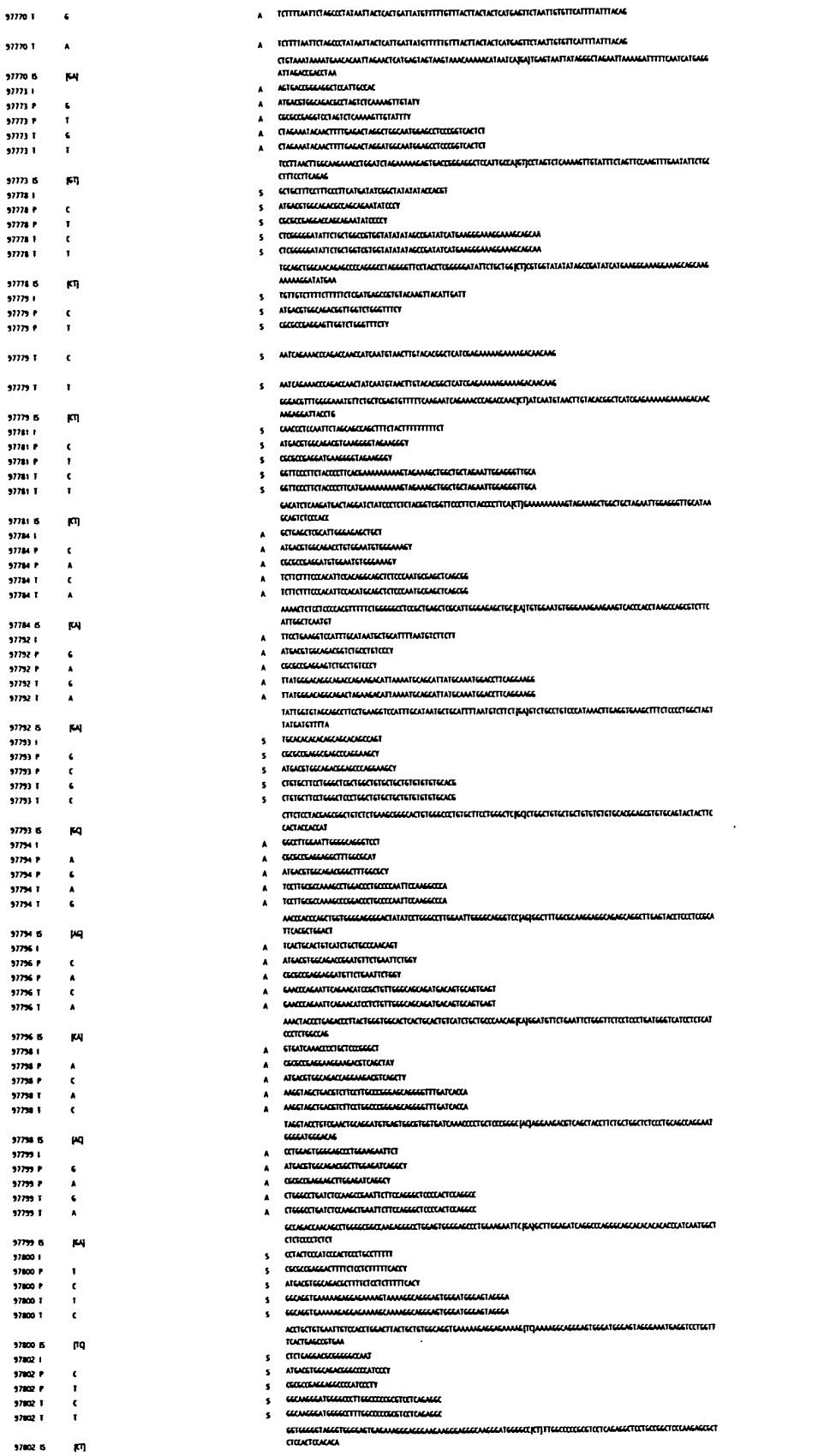
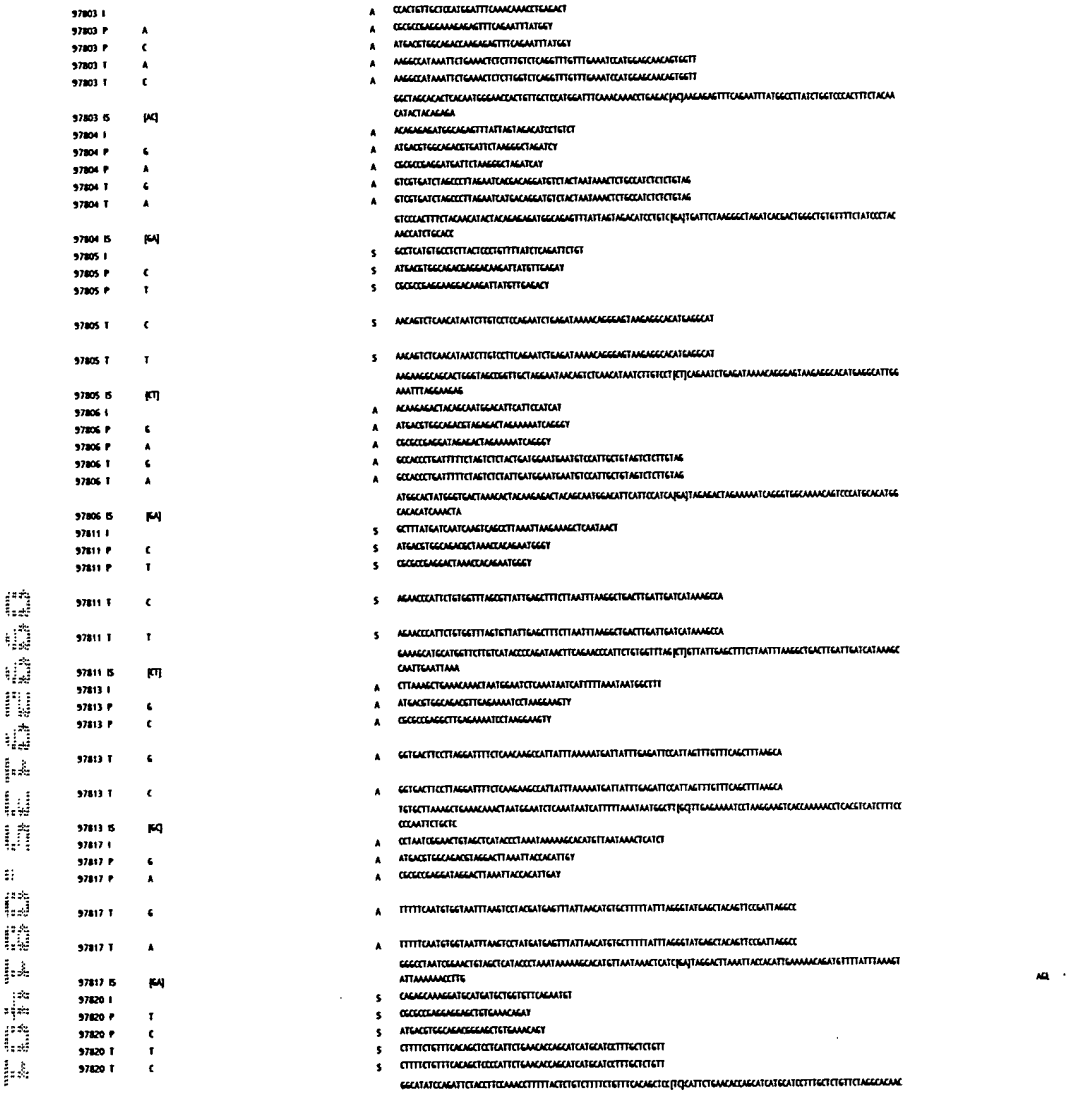


FIGURE 129C



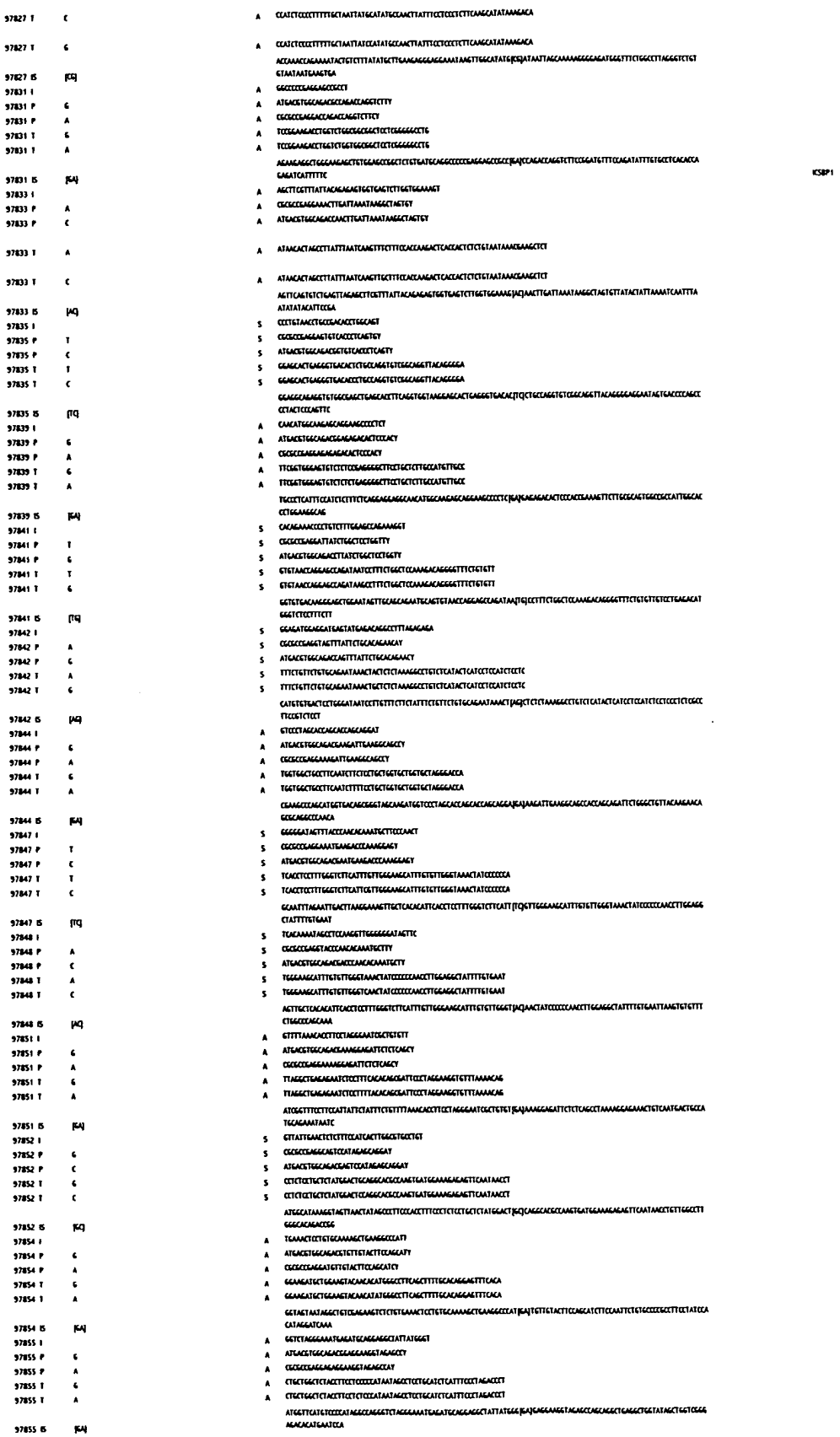
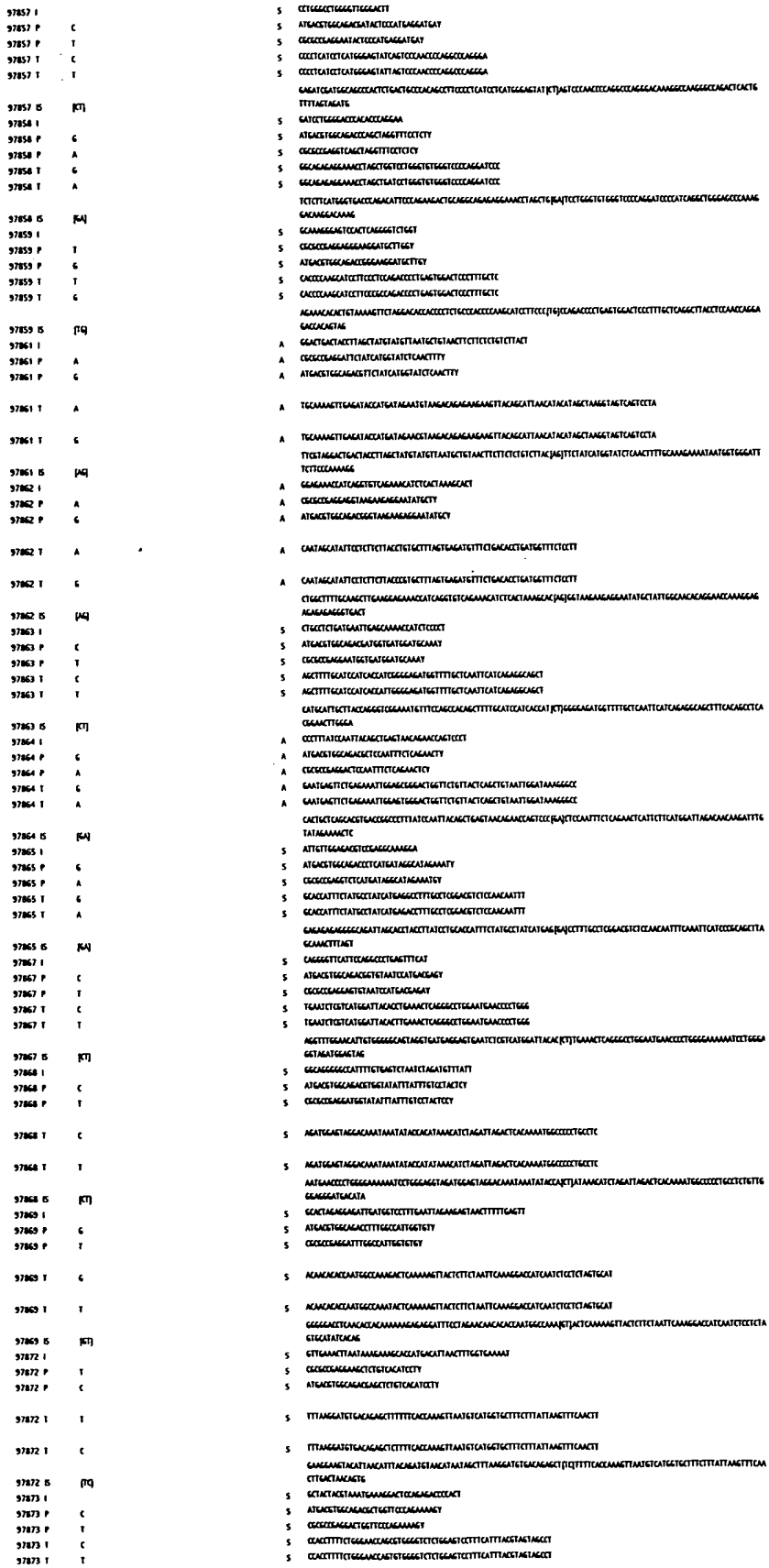
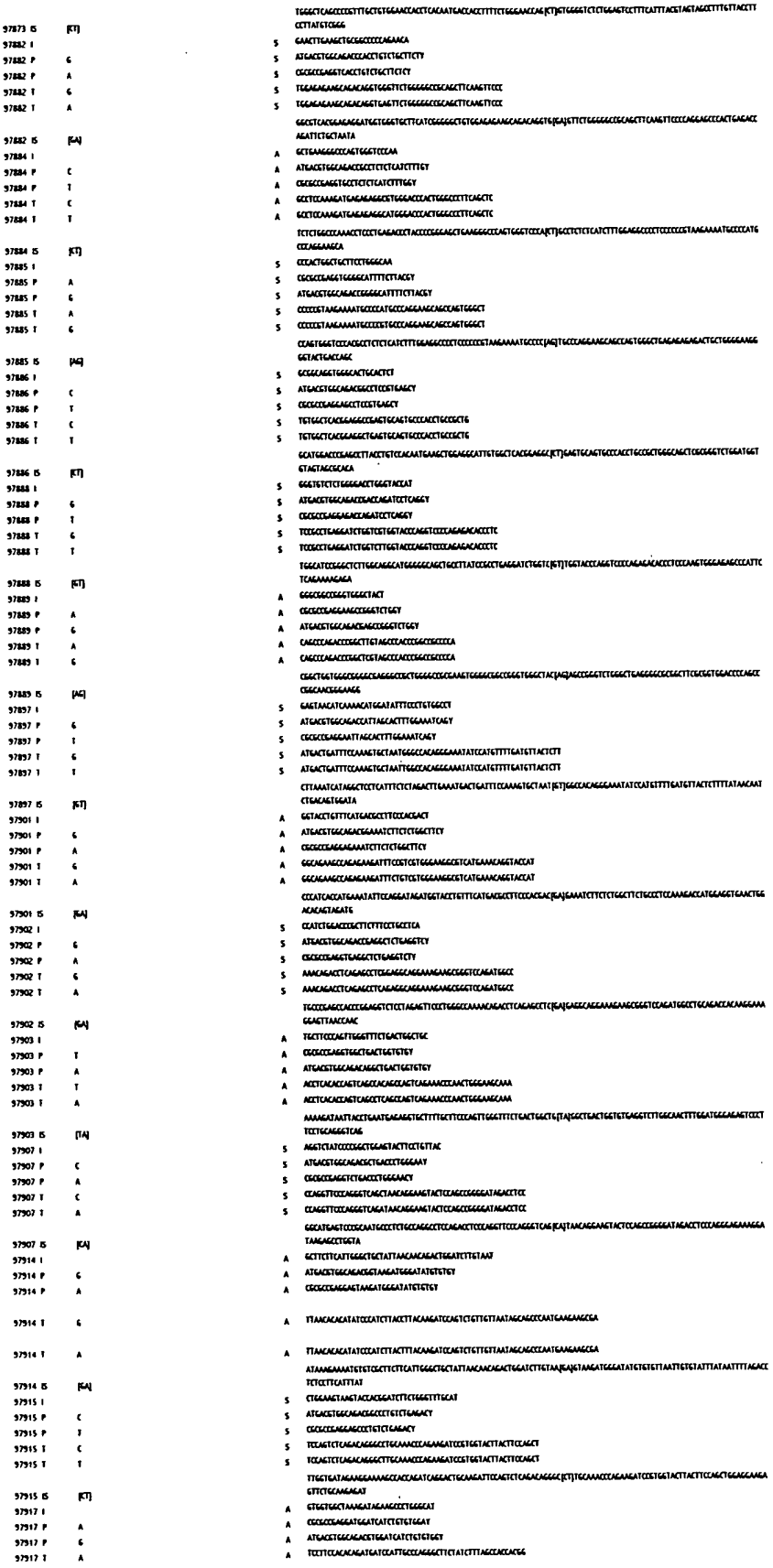


FIGURE 129C





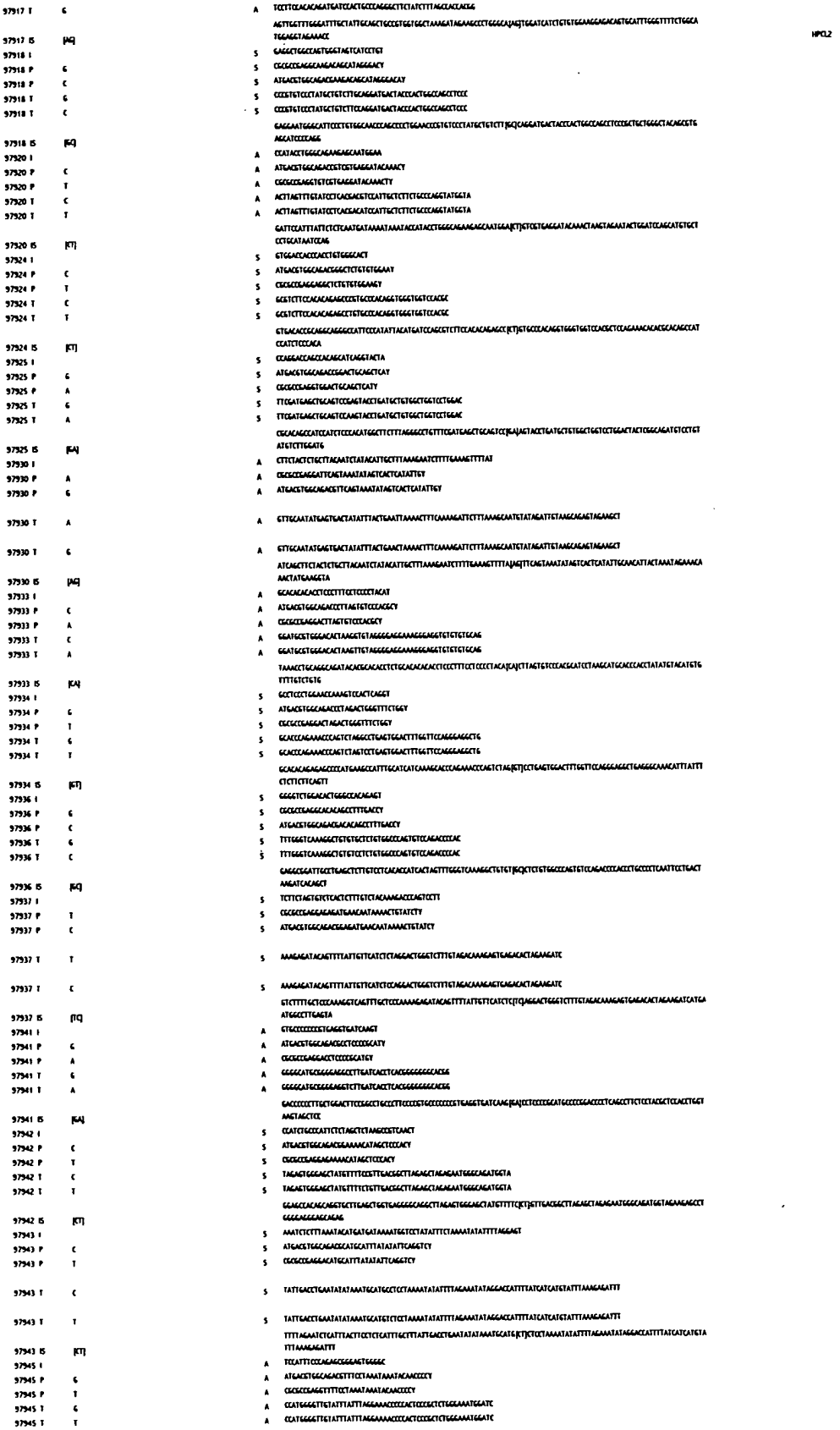
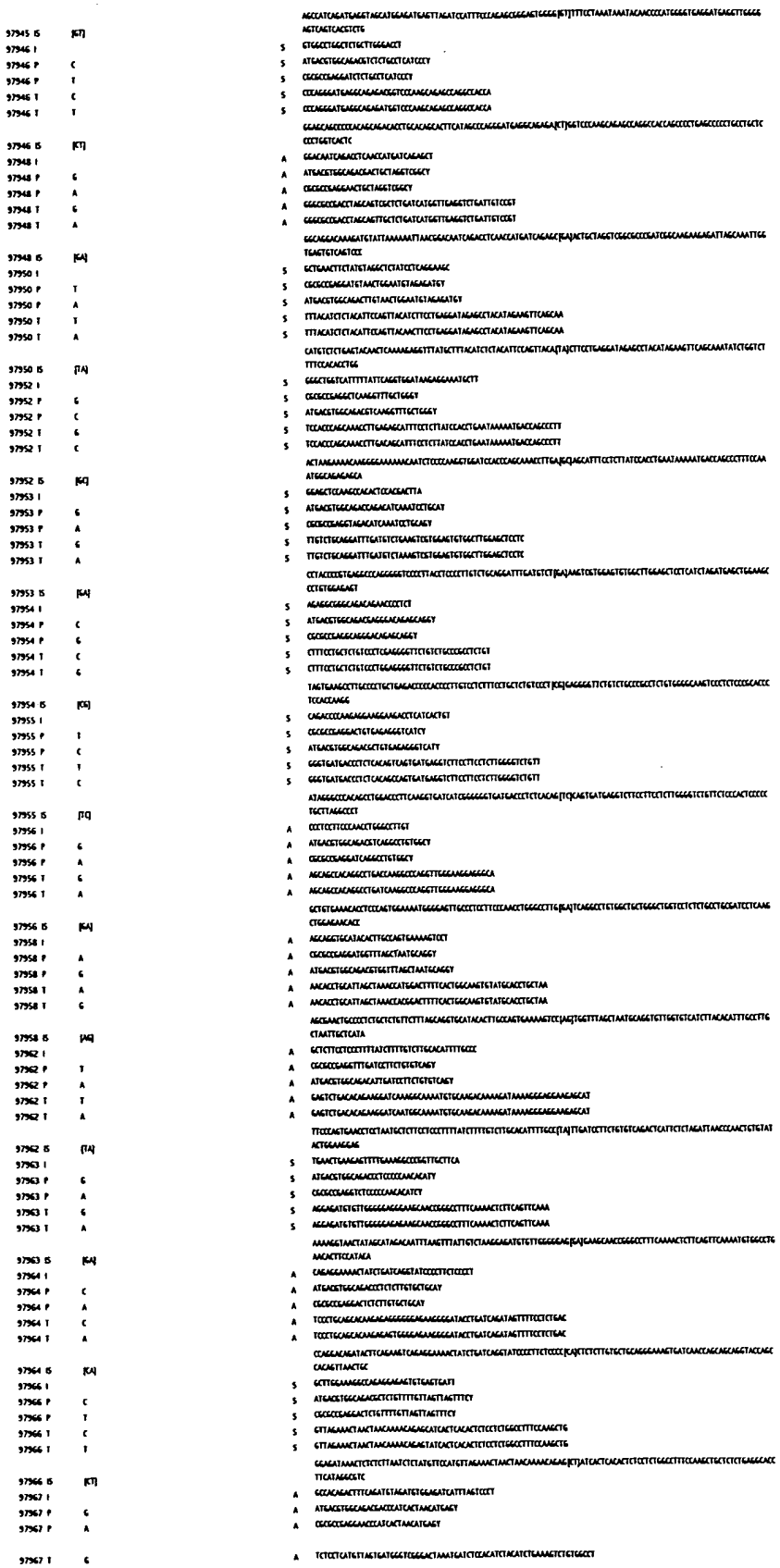


FIGURE 129C



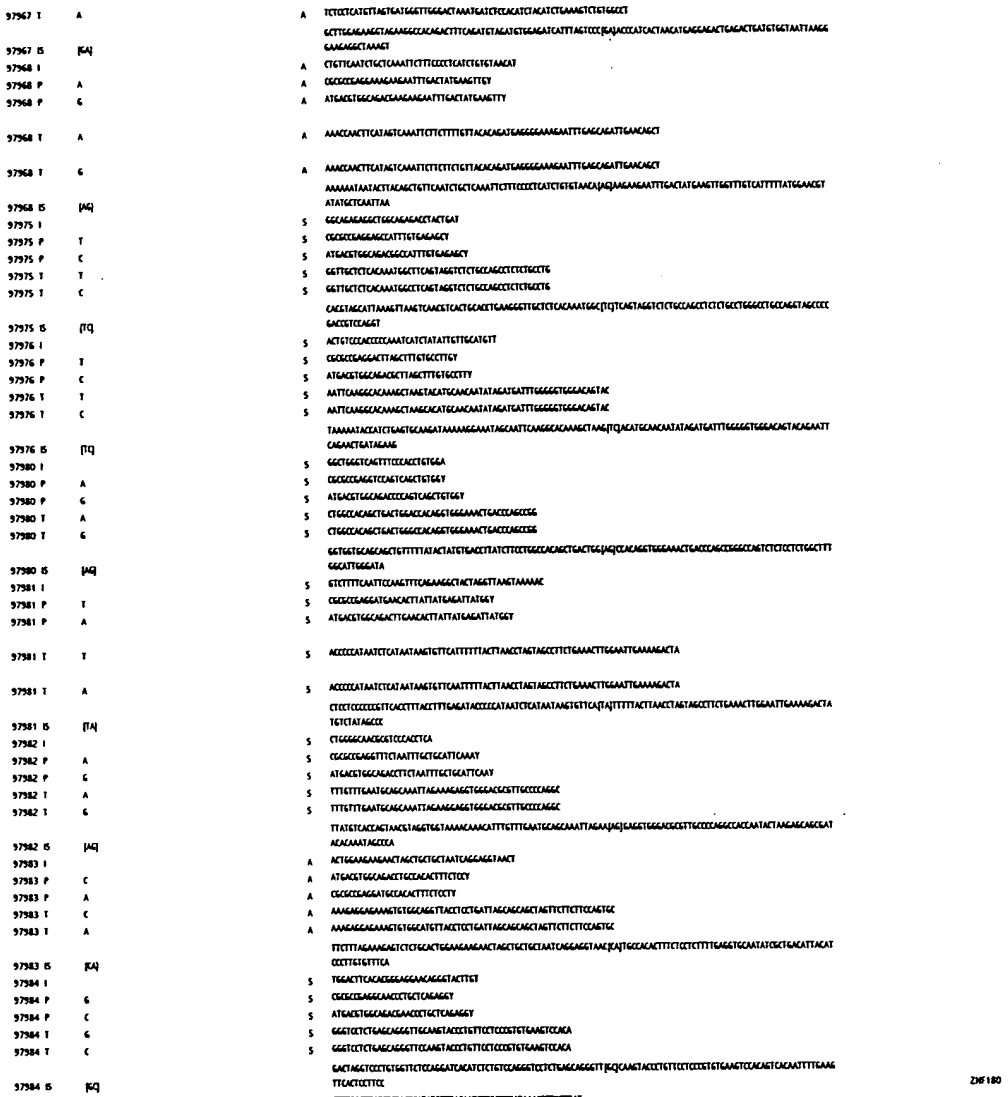
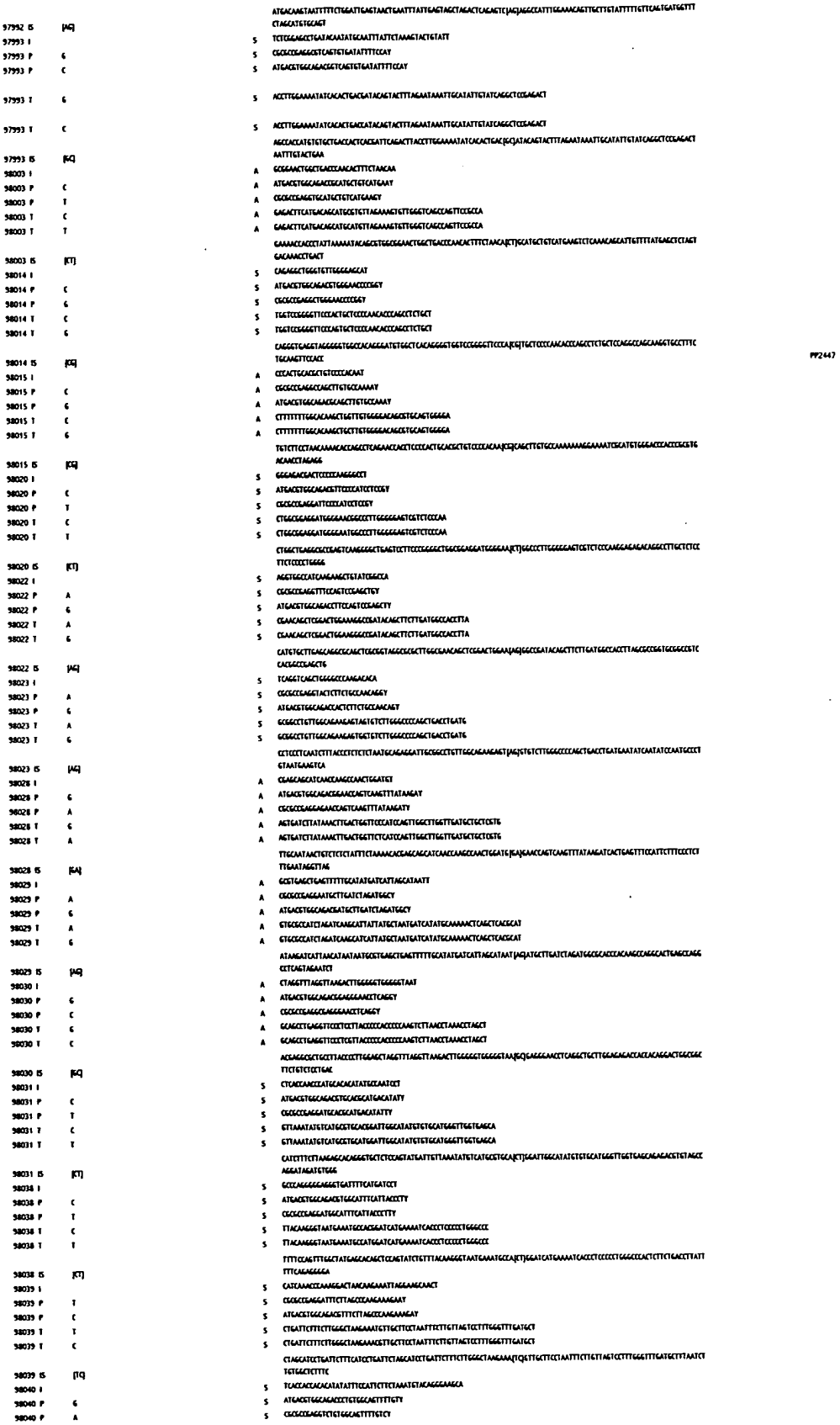


FIGURE 129C



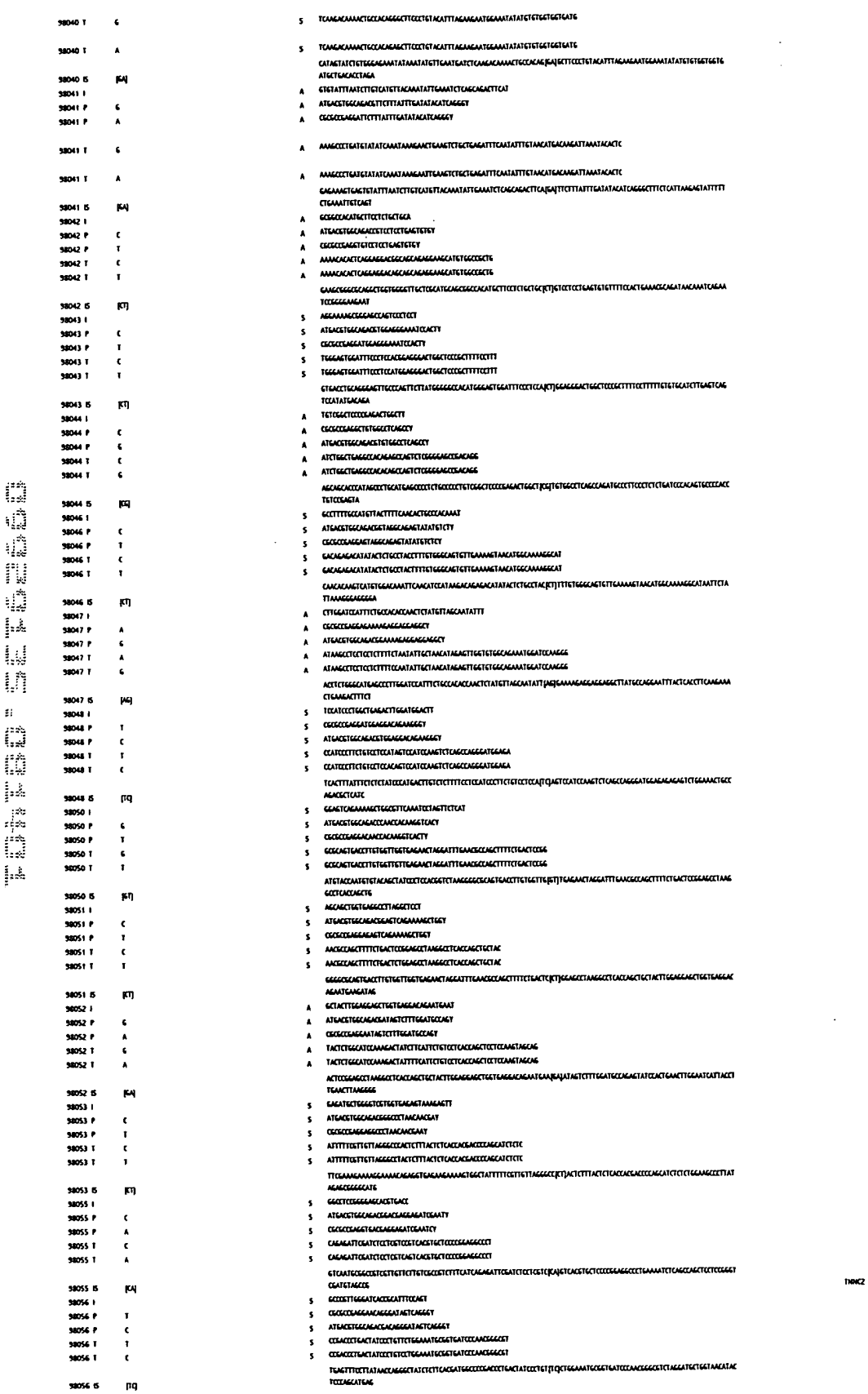
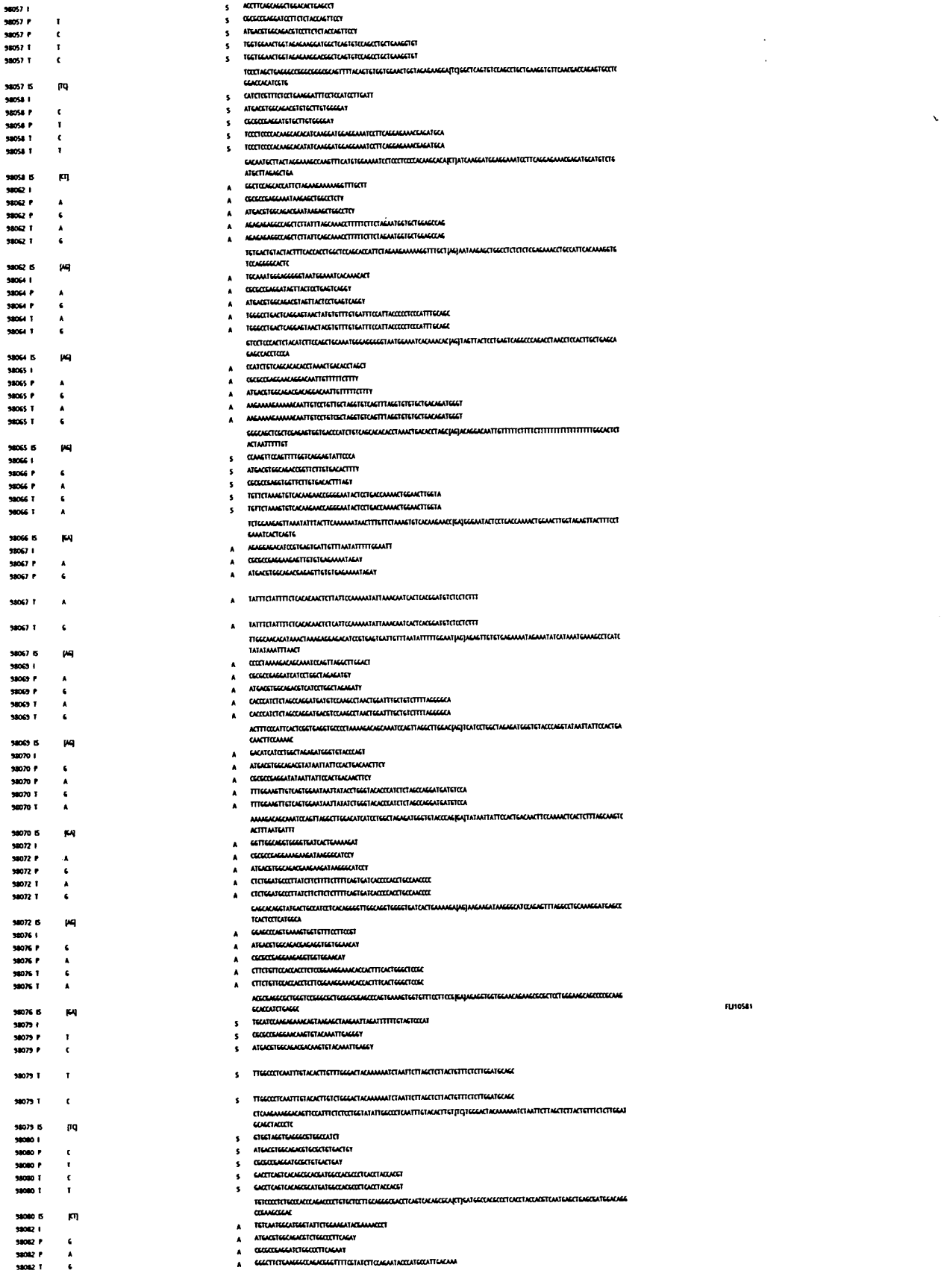


FIGURE 129C



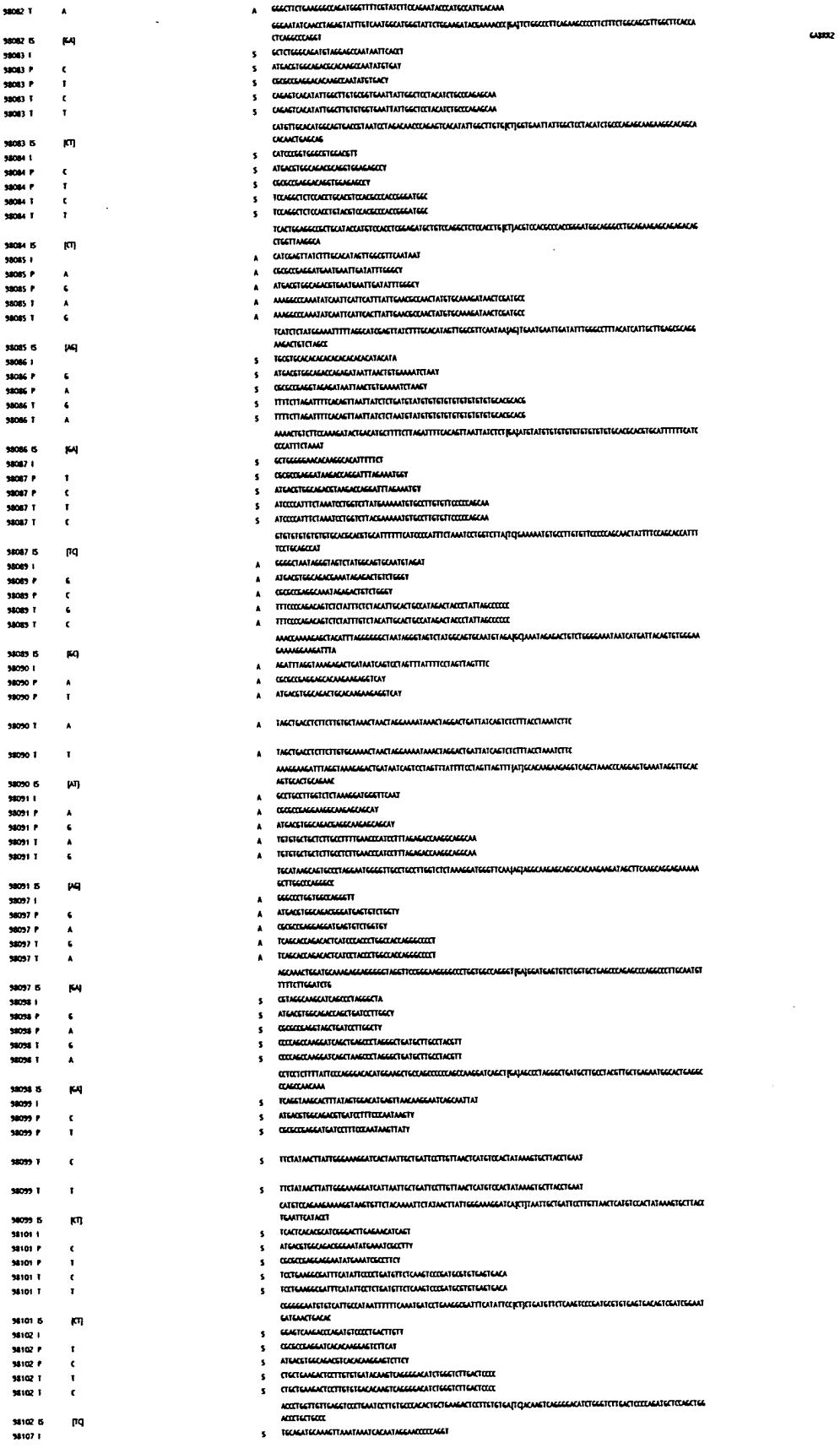
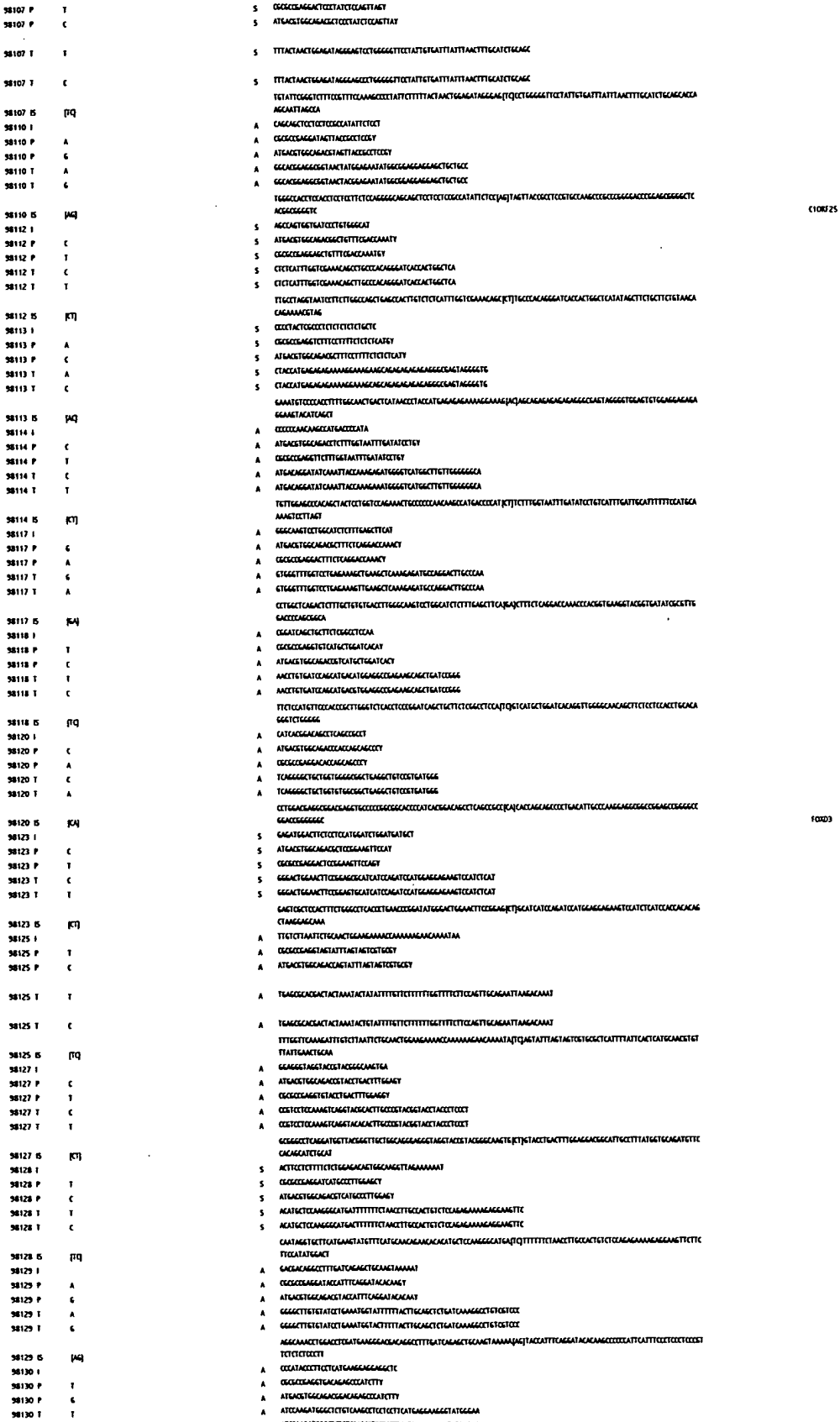
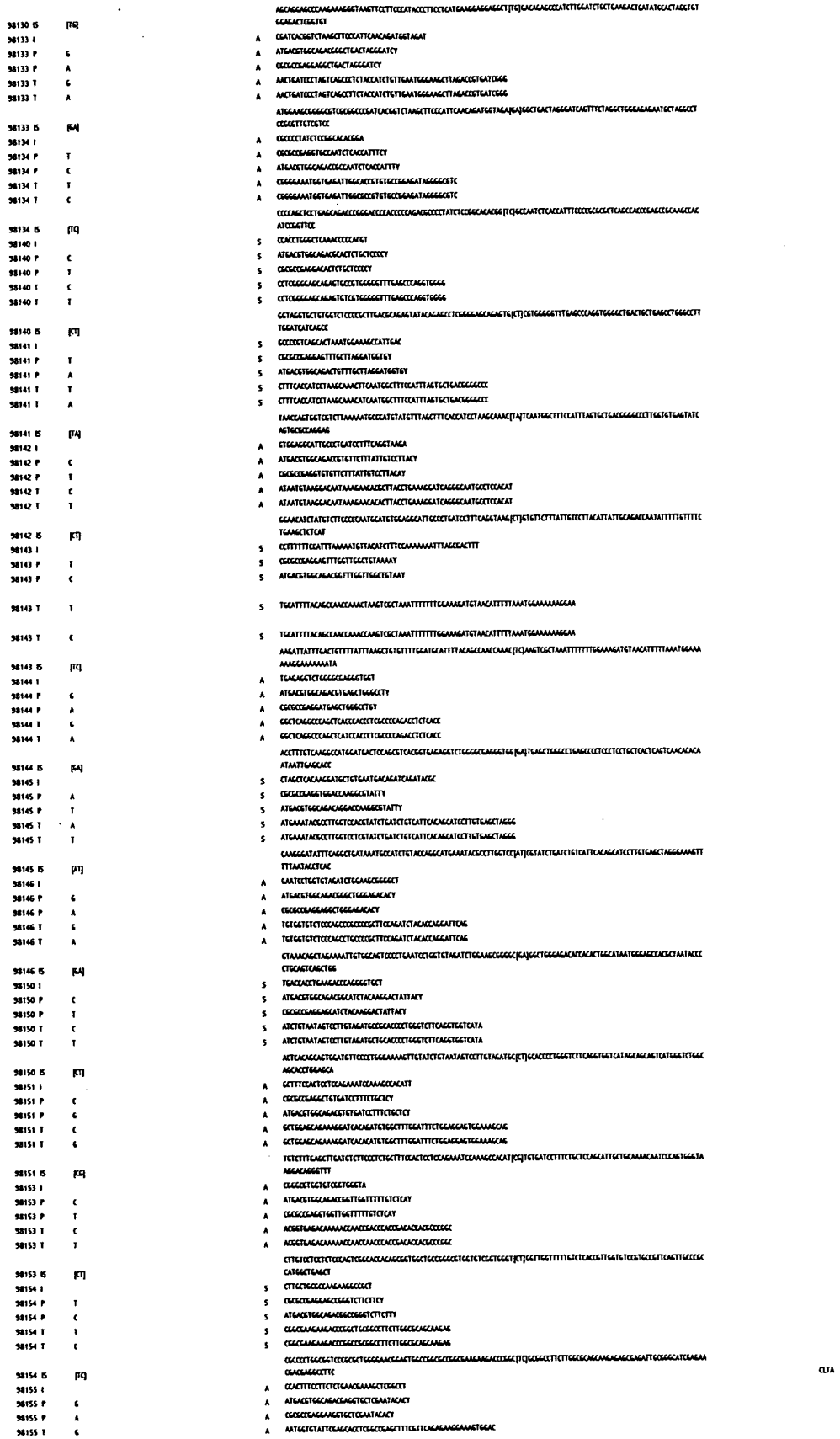


FIGURE 129C





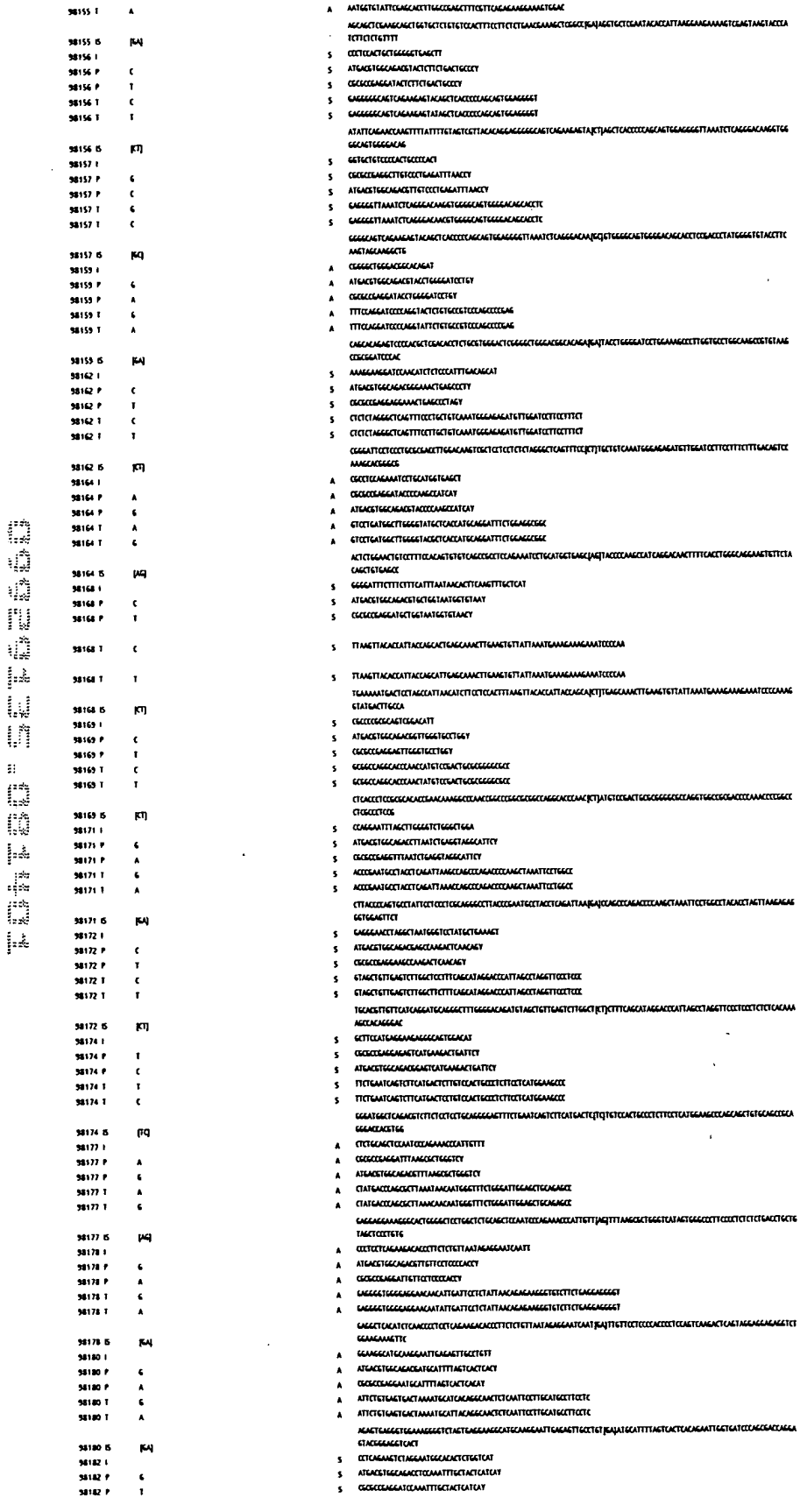


FIGURE 129C

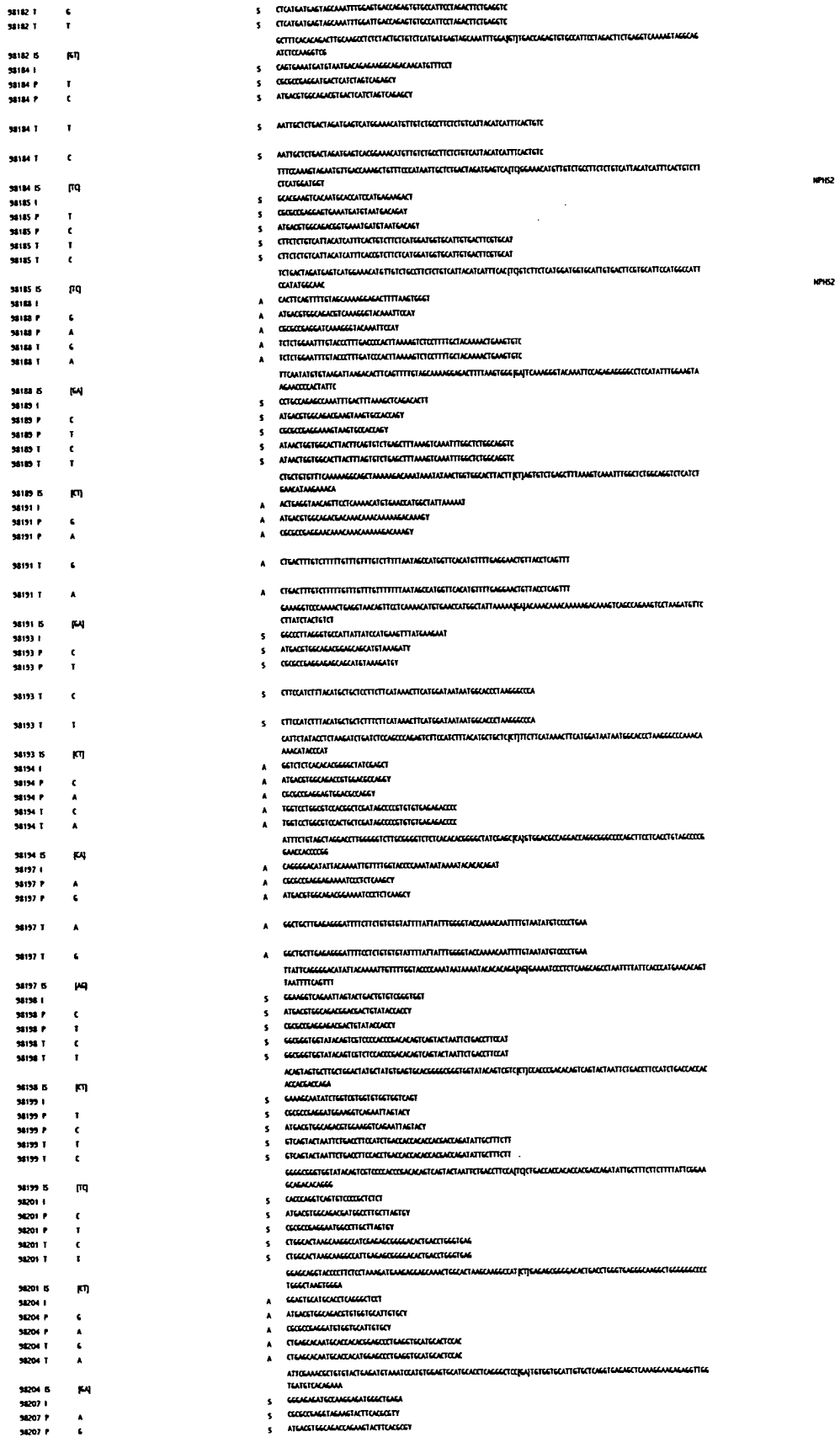
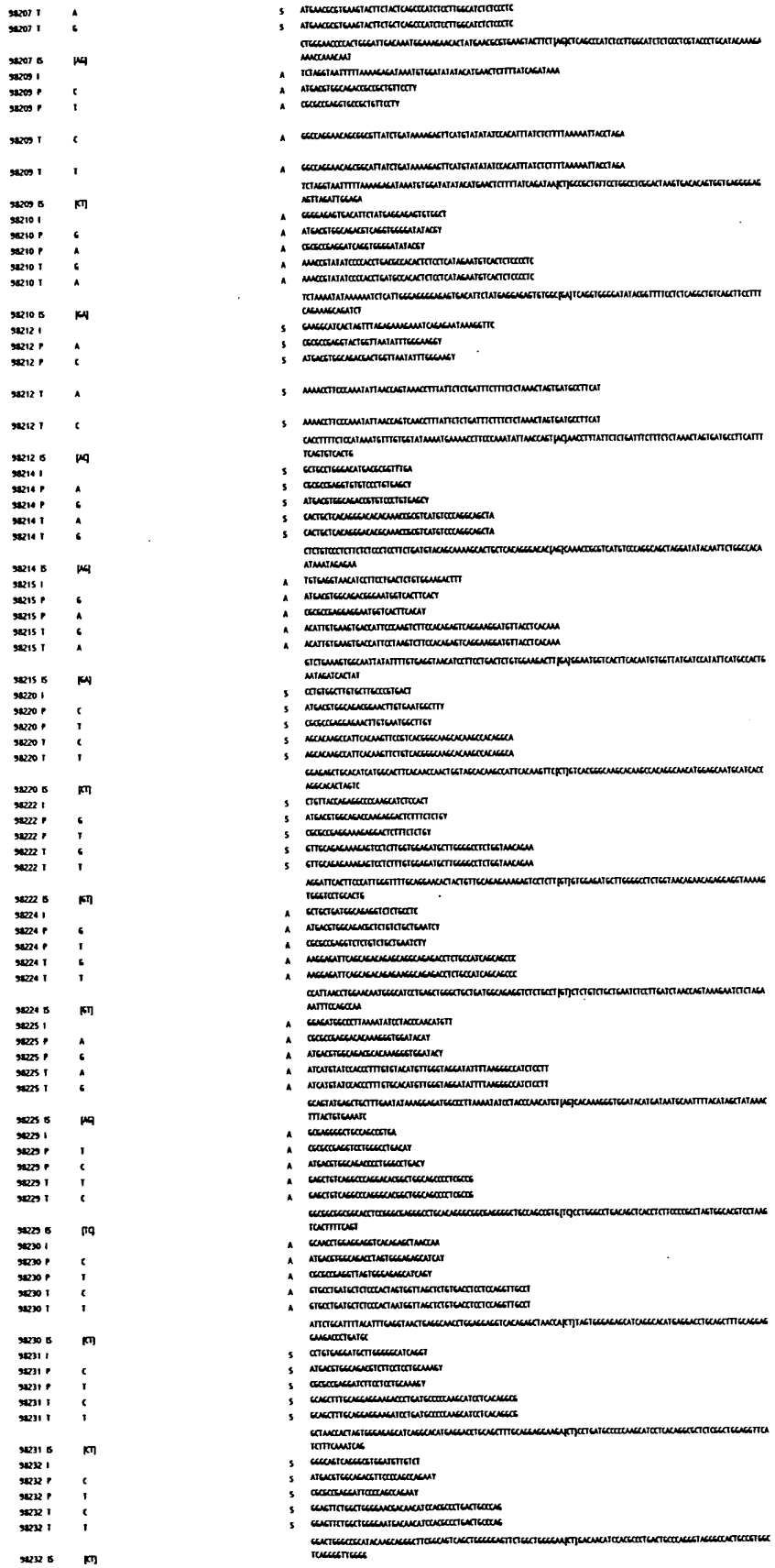
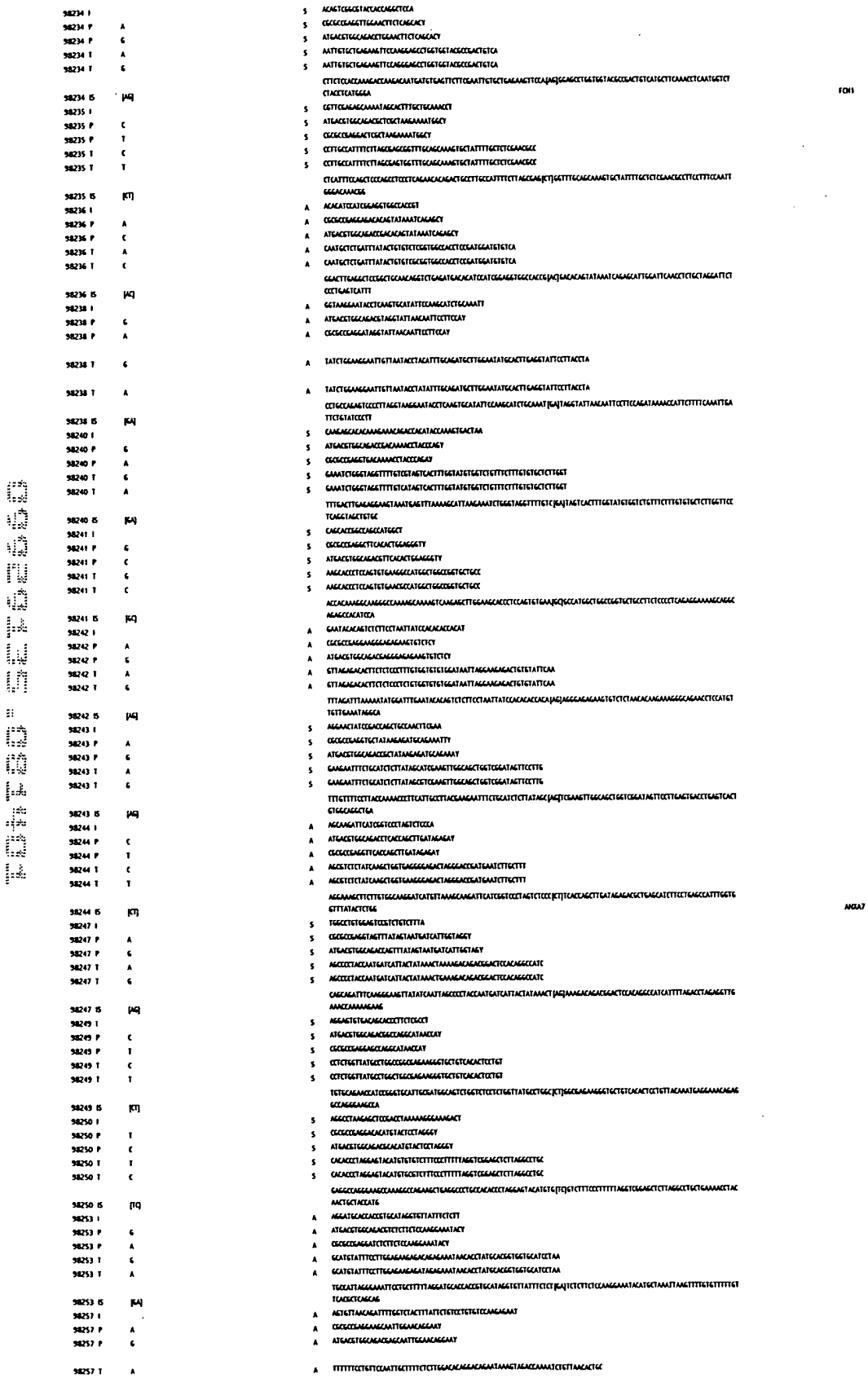
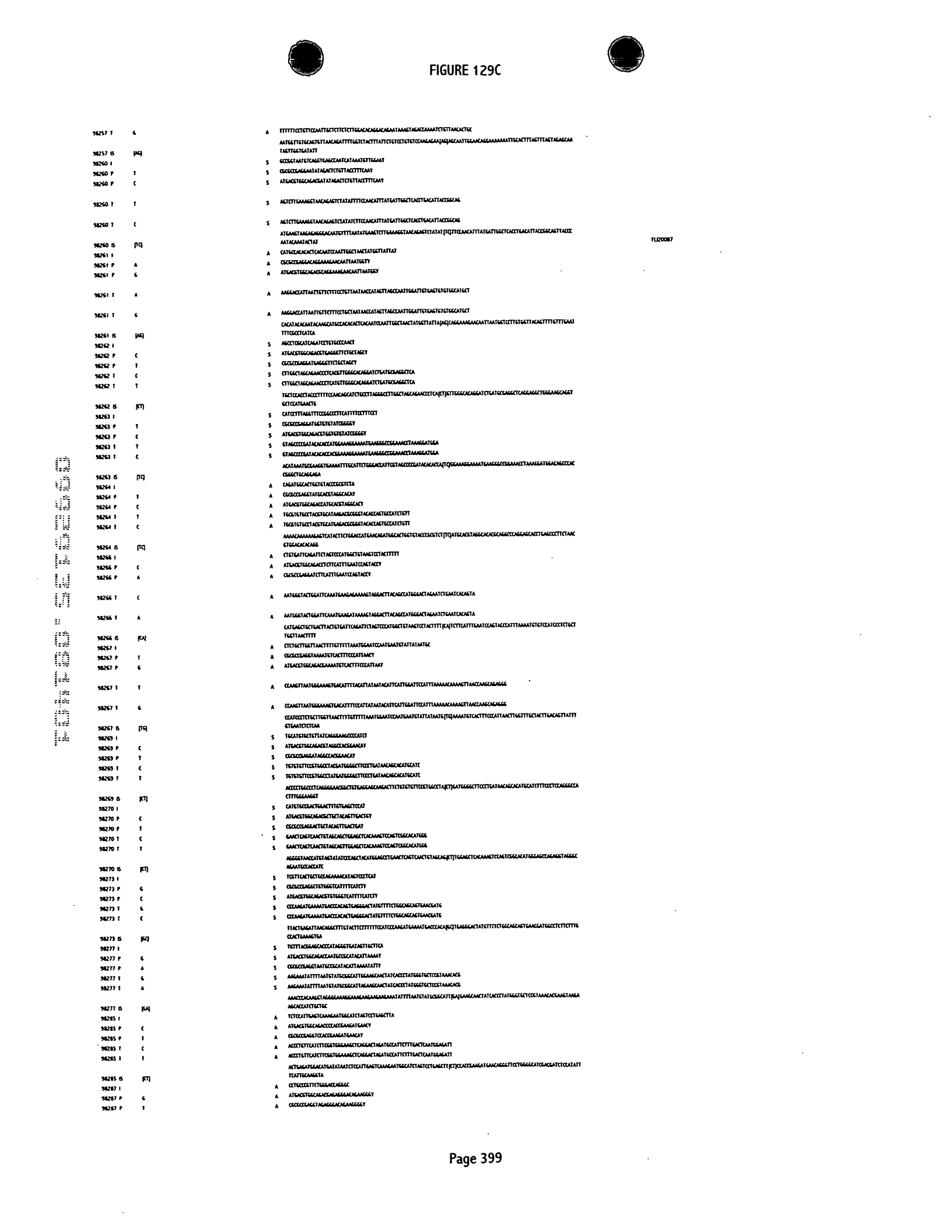
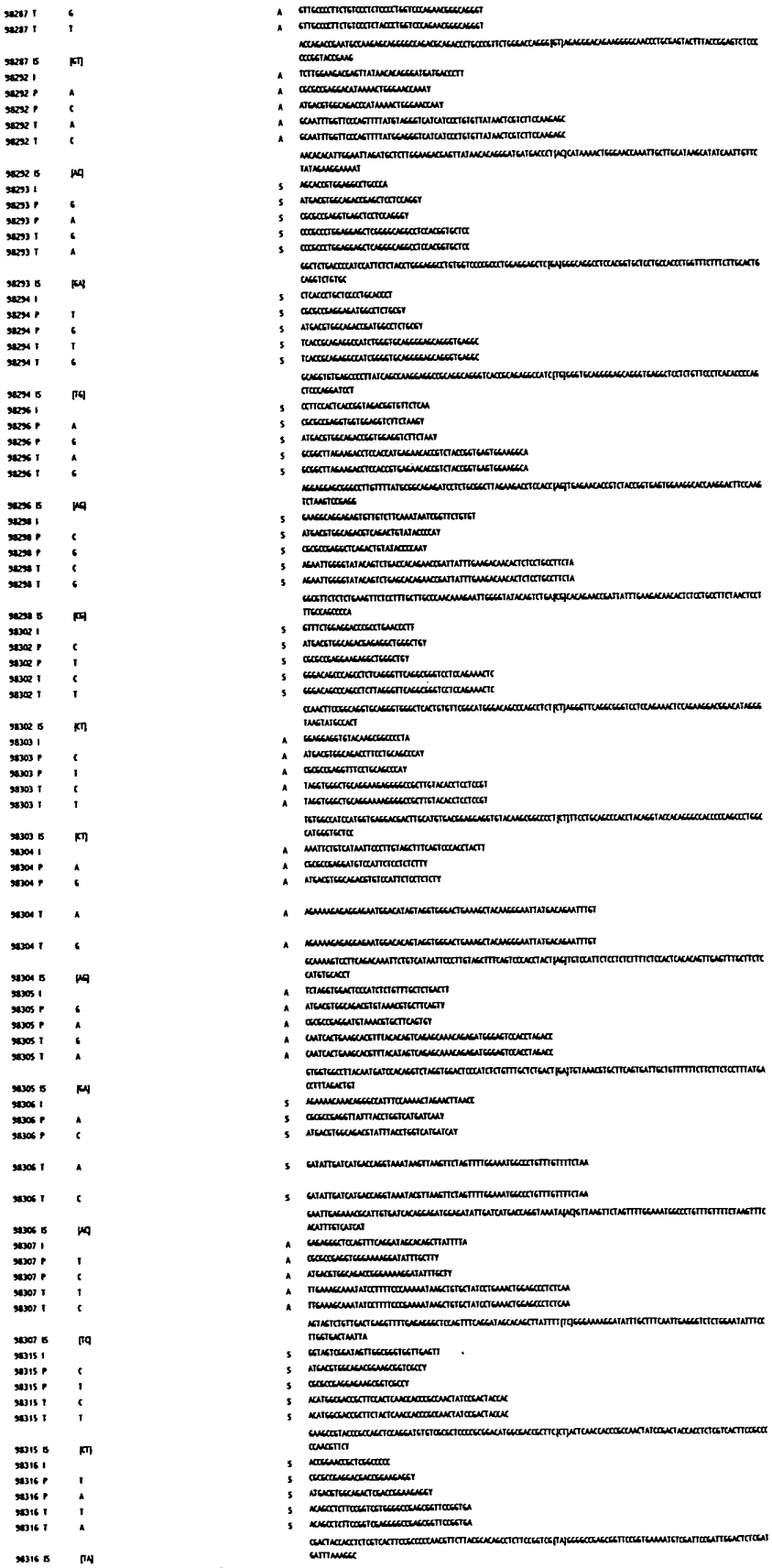


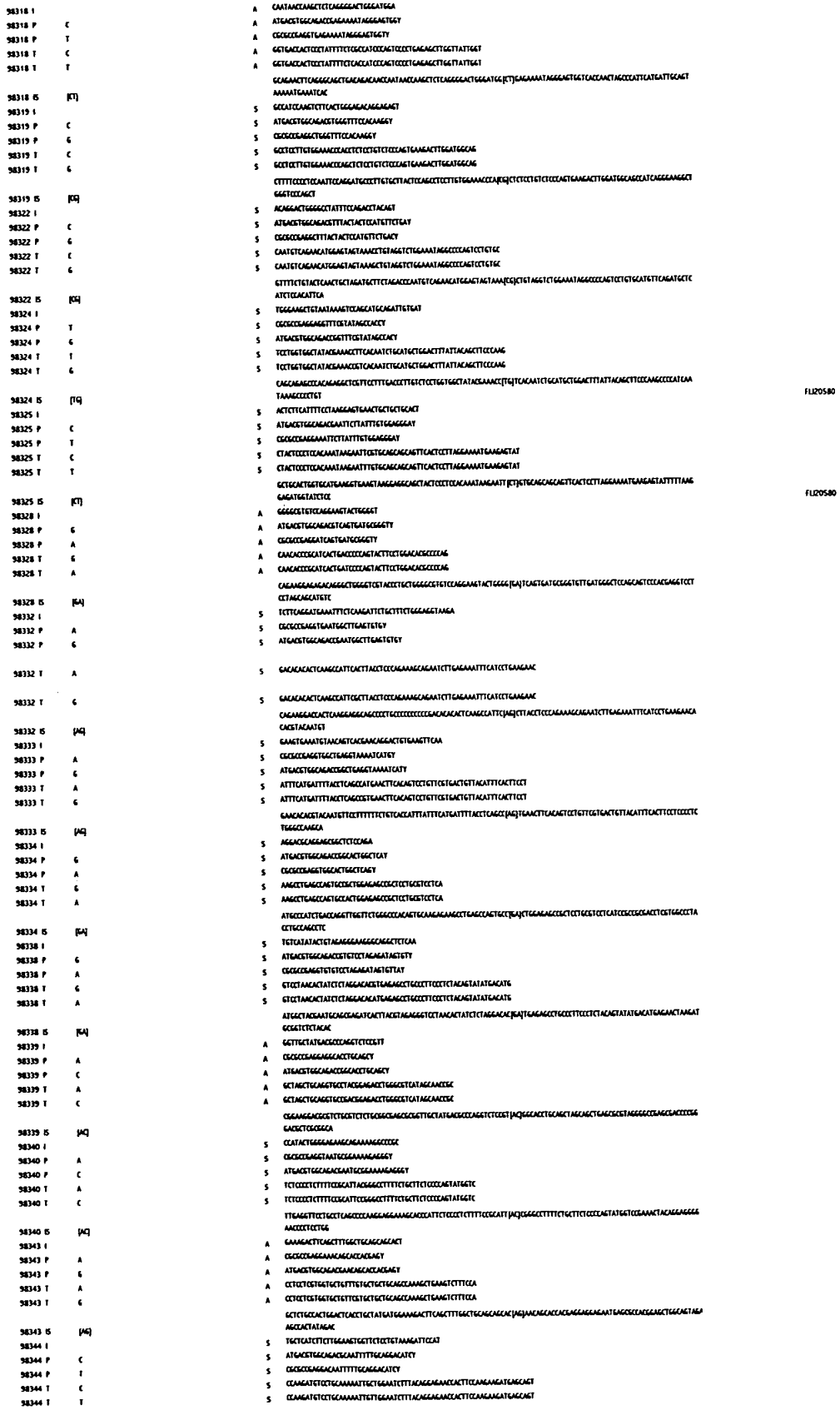
FIGURE 129C

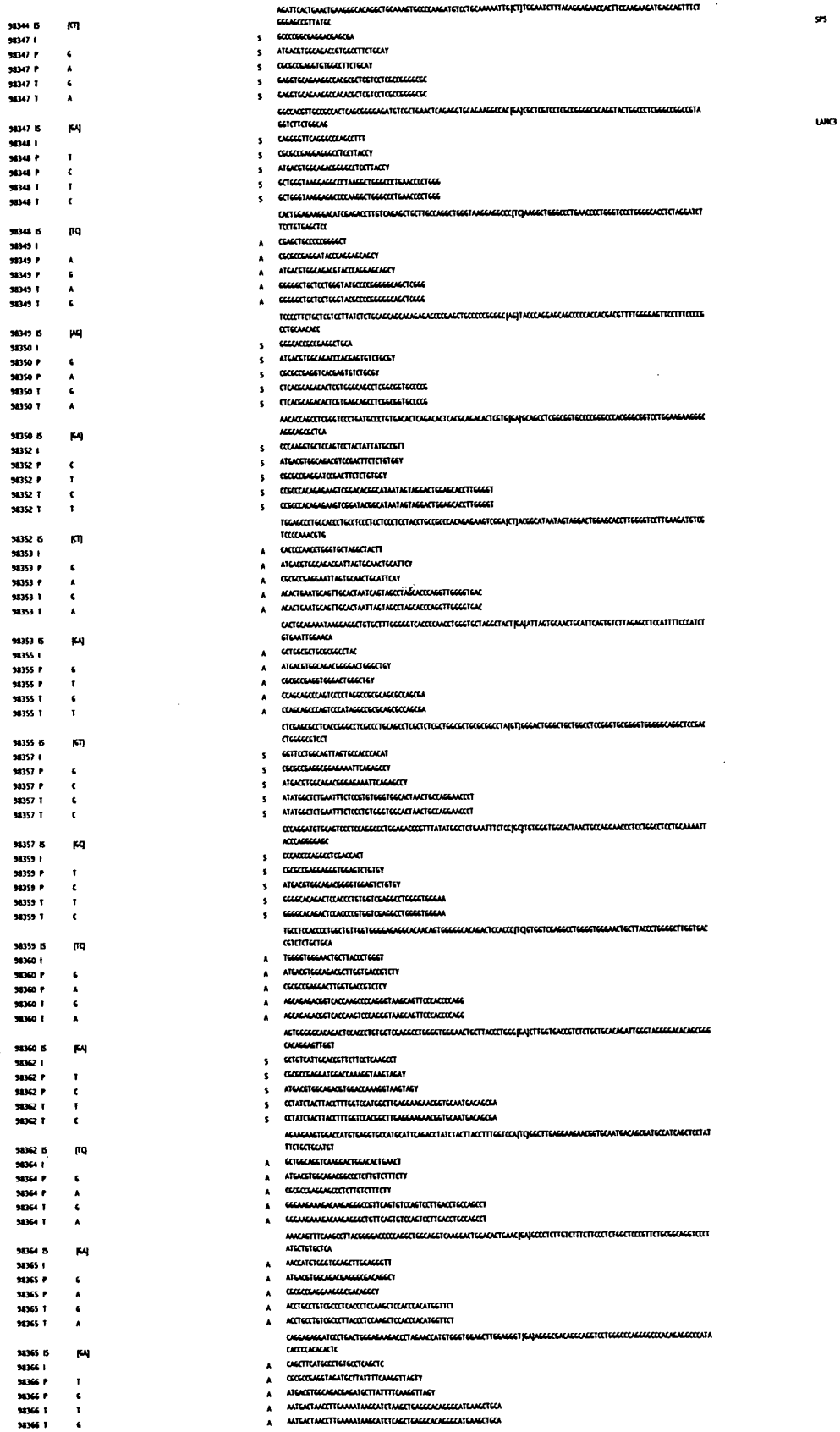


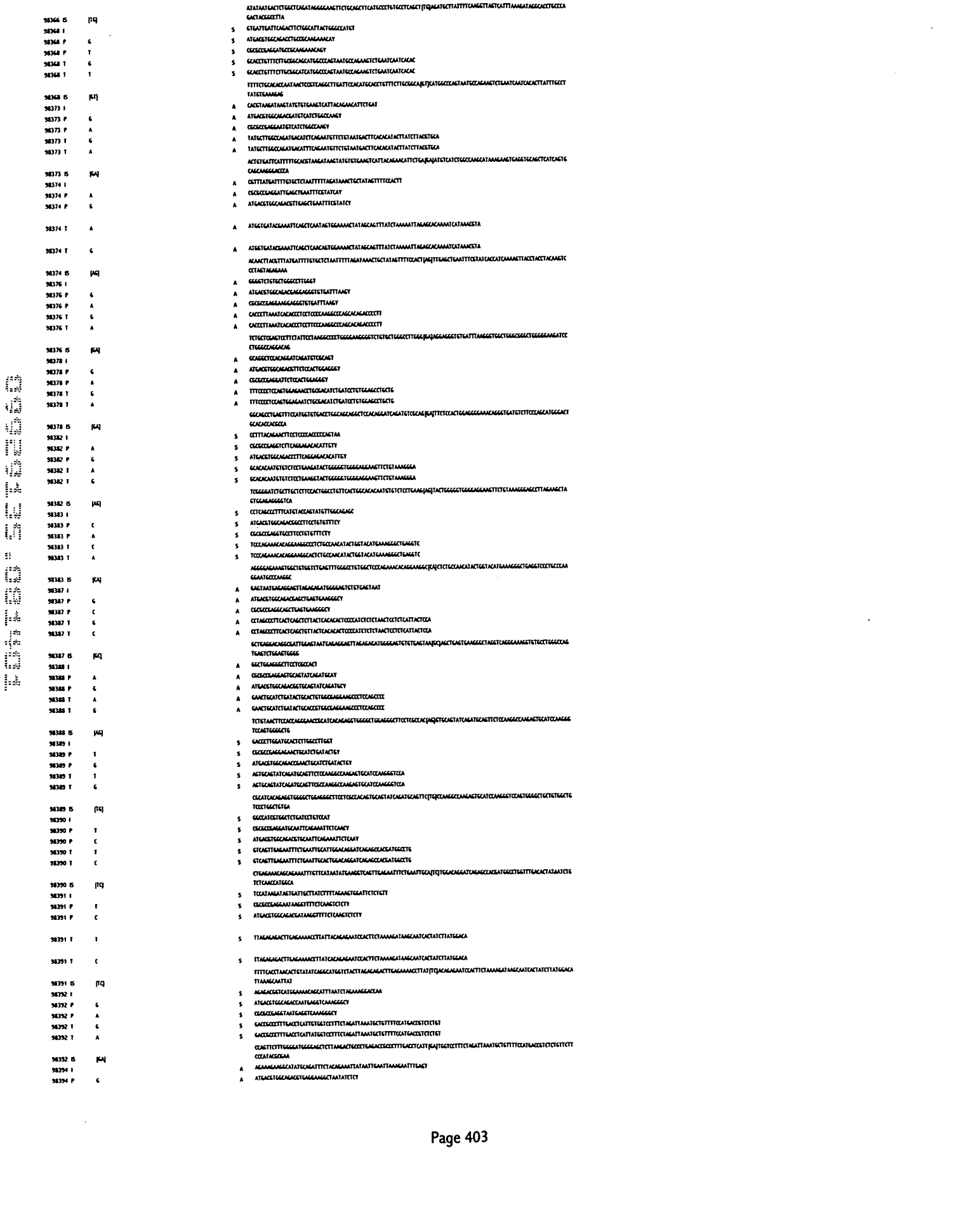




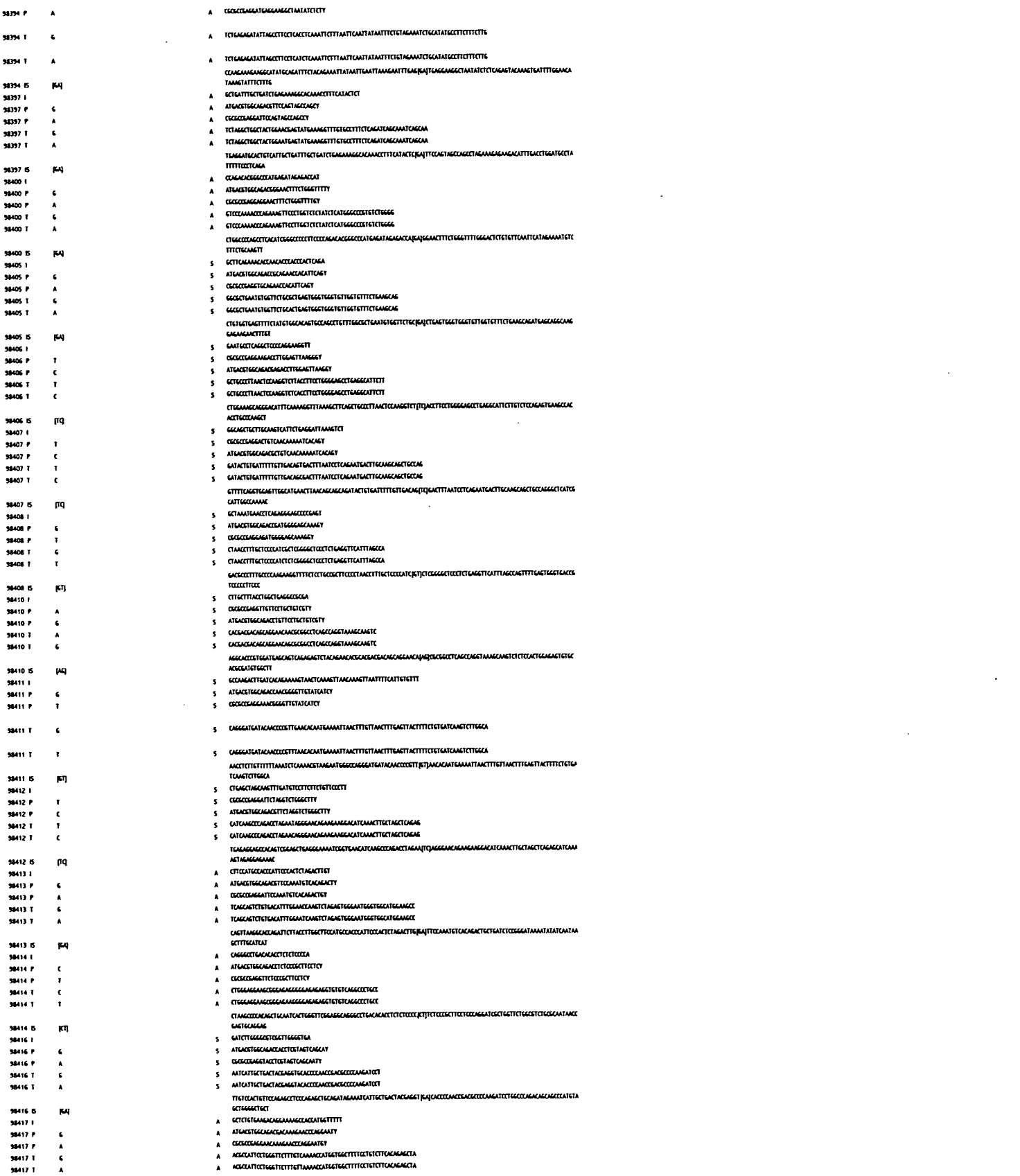


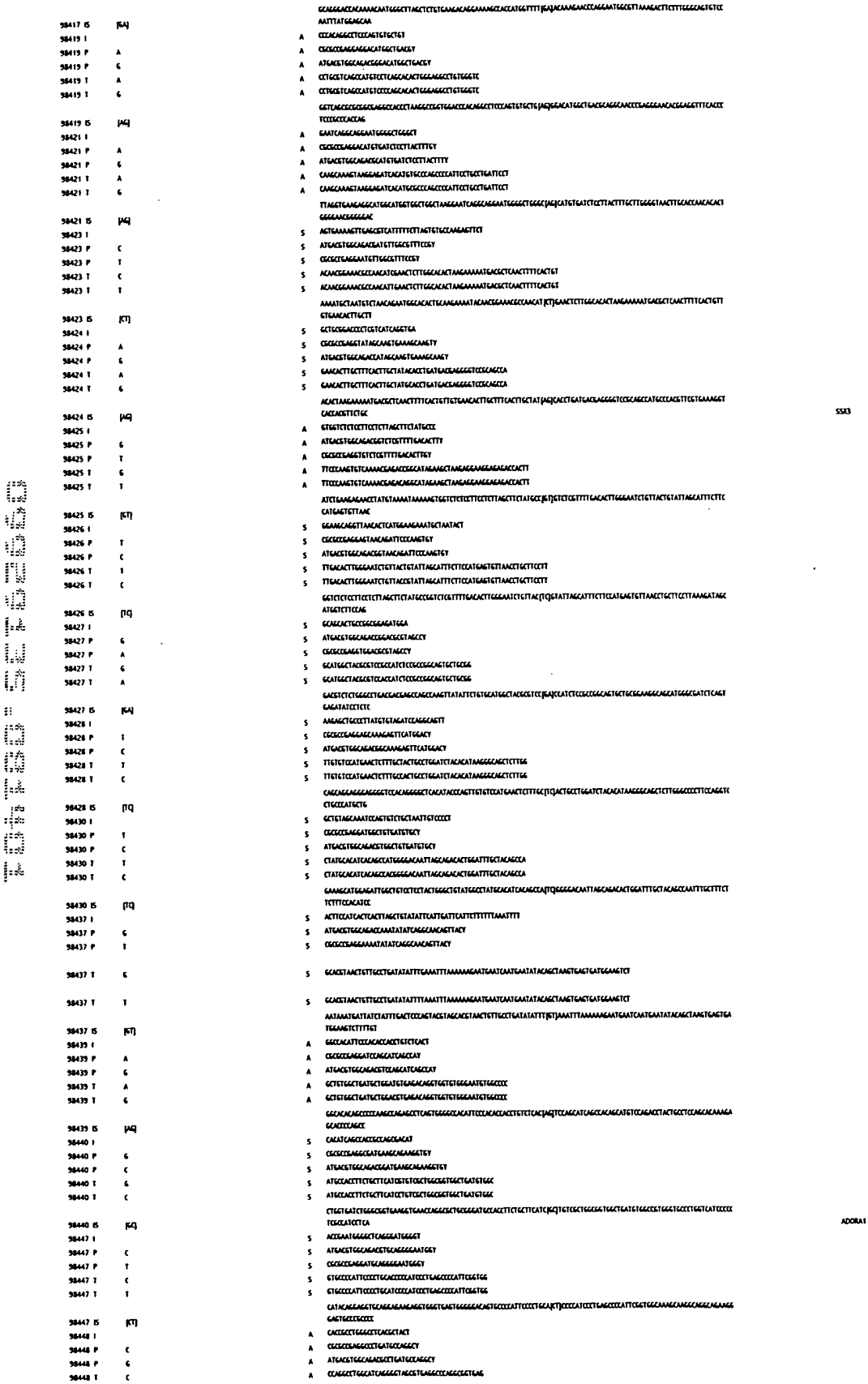


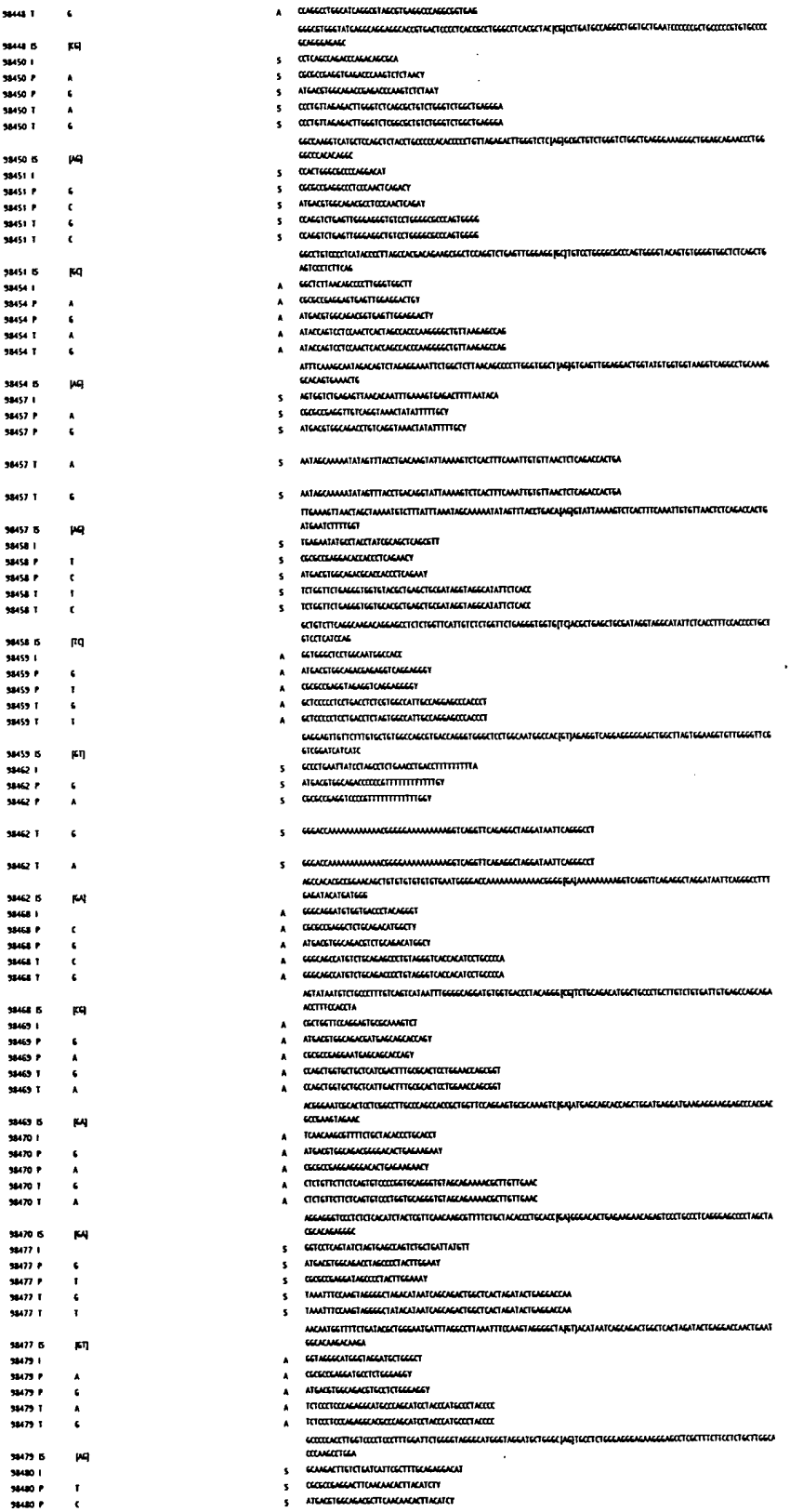


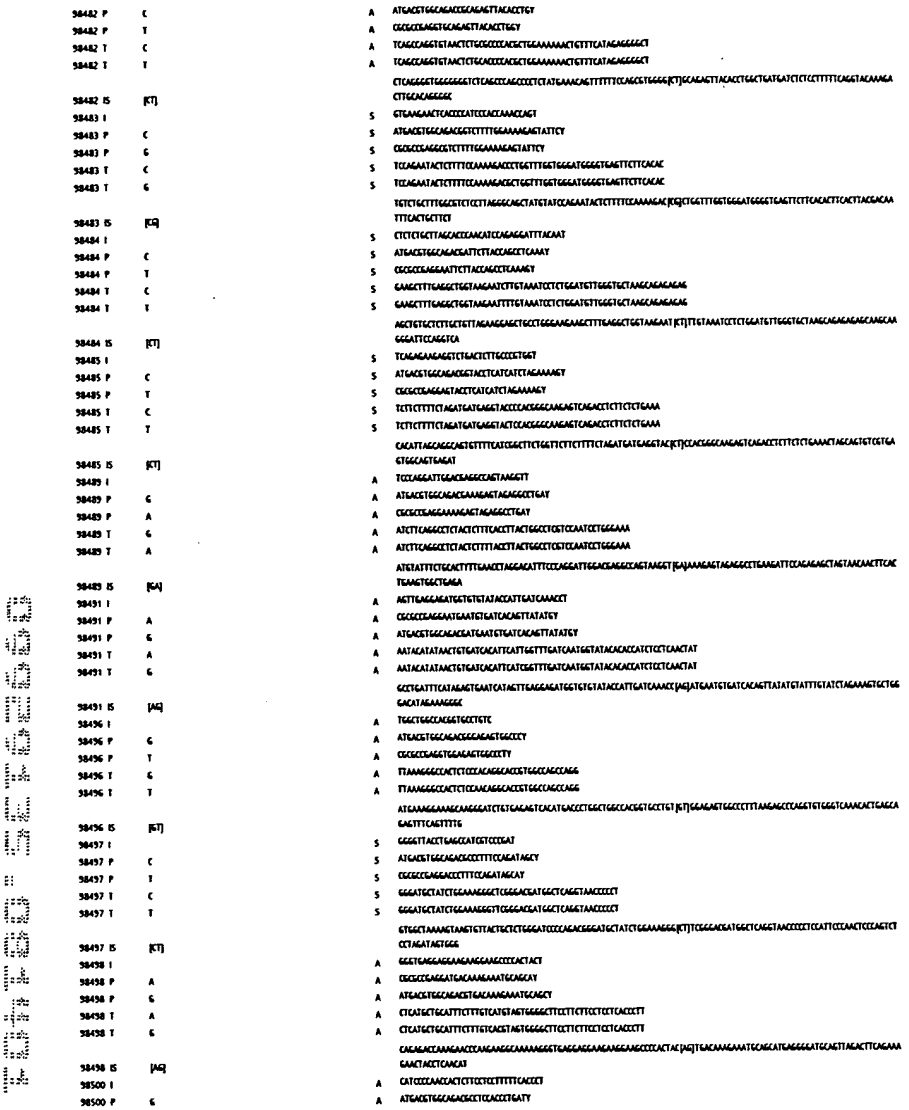


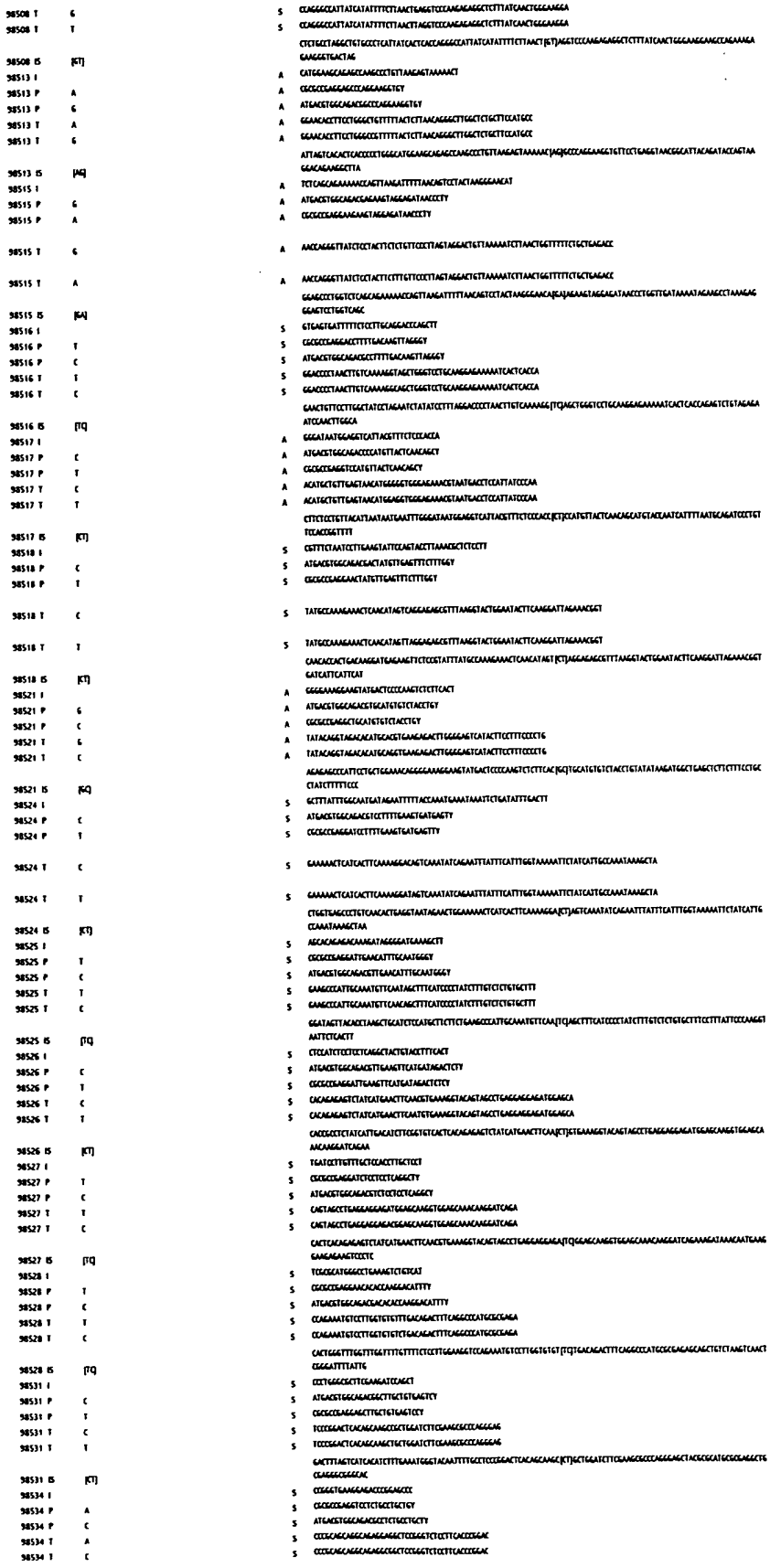
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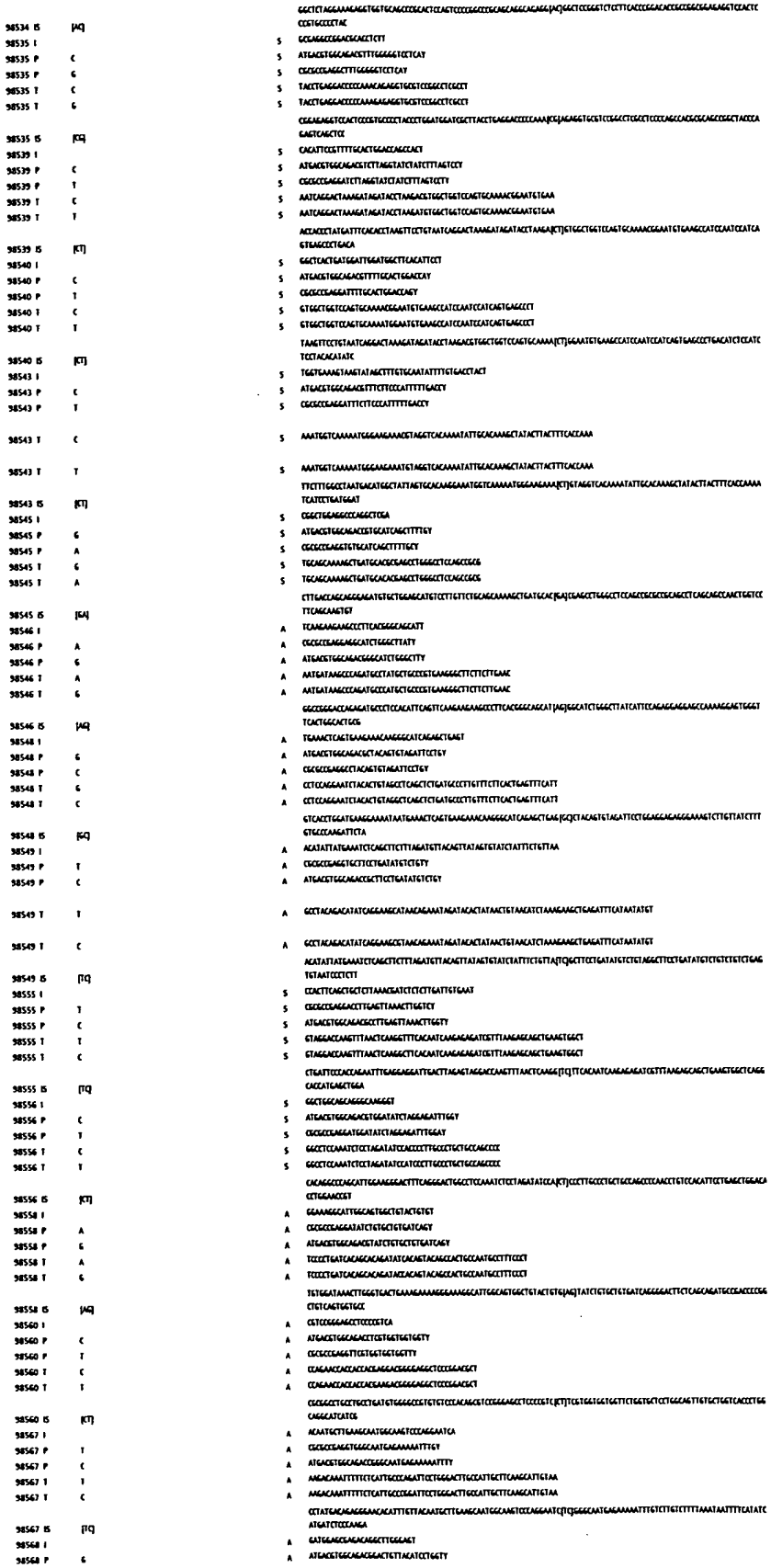






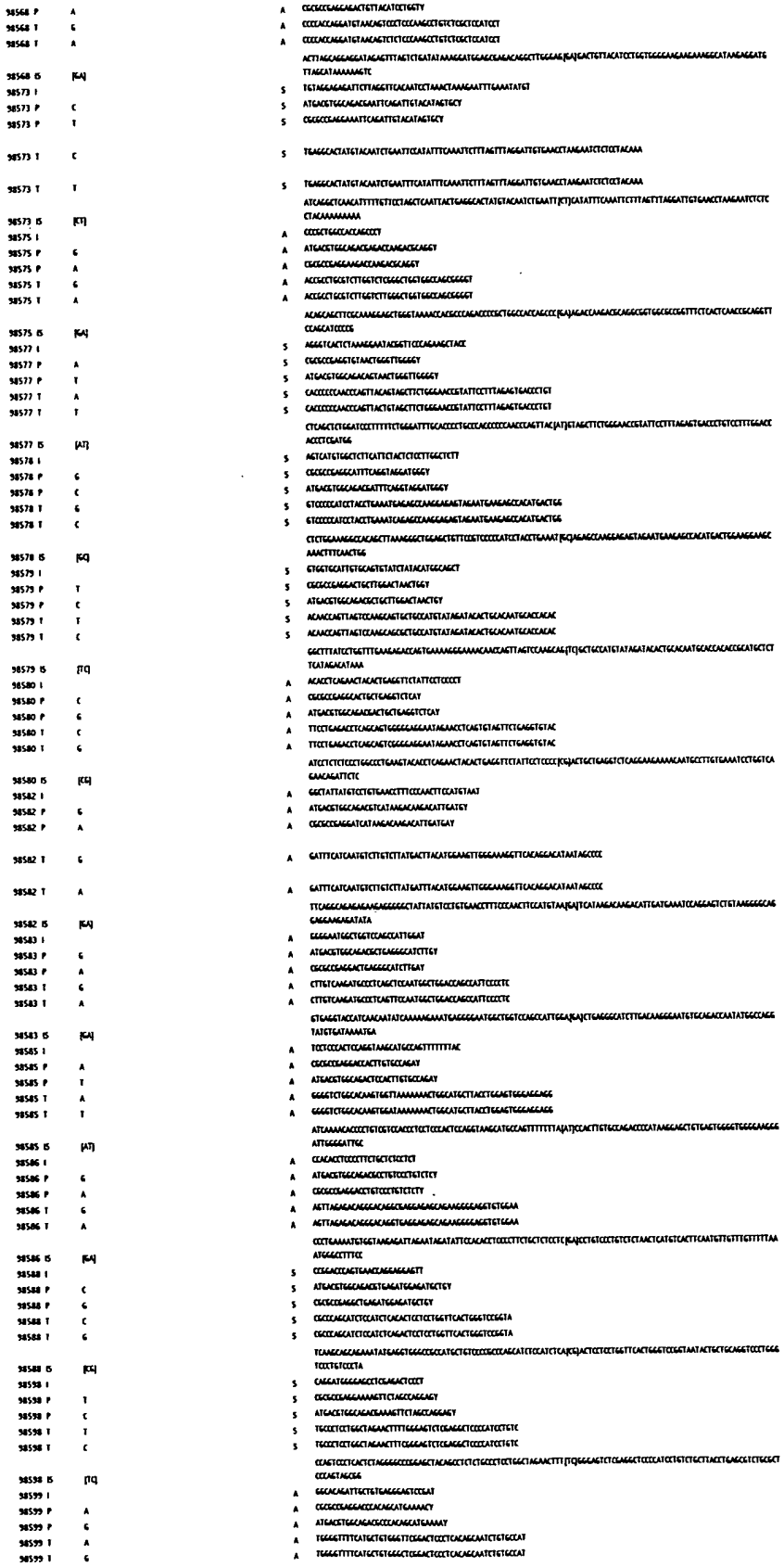

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98502 T C A AATGAAACGTAAGGAATTTGAAACATATGAAGGCTTCTTTCAAAAGCTGCTAGAATTACCTTCTGTT
98502 IS [TC] CAGAATTATAAGGTTTTAGATAAACAGAAGGTAATTCTAGCAGCTTTTGAAAGAAGCCTT[TC]ATATGTTTCAAATTCCTTACGTTTCATTGACTTTTGAGCTTCTCTGA TGACTACGACTCA
98505 I S GTGTTTGTGTGGATATAAATGAATACCCCTATATTCACACACACACACAT
98505 P G S CGCGCCGAGGCAAATATGTACACAGCCACAY
98505 P C S ATGACGTGGCAGACGAAATATGTACACAGCCACAY
98505 T G S GAGATGTGGCTGTGTACATATTTGTGTGTGTGTGTGTGAATATAGGGGTATTCATTTATATCCACACAAACACAC
98505 T C S GAGATGTGGCTGTGTACATATTTCTGTGTGTGTGTGTGAATATAGGGGTATTCATTTATATCCACACAAACACAC
98505 IS [GC] AAGGACGTTGTTATCGAAAGTGTAATCGCCCATGCCGAGATGTGGCTGTGTACATATTT[GC]TGTGTGTGTGTGTGAATATAGGGGTATTCATTTATATCCACACAAA CACACAGGCATGCC
98506 I A CATTCCATGCCTTCTTGTTGAGGGGACTCTGTAACATTACT
98506 P G A ATGACGTGGCAGACGAAATAAAATGTCCCAAGAACAY
98506 P A A CGCGCCGAGGAAAATAAAATGTCCCAAGAACACT
98506 T G A TAAAGTGTTCTTGGGACATTTTATTTGTAATGTTACAGAGTCCCCTCAACAAGAAGGCATGGAATGCT
98506 T A A TAAAGTGTTCTTGGGACATTTTATTTGTAATGTTACAGAGTCCCCTCAACAAGAAGGCATGGAATGCT
98506 IS [GA] AATGTGTCAAGTTTTGAACAGCATTCCATGCCTTCTTGTTGAGGGGACTCTGTAACATTAC[GA]AAATAAAATGTCCCAAGAACACTTTATTTGCAAATTTAGTTGACTCC TTACCTAATTCAG
98508 I S CTTCCCAGTTGATAAAGAGCCTCTCTTGGGACCTT
98508 P G S ATGACGTGGCAGACCAGTTAAGAAAATATGATAATGGCCY
98508 P T S CGCGCCGAGGAAGTTAAGAAAATATGATAATGGCCY





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FIGURE 129C



98599 IS	[AG]		CCAGTCCAACCTCCTCTTGCCCTACCCTAGGATGGCACAGATTGCTGTGAGGGAGTCCGA[AG]CCCACAGCATGAAAACCCCAGCAGCAAGCAGGGGACCCTCACCCATGGGCAGGTTCACAG	
98600 I		A	GGGCTATGATCAAATCCTTACCACTCTGGGCCATTTTT	
98600 P	A	A	CGCGCCGAGGAGTCTCTTATTTCTGTGAATACTGY	
98600 P	G	A	ATGACGTGGCAGACGGTCTCTTATTTCTGTGAATACTY	
98600 T	A	A	AAGCCAGTATTCACAGAAATAAGAGACTAAAATGGCCCAGAGTGGTAAGGATTTGATCATAGCCCTA	
98600 T	G	A	AAGCCAGTATTCACAGAAATAAGAGACCAAAATGGCCCAGAGTGGTAAGGATTTGATCATAGCCCTA	
98600 IS	[AG]		ACCAGGCTGGTCTCTTCCCATTAGGGCTATGATCAAATCCTTACCACTCTGGGCCATTTT[AG]GTCTCTTATTTCTGTGAATACTGGCTTTTTTATACCATTATGGCGTACACACCAACGTAC	SLC17A4
98603 I		A	GGCCGGCCCCGGGGACAAT	
98603 P	G	A	ATGACGTGGCAGACGGTGCCCACGACGY	
98603 P	A	A	CGCGCCGAGGAGTGCCCACGACGY	
98603 T	G	A	CATTCGTCGTGGGCACCTTGTCCCCGGGGCCGGCCAG	
98603 T	A	A	CATTCGTCGTGGGCACTTTGTCCCCGGGGCCGGCCAG	
98603 IS	[GA]		AGATGCTTCCGGCAGGATGATGAGCCAGGAGGCCAAGTAACTGGCCGGCCCCGGGGACAA[GA]GTGCCCACGACGAATGACGACACGAGTAAACCAGGCCACTGCTGATCCTCCTGAGGCTGC	
98604 I		S	CCCCTGCAGCCTCAGGAGGATCAGCT	
98604 P	T	S	CGCGCCGAGGAGTGGCCTGGTTTACTY	
98604 P	G	S	ATGACGTGGCAGACCGTGGCCTGGTTTACY	
98604 T	T	S	CACGAGTAAACCAGGCCACTGCTGATCCTCCTGAGGCTGCAGGGGCC	
98604 T	G	S	CACGAGTAAACCAGGCCACGGCTGATCCTCCTGAGGCTGCAGGGGCC	
98604 IS	[TG]		CTGGCCGGCCCCGGGGACAAGGTGCCCACGACGAATGACGACACGAGTAAACCAGGCCAC[TG]GCTGATCCTCCTGAGGCTGCAGGGGCCCTGTGTCCCCACCCGTTCCCTTTATGCGTCTCC	
98607 I		A	CCGTTGGTAGAAATGGGGCTTGCAGATAAAGATGAT	
98607 P	A	A	CGCGCCGAGGATAAGTGCCTAAGTGTAAGTTCY	
98607 P	G	A	ATGACGTGGCAGACGTAAGTGCCTAAGTGTAAGTTY	
98607 T	A	A	ATGAGAACTTACACTTAGGCACTTATTCATCTTTATCTGCAAGCCCCATTTCTACCAACGGCA	
98607 T	G	A	ATGAGAACTTACACTTAGGCACTTACTCATCTTTATCTGCAAGCCCCATTTCTACCAACGGCA	
98607 IS	[AG]		CGATGAACAGCATCCAGTTCATATGCCGTTGGTAGAAATGGGGCTTGCAGATAAAGATGA[AG]TAAGTGCCTAAGTGTAAGTTCTCATTCTCTTCATAGCATAAGGCATGGGACTAGTGGAGA	
98610 I		S	CCGGGCAGGGCCTGCCACTGT	
98610 P	C	S	ATGACGTGGCAGACGCCTGGAGTGGCAY	
98610 P	T	S	CGCGCCGAGGACCTGGAGTGGCAGY	
98610 T	C	S	CCCGCTGCCACTCCAGGCCAGTGGCAGGCCCTGCCCCGGGG	
98610 T	T	S	CCCGCTGCCACTCCAGGTCAGTGGCAGGCCCTGCCCCGGGG	
98610 IS	[CT]		GCCCTGTATCCAGGCTTCACTGCACATGGAAGCCCAGCCCCAACCCCGCTGCCACTCCAGG[CT]CAGTGGCAGGCCCTGCCCCGGGGGACTGGGAGGTGGAGTCTATCAAGAGAGAGCTGGGTTG	
98611 I		A	ACTTCCATGACCTTGATTGGGCTGCCAAGTT	
98611 P	A	A	CGCGCCGAGGATTCACATATCACTTGCGTY	
98611 P	G	A	ATGACGTGGCAGACGTTCACATATCACTTGCGTY	
98611 T	A	A	GTGGACGCAAGTGATATGTGAATACTTGGCAGCCCAATCAAGGTCATGGAAGTGG	
98611 T	G	A	GTGGACGCAAGTGATATGTGAACACTTGGCAGCCCAATCAAGGTCATGGAAGTGG	
98611 IS	[AG]		ACATCTGGAACCATTGGAGCAAAAGAAACCACTTCCATGACCTTGATTGGGCTGCCAAGT[AG]TTCACATATCACTTGCGTCCACCTCTCAGCAGTTTTCCCAACTGCGCGGTTGCTGAGCAG	
98613 I		A	ACAGAATTTCGTGAACAGCCTTTTATCTCCAAGCC	
98613 P	G	A	ATGACGTGGCAGACGGAAAGAAAGGTACTTGTGCY	
98613 P	T	A	CGCGCCGAGGTGAAAGAAAGGTACTTGTGCY	
98613 T	G	A	CAATGCACAAGTACCTTTCTTTCCGCTTGGAGATAAAAGGCTGTTCACGAAATTCTGTTT	
98613 T	T	A	CAATGCACAAGTACCTTTCTTTCAGCTTGGAGATAAAAGGCTGTTCACGAAATTCTGTTT	
98613 IS	[GT]		TTCCTCATTGGATTACTGTGTTTTAAACAGAATTTCGTGAACAGCCTTTTATCTCCAAGC[GT]GAAAGAAAGGTACTTGTGCATTGTGAACATCCTAACATTCTTTTCCTGTGGATGGTAAGG	
98614 I		A	AGTCGTCCCTCAGTCTTTCCTTAGATCAGCACTTTTGAGC	
98614 P	T	A	CGCGCCGAGGTCCATCTGCTGAGGTTY	
98614 P	A	A	ATGACGTGGCAGACACCATCTGCTGAGGTTY	
98614 T	T	A	TCGCAACCTCAGCAGATGGACTCAAAACTGCTGATCTAAGGAAAGACTGAGGGACGACTCT	
98614 T	A	A	TCGCAACCTCAGCAGATGGTCTCAAAACTGCTGATCTAAGGAAAGACTGAGGGACGACTCT	
98614 IS	[TA]		GACCACTAGACTGGGTGGCAGAGTCGTCCCTCAGTCTTTCCTTAGATCAGCAGTTTTGAG[TA]CCATCTGCTGAGGTTGCGATTTGCCCCGGAGTAGACCCCTGTTGATTGGACTTACTCATGA	
98617 I		S	ACTGCTGGAGCCCCGGTCCCTGTCT	
98617 P	C	S	ATGACGTGGCAGACGCAGGACCACAGCCY	
98617 P	T	S	CGCGCCGAGGACAGGACCACAGCCY	
98617 T	C	S	AGCAGGCTGTGGTCCTGCGACAGGGACCGGGCTCCAGCAGTTG	
98617 T	T	S	AGCAGGCTGTGGTCCTGTGACAGGGACCGGGCTCCAGCAGTTG	
98617 IS	[CT]		CTGGGAGAATGAAGGCCCCCACACACAAGACTCCTGGCCCTGGAGGAGGCTGTGGTCCTG[CT]GACAGGGACCGGGCTCCAGCAGTTGTGCAGGACACTCACGCTAGCACTGAGGTAGGAGCC	
98619 I		A	GCCTCCTTTGTTCACTACAGAAATCCTCGACAGAACAAA	
98619 P	T	A	CGCGCCGAGGTGAATGGATGTTTCTATCCAGY	
98619 P	C	A	ATGACGTGGCAGACCGAATGGATGTTTCTATCCAY	
98619 T	T	A	TACTCTGGATAGAAACATCCATTCATTGTTCTGTCGAGGATTTCTGTAGTGAACAAAGGAGGCCG	
98619 T	C	A	TACTCTGGATAGAAACATCCATTCGTTGTTCTGTCGAGGATTTCTGTAGTGAACAAAGGAGGCCG	
98619 IS	[TC]		ACCCCCATGAGCCCCTGACCCGGCCTCCTTTGTTCACTACAGAAATCCTCGACAGAACAA[TC]GAATGGATGTTTCTATCCAGAGTAATATATTTGACTCGTGCAATATTTTAGCGTCAGTAT	
98627 I		S	CCCGGGCCAGGTGGGGGTT	
98627 P	C	S	ATGACGTGGCAGACGAGGCCTGGGAGTTCY	
98627 P	T	S	CGCGCCGAGGAAGGCCTGGGAGTTCY	
98627 T	C	S	ACCAGAACTCCCAGGCCTCACCCCCACCTGGCCCCGGTC	
98627 T	T	S	ACCAGAACTCCCAGGCCTTACCCCCACCTGGCCCCGGTC	
98627 IS	[CT]		GGTGGGGCTTGCTCTCCAGAGCTGTCCTCCCCGAGTCCACTCACCAGAACTCCCAGGCCT[CT]ACCCCCACCTGGCCCCGGGTCCCCGACTCCCCCAGCCCTCGCCCAGCCCCTGCCCAGCGCT	
98628 I		S	GGCAGGGAGCATCGAGTACAGCTGTCCT	
98628 P	C	S	ATGACGTGGCAGACGGCCTCCAACGAGTY	
98628 P	T	S	CGCGCCGAGGAGCCTCCAACGAGTGY	
98628 T	C	S	CTCACACTCGTTGGAGGCCGGACAGCTGTACTCGATGCTCCCTGCCAG	
98628 T	T	S	CTCACACTCGTTGGAGGCTGGACAGCTGTACTCGATGCTCCCTGCCAG	
98628 IS	[CT]		GAAGCGGCAGGCCTGGCAGGCCTTGCGTCTCCGCTTGGTGATCTCACACTCGTTGGAGGC[CT]GGACAGCTGTACTCGATGCTCCCTGCCAGGAAGAGGCAGGGCTCCAGTGGCGGCCTCCCG	
98629 I		A	GATGAGGAGGCTGAGGCTCTGGACACCT	
98629 P	G	A	ATGACGTGGCAGACGAGCCCGGTGCTCY	
98629 P	A	A	CGCGCCGAGGAAGCCCGGTGCTCY	
98629 T	G	A	AGATGAGCACCGGGCTCGGTGTCCAGAGCCTCAGCCTCCTCATCCA	
98629 T	A	A	AGATGAGCACCGGGCTTGGTGTCCAGAGCCTCAGCCTCCTCATCCA	
98629 IS	[GA]		GATCGCCCTGGGAGGTCTGCAGAGCCCACTCTGGATGAGGAGGCTGAGGCTCTGGACACC[GA]AGCCCGGTGCTCATCTCCAGCTTGAGCGCCCCCAAACGCCCACCCCCAGCGGCGCGGCC	
98630 I		S	GGTGTCTGAGTGGCTCTCTCGGGGGAT	
98630 P	C	S	ATGACGTGGCAGACGGGCAGATTGTGATGAAGTGY	
98630 P	G	S	CGCGCCGAGGCGGCAGATTGTGATGAAGTGY	
98630 T	C	S	TTTTCACTTCATCACAATCTCCCTCCCCCGACAGAGCCACTCAGACACCAG	

FIGURE 129C

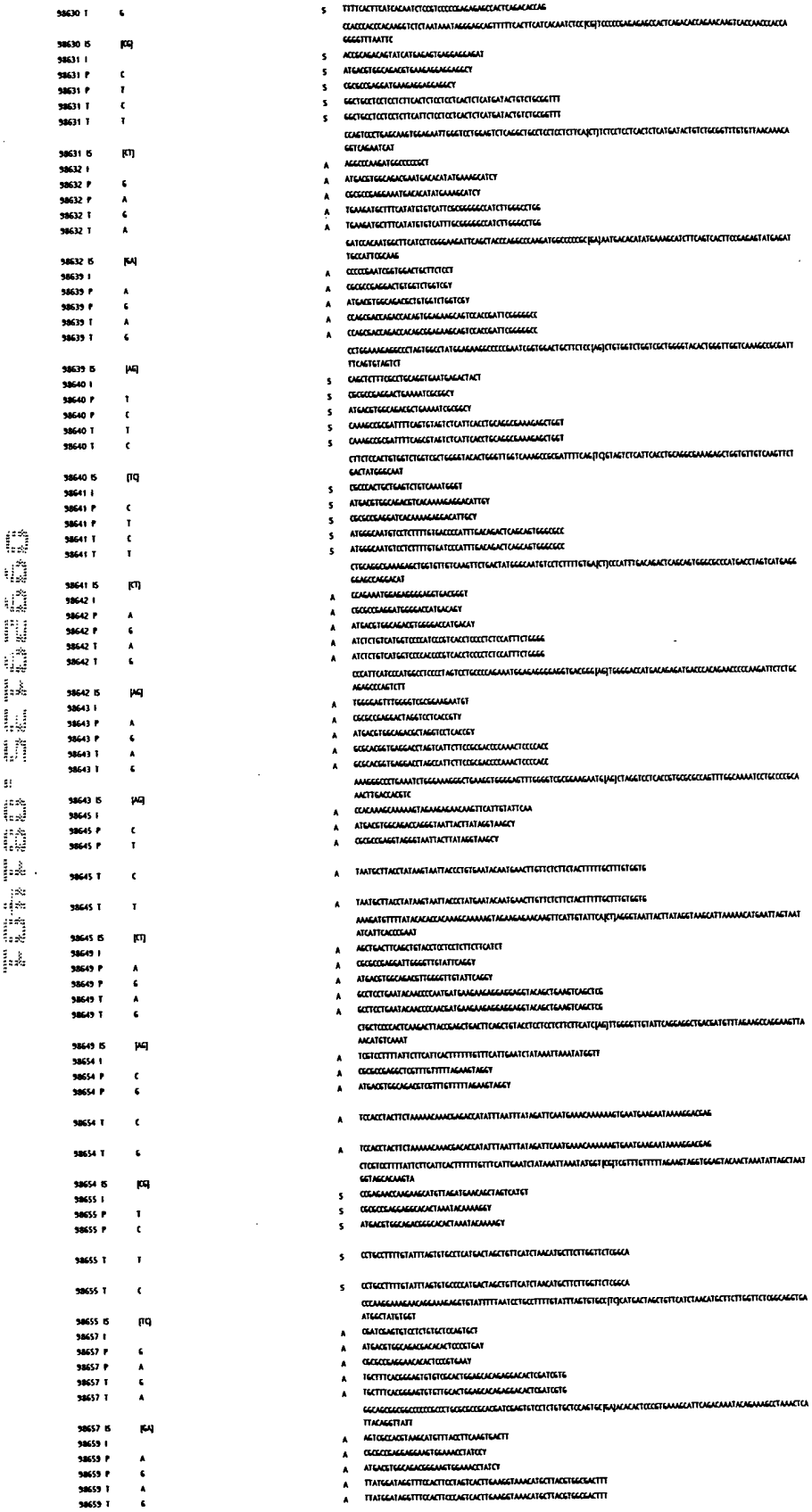


FIGURE 129C

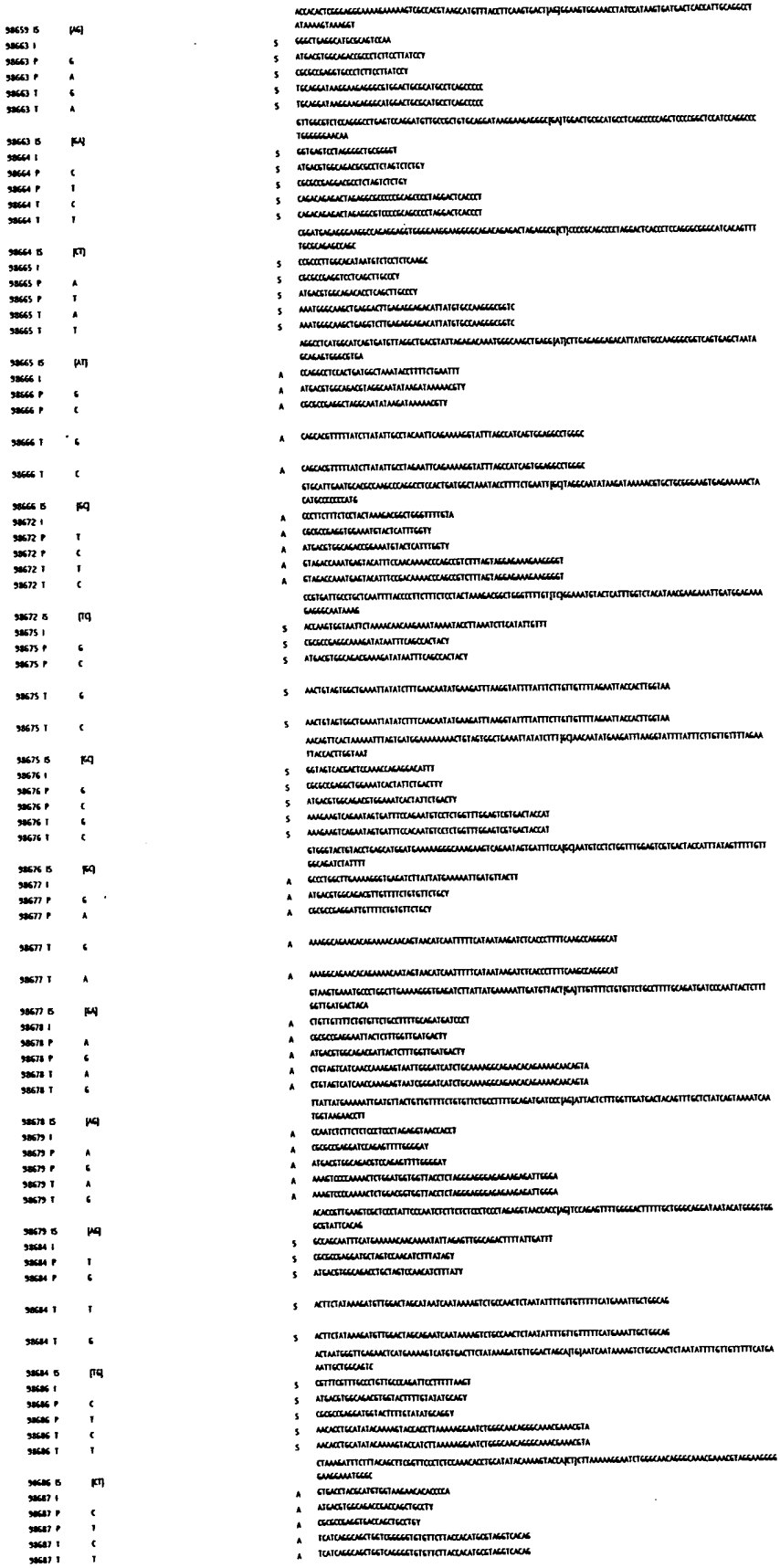
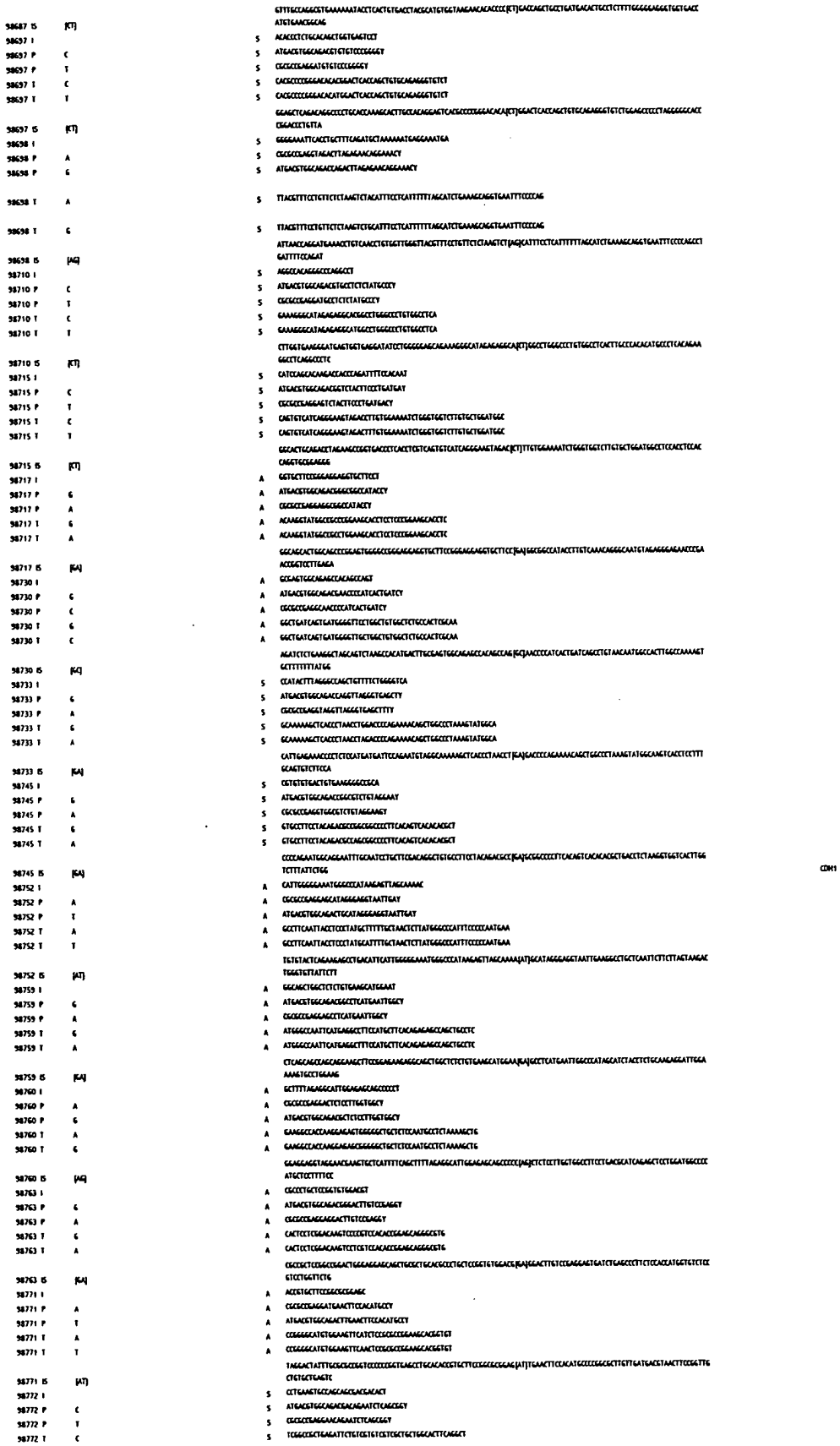


FIGURE 129C



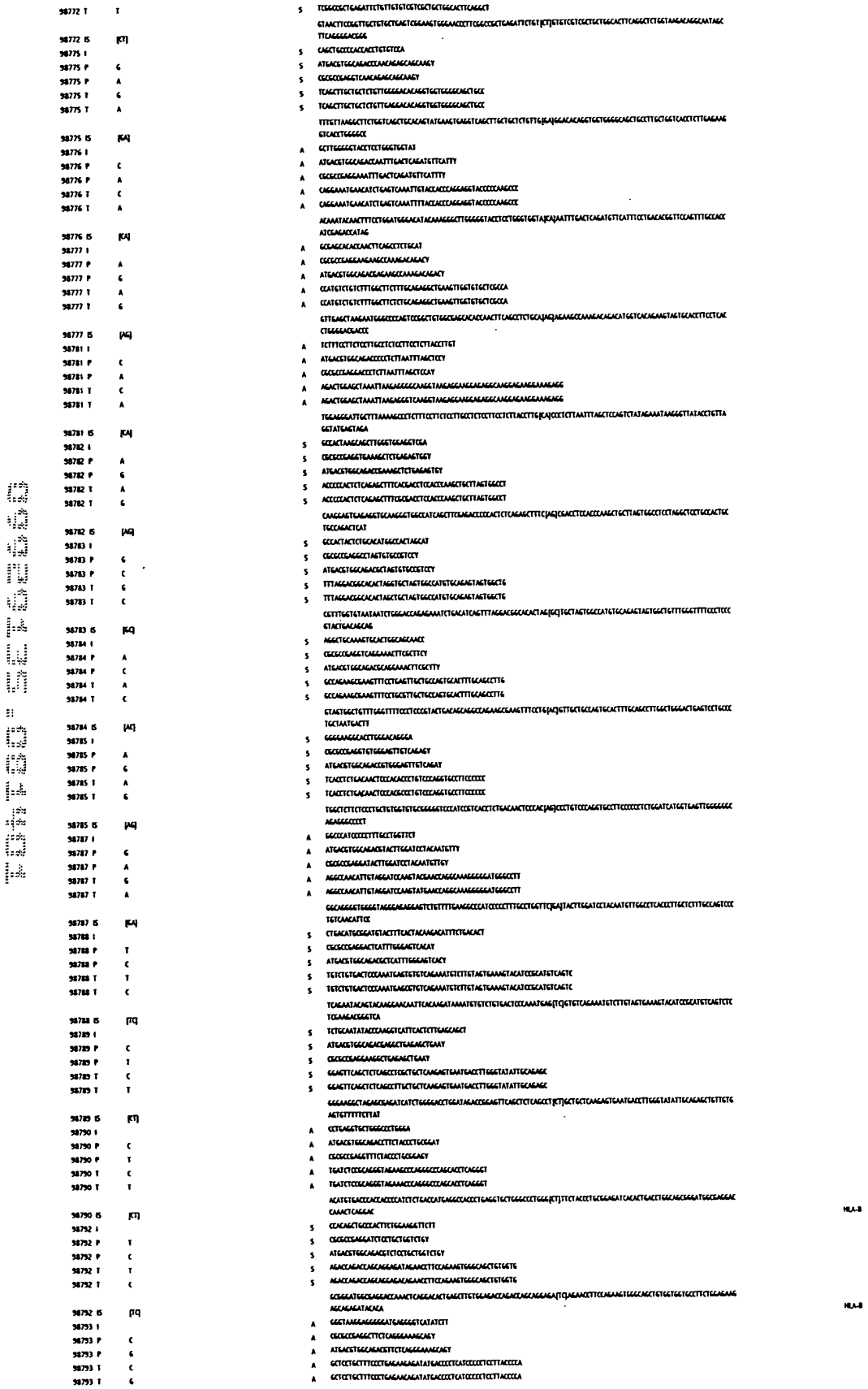


FIGURE 129C

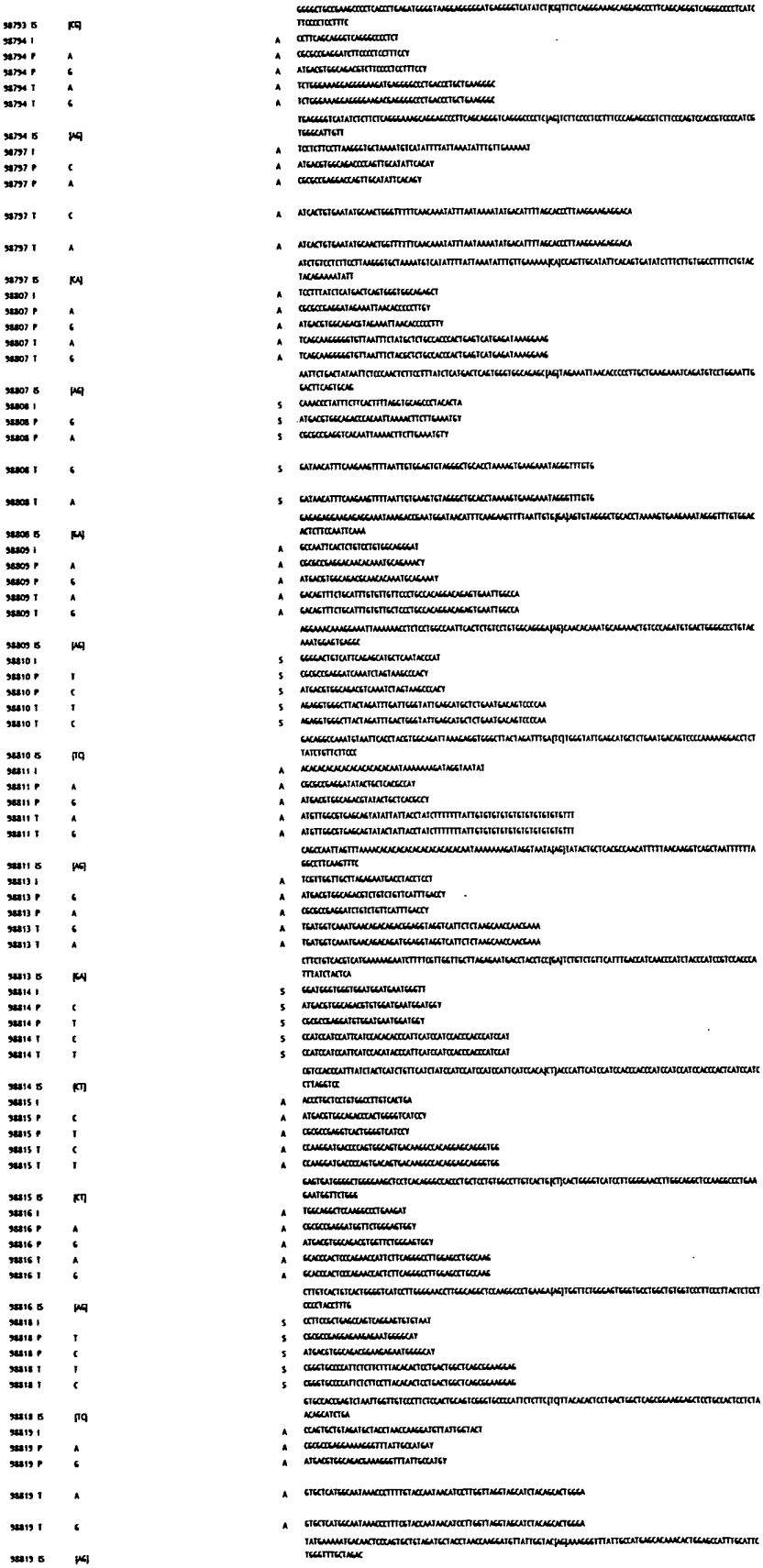
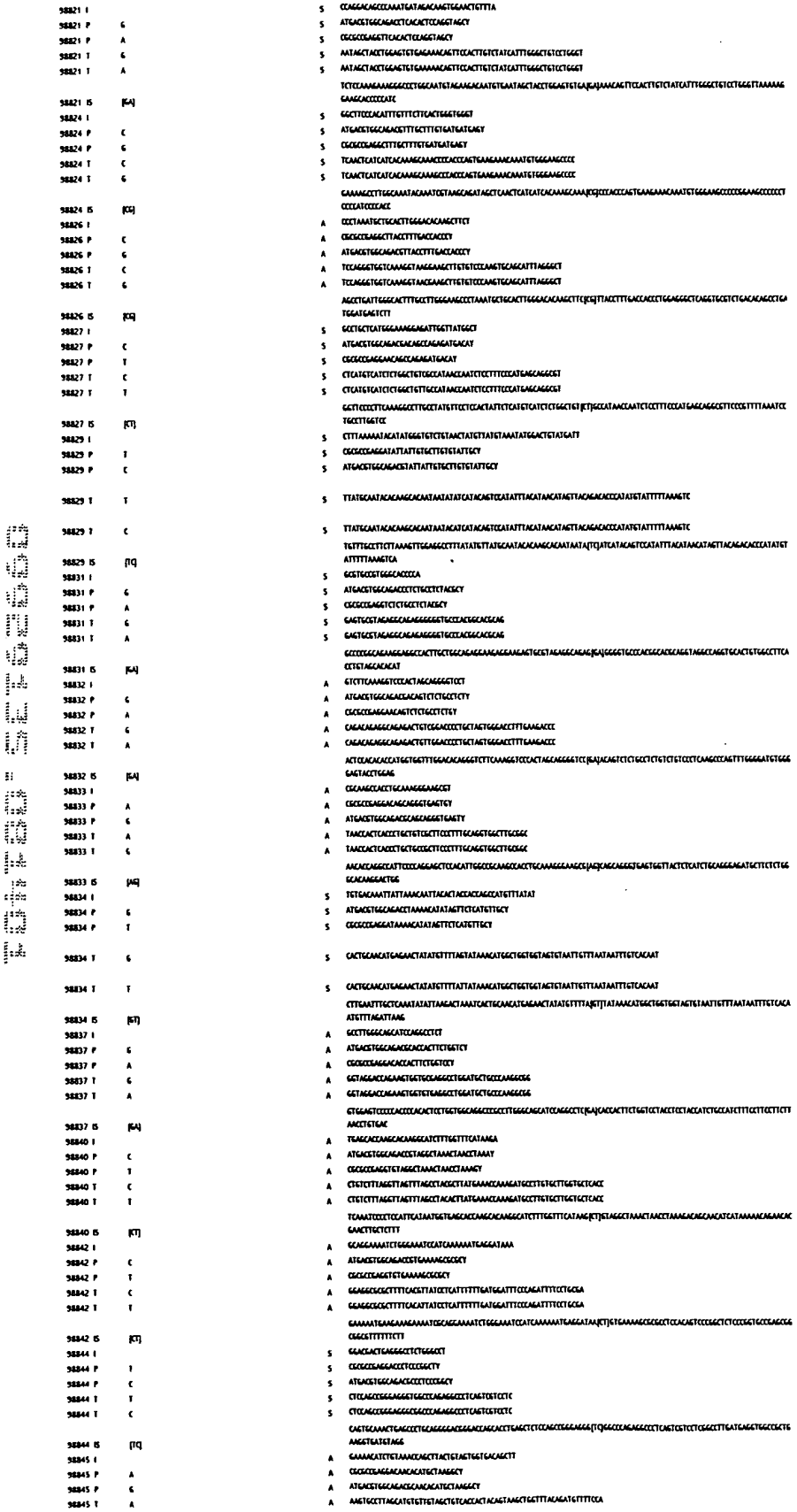
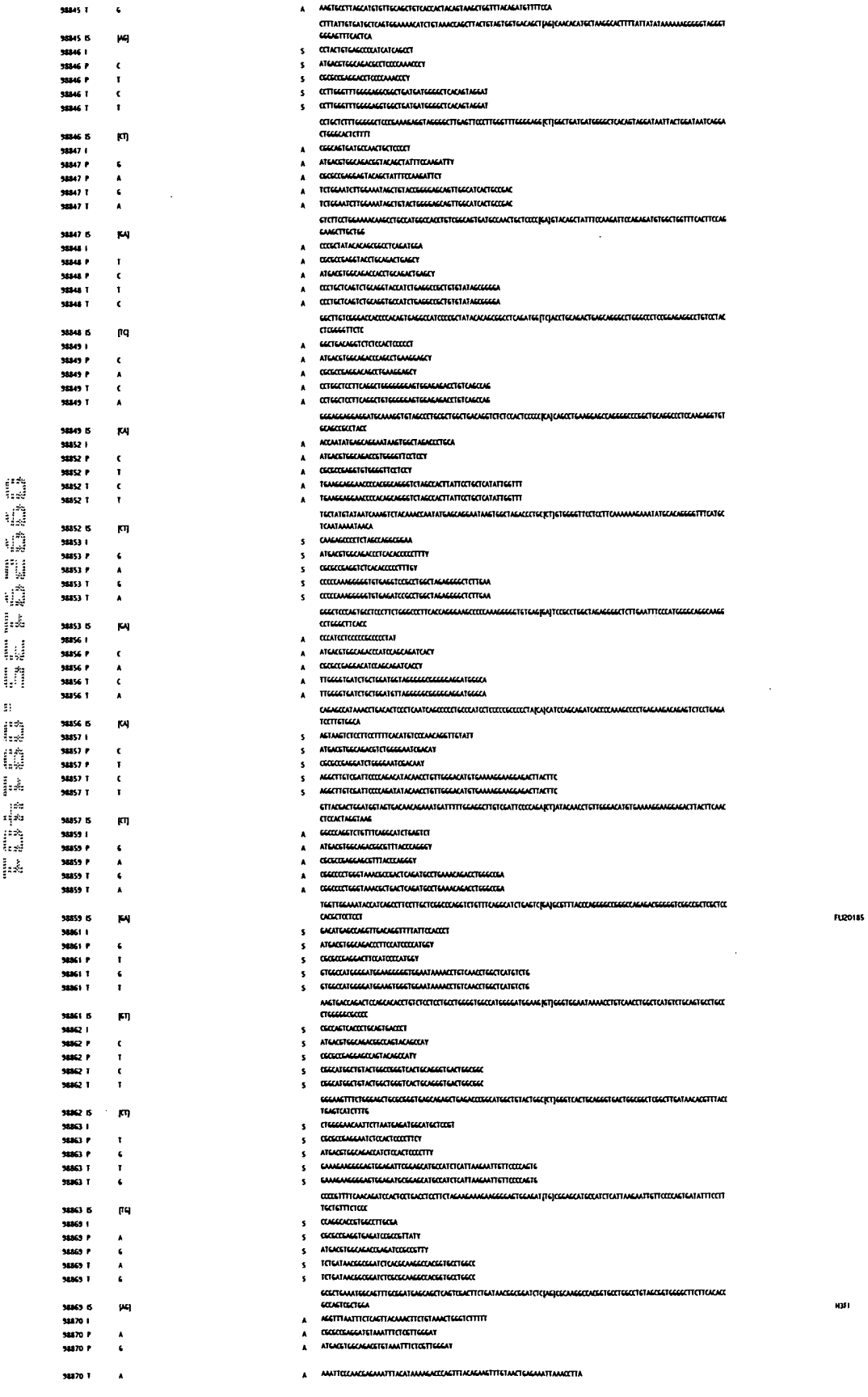


FIGURE 129C

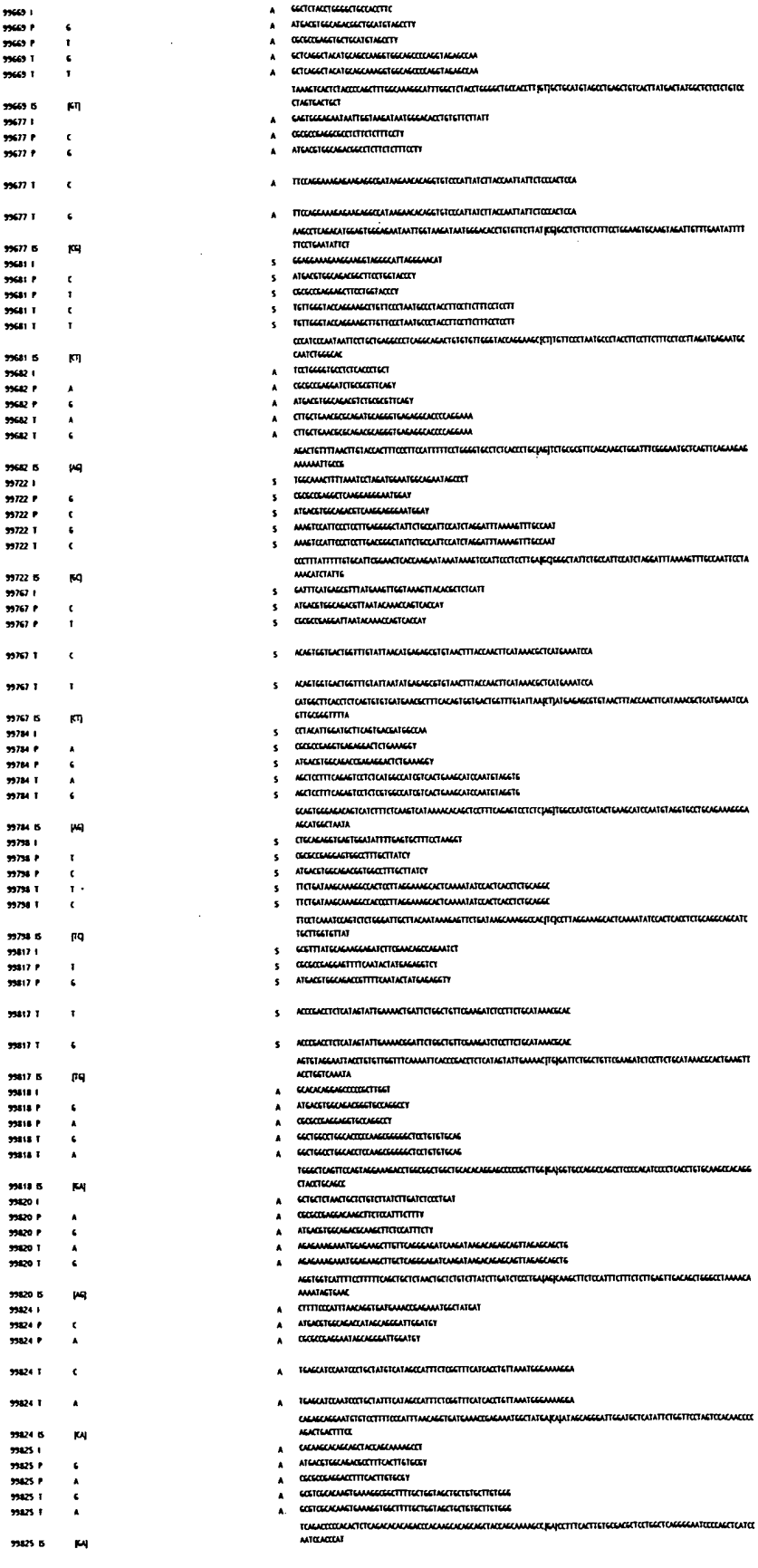






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FIGURE 129C



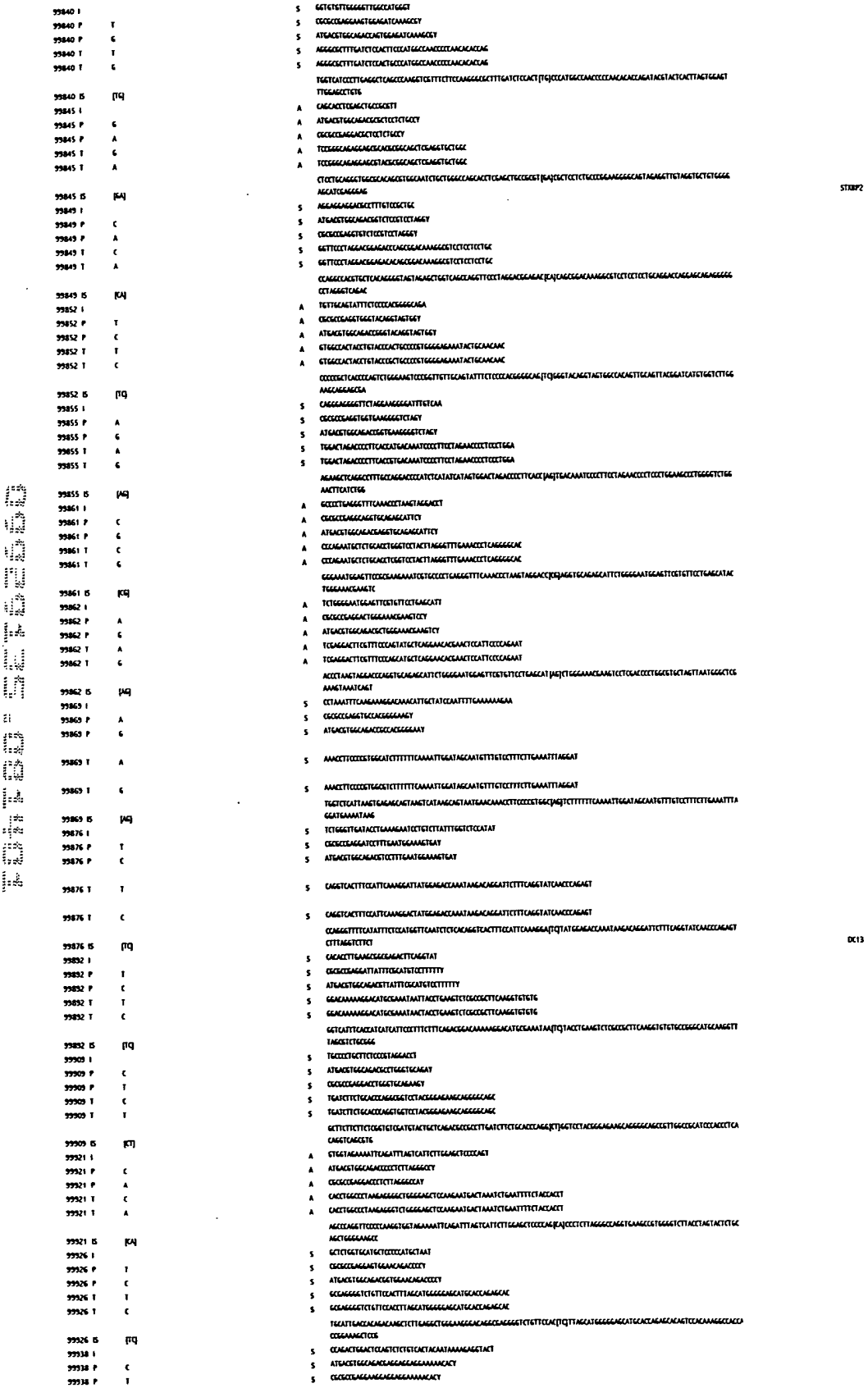
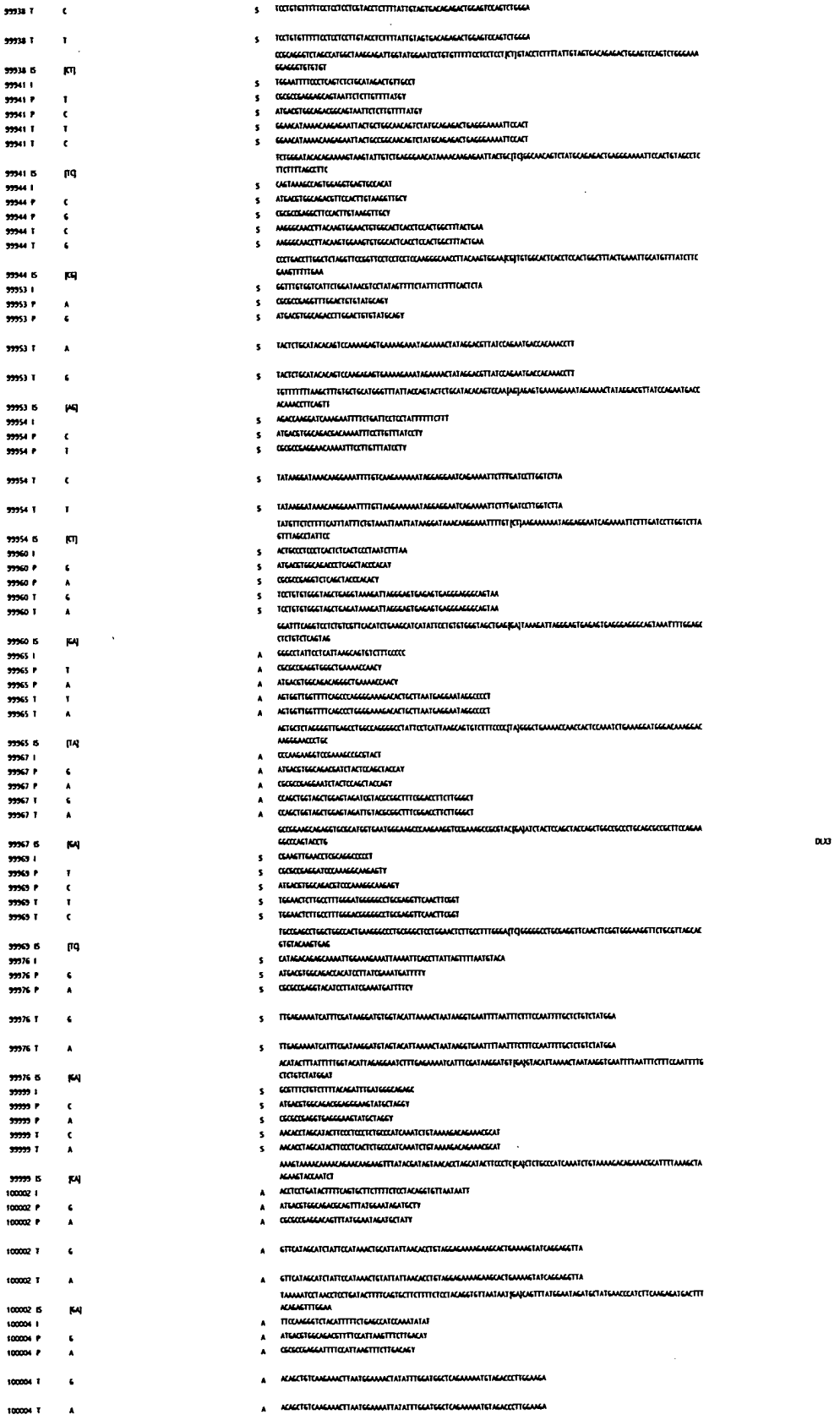

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99840 P G
99840 T T
99840 T G
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99845 I
99845 P G
99845 P A
99845 T G
99845 T A
99845 IS [GA]
99849 I
99849 P C
99849 P A
99849 T C
99849 T A
99849 IS [CA]
99852 I
99852 P T
99852 P C
99852 T T
99852 T C
99852 IS [TC]
99855 I
99855 P A
99855 P G
99855 T A
99855 T G
99855 IS [AG]
99861 I
99861 P C
99861 P G
99861 T C
99861 T G
99861 IS [CG]
99862 I
99862 P A
99862 P G
99862 T A
99862 T G
99862 IS [AG]
99869 I
99869 P A
99869 P G
99869 T A
99869 T G
99869 IS [AG]
99876 I
99876 P T
99876 P C
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99876 T C
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99921 IS [CA]
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99926 P T
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S
STXBP2
DC13

FIGURE 129C



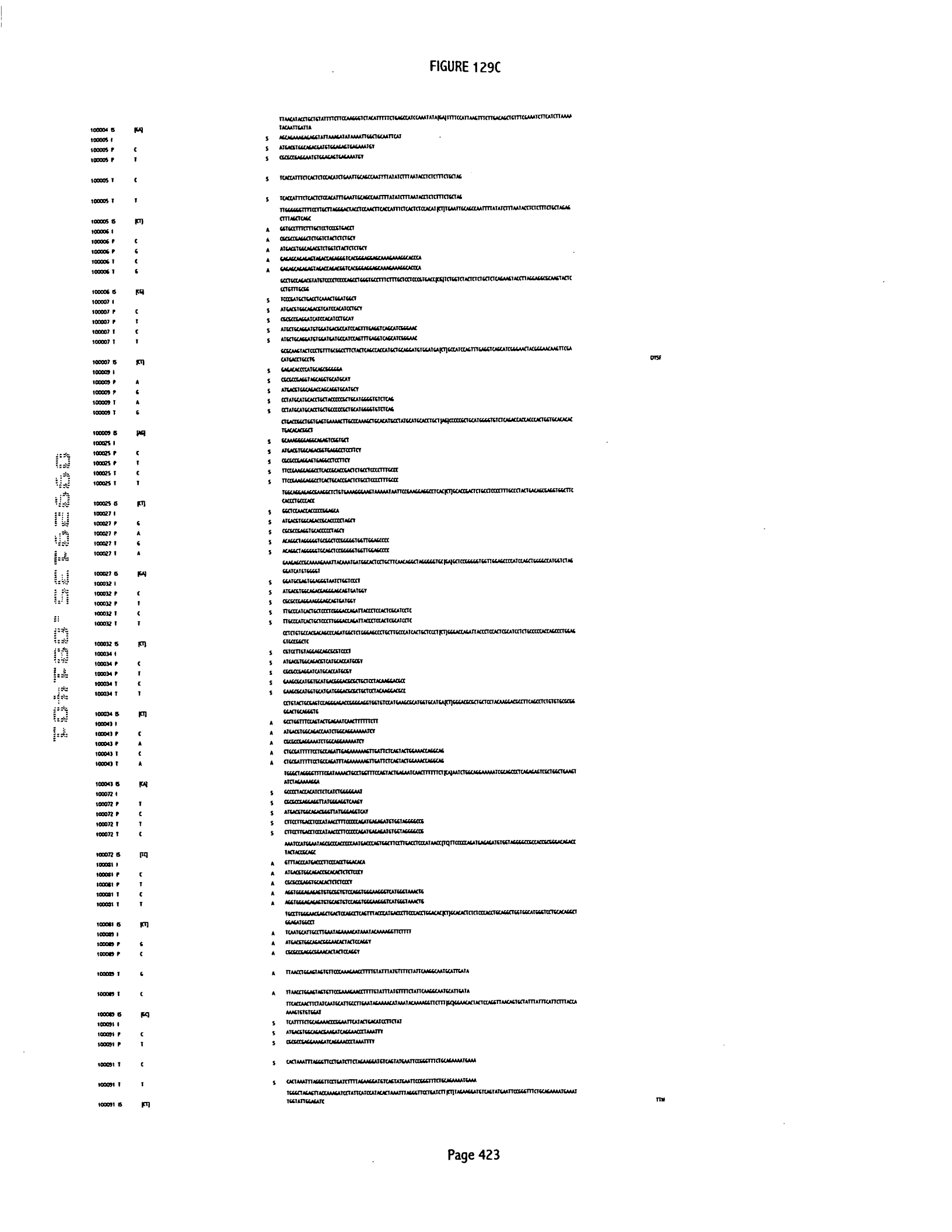


FIGURE 129C

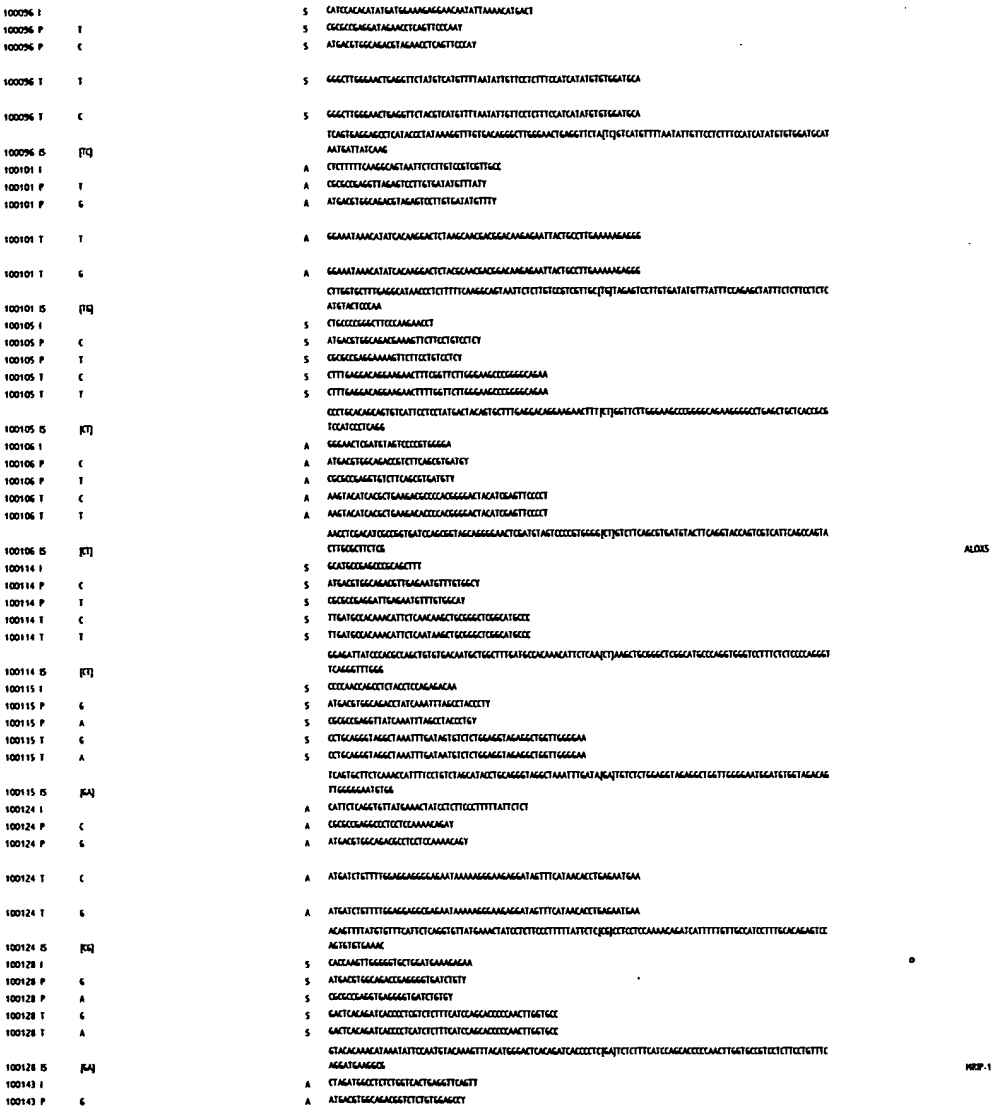
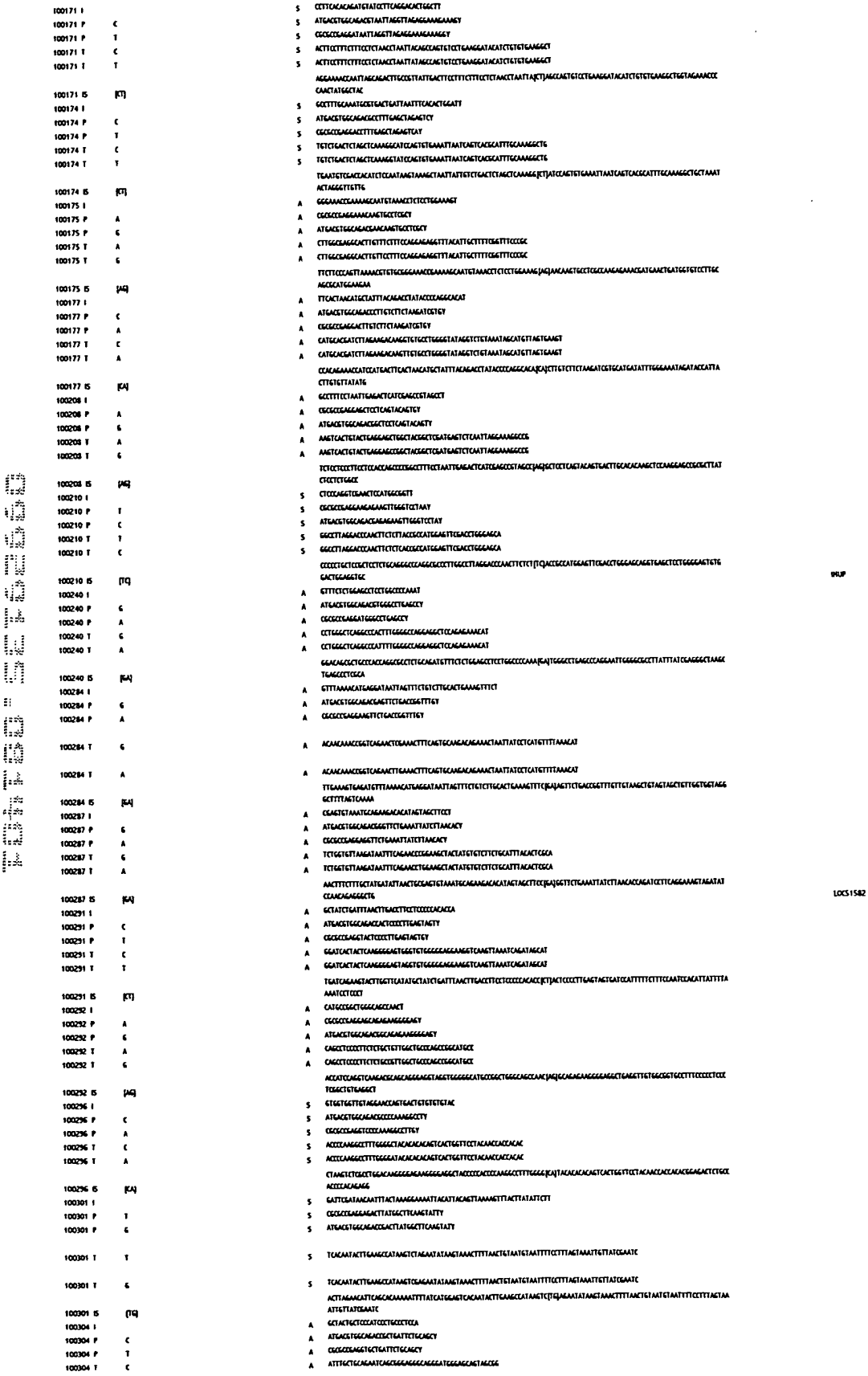
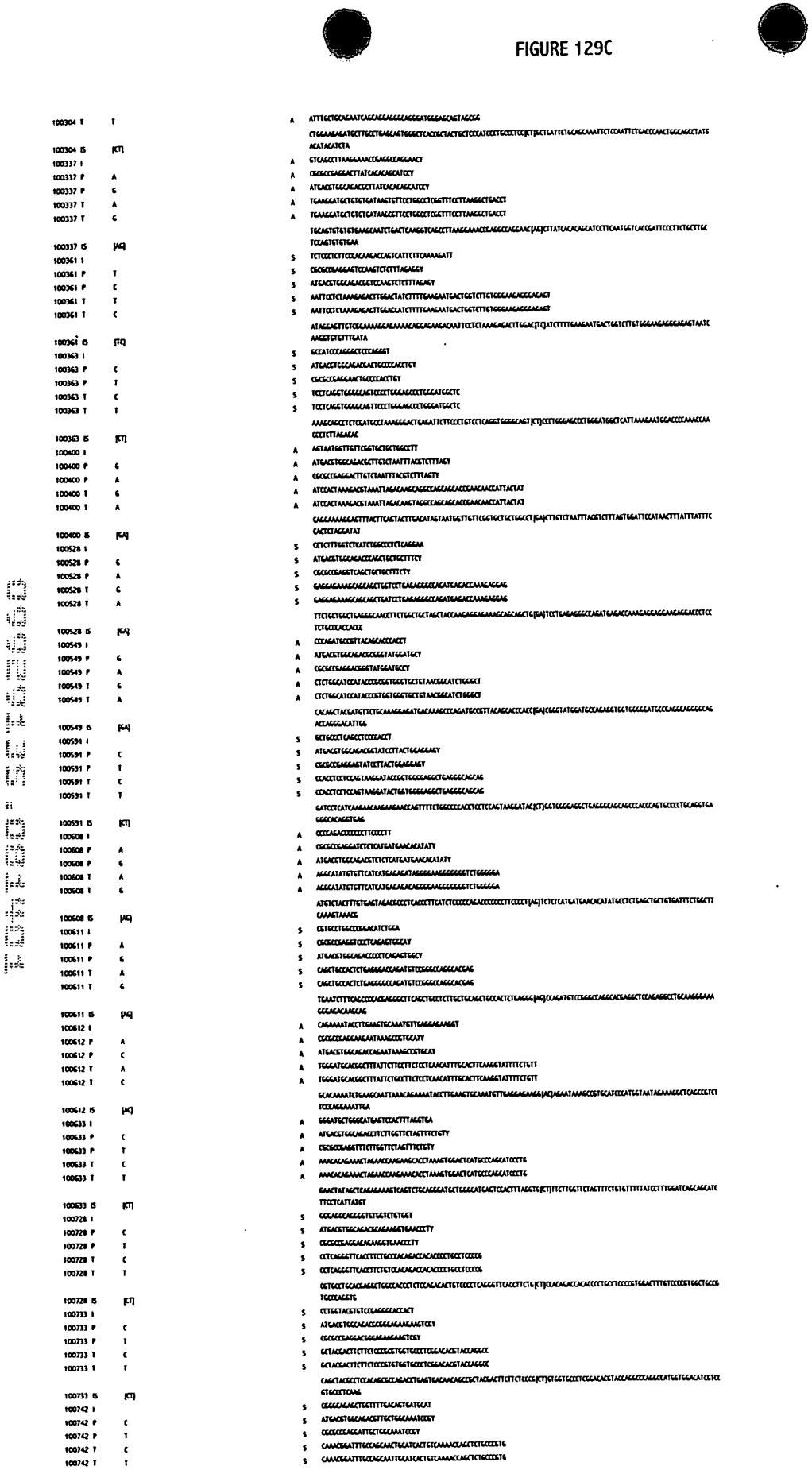


FIGURE 129C





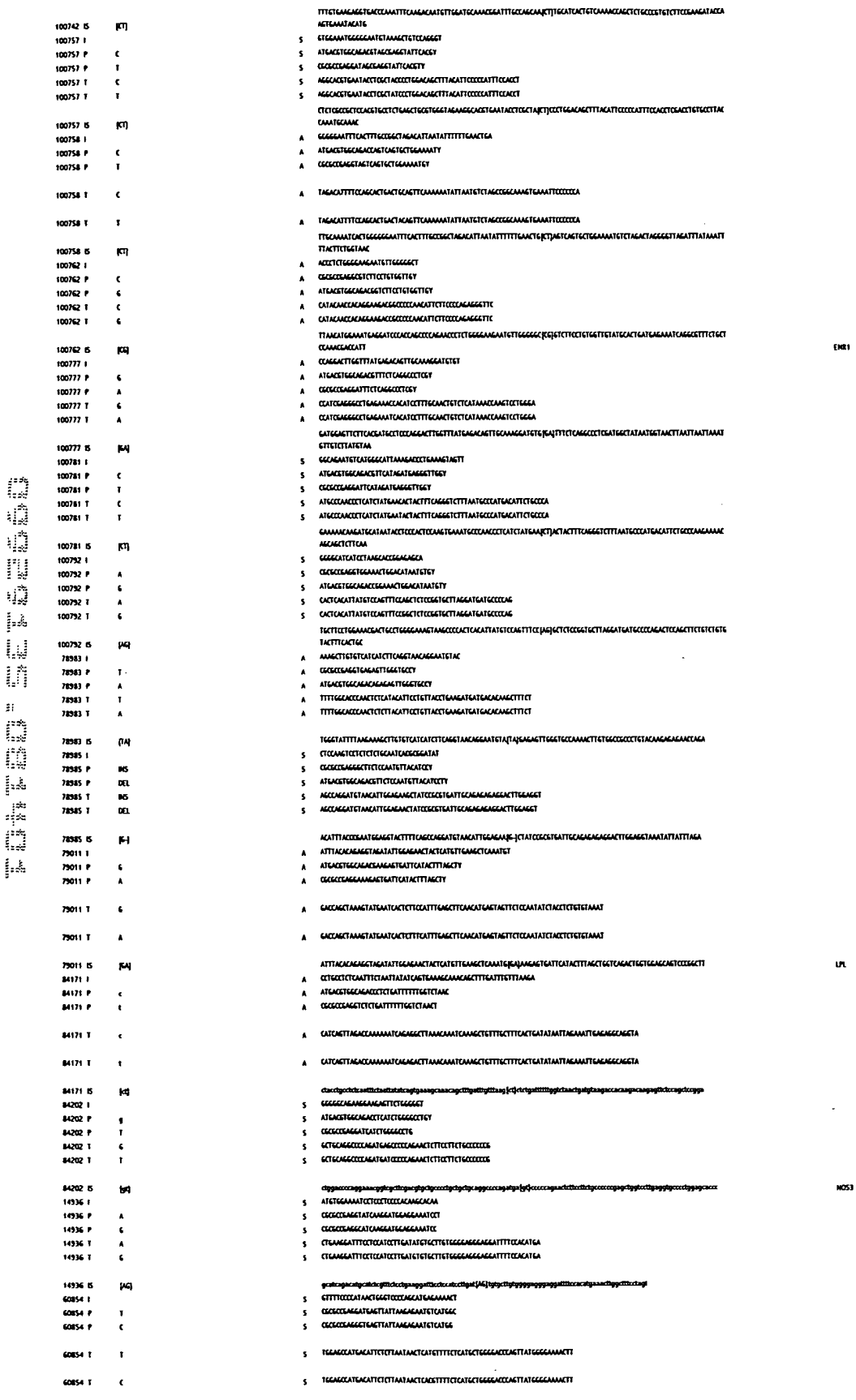


FIGURE 129C

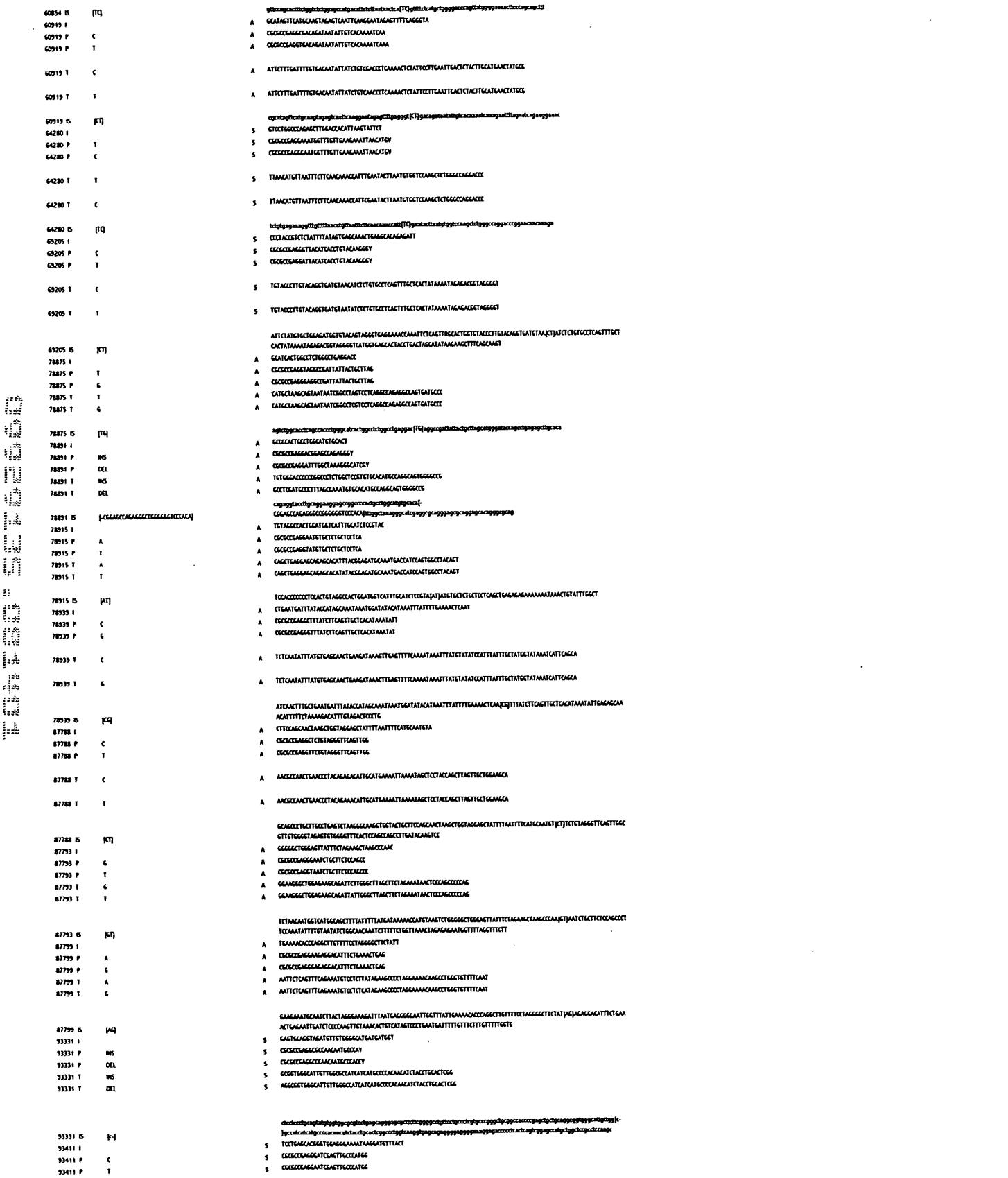
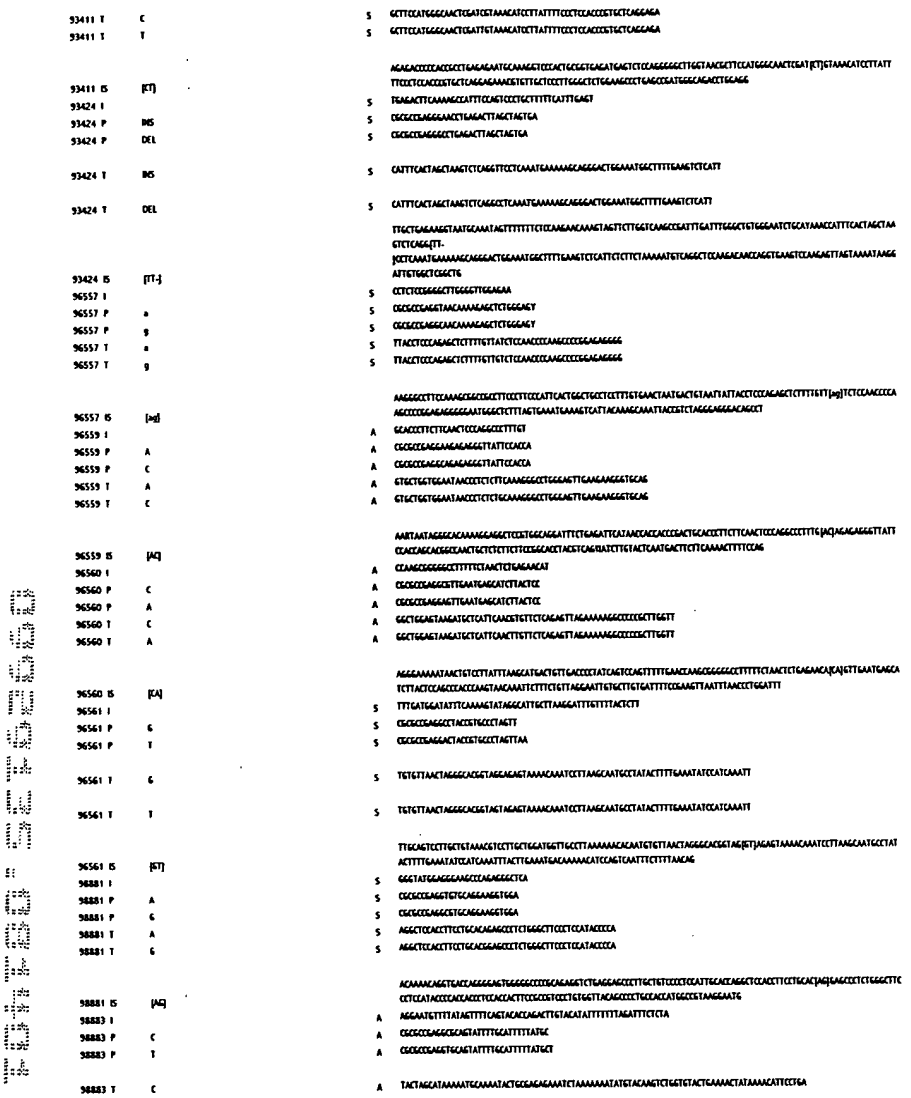
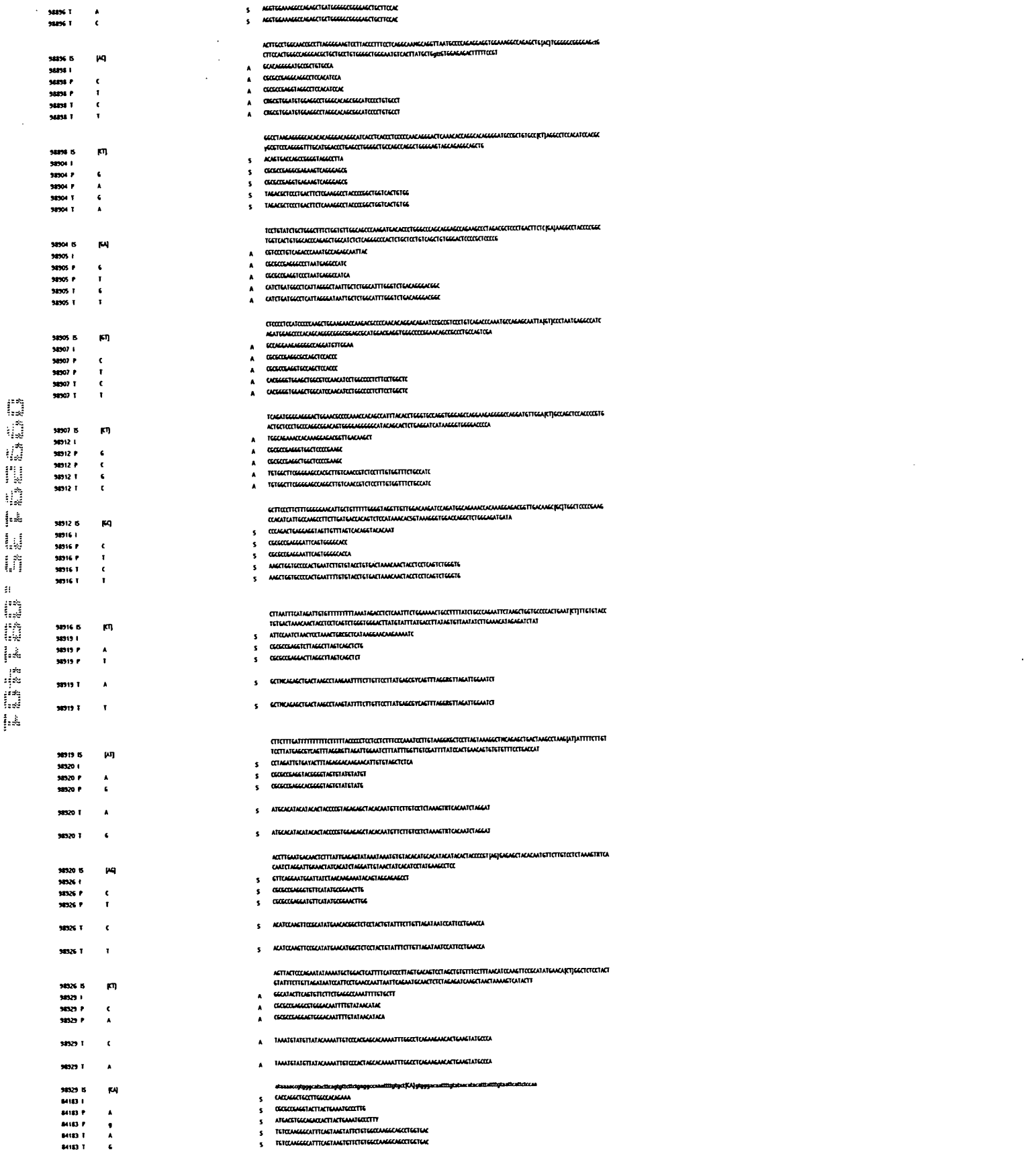
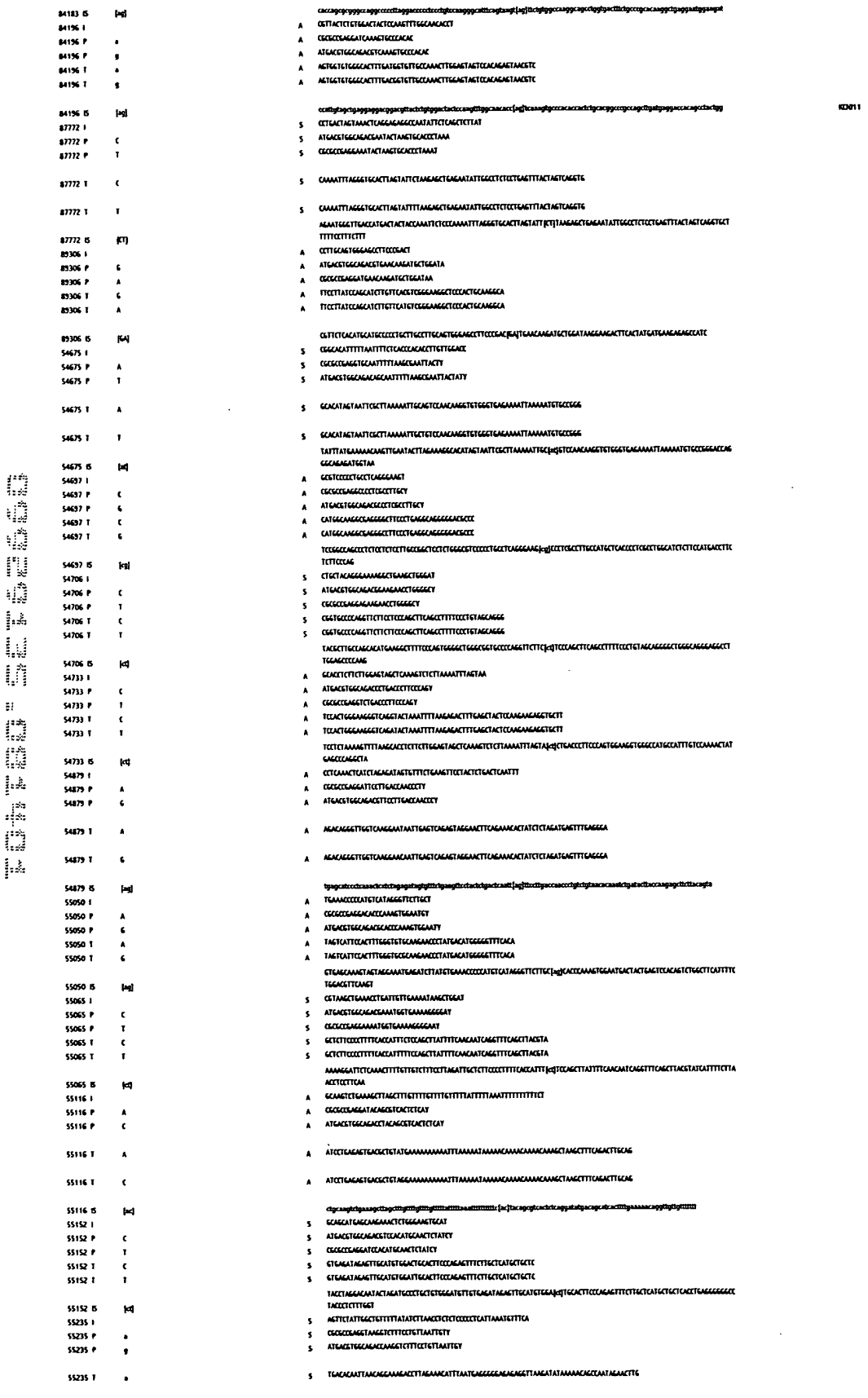
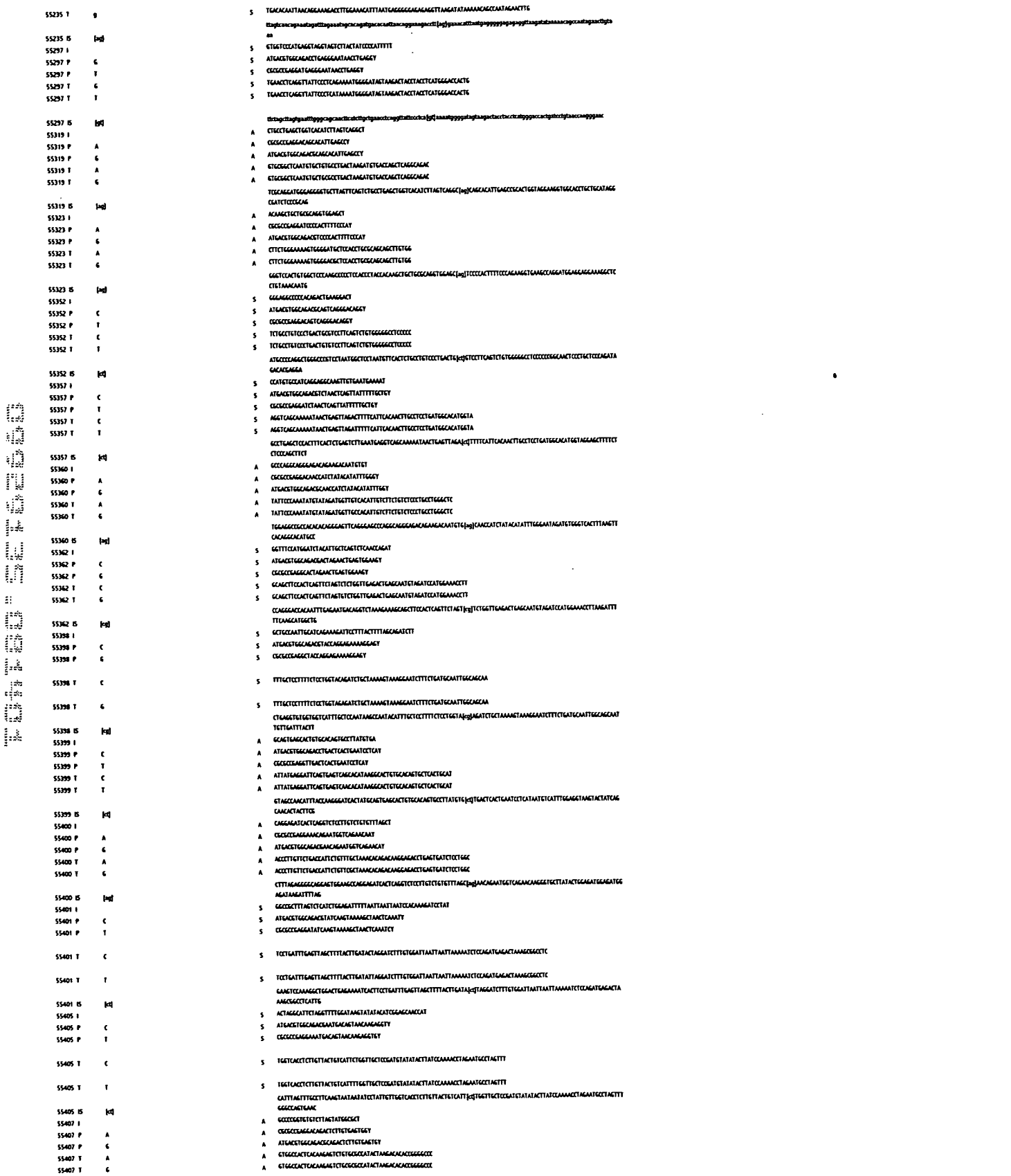


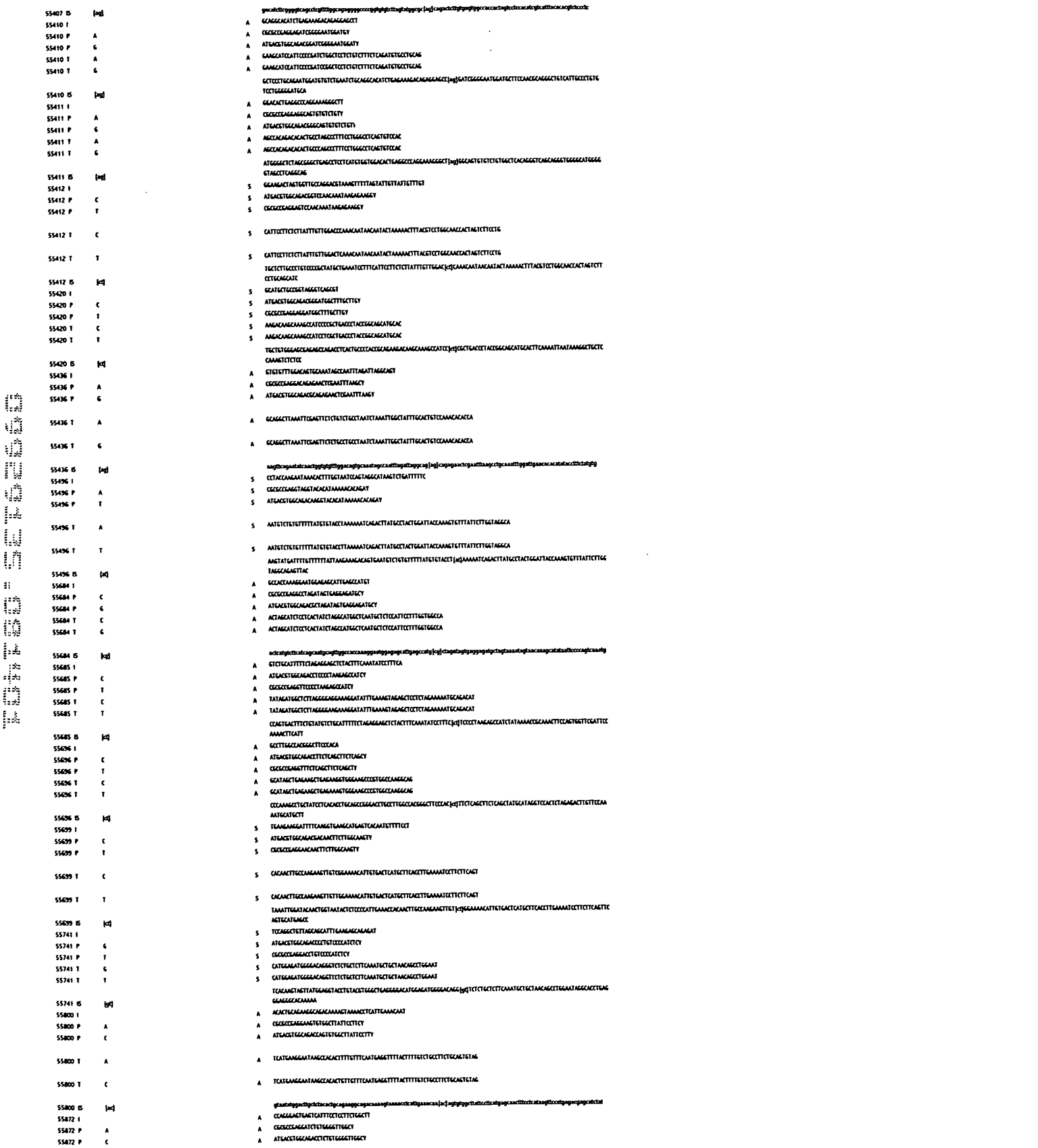
FIGURE 129C











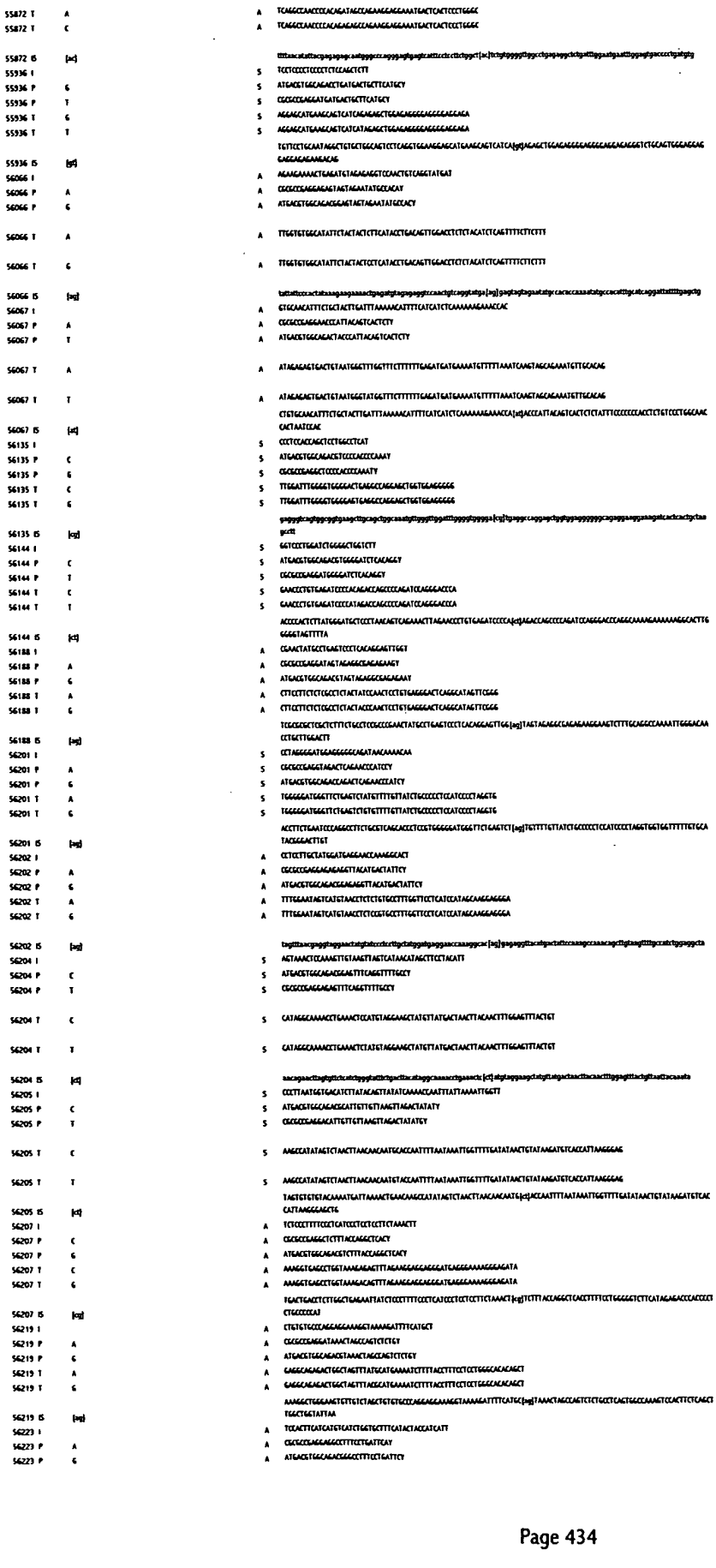
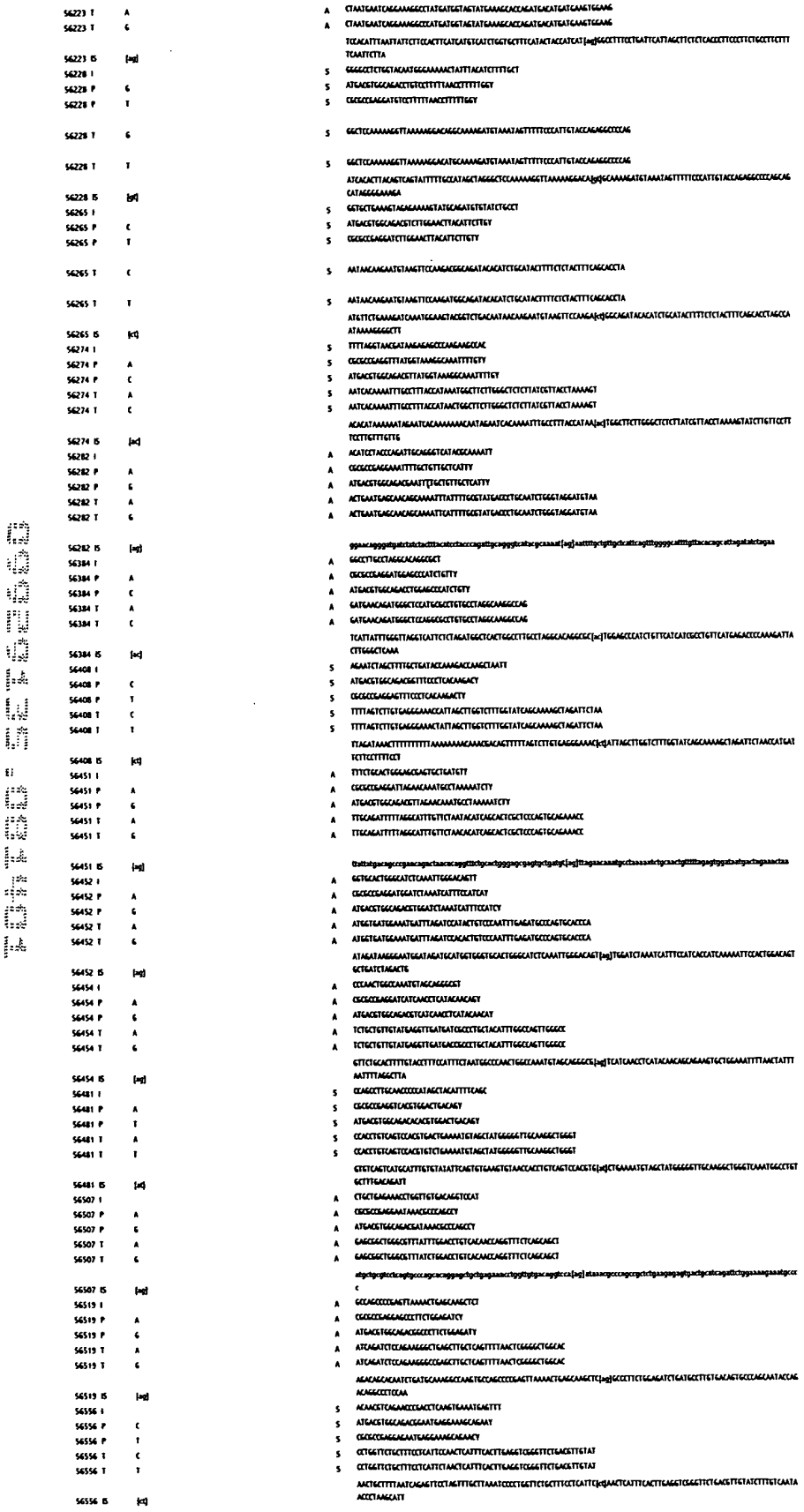


FIGURE 129C



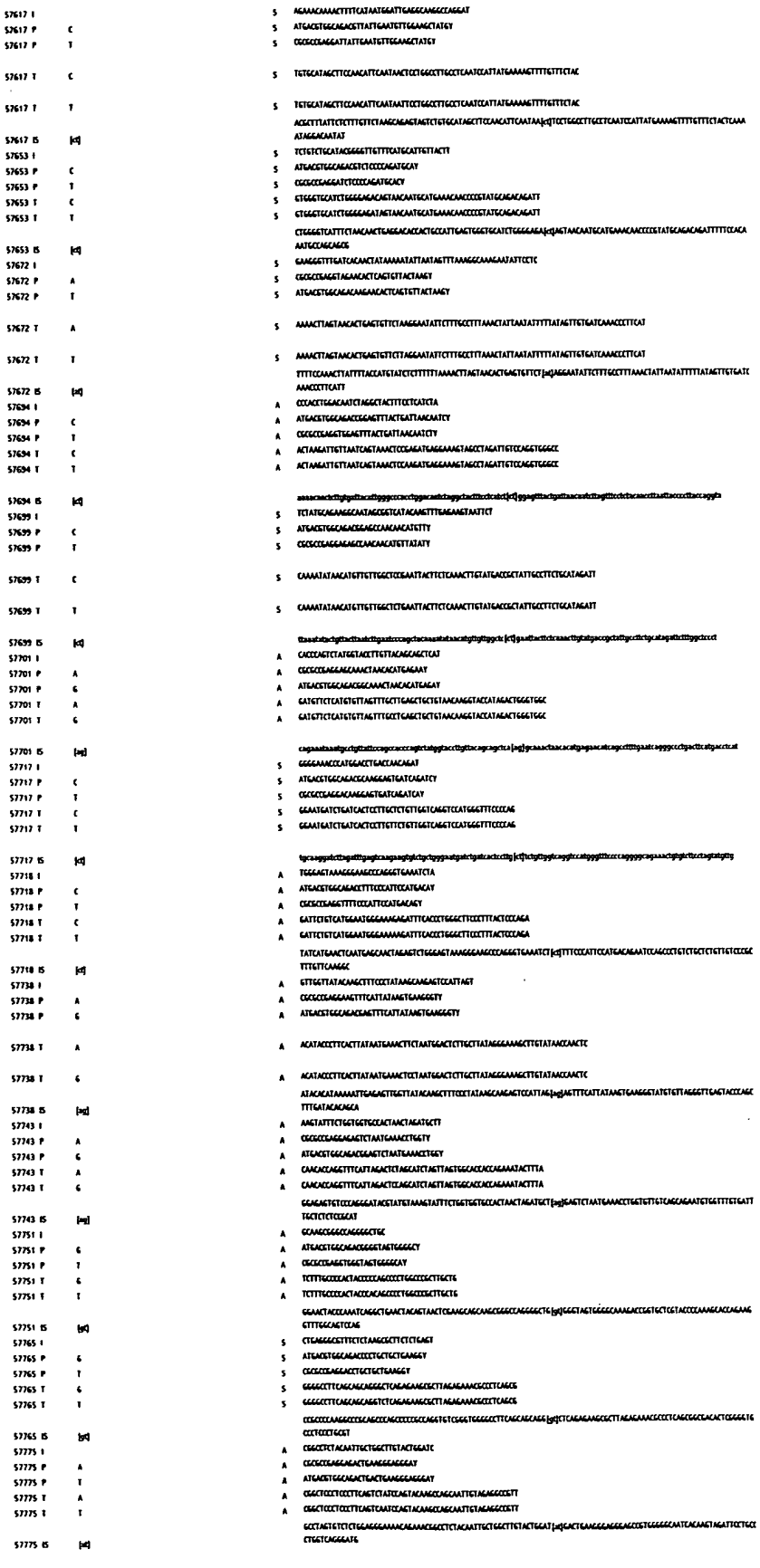


FIGURE 129C

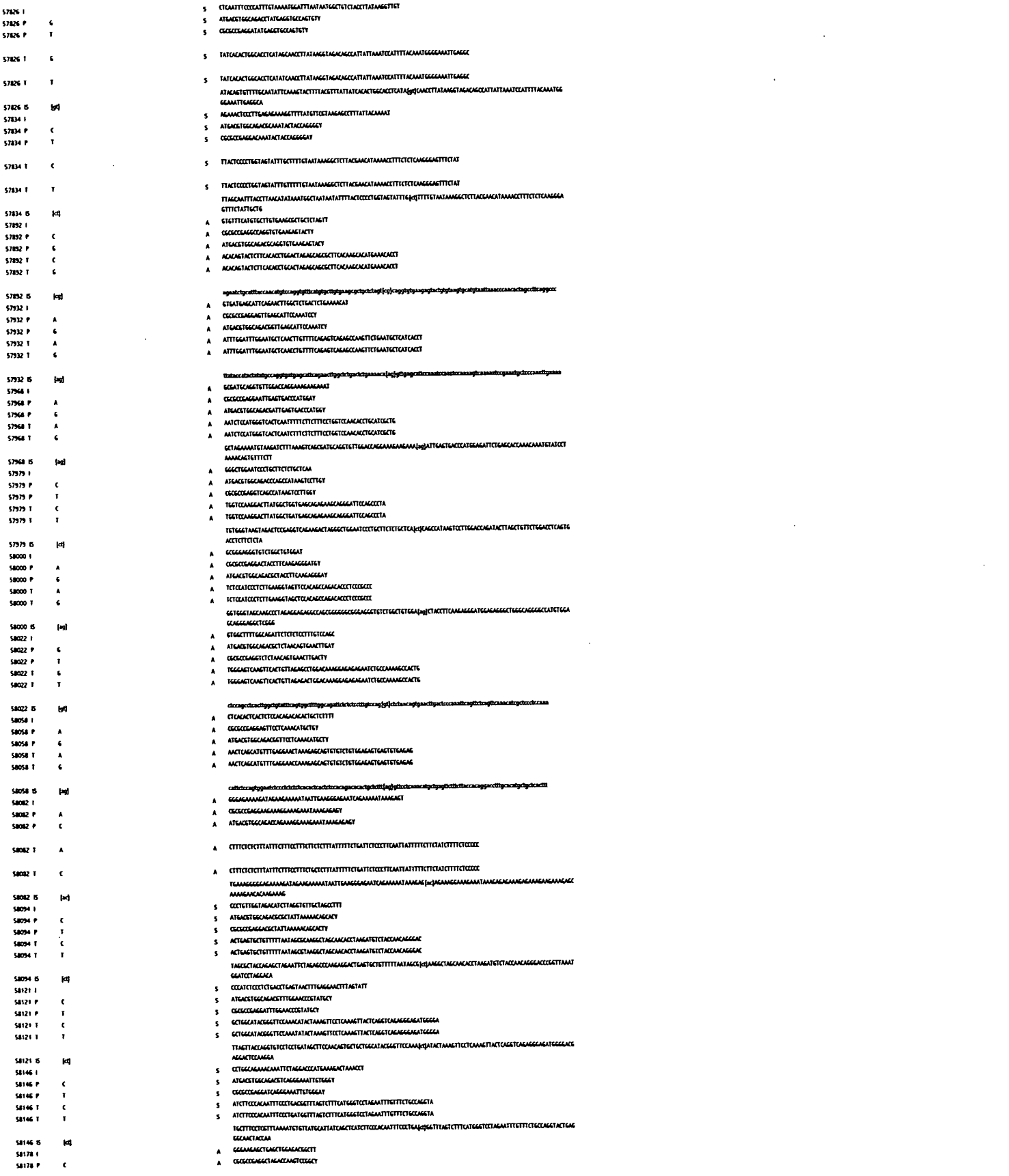
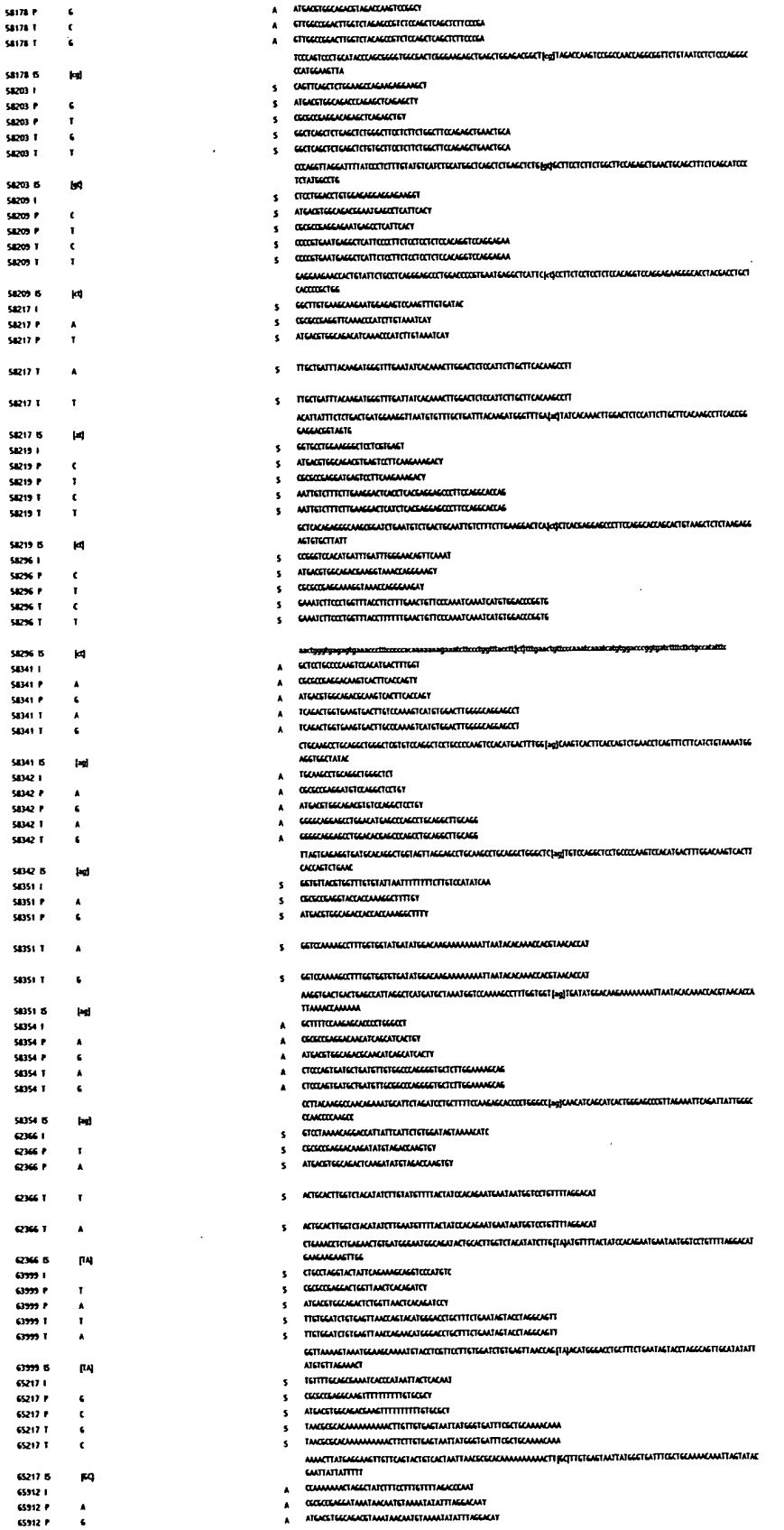


FIGURE 129C





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65912 T	G	A	TAAATTGTCCTAAATATATTTTACATTGTTATTTACTTGGGTCTAAAACAAAGGAAAGATAGCCTAGTTTTTTTGGTA	
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66104 T	T	S	CAGCACCTGTCCTCCCCTCTCCACTGTGAGTTGCCAAGGCAGGCAT	
66104 IS	[CT]		ACTTTGCAGTTGCAGGGCGGCATCCACTCTGGTCTTCCTGGCCCAGCACCTGTCCTCCCC[CT]CTCCACTGTGAGTTGCCAAGGCAGGCATTTGTGGCCCCCTGGGATGCCTT GGGGTGCCTCA	
69058 I		S	GGGAGTACAATTACACAATCAATTTAGTATTTTCTTTTATATCACCTGAGCTTAAT	
69058 P	T	S	CGCGCCCAGGAAGGATCAATTTAGTATTTGAAAAAGY	
69058 P	C	S	ATGACGTGGCAGACAGGATCAATTTAGTATTTGAAAAAGY	
69058 T	T	S	TTAGCTTTTTCAAATACTAAATTGATCCTTTTAAGGTCAGGTGATATAAAAGAAAATACTAAATTGATTGTGTAATTGTACTCCCCC	
69058 T	C	S	TTAGCTTTTTCAAATACTAAATTGATCCTCTTAAGGTCAGGTGATATAAAAGAAAATACTAAATTGATTGTGTAATTGTACTCCCCC	
69058 IS	[TC]		TTTCAAACTTCAGTGTTCAAAACTTTGTACTTTAGCTTTTTCAAATACTAAATTGATCCT[TC]TTAAGGTCAGGTGATATAAAGAAAATACTAAATTGATTGTGTAAT TGTACTCCCCCAAC	
76039 I		A	CATCGGCTGAGGAGCATTGGTAAGGGTGAATGA	
76039 P	C	A	ATGACGTGGCAGACGGGAGGTGGGCCY	
76039 P	T	A	CGCGCCGAGGTGGAGGTGGGCCY	
76039 T	C	A	CTGGGGCCCACTTCTGCATTCACCCTTACCAATGCTCCTCAGCCGATGGA	
76039 T	T	A	CTGGGGCCCACTTCTCACATTCACCCTTACCAATGCTCCTCAGCCGATGGA	
76039 IS	[CT]		CCACTTCCCTCGCACGCTCCGCTGGTTCCATCGCCTGAGGAGCATTGGTAAGGGTGAATG[CT]GGAGGTGGGCCCCAGCCCACCTGGGGTATGGGGTACAGGGCGGTGGG CTGGGGTAGCACA	
76199 I		S	TGAAGCAAGGTGCTGTTGAACATTTACAGTATGTATCAGATTGAA	
76199 P	A	S	CGCGCCGAGGTTCTATCTCTCTCATACTCAGGY	
76199 P	G	S	ATGACGTGGCAGACCTCTATCTCTCTCATACTCAGGY	
76199 T	A	S	CAATCCTGAGTATGAGAGAGATAGAATCAATCTGATACATACTGTAAATGTTCAACAGCACCTTGGCTTCATT	
76199 T	G	S	CAATCCTGAGTATGAGAGAGATAGAGTCAATCTGATACATACTGTAAATGTTCAACAGCACCTTGGCTTCATT	
76199 IS	[AG]		CTTTCAAGCTGAGGAATGTCTCTTTTTAAAATAAATCAATCCTGAGTATGAGAGAGATAGA[AG]TCAATCTGATACATACTGTAAATGTTCAACAGCACCTTGGCTTCAT TTCTCTGTCCTAGA	
76752 I		A	CTCGTGGAGACTGAATGGGTGGGAGGATAAGACA	
76752 P	C	A	ATGACGTGGCAGACGCCTTTCCTACGCY	
76752 P	T	A	CGCGCCGAGGTGCCTTTCCTACGCAY	
76752 T	C	A	CTTTTGCGTAGGAAAGGCGGTCTTATCCTCCCACCCATTCAGTCTCCCACGAGAG	
76752 T	T	A	CTTTTGCGTAGGAAAGGCAGTCTTATCCTCCCACCCATTCAGTCTCCCACGAGAG	
76752 IS	[CT]		AAAGCTCTGCGGGCTGTATCTCTTTCTCTGGTGCAGACTGAATGGGTGGGAGGATAAGAC[CT]GCCTTTCCTACGCAAAAGAGCAATCTCCTCCTTTAAGGCCGAAATCC TTTCCGCCTGGAG	FU11142
77000 I		S	GCTGCCAGTGAAAAGAATAAGGAGGAGTTAAAGAGCCTA	
77000 P	A	S	CGCGCCGAGGTGGGCCTGCAGCY	
77000 P	G	S	ATGACGTGGCAGACTGGGCCTGCAGCY	
77000 T	A	S	GGGCGCTGCAGGCCCAGGCTCTTTAACTCCTCCTTATTCTTTTCACTGGCAGCAT	
77000 T	G	S	GGGCGCTGCAGGCCCAGGCTCTTTAACTCCTCCTTATTCTTTTCACTGGCAGCAT	
77000 IS	[AG]		GGCATCTTCTGGATCGATGGGATCCCCATAGGGTGAGTCAATAATGGGCGCTGCAGGCCC[AG]AGGCTCTTTAACTCCTCCTTATTCTTTTCACTGGCAGCATTGTCCACC CGAAGCGCTCTC	KIAA0589
77028 I		S	CCATTTCAGAAGGGACATTATCTTAATGGTAAAGAAAAGGGCAGTTCC	
77028 P	A	S	CGCGCCGAGGTGGCATGTGGTATCTGGY	
77028 P	C	S	ATGACGTGGCAGACGGGCATGTGGTATCTGY	
77028 T	A	S	CACTCCAGATACCACATGCCAGAACTGCCCTTTTCTTTACCATTAAGATAATGTCCCTTCTGAAATGGCA	
77028 T	C	S	CACTCCAGATACCACATGCCCGAACTGCCCTTTTCTTTACCATTAAGATAATGTCCCTTCTGAAATGGCA	
77028 IS	[AC]		TCTGAGAGCAGCAAATCTTCAGTTTTGTTTTTCTTGCTGTCACTCCAGATACCACATGCC[AC]GAACTGCCCTTTTCTTTACCATTAAGATAATGTCCCTTCTGAAATGGC AAGTAGGTACTT	
77076 I		S	GAGAAAATGTGTAATCATGAGGATGACAATGCTATCATAGGTCCCAAT	
77076 P	C	S	ATGACGTGGCAGACGTAACCACAGGAAGAATGACY	
77076 P	T	S	CGCGCCGAGGATAACCACAGGAAGAATGACY	
77076 T	C	S	GGGAGTCATTCTTCCTGTGGTTACTTGGGAACTATGATAGCATTGTCATCCTCATGATTACACATTTTCTCCA	
77076 T	T	S	GGGAGTCATTCTTCCTGTGGTTATTTGGGAACTATGATAGCATTGTCATCCTCATGATTACACATTTTCTCCA	
77076 IS	[CT]		AAAATAATGTCTGATGCTACACCTGTTCCACTGGTGGGAGTCATTCTTCCTGTGGTTA[CT]TTGGGAACTATGATAGCATTGTCATCCTCATGATTACACATTTTCTCC AGCGGACACCAC	
77118 I		S	AGTTATTGCCAAAATCTTTAATCCTAAGCTCTTGCTTTTGTTGTATGCAAGATAAT	
77118 P	C	S	ATGACGTGGCAGACGGTTGCCTTTCATTTATGTCY	
77118 P	T	S	CGCGCCGAGGAGTTGCCTTTCATTTATGTCAY	
77118 T	C	S	GATGTGACATAAATGAAAGGCAACTTATCTTGCATACAACAAAGCAAGAGCTTAGGAATAAAAGATTTTGGCAATAACTTC	
77118 T	T	S	GATGTGACATAAATGAAAGGCAACTTTATCTTGCATACAACAAAGCAAGAGCTTAGGAATAAAAGATTTTGGCAATAACTTC	
77118 IS	[CT]		TGTCACTGCTAACCTTTTGTGTGTAGCTGTTAGGAGATGTGACATAAATGAAAGGCAAC[CT]TTATCTTGCATACAACAAAGCAAGAGCTTAGGAATAAAAGATTTT GGCAATAACTTCCA	
77307 I		S	CCCCTTAAGGAGGGGCCCAAGGTC	
77307 P	C	S	ATGACGTGGCAGACGGCCAGGACCAAACY	
77307 P	A	S	CGCGCCGAGGTGCCAGGACCAAACTY	
77307 T	C	S	TCTCAGTTTTGGTCCTGGCCAACCTCTGGCCCCCTCCTTAAGGGGAA	
77307 T	A	S	TCTCAGTTTTGGTCCTGGCAACCTCTGGCCCCCTCCTTAAGGGGAA	
77307 IS	[CA]		ATTGATTAGCTCAGTTGGAAAAAATAAGAGCTGTGCTTACTTCTCAGTTTTGGTCCTGGC[CA]ACCTCTGGCCCCCTCCTTAAGGGGAAAATGCAGATGTTGACTGCAGG AAATCATTTTTC	
77333 I		S	AGGCGGGCGATGGGGCAT	
77333 P	G	S	CGCGCCGAGGCGGGGCCTGAAGCY	
77333 P	C	S	ATGACGTGGCAGACGGGGGCCTGAAGCY	
77333 T	G	S	CGCGCCTTCAGGCCCCGTGCCCCACGCCCGCCTTC	
77333 T	C	S	CGCGCCTTCAGGCCCCTGCCCCACGCCCGCCTTC	
77333 IS	[GC]		GCGGCTTCGGCCAAGGCCTCAGCTGCCGCCGCCAGCAGCGGTACGCCGCGCTTCAGGCCCC[GC]TGCCCCACGCCCGCCTTCCCCGCTGTCCTCTAAGCCGGGAGCCAGGGA AGCAGGGTTCC	
77475 I		A	GGCATTGTTTAGCTTTTGCTCTTCACAGTTTGCAGACATAATTTGATATAT	
77475 P	G	A	ATGACGTGGCAGACGTCTAGTCATTGTTTTATTTGGGY	
77475 P	A	A	CGCGCCGAGGATCTAGTCATTGTTTTATTTGGGY	
77475 T	G	A	TTAGCCCAAATAAAACAATGACTAGACTATATCAAATTATGTCTGCAAACTGTGAAGAGCAAAAGCTAAACAATGCCAC	

FIGURE 129C

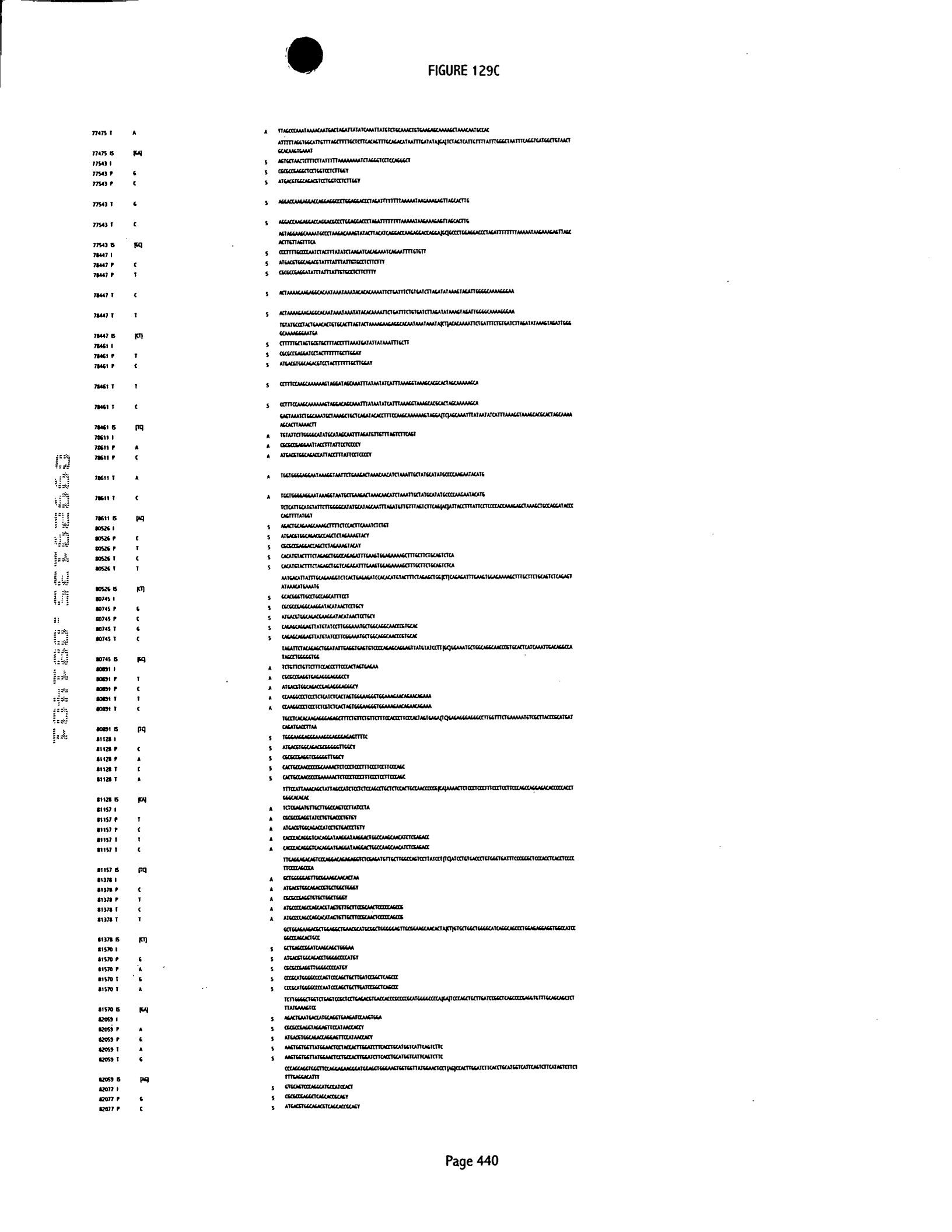
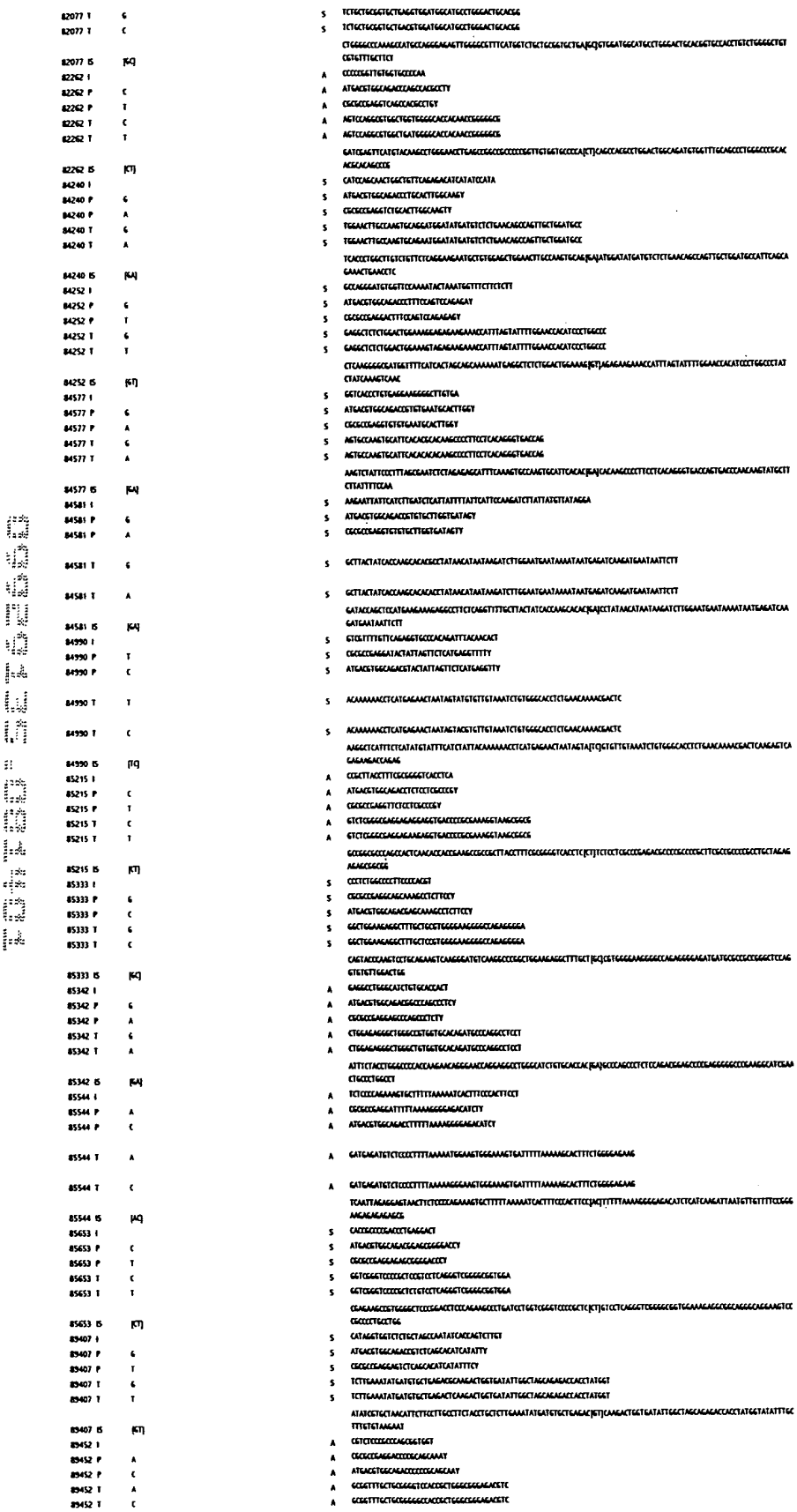
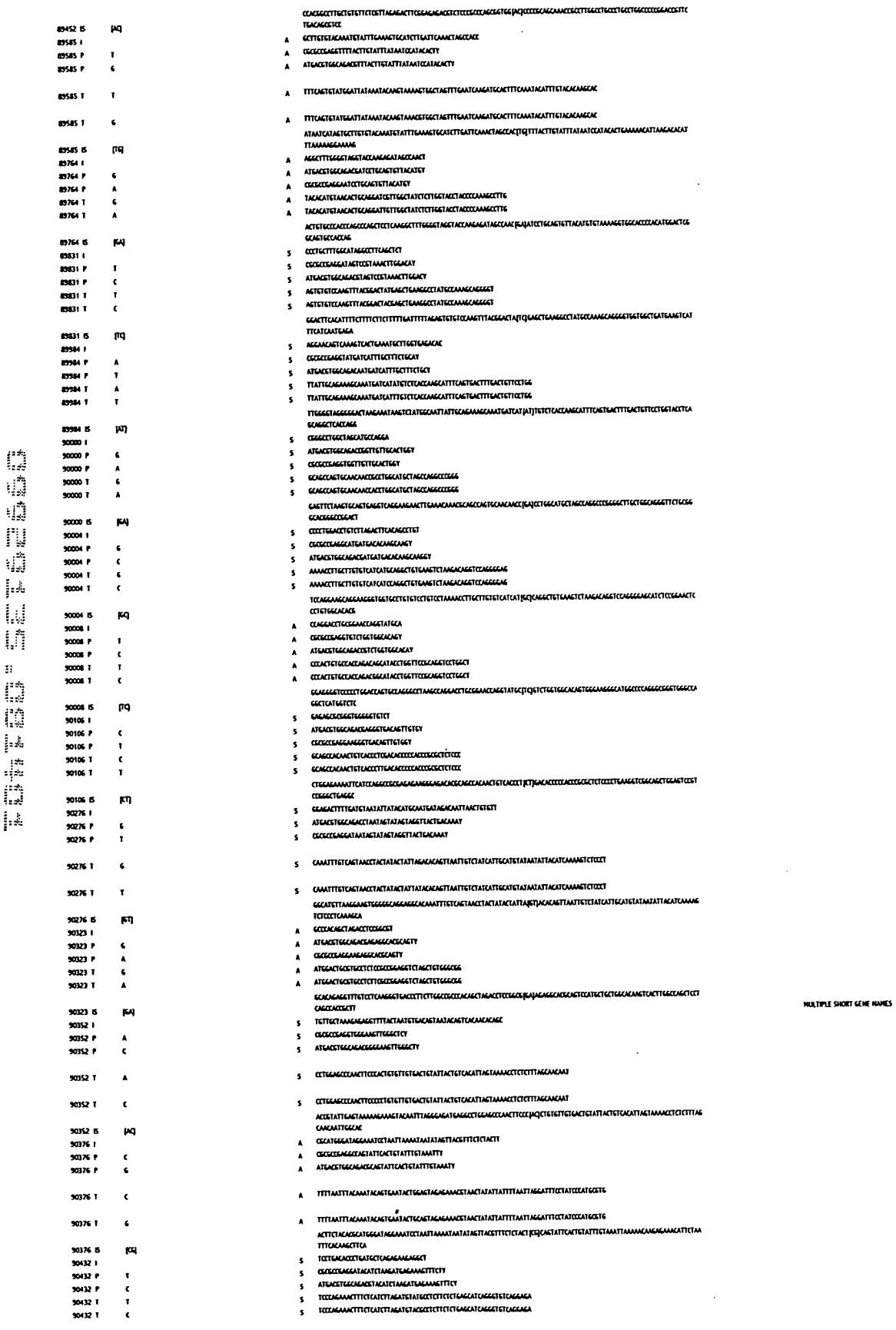


FIGURE 129C





Replacement Sheet

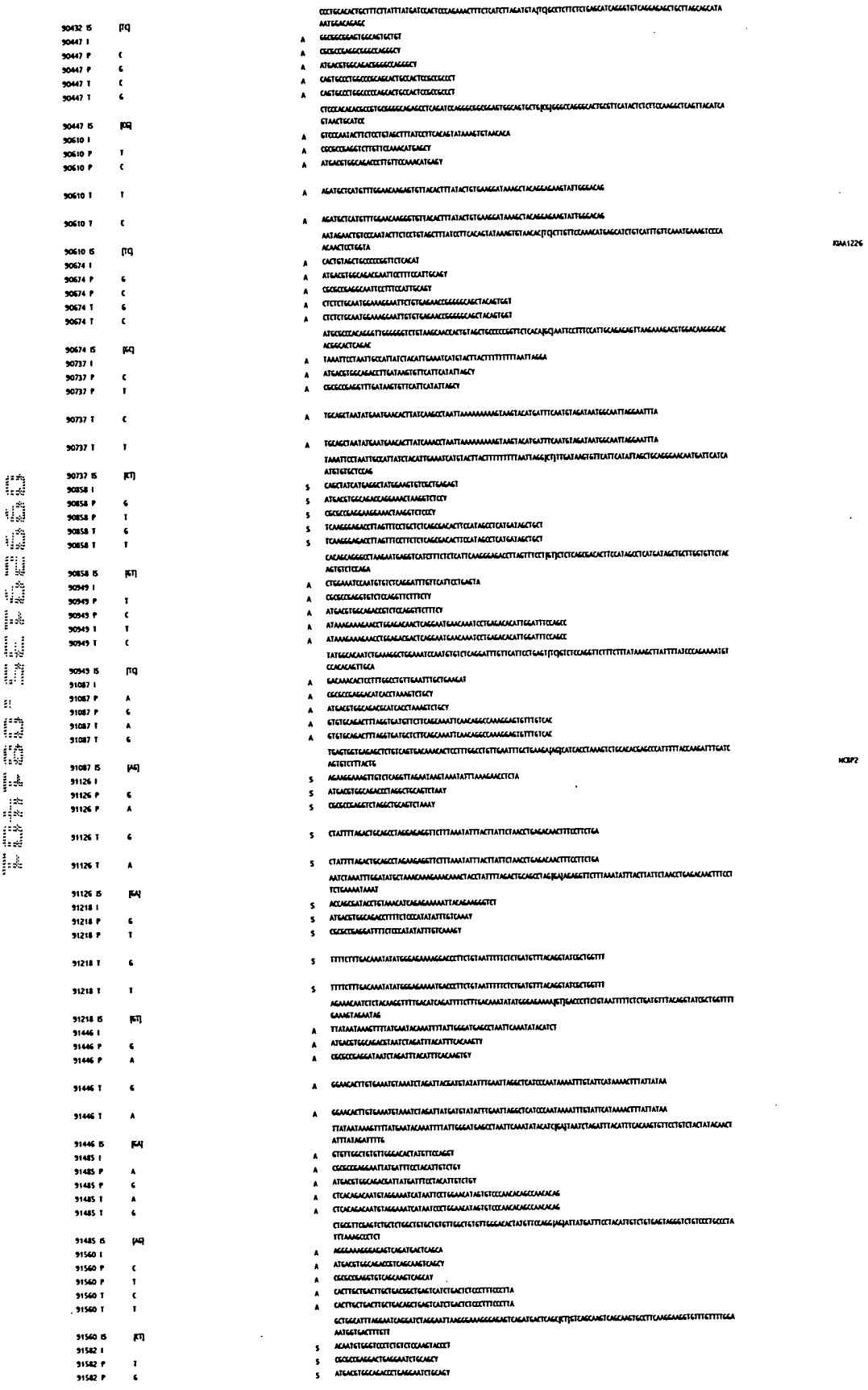
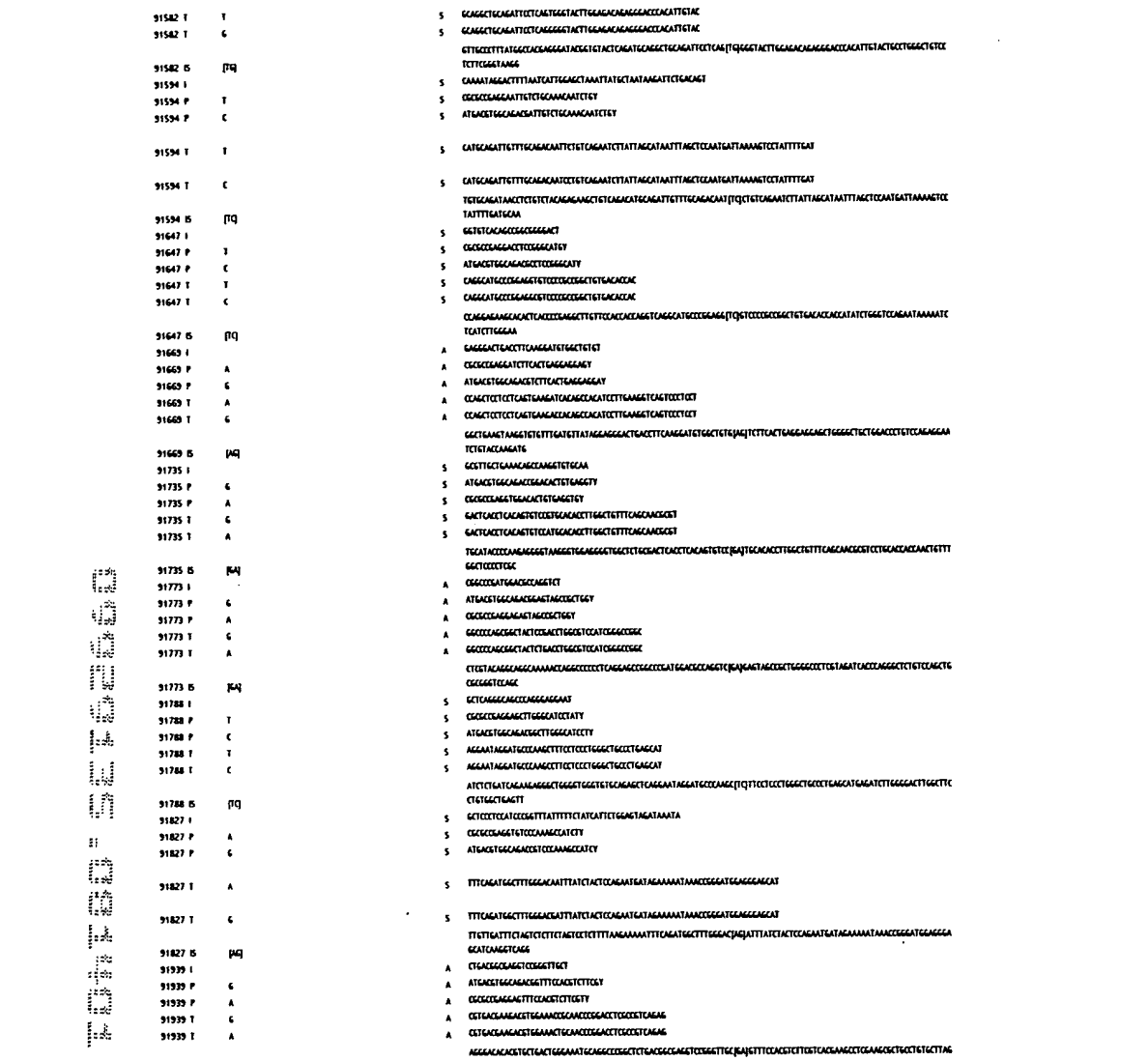


FIGURE 129C

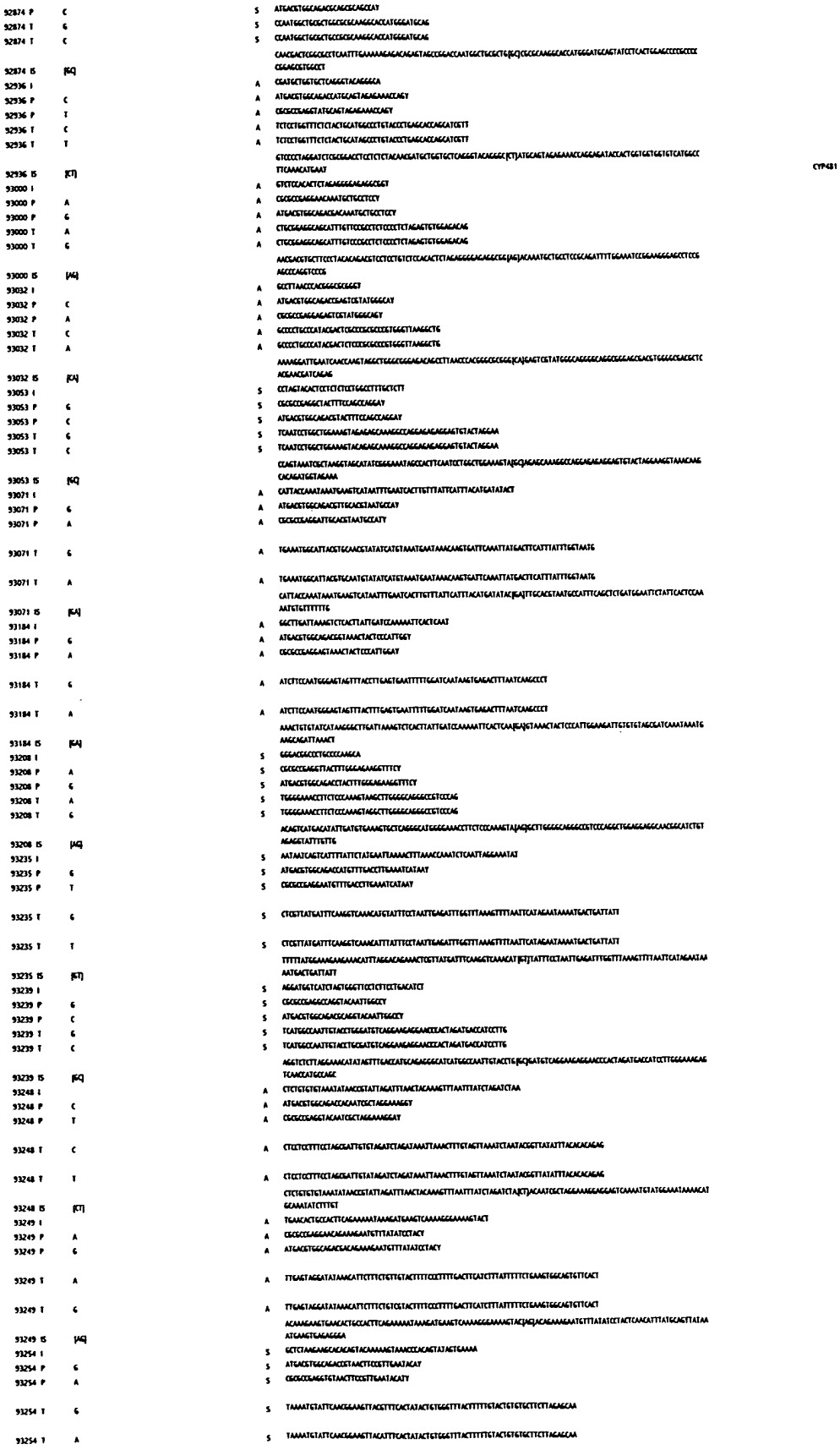


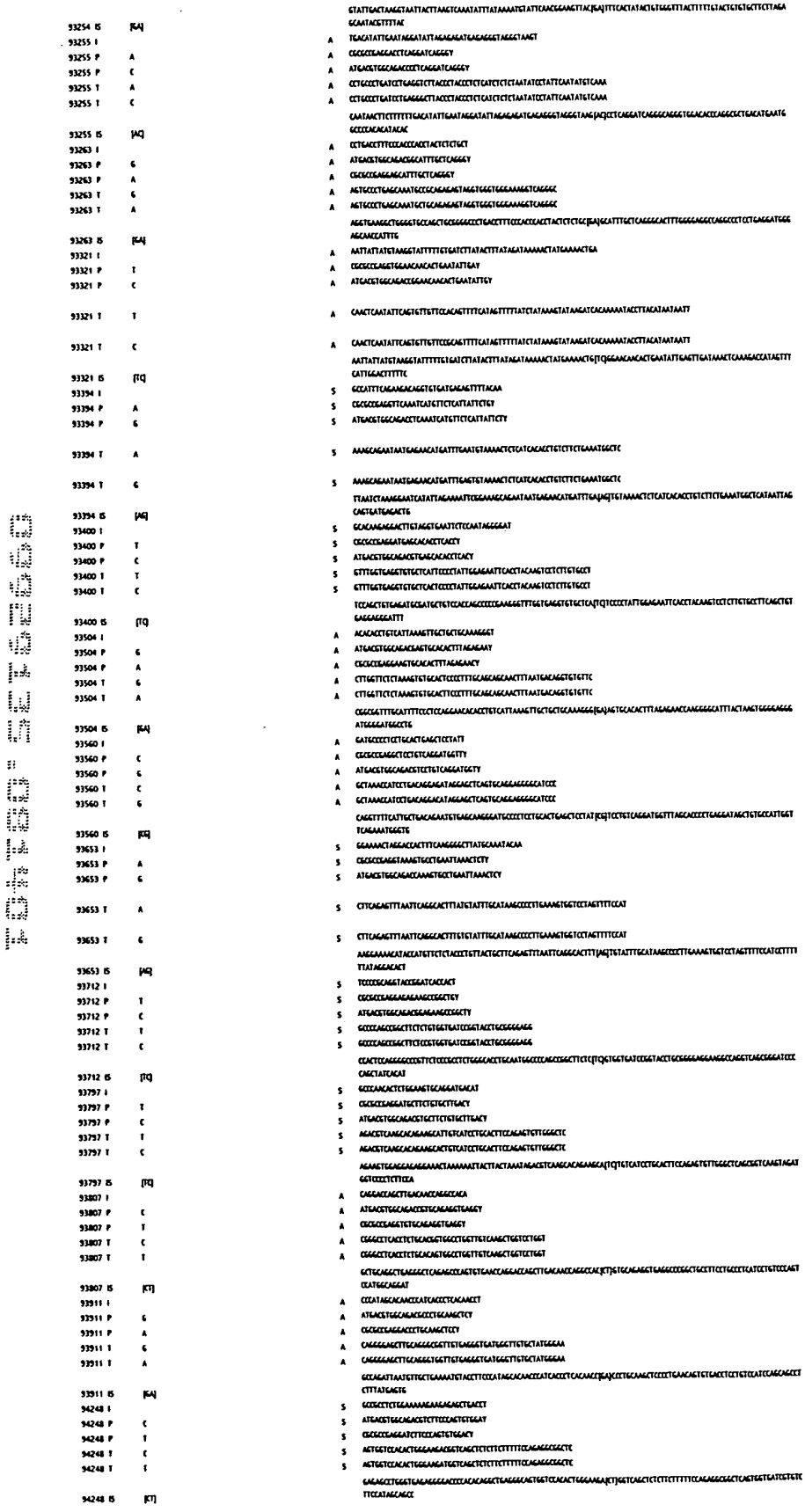


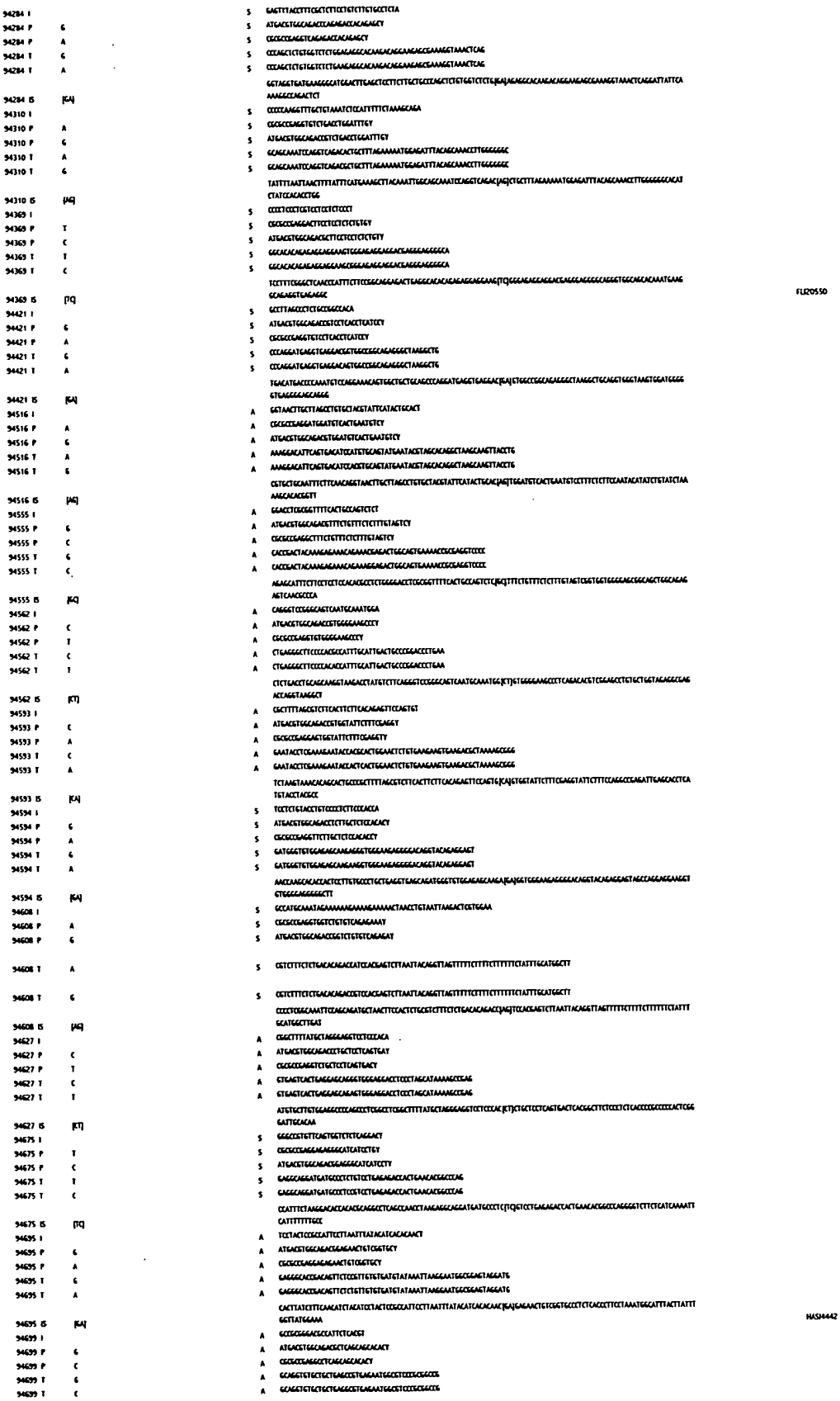
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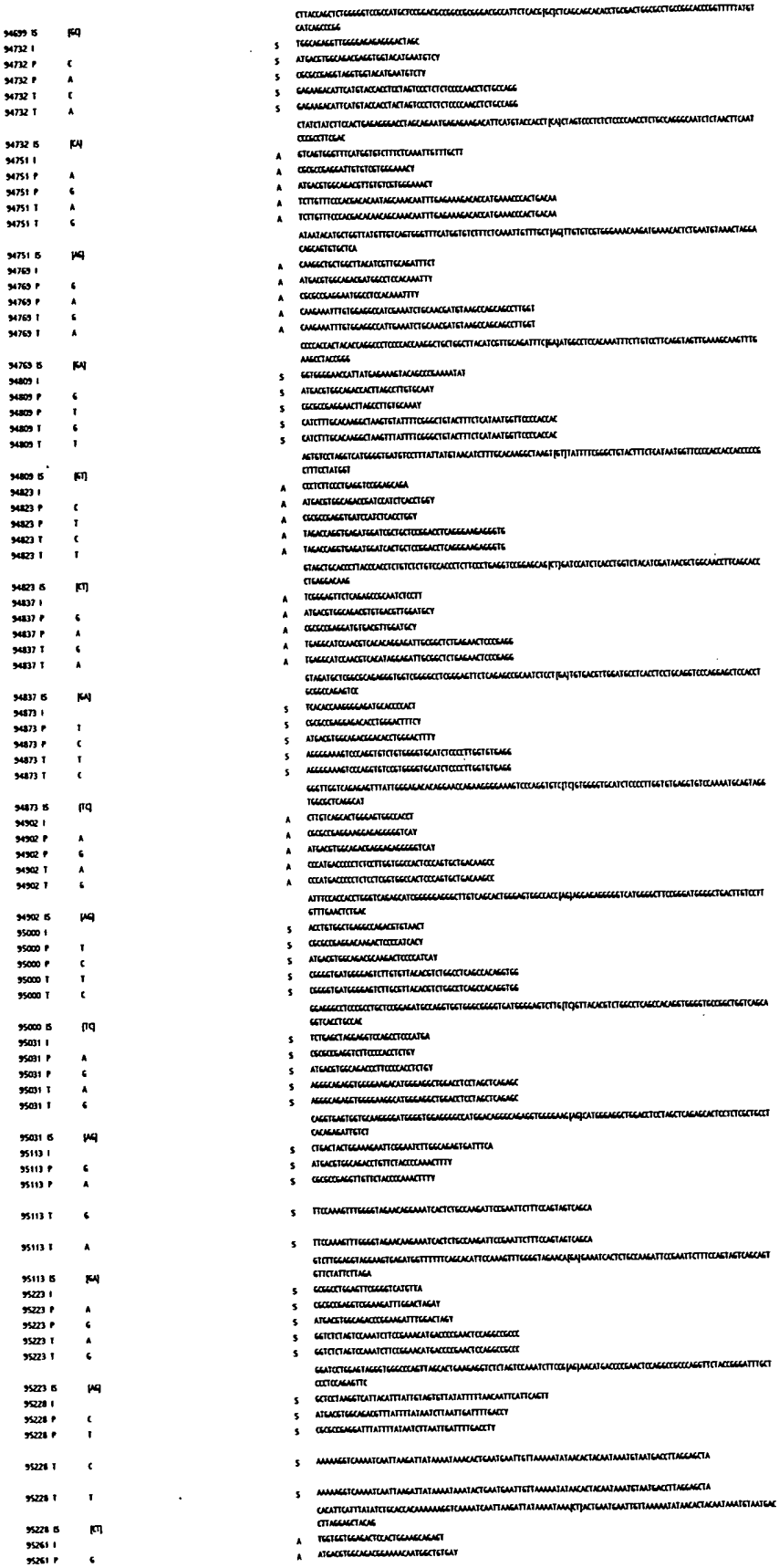
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92087 IS	[CG]		GGGGCTACACAGA
92168 I		A	CAGATTTCTTCCAAACCTTCTTGTTGTCTGTTTGTTCCCCA
92168 P	C	A	ATGACGTGGCAGACGCTCACTGTTTATCTTCCAY
92168 P	T	A	CGCGCCGAGGTGTCACTGTTTATCTTCCACY
92168 T	C	A	ACAGCTGGAAGATAAACAGTGACAGGGGGAACAAACAGACAACAAGAAGGTTTGGAAGAAATCTGGT
92168 T	T	A	ACAGCTGGAAGATAAACAGTGACAGGGGAACAAACAGACAACAAGAAGGTTTGGAAGAAATCTGGT
			TAAGGTTCAGAGTCTCAAACAGATTTCTTCCAAACCTTCTTGTTGTCTGTTTGTTCCCC[CT]GTCACTGTTTATCTTCCACCTCTGAAGCCATAATTTGCACACATGTGA
92168 IS	[CT]		TCTGGAGGAGGG
92182 I		A	TGGTTAAGATCCTTCCATCATAATGCGGACCACACCT
92182 P	A	A	CGCGCCGAGGAGATGCATGGGTTCCAY
92182 P	G	A	ATGACGTGGCAGACGGATGCATGGGTTCCY
92182 T	A	A	TTGGTGGAACCCATGCATCTGGTGTGGTCCGCATTATGATGGAAGGATCTTAACCAGT
92182 T	G	A	TTGGTGGAACCCATGCATCCGGTGTGGTCCGCATTATGATGGAAGGATCTTAACCAGT
			CAGACAATGTACACTCCACTCGACTGGTTAAGATCCTTCCATCATAATGCGGACCACACC[AG]GATGCATGGGTTCCACCAAACAGCTTCACACAGAGTGCTCCAAAGTA
92182 IS	[AG]		AAAGCCCATAAAC
92214 I		S	GTGTGTAGTTCAGGATAGGAACTAGGAGACACACTAAGCGT
92214 P	T	S	CGCGCCGAGGACCGAGGTGTGTCTGY
92214 P	C	S	ATGACGTGGCAGACGCCGAGGTGTGTCTY
92214 T	T	S	AATACAGACACACCTCGGCTGGCTTAGTGTGTCTCTCTAGTTCCTATCCTGAACTACACACTG
92214 T	C	S	AATACAGACACACCTCGGCCGCTTAGTGTGTCTCTAGTTCCTATCCTGAACTACACACTG
			AGCCCAAACTTGTCAGATGGAACGGTCTCTTGTCAATGAATCACAATACAGACACACCTCGG[TC]CGCTTAGTGTGTCTCTAGTTCCTATCCTGAACTACACACTGAAGTTC
92214 IS	[TC]		CACTGTCTGTCT
92271 I		A	AGAGCTCAGTCCAGAGGCAGGTCAGGAAATGC
92271 P	T	A	CGCGCCGAGGTGCACCTATCTGCAGTY
92271 P	G	A	ATGACGTGGCAGACGGCACCTATCTGCAGTY
92271 T	T	A	TGAACTGCAGATAGGTGCACATTTCCTGACCTGCCTCTGGACTGAGCTCTGA
92271 T	G	A	TGAACTGCAGATAGGTGCCCATTTCCTGACCTGCCTCTGGACTGAGCTCTGA
			CGCTTAGAACACGGACTTGTACGTCTATCAGAGCTCAGTCCAGAGGCAGGTCAGGAAATG[TG]GCACCTATCTGCAGTTCCAGTGAAACAAATCATAAATTAAGACCAG
92271 IS	[TG]		AATAGTGCACTTTG
92294 I		S	GGCTAGAGCCACAGGAACTGCCGTCT
92294 P	C	S	ATGACGTGGCAGACGGCAGGTCAGTAGAGY
92294 P	T	S	CGCGCCGAGGAGACGGTCAGTAGAGY
92294 T	C	S	GCTCCTCTACTGACGTCCCGACGGCAGGTTCCTGTGGCTCTAGCCTC
92294 T	T	S	GCTCCTCTACTGACGTCTCTGACGGCAGGTTCCTGTGGCTCTAGCCTC
			GCGCAGCAGAGCTGCGGCCTTGGGGCCCGGGCAGCCTCCCTAGCTCCTCTACTGACCGTCC[CT]GACGGCAGGTTCCTGTGGCTCTAGCCTCACCCCCCTACAGACCCCAGGA
92294 IS	[CT]		ACTAGAACCC
92366 I		S	CCTCAGGTGGGGTGGGAGGTGGGA
92366 P	G	S	ATGACGTGGCAGACCGTGGGGAAGAGGAAT
92366 P	A	S	CGCGCCGAGGTGTGGGGAAGAGGAAGY
92366 T	G	S	GCACCTTGCTCTTCCCCACACCCACCTCCCACCCCAGCTGAGGCA
92366 T	A	S	GCACCTTGCTCTTCCCCACACCCACCTCCCACCCCAGCTGAGGCA
			TGGGGGAAGGGGCCCCCCAGCAGCCCCAGTTTCCTGACTGAGCACCTTCCTCTCCCCAC[GA]CCCACCTCCCACCCCACCTGAGGCAACAACACCTGTCCCTGTCCAGACC
92366 IS	[GA]		TGGGCTCAAGC
92431 I		A	TTTCCTGGGATGTGAAGATAAATTAATGAAGAATTTGTTAATTAGTTCTTAATCATTTATT
92431 P	A	A	CGCGCCGAGGACTTCTAATTTATAAAGGTATTTGTGGY
92431 P	G	A	ATGACGTGGCAGACGCTTCTAATTTATAAAGGTATTTGTGGY
92431 T	A	A	GTTTCCACAAATACCTTTATAAATTAGAAGTATAAATGATTAAGAACTAATTAACAAATTCTTCATTAATTTATCTTCACATCCCAGGAAA
92431 T	G	A	GTTTCCACAAATACCTTTATAAATTAGAAGCATAAATGATTAAGAACTAATTAACAAATTCTTCATTAATTTATCTTCACATCCCAGGAAA
			TTTCCTGGGATGTGAAGATAAATTAATGAAGAATTTGTTAATTAGTTCTTAATCATTTATAT[AG]CTTCTAATTTATAAAGGTATTTGTGGAAACTGGATGAACAGATGC
92431 IS	[AG]		AGCTCATAGAGCTAT
92463 I		S	GTTGCCTAGATAACTAGEATTTCAAAGCAATTTTCTGTCCT
92463 P	T	S	CGCGCCGAGGATTGAAGTTTGGGTTTGTTTTY
92463 P	C	S	ATGACGTGGCAGACGTTGAAGTTTGGGTTTGTTTY
92463 T	T	S	AAACAAAACAAACCCAAACTTCAATGGACAGAAAATTGCTTTGAAATCCTAGTTATCTAGGCAACTT
92463 T	C	S	AAACAAAACAAACCCAAACTTCAACGGACAGAAAATTGCTTTGAAATCCTAGTTATCTAGGCAACTT
			CAAGACTCTAAGATAAAAGCAAATTTTCTGAGAGTAAAACAAACAAACCCAAACTTCAA[TC]GGACAGAAAATTGCTTTGAAATCCTAGTTATCTAGGCAACTTGCTA
92463 IS	[TC]		TTATCCGTTCATTA
92521 I		S	CTGTGAACATATATGGGAGAAGACCAGCTCTTTGGCTA
92521 P	A	S	CGCGCCGAGGTTCTCTGTCTCTTCCCAGGY
92521 P	G	S	ATGACGTGGCAGACTCTCTGTCTCTTCCCAGGY
92521 T	A	S	AGTACCTGGCAGACACAGAGAAAGCCAAAGAGCTGGTCTTCTCCCATATATGTTCACAGCT
92521 T	G	S	AGTACCTGGCAGACACAGAGAAAGCCAAAGAGCTGGTCTTCTCCCATATATGTTCACAGCT
			TGTCATATACTTCCCTCACACTGAAAGTTACACAAATCTTAGTACCTGGCAAGACAGAGA[AG]AGCCAAAGACTGGTCTTCTCCCATATATGTTCACAGCTGCGAATGT
92521 IS	[AG]		GTTAGGCAGAAT
92533 I		S	TGCCACCGGCAGAAGATTTGAGGAATATGCCT
92533 P	C	S	ATGACGTGGCAGACGTATTTAAAAGCCTGTCTGAAAGY
92533 P	T	S	CGCGCCGAGGATATTTAAAAGCCTGTCTGAAAGY
92533 T	C	S	GATTCTTTCAGACAGGCTTTTAAATACGGCATATTCCTCAAATCTTCTGCCCGTGGCACC
92533 T	T	S	GATTCTTTCAGACAGGCTTTTAAATATGGCATATTCCTCAAATCTTCTGCCCGTGGCACC
			TTATATTGGCTCAGAGATAGGCTCTTAGCTCATAGATTCTTTCAGACAGGCTTTTAAATA[CT]GGCATATTCCTCAAATCTTCTGCCCGTGGCACCTGATTCTCAGGTAAT
92533 IS	[CT]		ACACTTTGAATT
92635 I		A	GTGCCTCTGTGGGGGGTGGGGC
92635 P	G	A	ATGACGTGGCAGACGCACAGGGCAAAGTY
92635 P	T	A	CGCGCCGAGGTCACAGGGCAAAGTCAY
92635 T	G	A	CCTGTGACTTTTGCCCTGTGCCCCCACCCCCCACAGAGGCACCC
92635 T	T	A	CCTGTGACTTTTGCCCTGTGACCCCACCCCCCACAGAGGCACCC
			GTGTCACGTCACAGCCCAGGGCGCTCGTACTGCACATGGGGTGCCTCTGTGGGGGGTGGGG[GT]CACAGGGCAAAAGTCACAGGTCACAGCCCGGCCCAGCACCCGCAGGC
92635 IS	[GT]		GAGCGTGCTCAGA
92723 I		S	CCAAGAAAAGAAGTCCTTGTATGTAGTGCAAAACACCCAGATGC
92723 P	A	S	CGCGCCGAGGTTGTCCTTGGCACCTY
92723 P	C	S	ATGACGTGGCAGACGTGTCTCTTGGCACCTY
92723 T	A	S	GTGCAGGTGCCAAGGACAACATCTGGGTGTTTTGCACTACATACAAGGACTTCTTTTCTTGGCT
92723 T	C	S	GTGCAGGTGCCAAGGACAACATCTGGGTGTTTTGCACTACATACAAGGACTTCTTTTCTTGGCT
			CAGTGTCCGTGGAAGAGGATGTGAGAGATGGGGGGGCGGGGGGTGAAGGTGCCAAGGACA[AC]CATCTGGGTGTTTTGCACTACATACAAGGACTTCTTTTCTTGGCTG
92723 IS	[AC]		TTAGAAATGCCGAG
92816 I		A	GGCCCTCCGCCTGGGGAGAGACT
92816 P	G	A	ATGACGTGGCAGACGAGAACGGAGAACACACY
92816 P	A	A	CGCGCCGAGGAAACGGAGAACACACCY
92816 T	G	A	CCCAGGTGTCTTCTCCGTTCTCGTCTCTCCCCAGGCGGAGGGCCTG
92816 T	A	A	CCCAGGTGTCTTCTCCGTTCTTGTCTCTCCCCAGGCGGAGGGCCTG
			GAAGAGGAGGTGCCCCACCCACATGGGCCTTCGCTGCAGCCCTCCGCCTGGGGAGAGAC[GA]AGAACGCGACAAGACACCTGGGCACAGAAACCTGGGTGGAAAAGGGC
92816 IS	[GA]		AAGGAGAGCCTGAA
92874 I		S	GCATCCCATGGTGCCTTGCGCGT
92874 P	G	S	CGCGCCGAGGCCAGCGCAGCCAT

FIGURE 129C









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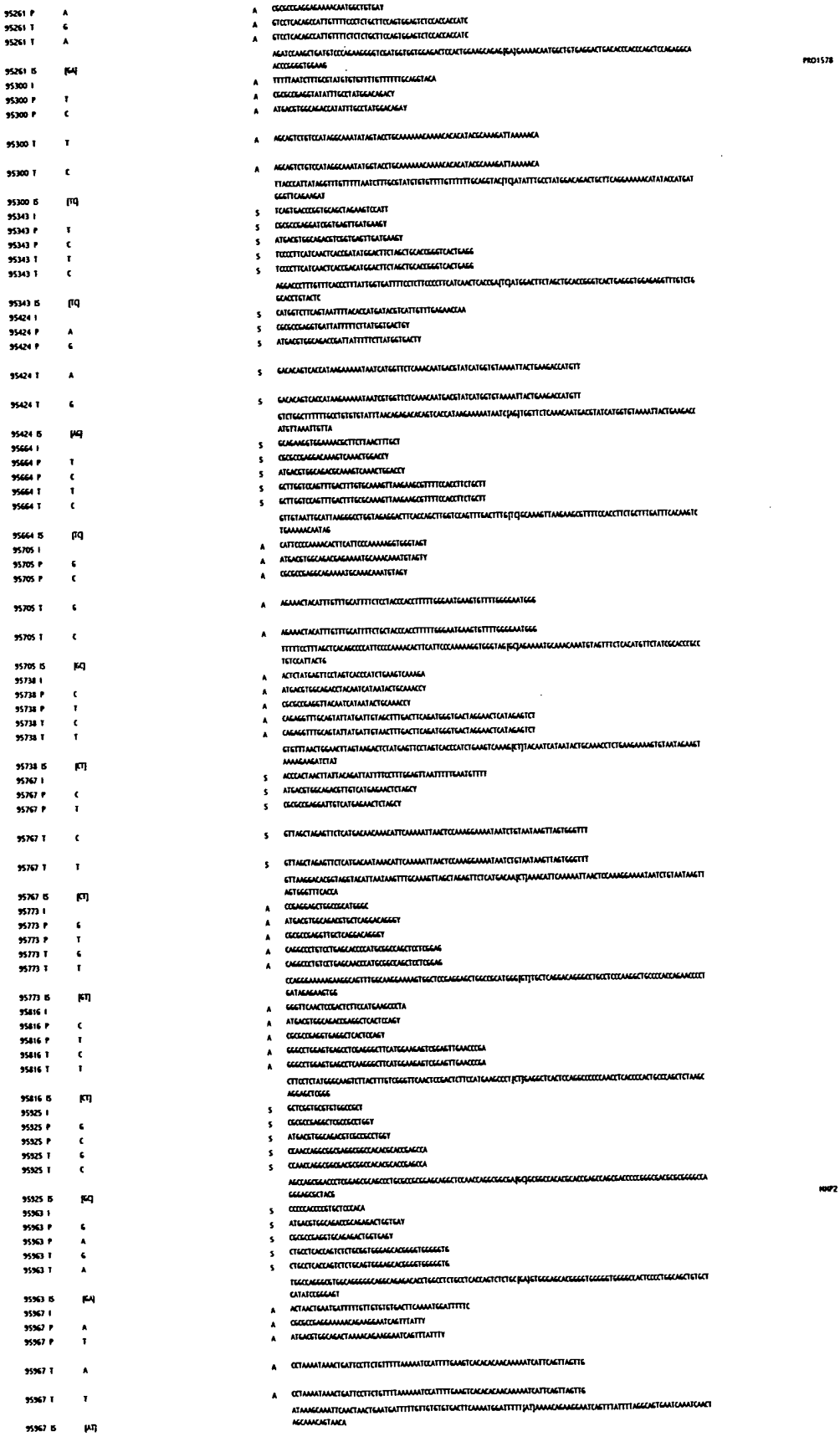


FIGURE 129C

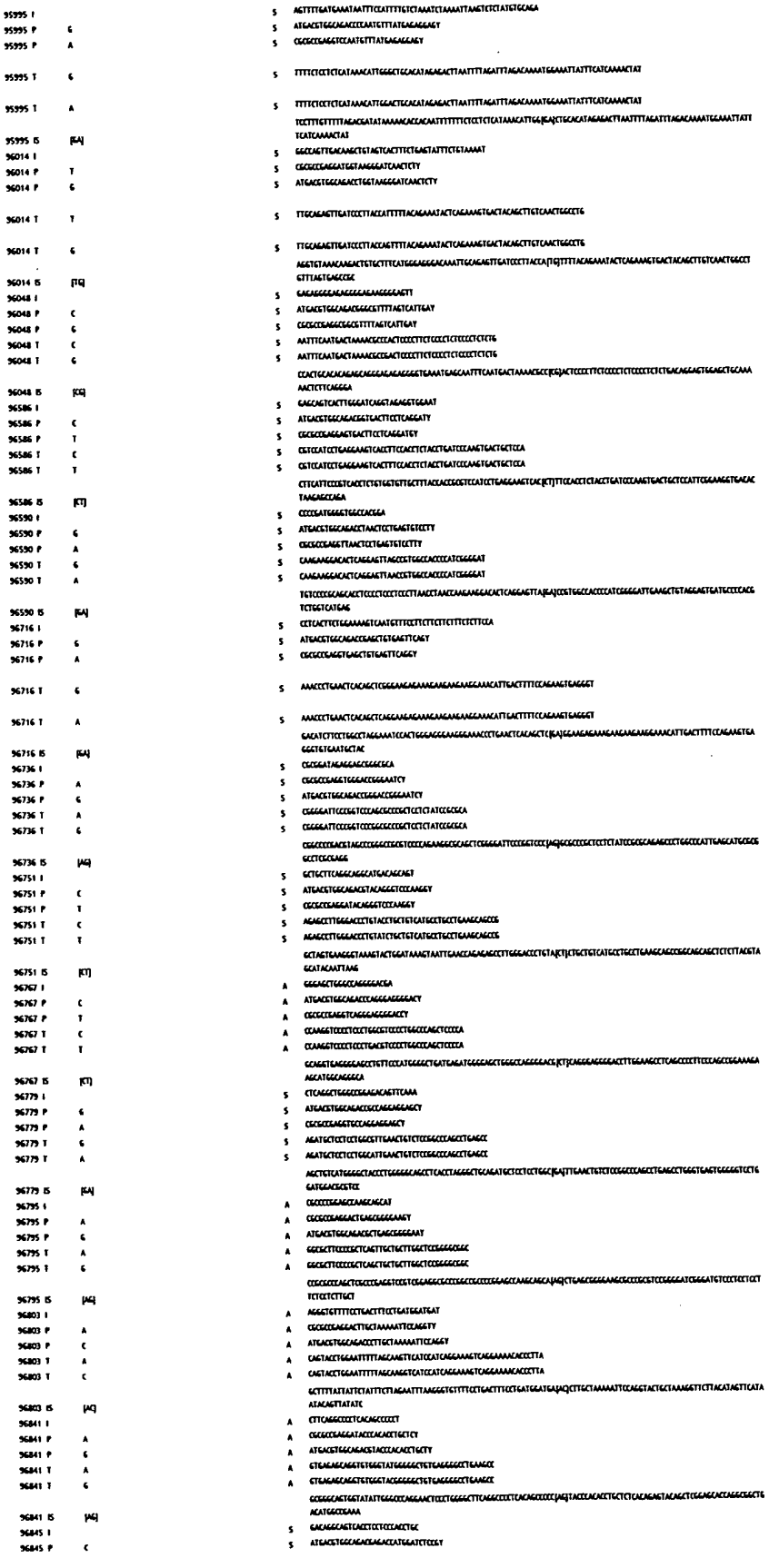


FIGURE 129C

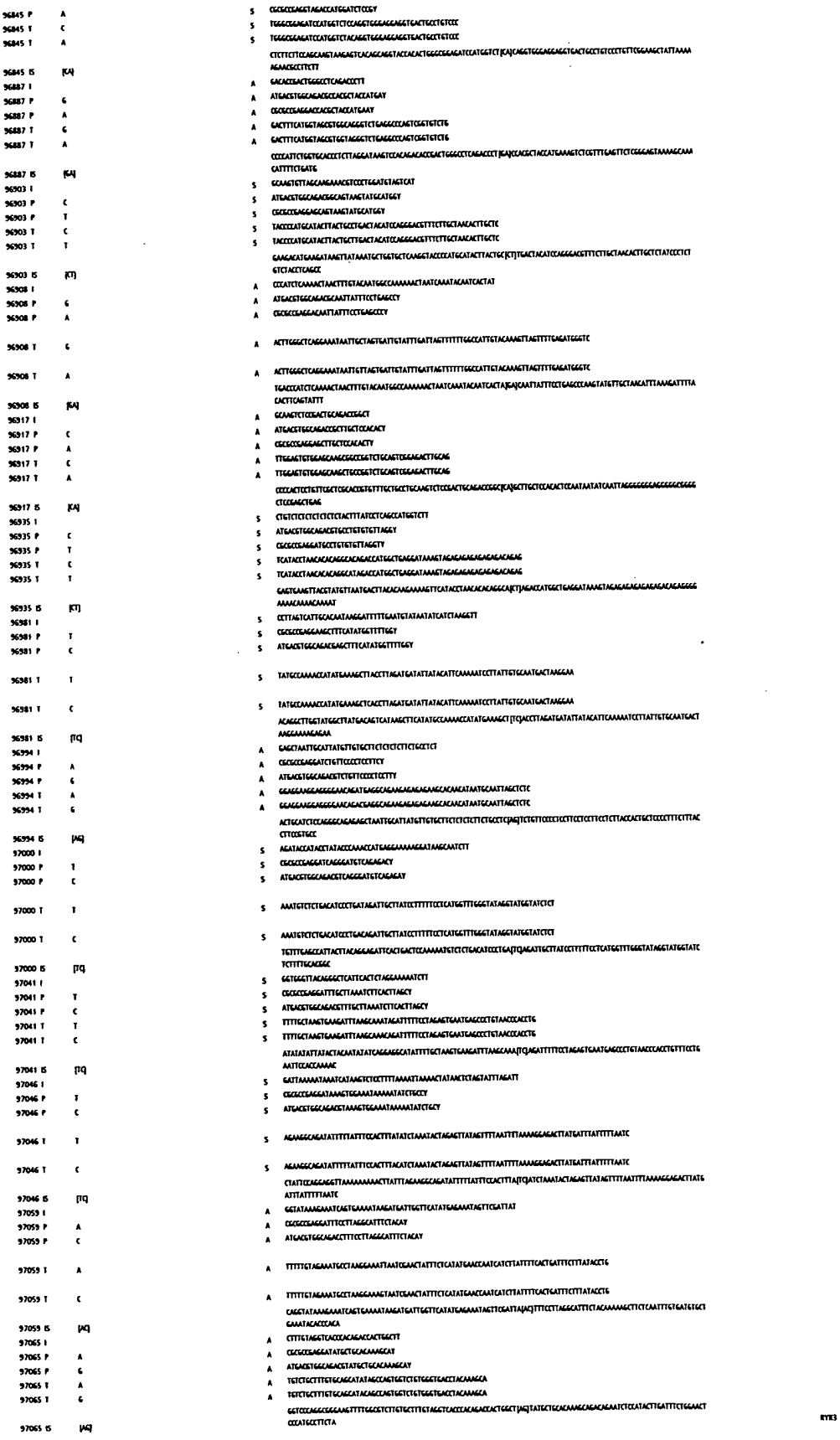
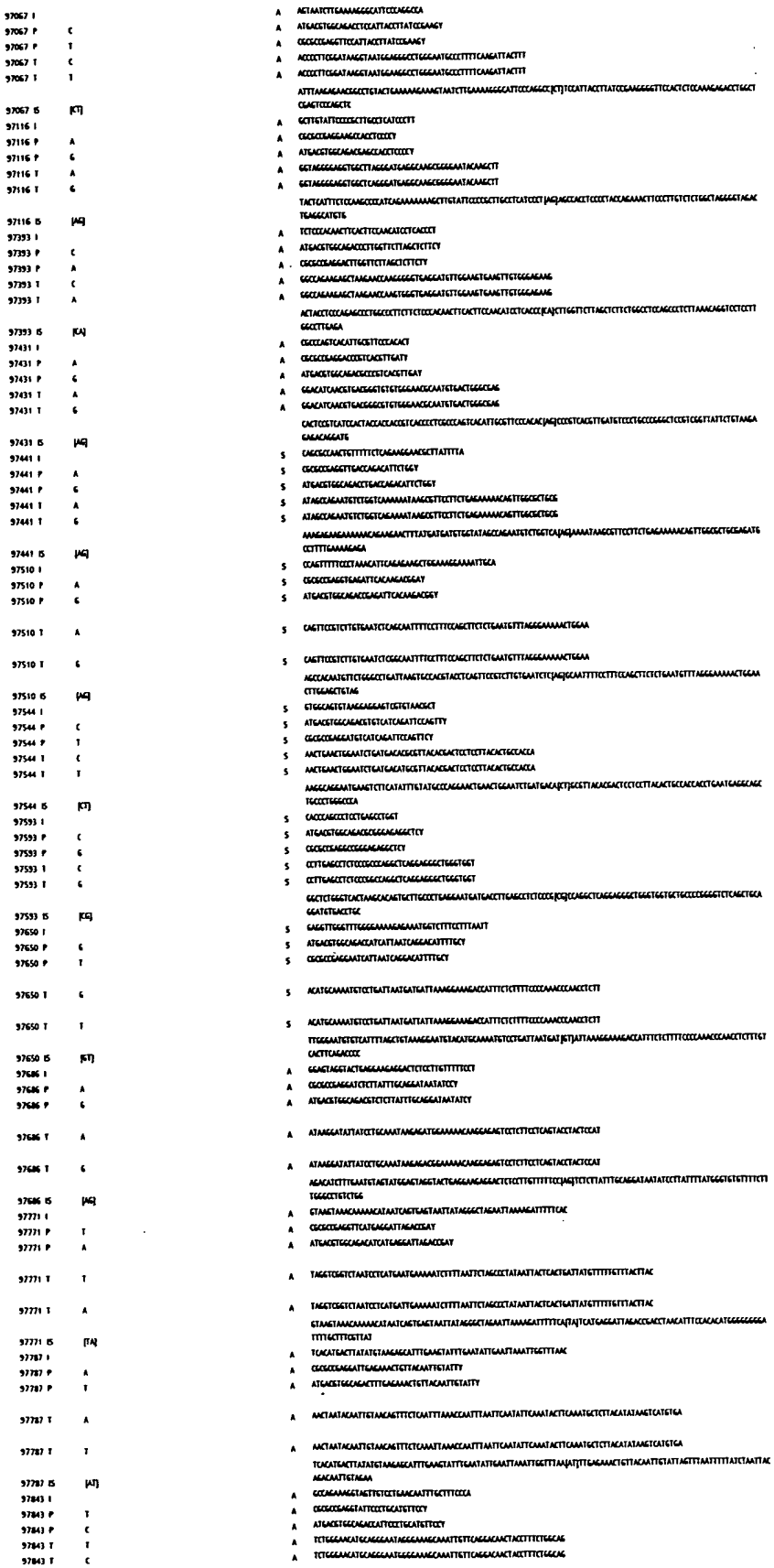


FIGURE 129C



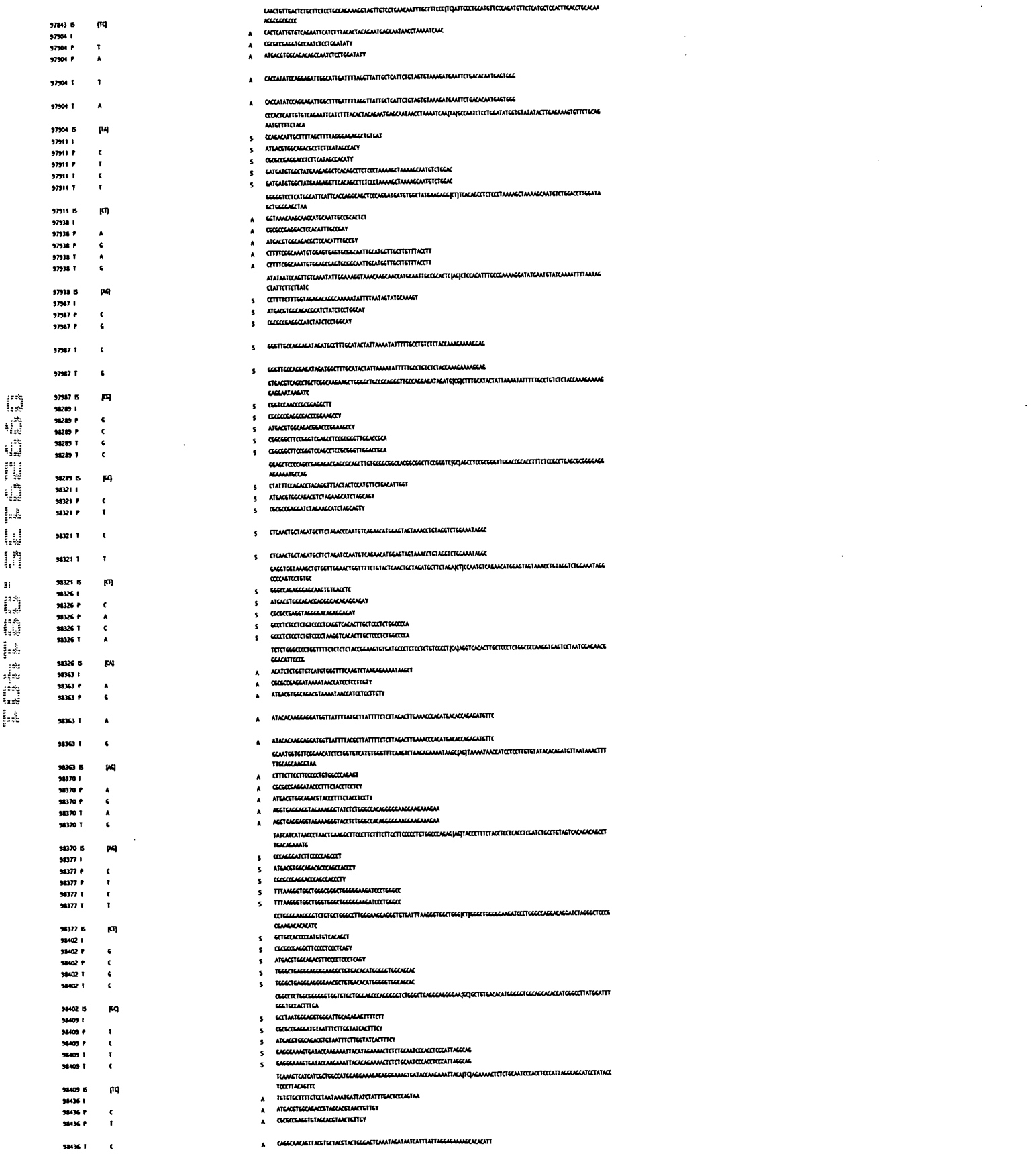
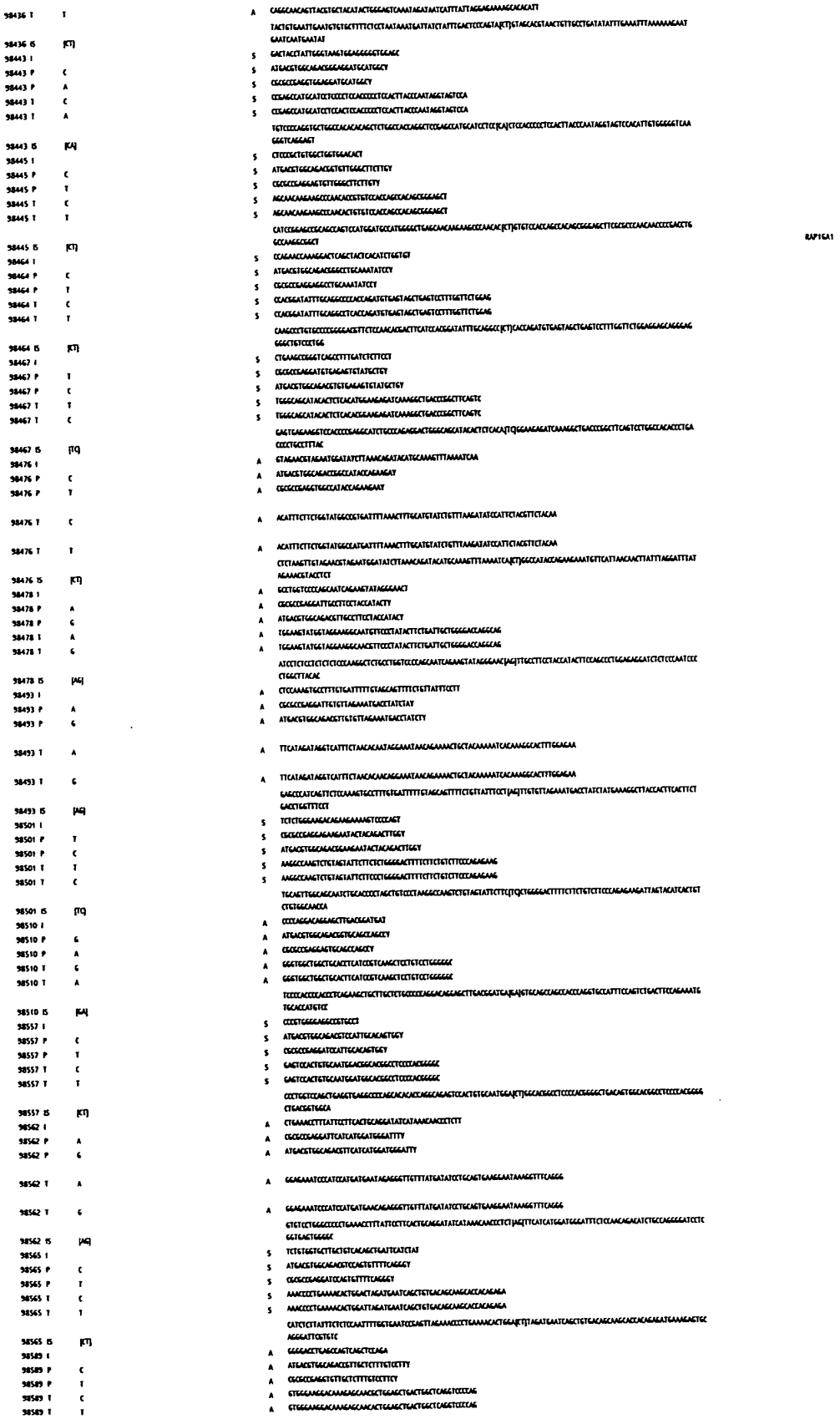


FIGURE 129C



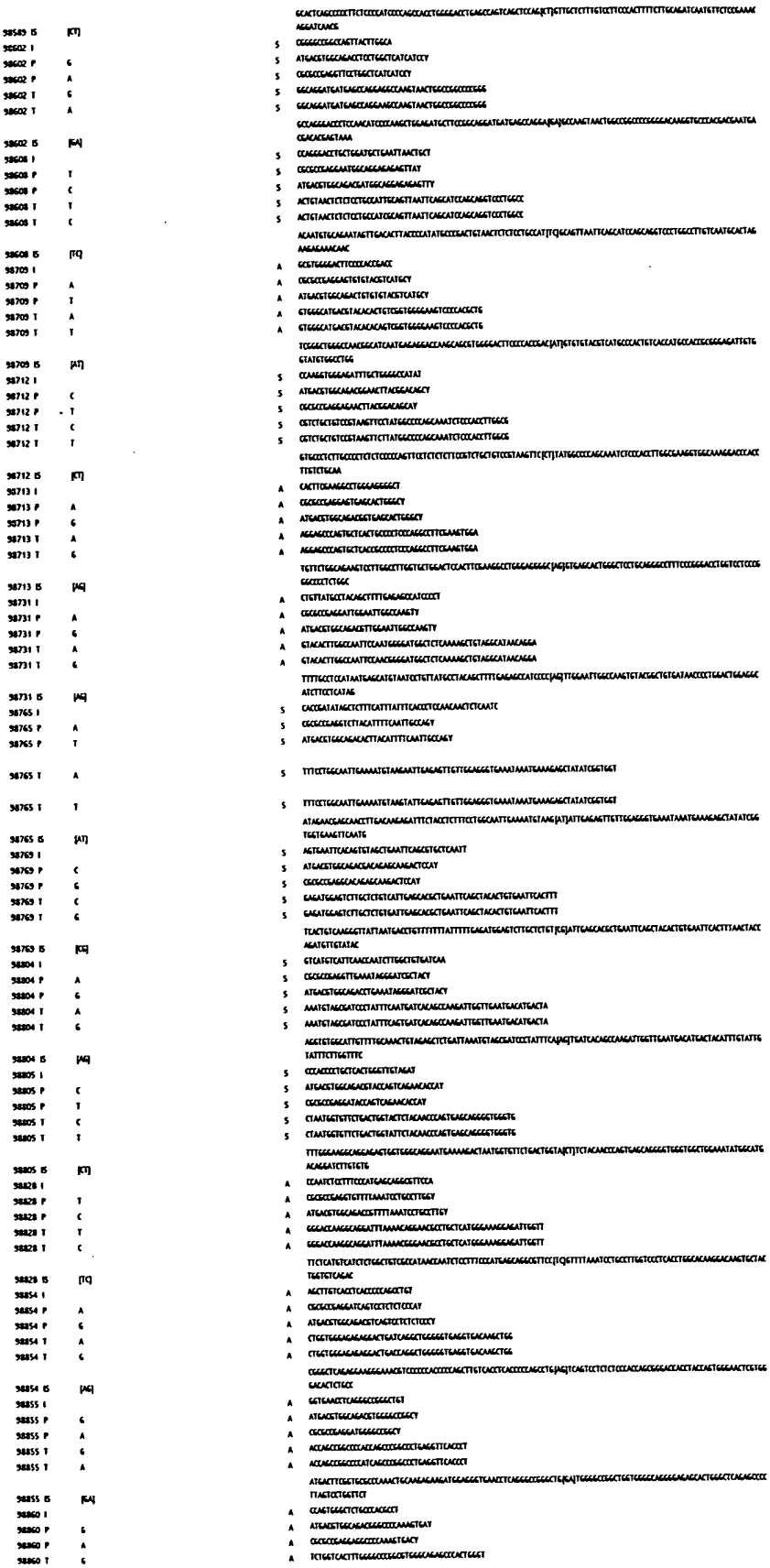


FIGURE 129C

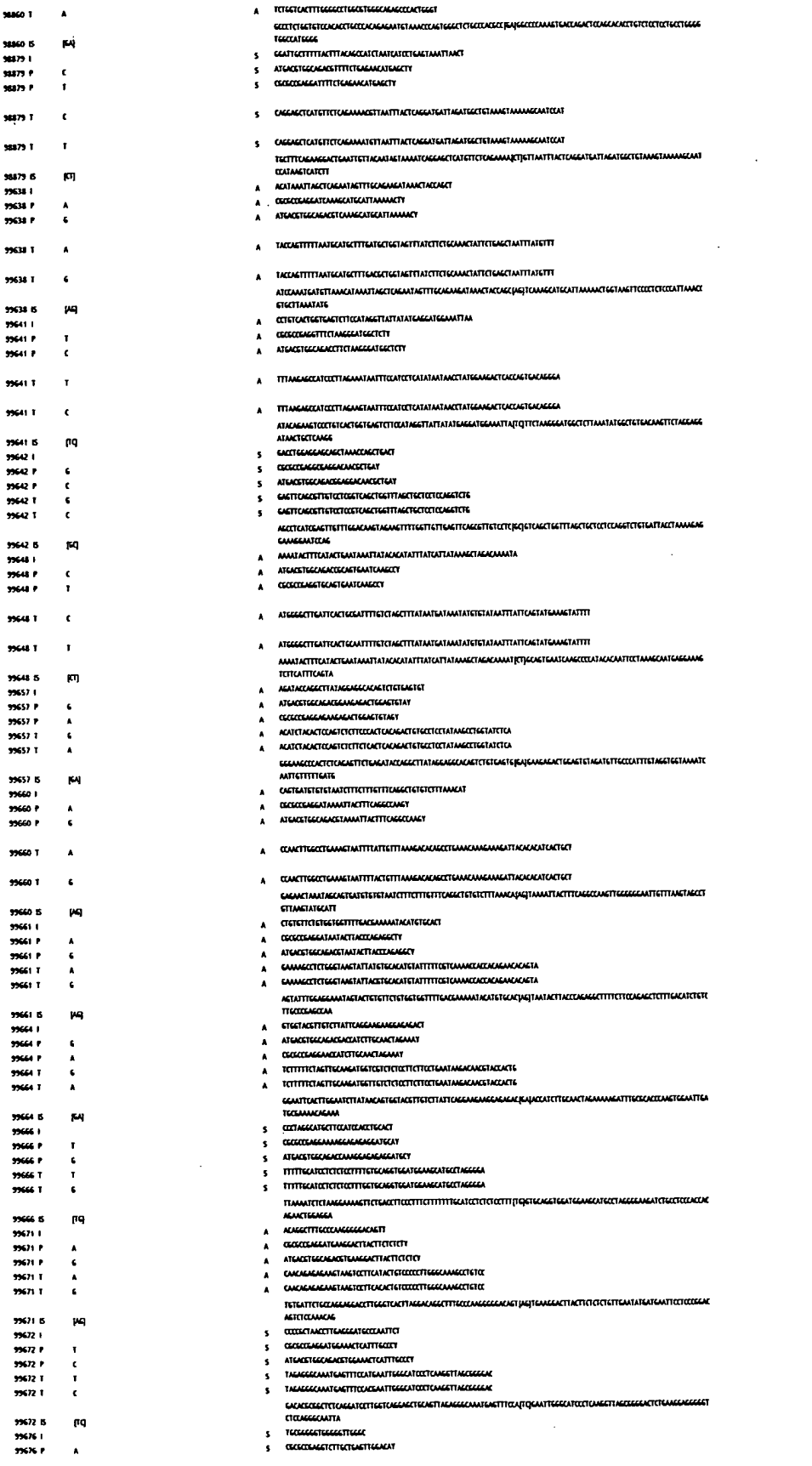


FIGURE 129C

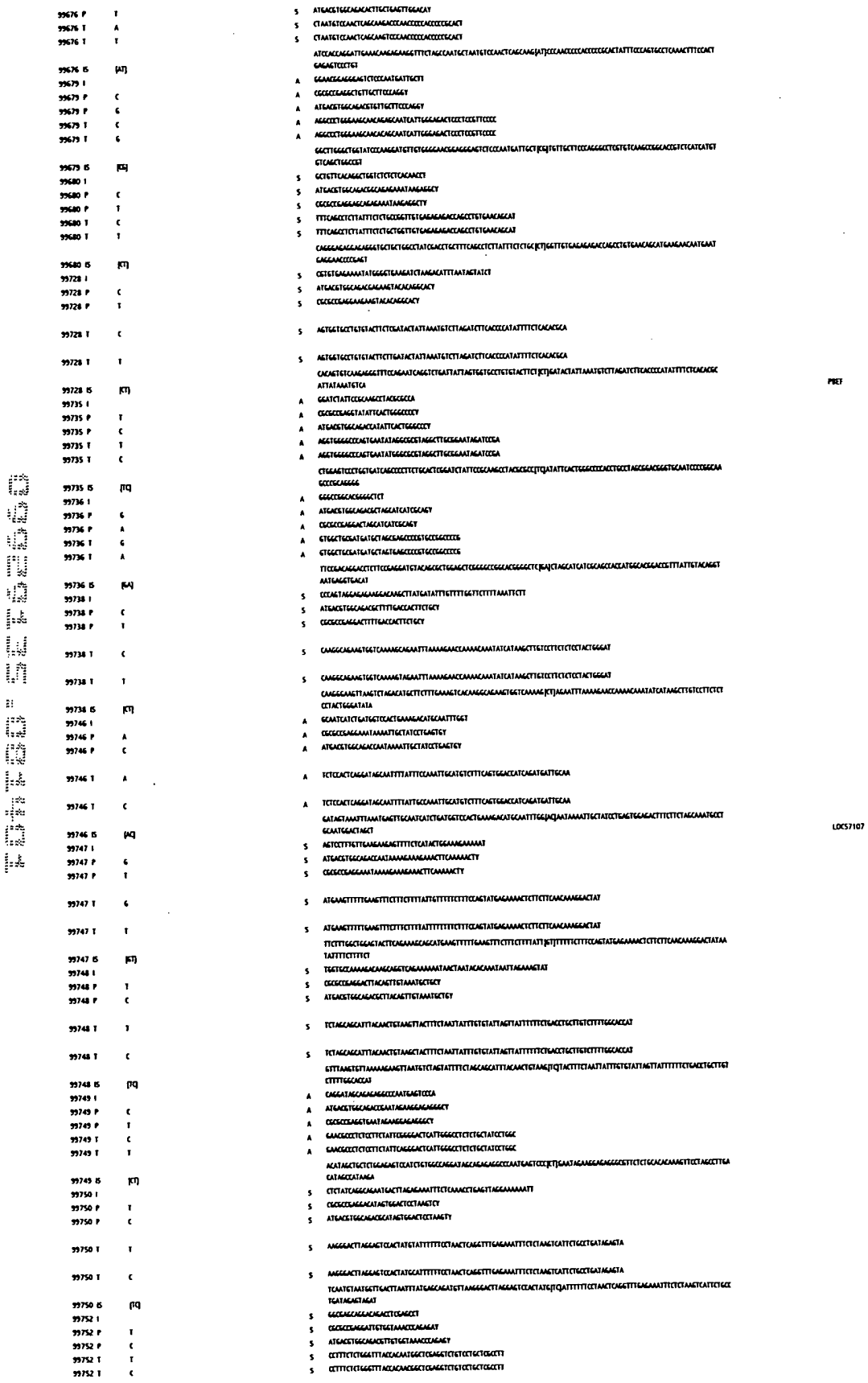


FIGURE 129C

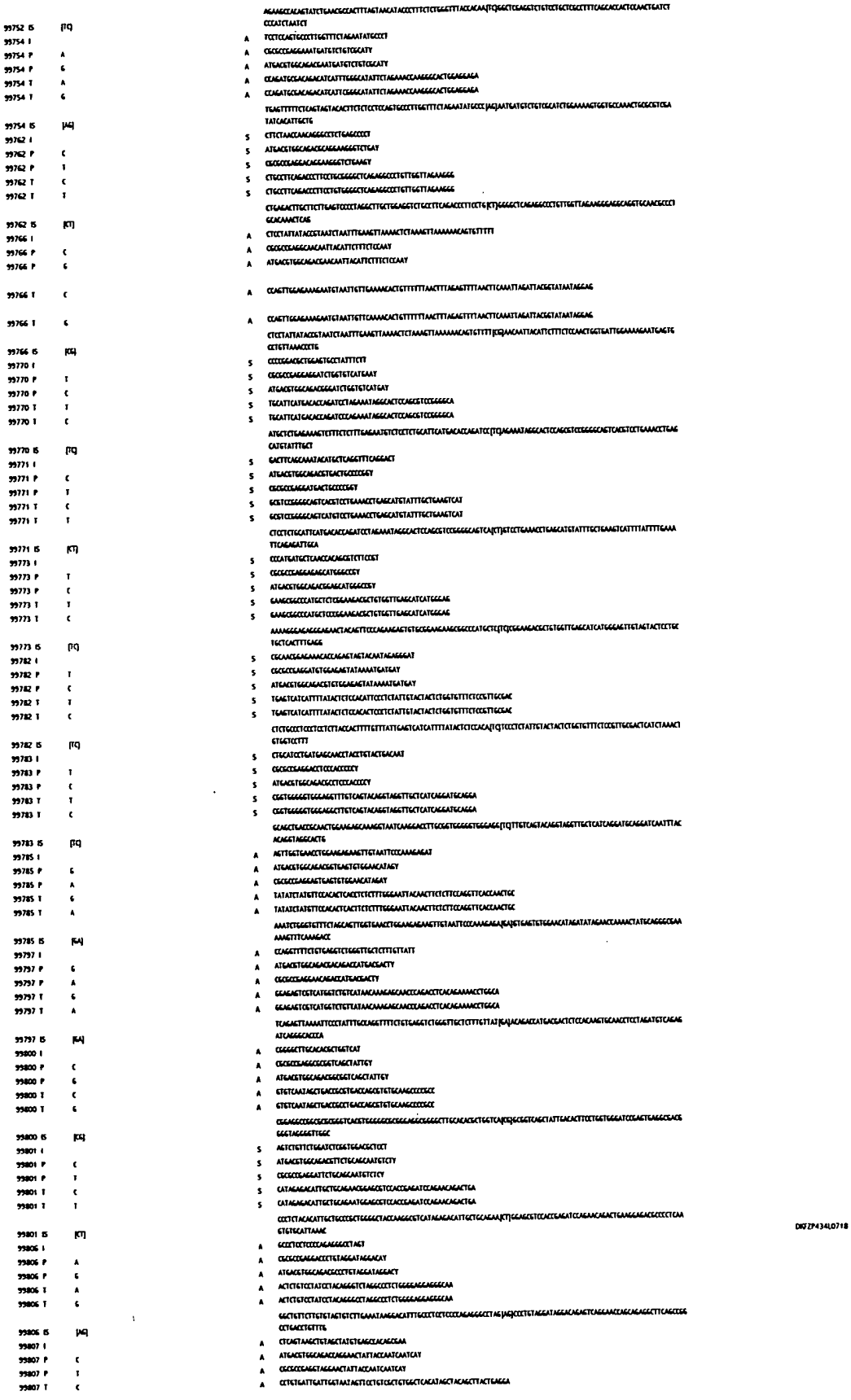


FIGURE 129C

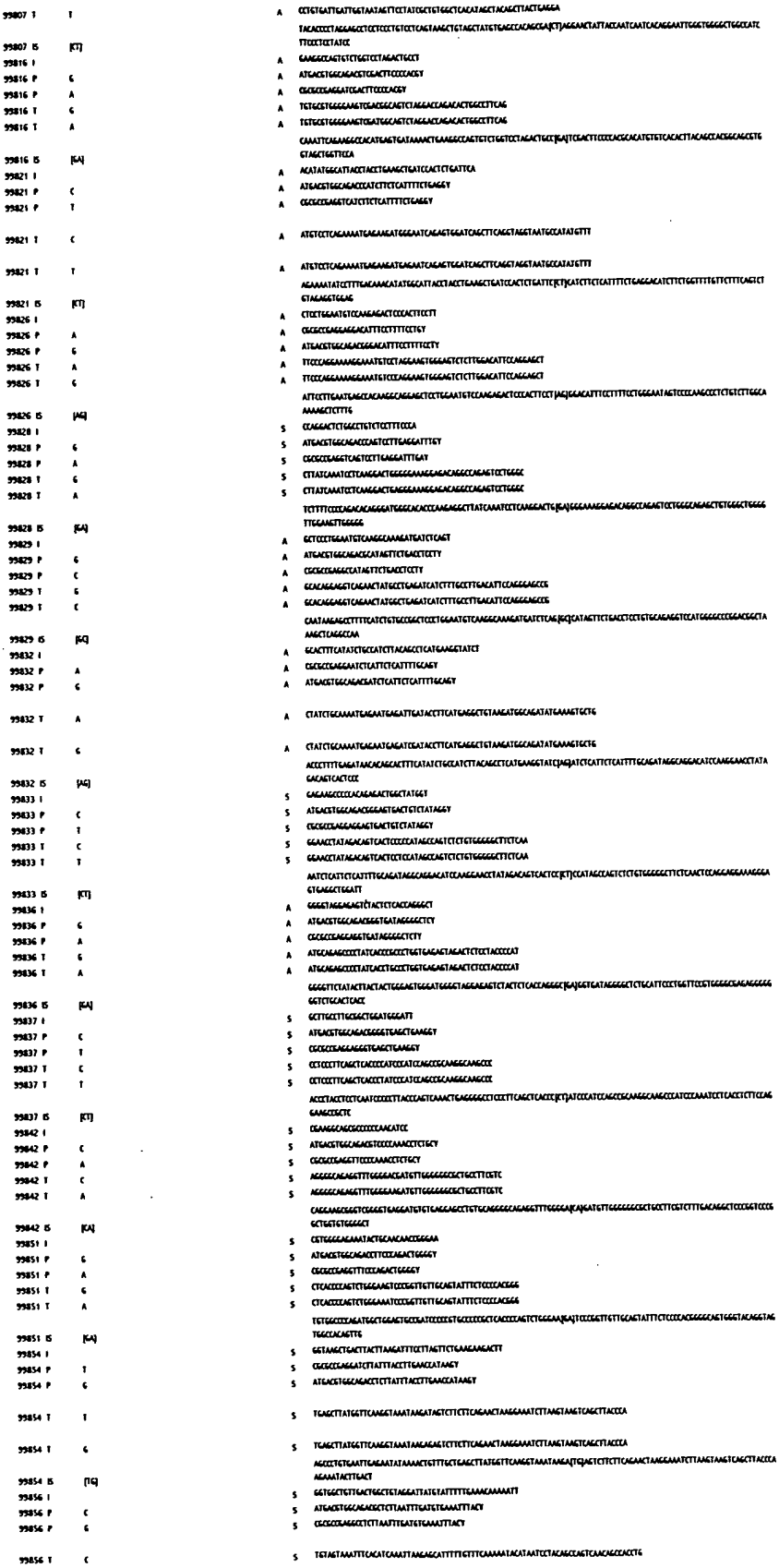


FIGURE 129C

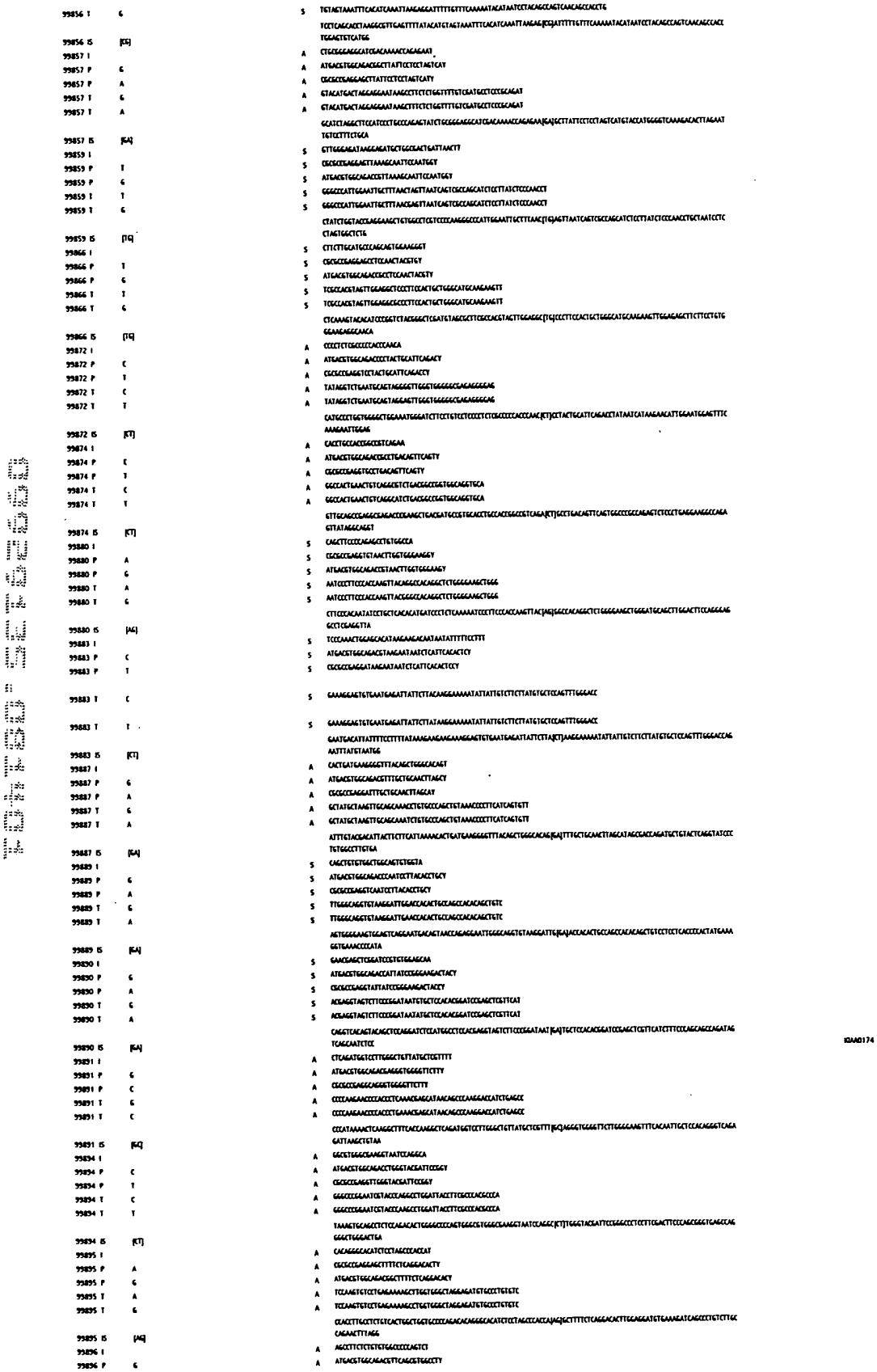


FIGURE 129C

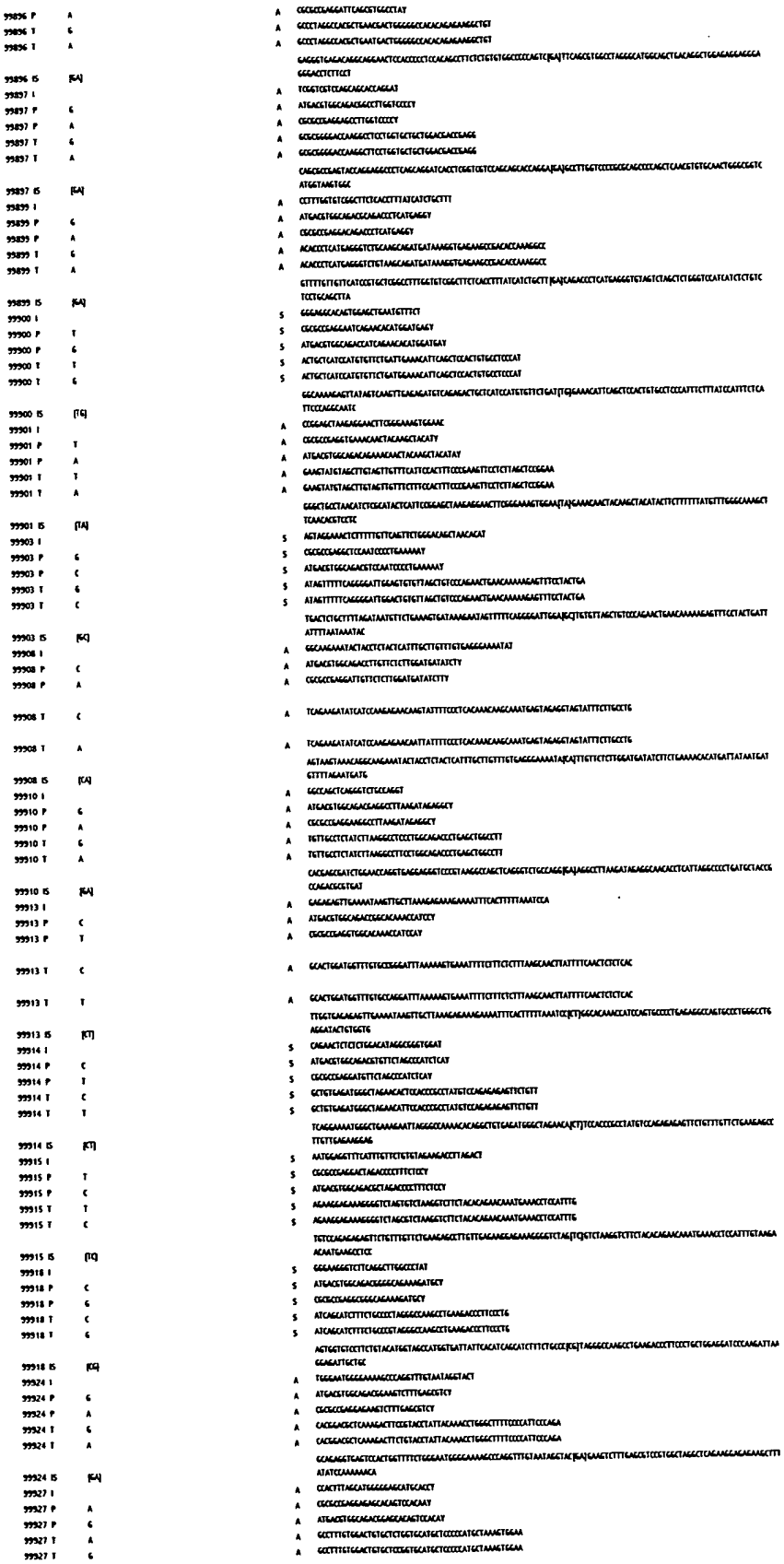


FIGURE 129C

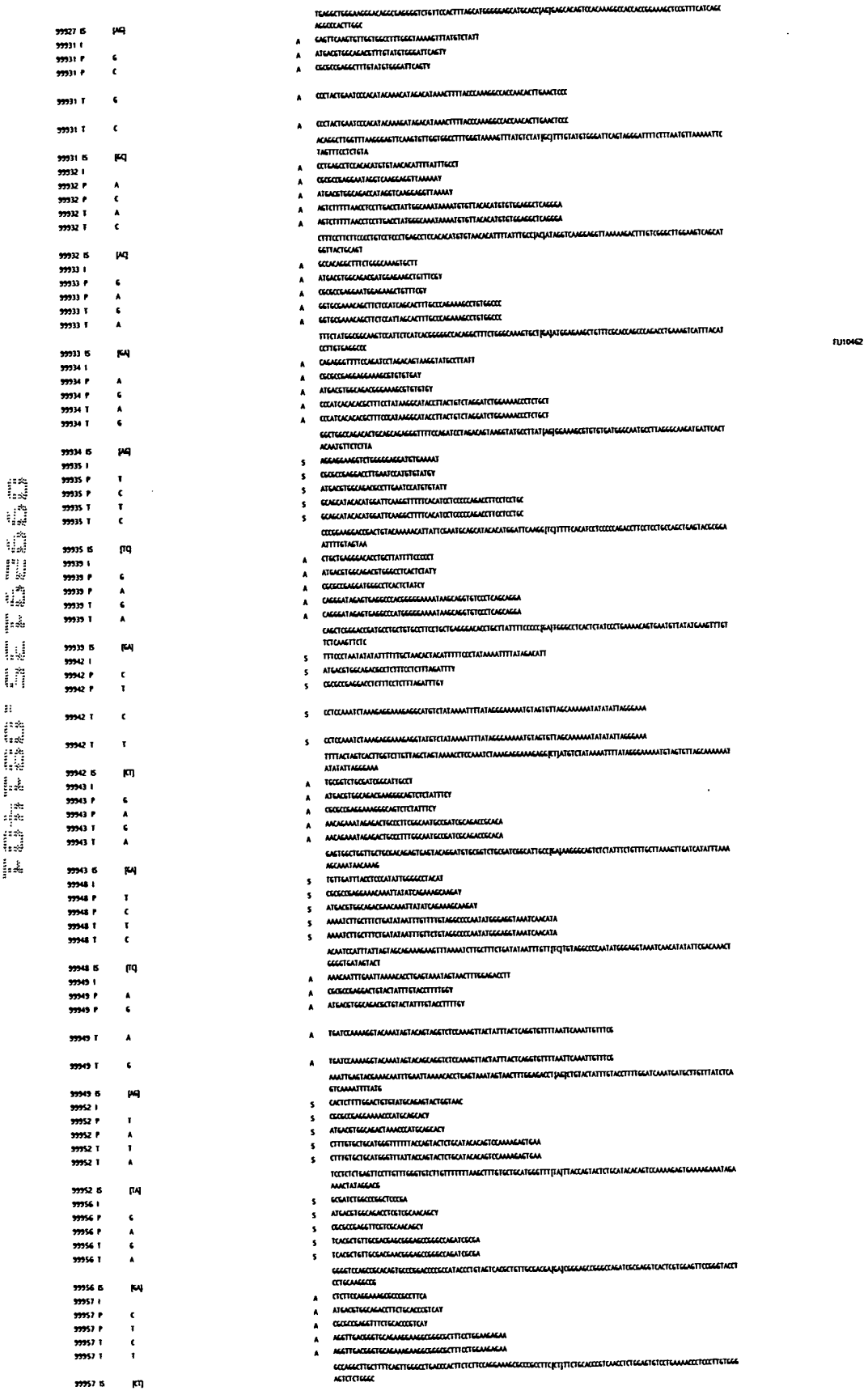


FIGURE 129C

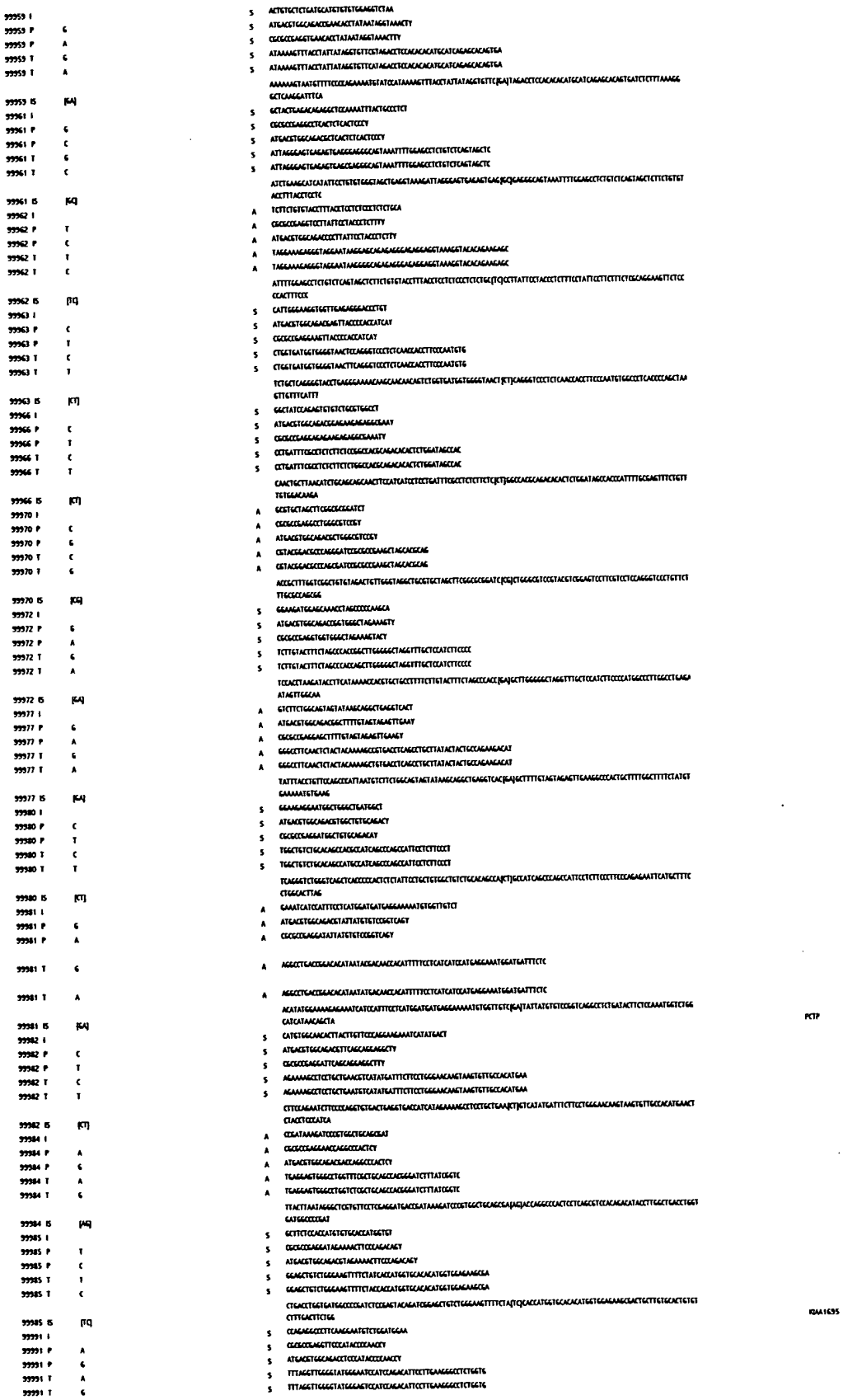
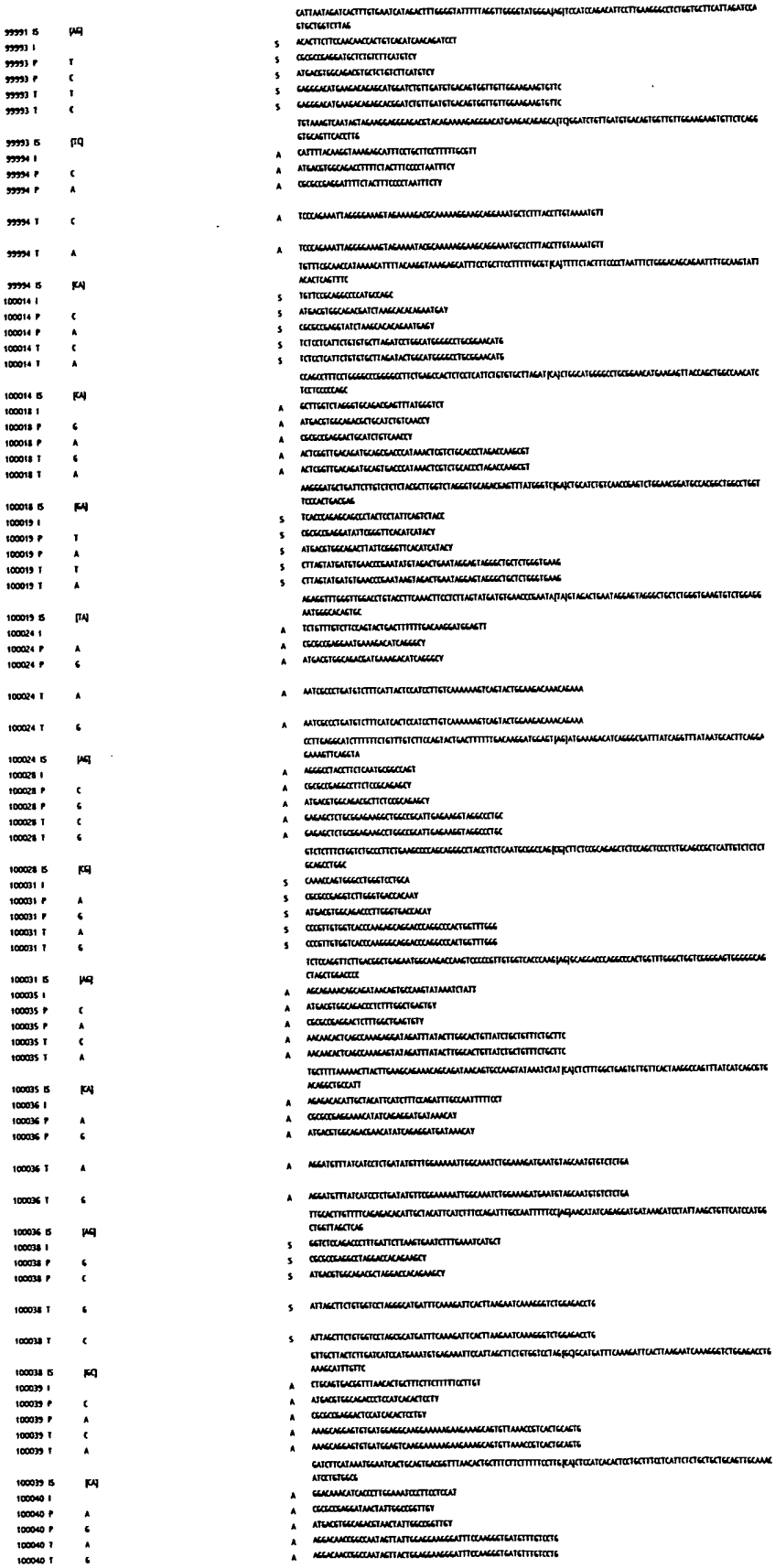


FIGURE 129C



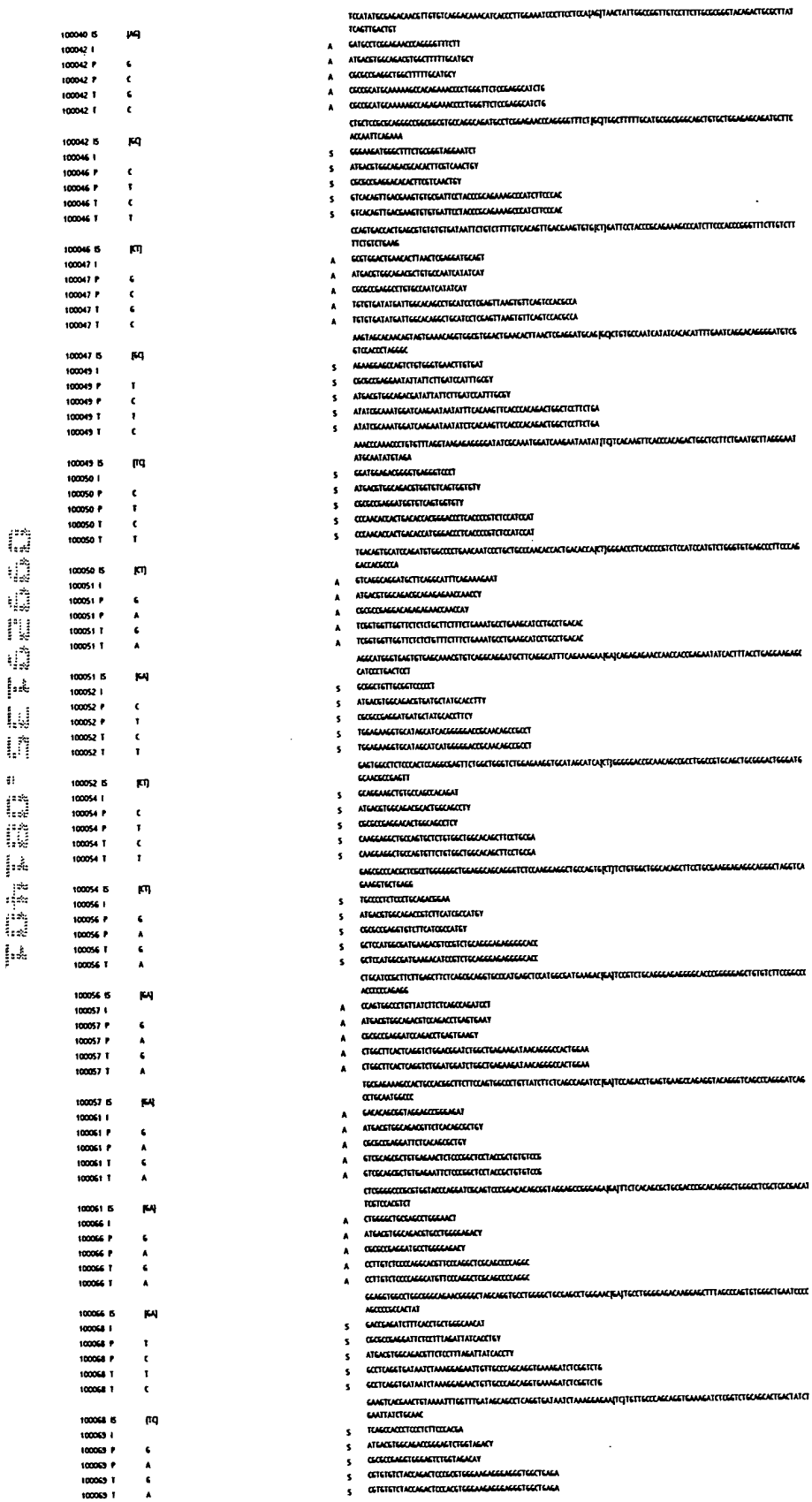
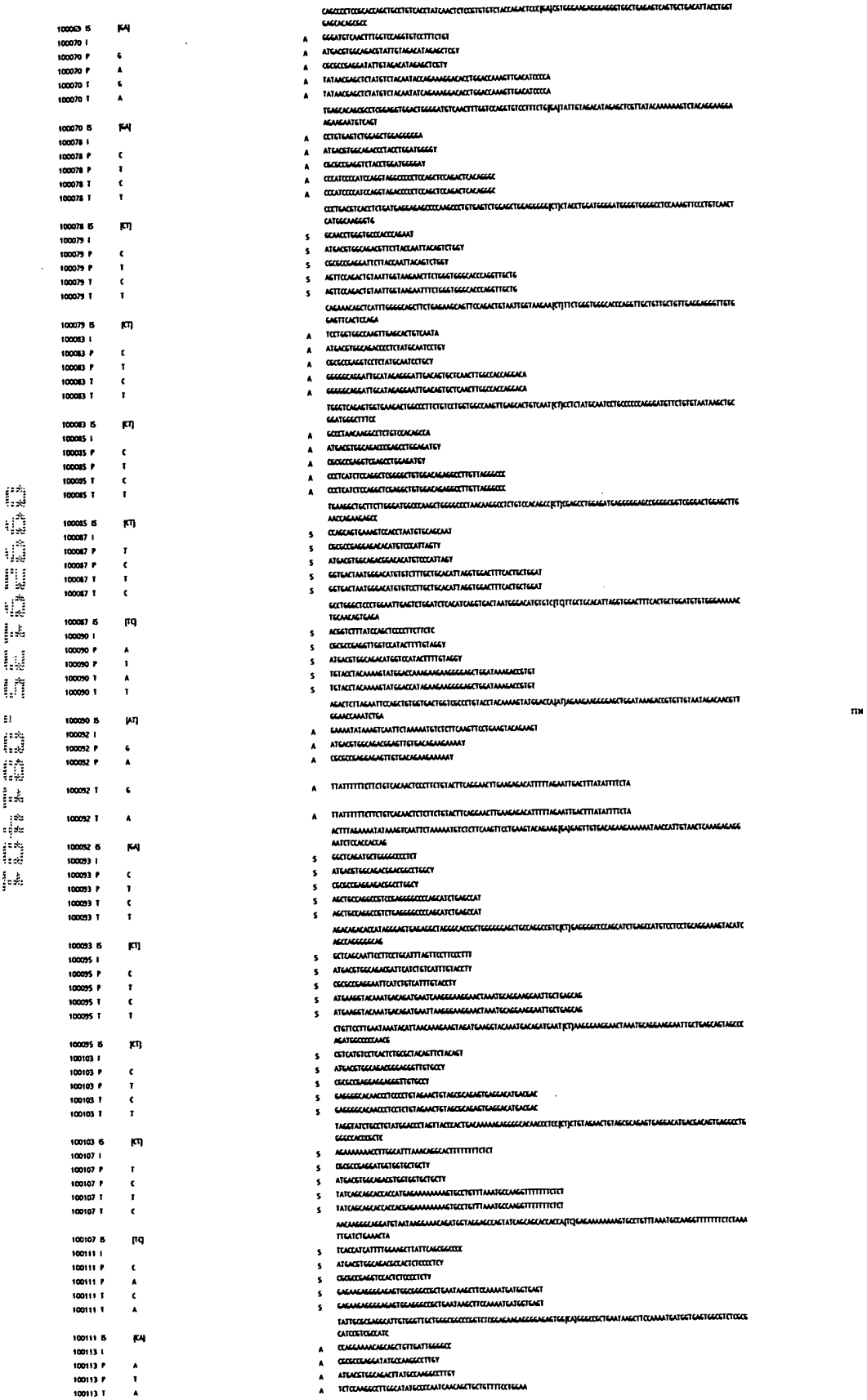


FIGURE 129C



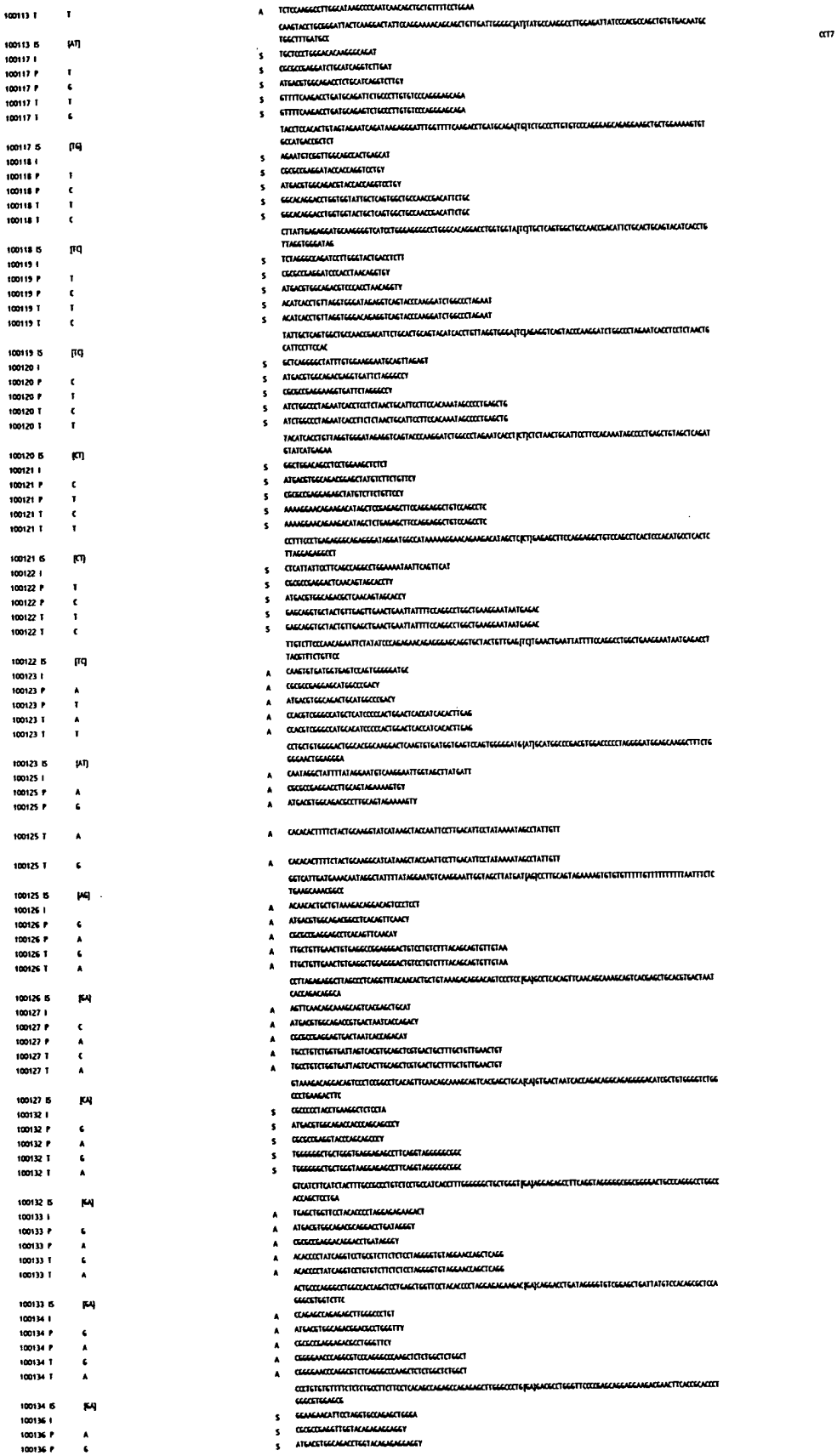


FIGURE 129C

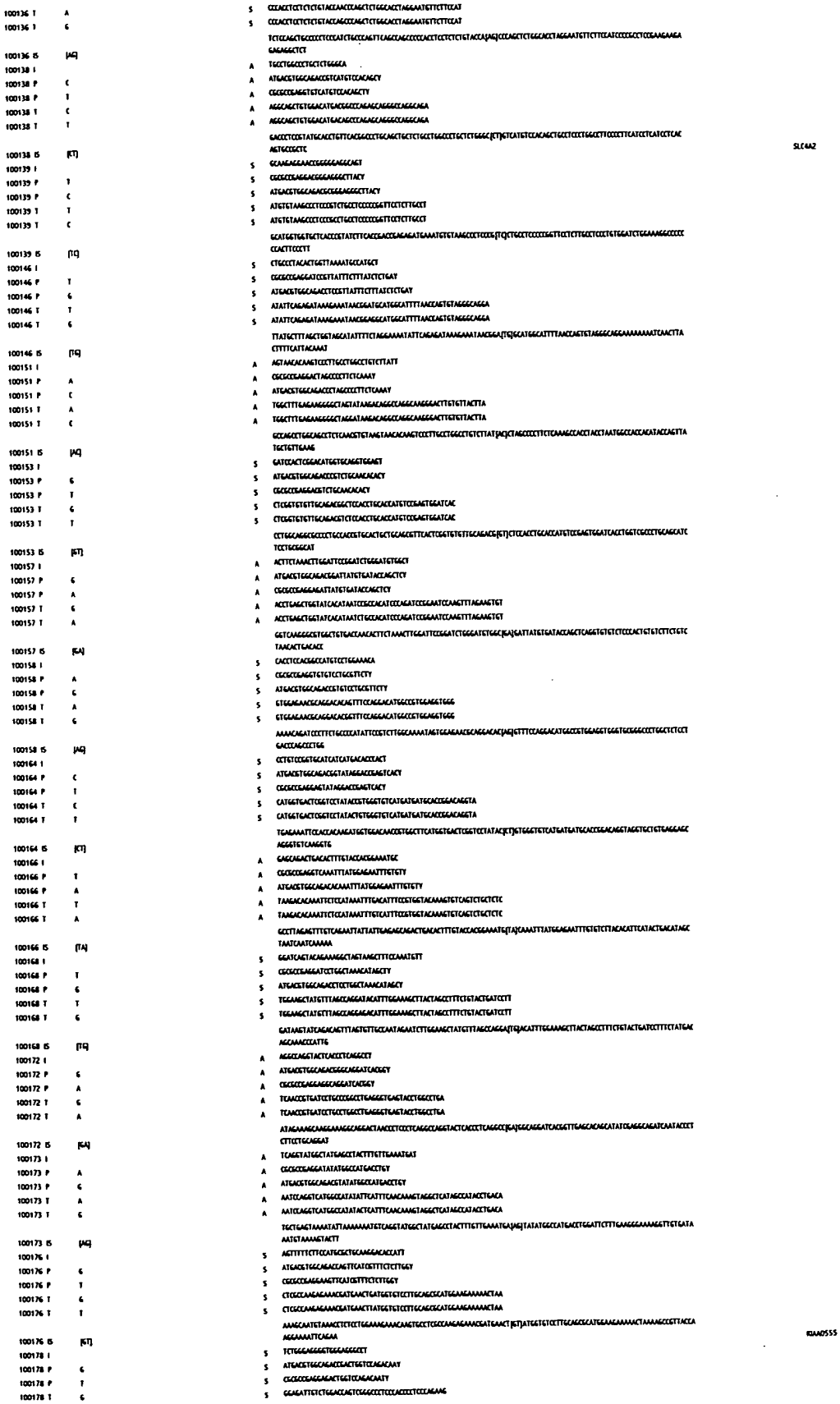
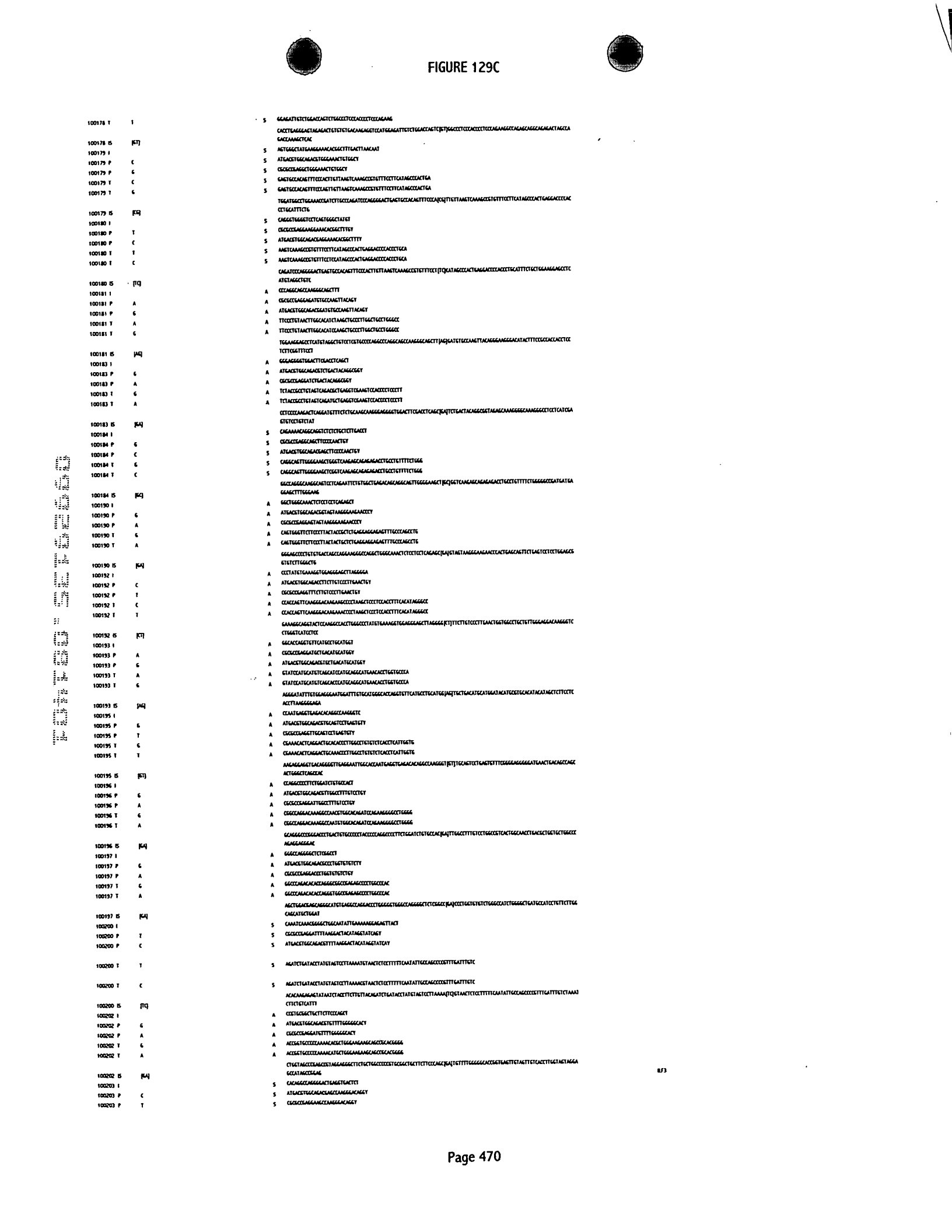
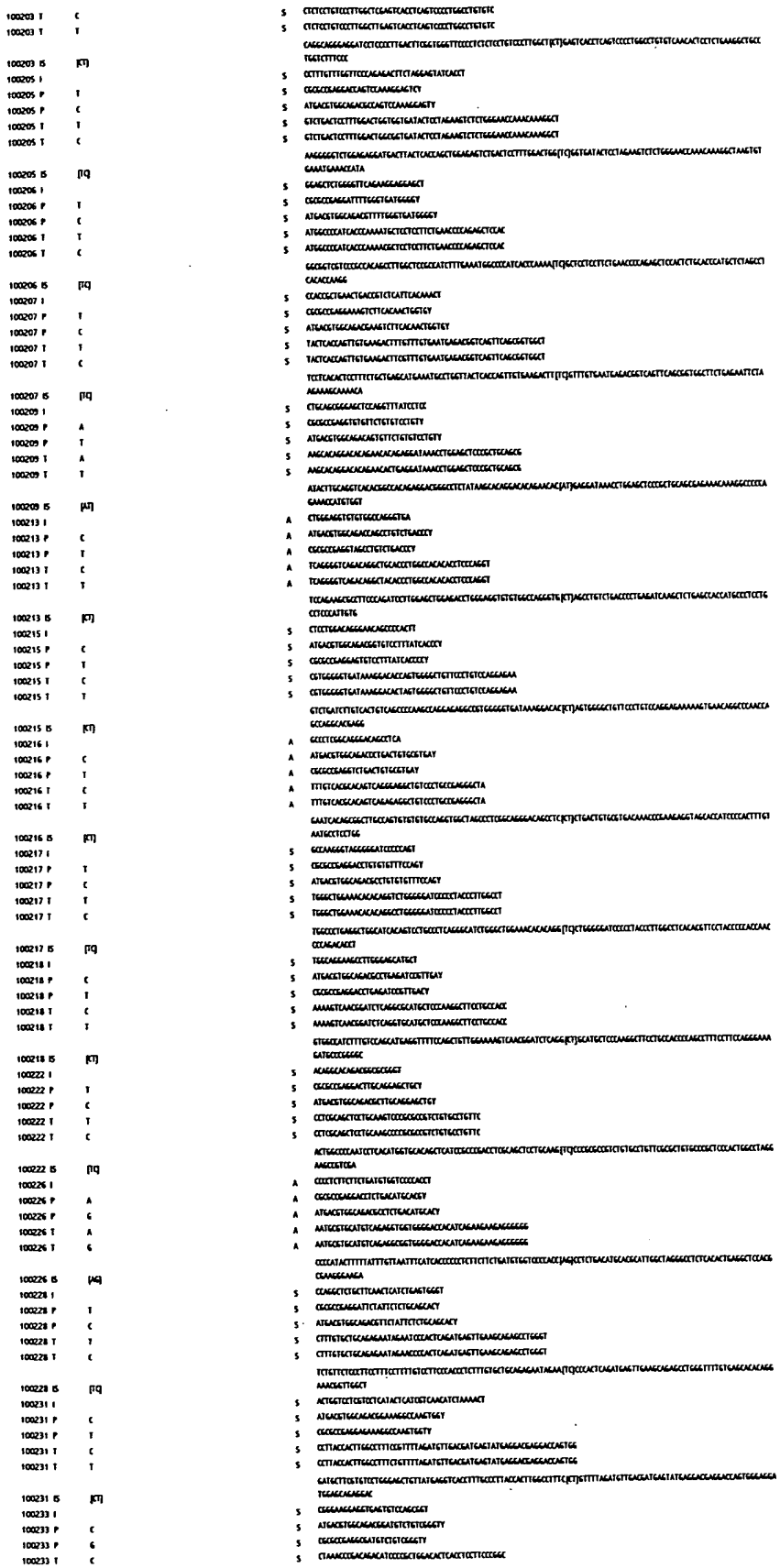


FIGURE 129C





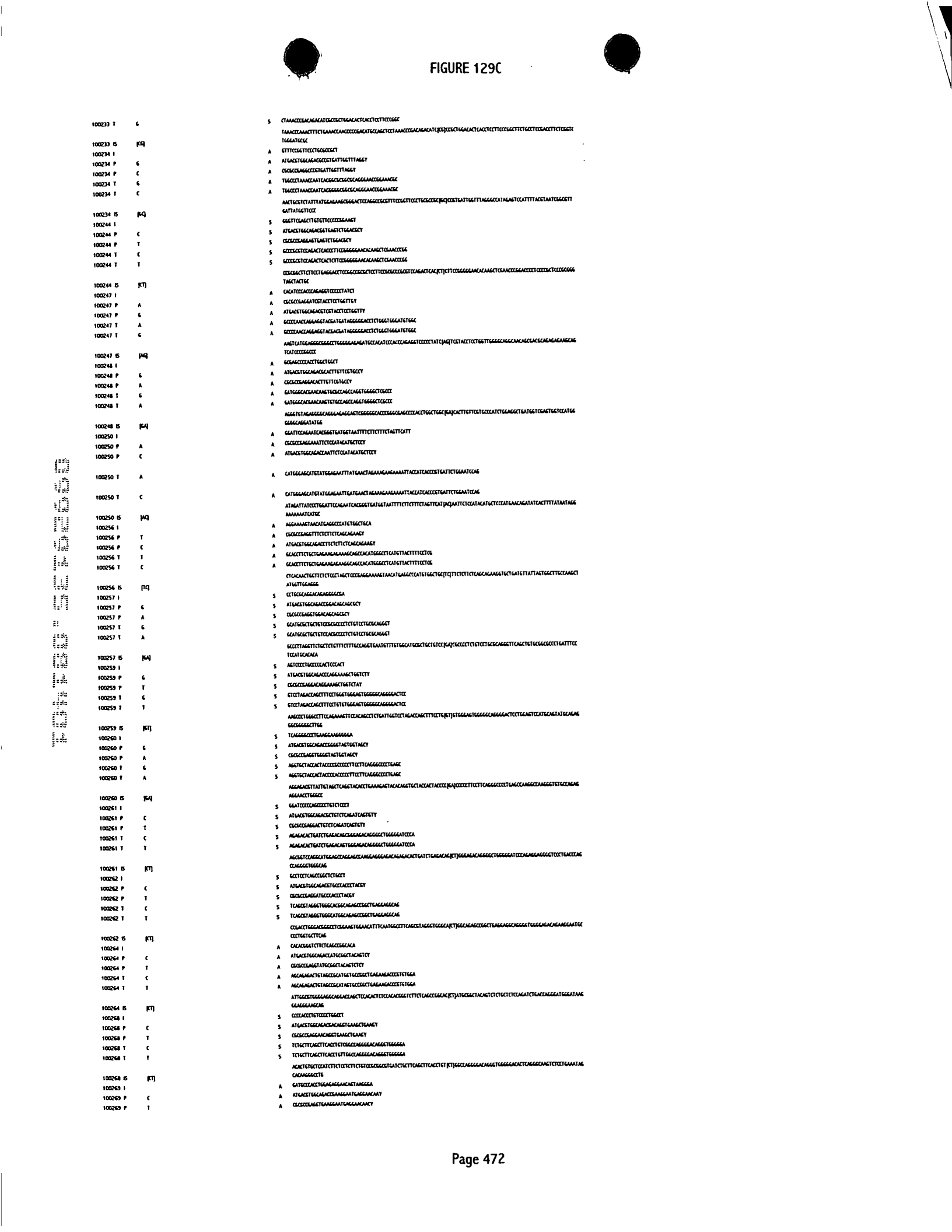


FIGURE 129C

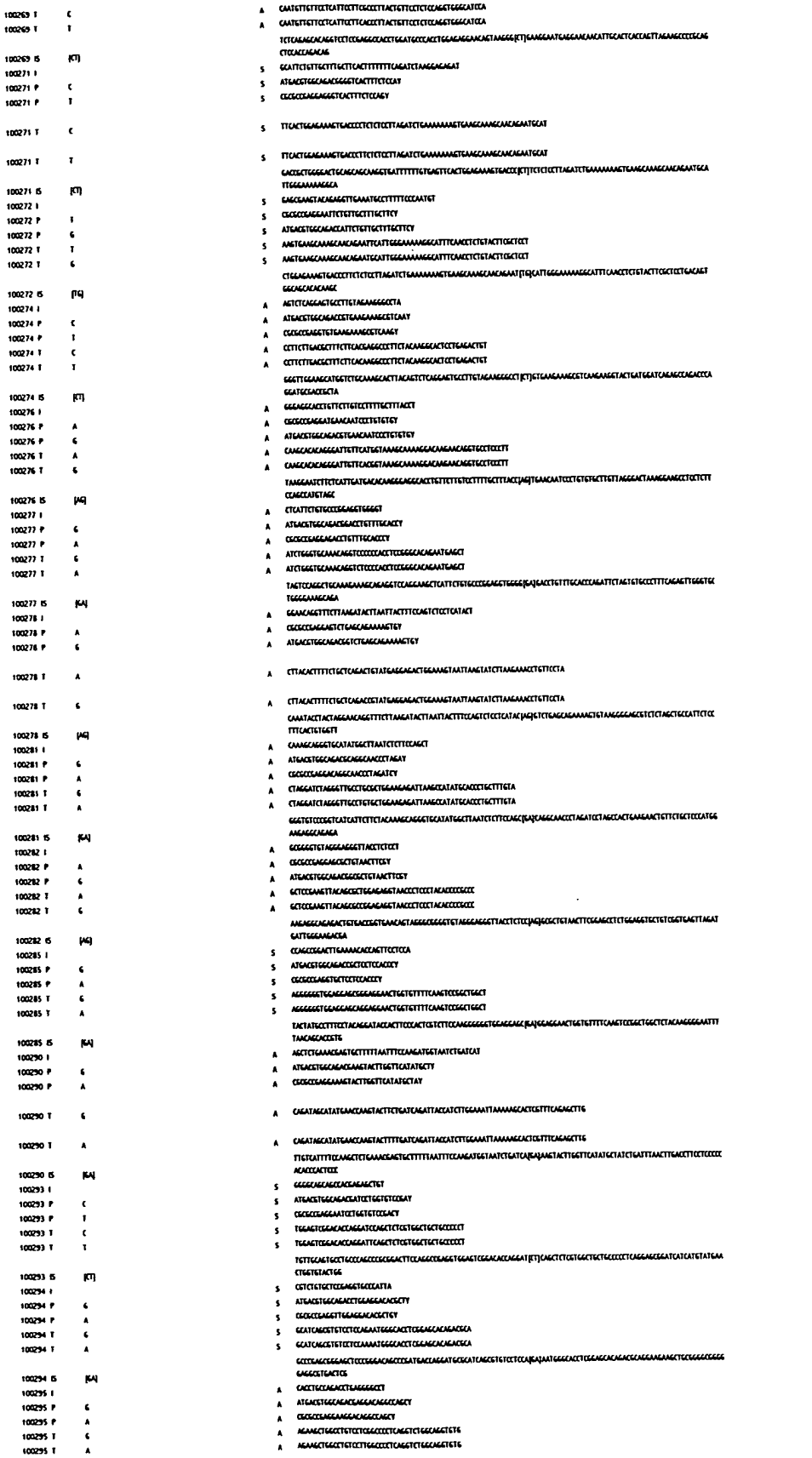
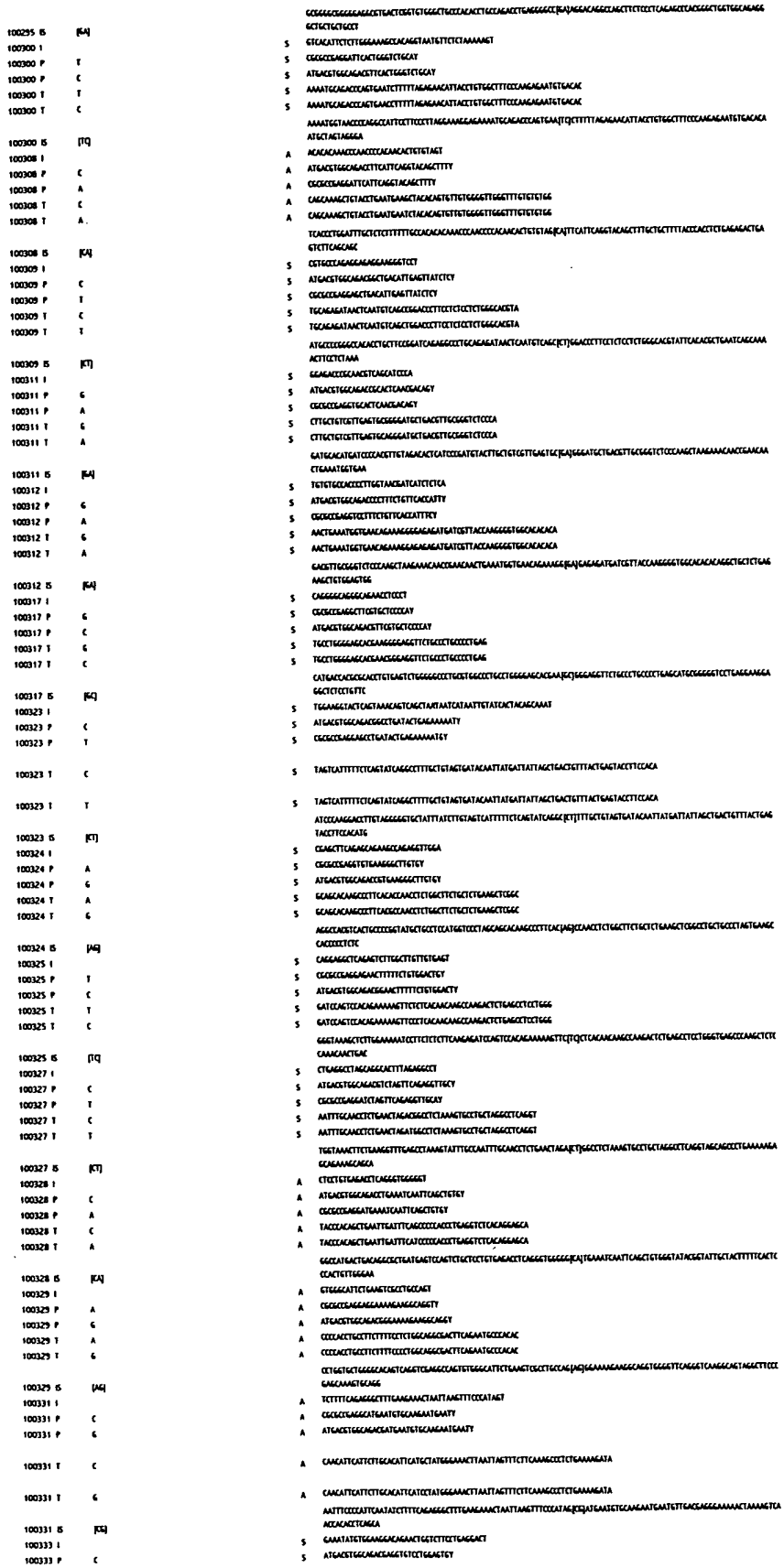


FIGURE 129C



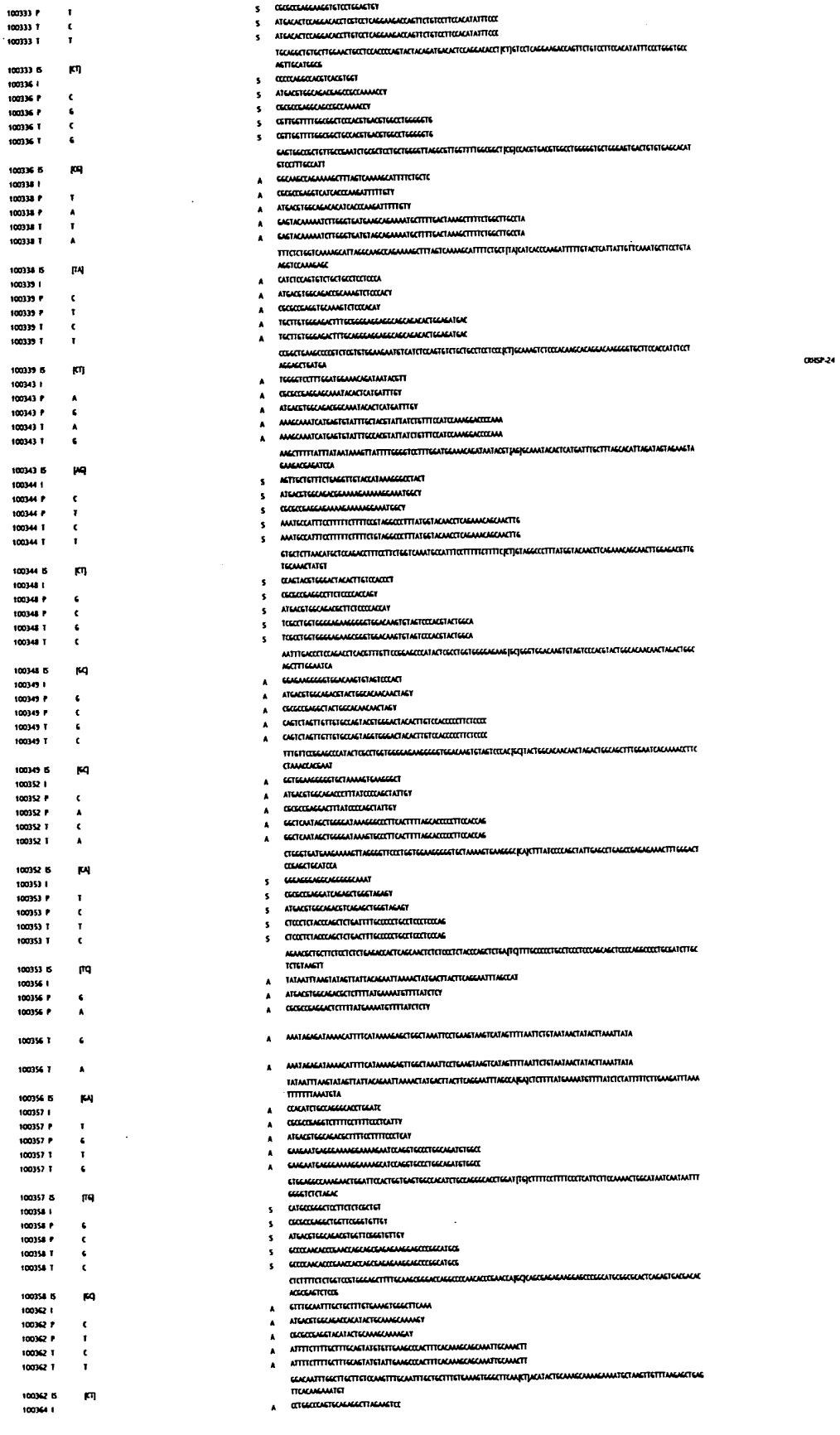

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FIGURE 129C

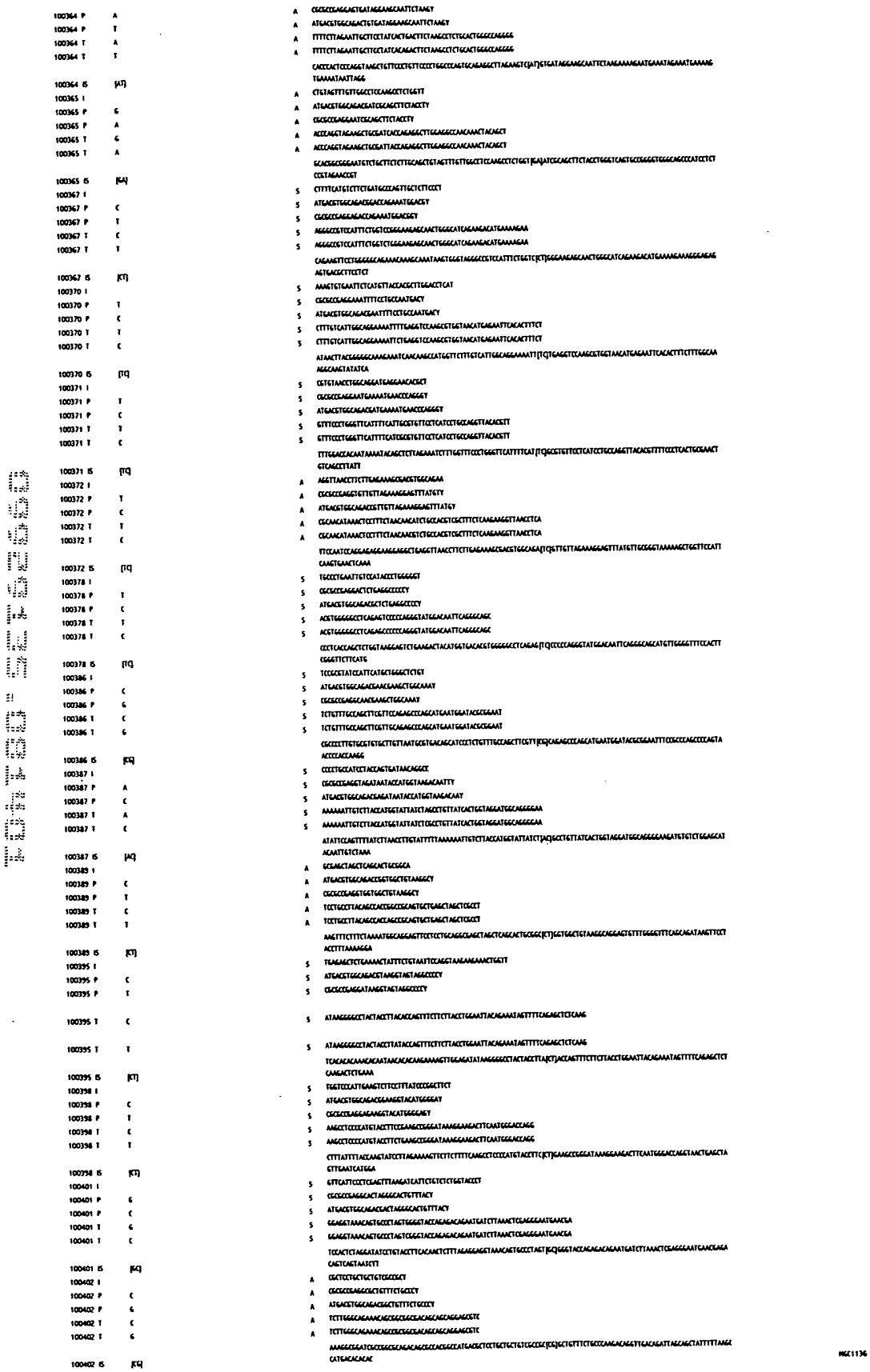


FIGURE 129C

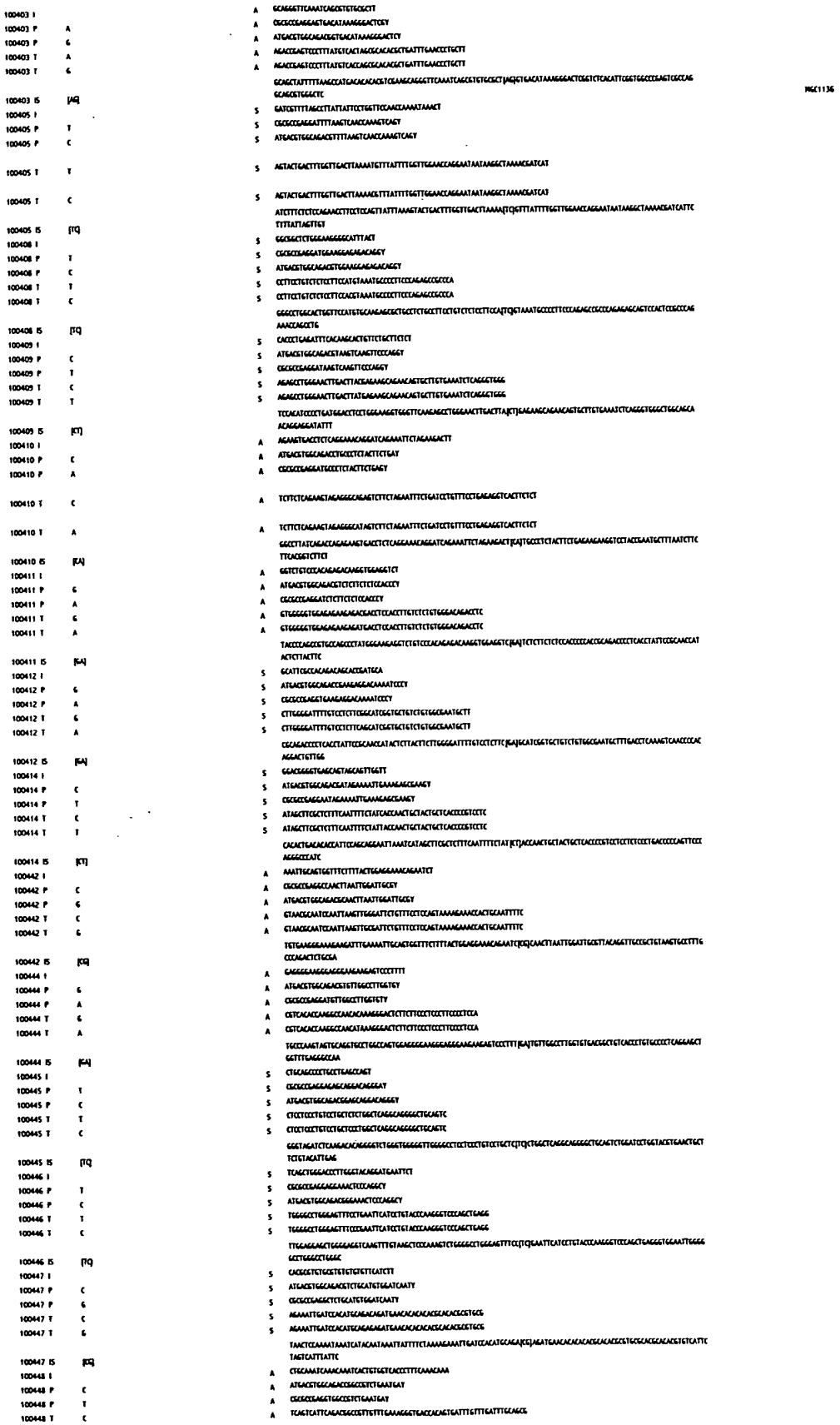


FIGURE 129C

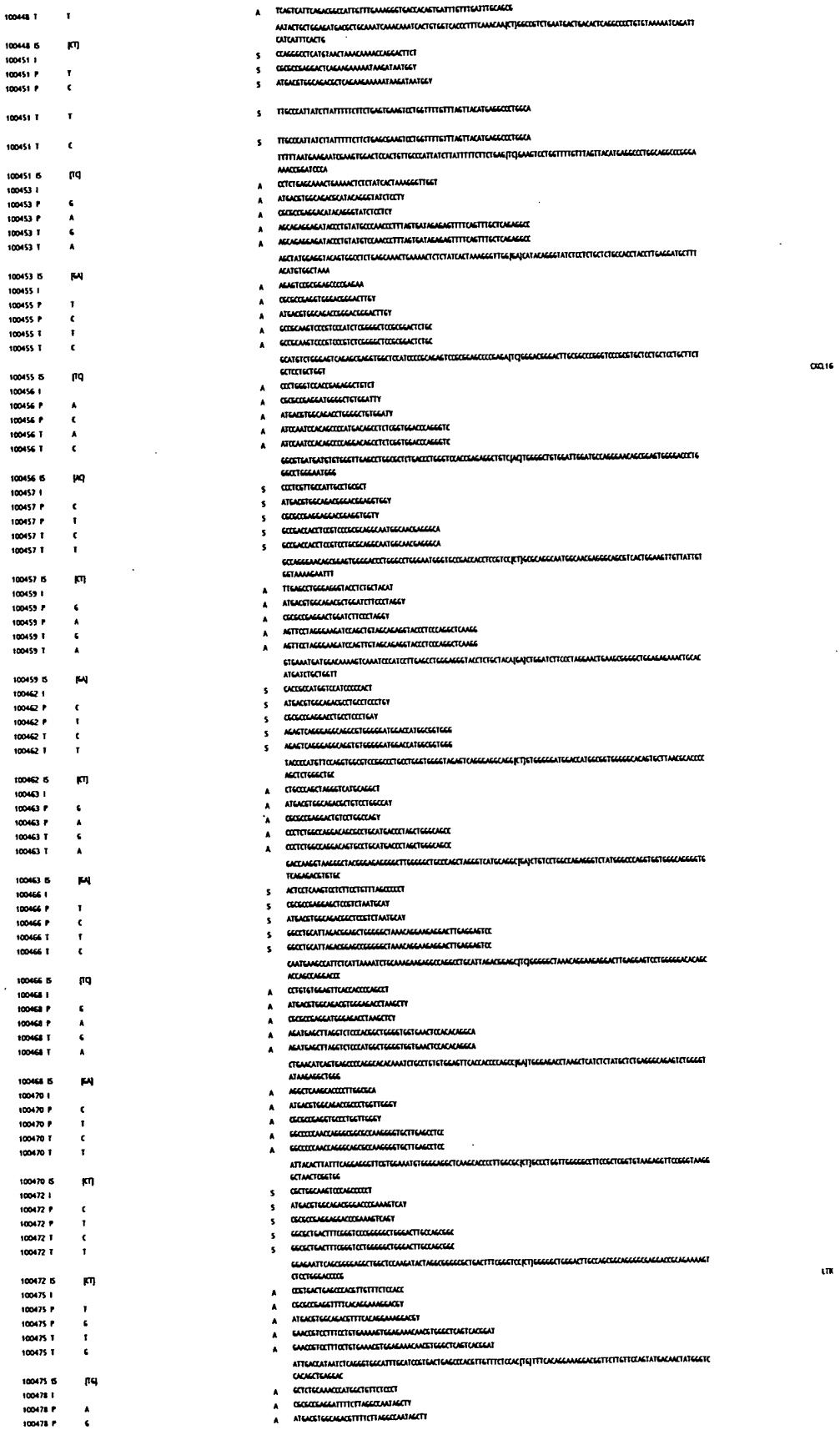


FIGURE 129C

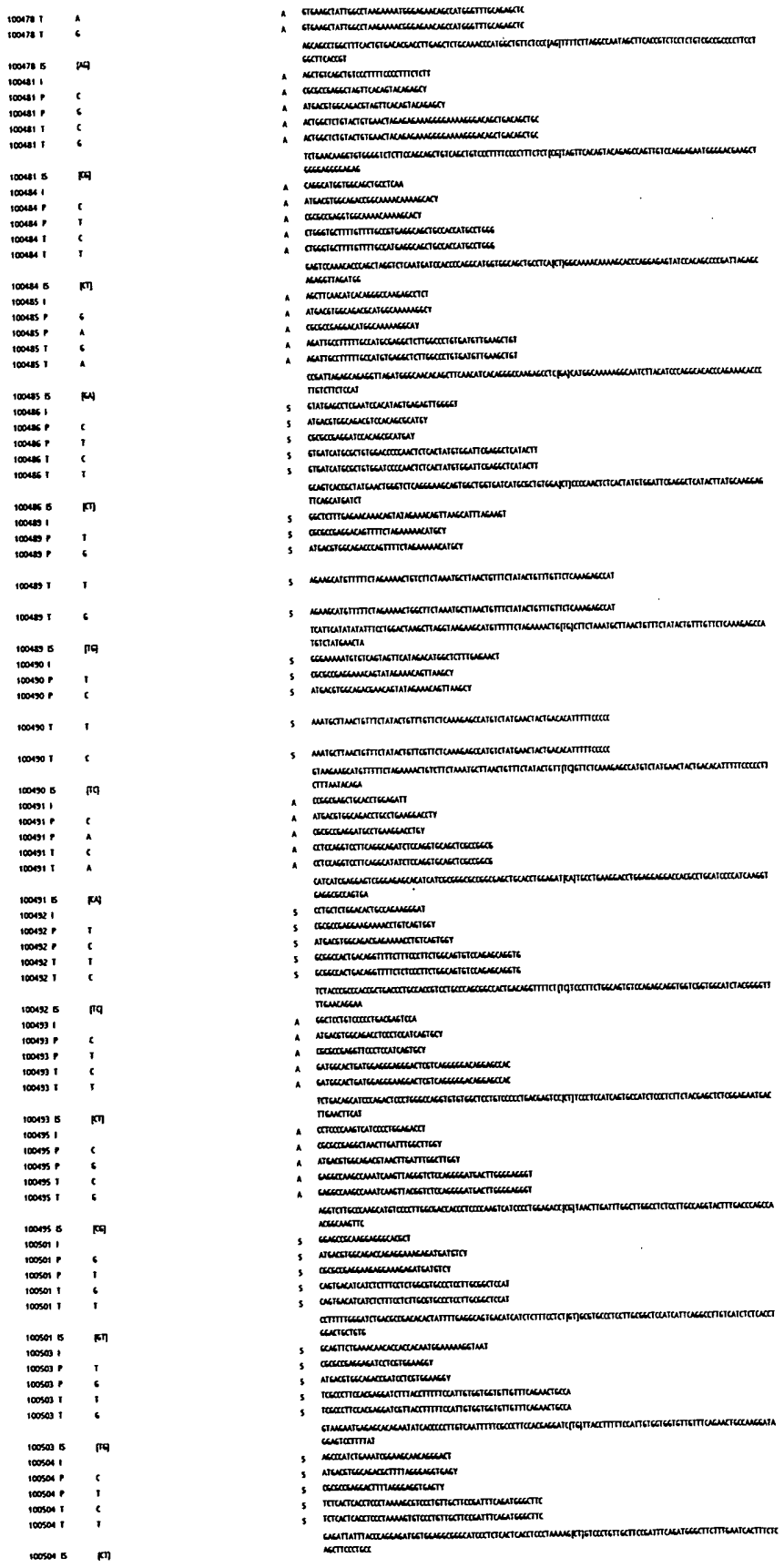


FIGURE 129C

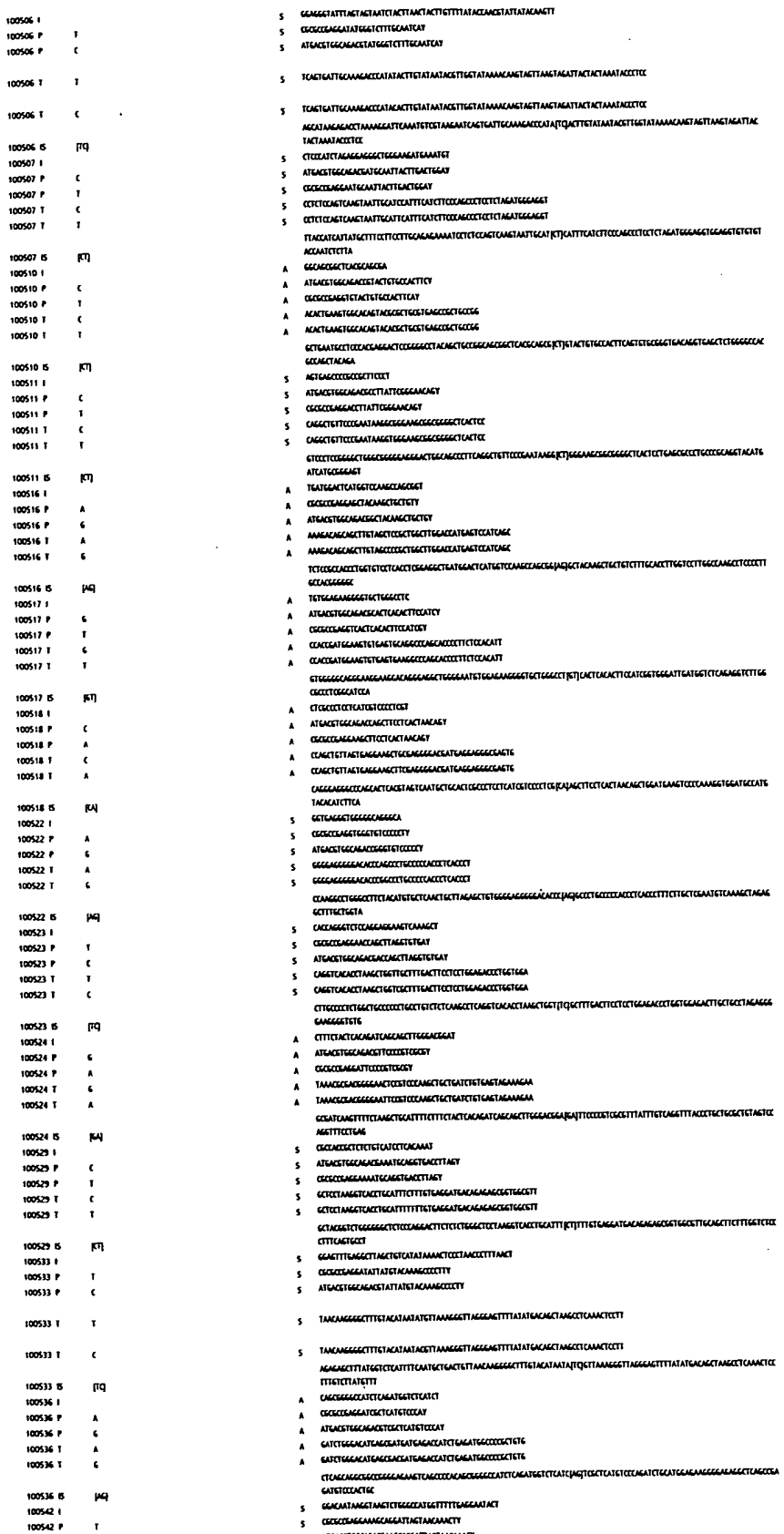


FIGURE 129C

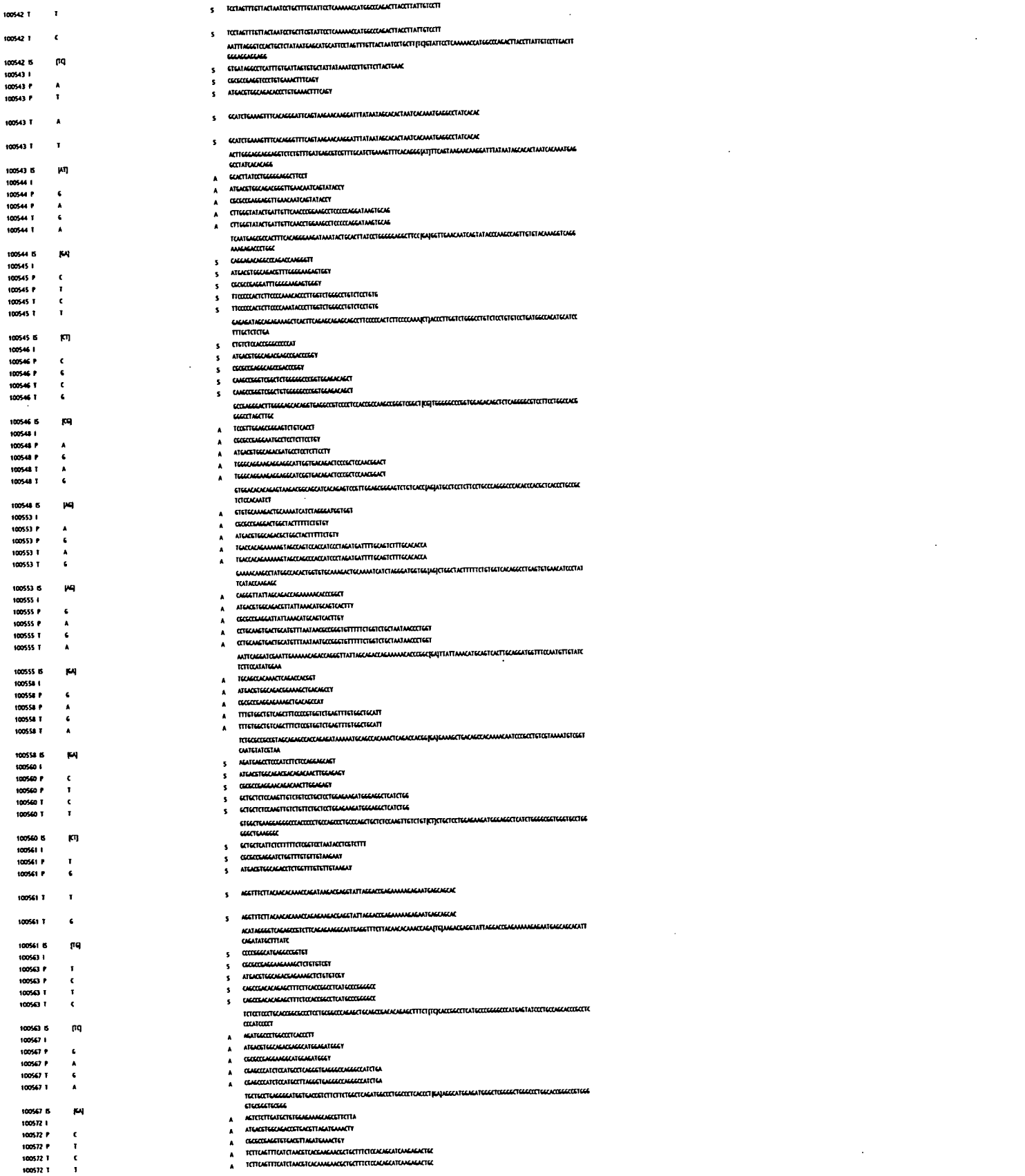


FIGURE 129C

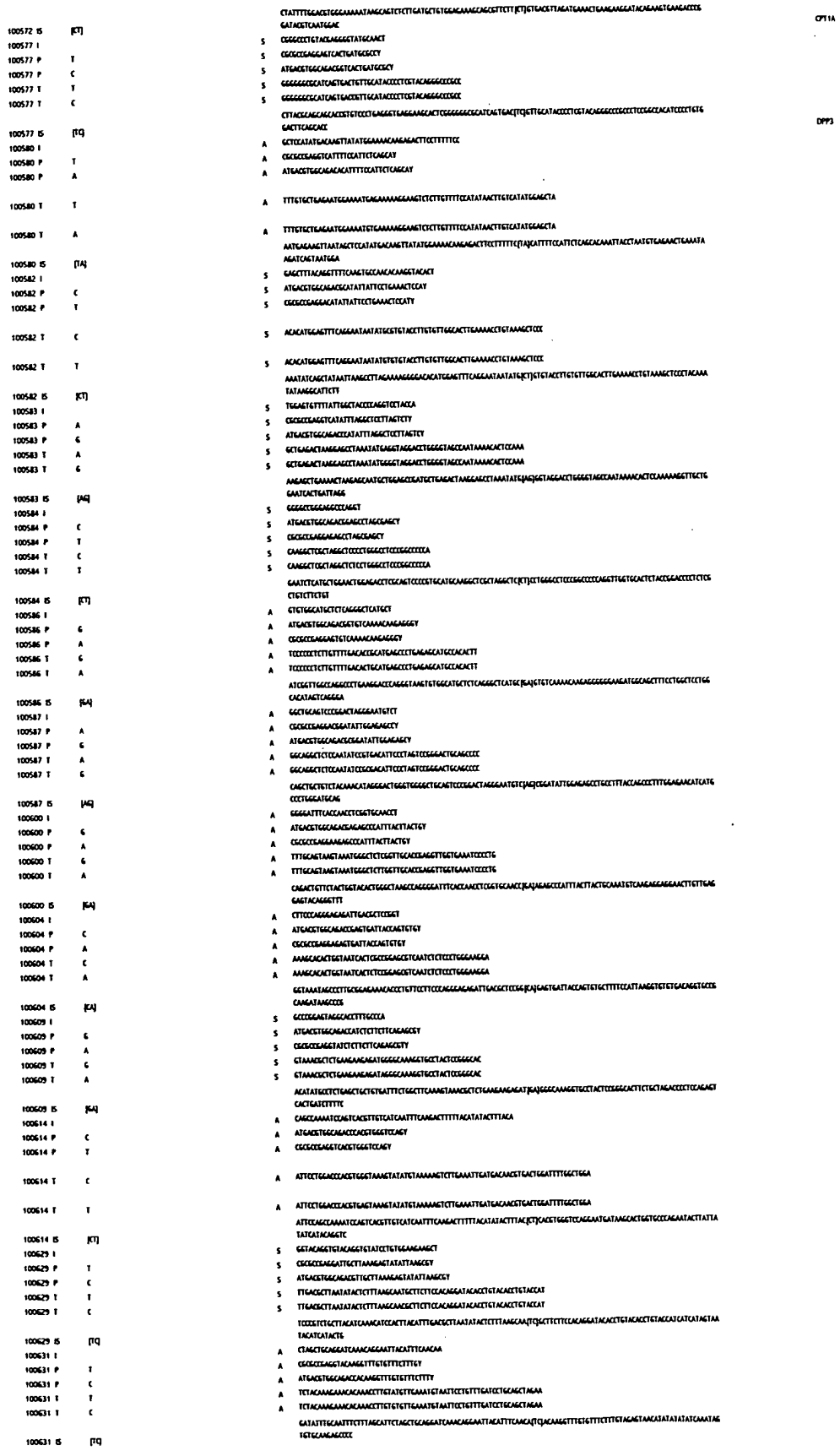


FIGURE 129C

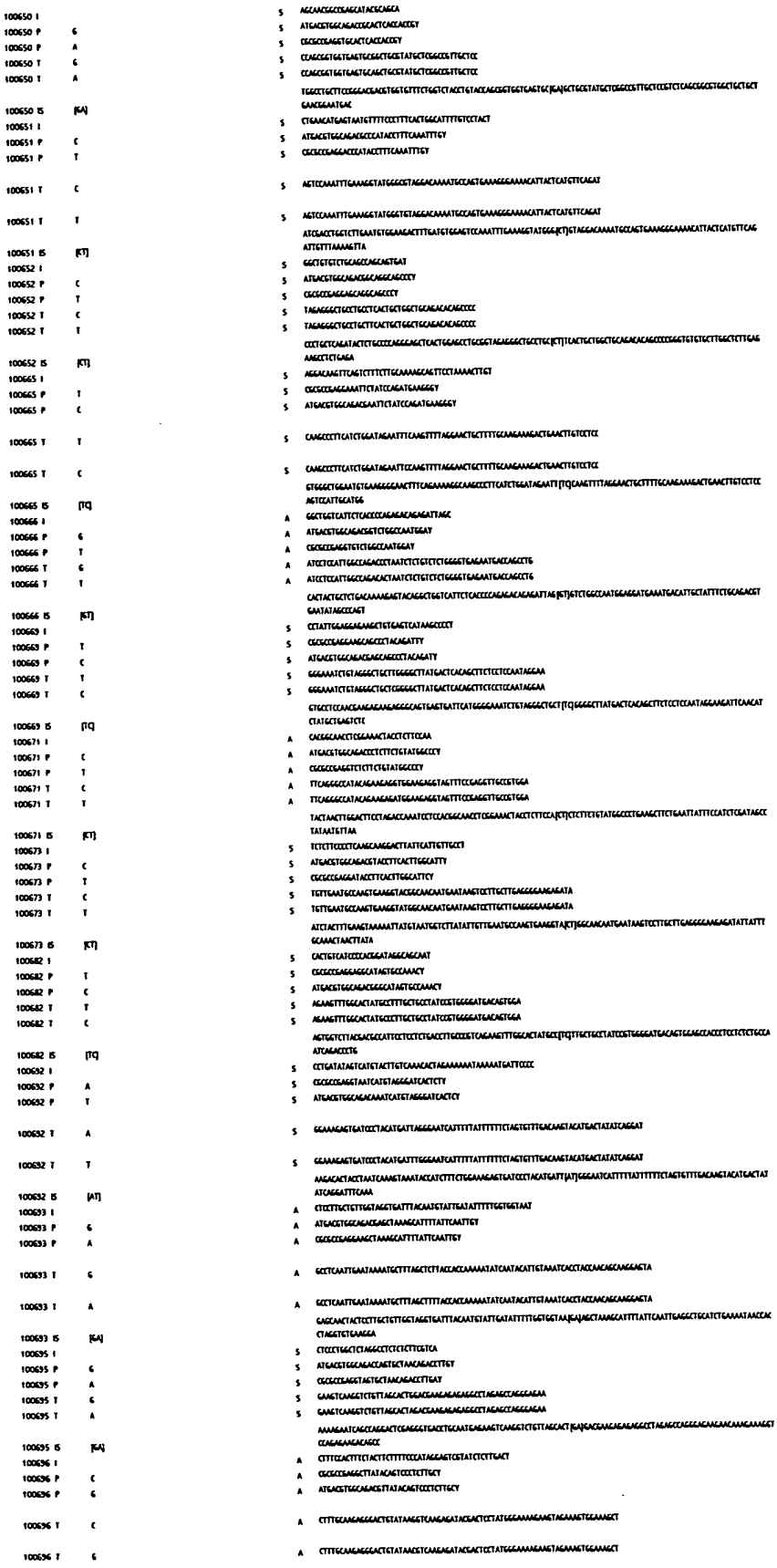


FIGURE 129C

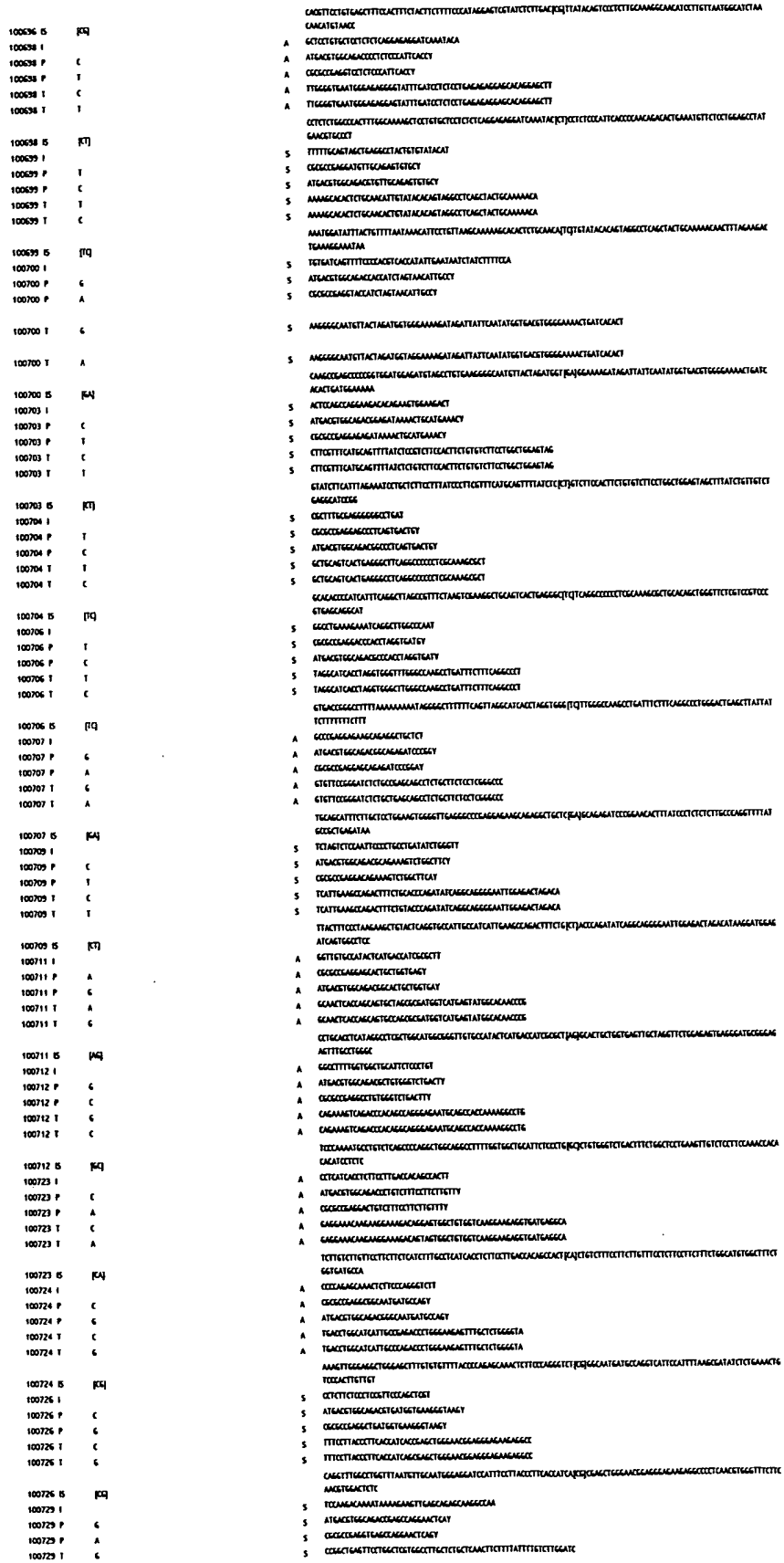
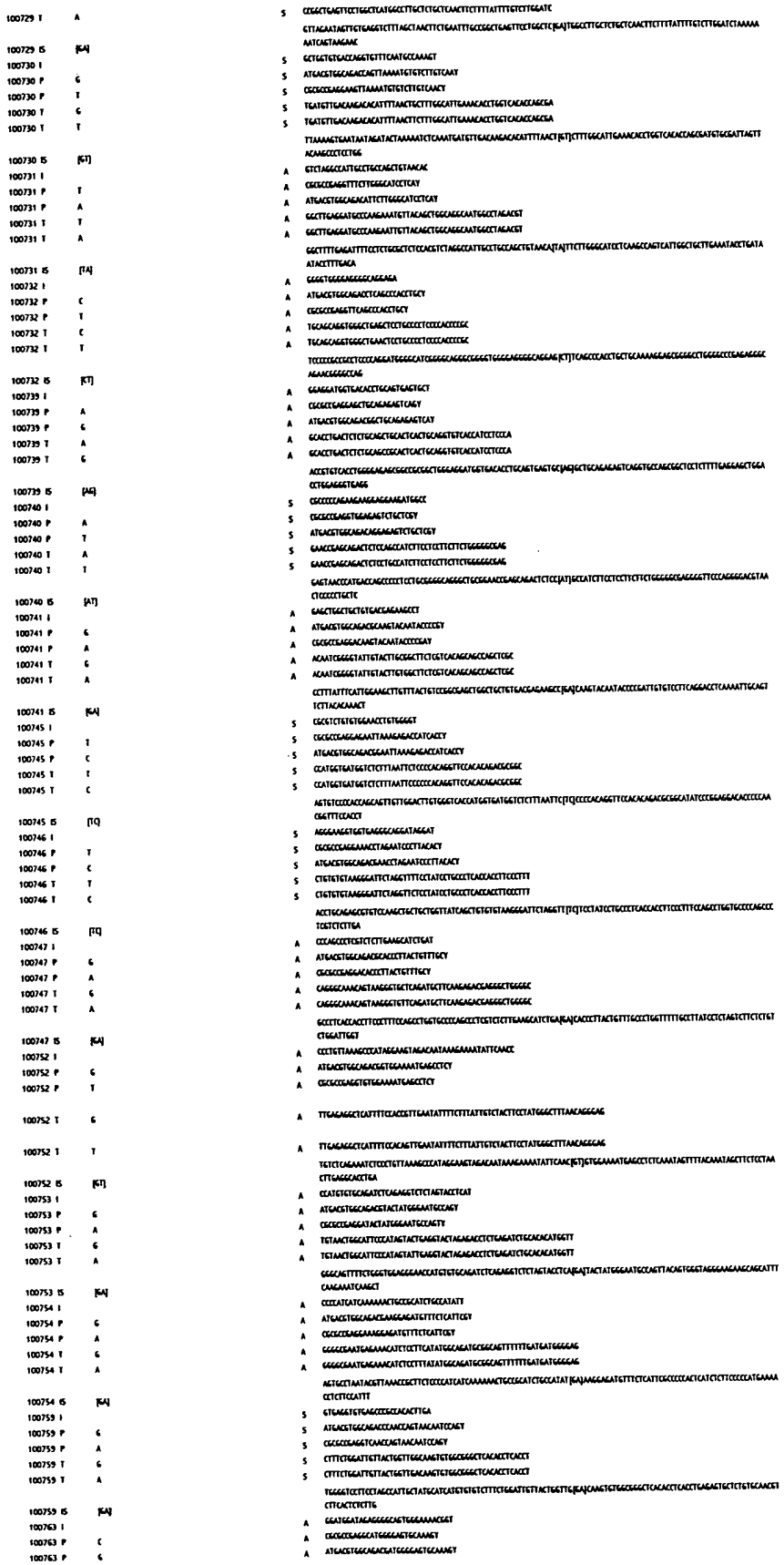


FIGURE 129C



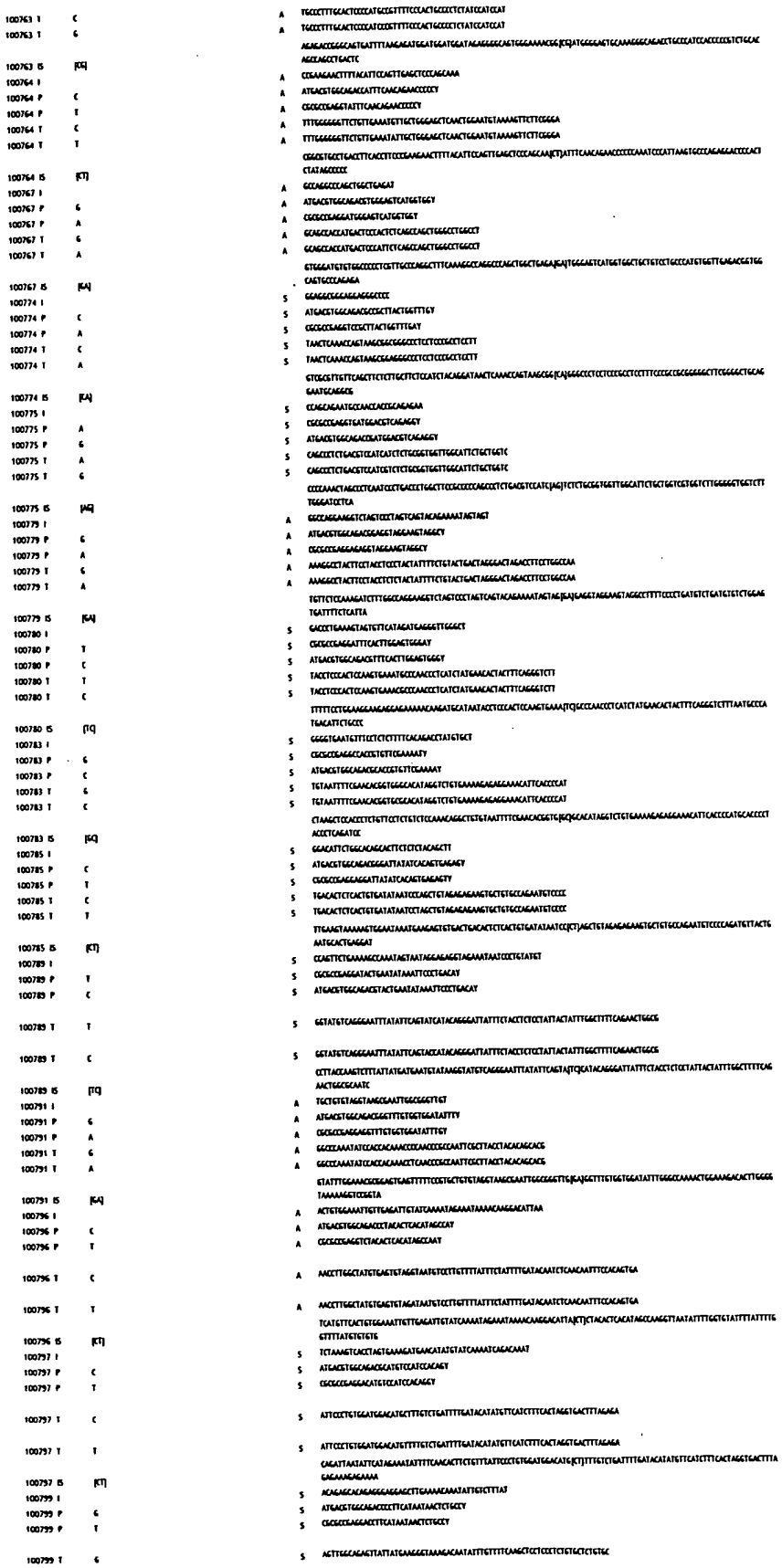
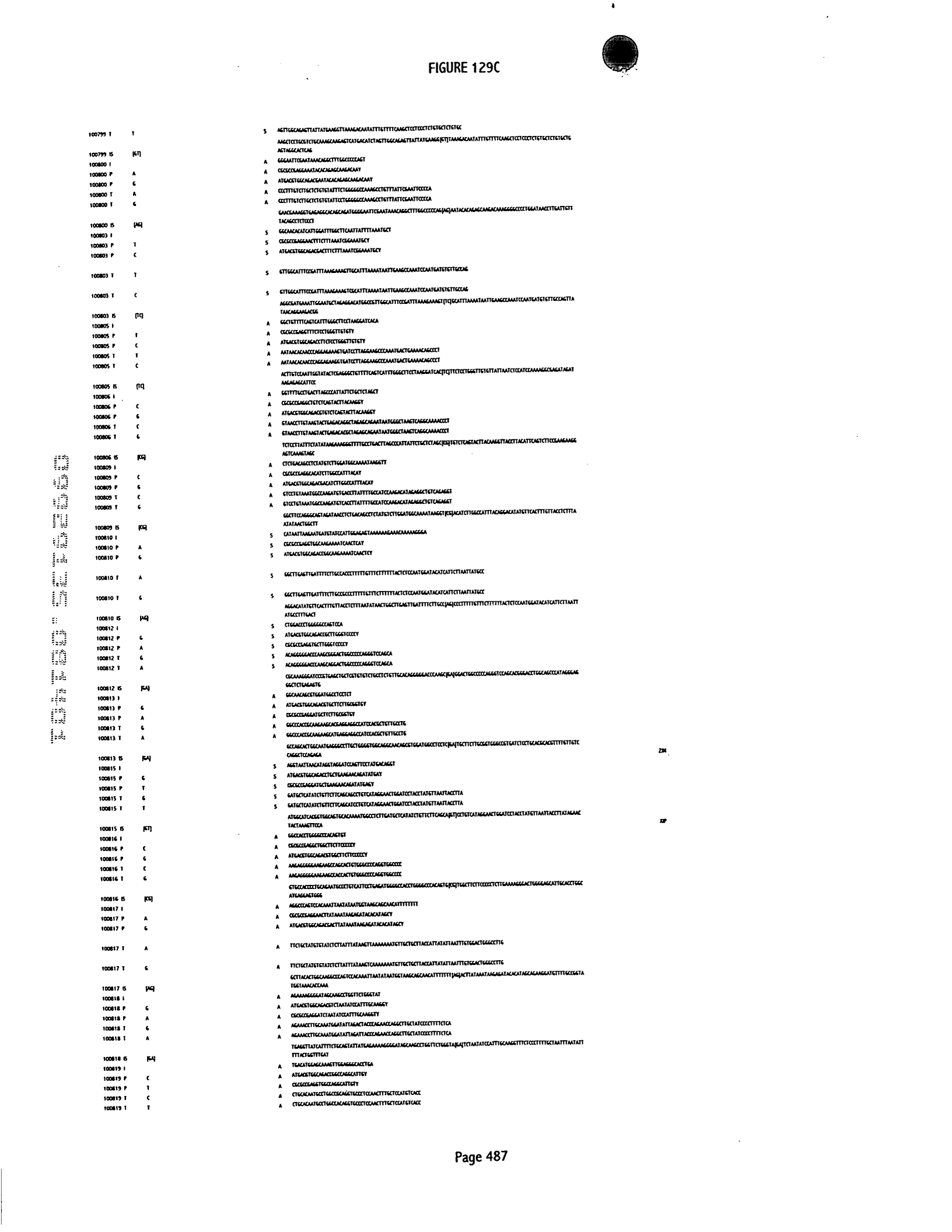


FIGURE 129C



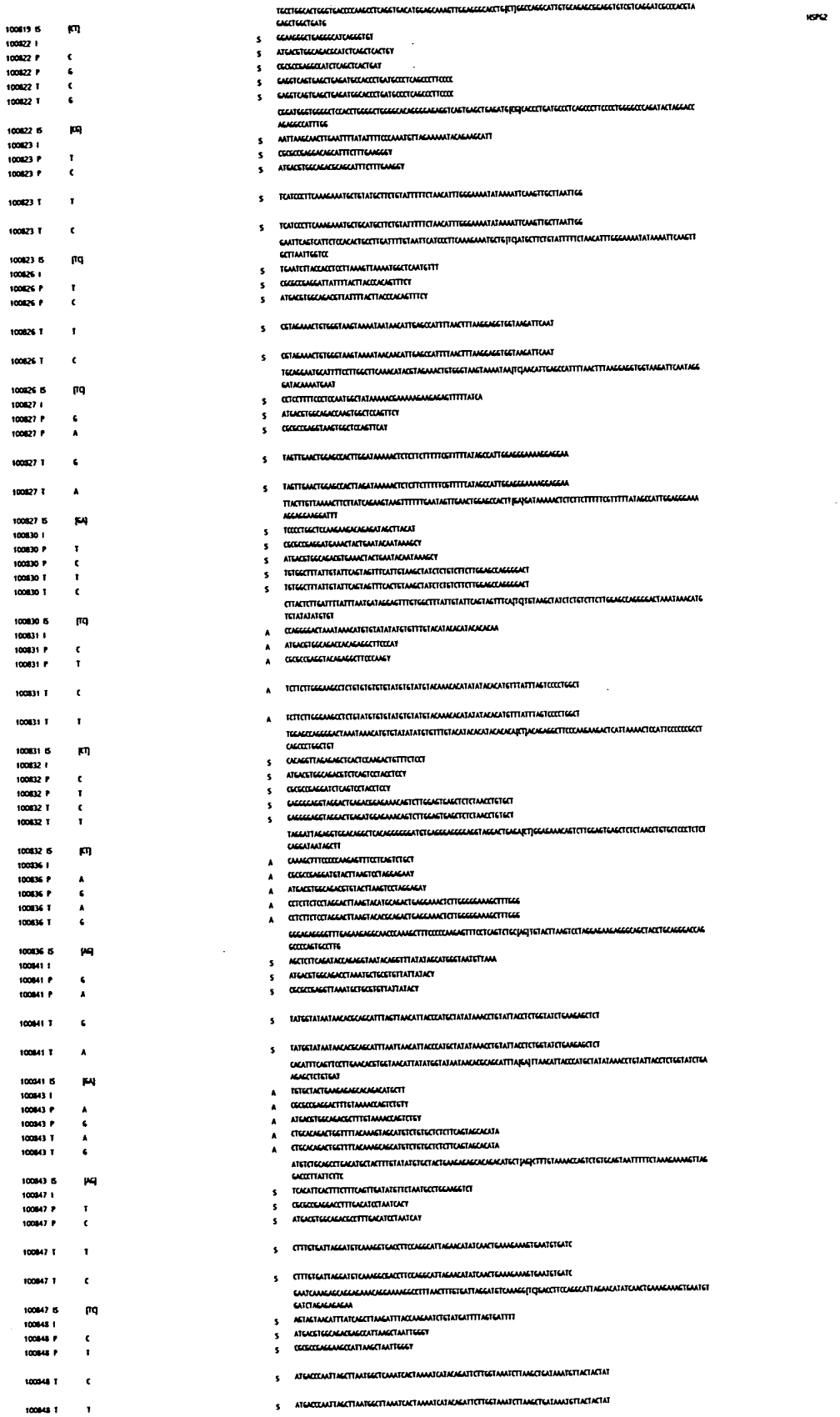


FIGURE 129C

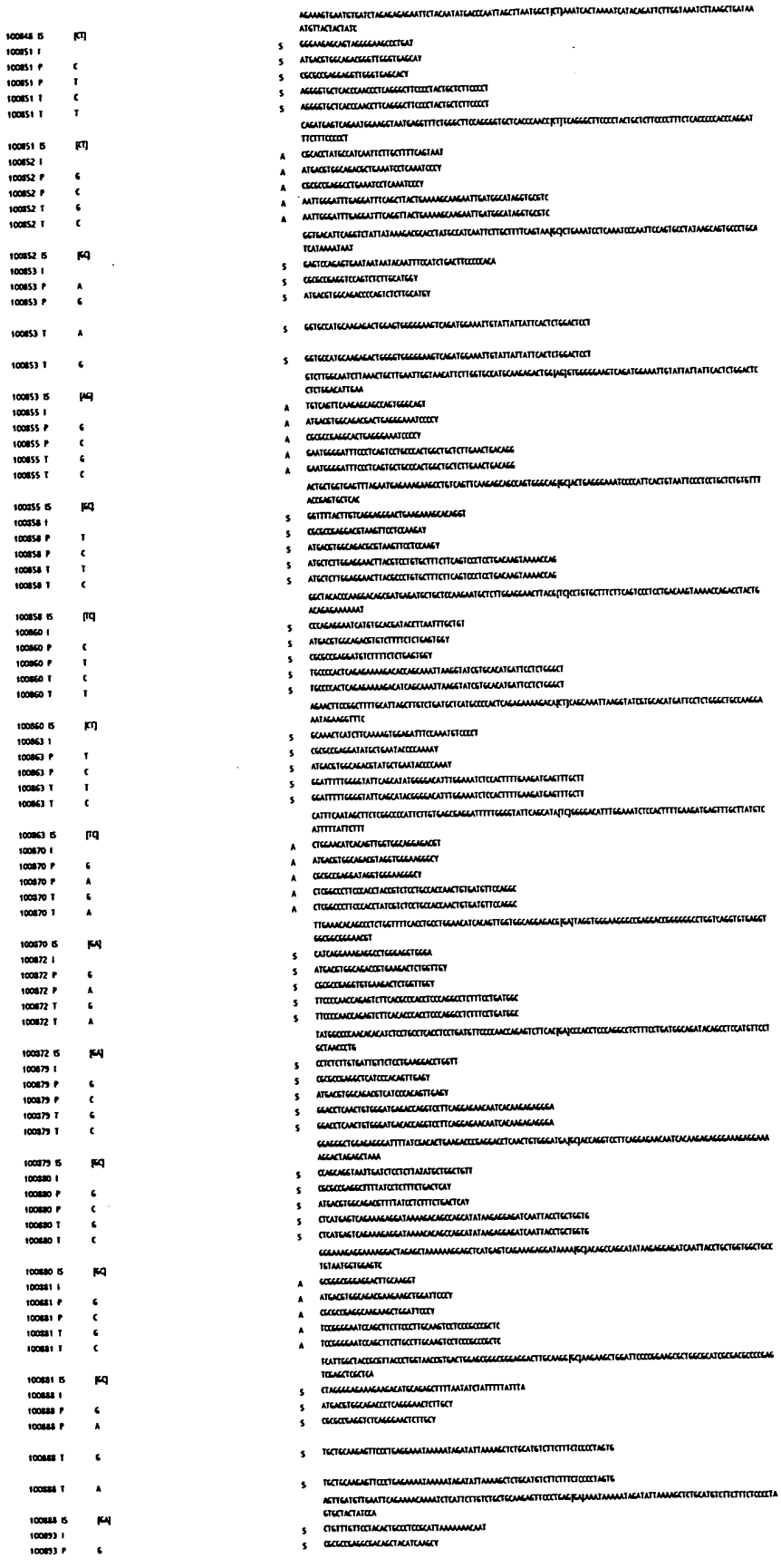


FIGURE 129C

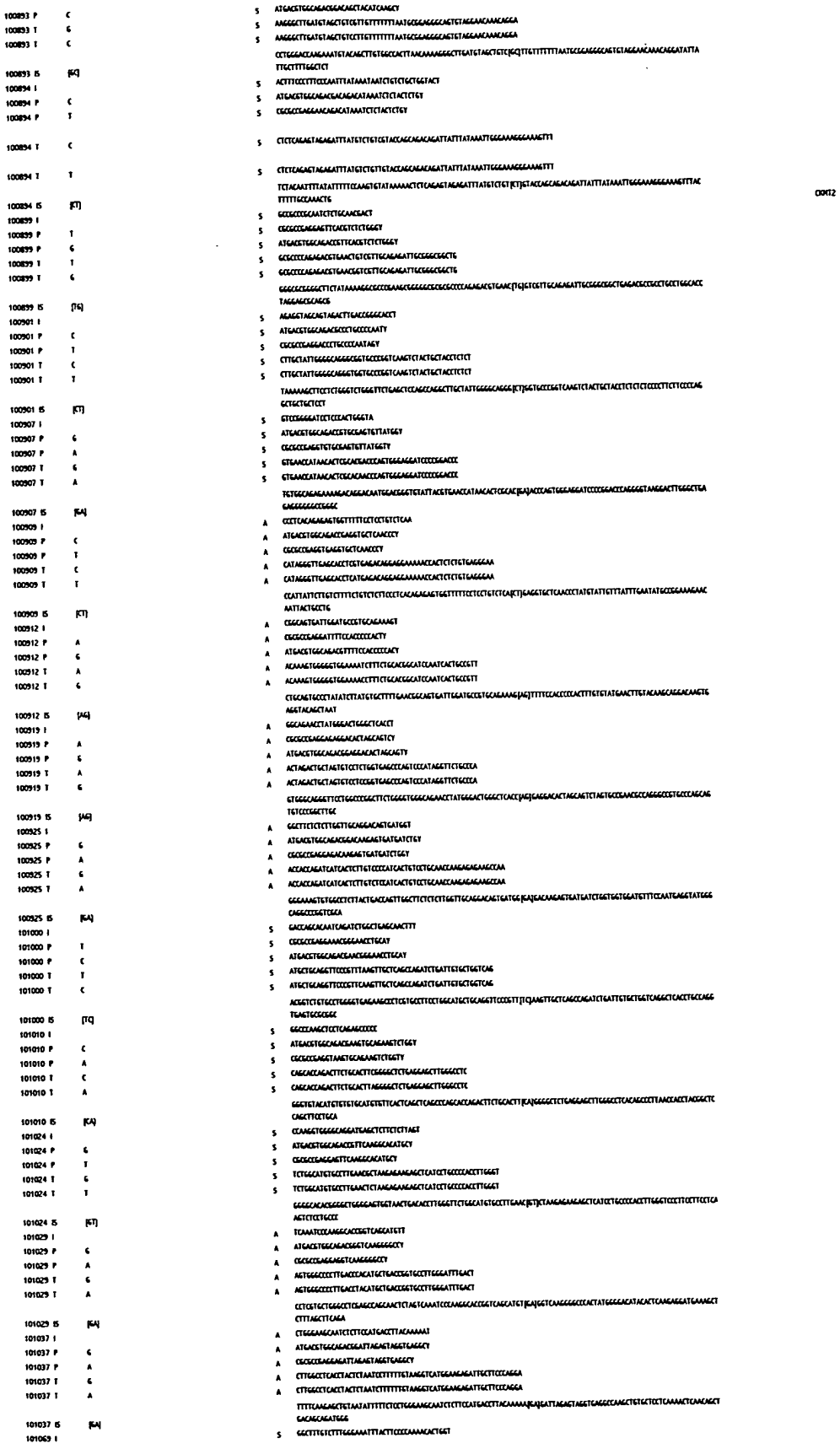
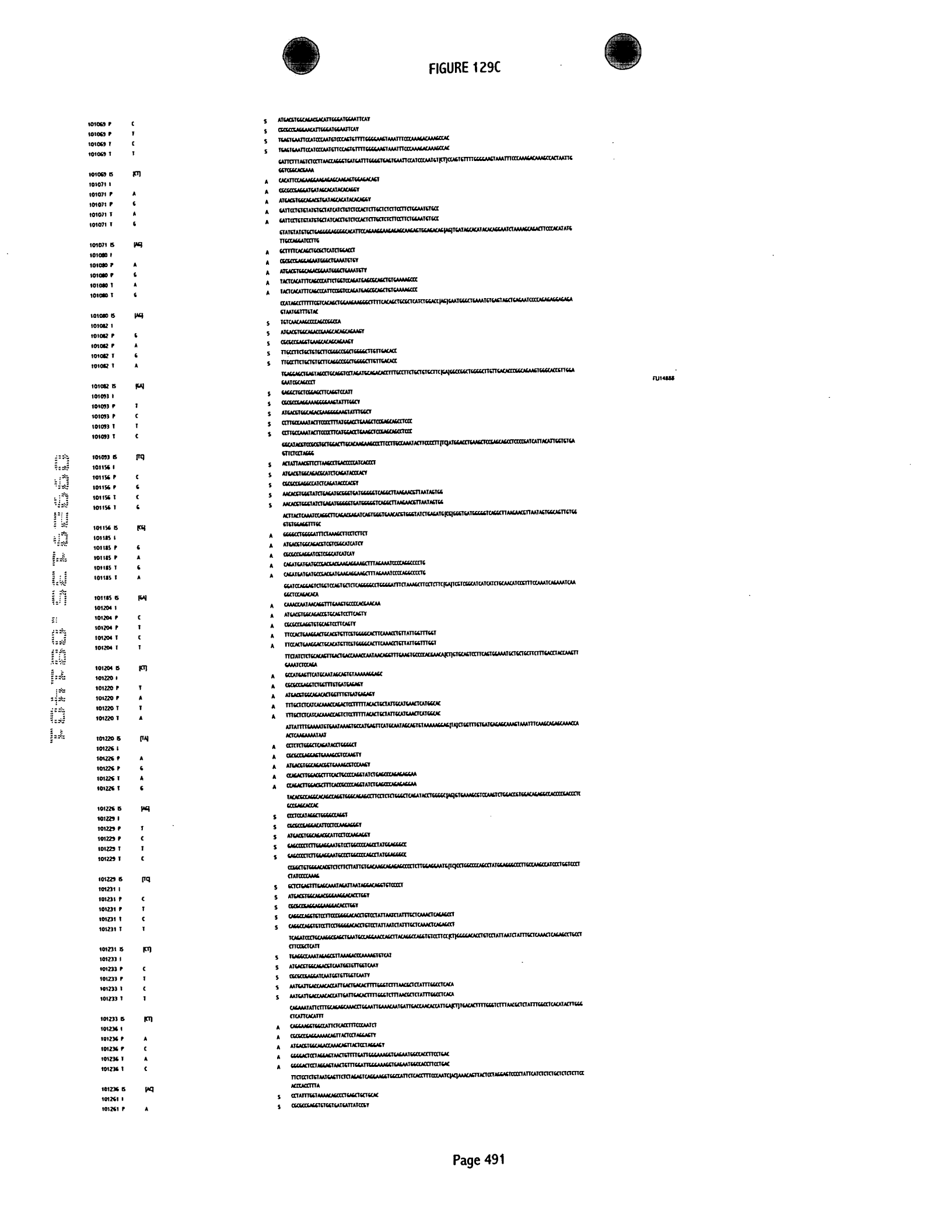


FIGURE 129C


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101069 T C
101069 T T
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101071 P A
101071 P G
101071 T A
101071 T G
101071 IS [AG]
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101082 P A
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101093 IS [TC]
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101185 T G
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101185 IS [GA]
101204 I
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101204 P T
101204 T C
101204 T T
101204 IS [CT]
101220 I
101220 P T
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FIGURE 129C

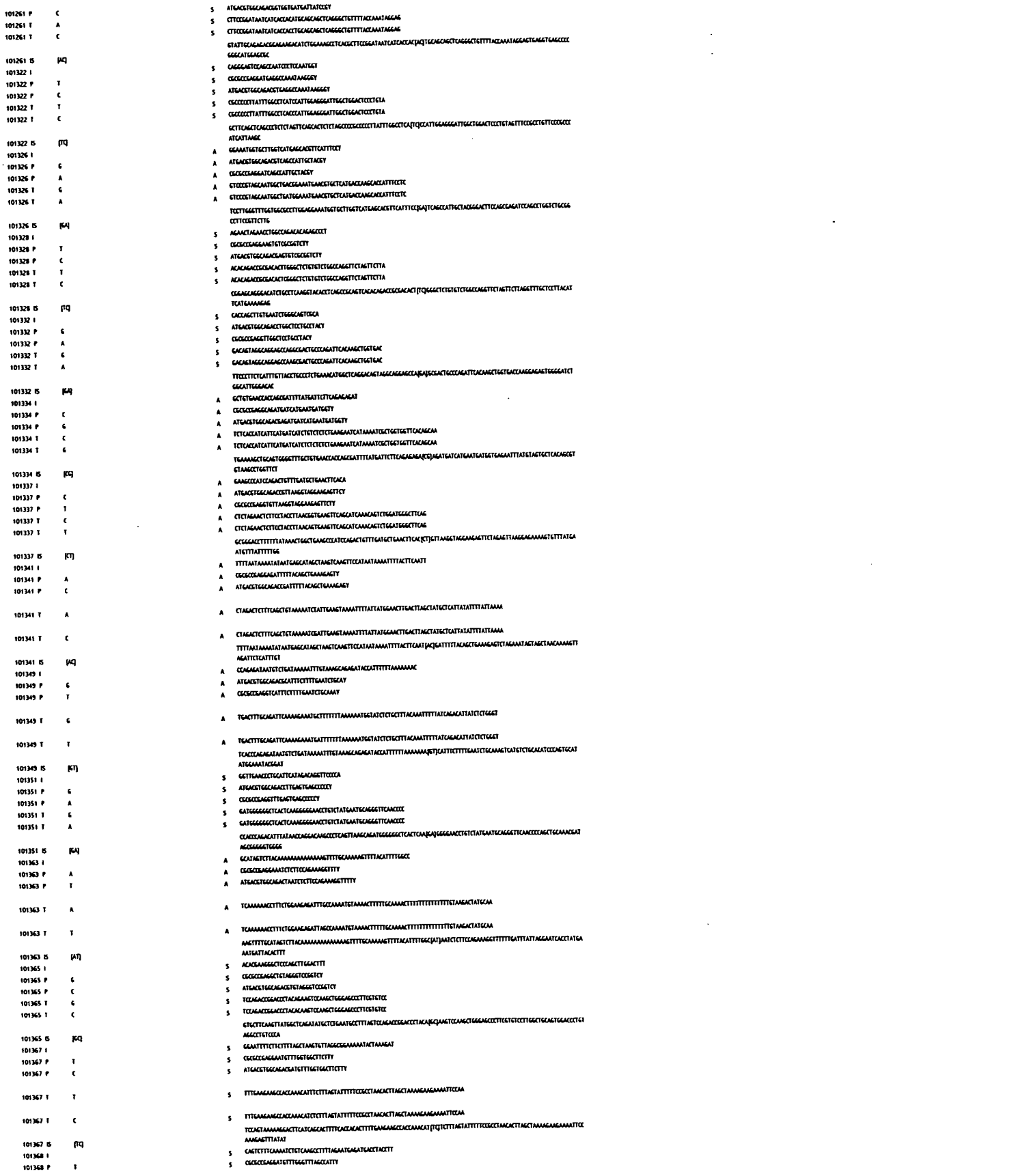


FIGURE 129C

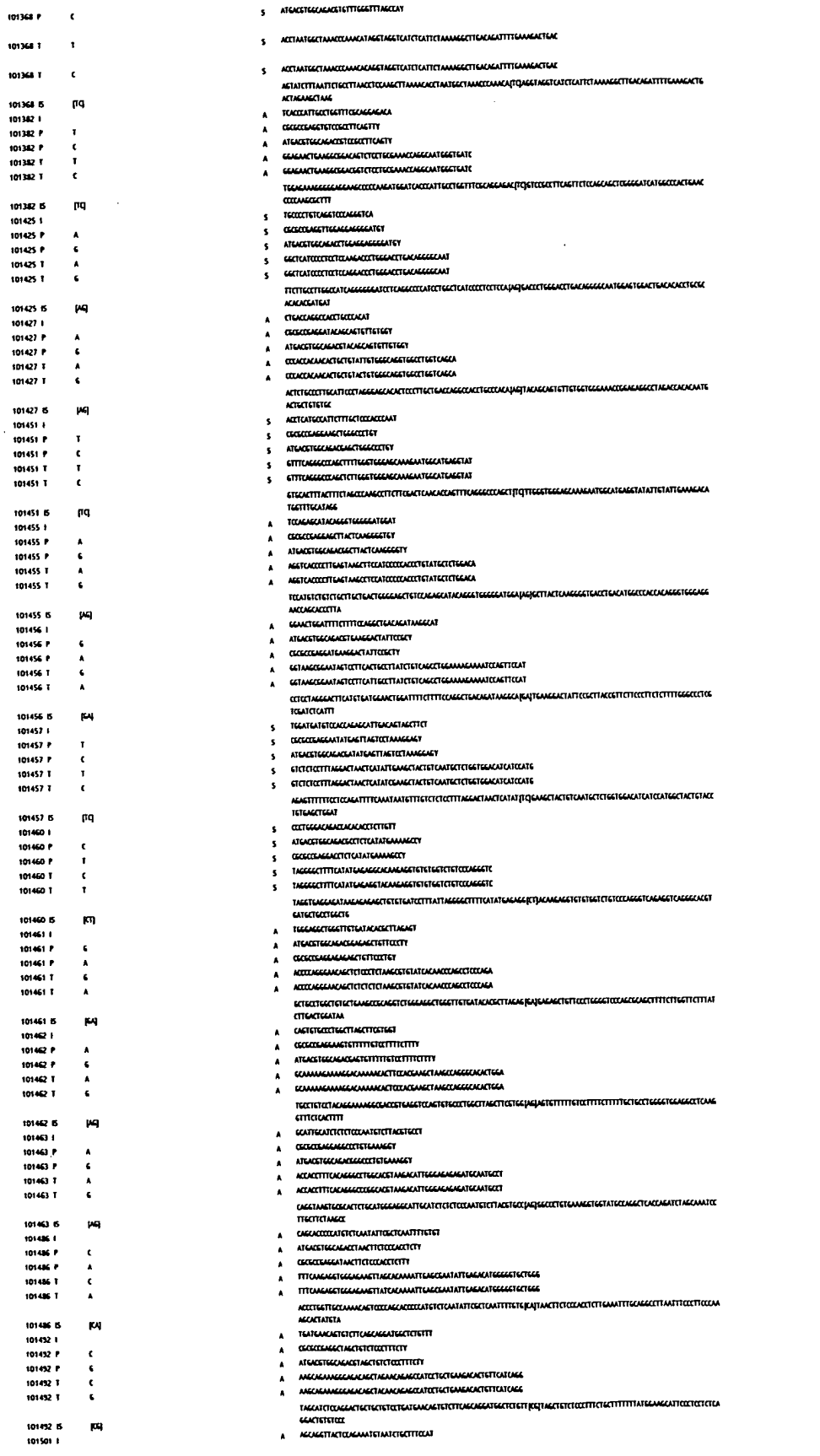


FIGURE 129C

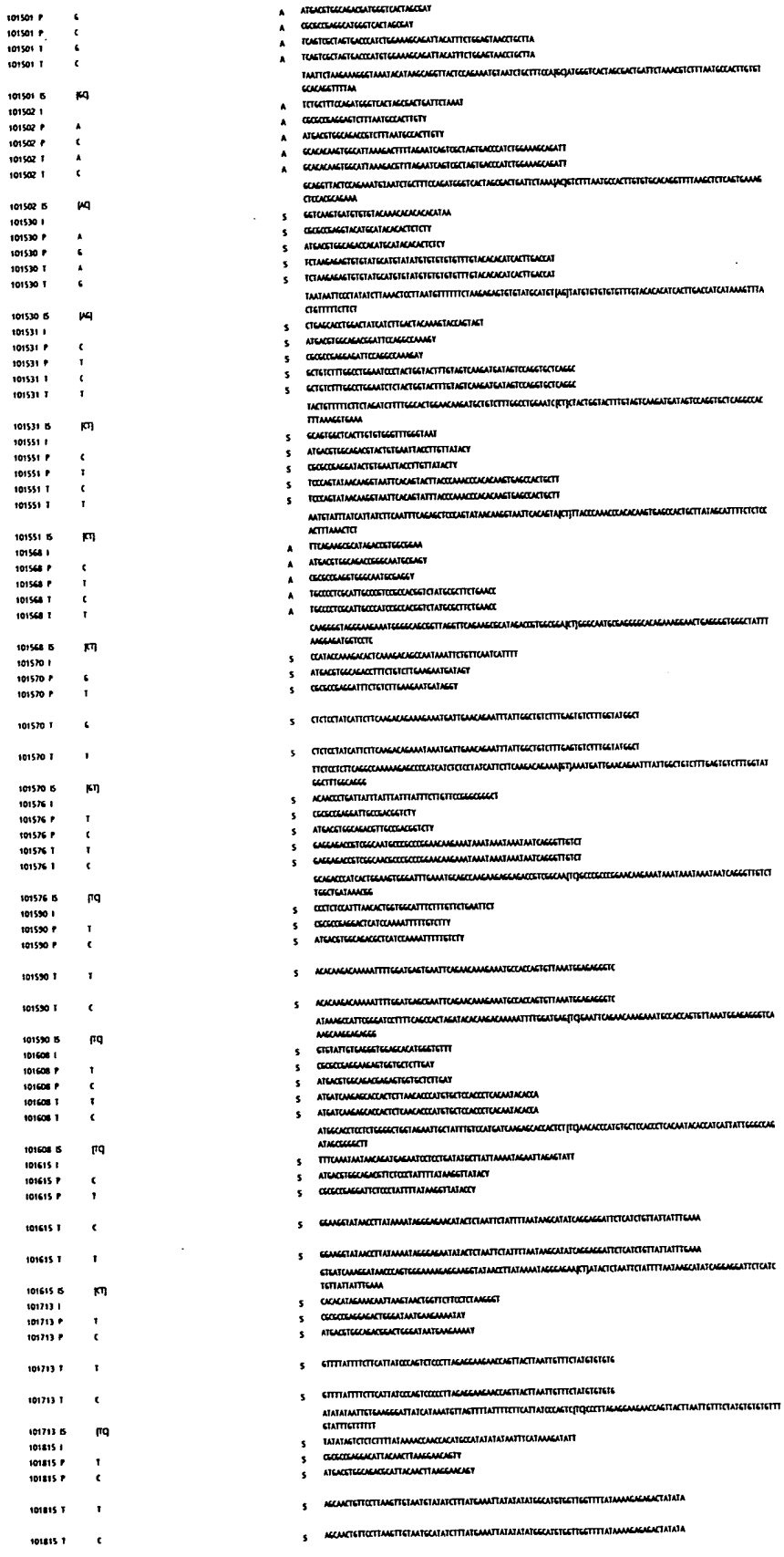


FIGURE 129C

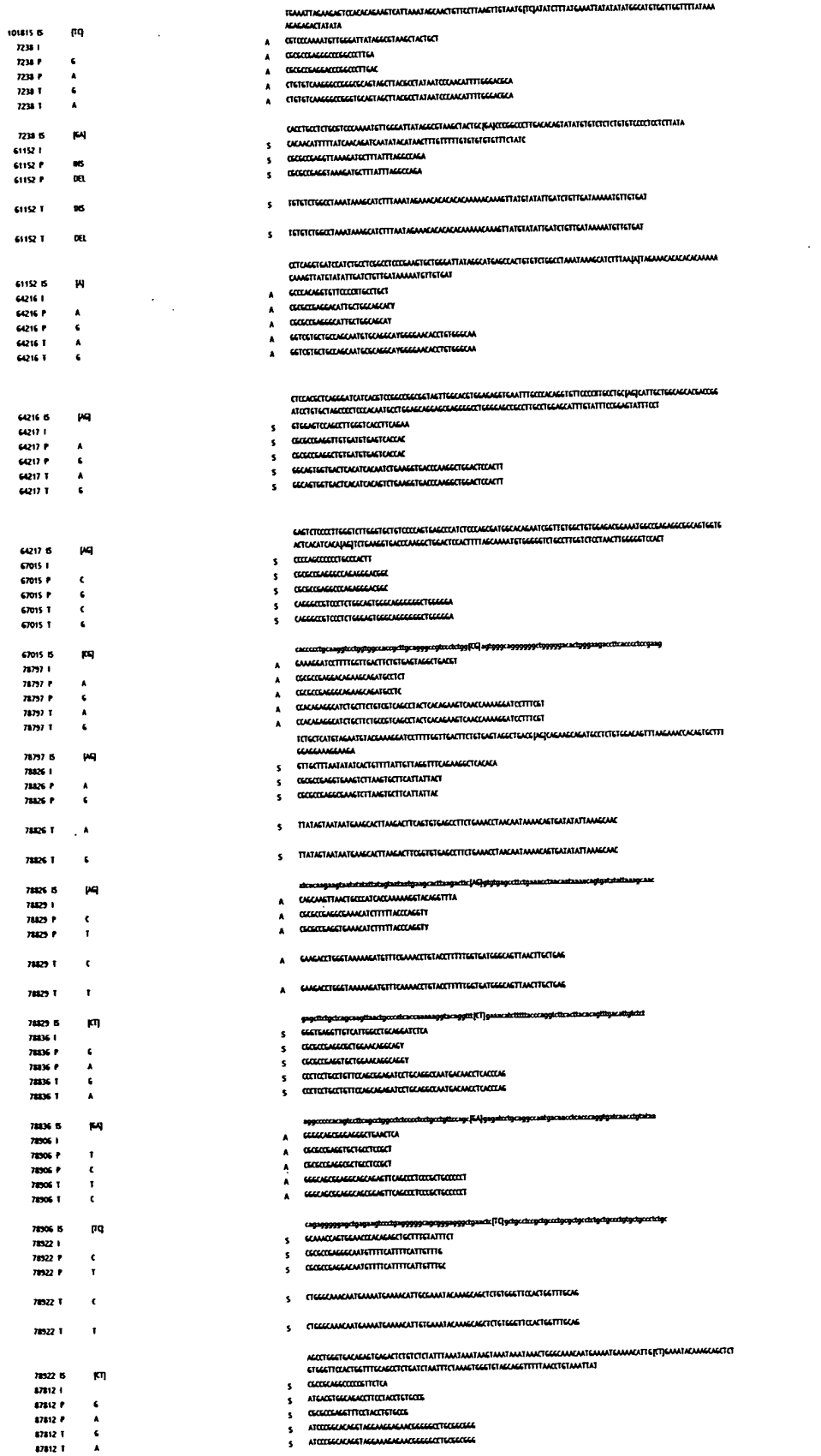


FIGURE 129C

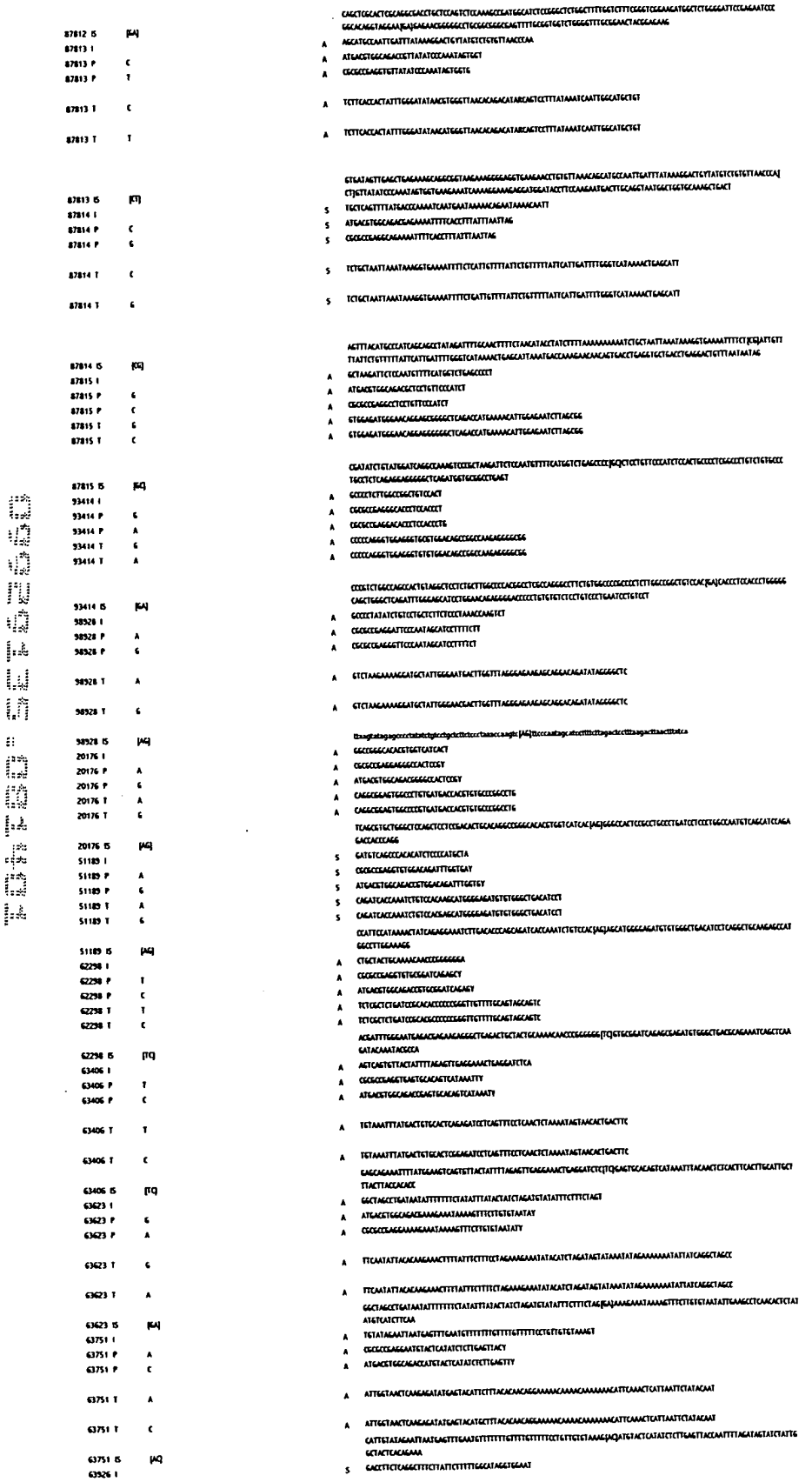


FIGURE 129C

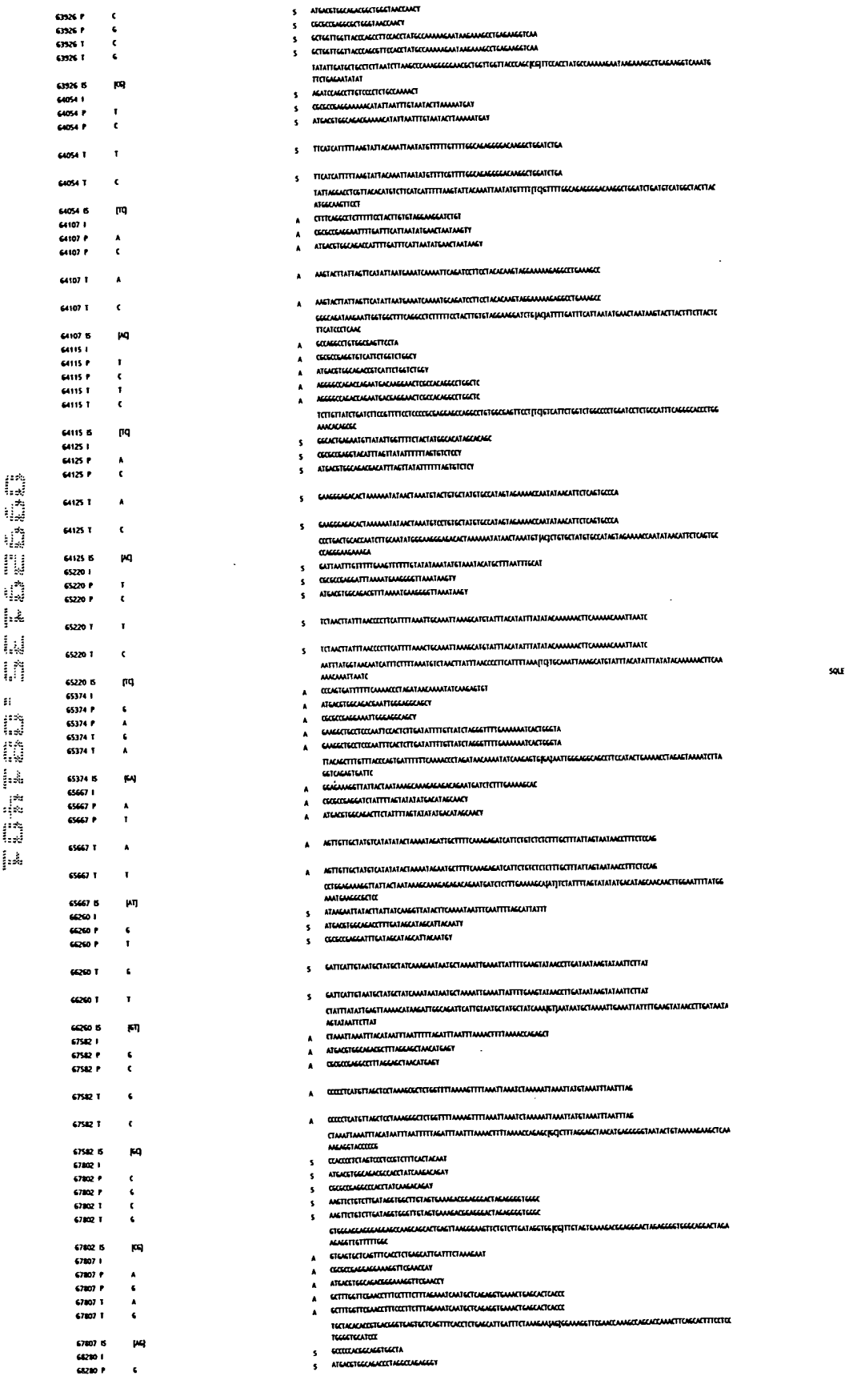


FIGURE 129C

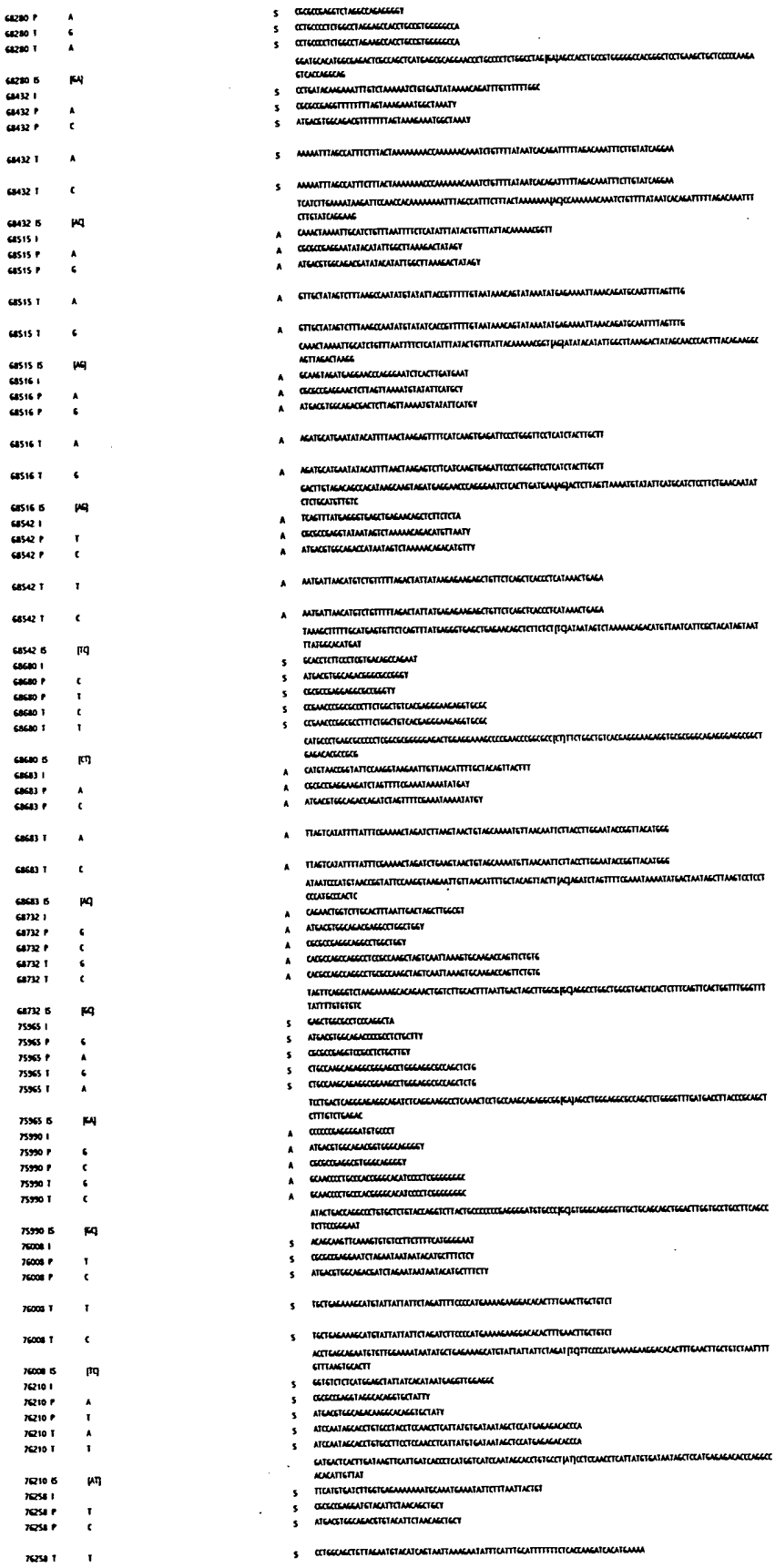
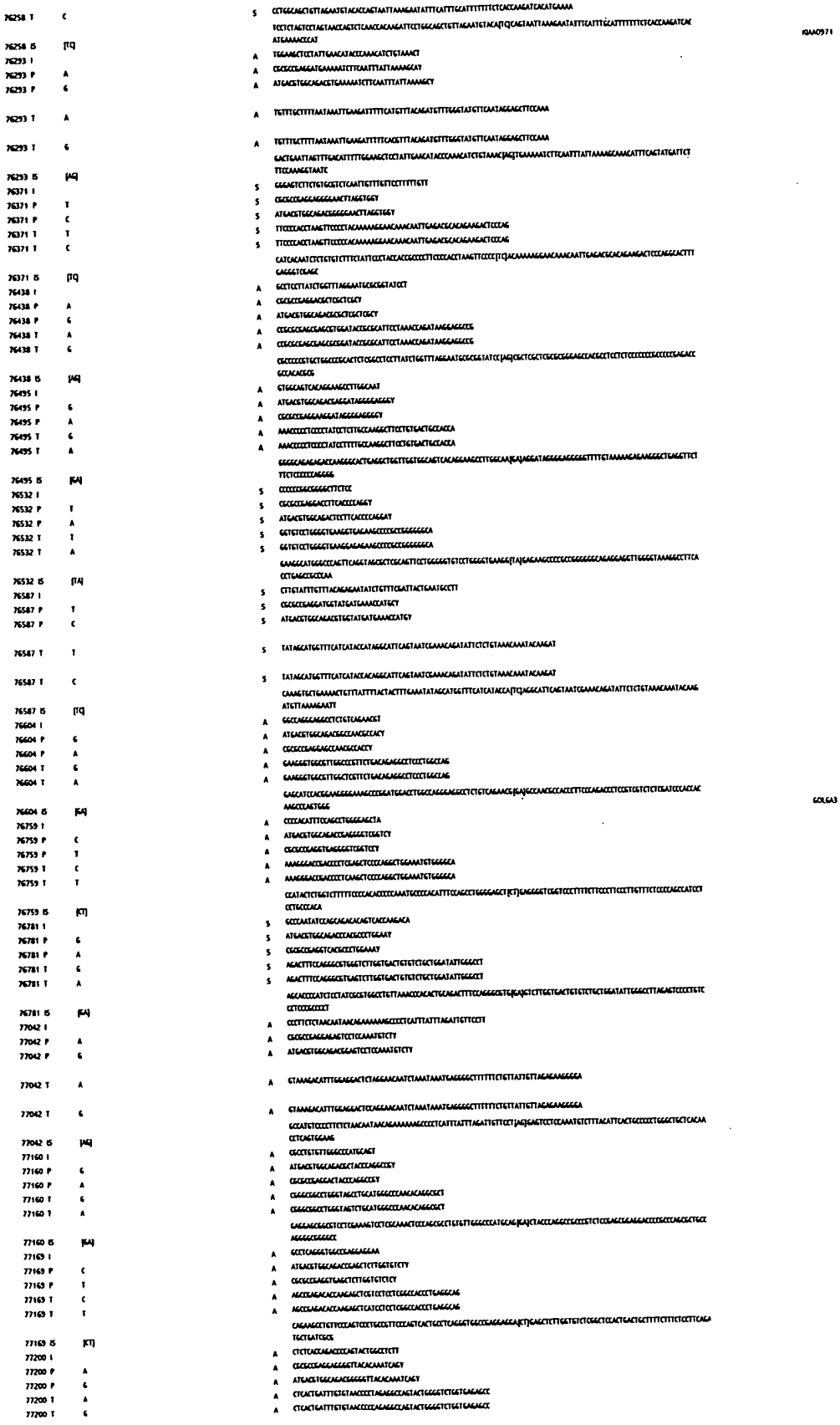


FIGURE 129C





Sequence Listing

			TCCCTCCCTCTTCCCCCCCCCAATGCCACTGGGCTCTCACCAGACCCCAGTACTGGCCTCT[AG]GGGGTTACACAAATCAGTGAGTGAAAAGCTGGCCCTCCCTCCACCCGCC
77200 IS	[AG]		CCTCCTCCCTG
77239 I		S	AATAAATAACAATATTTAAAGATATTTTTCCAGTCTTACCATGCAATTATTGATACCAAT
77239 P	G	S	ATGACCTGGCAGACCTGGACTAAGGAAACATTATTTGY
77239 P	T	S	CGCGCCCAGGATGGACTAAGGAAACATTATTTGY
77239 T	G	S	TGTCCAAATAATGTTTCCTTAGTCCAGTTGGTATCAATAATTGCATGGTAAGACTGGAAAAATATCTTTAAAATATTGTTATTTATT
77239 T	T	S	TGTCCAAATAATGTTTCCTTAGTCCATTTGGTATCAATAATTGCATGGTAAGACTGGAAAAATATCTTTAAAATATTGTTATTTATT
77239 IS	[GT]		CAATAAAAATGAATGCATATTTTATATTTTCTGTTGTCCAAATAATGTTTCCTTAGTCCA[GT]TTGGTATCAATAATTGCATGGTAAGACTGGAAAAATATCTTTAAAA TATTGTTATTTATT
77253 I		A	AGAAACTGGTGTTTTCTGTTTTATTTGGCAAAATGACAGCATGTTCATACT
77253 P	A	A	CGCGCCAGGACTGCAGCTATAAAACTGTCY
77253 P	G	A	ATGACCTGGCAGACGCTGCAGCTATAAAACTGTY
77253 T	A	A	TCAGGACAGTTTTATAGCTGCAGTGTATGAACATGCTGTCATTTTGCCAAATAAAACAGAAACACCAGTTTCTCA
77253 T	G	A	TCAGGACAGTTTTATAGCTGCAGCGTATGAACATGCTGTCATTTTGCCAAATAAAACAGAAACACCAGTTTCTCA
77253 IS	[AG]		GCATCCTCCTGAGAAACTGGTGTTTCTGTTTTATTTGGCAAAATGACAGCATGTTCATACT[AG]CTGCAGCTATAAAACTGTCCTGAGTACCAACCTGCAGGGTTATTAGG GCAAAAACTGCCA
77262 I		S	AGTTGTCTCTTAAATTCTGATGAGGAGTAGCTATATGTGCACCCTT
77262 P	T	S	CGCGCCCAGGAGAAAAATAACTCTTCTCATTCCTY
77262 P	C	S	ATGACCTGGCAGACGCGAAAAATAACTCTTCTCATTCCY
77262 T	T	S	AAAGAGGAATGAGAAGAGTTATTTTTCTAGGGTGCACATATAGCTACTCCTCATCAGAATTTAAGAGACAACTCT
77262 T	C	S	AAAGAGGAATGAGAAGAGTTATTTTTCCAGGGTGCACATATAGCTACTCCTCATCAGAATTTAAGAGACAACTCT
77262 IS	[TC]		CAGAAATAGTCATTCAAAATACATAGCACTGTTAAAGAGGAATGAGAAGAGTTATTTTTC[TC]AGGGTGCACATATAGCTACTCCTCATCAGAATTTAAGAGACAACTC TGGAGATGGAGATT
77328 I		S	GAGACGGTGCAGAAATGGCGAGAATACCGACT
77328 P	C	S	ATGACGTGGCAGACGCCAGTGCCAGCY
77328 P	T	S	CGCGCCGAGGACAGTGCCAGCY
77328 T	C	S	GGACGCTGGCACTGGCGTCGGTATTCTCGCCATTTCTGCACCGTCTCCC
77328 T	T	S	GGACGCTGGCACTGGTGTCGGTATTCTCGCCATTTCTGCACCGTCTCCC
77328 IS	[CT]		GCCTACATGGACTCACCTGTGGCAGGAAGCTGGATCCTCAGTCAGGGAGCGCTGGCACTGG[CT]GTCGGTATTCTCGCCATTTCTGCACCGTCTCCCAGAGGGACACAGTG GCACCCTGGGGGG
77341 I		A	GTACAGCCACTAAAACAAAAACAAGAGTAGCTATTCTGTTTCTATGAAAACCAT
77341 P	A	A	CGCGCCGAGGATGATATAAATCCTGTTCATACTACGY
77341 P	G	A	ATGACGTGGCAGACGTGATATAAATCCTGTTCATACTACY
77341 T	A	A	GGAACGTAGTATGAACAGGATTTATATCATTGGTTTTCATAGAAACAGAATAGCTACTCTTGTTTTTGTTTTAGTGGCTGTACTA
77341 T	G	A	GGAACGTAGTATGAACAGGATTTATATCACTGGTTTTCATAGAAACAGAATAGCTACTCTTGTTTTTGTTTTAGTGGCTGTACTA
77341 IS	[AG]		CCTTATAGTACAGCCACTAAAACAAAAACAAGAGTAGCTATTCTGTTTCTATGAAAACCA[AG]TGATATAAATCCTGTTCATACTACGTTCCACAAGGTCATAAGTGCA GTGCATGGTCTAT
77613 I		S	GGCTCTTCGGCGGTTACCATGAAACAGAATAGGTAAACC
77613 P	T	S	CGCGCCGAGGATCTGGAGAAAACAGGCAY
77613 P	A	S	ATGACGTGGCAGACTTCTGGAGAAAACAGGCY
77613 T	T	S	CTTCTGCCTGTTTTCTCCAGATGTTTACCTATTCTCTTTCATGGTAACCGCCGAAGAGCCCA
77613 T	A	S	CTTCTGCCTGTTTTCTCCAGAAGTTTACCTATTCTCTTTCATGGTAACCGCCGAAGAGCCCA
77613 IS	[TA]		CAATGGTAAGCCAAAGAATTAGTGTCTATCTCAGCTCTGCTTCTGCCTGTTTTCTCCAGA[TA]GTTTACCTATTCTCTTTCATGGTAACCGCCGAAGAGCCCAGAGAAC AATACCAATATCC
77633 I		A	CCCAATGAACAGAATAAATAAAATAAATCAGAGGTGCAGGCAAAGCA
77633 P	C	A	ATGACGTGGCAGACCTATGAATACCCAGAAGTAAATGAY
77633 P	T	A	CGCGCCGAGGTTATGAATACCCAGAAGTAAATGAY
77633 T	C	A	TTTGTCATTTACTTCTGGGTATTCATAGGCTTTGCCTGCACCTCTGATTTTTTATTTATTCTGTTCATTGGGTA
77633 T	T	A	TTTGTCATTTACTTCTGGGTATTCATAAGCTTTGCCTGCACCTCTGATTTTTTATTTATTCTGTTCATTGGGTA
77633 IS	[CT]		TAATACACTGGAGGTACCCAATGAACAGAATAAATAAAAATCAGAGGTGCAGGCAAAGC[CT]TATGAATACCCAGAAGTAAATGACAAATTTCCCAAATAAAGTCTA GATTCCACCTACATT
77691 I		S	CTTGTAAAATGCAATCTCATTTCTTGGATTGTAGCTGTAAATTCTA
77691 P	A	S	CGCGCCAGGTACAGCTGGGAAGGGY
77691 P	G	S	ATGACCTGGCAGACCACAGCTGGGAAGGGY
77691 T	A	S	AGGACCCTTCCCAGCTGTAAGAATTTACAGCTACAATCCAAGAAATGAGATTGCATTTTACAAGAA
77691 T	G	S	AGGACCCTTCCCAGCTGTAGAAATTTACAGCTACAATCCAAGAAATGAGATTGCATTTTACAAGAA
77691 IS	[AG]		ACATAGGACTTAATTAACACCTTTGATCATTTCCTTCCTTTAGGACCCTTCCCAGCTGT[AG]AGAATTTACAGCTACAATCCAAGAAATGAGATTGCATTTTACAAGAA AAGAAACTGATG
77720 I		A	ACAATGAACAAAGAGCTGAAAAATGAATAGTTCTTGCAAATGTATA
77720 P	C	A	ATGACGTGGCAGACCGATCCATGTTTATATGGAAGAY
77720 P	T	A	CGCGCCGAGGTGATCCATGTTTATATGGAAGATAY
77720 T	C	A	TCAGTATCTTCCATATAAACATGGATCGATACATTTGCAAGAACTATTCATTTTTCAGCTCTTTGTTCATTGTGG
77720 T	T	A	TCAGTATCTTCCATATAAACATGGATCAATACATTTGCAAGAACTATTCATTTTTCAGCTCTTTGTTCATTGTGG
77720 IS	[CT]		ATAAAGAATTAGACACAGATGAACAAAGAAGAGCTGAAAAATGAATAGTTCTTGCAAATGTAT[CT]GATCCATGTTTATATGGAAGATACTGATATAATTTTTTTATGTA TGCAATGATCAAGTT
77791 I		A	GAAGGCACTGACAGCGTGTCTGGGACAA
77791 P	C	A	ATGACGTGGCAGACCGACTCTGTGCAGTY
77791 P	T	A	CGCGCCGAGGTGGCTCTGTGCAGTCY
77791 T	C	A	CAGTGACTGCACAGAGCCGTGTCCCAGACAGCTGTCAGTGCCTTCAA
77791 T	T	A	CAGTGACTGCACAGAGCCATGTCCCAGACAGCTGTCAGTGCCTTCAA
77791 IS	[CT]		CAAAGCACTGAATGAACAAACCGGCTCCGTGTTGAAGGCACTGACACCGTGTCTGGGACA[CT]GGCTCTGTGCAGTCACTGAACGGCATTGCTGCTGCTGCACTGCCGG CGGCAAGCTGGCC
77809 I		S	TTTAAAGTTAAAAAGAATTGTATAAAAATGAACACAATCTTTGCATAAGCTATTCCAAATA
77809 P	A	S	CGCGCCCAGGTTGAACCATAATGAAAACGGY
77809 P	G	S	ATGACGTGGCAGACCTGAACCATAATGAAAACGGY
77809 T	A	S	AAGGCCGTTTTCATTATGGTTCAAATTTGGAATAGCTTATGCAAAGATTGTGTTCATTTTTATACAATTCTTTTTAACTTTAAA
77809 T	G	S	AAGGCCGTTTTCATTATGGTTCAGATTTGGAATAGCTTATGCAAAGATTGTGTTCATTTTTATACAATTCTTTTTAACTTTAAA
77809 IS	[AG]		CTACAGTGTTTACAAATGCCAGTTCCAGCTGATTAGAAAGCCGTTTTCATTATGGTTCAJAG]ATTTGGAATAGCTTATGCAAAGATTGTGTTCATTTTTATACAATTC TTTTTAACTTTAAA
78019 I		S	CATGGCTAGCTTTATAGATAGTTGGGTGGTTGGTGTAAATCAGTT
78019 P	T	S	CGCGCCGAGGAAGCGAGCAGTCCGY
78019 P	C	S	ATGACGTGGCAGACGAGCAGGCAGCAGTCCGY
78019 T	T	S	TCCTCGGACTCCTGCCTTACTCATTTACACCAACAACCCAACTATCTATAAACCTAGCCATGGC
78019 T	C	S	TCCTCGGACTCCTGCCTCACTCATTTACACCAACAACCCAACTATCTATAAACCTAGCCATGGC

FIGURE 129C

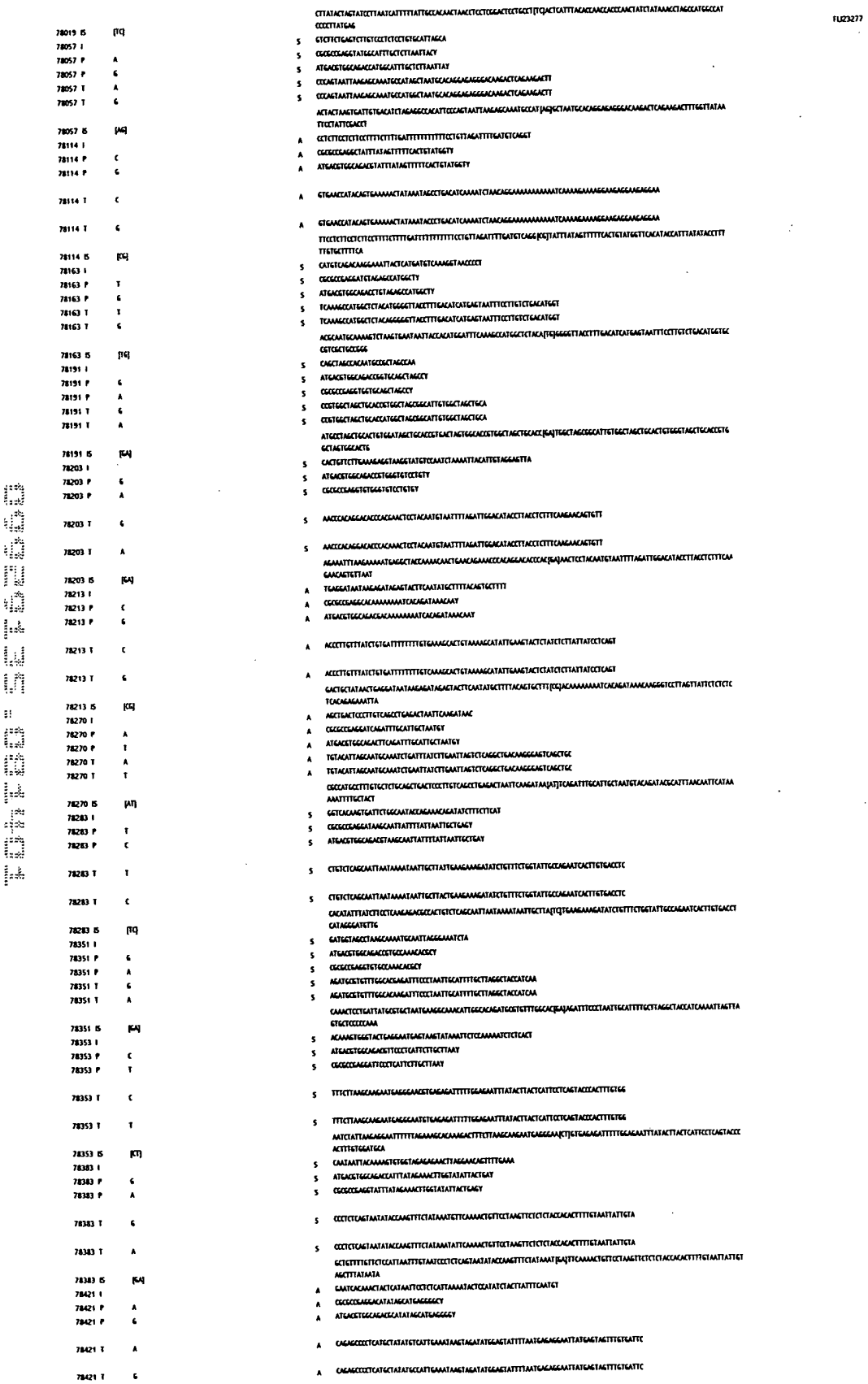


FIGURE 129C

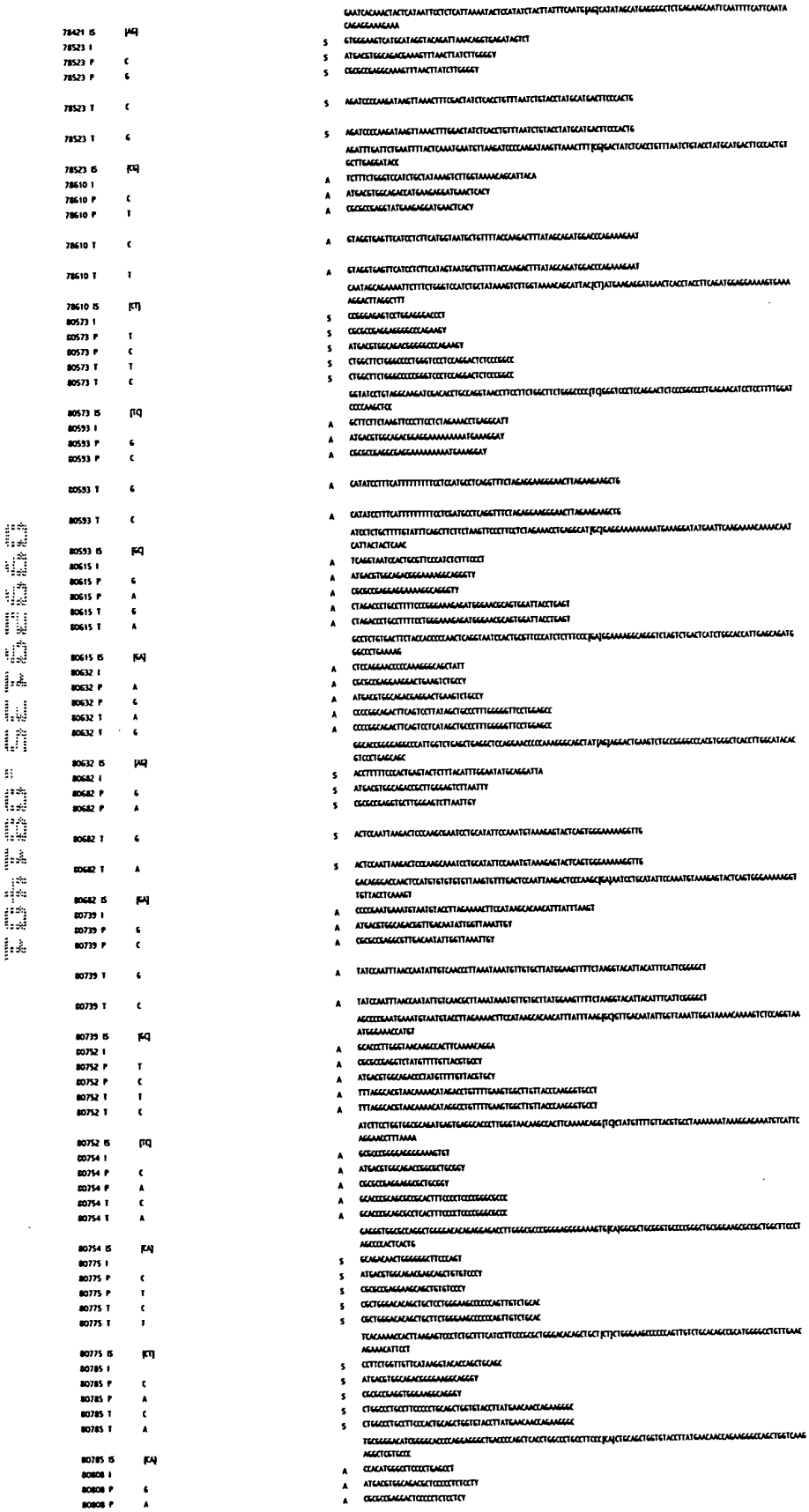
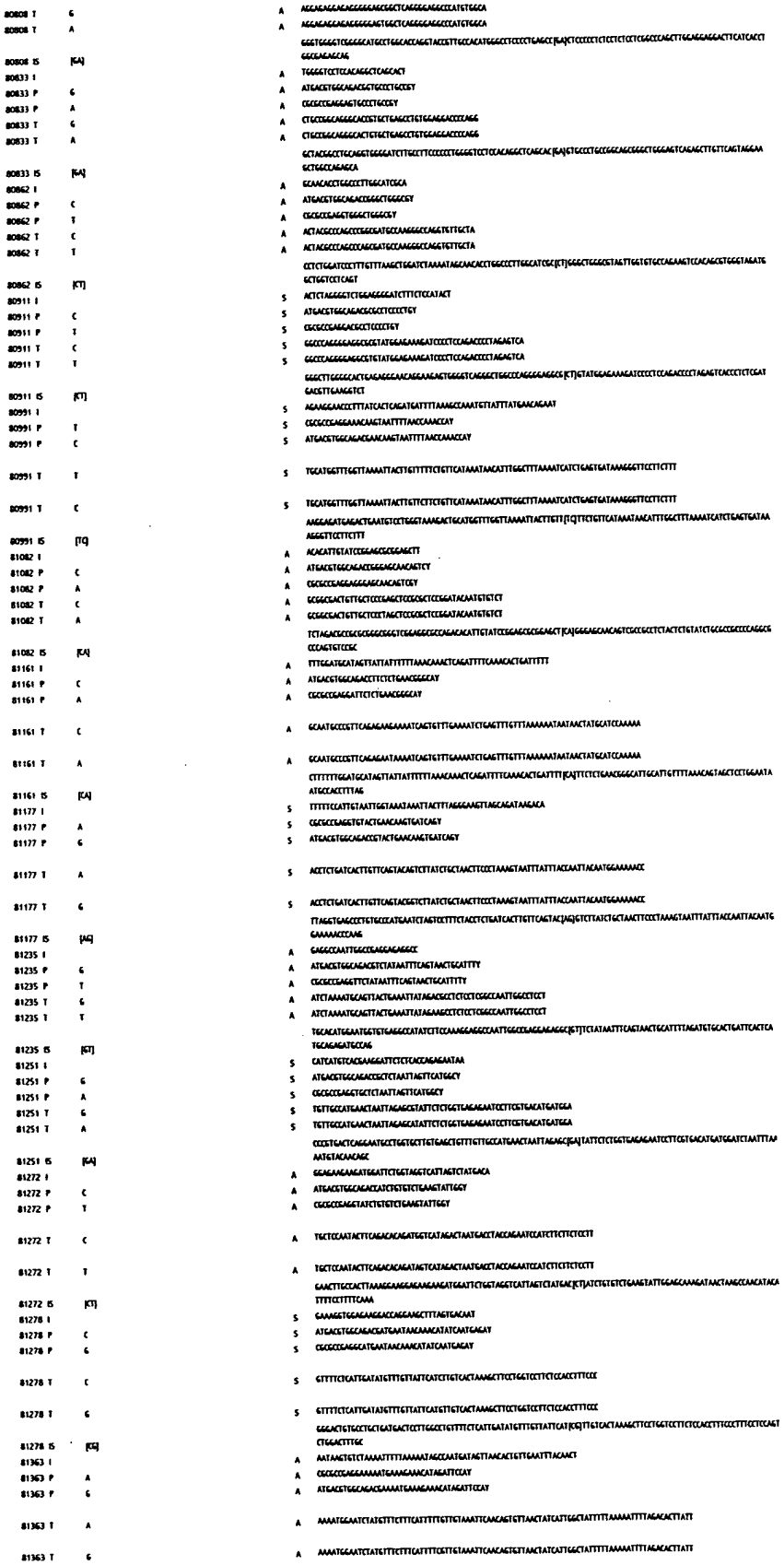
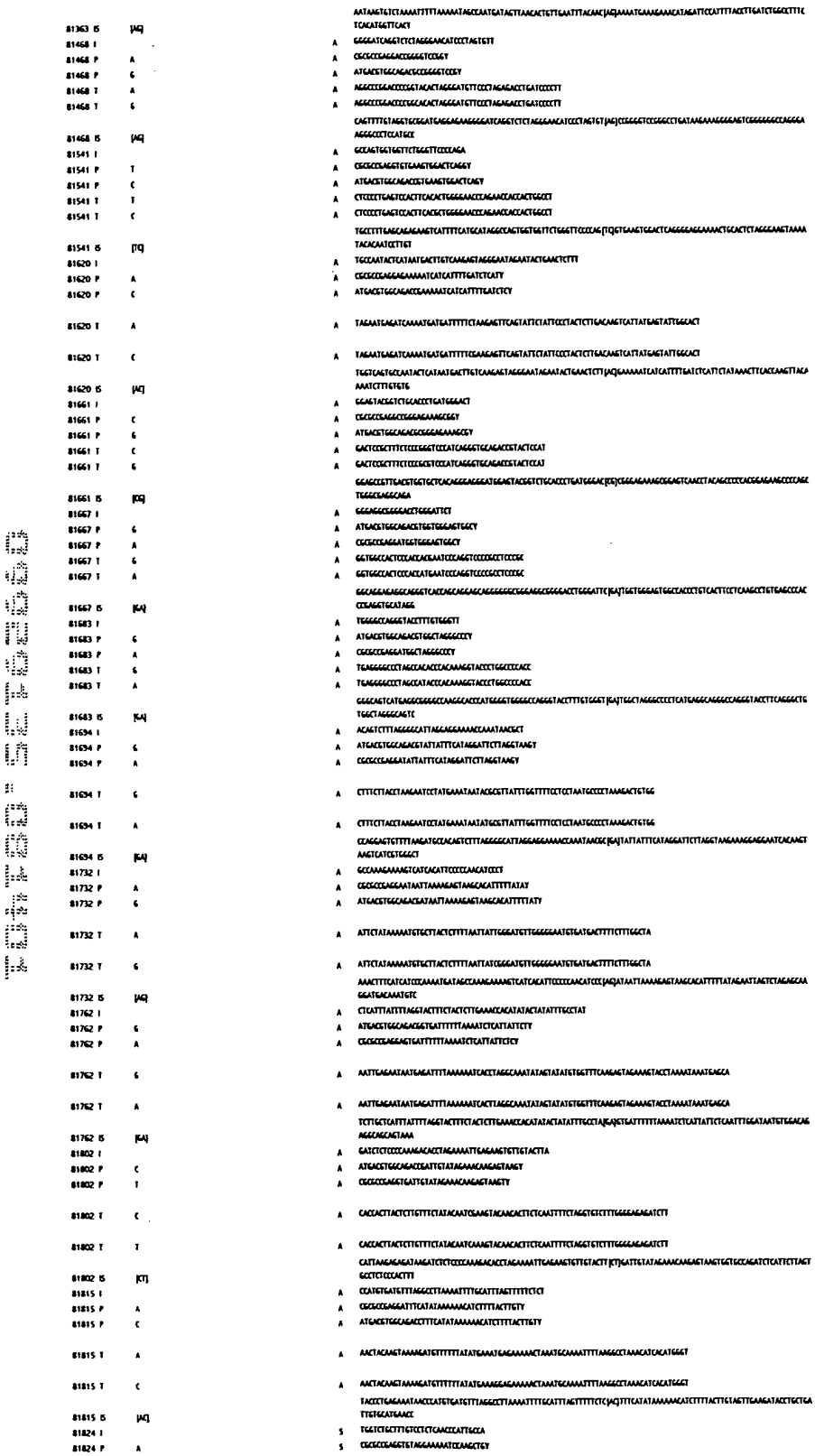


FIGURE 129C







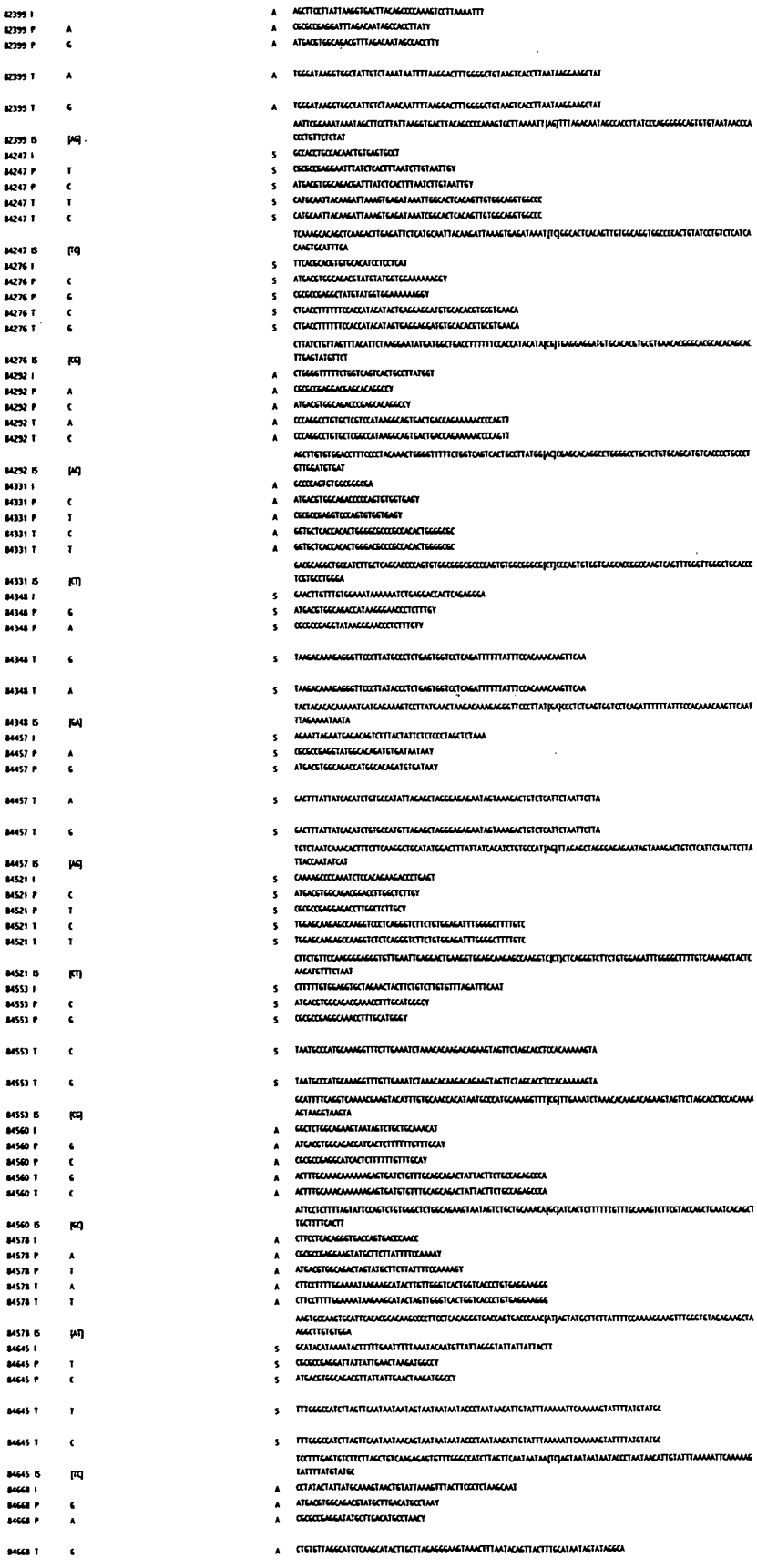
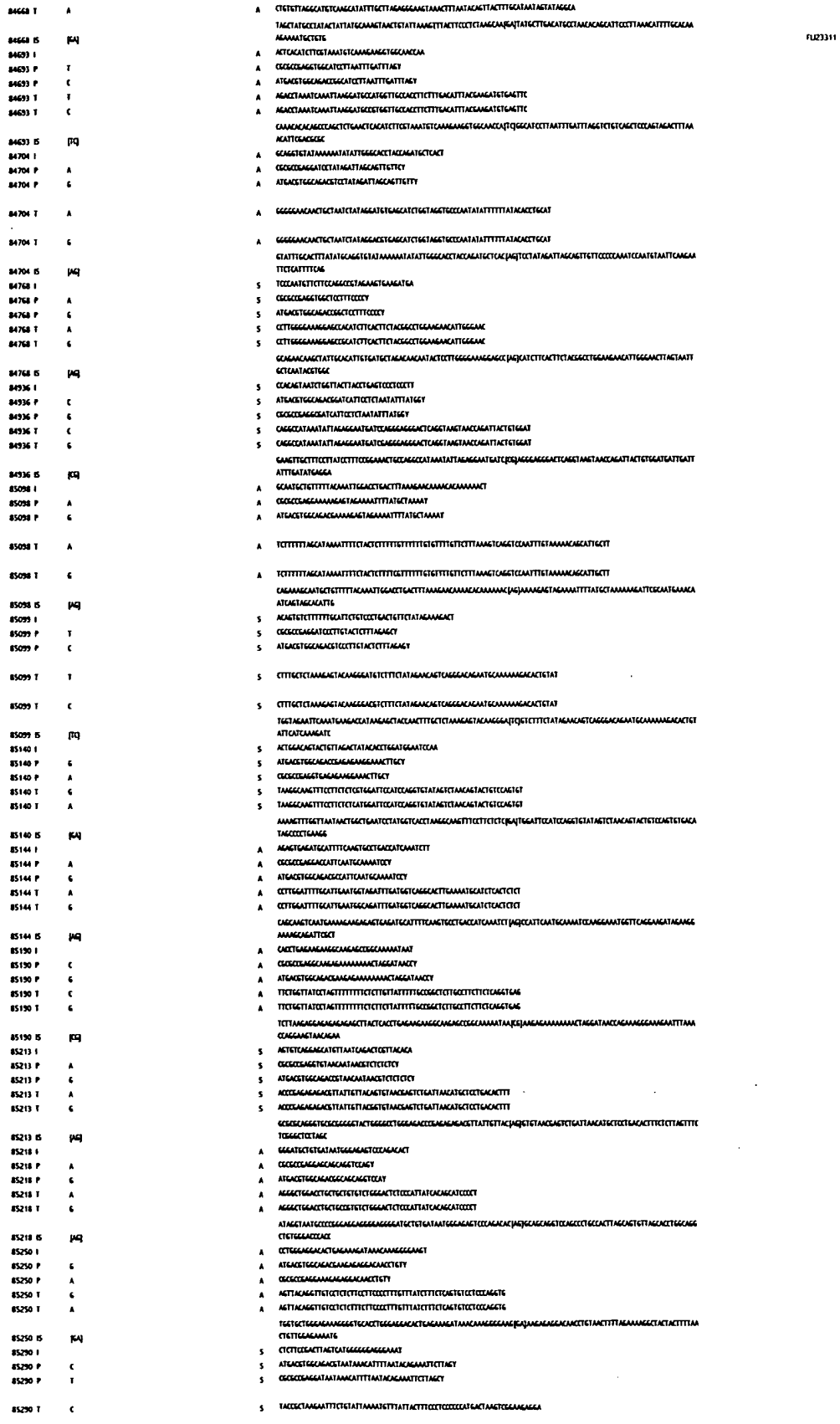
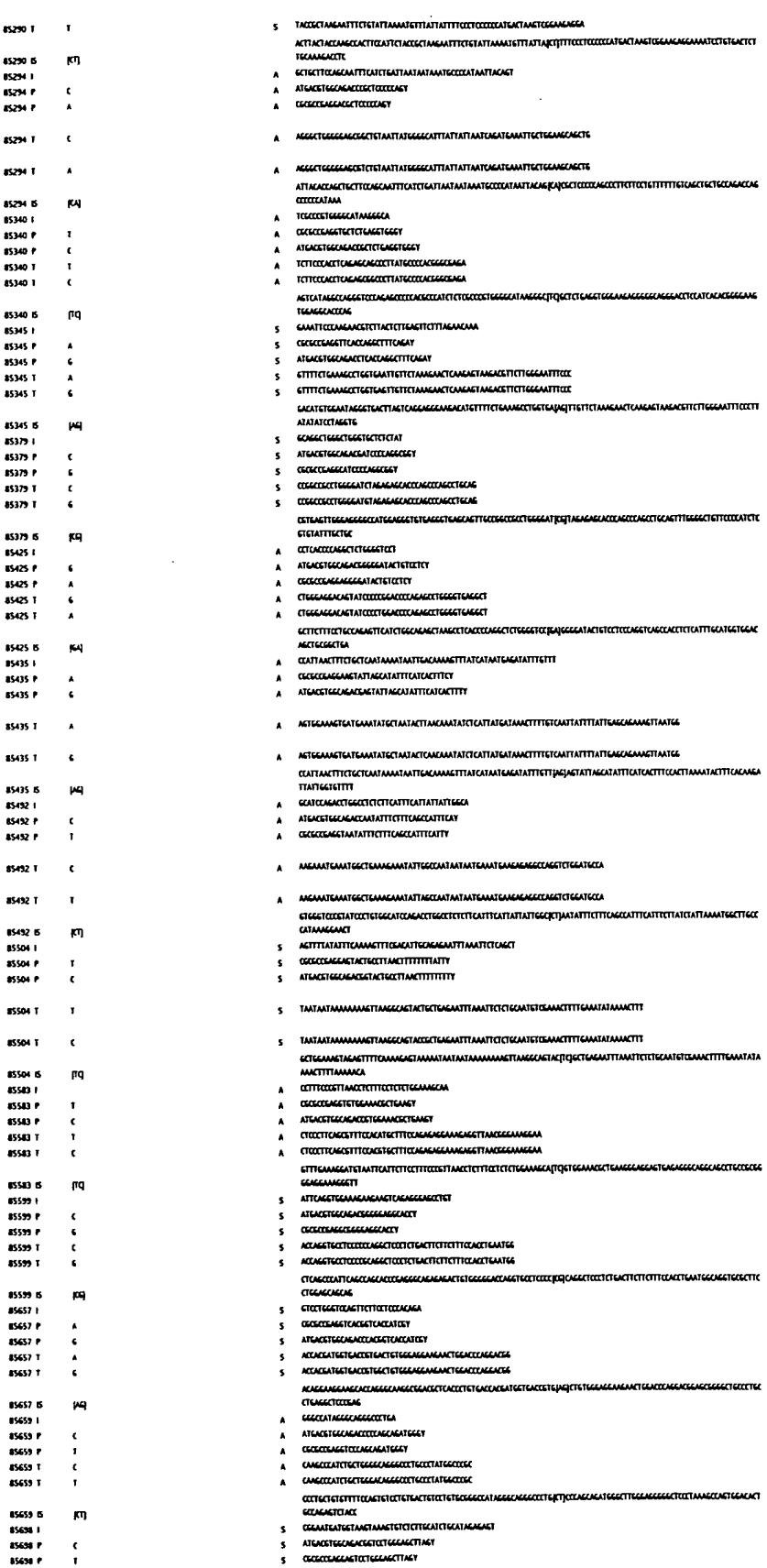
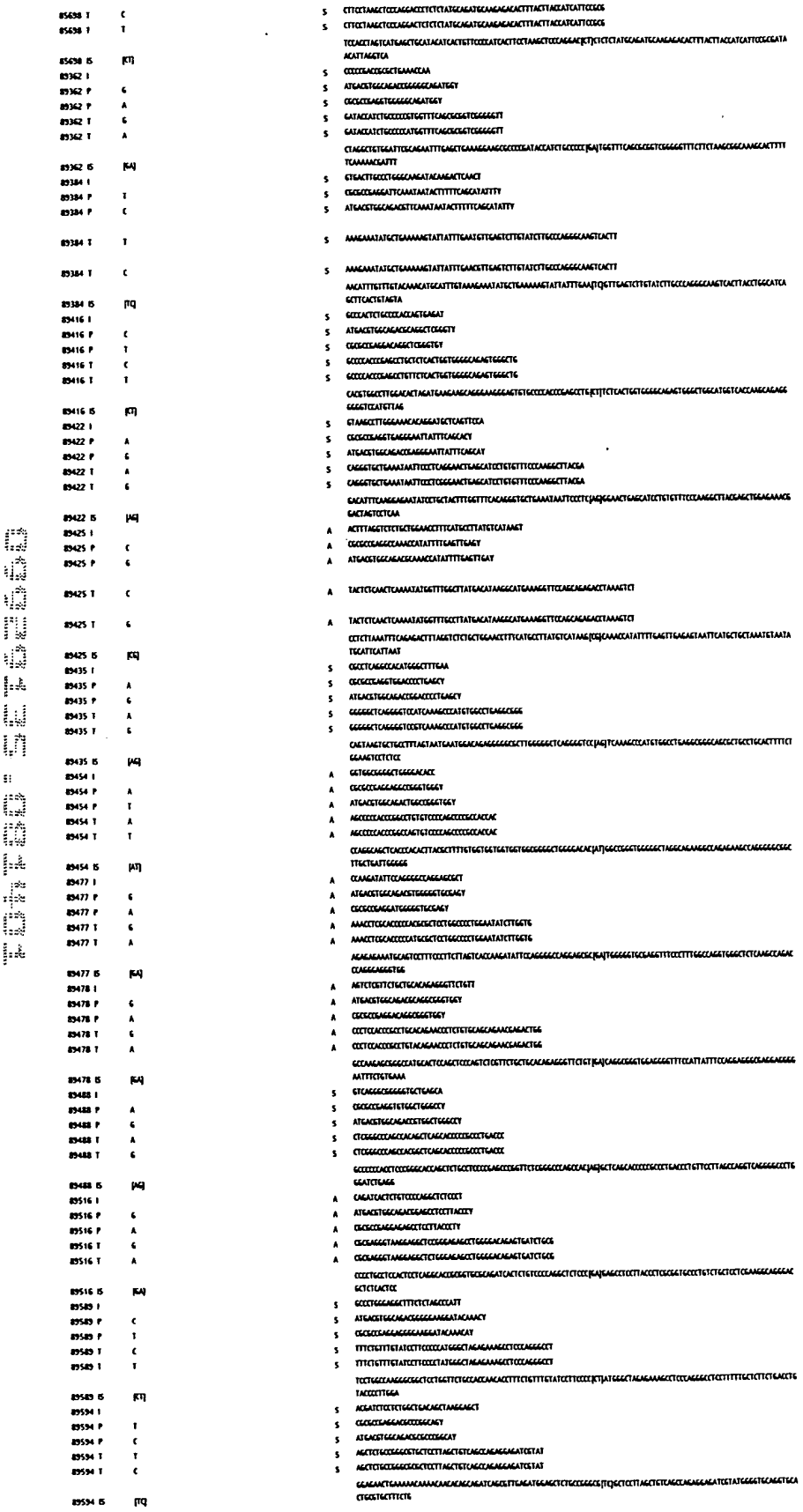
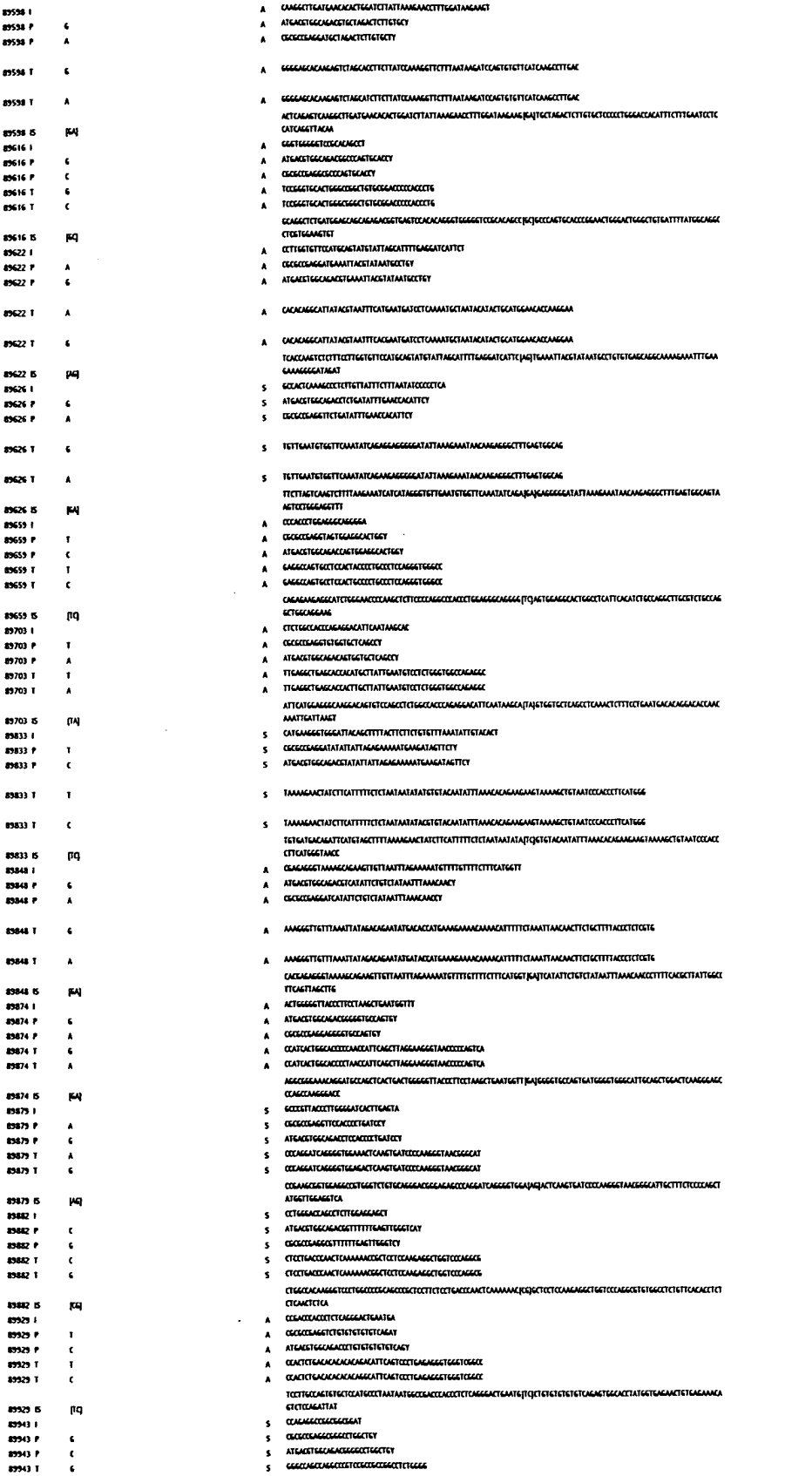


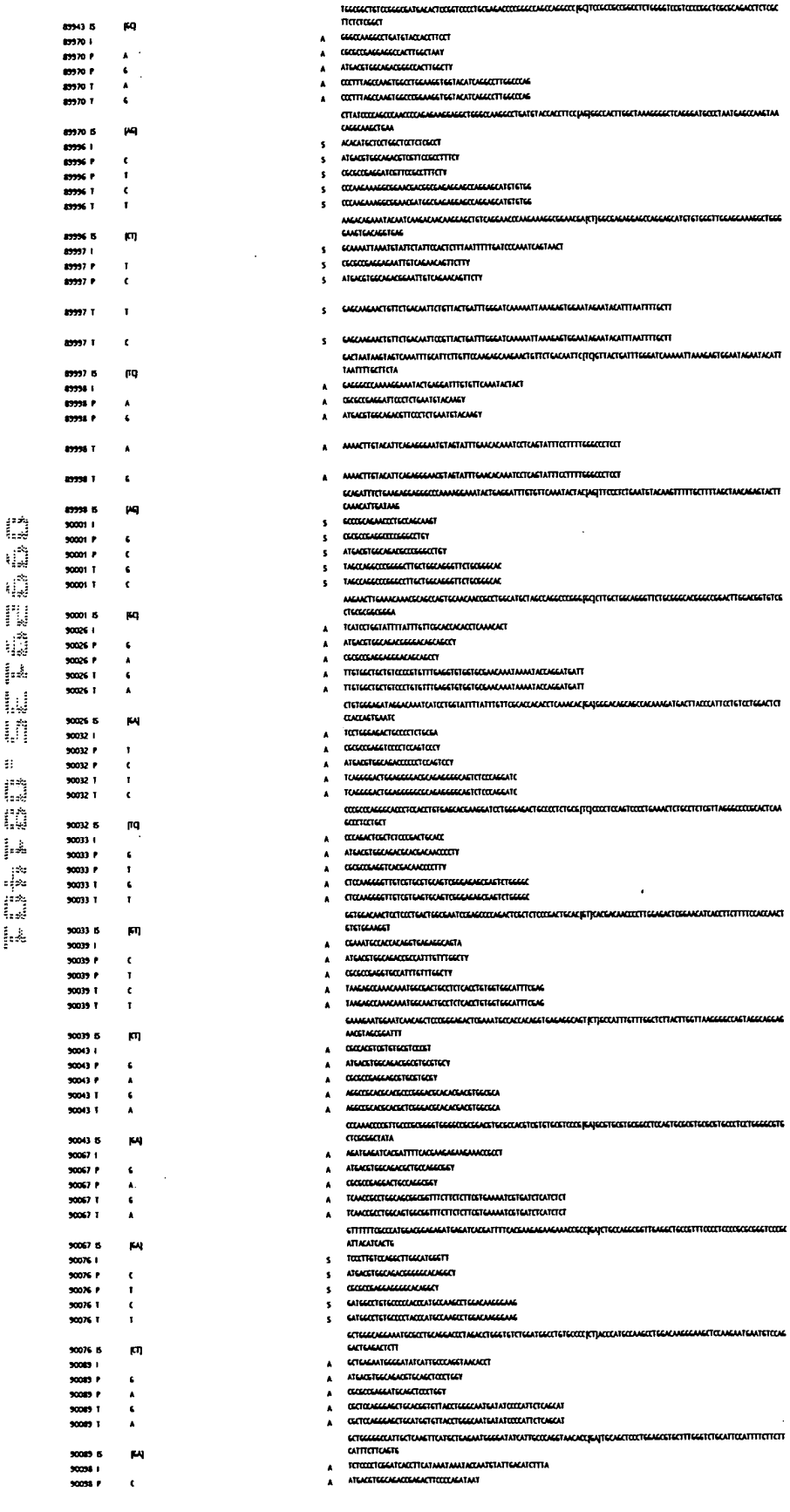
FIGURE 129C















90098 P	T	A	CGCGCCGAGCTGAGACTTCCCCAGATAAAY
90098 T	C	A	TGCATTTATCTGGGGAAGTCTCGAAAGATGTCAATACATTGGTATTTATTTATGAAGGTGATCCCAGGGGAGATG
90098 T	T	A	TGCATTTATCTGGGGAAGTCTCAAAAGATGTCAATACATTGGTATTTATTTATGAAGGTGATCCCAGGGGAGATG
90098 IS	[CT]		GTTGCAGCCATCTCCCCTCGGATCACCTTCATAAATAAATACCAATGTATTGACATCTTT[CT]GAGACTTCCCCAGATAAATGCAAGATAGGAAAGGGGGCTGAGGTGCA CAGGGGCACCCGC
90117 I		A	CTCGTCCTCAGGGGGGCAGGACAGT
90117 P	G	A	ATGACGTGGCAGACAAGCCCCAGGAGGY
90117 P	A	A	CGCGCCGAGGAAAGCCCCAGGAGGY
90117 T	G	A	GGGGCCTCCTGGGCCTTCCTGTCCTGCCCCCCTGAGGACGAGTG
90117 T	A	A	GGGGCCTCCTGGGCCTTTCTGTCCTGCCCCCCTGAGGACGAGTG
90117 IS	[GA]		CTGCGTCTCGTTGCAGTCGTGGTGCCCCTTTGCACACTCGTCCTCAGGGGGGCAGGACAG[GA]AGGCCCAGGAGCCCCCCGACGCCCACATGTCAGCCCTAGCACCGGG GATATAGCATTT
90139 I		S	ACCCTGCAGCTGCTCGTGAGCATCTTA
90139 P	A	S	CGCGCCGAGGTAGGTACGTGAGAGAACATTY
90139 P	G	S	ATGACGTGGCAGACAAGTACGTGAGAGAACAT
90139 T	A	S	TGGCAATGTTCTCTCACGTACCTAAAGATGCTCACGAGCAGCTGCAGGGTGG
90139 T	G	S	TGGGAATGTTCTCTCACGTACCTGAAGATGCTCACGAGCAGCTGCAGGGTGG
90139 IS	[AG]		AGAATGGATGGCTGGCTGGTTACCTCCTCATGGACACTGGGAATGTTCTCTCACGTACCT[AG]AAGATGCTCACGAGCAGCTGCAGGGTGGTCTGCTGTATCTGGCAGTT GAGTTTCTGCTGC
90156 I		A	GCCTCCCCGGGAGGGTGAGATCCCT
90156 P	G	A	ATGACGTGGCAGACGGGCCTTGGGCCY
90156 P	A	A	CGCGCCGAGGAGGGCTTGGGCCY
90156 T	G	A	AACAGGCCCAAGCCCCGGGATCTCACCCTCCCCGGGAGGCAC
90156 T	A	A	AACAGGCCCAAGCCCTGGGATCTCACCCTCCCCGGGAGGCAC
90156 IS	[GA]		ATGCCAGCTTCTCTAACCTGCACGTATCAGGTCACGTGCCTCCCCGGGAGGGTGAGATCCC[GA]GGGCTTGGGCCTGTTATATTCCTGTCTCTAGAAGAAGGCTGTGAGT GCAGGCCAGGAGG
90163 I		A	CCCCATGAGCACCCCTCACCTGGTTT
90163 P	G	A	ATGACGTGGCAGACGGGGTGCAGGCAT
90163 P	C	A	CGCGCCGAGGAGGGTGCAGGCAT
90163 T	G	A	CGTGTGCCTGCACCCCAACCAGGTGAGGGGTGCTCATGGGGCC
90163 T	C	A	CGTGTGCCTGCACCCCAACCAGGTGAGGGGTGCTCATGGGGCC
90163 IS	[GC]		CCAAGCCCAGCCCTCCAAAGTCCCCAGGGTGCCTCGCCCCCATGAGCACCCCTCACCTGGTT[GC]GGGTGCAGGCACACGCAGTTAATGGGTGCGTTCACCTGGAAGATCCGC TGGCACTGCAGG
90204 I		A	GCAAGCAATATTTACATCTGTTAATGCAATGTGCACTTGA
90204 P	C	A	ATGACGTGGCAGACCTTCACACTTAATTTGGTTAGTTTY
90204 P	T	A	CGCGCCGAGGTTTCACACTTAATTTGGTTAGTTTY
90204 T	C	A	ATACAAACTAACCAAATTAAGTGTGAAGCAAGTGCACATTGCATTAACAGATGTAAATATTGCTTGCTT
90204 T	T	A	ATACAAACTAACCAAATTAAGTGTGAAACAAGTGCACATTGCATTAACAGATGTAAATATTGCTTGCTT
90204 IS	[CT]		AACAGAAAGTCAATGAATTAAGCAAGCAATATTTACATCTGTTAATGCAATGTGCACTTG[CT]TTCACACTTAATTTGGTTAGTTTGTATAAATGAGACTAATCTCATT TACATTTTAAGCAG
90270 I		A	CCCTCGGGGGGATGGGGAGCT
90270 P	C	A	CGCGCCGAGGCGGGGAGAGGTGATGY
90270 P	G	A	ATGACGTGGCAGACGGGGAGAGGTGATGY
90270 T	C	A	GGGTCATCACCTCTCCCCCGGCTCCCCATCCCCCCGAGGGTC
90270 T	G	A	GGGTCATCACCTCTCCCCCGCTCCCCATCCCCCCGAGGGTC
90270 IS	[CG]		ACCAGCACCAAAGTCCCCGCACCCCCAAGTGCACCGCAGCACCCTCGGGGGGATGGGGAGC[CG]GGGGAGAGGTGATGACCCCTGGCACCTGCTGTCCCCACAGGCAGGCCA GGCAGCATACCT
90288 I		S	AAAAAAGGCAGTGTTAGTTTTCTGTCCCACTAGAATCCATCTTTGAATAAGT
90288 P	G	S	CGCGCCGAGGCGACTATATTTAAATTATTAGCAAGCY
90288 P	C	S	ATGACGTGGCAGACGGACTATATTTAAATTATTAGCAAGCAY
90288 T	G	S	AGCATGCTTGCTAATAATTTAAATATAGTGGCTTATTCAAAGATGGATTCTACTGGGACAGAAAACTAACACTGCCTTTTTTC
90288 T	C	S	AGCATGCTTGCTAATAATTTAAATATAGTCCCTTATTCAAAGATGGATTCTACTGGGACAGAAAACTAACACTGCCTTTTTTC
90288 IS	[GC]		AAATGTACAAATACCGTGAATTTTACAAACAGCATGCTTGCTAATAATTTAAATATAGTC[GC]CTTATTCAAAGATGGATTCTACTGGGACAGAAAACTAACACTGCCT TTTTTTCCCACAG
90294 I		A	GAAGGGCAGGGCAGCAGGGTCTA
90294 P	C	A	ATGACGTGGCAGACCGATGGCCCTGCCY
90294 P	T	A	CGCGCCGAGGTGATGGCCCTGCCY
90294 T	C	A	CTGGGGCAGGGCCATCGAGACCCTGCTGCCCTGCCCTTCCT
90294 T	T	A	CTGGGGCAGGGCCATCAAGACCCTGCTGCCCTGCCCTTCCT
90294 IS	[CT]		GTCTGGCCTACCTTTGCTTTTCTCACCAGGAAGGGCAGGAAGGGCAGGGCAGCAGGGTCT[CT]GATGGCCCTGCCCCAGCATTGTCCCCTGTGCCACAGGATGGACCAAG AATCTCCAGGAG
90317 I		S	GCAACTATGGCATCCCCCCAGATGAAATGGATT
90317 P	C	S	ATGACGTGGCAGACGAGTTCGGTCTCTGCAY
90317 P	T	S	CGCGCCGAGGAAGTTCGGTCTCTGCAY
90317 T	C	S	ACCTTGCAGAGACCGAACTCATCCATTTCATCTGGGGGGATGCCATAGTTGCCG
90317 T	T	S	ACCTTGCAGAGACCGAACTTATCCATTTCATCTGGGGGGATGCCATAGTTGCCG
90317 IS	[CT]		CTGACTTGAAAAGGAATGTAGAGAAAGCACTGGGTGTGGCTACCTTGCAGAGACCGAACT[CT]ATCCATTTCATCTGGGGGGATGCCATAGTTGCCGATCAGAGGATAG GTGAGCACTAAGAT
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90341 P	T	A	CGCGCCGAGGTCCAATCCTCCTCATACCY
90341 P	C	A	ATGACGTGGCAGACCCCAATCCTCCTCATACCY
90341 T	T	A	TTTAGGTATGAGGAGGATTGGATAAGAGGAAGATATCTTTTCATCAGATTGAATTGGAATTAGAAACATATTTTGTTGCA
90341 T	C	A	TTTAGGTATGAGGAGGATTGGGTAAGAGGAAGATATCTTTTCATCAGATTGAATTGGAATTAGAAACATATTTTGTTGCA
90341 IS	[TC]		TTTGCAACAAAATATGTTTCTAATTCCAATTCAATCTGATGAAAAGATATCTTCTCTTATTCCCAATCCTCCTCATACCTAAAAATTTCTGCCATTTACAGAATTATTGG AGAAATTGTGAA
90355 I		S	CGAGAATGGAGGCAAGTCCGAGTCCGTT
90355 P	T	S	CGCGCCGAGAGCCAACCTGCAGGY
90355 P	C	S	ATGACGTGGCAGACGCCCAACCTGCAGY
90355 T	T	S	TGGGCCTGCAGGTTGGCTACGGACTGGACTTGCCTCCATTCTCGCT
90355 T	C	S	TGGGCCTGCAGGTTGGCCACGGACTGGACTTGCCTCCATTCTCGCT
90355 IS	[TC]		GCGCTTGGGAACCCGGGGAACTGTGGATGGAGTTCAGGGAGGGCTGGGCCTGCAGGTTGGC[TC]ACGGACTCGAACTTGCCTCCATTCTCGCTTGAGGAATGAGAGTATG CATCTGAGGAAAC
90378 I		A	GAACAGAACAGTACCAGGGGAAATGAATATGGTAAAGACACAACTAA
90378 P	C	A	ATGACGTGGCAGACCGTGAATATTGATTATGTTGCTY
90378 P	T	A	CGCGCCGAGGTGTGAATATTGATTATGTTGCTCT
90378 T	C	A	TGCTGAGCAACATAATCAATATTCACGTAGTTGTGTCTTTACATATTCATTTCCCCTGGTACTGTTCTGTTCTG
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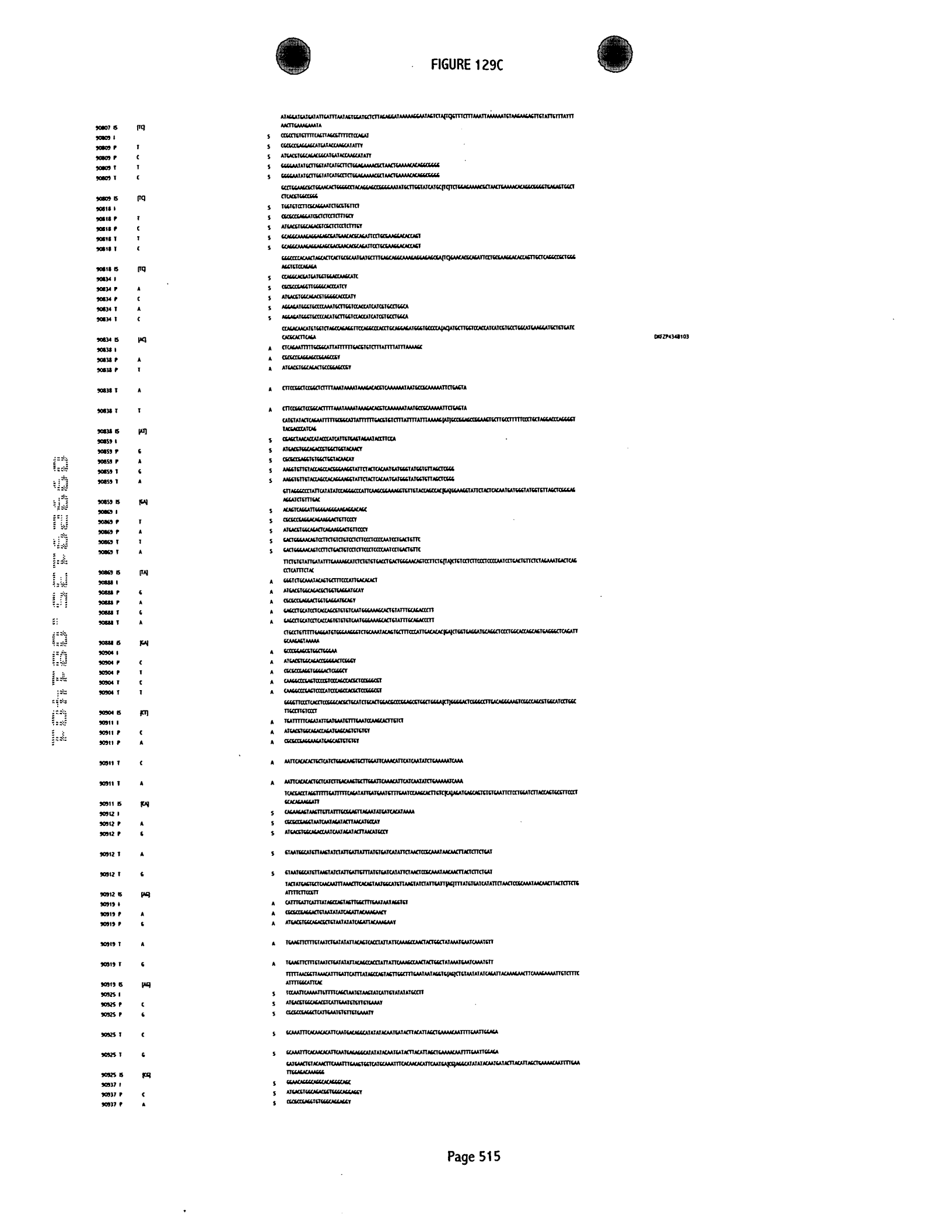
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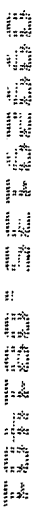
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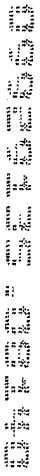
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90597 I		S	CTGGCGCCCTGGGCCCT
90597 P	G	S	CGCGCCGAGGCGGGCGGCTTGGY
90597 P	C	S	ATGACGTGGCAGACGGGGCGGCTTGGY
90597 T	G	S	CCAGCCAAGCCGCCCGGGGCCCAGGCCGCCAGG
90597 T	C	S	CCAGCCAAGCCGCCCGGGCCCAGGCCGCCAGG
			ACATGCAGGGGCACGAAGACTAGCCTCGCCCCCGCAGCCTCACGGCCCAGCCAAGCCGCCC[GC]GGGCCCAGGGCCCGCCAGGGGGGAAGGCCGCCCGCAGGAGAGCCTCG
90597 IS	[GC]		AGGAGGGGACCGC
90614 I		A	CAAATCAGAAATGTTCTTTCCCTCTGTGCCCTTCTGTCT
90614 P	G	A	ATGACGTGGCAGACGACTTAGCACCCTGCTY
90614 P	A	A	CGCGCCGAGGAACTTAGCACCCTGCTY
90614 T	G	A	ATTTAGCAGGGTGCTAAGTCGACACAAGGGCACACAGAGGGAAAGAACATTTCTGATTTGCT
90614 T	A	A	ATTTAGCAGGGTGCTAAGTTGACACAAGGGCACACAGAGGGAAAGAACATTTCTGATTTGCT
			ACCAGTAAAGGAAAAAAGAAAGCAAATCAGAAATGTTCTTTCCCTCTGTGCCCTTCTGTCTG[GA]ACTTAGCACCCTGCTAAATTCAAAAGCGAACTCTAAACTCCATCTAT
90614 IS	[GA]		ATCATACATTCTT
90620 I		A	CTGCGCCCGGTCCCCGAGACC
90620 P	G	A	ATGACGTGGCAGACGCCCGCCCGGY
90620 P	T	A	CGCGCCGAGGTCCCGCCCGGTY
90620 T	G	A	TGCAACCGGCCGGGCGTCTCGGGGAACCGGGCGCAGCA
90620 T	T	A	TGCAACCGGCCGGGGAGTCTCGGGGAACCGGGCGCAGCA
			AGGTGAGTGTACCTTCCCCCGGTCTCCGCGGGGCTGCGTGCTGCGCCCGGTCCCCGAGAC[GT]CCCGCCCGGTTGCACCCTGCGCCGTCGCTGCGCGGAACCCGGGTGCCGC
90620 IS	[GT]		CACACGTCTGG
90629 I		S	CCAGGCCAAAAAGGATAAGGTAGTTGATGGTGAAAACTGTAATTTA
90629 P	G	S	ATGACGTGGCAGACGGAACTGGTGAAGTCCTY
90629 P	A	S	CGCGCCGAGGTGAACTGGTGAAGTCCTY
90629 T	G	S	CCTGAGGACTTCACCAGTTCGAAATTACAGTTTTCACCATCAACTACCTTATCCTTTTTGGCCTGGTT
90629 T	A	S	CCTGAGGACTTCACCAGTTCAAAATTACAGTTTTCACCATCAACTACCTTATCCTTTTTGGCCTGGTT
			GCAGCTGTCACGTGTGAATATGTGTCTAGTGCATCCTTAACCTGAGGACTTCACCAGTTC[GA]AAATTACAGTTTTCACCATCAACTACCTTATCCTTTTTGGCCTGGTTT
90629 IS	[GA]		TCTTCCTCAAAC
90637 I		S	TGAGCGGCTGGGCTGGCCA
90637 P	A	S	CGCGCCGAGGTGGGTTGCTGCACCY
90637 P	G	S	ATGACGTGGCAGACCGGGTTGCTGCACY
90637 T	A	S	AACAGGTGCAGCAACCCAGGCCAGCCCAGCCGGCTCATT
90637 T	G	S	AACAGGTGCAGCAACCCGGGCCAGCCCAGCCGGCTCATT
			CAGGTGATCCTTATATCTGTCCTGGAACACTAGACCACCCAGAAACAGGTGCAGCAACCC[AG]GGCCAGCCCAGCCGCTCATTCTGCTCCTCCTCTTGCCTCTTCTCCTCC
90637 IS	[AG]		AGGGAACTCTT
90666 I		S	AGTGGCTGTTCAGCAGATTGAAAAGGTGAAATTTAAATGGTAGACT
90666 P	T	S	CGCGCCGAGGATTAATTTTATAGAGTTGTCAACTTCTY
90666 P	C	S	ATGACGTGGCAGACGTTAATTTTATAGAGTTGTCAACTTCTY
90666 T	T	S	TTGCAGAAGTTGACAACTCTATAAAATTAATGTCTACCATTTAAATTTCACCTTTTCAATCTGCTGAACAGCCACTGA
90666 T	C	S	TTGCAGAAGTTGACAACTCTATAAAATTAACGTCTACCATTTAAATTTCACCTTTTCAATCTGCTGAACAGCCACTGA
			TTCTCAAAGTGCCTATGATAAAAATTATGCTTGCAGAAGTTGACAACTCTATAAAATTAA[TC]GTCTACCATTTAAATTTCACCTTTTCAATCTGCTGAACAGCCACTGA
90666 IS	[TC]		GGCTATCCTATCT
90669 I		S	CTTCAGTGACTCTTCGTTCTAGGAAGGGGCAGGT
90669 P	G	S	ATGACGTGGCAGACCATTAGCTGTGGGTACCY
90669 P	T	S	CGCGCCGAGGAATTAGCTGTGGGTACCAY
90669 T	G	S	GGGCTGGTACCCACAGCTAATGCCTGCCCCTTCCTAGAACGAAGAGTCACTGAAGAA
90669 T	T	S	GGGCTGGTACCCACAGCTAATTCCTGCCCCTTCCTAGAACGAAGAGTCACTGAAGAA
			AGGTCCCCAGACACCAAGCCTGGGTGCTCTCCAGCAGACGGCGTGGTACCCACAGCTAAT[GT]CCTGCCCCTTCCTAGAACGAAGAGTCACTGAAGAAGTGCCTGCAGGA
90669 IS	[GT]		TTACCTGGCAAGG
90710 I		A	TTGTTGGTTTTGTGTACTGTTGCTTTAGAAATTGACGTAAGGCTTT
90710 P	G	A	ATGACGTGGCAGACGCCATAAACGTGCCAGY
90710 P	C	A	CGCGCCGAGGCCCATAAACGTGCCAGY
90710 T	G	A	TCCTCTGGCACGTTTATGGCAAGCCTTACGTCAATTTCTAAAGCAACAGTACACAAAACCAACAAGT
90710 T	C	A	TCCTCTGGCACGTTTATGGGAAGCCTTACGTCAATTTCTAAAGCAACAGTACACAAAACCAACAAGT
			AGCAGTAGAGGTGACTTGTTGGTTTTGTGTACTGTTGCTTTAGAAATTGACGTAAGGCTT[GC]CCATAAACGTGCCAGAGGAAAAGAGGGACGCAATGGGATCTGTTAT
90710 IS	[GC]		TGAACATTTCAGAG
90716 I		A	CCTTGCACCTCCCCAAGCACTGGGT
90716 P	G	A	ATGACGTGGCAGACGCTGCCCTCTGTGGY
90716 P	A	A	CGCGCCGAGGAACTGCCCTCTGTGGY
90716 T	G	A	AAGCCCACAGAGGGCAGCCCCAGTGCTTGGGGAGGTGCAAGGTT
90716 T	A	A	AAGCCCACAGAGGGCAGTCCCAGTGCTTGGGGAGGTGCAAGGTT
			CTCTGTATAGCAAATCAAGCTCTGATGCTGACAAACCTTGCACCTCCCCAAGCACTGGG[GA]CTGCCCTCTGTGGGCTCTCGAAGGAGACACATTTAAGGCACCTTGCAA
90716 IS	[GA]		GTGAGAGAGAAAT
90739 I		A	GGGTTGTCCTTTTTGTGTTTCTGTCCAGACACCACT
90739 P	G	A	ATGACGTGGCAGACGATCAGCCCCAAGGCY
90739 P	C	A	CGCGCCGAGGCATCAGCCCCAAGGCY
90739 T	G	A	CTGGGCCTTGGGGCTGATCGTGGTGTCTGGACAGAAACACAAAAGGACAACCAA
90739 T	C	A	CTGGGCCTTGGGGCTGATGGTGGTGTCTGGACAGAAACACAAAAGGACAACCAA
			GAGGACATCTCTTTCCTCCAAAATTGGGTTGTCCTTTTTGTGTTTCTGTCCAGACACCAC[GC]ATCAGCCCCAAGGCCCAGGTGTGCAACCAATGCTCCGCATTGCCAAGC
90739 IS	[GC]		CTCCTCCTCCTG
90791 I		S	GGTGAGTACCGCAGCCCAGCCCC
90791 P	C	S	ATGACGTGGCAGACGAGGCCAGCCGCY
90791 P	A	S	CGCGCCGAGGTAGGGCAGCCGCY
90791 T	C	S	GTCAGCGGCTGCCCTCGGGCTGGGCTGCGGTACTCACCGG
90791 T	A	S	GTCAGCGGCTGCCCTAGGGCTGAGCTGCGGTACTCACCGG
			GGGCCAGGCAGCAGCAGGCCATCCGGGGCACGCTGCGCAAGGCAGTGTCAGCGGCTGCCCT[CA]GGGCTGGGCTGCGGTACTCACGGCCAGCGGCCCGTGCTTGTCGTTC
90791 IS	[CA]		AAGGCCTCGCACA
90802 I		A	GCAGGCTGAGGAGATTGAGAAGGAGTGAGTGGT
90802 P	G	A	ATGACGTGGCAGACGGCTGCGGCAGGY
90802 P	A	A	CGCGCCGAGGAGCTGCGGCAGGY
90802 T	G	A	CAGCCCTGCCGCAGCCCCACTCACTCCTTCTCAATCTCCTCAGCCTGCGG
90802 T	A	A	CAGCCCTGCCGCAGCTCCACTCACTCCTTCTCAATCTCCTCAGCCTGCGG
			TGCACAAGCCCCCGCGGCCTCAAGCACCTCCACAGGCTGAGCAGATTCAGAAGGAGTGAGTGG[GA]GCTGCGCCAGGCCTGGGGCTCCCTGGGGCAAGACCCAGGTCCAGCCC
90802 IS	[GA]		TGACCTGCCGCCA
90807 I		S	TATTTCTTTCAAGTTAAATAAACAATACAACTCTTCTTACATTTTTTAATTTAAAGAAACT
90807 P	T	S	CGCGCCGAGGATAGACTATTCCTTTTTATCCTCTAAY
90807 P	C	S	ATGACGTGGCAGACGTAGACTATTCCTTTTTATCCTCTAY
90807 T	T	S	GCTCTTAGAGGATAAAAAGGAATAGTCTATGTTTCTTTAAATAAAAAATGTAAGAAGAGTTGTATTGTTTATTTAACTTGAAAGAAATA
90807 T	C	S	GCTCTTAGAGGATAAAAAGGAATAGTCTACGTTTCTTTAAATAAAAAATGTAAGAAGAGTTGTATTGTTTATTTAACTTGAAAGAAATA





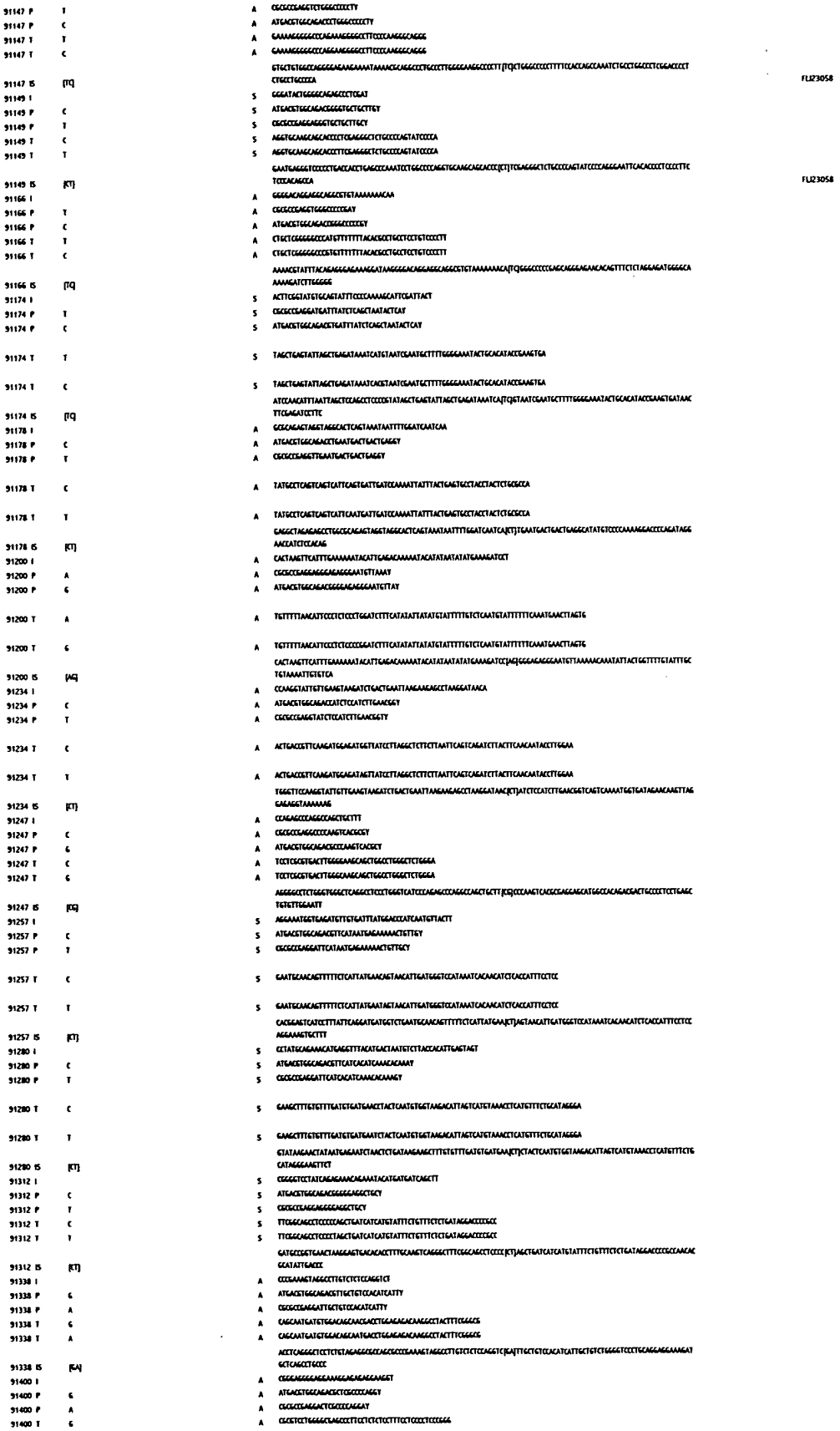
Docket No. 10758-1005P1 Client Ref. No. 01-1005-US-P1

FIGURE 129C








91147 P T A CGCCCCGAGGTCTGGGCCCCCTY
91147 P C A ATGACGTGGCAGACCCTGGGCCCCCTY
91147 T T A GAAAACGGGGCCCAGAAAGGGGCCTTCCCCAAGGCCAGGG
91147 T C A GAAAACGGGGCCCAGAAAGGGGCCTTCCCCAAGGCCAGGG
GTGCTGTGGCCAGGGGACAAGAAAATAAAACACAGCCCTGCCCTTGGGGAAGGCCCCTTJTCJCTGGGCCCCCTTTTCCACCAGCCAAATCTGCCTGGCCCTCGACCCCT
91147 IS [TC] CTGCCTGCCCCA FLI23058
91149 I S GGGATACTGGGGCAGACCCTCCAT
91149 P C S ATGACGTGGCAGACGGGGTGCTGCTTGY
91149 P T S CGCGCCGAGGAGGGTGCTGCTTGCY
91149 T C S AGGTGCAAGCAGCACCCTCGAGGGCTCTGCCCCAGTATCCCCA
91149 T T S AGGTGCAAGCAGCACCCTTCGAGGGCTCTGCCCCAGTATCCCCA
GAATGAGGGTCCCCCTGACCACCTGAGCCCAAATCCTGGCCCCAGGTGCAAGCAGCACCC[CT]TCCAGGGCTCTGCCCCAGTATCCCCAGGGAATTCACACCCCTCCCTTC
91149 IS [CT] TCCCACAGCCA FLI23058
91166 I A GGGGACAGGAGCCAGCCGTGTAAAAAAACAA
91166 P T A CGCGCCGAGGTGGGCCCCCGAY
91166 P C A ATGACGTGGCAGACGGGGCCCCCGY
91166 T T A CTGCTCGGGGGGCCCATGTTTTTTTACACGCCTGCCTCCTGTCCCCTT
91166 T C A CTGCTCGGGGGCCCCTGTTTTTTTACACGCCTGCCTCCTGTCCCCTT
AAAACGTATTTACAGAGGGAGAAAGGATAAGGGGAACAGGAGGCAGGCGCTGTAAAAAAACA[TC]GGGCCCCCCAGCAGGAGAACACAGTTTCTCTAGGAGATGGGGCA
91166 IS [TC] AAAAGATCTTGGGGG
91174 I S ACTTCGGTATGTGCAGTATTTCCCCAAAGCATTCGATTACT
91174 P T S CGCGCCGAGGATGATTTATCTCAGCTAATACTCAT
91174 P C S ATGACGTGGCAGACGTGATTTATCTCAGCTAATACTCAT
91174 T T S TAGCTGAGTATTAGCTGAGATAAATCATGTAATCGAATGCTTTTGGGGAAATACTGCACATACCGAAGTGA
91174 T C S TAGCTGAGTATTAGCTGAGATAAATCACGTAATCGAATGCTTTTGGGGAAATACTGCACATACCGAAGTGA
ATCCAACATTTAATTAGCTCCAGCCTCCCGGTATAGCTGAGTATTAGCTGAGATAAATCA[TC]GTAATCGAATGCTTTTGGGGAAATACTGCACATACCGAAGTGATAAC
91174 IS [TC] TTCGAGATCCTTC
91178 I A GCGCAGAGTAGGTAGGCACTCAGTAAATAATTTTGGATCAATCAA
91178 P C A ATGACGTGGCAGACCTGAATGACTGACTGAGGY
91178 P T A CGCGCCGAGGTTGAATGACTGACTGAGGY
91178 T C A TATGCCTCAGTCAGTCATTCAGTGATTGATCCAAAATTATTTACTGAGTGCCTACCTACTCTGCGCCA
91178 T T A TATGCCTCAGTCAGTCATTCAATGATTGATCCAAAATTATTTACTGAGTGCCTACCTACTCTGCGCCA
GAGGCTAGAGAGCCTGGCGCAGAGTAGGTAGGCACTCAGTAAATAATTTTGGATCAATCA[CT]TGAATGACTGACTGAGGCATATGTCCCCAAAAGGACCCCAGATAGG
91178 IS [CT] AACCATCTCCACAG
91200 I A CACTAAGTTCATTTGAAAAATACATTGAGACAAAATACATATAATATATATGAAAGATCCT
91200 P A A CGCGCCGAGGAGGGAGAGGGAATGTTAAAY
91200 P G A ATGACGTGGCAGACGGGGAGAGGGAATGTTAY
91200 T A A TGTTTTAACATTCCCTCTCCCTGGATCTTTCATATATTATATGTATTTTTGTCTCAATGTATTTTTTCAAATGAACTTAGTG
91200 T G A TGTTTTAACATTCCCTCTCCCCGGATCTTTCATATATTATATGTATTTTTGTCTCAATGTATTTTTTCAAATGAACTTAGTG
CACTAAGTTCATTTGAAAAAATACATTGAGACAAAATACATATAATATATGAAAGATCC[AG]GGGAGAGGGAATGTTAAAACAAATATTACTGGTTTTGTATTTGC
91200 IS [AG] TGTAAAATTGTGTCA
91234 I A CCAAGGTATTGTTGAAGTAAGATCTGACTGAATTAAGAAAGAGCTAAGGATAACA
91234 P C A ATGACGTGGCAGACCATCTCCATCTTGAACGGY
91234 P T A CGCGCCGAGGTATCTCCATCTTGAACGGTY
91234 T C A ACTGACCGTTCAAGATGGACATGGTTATCCTTAGGCTCTTCTTAATTCAGTCAGATCTTACTTCAACAATACCTTGGAA
91234 T T A ACTGACCGTTCAAGATGGACATAGTTATCCTTAGGCTCTTCTTAATTCAGTCAGATCTTACTTCAACAATACCTTGGAA
TGGGTTCCAAGGTATTGTTGAAGTAAGATCTGACTGAATTAAGAAGAGCCTAAGGATAAC[CT]ATCTCCATCTTGAACGGTCAGTCAAAATGGTGATAGAACAAGTTAG
91234 IS [CT] GAGAGGTAAAAAG
91247 I A CCAGAGCCCAGGCCAGCTGCTTT
91247 P C A CGCGCCGAGGCCCAAGTCACGCGY
91247 P G A ATGACGTGGCAGACGCCCAAGTCACGCY
91247 T C A TCCTCGCGTGACTTGGGGAAGCAGCTGGCCTGGGCTCTGGGA
91247 T G A TCCTCGCGTGACTTGGGGAAGCAGCTGGCCTGGGCTCTGGGA
AGGGGCTCTGGGTGGGCTCAGGCCTCCTGGGTCATCCCAGAGCCCAGCCAGCTGCTT[CG]CCCAAGTCACGCCAGGAGCATGGCCACAGACGACTGCCCCTCCTGAGC
91247 IS [CG] TGTGTTGGAATT
91257 I S AGGAAATGGTGAAGATGTTGTGATTTATGGAGCCCATCAATGTTACTT
91257 P C S ATGACGTGGCAGACGTTCATAATGAGAAAAACTGTTGY
91257 P T S CGCGCCGAGGATTCATAATGAGAAAAACTGTTGCY
91257 T C S GAATGCAACAGTTTTTCTCATTATGAACAGTAACATTGATGGGTCCATAAATCACAACATCTCACCATTTCCTCC
91257 T T S GAATGCAACAGTTTTTCTCATTATGAATAGTAACATTGATGGGTCCATAAATCACAACATCTCACCATTTCCTCC
CACGGAGTCATCCTTTATTCAGGATGATGGTCTGAATGCAACAGTTTTTCTCATTATGAA[CT]AGTAACATTGATGGGTCCATAAATCACAACATCTCACCATTTCCTCC
91257 IS [CT] AGGAAAGTGCTTT
91280 I S CCTATGCAGAAACATGAGGTTTACATGACTAATGTCTTACCACATTGAGTAGT
91280 P C S ATGACGTGGCAGACGTTCATCACATCAAACACAAAY
91280 P T S CGCGCCGAGGATTCATCACATCAAACACAAAGY
91280 T C S GAAGCTTTGTGTTTGATGTGATGAACCTACTCAATGTGGTAAGACATTAGTCATGTAAACCTCATGTTTCTGCATAGGGA
91280 T T S GAAGCTTTGTGTTTGATGTGATGAATCTACTCAATGTGGTAAGACATTAGTCATGTAAACCTCATGTTTCTGCATAGGGA
GTATAAGAACTATAATGAGAATCTAACTCTGATAAGAAGCTTTGTGTTTGATGTGATGAA[CT]CTACTCAATGTGGTAAGACATTAGTCATGTAAACCTCATGTTTCTG
91280 IS [CT] CATAGGGAAAGTTCT
91312 I S CGGGGTCCTATCAGAGAAACAGAAATACATGATGATCAGCTT
91312 P C S ATGACGTGGCAGACGGGGCAGGCTGCY
91312 P T S CGCGCCGAGGAGGGGCAGGCTGCY
91312 T C S TTCGGCAGCCTCCCCCAGCTGATCATCATGTATTTCTGTTTCTCTGATAGGACCCCGCC
91312 T T S TTCGGCAGCCTCCCCTAGCTGATCATCATGTATTTCTGTTTCTCTGATAGGACCCCGCC
GATGCCGGTGAACTAAGAAGTGACACACCTTTGCAAGTCAGGGCTTTCGGCAGCCTCCCC[CT]AGCTGATCATCATGTATTTCTGTTTCTCTGATAGGACCCCGCCAACAC
91312 IS [CT] GCATATTGACCC
91338 I A CCCGAAAGTAGGCCTTGTCTCTCCAGGTCT
91338 P G A ATGACGTGGCAGACGTTGCTGTCCACATCATTY
91338 P A A CGCGCCGAGGATTGCTGTCCACATCATTY
91338 T G A CAGCAATGATGTGGACAGCAACGACCTGCAGACACAACAGCCCTACTTTCCGGCCG
91338 T A A CAGCAATGATGTGGACAGCAATGACCTGCAGACACAACAGCCCTACTTTCCGGCCG
ACCTCAGGGCTCCTCTGTAGAGGGCCAGCGCCCCAAAGTAGGCCTTGTCTCTCCAGGTC[GA]TTGCTGTCCACATCATTGCTGTCTGGGGTCCCTGCAGCAGGAAAGAT
91338 IS [GA] GCTCAGCCTGCCC
91400 I A CGGCAGGGCAGCAAAGAGAGAGCAAGGT
91400 P G A ATGACGTGGCAGACGCTCGCCCCAGGY
91400 P A A CGCGCCGAGGACTCGCCCCAGGAY
91400 T G A CGCGTCCTGGGGCTAGCCCTTCCTCTCTCTTTCCTCCCCTCCCGGG

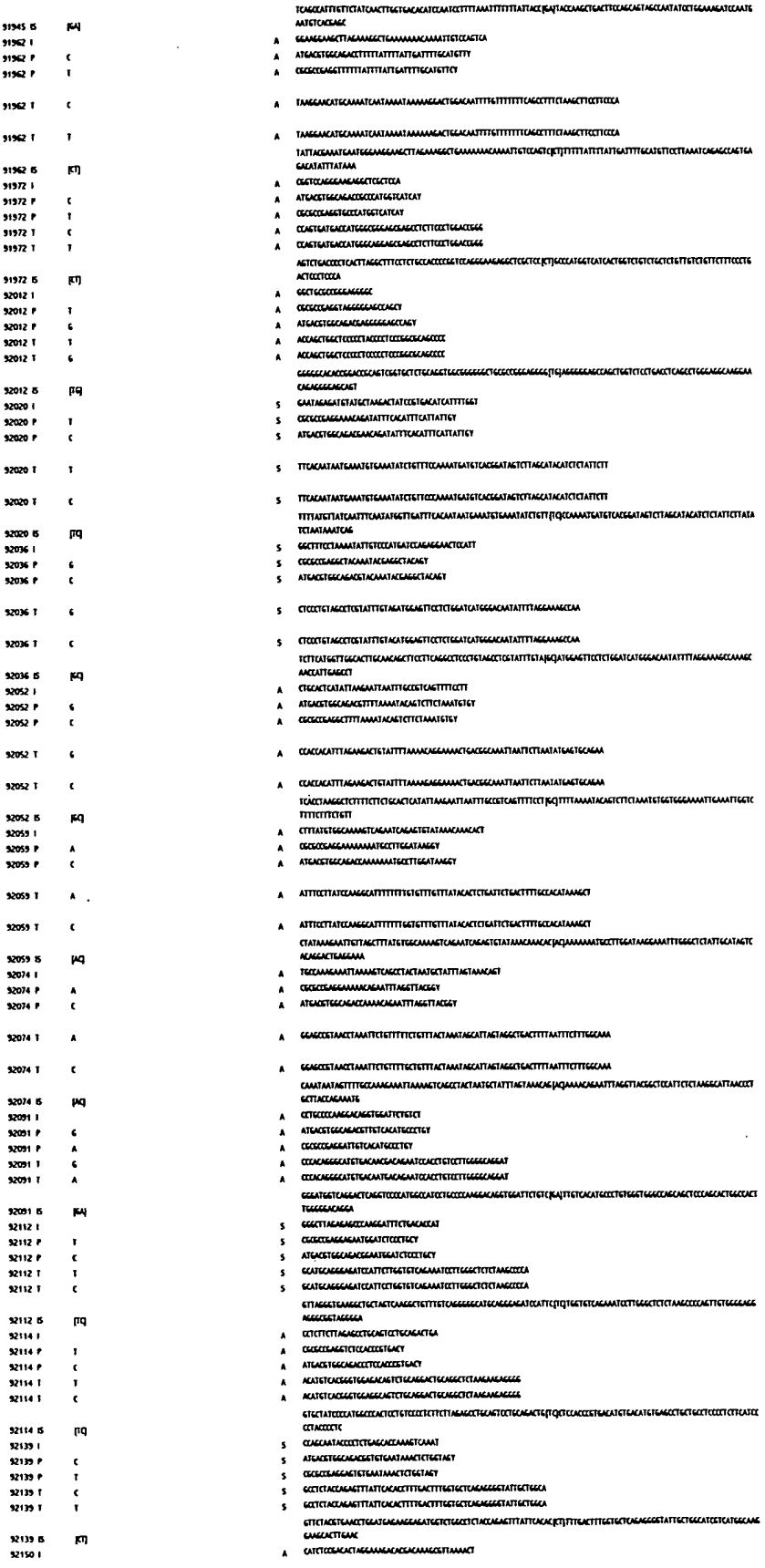


91400 T A A CGCGTCCTGGGGCGAGTCCTTCCTCTCTCCTTTCCTCCCCTCCCGGG
91400 IS [GA] GCTGGACGACGCTTCAAAGCCAGTCCGGGGGCCCCCGGCAGGGGCAGGAAAGCAGACAGCAAGCAAGCTCACTCGCCCCAGCACGCGAGGCCTCACCCCAGCACCACGTTGGCGTAGA GTTCCCGCCCGTC
91419 I S CGTCACGCTGTTTCAGATTGCAAAATAGAATTTCTGTTTAAAAATGGCATATATT
91419 P T S CGCGCCGAGGATGTGTTTTTGTGTGTGGTY
91419 P C S ATGACGTGGCAGACGTGTGTTTTTGTGTGTGGY
91419 T T S GTAAACCACACACAAAAACACATATATATGCCATTTTTAAACAGAAATTCTATTTTGCAATCTGAAACAGCGTGACGTG
91419 T C S GTAAACCACACACAAAAACACACATATATGCCATTTTTAAACAGAAATTCTATTTTGCAATCTGAAACAGCGTGACGTG
91419 IS [TC] TCTGAATCCACTCACATCTAATTGAGTTACATTTGACTGTAAACCACACACAAAACACAGTCATATATGCCATTTTTAAACAGAAATTCTATTTTGCAATCTGAAACAG CGTGACGTGGGGC
91430 I T S TGGGTTGTGTGAAGCAATGAGTCCAGGAGCCT
91430 P C S ATGACGTGGCAGACGAGGTTGTTCATTCAGTTTAAAY
91430 P T S CGCGCCCGAGGAAGGTTGTTCATTCAGTTTAAACY
91430 T C S AGGAGTTTAAACTGAATGAACAACCTCGGCTCCTGGACTCATTGCTTCACAACCCATC
91430 T T S AGGAGTTTAAACTGAATGAACAACCTTGGCTCCTGGACTCATTGCTTCACAACCCATC
91430 IS [CT] GATCAGGCCAACCCCAAAGAAGAAGTGACCAAGCAGGAGGATTTAAACTGAATGAACAACCT[CT]GGCTCCTGGACTCATTGCTTCACAACCCATCTACCCCTGGATGAAGT TATCTGGCTTCAA MOEP
91433 I A GCCCAGCCCCCCGGCACA
91433 P C A ATGACGTGGCAGACCAGTTGGGCACAGCY
91433 P T A CGCGCCGAGGTAGTTGGGCACAGCGY
91433 T C A CACGCGCTGTGCCCAACTGGTGCCGCGGGGCTGGGCGG
91433 T T A CACGCGCTGTGCCCAACTAGTGCCGCGGGGCTGGGCGG
91433 IS [CT] GGACTGGATCTGCTGCGCCTGCCAGAAGACCAGGTAAGCGGCCGCCCAGCCCCGCGGCACT[CT]AGTTGGGCACAGCGCGTGGTCTCGGCTCCCAGCAGCGCCCTCCCGCTCC GCACCCCACTC
91434 I A GCAATGGTAATTATACTTAAGAATCATTGTGTGTTAAAATATTCCCCACT
91434 P G A ATGACGTGGCAGACGTACAGATTATTTTTATCATCTTTTCCY
91434 P A A CGCGCCGAGGATACAGATTATTTTTATCATCTTTTCCCY
91434 T G A TTTAGGGAAAAGATGATAAAAATAATCTGTACGTGGGGAATATTTTAACACACAATGATTCTTAAGTATAATTACCATTGCAA
91434 T A A TTTAGGGAAAAGATGATAAAAATAATCTGTATGTGGGGAATATTTTAACACACAATGATTCTTAAGTATAATTACCATTGCAA
91434 IS [GA] GATTTTGTATTGCAATGGTAATTATACTTAAGAATCATTGTGTGTTAAAATATTCCCCACTGATACAGATTATTTTTATCATCTTTTCCCTAAAATAAAATTCTCAGCAT TTAACCTATGCAT
91451 I A CCTGAGAACAAAGCATGCTAGTTTTCCCTGGGTTATGTAAAATTT
91451 P A A CGCGCCGAGCACATGTAGCTTTTCCAAGAAY
91451 P C A ATGACGTGGCAGACCCATGTAGCTTTTCCAAGAY
91451 T A A GATCTTCTTGGAAAAGCTACATGTAATTTTACATAACCCAGGGAAAACTAGCATGCTTTGTTCTCAGGCT
91451 T C A GATCTTCTTGGAAAAGCTACATGGAATTTTACATAACCCAGGGAAAACTAGCATGCTTTGTTCTCAGGCT
91451 IS [AC] TGACCATGGCAGGGAGCCTGAGAACAAAGCATGCTAGTTTTCCCTGGGTTATGTAAAATT[AC]CATGTAGCTTTTCCAAGAAGATCTTGCAGGGTCAGGCTCCTGCCTGT CTCTCCAGCTTCA
91457 I A AGCCACACTGAATGCTGGGATGCAGACAA
91457 P C A ATGACGTGGCAGACCGGGAATAAAGATGAGTAGAAY
91457 P T A CGCGCCGAGGTGGGAATAAAGATGAGTAGAAY
91457 T C A AGATGTYCTACTCATCTTTATTCCCGTGTCTGCATCCCAGCATTCAGTGTGGCTTA
91457 T T A AGATGTTCTACTCATCTTTATTCCCATGTCTGCATCCCAGCATTCAGTGTGGCTTA
91457 IS [CT] ATGTTTGTAACCATTTGGAAAAGTGTATTCTAAGCCACACTGAATGCTGGGATGCAGACACAGTCTGGGAATAAAGATGAGTAGAACATCTCTCAGAAATCCCAAGTAGTAT TTACAGCCTCTGTG
91470 I S GGCAGGTGGTGTCACTTGCGCAT
91470 P T S CGCGCCGAGGAACAGCATCGAGGCCY
91470 P G S ATGACGTGCCAGACACAGCATCGAGGCY
91470 T T S AGGAGGCCTCGATGCTGTTTGCGCAGGTGACACCACCTGCCCT
91470 T G S AGGAGGCCTCGATGCTGTGTGCGCAGGTGACACCACCTGCCCT
91470 IS [TG] TCACCACAGGCCCCCAGAGAAGGAGCAGCGCCCACCCCACAGAGGAGGCCTCGATGCTGT[TG]TGCGCAGGTGACACCACCTGCCCTCAGGACGTGACGCTGCCCAGGCT GCGGGTTCAGAAC
91478 I A CCTGCAGAAGATCTTGCTGTAGTGCATGTAGGCT
91478 P A A CGCGCCGAGGAGAAACGATGACCCCAY
91478 P G A ATGACGTGGCAGACGGAAACGATGACCCCAY
91478 T A A AGCTTGGGGTCATCGTTTCTGCCTACATGCACTACAGCAAGATCTCTGCAGGT
91478 T G A AGCTTGGGGTCATCGTTTCCGCCTACATGCACTACAGCAAGATCTCTGCAGGT
91478 IS [AG] GCAGCTACTCAGGCGCTGGGAGCTCACCCTGCAGAGATCTTGCTGTAGTGCATGTAGGC[AG]GAAACGATGACCCCAAGCTTGCCCTTGTTTCCCTGACAGACAGAGAG ACAGGGATGAGGG
91514 I S ACTAATCAGACGTGGACCTCAACTTCTGATTGCAGAACACT
91514 P C S ATGACGTGGCAGACGCCGGAGATTGCTGY
91514 P T S CGCGCCGAGGACCGGAGATTGCTGY
91514 T C S AGCAGCAGCAATCTCCGGCGTGTCTCTGGAATCAGAAGTTGAGGTCCACGTCTGATTAGTTC
91514 T T S AGCAGCAGCAATCTCCGGCGTGTCTCTGGAATCAGAAGTTGAGGTCCACGTCTGATTAGTTC
91514 IS [CT] GAGGCCAATCAGCAGTTTAGGCGCACAGGTCCGGGCTCAGAAAGCAGCAGCAATCTCCGG[CT]CTGTTCTGGAATCAGAAGTTGAGGTCCACGTCTGATTAGTTCCCTTC GTTTCATTAGACT ACOX3
91555 I A GGGAGAAGCAGGAAGAGCAGGAAGCAGA
91555 P C A ATGACGTGGCAGACGTGGGGAACCTGGY
91555 P T A CGCGCCGAGGTGTGGGGAACCTGGY
91555 T C A TTGTCCAGGTTCCCCACAGCTCCCTTCCTCCTCTTCCTCTCCTCCCCA
91555 T T A TTGTCCAGGTTCCCCACACTCCCTTCCTCCTCTTCCTCTCCTCCCCA
91555 IS [CT] CATCTTGAGTTTCAGTGACTCTGACTTCGGTGGGGAGGAGGAAGAAGAGGAGGAAGGGAG[CT]GTGGGGAACCTGGACAACCTCAGCTGCTTCCATCCAGCTGACATCT TTGGTACTAGTGAC
91566 I S TCATGGAAGGTCTCTCTTTCCTCAAGCCACTTGTGGA
91566 P G S ATGACGTGGCAGACGTTTGTCCTGCTCTGY
91566 P A S CGCGCCGAGGTGTTTGTCCTGCTCTGY
91566 T G S AGGTCCAGACGAGGACAAACGCCACAAGTGGCTTGAGGAAAGAGAACCTCCATGAAA
91566 T A S AGGTCCAGACGAGGACAAACACCACAAGTGGCTTGAGGAAAGAGAACCTCCATGAAA
91566 IS [GA] GGAAGAAGACTGTACCTCCTCCCACATCTCATCTCAGGGCAGGTCCAGACAGGACAAACAGAACCACAAGTGGCTTGAGGAAAGAGAACCTCCATGAAAGGTGTTTCCCT CCTGGGGAAGCCA
91575 I S CAAATGGCTTGGTGTGCATTTGCTAGAAGGAAGAGATCTATATTTTACAAAGTATAGGA
91575 P A S CGCGCCGAGGTATGAGAGCAGCTGGCY
91575 P G S ATGACGTGGCAGACCATGAGAGCAGCTGGY
91575 T A S ACCCGCCAGCTGCTCTCATACCTATACTTTGTAAAATATAGATCTCTTCTTCTAGCAAATGACACCAAGCCATTTGGC
91575 T G S ACCCGCCAGCTGCTCTCATGCCTATACTTTGTAAAATATAGATCTCTTCTTCTAGCAAATGACACCAAGCCATTTGGC
91575 IS [AG] AAGACACAAAATAGCATAAACTCATGGGCTTTTATTCCCATACCCGCAGCTGCTCTCATJAG[CT]ATACTTTGTAAAATATAGATCTCTTCTTCTAGCAAATGACACC AAGCCATTTGGCA
91583 I S CGCAGCCCAGGCGACCTGCA
91583 P G S ATGACGTGGCAGACCGGGCTCTGGAGGY
91583 P A S CGCGCCGAGGTGGGGTCTGGAGGCY
91583 T G S AGCCGCCTCCAGACCCCGCACGTCGCCTGGGCTGCGCG



DNASE2









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92304 I		S	GGATGTGACCTCAGGGTGCAGAGGGGA
92304 P	G	S	ATGACGTGGCAGACCGGGTGGGGTCATGY
92304 P	A	S	CGCGCCGAGGTGGGTGGGGTCATGY
92304 T	G	S	GGAACATGACCCCACCCGCCCCTCTGCACCCTGAGGTCACATCCGA
92304 T	A	S	GGAACATGACCCCACCCACCCCTCTGCACCCTGAGGTCACATCCGA
92304 IS	[GA]		CATCGTGCGCCATCTGTCTACTGTCCACCGCAGAGGTGAAACGGGAACATGACCCCACCC[GA]CCCCTCTGCACCCTGAGGTCACATCCGACCAGCACAGTCGTGCCTCACC CTGCACCTGAG
92306 I		S	GCACCATCCAGTACCGGCTGCGCTAA
92306 P	G	S	ATGACGTGGCAGACCGTCATGGTGGTGAGTY
92306 P	A	S	CGCGCCGAGGTGTCATGGTGGTGAGTY
92306 T	G	S	CAGGACTCACCACCATGACGTAGCGCAGCCGGTACTGGATGGTGCCG
92306 T	A	S	CAGGACTCACCACCATGACATAGCGCAGCCGGTACTGGATGGTGCCG
92306 IS	[GA]		CTGGTCACCTCAACCCACCTGCCCATAAAGAGGGCCTGGGCCCAGGACTCACCACCATGAC[GA]TAGCGCAGCCGGTACTGGATGGTGCCCAAGAGTCCCAGGATGACGAT GATGATGTGGACA
92333 I		A	ACGATCCTCCCTGGAACGGGGCCA
92333 P	C	A	ATGACGTGGCAGACCGTGGTTATCACAGCCY
92333 P	T	A	CGCGCCGAGGTGTGGTTATCACAGCCCY
92333 T	C	A	TACAGGGCTGTGATAACCACGGCCCCCGTTCCAGGGAGGATCGTGT
92333 T	T	A	TACAGGGCTGTGATAACCACAGGCCCCCGTTCCAGGGAGGATCGTGT
92333 IS	[CT]		GAAATGCAGGAGTCCTTGGAGGCACAGAGGAATCCCACACGATCTCTCCCTGGAACGGGGCC[CT]GTGGTTATCACAGCCCTGTACAAGGCAGCCTGACCCTTCCTTTCTGGC CATGTGGGTGGC
92337 I		A	CAAGTGATTCACATTTTCTTGTCATCTGTTCAAGCTACCAAAAGAAAATTAATGTTTT
92337 P	A	A	CGCGCCCAAGAATAAATGGCTAGGAAACTCGY
92337 P	G	A	ATGACGTGGCAGACGTAAATGGCTAGGAAACTCGY
92337 T	A	A	AAGACAAGTTTCGTAGCCATTTATAAACATTAATTTTCTTTTGGTAGCTTGAACAGATGACAAGAAAAATGTGAATCACTTGCC
92337 T	G	A	AAGACGAGTTTCCTAGCCATTTACAAACATTAATTTTCTTTTGGTAGCTTGAACAGATGACAAGAAAAATGTGAATCACTTGCC
92337 IS	[AG]		GGCAAGTGATTCACATTTTTCTTGTCATCTGTTCAAGCTACCAAAAGAAAATTAATGTTT[AG]TAAATGGCTAGGAAACTCGTCTTTCATCATTGAATAGGGTAGAAT ACAGAGTGGGAGT
92341 I		A	CCCCAAAAGCCAGGGAGAGAAACAGCACC
92341 P	G	A	ATGACGTGGCAGACGAAGGTCAAGGAGAGGAY
92341 P	T	A	CGCGCCGAGGTAAGGTCAAGGAGAGGAGY
92341 T	G	A	GGGGCTCCTCTCCTTGACCTTCGTGCTGTTTCTCTCCCTGGCTTTTGGGGCA
92341 T	T	A	GGGGCTCCTCTCCTTGACCTTACTGCTGTTTCTCTCCCTGGCTTTTGGGGCA
92341 IS	[GT]		GGCAGATGAACACTCACCTGTTCCGTAGCTTGCCCCAAAAGCCAGGGAGACGAAACAGCAC[GT]AAGGTCAAGGAGAGGAGCCCCTTGGGATCCATCAGCCAATGAGGAG AAGGAAGGGATCCT
92347 I		A	GCTTATGGCAGTATCTCAGTGAGTAAAATGTCTAACGGTTTTCCTTTGTTTATTAAAAGT
92347 P	G	A	ATGACGTGGCAGACGTTACTTACAAGGACAAGAAGY
92347 P	A	A	CGCGCCGAGGATTACTTACAAGGACAAGAAGGY
92347 T	G	A	ACTTCCTTTCTGTCCTTGTAAGTAACCTTTTAATAAACAAGGAAAACCGTTAGACATTTTACTCACTGAGATACTGCCATAAGCC
92347 T	A	A	ACTTCCTTTCTGTCCTTGTAAGTAATCTTTTAATAAACAAGGAAAACCGTTAGACATTTTACTCACTGAGATACTGCCATAAGCC
92347 IS	[GA]		GGCTTATGGCAGTATCTCAGTGAGTAAAATGTCTAACGGTTTTCCTTTGTTTATTAAAAG[GA]TTACTTACAAGGACAAGAAAGCAAGTAGAGGCATTATGATTTGGG GATGGATTATTGGGA
92378 I		S	AGCCAGGAGCCTTAAACACGAAGCTTTACAAATCTCAAAAA
92378 P	G	S	ATGACGTGGCAGACCGGAAACAAGTATAAACACTGTY
92378 P	A	S	CGCGCCGAGGTGGAAACAAGTATAAACACTGTAAY
92378 T	G	S	GTCATTACAGTGTTATACTTGTTCCGTTTTGAGATTTGTAAAGCTTCGTGTTTAAGGCTCCTGGCTCA
92378 T	A	S	GTCATTACAGTGTTATACTTGTTTCCATTTTGAGATTTGTAAAGCTTCGTGTTTAAGGCTCCTGGCTCA
92378 IS	[GA]		TGCCAATAATCAGCTGAGTGGTTTTGCAGCTTGAGTCATTACAGTGTTATACTTGTTTCC[GA]TTTTGAGATTTGTAAAGCTTCGTGTTTAAGGCTCCTGGCTCAGGATG CCAAGATGGACCT
92387 I		A	GGAAAAACTATATTAACATTAACACACTAACCCCTCGTCAAAATTAAAAA
92387 P	C	A	ATGACGTGGCAGACCGTGGATTGATCCAGAAGY
92387 P	T	A	CGCGCCGAGGTGTGGATTGATCCAGAAGAY
92387 T	C	A	TACCTCTTCTGGATCAATCCACGTTTTAATTTTGAGGAGGGGGTTAGTGTGTTAATGTTAATATAGTTTTTCCTT
92387 T	T	A	TACCTCTTCTGGATCAATCCACATTTTAATTTTGAGGAGGGGGTTAGTGTGTTAATGTTAATATAGTTTTTCCTT
92387 IS	[CT]		ACTTGTGAAAGGAAAAACTATATTAACATTAACACACTAACCCCTCGTCAAAATTAAAA[CT]GTGGATTGATCCAGAAGAGCTATACAAACACTGAAAGGCATCACG GGTACACCAAGGAA
92390 I		A	TCTCGCTGCGCCCCGGCAA
92390 P	C	A	ATGACGTGGCAGACCCATGGCAGCAGCY
92390 P	T	A	CGCGCCGAGGTCATGGCAGCAGCCY
92390 T	C	A	GAATGGCTGCTGCCATGGTGCCGGGGCGCAGCCAGAGC
92390 T	T	A	GAATGGCTGCTGCCATGATGCCGGGGCGCAGCCAGAGC
92390 IS	[CT]		AGAAGTACAGGGCGGGCGGCCAGGCTCCCCGCGCTCCCAGCTCTCGCTGCGCCCCGGCA[CT]CATGGCAGCAGCCATTCCCCAGCGCCCGCGCTCTCCGGCGCCAGGGGG CGCCAGCCCGC
92398 I		S	TCGATGACACTTCCAGTGGAAGAATTTTCCTTGGTCCT
92398 P	T	S	CGCGCCGAGGATTTTCCCATAATGAAAGTGGAY
92398 P	C	S	ATGACGTGGCAGACGTTTTCCCATAATGAAAGTGGY
92398 T	T	S	CATTTCCACTTTCATTATGGGAAAATGGACCAAGGAAAATTCTCCACTGGAAGTGTCATCGACA
92398 T	C	S	CATTTCCACTTTCATTATGGGAAAACGGACCAAGGAAAATTCTCCACTGGAAGTGTCATCGACA
92398 IS	[TC]		AGTCTTTGGAAAGGGTAAGTTATCGGATGAGGGAACATTTCCACTTTCATTATGGGAAAA[TC]GGACCAAGGAAAATCTCCACTGGAAGTGTCATCGACAGACCTTCT ACAGCGTACCATGT
92446 I		S	GGTGTTCATCAATTAACATGCTGGTGGTGACAAGCAGT
92446 P	C	S	ATGACGTGGCAGACGCCACAATATAAATGCCAGY
92446 P	T	S	CGCGCCGAGGACACAATATAAATGCCAGCY
92446 T	C	S	TATTGCTGGCATTTATATTGTGGCCTGCTTGTCACCACCAGCATGTTAATTGATGAACACCTA
92446 T	T	S	TATTGCTGGCATTTATATTGTGGTCTGCTTGTCACCACCAGCATGTTAATTGATGAACACCTA
92446 IS	[CT]		CAACATCAGGACTAATGCATCTCAGAAACAGAGAACATATTGCTGGCATTTATATTGTGG[CT]CTGCTTGTCACCACCAGCATGTTAATTGATGAACACCTAAGAAGCCA GGCCATTTTGCCC
92450 I		A	TTAAGAAGATAAAACCAAATACATGCATTTATATATGAACACAATACAATATAAACATACT
92450 P	A	A	CGCGCCGAGGAGTATAATGTAGACATTTTTCCTCAY
92450 P	G	A	ATGACGTGGCAGACGGTATAATGTAGACATTTTTCCTCY
92450 T	A	A	ATTTTGAGGAAAAATGTCTACATTATACTGTATGTTTATATTGTATTGTGTTCATATATAAATGGCATGTATTTGGTTTTATCTTCTTAA
92450 T	G	A	ATTTTGAGGAAAAATGTCTACATTATACGGTATGTTTATATTGTATTGTGTTCATATATAAATGCATGTATTTGGTTTTATCTTCTTAA
92450 IS	[AG]		TTAAGAAGATAAAACCAAATACATGCATTTATATATGAACACAATACAATATAAACATACP[AG]GTATAATGTAGACATTTTTCCTCAAAATGCCATGAAGCTTCTGGTG TCTCACTTTAGAAT
92467 I		A	GTGAGAGATGTTTTCATACTAAACTAAAACTTTTTTTCCCCCTATTTCACGAT
92467 P	C	A	CGCGCCGAGGCACCTGAAGCAAGAGAAAY
92467 P	G	A	ATGACGTGGCAGACGACCTGAAGCAAGAGAAAY
92467 T	C	A	CGTTGTTTCTCTTGCTTCAGGTGTCGTGAAATAGGGGGAAAAAAGTTTTTGGTTTAGTATGAAAACATCTCTCACAT



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92467 T G A GGTTGTTTCTCTTGCTTCAGGTCTCGCTGAAATAGGGGGAAAAAAAGTTTTTGCTTTAGTATGAAAACATCTCTCACAT

AGGAAATGTGAGAGATGTTTTCATACTAAACAAAAACTTTTTTTCCCCCTATTTCACGA[CG]ACCTGAAGCAAGAAAACAACGGTAACCTTCCACAGCGTATTTTGTT

92467 IS [CG] TGCCAACTGGTGGC

92478 I S GGGTCCCACAAGCACAGTCACCTTGTAGT

92478 P C S ATGACGTGGCAGACGTCACAGGACATAGGGAT

92478 P T S CGCGCCCAAGGATCACAGGACATAGGGAATT

92478 T C S CCCCATTCCCTATGTCCTGTGACCTACAAGGTGACTGTGCTTGTCGGGACCCCC

92478 T T S CCCCATTCCCTATGTCCTGTGATCTACAAGGTGACTGTGCTTGTCGGGACCCCC

92478 IS [CT] ACCAAATCACCTGATTCACTTCCTTCTTTCTGCAGGTCACCCCATTCCCTATGTCCTGTGA[CT]CTACAAGGTGACTGTGCTTGTCGGGACCCCCAGGCCCAAGAACACAGCC GGAAAGACCTC

92553 I A CCCACTACACGTAACAGTGGTTCAAATCCTTCCCCT

92553 P C A ATGACGTGGCAGACACAGCCTGTCTCCTTT

92553 P A A CGCGCCGAGGAACGCCTGTCTCCTTT

92553 T C A GGTCAAGAACACAGGCGTGGGGGAAGGATTTGAACCACTGTTACGTGTAGTGGGGG

92553 T A A GGTCAAGAACACAGGCGTTGGGGAAGGATTTGAACCACTGTTACGTGTAGTGGGGG

92553 IS [CA] CGGGCACGCTCTCCCTGCTGTCTCCCCCACTACACGTAACAGTGGTTCAAATCCTTCCCC[CA]ACGCCTGTCTCCTTGACCCCAGAACTCGGGGGCTTCTCATATCCCTCTCTT TATTCCCCAC

92559 I S GGGACATCCTGCCGCTGTGTATACCCTT

92559 P T S CGCGCCCAAGGAAAACCCCCCAAAGTGY

92559 P C S ATGACGTGGCAGACGAAACCCCCAAAGTGY

92559 T T S CACCCACTTTGCGGGGGTTTTAGGGTATACACAGCGGCAGGATGTCCCCA

92559 T C S CACCCACTTTGCGGGGGTTTCAGGGTATACACAGCGGCAGGATGTCCCCA

92559 IS [TC] CCTCAGGGGGATCCCCATGCCTTTACCCTTTCCTGGACACCCACCCACTTTGCGGGGGTTT[TC]AGGGTATACACAGCGGCAGGATGTCCCCACAGCACAGCCTCACAGCTGCT GGCACAGACCA

92567 I A CACCACTTGAGATTTCCACAGGACCCAGACCTTA

92567 P C A ATGACGTGGCAGACCGTTCATTCTAAAGAGACTGAT

92567 P T A CGCGCCGAGGTGTTCATTCTAAAGAGACTGATAGY

92567 T C A AATTCTATCAGTCTCTTTAGAATGAACGAAGGTCTGGGTCCTCTGGAAATCTCAAGTGGTGCT

92567 T T A AATTCTATCAGTCTCTTTAGAATGAACGAAGGTCTGGGTCCTCTGGAAATCTCAAGTGGTGCT

92567 IS [CT] TGCTCAGCTTTTAAAGCTGCAGGCAGCACCACTTGAGATTTCCACAGGACCCAGACCTT[CT]GTTCATTCTAAAGAGACTGATAGAATTAAAAACAAAGTGCCTTATCT TCCACTGGAGTTC

92571 I S CGAACATGGAGCGGAAGGCGCT

92571 P C S ATGACGTGGCAGACGGGGGGCTGGTGY

92571 P T S CGCGCCGAGGAGGGGACTGGTGY

92571 T C S GCCGCACAGCCCCCCGCGCTCCCGCTCCATGTTCGTG

92571 T T S GCCGCACAGCCCCTGCCGCTCCCGCTCCATGTTCGTG

92571 IS [CT] CGGAGCCCGCACAGGGGCCCCTGCACGCCCCGCCCGCCGCTGCGCCGCACCAGCCCC[CT]GCCGCCTCCCGCTCCATGTTCGTGGCCCTCCTGGGGCTGGGGCTGGCCA GGTTGTCTGC

92580 I A CAGGGTGGGTTTGCCTGTGAGCAGTTTT

92580 P G A ATGACGTGGCAGACGGGGAGGGAAGCGY

92580 P C A CGCGCCGAGGAGGGGAGGAAGCGY

92580 T G A GGCTGGCTTCCCTCCCCAAACTGCTCACAGGCAAACCCACCCTGCA

92580 T C A GGCTGGCTTCCCTCCCCAAACTGCTCACAGGCAAACCCACCCTGCA

92580 IS [GC] AGGTGGAAGAGAGAGGAGAAAACAGAGCATGCAGGGTGGGTTTGCCTGTGAGCAGTTT[GC]GGGAGGGAAGCAAGCCAGCCCAGCACTGAGGCCATCGGAAGGGGCACGG GCGGGGGAAGTGGAG

92581 I S CCGTGCCCCTTCCCATGGCCTCT

92581 P T S CGCGCCGAGGAGTCCTGGGCTCGY

92581 P C S ATGACGTGGCAGACGGTCCTGGGCTCGY

92581 T T S GAAGCAAGCCCAGGACTGAGGCCATCGGAAGGGGCACGGGC

92581 T C S GAAGCAAGCCCAGGACTCAGGCCATCGGAAGGGGCACGGGC

92581 IS [TC] CCAGAGCATGCAGGGTGGGTTTGCCTGTGAGCAGTTTGGGGCAGGGAAGCAAGCCCAGCACTG[TC]GAGGCCATCGGAAGGGGCACGCCCGGGGGAGGTGGAGGGCAGCGAG GGTGCTGGTCATAGG

92588 I A CTCCACCTTGGCGTGCAGCTCCCT

92588 P G A ATGACGTGGCAGACGGCACAGGTCCTGGY

92588 P A A CGCGCCGAGGAGCACAGGTCCTGGY

92588 T G A GCCCCCAGGACCTGTGCCGGGAGCTGCACGCCAAGGTGGAGCT

92588 T A A GCCCCCAGGACCTGTGCTGGGAGCTGCACGCCAAGGTGGAGGT

92588 IS [GA] ATTTGGCCTCAATGTGGTATGCTCCTCATCCACCACCTCCACCTTGGCGTGCAGCTCCC[GA]GCACAGGTCCTGGGGGCCGCAGATGGATCATGCAGGTGTGAAGAAGAG GGGAACAGAAC

92628 I A GGAGATGATGTCTCCATGTCACCGGCACAAATAC

92628 P A A CGCGCTGAGGATGAGAGCCAATGGAAGY

92628 P T A ATGACGTGGCAGACTTGAGAGGCAATGGAAGT

92628 T A A TGTCCTTCCATTGCCTCTCATTATTTGTGCCGGGTGACATGGAGACATCATCTCCCC

92628 T T A TGTCCTTCCATTGCCTCTCAATATTTGTGCCGGGTGACATGGAGACATCATCTCCCC

92628 IS [AT] CTCCAAAAACTTTTCCTTAGGACAGGGGAGAGATGATGTCTCCATGTCACCCGGCACAAATA[AT]TGAGAGGCAATGGAAGGAACAATTAGAGCCTGACATTTTAAAGTTAA AAACATGGTCACC

92662 I A GTGAGACCTGGAGGGGACTTCAAGGACTCAT

92662 P G A ATGACGTGGCAGACGTGGGGGAAGGCAT

92662 P A A CGCGCCGAGGATGGGGGAAGGCACY

92662 T G A TTCGGTGCCTTCCCCCACTGAGTCCTTGAAGTCCCCTCCAGGTCTCACCT

92662 T A A TTCGGTGCCTTCCCCCATTGAGTCCTTGAAGTCCCCTCCAGGTCTCACCT

92662 IS [GA] GAAAACTGGTGGTGCCAGCTTTAGGAGGAGGTGAGACCTGGAGGGGACTTCAAGGACTCA[GA]TGGGGGAAGGCACCCAAGGGGCACAGCCAGGTGAGCTTATGGGTG GGCAAGGCCCAGACC

92674 I A CATGGAGGGACCCACAGGGCCTCTACAATT

92674 P G A ATGACGTGGCAGACGGTCCACGCAGGGY

92674 P C A CGCGCCGAGGCGTCCACGCAGGGY

92674 T G A ACAGCCCTGGGTGGACCATTGTAGAGCCCTGTGGGTCCCTCCATGCT

92674 T C A ACAGCCCTGGGTGGACGATTGTAGAGCCCTGTGGGTCCCTCCATGCT

92674 IS [GC] CCCCAGAGGGAGAAACCTGAAGGGACTCTCAGCATGGAGGGACCCACAGGGCTCTACAAT[GC]GTCCACGCAGGGCTGTGGGTCCACCAGAGCTGTTCCATTGCAGCCA CTCCCGTAACAGG

92693 I A GGCCAGTGCGCAGACCAGAGCACC

92693 P G A ATGACGTGGCAGACGAGCGACTCCCGTCY

92693 P T A CGCGCCGAGGTAGCGACTCCCGTCY

92693 T G A GGACGACGGGAGTCGCTCGTGCTCTGGTCTCGCACTGGGCCTA

92693 T T A GGACGACGGGAGTCGCTAGTGCTCTGGTCTCGCACTGGGCCTA

92693 IS [GT] CAGCGGCTCTCGGCTCTCCCCGCTGCTGCTCTCGCTAGGCCCAGTGCGAGACCAGAGCAC[GT]AGCGACTCCCGTCGTCCCCGCCCAGGCAGATGTTGGCCTAGTCCTGGC GCGAACGAGCG

92713 I S CGAAGCACTACACTTCTCTCCAGGGTCAT

92713 P C S ATGACGTGGCAGACGAGCTCTTTCCTCTCAGAY

92713 P G S CGCGCCGAGGCAGCTCTTTCCTCTCAGAY

92713 T C S AAATTCTCAGAGCGAAAGAGCTCTGACCCTGGAGAGAAGTGTGGTGCTTCGGG

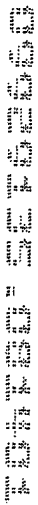
92713 T G S AAATTCTCAGAGCGAAAGAGCTGTGACCCTGGAGAGAAGTGTGGTGCTTCGGG

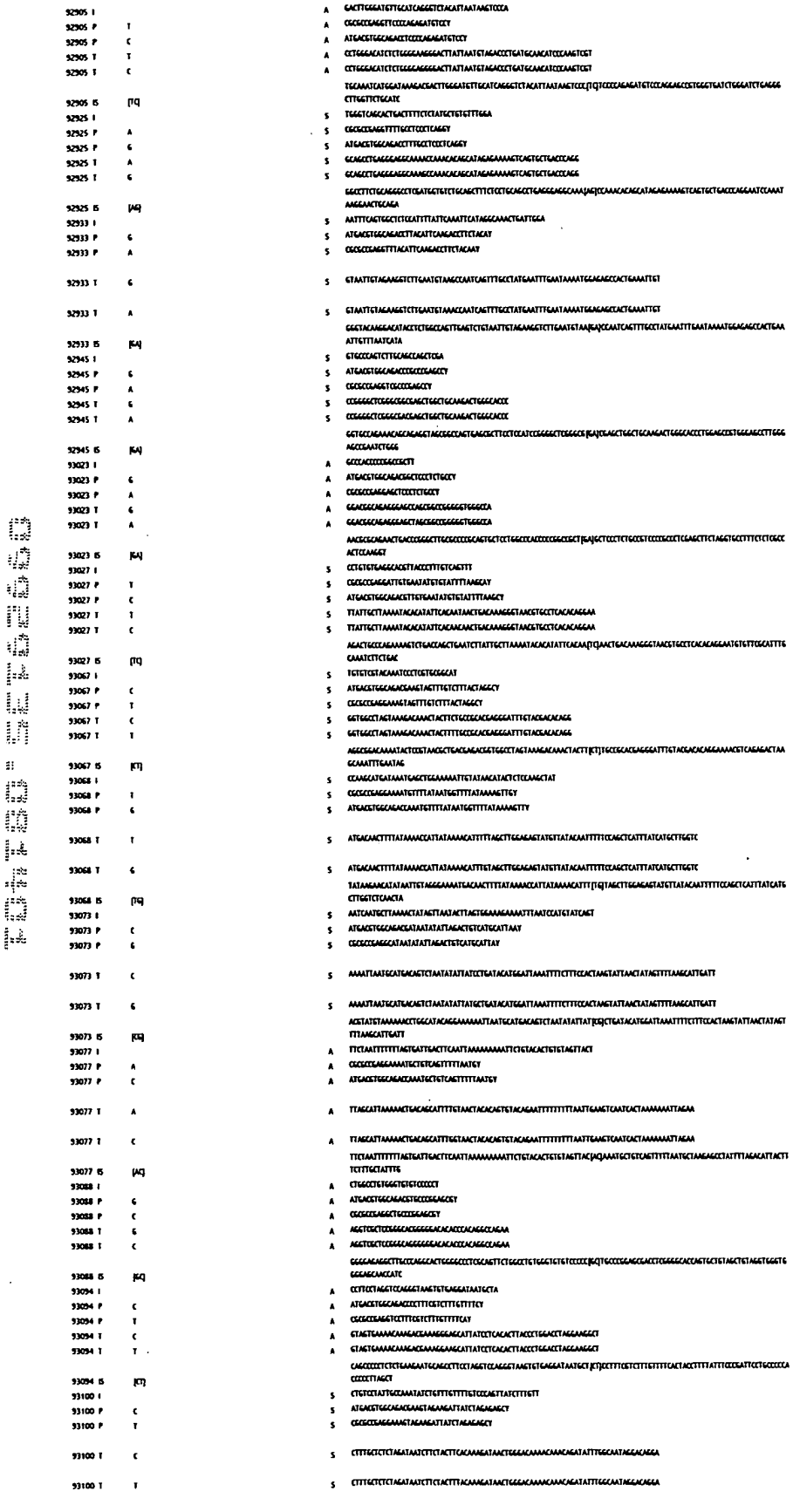
92713 IS [CG] TGGTGTCTCATGGTGGGCTGCGCTCACTGCTTCTCAGAGAAAATTCTCAGAGCGAAAGAGCT[CG]TGACCCTGGAGAGAAGTGTGGTGCTTCGGGCACAGCTCTCGCCCCAGC CTAGTCGTGCCGT

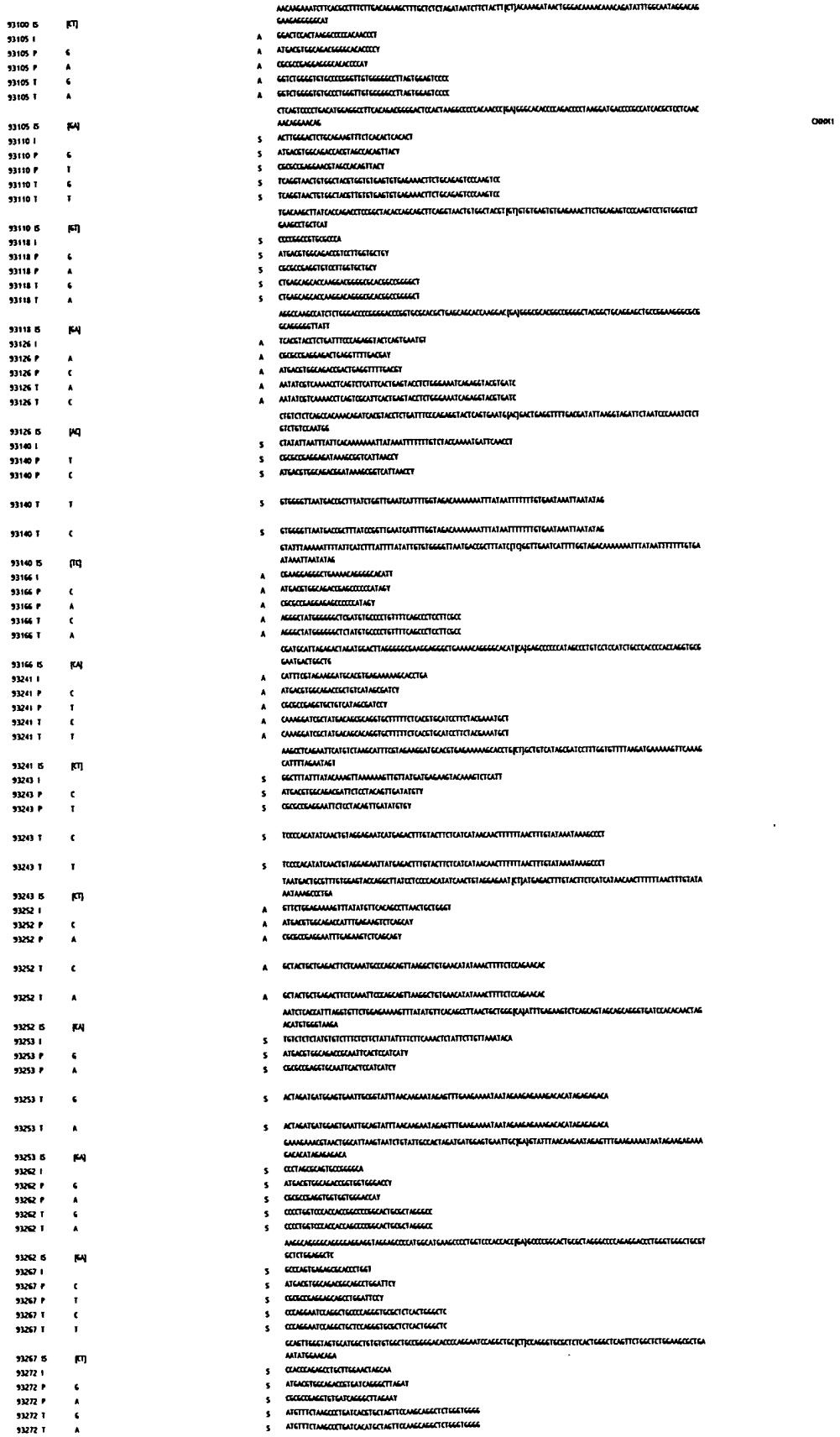
92718 I S GTCCTTTGAATCAGATAATGCCTCTTTCTCGAAATTTAA

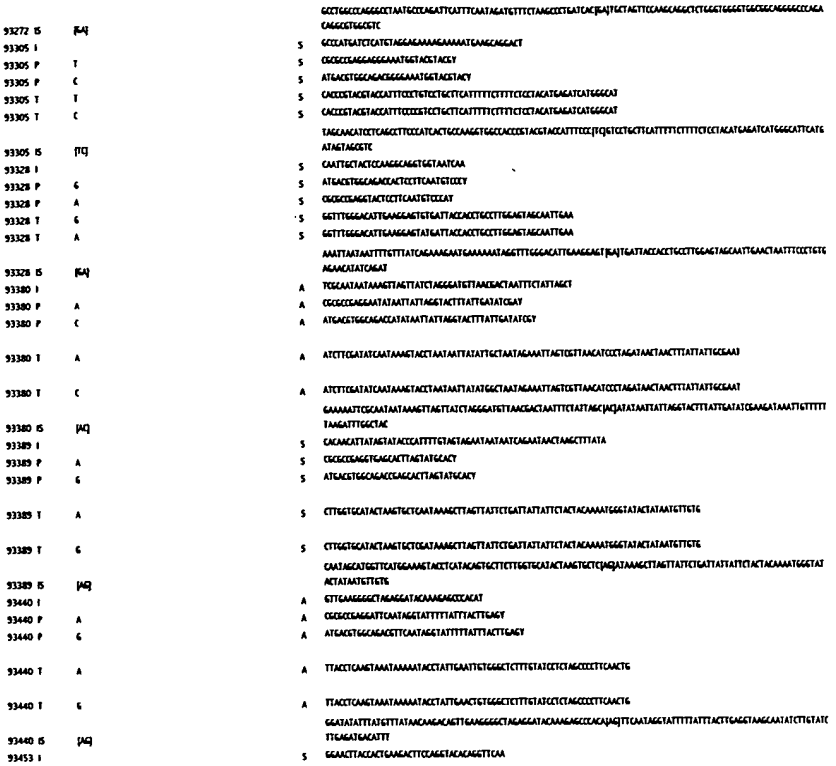
92718 P G S ATGACGTGGCAGACCCTGAAAGAAATCATCGAAATGY

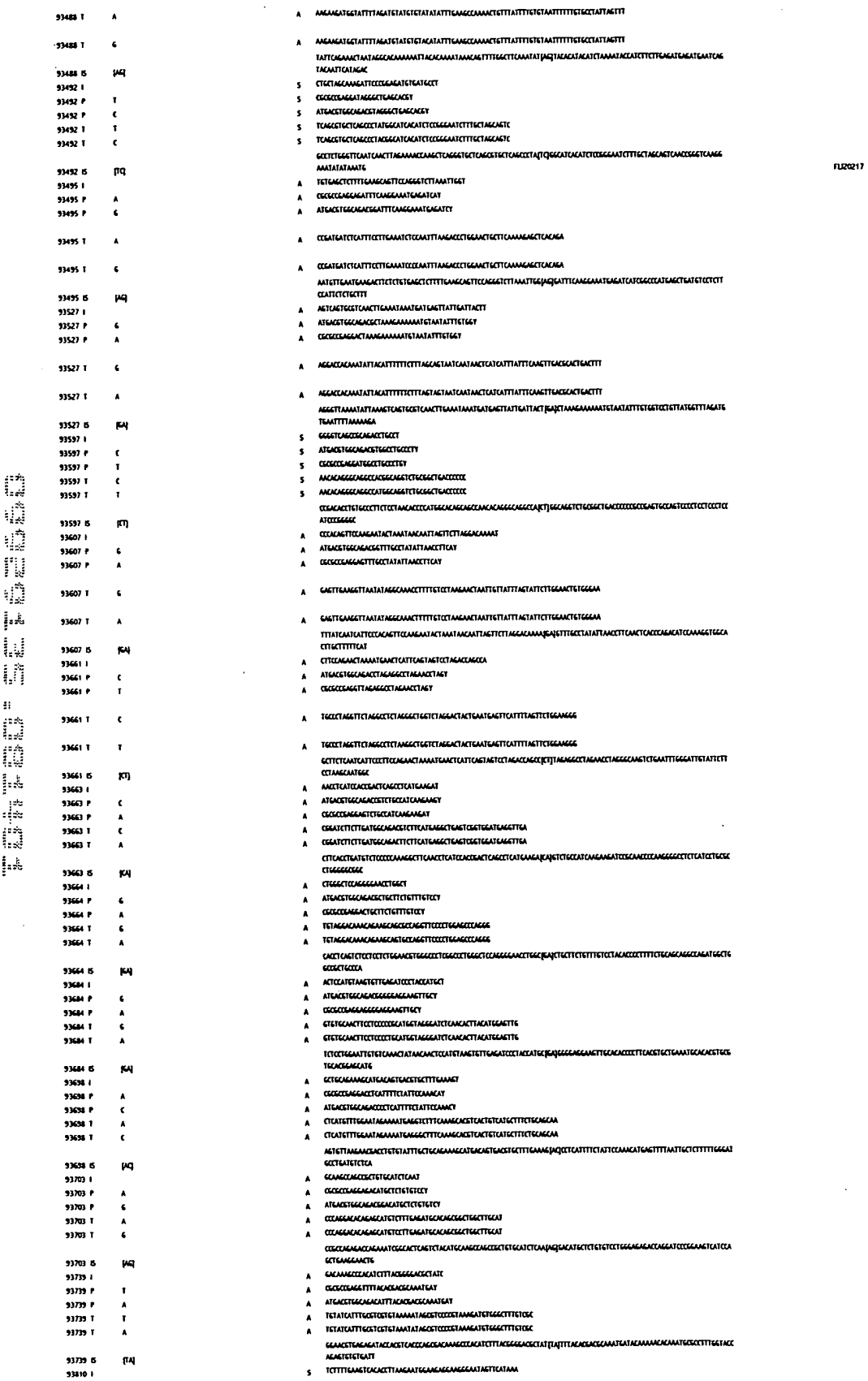
92718 P A S CGCGCCGAGGTCTGAAAGAAATCATCGAAATGY











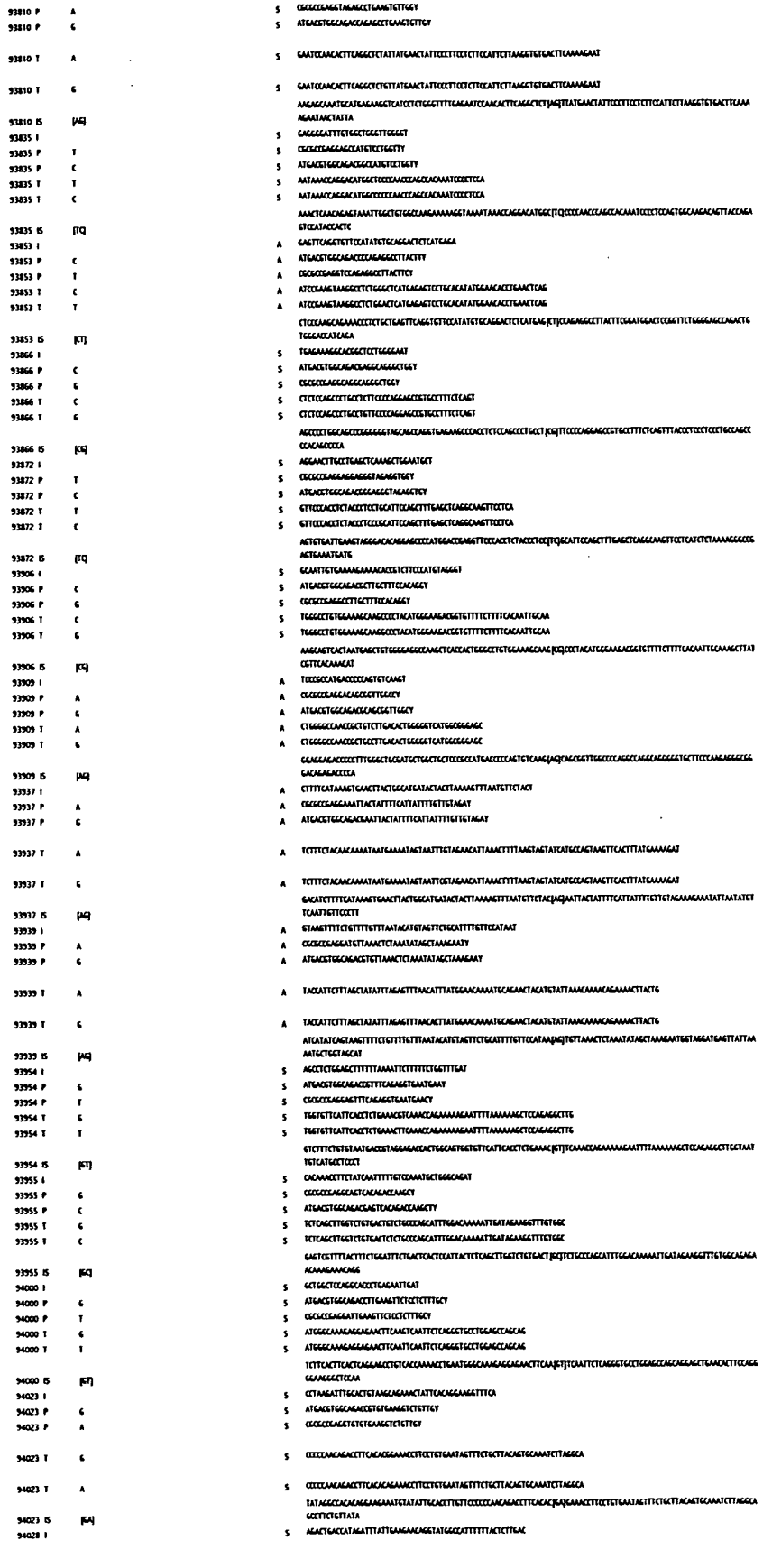
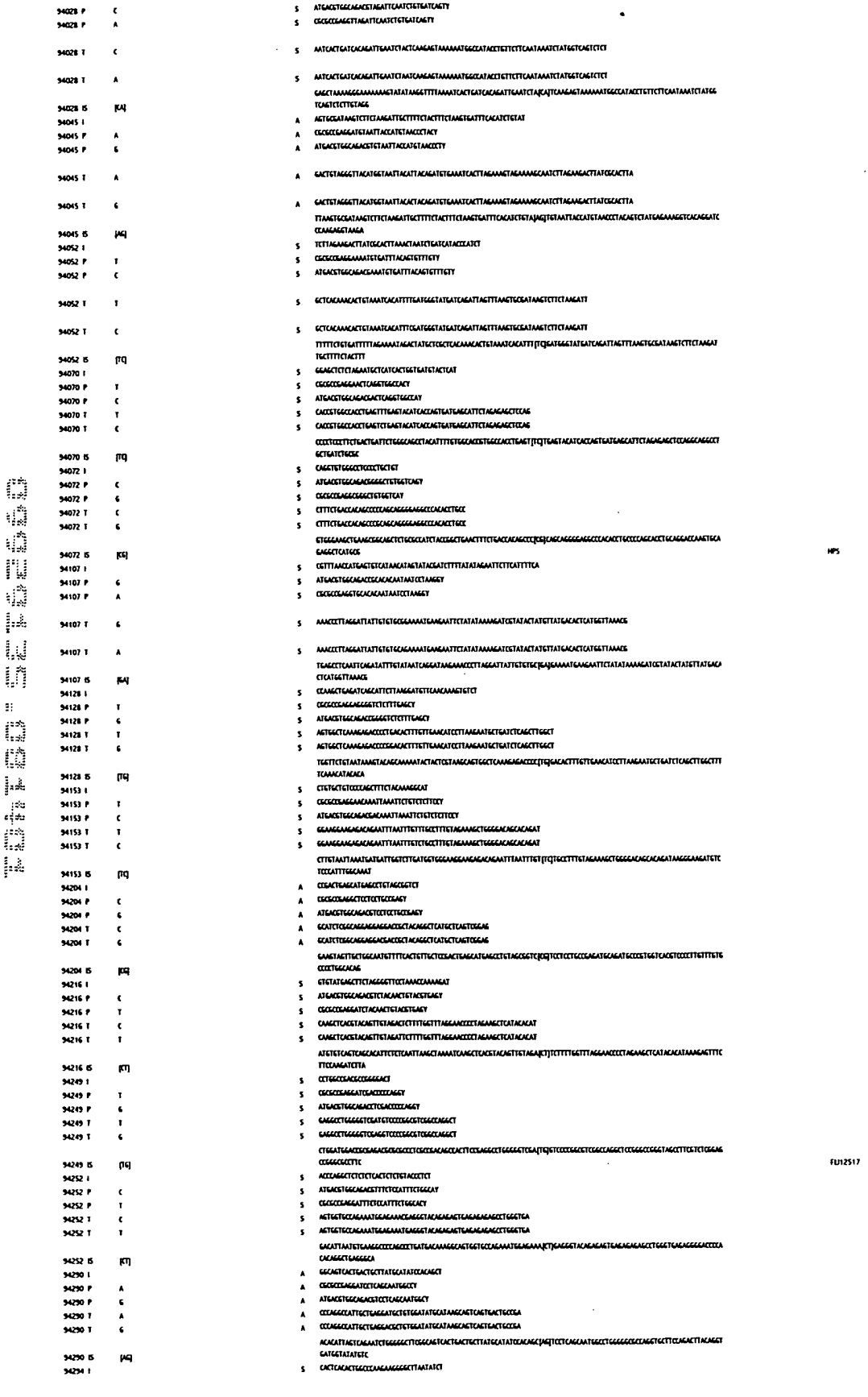
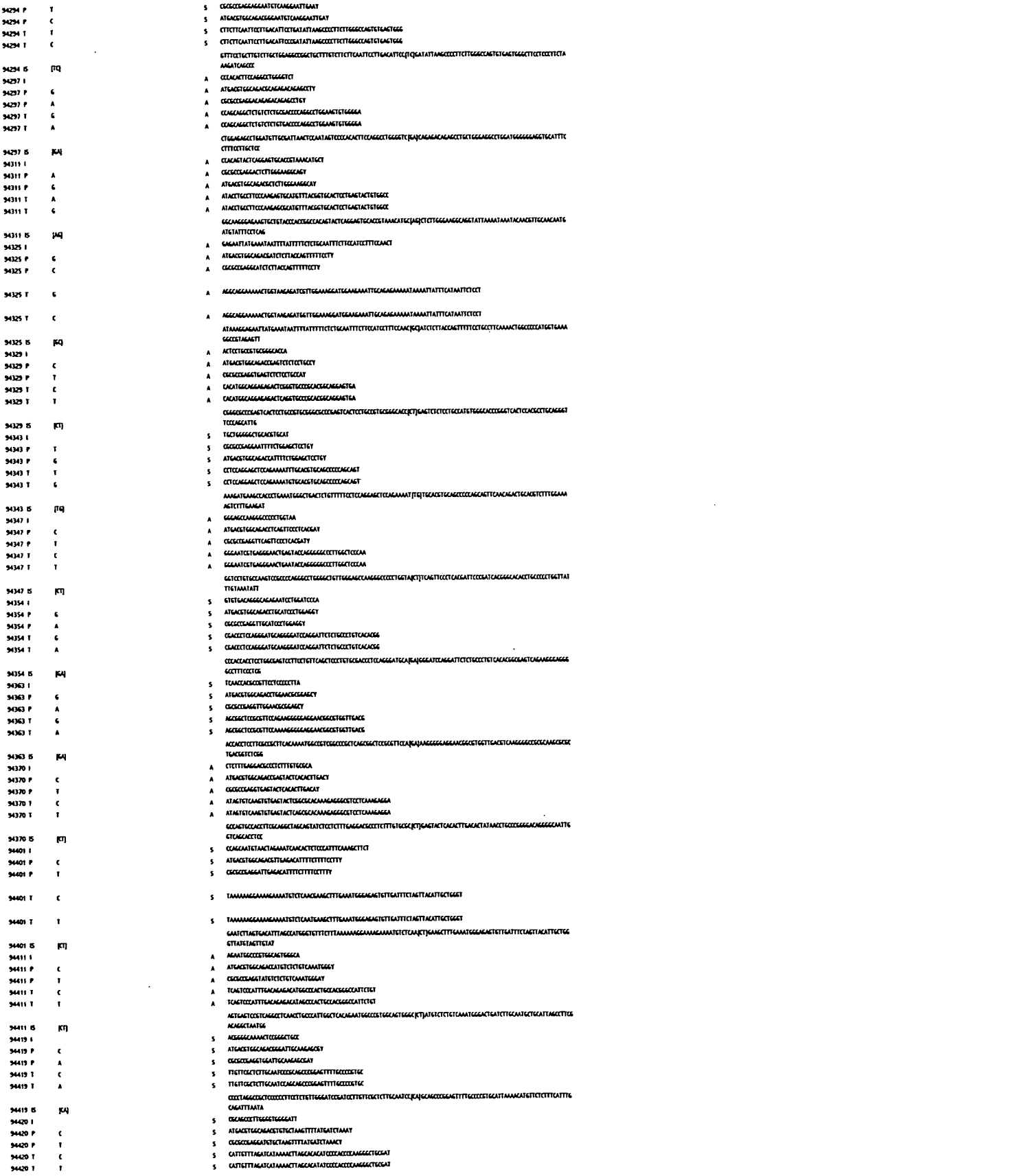
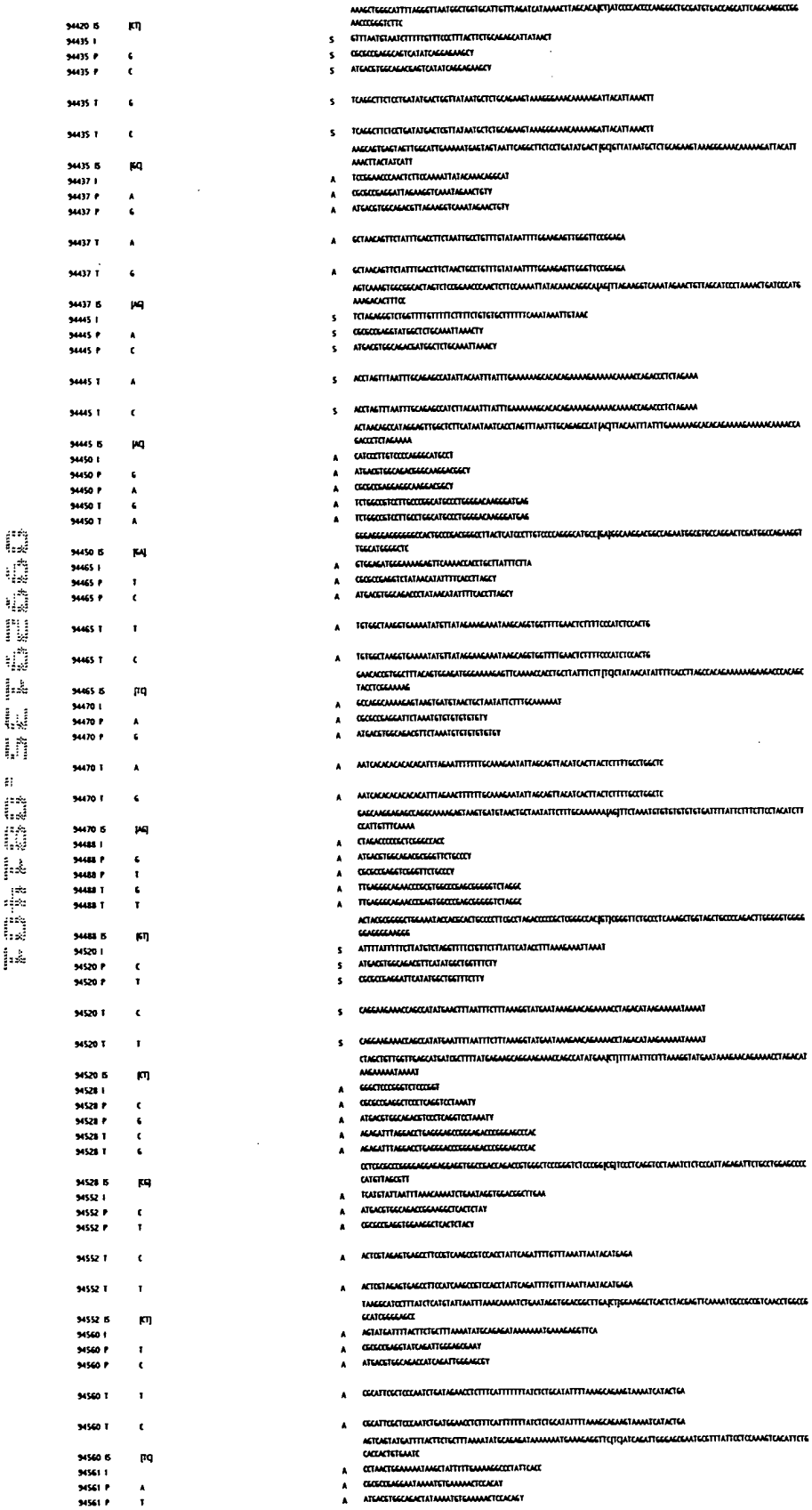


FIGURE 129C









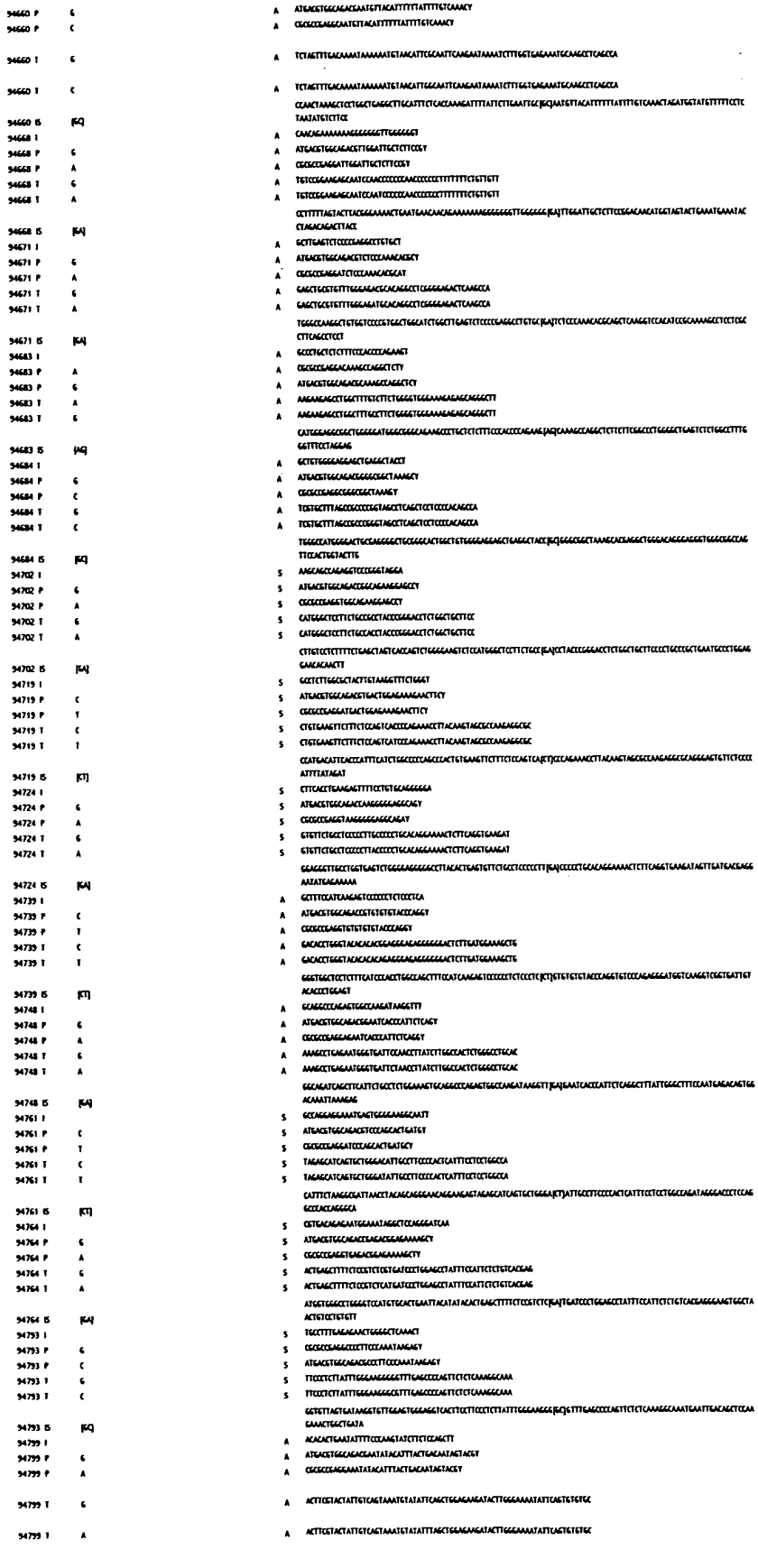


FIGURE 129C

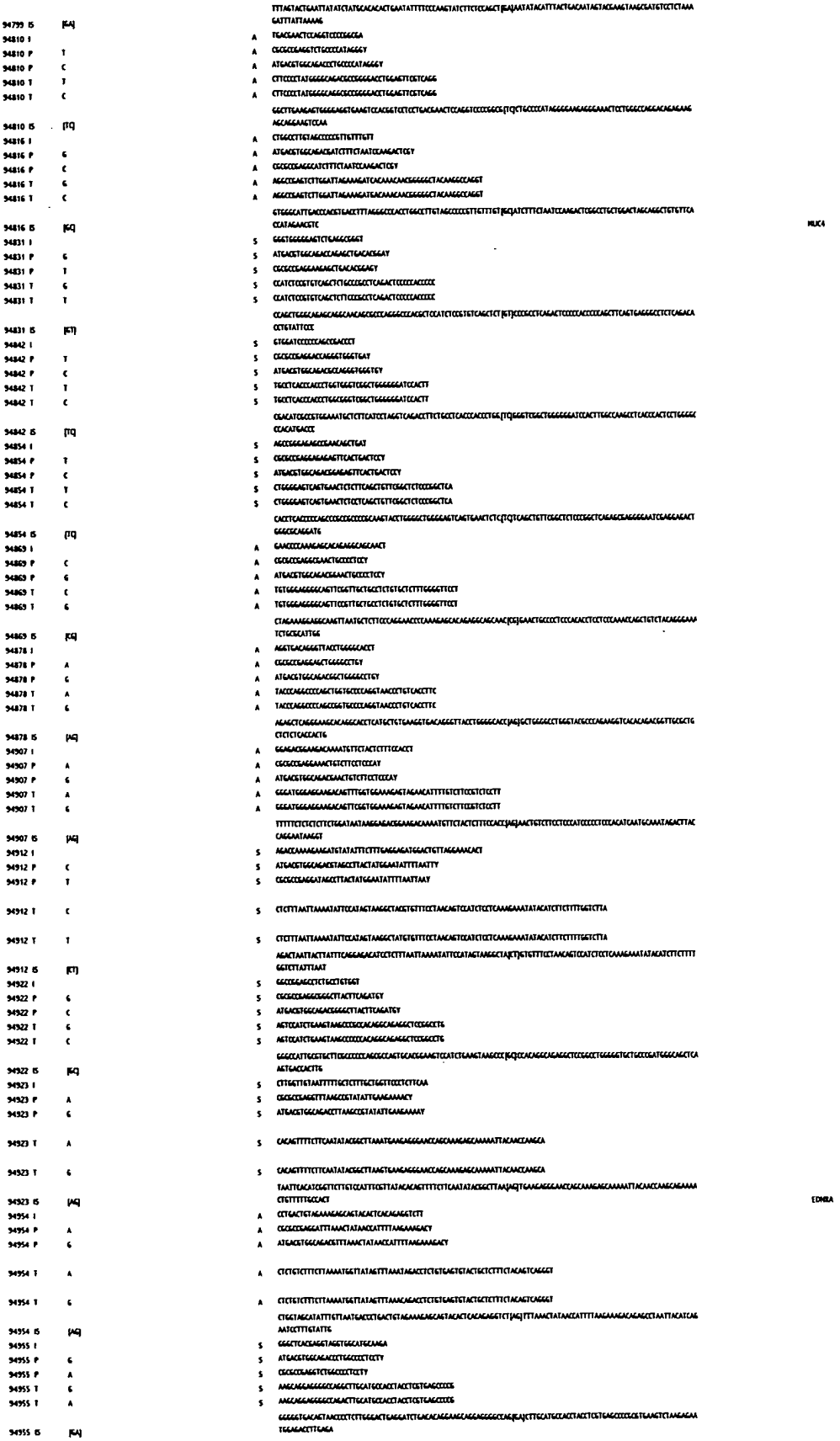
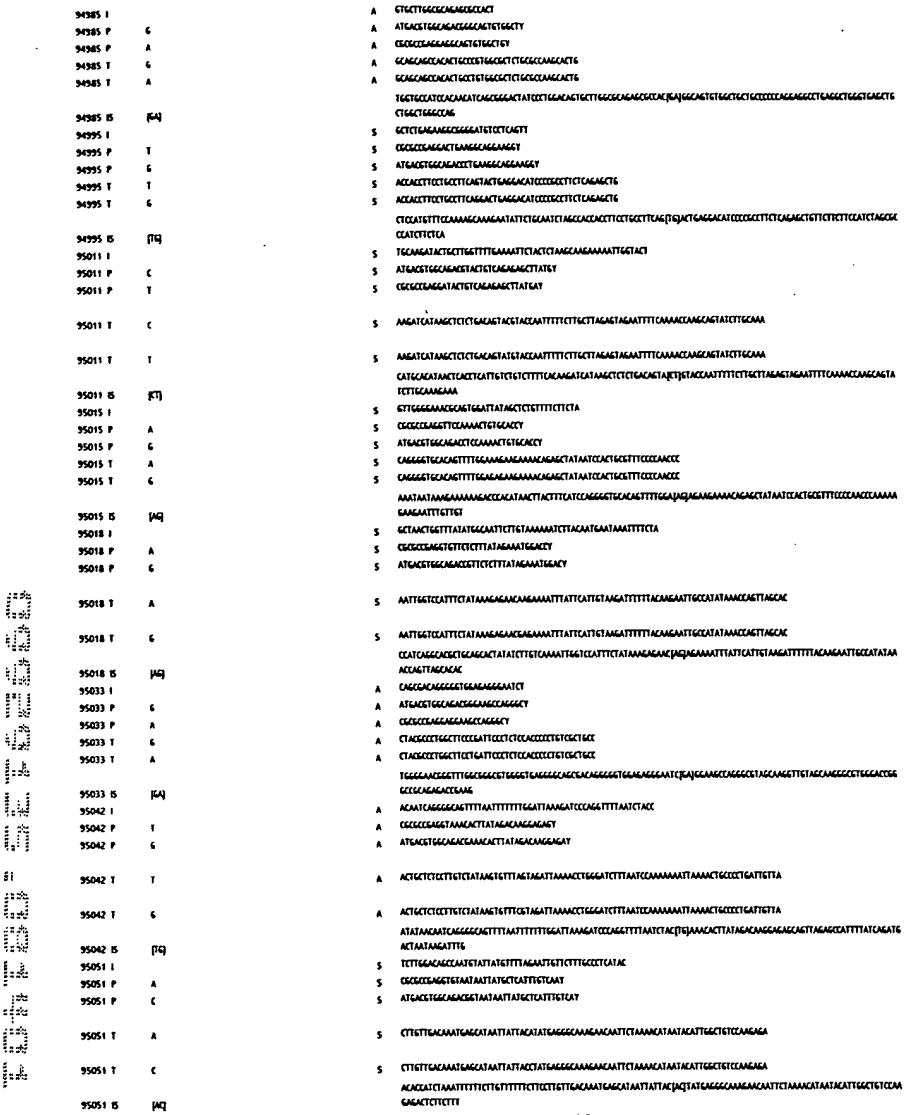


FIGURE 129C







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95081 P   G   S   ATGACGTGGCAGACCTATGAACATAAGTGTATTTTTCTCCY
95081 P   A   S   CGCGCCGAGCTTATGAACATAAGTGTATTTTTCTCCY
95081 T   G   S   CACTGGAGAAAAATACACTTATGTTCATAGGAACACCCACTTTGGTTCGTTGCAGGGTACTGA
95081 T   A   S   CACTGGAGAAAAATACACTTATGTTCATAAGAACACCCACTTTGGTTCGTTGCAGGGTACTGA

95081 IS  [GA]    AAAGCAGTGGCTCTGGGGTTTTATGTGTGTTCACTGGAGAAAAATACACTTATGTTCATAJGAJGAACACCCACTTTGGTTCGTTGCAGGGTACTGATAAGCAACCTGAG
                  AAATGTGGTGCAGG

95088 I           S   GCCGGGTCCGCCGAGGTTCCT
95088 P   C       S   ATGACGTGGCAGACGGTCCCAGCTTCCTGY
95088 P   G       S   CGCGCCGAGCGTCCCAGCTTCCTY
95088 T   C       S   CGCGCAGGAAGCTGGGACCGGAACCTCGGCGGACCCGCCC
95088 T   G       S   CGCGCAGGAAGCTGGGACCGGAACCTCGGCGGACCCGCCC

95088 IS  [CG]    CCCCAGCTCTCCCAGCAGCACCGGGTCGGAAGCCGCGACCCGAGCCGCGCAGGAAGCTGGGACJCGJGGAACCTCGGCGGACCCGGCCCACCCAACTCACCTGCGCAGGTAACC
                  CGGGCCCCCGCG

95094 I           A   GGTGAGCACAGGTTAGGAACTGTATCACAGTGTTTTCT
95094 P   G       A   ATGACGTGGCAGACGTGGGTCTGTGTATCTGTY
95094 P   A       A   CGCGCCGAGGATGGGTCTGTGTATCTGTATY
95094 T   G       A   ACATATACAGATACACAGACCACGAAAACACTGTGATACAGTCCCTAACCTGTGCTCACCCT
95094 T   A       A   ACATATACAGATACACAGACCATGAAAACACTGTGATACAGTCCCTAACCTGTGCTCACCCT

95094 IS  [GA]    CCTAAAGGATGGTCCTGAGATAGGGTGAGCACAGGTTAGGGACTGTATCACAGTGTTTTC[GA]TGGGTCTGTGTATCTGTATATGTTAGGACAGTGCAGGAAAGAGTG
                  CAGATTGGGCAGAGA

95130 I           S   GACACACAACTCAAATGCCACACAGGGCACT
95130 P   C       S   ATGACGTGGCAGACGAAAGAATGGCAGTTCTGTY
95130 P   T       S   CGCGCCGAGGAAAAGAATGGCAGTTCTGTY
95130 T   C       S   TAAAACAGAACTGCCATTCTTTCGTGCCCTGTGTGGCATTTGAGTTGTGTGTCCC
95130 T   T       S   TAAAACAGAACTGCCATTCTTTTGTGCCCTGTGTGGCATTTGAGTTGTGTGTCCC

95130 IS  [CT]    CTTTGTACAGTGGAGAAATATTTATAAACTTAATTTTGTAAAACAGAACTGCCATTCTTT[CT]GTGCCCTGTGTGGCATTTGAGTTGTGTGTCCCCTGGAGGGAATGCC
                  GACCCCCGAACA

95137 I           S   GGTGTCCCTGAACCCCAGCCCACT
95137 P   C       S   ATGACGTGGCAGACGCTCTCCCCAAACCY
95137 P   T       S   CGCGCCGAGGACTCTCCCCCAAACCY
95137 T   C       S   GTAGGGTTTGGGGGCAGACGCTGGGCTGGGGTTCAGGGACACCCT
95137 T   T       S   GTAGGGTTTGGGGGCAGAGTGTGGGCTGGGGTTCAGGGACACCCT

95137 IS  [CT]    CCGGTACCCTCGCAGCCCCGACGGCTACCTCCAGATCGGTGGGTAGGGTTTGGGGGAGAGJCT]GTGGGCTGGGTTCAGGGACACCCTCTCACCACTGCCCTCCCACAGGC
                  TCCTTCTACAAG

95151 I           A   GAATGACTTGTAAAATTATTCATGGTGCACAGAGGAAAGGTCAGTGA
95151 P   C       A   ATGACGTGGCAGACCTTTTTATGCCAATTTCCTCCY
95151 P   T       A   CGCGCCGAGGTTTTTTATGCCAATTTCCTCCY

95151 T   C       A   TAAAGCAGGAAATTGGCATAAAAAGCACTGACCTTTCCCTCTGTGCACCATGAATAATTTTACAAGTCATTCCC

95151 T   T       A   TAAAGCAGGAAATTGGCATAAAAACACTGACCTTTCCCTCTGTGCACCATGAATAATTTTACAAGTCATTCCC

95151 IS  [CT]    AAAATCATACAAAGGGAATGACTTGTAAAATTATTCATGGTGCACAGAGGAAAGGTCAGTG[CT]TTTTTATGCCAATTTCCTCCTTTATCCACAGATGTGAACTGGGGCT
                  CCTCCACACAGGCT

95203 I           A   CCACCTTTTTACAGAATAAATGCAGACTGAATTATAAATGCACCTCCAT
95203 P   G       A   ATGACGTGGCAGACGGTTGAAGTTGTTTTGAGTTGY
95203 P   C       A   CGCGCCGAGGCGTTGAAGTTGTTTTGAGTTY

95203 T   G       A   AAAGCAACTCAAAACAACTTCAACCTGGAGGTGCATTTATAATTCAGTCTGCATTTATTCTGTAAAAAGTGGCT

95203 T   C       A   AAAGCAACTCAAAACAACTTCAACGTGGAGGTGCATTTATAATTCAGTCTGCATTTATTCTGTAAAAAGTGGCT

95203 IS  [GC]    TTTATAAAACAGCCACCTTTTTACAGAATAAATGCAGACTGAATTATAAATGCACCTCCA[GC]GTTGAAGTTGTTTTGAGTTGCTTTTCATTTTCCAATAATAAATAAAT
                  AGAATTTGTTCT                                                                                                  PPP3CC

95215 I           S   GCCCTCGCCACACACCCCAATCGT
95215 P   T       S   CGCGCCGAGGACACTTCTCCTATTATATCCTY
95215 P   C       S   ATGACGTGGCAGACGCCACTTCTCCTATTATCCY
95215 T   T       S   ATCAAGGATAATAGGAGAAGTGGTCGATTGGGGTGTGTGGCCGAGGCCTA
95215 T   C       S   ATCAAGGATAATAGGAGAAGTGGCCGATTGGGGTGTGTGGCCGAGGCCTA

95215 IS  [TC]    TGAAAGATGTGACTGGCAGGGAAGAAGGCGTGGAGTGATCAAGGATAATAGGAGAAGTGG[TC]CGATTGGGGTGTGTGGCCAAGGCCAGGGGTTTGGCAAAGACAGC
                  TGCAGAGAATCTGGCG

95238 I           S   GGAGAAGGATCCCTGACTACTGTGACCATTGTCTACTCC
95238 P   A       S   CGCGCCGAGGTGGGGAAGATGGTAAGTTY
95238 P   C       S   ATGACGTGGCAGACGGGGGAAGATGGTAAGTY
95238 T   A       S   GGACAACTTACCATCTTCCCCAGAGTAGACAATGGTCACAGTACTCAGGGATCCTTCTCCTT
95238 T   C       S   GGACAACTTACCATCTTCCCCGAGTAGACAATGGTCACAGTACTCAGGGATCCTTCTCCTT

95238 IS  [AC]    ACAACTATGCATAGACTCTCAAAGAAAACCAGAGTTGAGGACAACTTACCATCTCCCC[AC]GAGTAGACAATGGTCACAGTACTCAGGGATCCTTCTCCTTCATTATT
                  ATACACACCCACT

95302 I           A   ACATGACAGTCCCATCAAAGTTATGGGGATTCTTCCTGTAACTCT
95302 P   G       A   ATGACGTGGCAGACGAGTCAATTTTTCAATGCCAY
95302 P   A       A   CGCGCCGAGGAAGTCAATTTTTCAATGCCACY

95302 T   G       A   ACAGGTGGCATTGAAAAATTGACTGAGTTACAGAAGAAATCCCCATAACTTTGATGGGACTGTCATGTTG

95302 T   A       A   ACAGGTGGCATTGAAAAATTGACTTGAGTTACAGAAGAAATCCCCATAACTTTGATGGGACTGTCATGTTG

95302 IS  [GA]    GACAAGGAAATTAACAACATGACAGTCCCATCAAAGTTATGGGGATTCTTCTGTAACTC[GA]AGTCAATTTTTCAATGCCACCTGTGATGAATACTTTGTTCACAATAA
                  CGTCACTTCAATC                                                                                                 SLC12A6

95304 I           S   TCTTTGAAATCCCGAATGGAGGCAAACATGACT
95304 P   C       S   ATGACGTGGCAGACGCAGACGCAGTCATAGY
95304 P   T       S   CGCGCCGAGGACAGACGCAGTCATAGY
95304 T   C       S   CAGTCCTATGACTGCGTCTGCGTCATGTTTGCCTCCATTCCGGATTTCAAAGAAT
95304 T   T       S   CAGTCCTATGACTGCGTCTGTGTCATGTTTGCCTCCATTCCGGATTTCAAAGAAT

95304 IS  [CT]    GATCAGCTCTTGCTTTTCTCCCAAGCAGGAGCTATACCACCAGTCCTATGACTGCGTCTG[CT]GTCATGTTTGCCTCCATTCCGGATTTCAAAGAATTTTATACAGAATCC
                  GACGTGAACAAG

95313 I           A   TGAGGGAAAGAAAGCAGTTACAGTATATTAAACTGCTCAGCTATTTCTAGTGATTAT
95313 P   C       A   CGCGCCGAGGCTCCTCATTTCTGGGGTY
95313 P   G       A   ATGACGTGGCAGACGTCCTCATTTCTGGGGTY

95313 T   C       A   CCTAACCCCAGAAATGAGGAGTAATCACTAGAAATAGCTGAGCAGTTTAATATACTGTAACTGCTTTCTTTCCTTCAAG

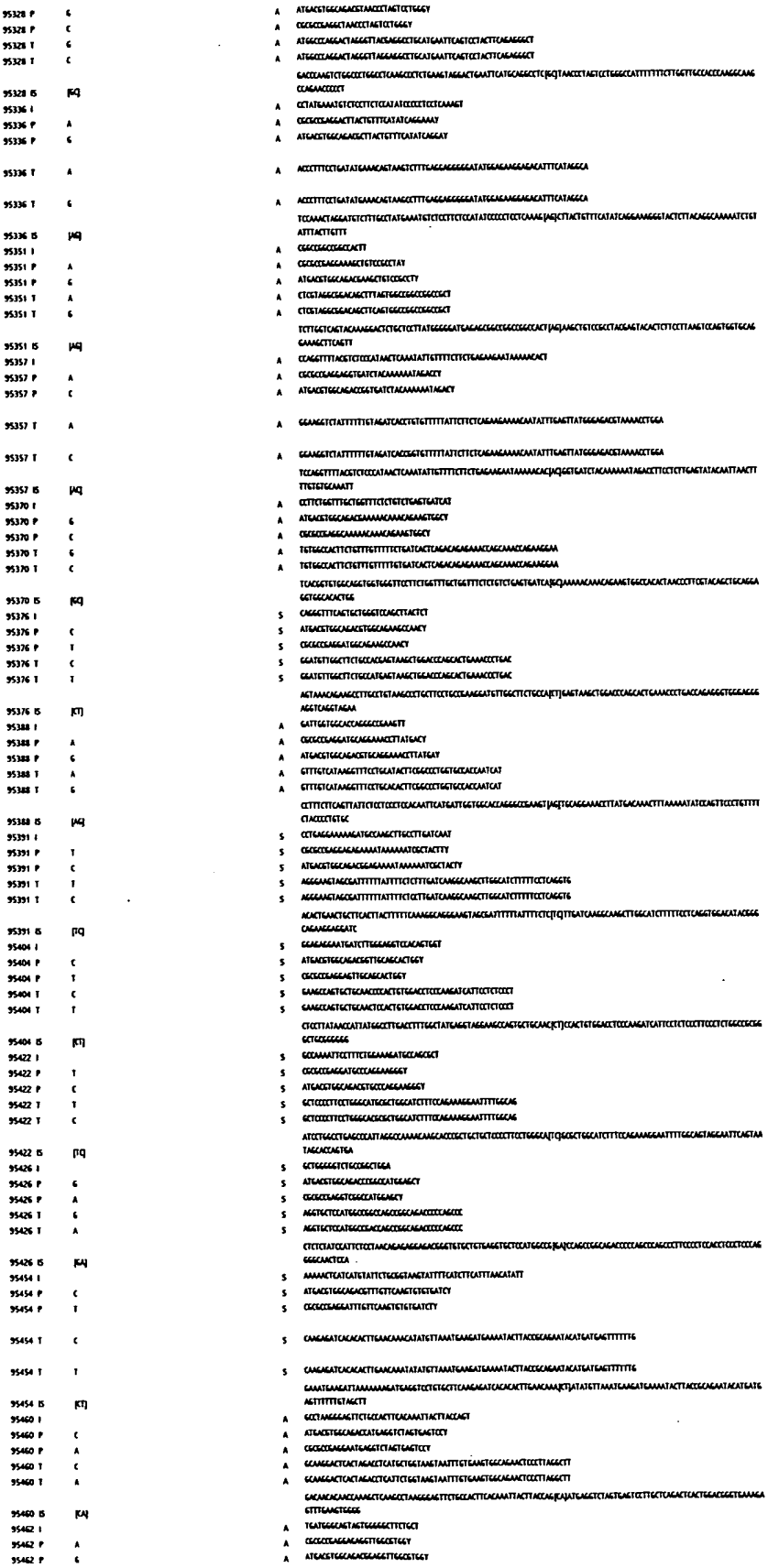
95313 T   G       A   CCTAACCCCAGAAATGAGGACTAATCACTAGAAATAGCTGAGCAGTTTAATATACTGTAACTGCTTTCTTTCCTTCAAG

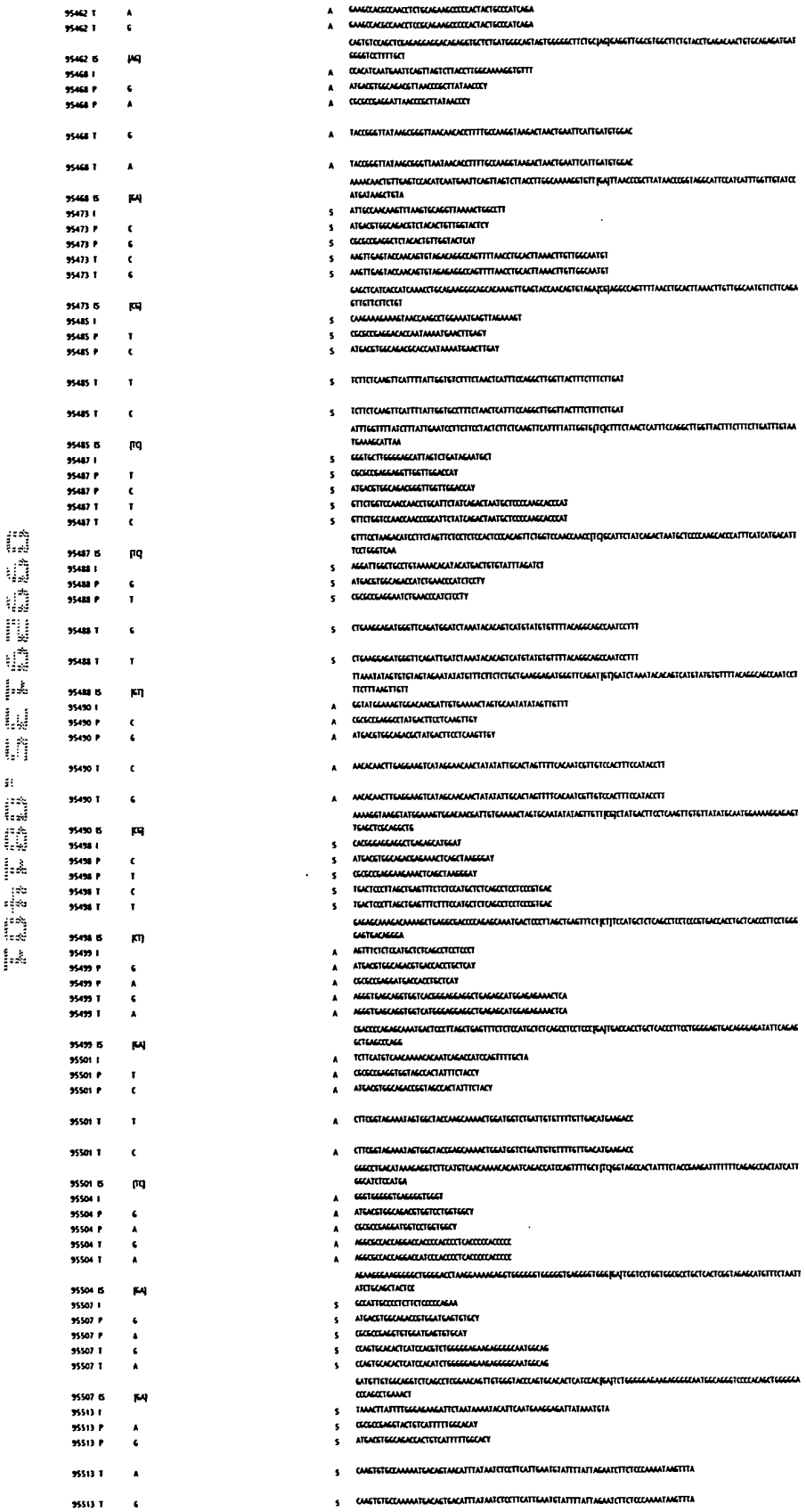
95313 IS  [CG]    ACCTTGAGGGAAAGAAAGCAGTTACAGTATATTAAACTGCTCAGCTATTTCTAGTGATTA[CG]TCCTCATTTCTGGGGTTAGGGCTGGGTCTTTACTAGATGTGTACCCG
                  CTAGTTAGTGACT

95326 I           S   GCTGTCCTGGAAGCCTGTGGCACAGT
95326 P   T       S   CGCGCCGAGGACAGCCCACCTGCY
95326 P   C       S   ATGACGTGGCAGACGCAGCCCACCTGCY
95326 T   T       S   GCAGGCAGGTGGGCTGTCTGTGCCACAGCCTCCAGGACAGCAG
95326 T   C       S   GCAGGCAGGTGGGCTGCCTGTGCCACAGCCTCCAGGACAGCAG

95326 IS  [TC]    CCGGAGCTGAAGTAGGATTAGCCTCCAATGTGACTTCCGAGTCTGCAGGCAGGTGGGCTG[TC]CTGTGCCACAGCCTCCAGGACAGCAGCCACCGTGTGGGGACTGGCTA
                  GACTGGGGGTCCC                                                                                                 FLJ11164

95328 I           A   CCCTCTGAAGTAGGACTGAATTCATGCAGGCCTCT
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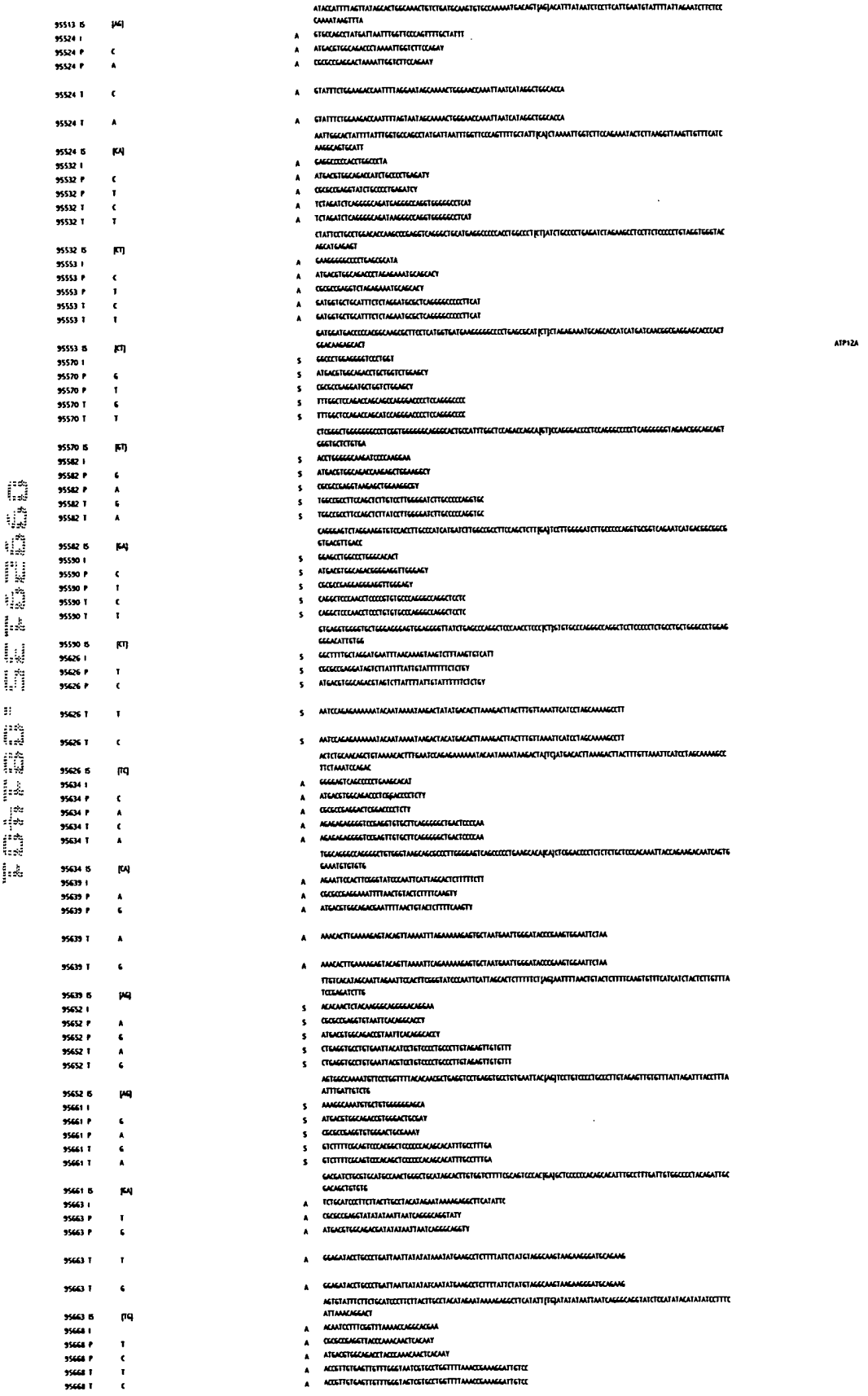

ATP12A

FIGURE 129C

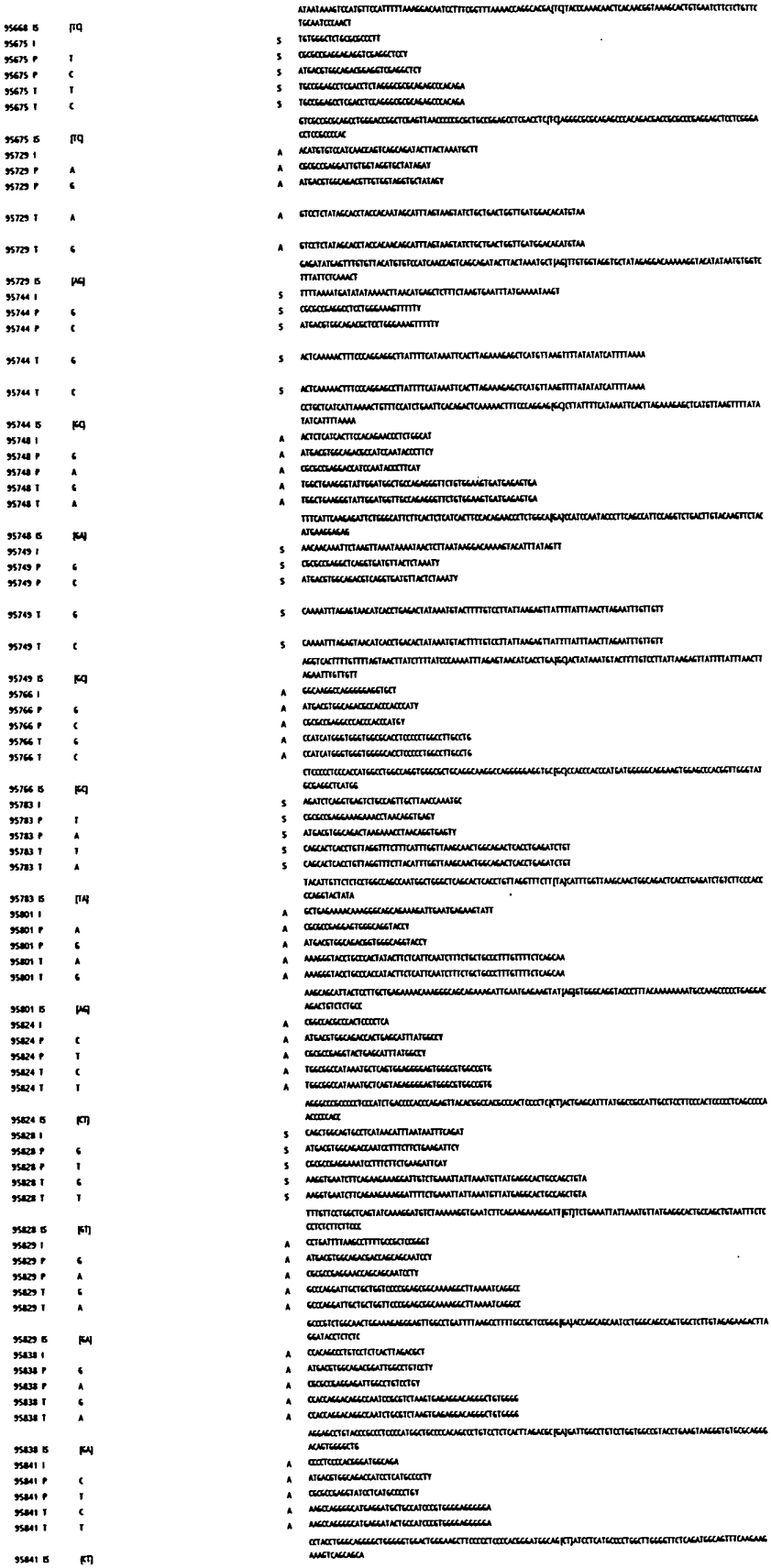
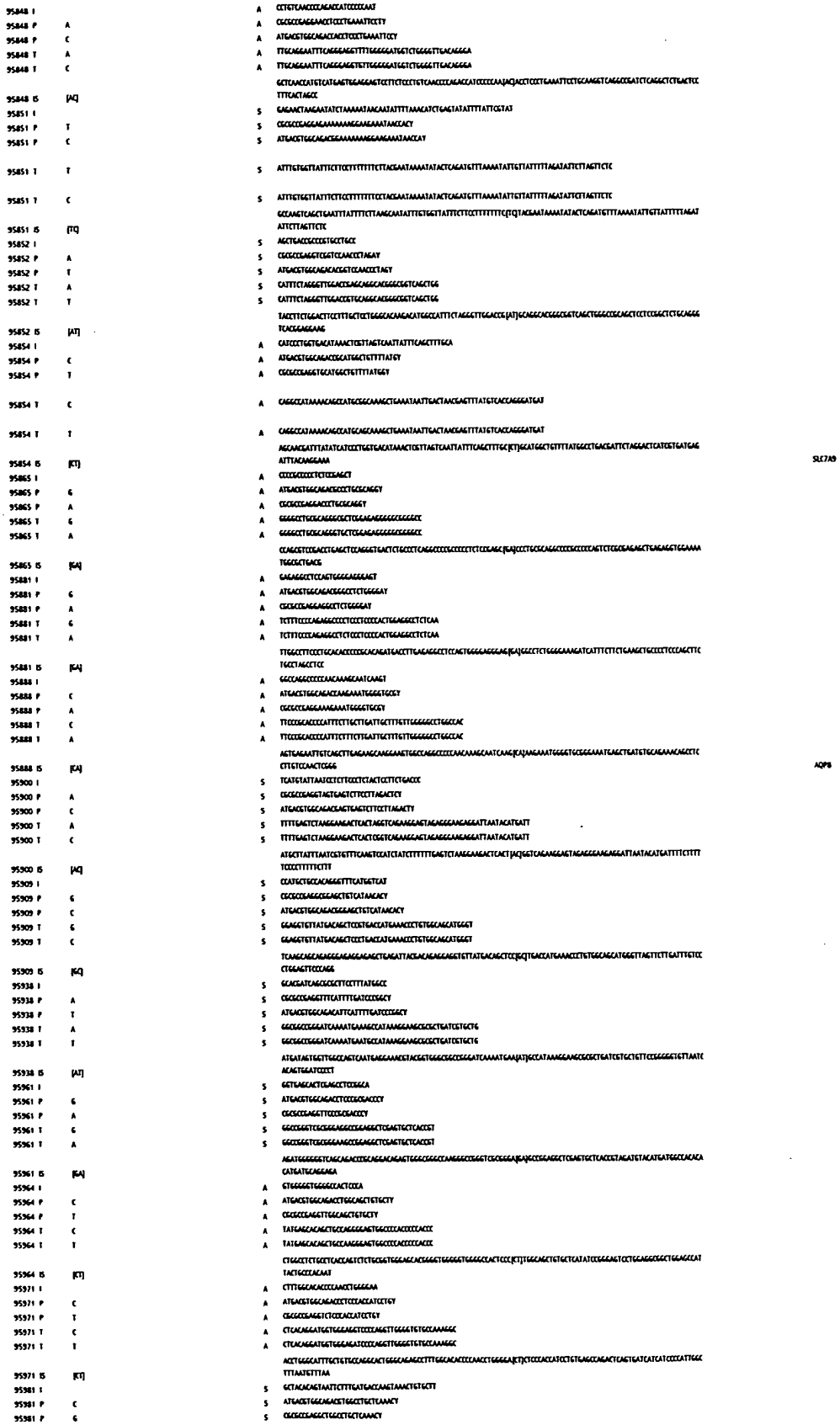
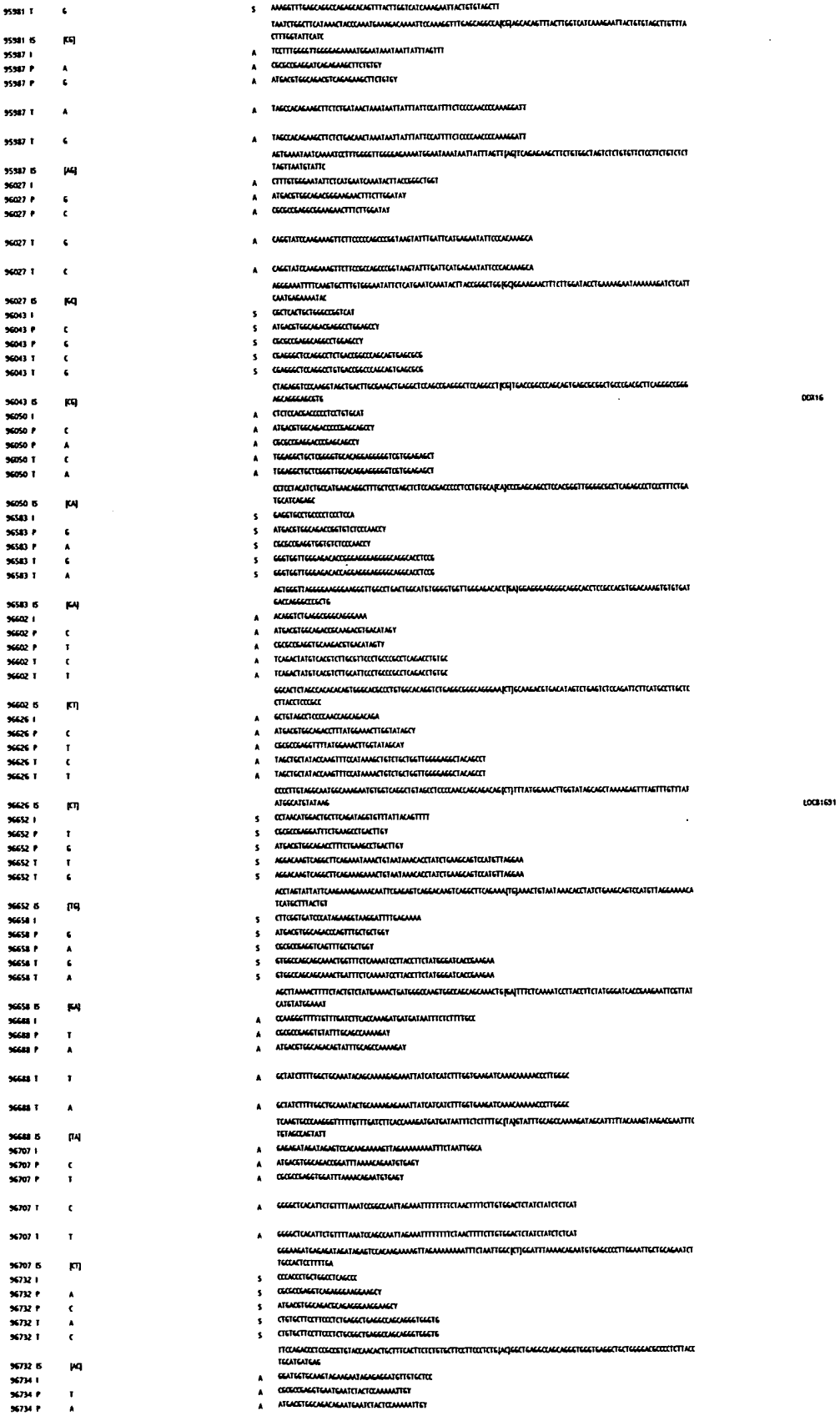


FIGURE 129C





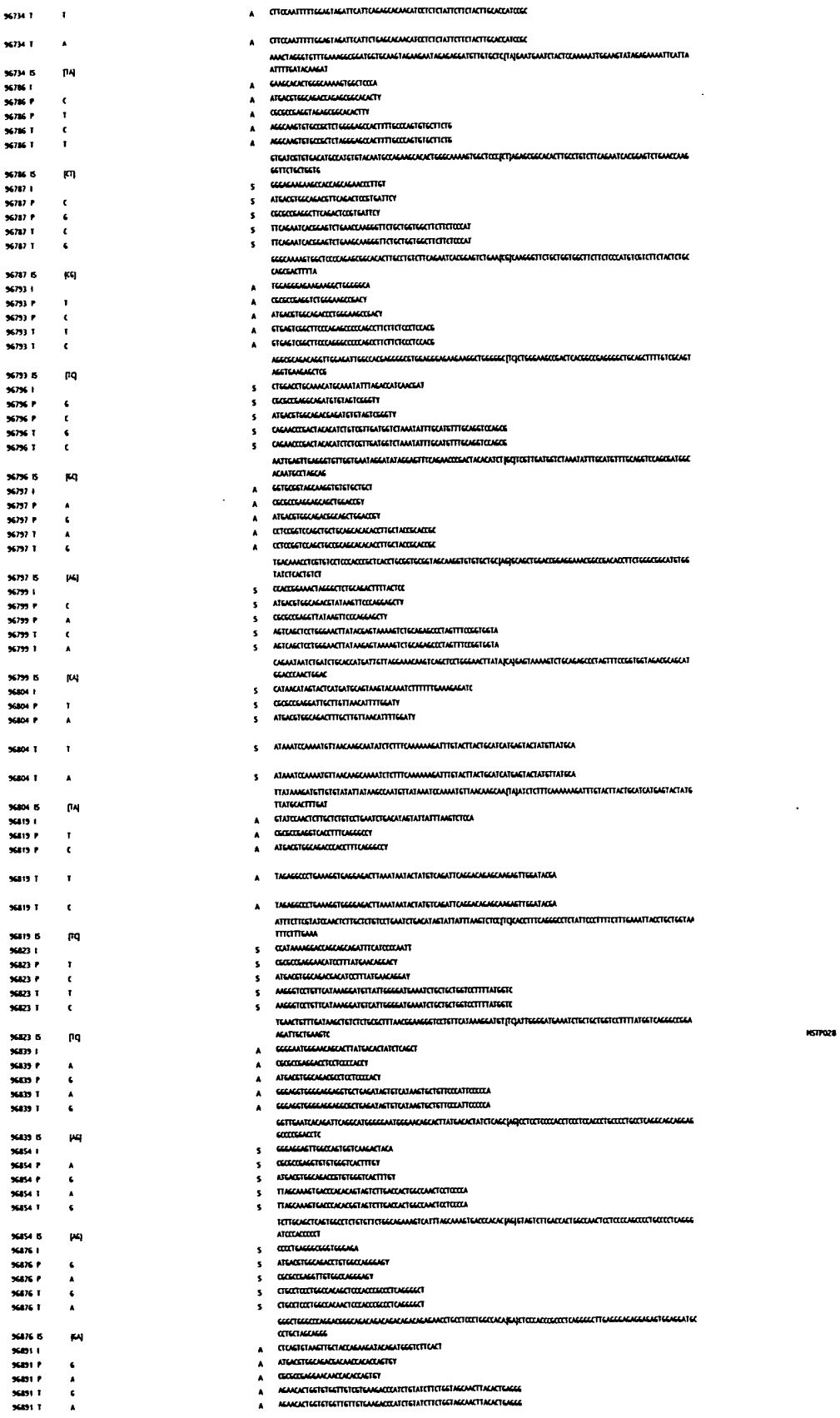


FIGURE 129C





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                                                                                GATGCTAGGATACATGCCCTCAGTGTAAGTTGCTACCAGAAGATACAGATGGGTCTTCACTGAAACAACCACACAGTGTCTCCTGTATAAAGAATATAAGAGAATATT
                                                                                CTGCTCTTGGTTCT
96891 IS        (CA)
96901 I
A                                                                               CACGGGTCAGGTGAGAAATTAAGAATCATATACCCGTGTTAGATT
96901 P         C
A                                                                               ATGACGTGGCAGACCTCCCTTTCCTAAATCTTGAGT
96901 P         A
A                                                                               CGCGCCGAGGATCCCTTTCCTAAATCTTGAGT

96901 T         C
A                                                                               AAGTCTCAAGATTTAGGAAAGGGAGATCTAACACGGGTATATGATTCTTAATTTCTCACCTGACCCGTGTG

96901 T         A
A                                                                               AAGTCTCAAGATTTAGGAAAGGGATATCTAACACGGGTATATGATTCTTAATTTCTCACCTGACCCGTGTG

                                                                                AAGATGAAACAGACACACACGGGTCAGGTGAGAAATTAAGAATCATATACCCGTGTTAGATTCATTCCCTTTCCTAAATCTTGAGACTTAGTAGGGCATAGGTTATCTGAA
                                                                                ATACATACATGCCC
96901 IS        (CA)
96941 I
A                                                                               GGTGGTACCAGTTTAAGAAGTGAGAACTTCTTCACTGACTGAT
A                                                                               CGCGCCGAGGAATTTGCATATCAATCCAAATCAY
96941 P         A
96941 P         G
A                                                                               ATGACGTGGCAGACGATTTGCATATCAATCCAAATCAY

96941 T         A
A                                                                               ACAATGATTTGGATTGATATGCAAATTTCAGTCAGTGAAGAAGTTCTCACTTCTTAAACTGGTACCACCTC

96941 T         G
A                                                                               ACAATGATTTGGATTGATATGCAAATCTCAGTCAGTGAAGAAGTTCTCACTTCTTAAACTGGTACCACCTC

                                                                                TTTCACAGTTATAGCTGAGGTGGTACCAGTTTAAGAAGTGAGAACTTCTTCACTGACTGAGACAATTTGCATATCAATCCAAATCATTGTGCTTATTTACTATTTTTGTAG
                                                                                ACGTCATTCTTCA
96941 IS        (AG)
96947 I
S                                                                               CTCAATCCTGGGCAAATAACAAATTGAAGCATTTGAAGAGATTAAACAGTGT
96947 P         G
S                                                                               ATGACGTGGCAGACAAAGAAGTTGCTTTAATCTTTY
96947 P         T
S                                                                               CGCGCCGAGGAAAAGGAGTTGCTTTAATCTTTCY

96947 T         G
S                                                                               AGTAGAAAGATTAAAGCAACTCCTTTGCACTGTTAATCTCTCAAATGCTTCAATTTGTTATTTGCCCAGGATTGAGGG

96947 T         T
S                                                                               AGTAGAAAGATTAAAGCAACTCCTTTTCACTGTTTAATCTCTCAAATGCTTCAATTTGTTATTTGCCCAGGATTGAGGG

                                                                                CAAGACAAACACAAATCCCATCAATGGAGATGGTGAGTAGAAAGATTAAAGCAACTCCTTTTGTCACTGTTTAATCTCTCAAATGCTTCAATTTGTTATTTGCCCAGGAT
                                                                                TGAGGGTATTACTT
96947 IS        (GT)
96956 I
A                                                                               GCCTCCTTTCACTGGCCAGCCAAGGT
96956 P         A
A                                                                               CGCGCCGAGGAAACATTTATTCCCAAGATTTAGY
96956 P         G
A                                                                               ATGACGTGGCAGACAACATTTATTCCCAAGATTTAGT
96956 T         A
A                                                                               AGCTCTAAATCTTGGGAATAAATGGTTCCTTGGCTGGCCAGTGAAAGAGGCAA
96956 T         G
A                                                                               AGCTCTAAATCTTGGGAATAAATGGTTCCCTTGGCTGGCCAGTGAAAGAGGCAA

                                                                                AAATAATTCTTGTTCAGGTCTCATGTCCTTAGCTTGCCTCCTTTCACTGGCCAGCCAAGGCAGCAATCATTTATTCCCAAGATTTAGAGCTTTGCCGCTGCCTGGTATCTTG
                                                                                CAGGGATGACTG
96956 IS        (AG)
96979 I
A                                                                               CAGAAGTAGGTCTCGAAGTTATAAAGGAAAGCTTAAAAAAAAAACAGATATGTGCAACT
96979 P         A
A                                                                               CGCGCCGAGGAACTAATTACAAAGAATCCATTGY
96979 P         G
A                                                                               ATGACGTGGCAGACGCCTATTTACAAAGAATCCATTGY

96979 T         A
A                                                                               TTCCCAATGGATTCTTTGTAAATAGGTGTTGCACATATCTGTTTTTTTTTTAAGCTTTCCTTTATAACTTCCAGACCTACTTCTGAT

96979 T         G
A                                                                               TTCCCAATGGATTCTTTGTAAATAGGCSTTGCACATATCTGTTTTTTTTTTAAGCTTTCCTTTATAACTTCCAGACCTACTTCTGAT

                                                                                ATCAGAAGTAGGTCTGGAAGTTATAAAGGAAAGCTTAAAAAAAAAACAGATATGTGCAACJAGCCTATTTACAAAGAATCCATTGGGAAACCCCCATTGAGCCCAGGTA
                                                                                GATGGCACATGTCC
96979 IS        (AG)
97005 I
S                                                                               CCACAATGTGCTGTCTAAAGTGACTTATTTGGGGACCCT
97005 P         T
S                                                                               CGCGCCGAGGAGTCCTGATGATGAACTGTY
97005 P         G
S                                                                               ATGACGTGGCAGACCGTCCTGATGATGAACTGT
97005 T         T
S                                                                               TCACACAGTTCATCATCAGGACTGGGTCCCCAAATAAGTCACTTTAGACAGCACATTGTGGAA
97005 T         G
S                                                                               TCACACAGTTCATCATCAGGACGGGGTCCCCAAATAAGTCACTTTAGACAGCACATTGTGGAA

                                                                                AGAAGGCATAATGTGTATTGCTTTCCAAGAACACCTGCTCACACAGTTCATCATCAGGACTGGGGTCCCCAAATAAGTCACTTTAGACAGCACATTGTGGAAAAAAAA
                                                                                ATGCAGGCATTACC
97005 IS        (TG)
97017 I
A                                                                               GAGAGACACGGTCAGGCCCCTGACCCT
97017 P         A
A                                                                               CGCGCCGAGGACAAGCCTGAGGCCY
97017 P         G
A                                                                               ATGACGTGGCAGACGCAAGGCTGAGGCY
97017 T         A
A                                                                               GTGTGGCCTCAGCCTTGTGGGTCAGGGCCTGACCGTGTCTCCTC
97017 T         G
A                                                                               GTGTGGCCTCAGCCTTGCCGGGTCAGGGCCTGACCGTGTCTCCTC

                                                                                CTGTCCTTCTGCATTTTCTGCCCTCTGGAAATAGAGAGAGACACGGTCAGGCCCTGACCCAGCAGGCCTGAGGCCACACACGTGAAGACGGCTGCTCCCATCCCACCCGC
                                                                                GGCGGGCACCAT
97017 IS        (AG)
97040 I
S                                                                               GGCAGTGTTTTTCCTGGAAGTGCTTTGAGAACCAT
97040 P         C
S                                                                               ATGACGTGGCAGACGTTTACGAAACAAAGAGTTGCY
97040 P         G
S                                                                               CGCGCCGAGGCTTTACGAAACAAAGAGTTGCY
97040 T         C
S                                                                               CCCTGCAACTCTTTGTTTCGTAAACTGGTTCTCAAAGCACTTCCAGCAAAAACACTGCCTC
97040 T         G
S                                                                               CCCTGCAACTCTTTGTTTCGTAAAGTGGTTCTCAAAGCACTTCCAGCAAAAACACTGCCTC

                                                                                TAATGGGTGCCCCGTGAAGTTAGCTCCCTTTCACTCCCCTGCAACTCTTTGTTTCGTAAAGCGTGTTCTCAAAGCACTTCCAGCAAAAACACTGCCTCACACAGACAGTT
                                                                                ACAGCATTGGTG
97040 IS        (CG)
97058 I
A                                                                               AGCAGCTTCAAGCCACCAATGTACAGGTATAAAGAAATA
97058 P         C
A                                                                               ATGACGTGGCAGACCAGTGAAAATAAGATGATTGGTTY
97058 P         T
A                                                                               CGCGCCGAGGTAGTGAAAATAAGATGATTGGTTCY

97058 T         C
A                                                                               ATATGAACCAATCATCTTATTTTCACTGATTTCTTTATACCTGTACATTGGTGGCCTTGAAGCTGCTGG

97058 T         T
A                                                                               ATATGAACCAATCATCTTATTTTCACTAATTTCTTTTATACCTGTACATTGGTGGCCTTGAAGCTGCTGG

                                                                                CCACTTCACCATGCAGTTCCCAGCAGCTTCAAGGCCACCAATGTACAGGTATAAAGAAATGCTAGTGAAAATAAGATGATTGGTTCATATGAGAAATAGTTCGATTAAT
                                                                                TTCTTTAGGCATTT
97058 IS        (CT)
97076 I
A                                                                               AGTGGCTGCTCTAAGGGTTTGCACATTGT
97076 P         G
A                                                                               ATGACGTGGCAGACGCTAATTCAAAAATCAATTGACCY
97076 P         C
A                                                                               CGCGCCGAGGCCTAATTCAAAAATCAATTGACCY
97076 T         G
A                                                                               TGGGGGTCAATTGATTTTTGAATTAGGCAATGTGCAAACCCTTAGAGCAGCCACTAT
97076 T         C
A                                                                               TGGGGGTCAATTGATTTTTGAATTAGGCAATGTGCAAACCCTTAGAGCAGCCACTAT

                                                                                AACACACATCTTTTCAGCACTTATTATGTGATAGTGGCTGCTCTAAGGGTTTGCACATTGTCCTAATTCAAAAATCAATTGACCCCCAAGGGTATCAGGTGACCCAGAA
                                                                                CACATATGGTGAA
97076 IS        (GC)
97104 I
S                                                                               CTGCACTCCTGAGAAACAAAAAGACATTTTCTCTGTTGTGGAAT
97104 P         C
S                                                                               ATGACGTGGCAGACGCCTCAACATGGCCY
97104 P         T
S                                                                               CGCGCCGAGGACCTCAACATGGCCTY
97104 T         C
S                                                                               GCAGAGGCCATGTTGAGGCTTCCACAACAGAGAAAAATGTCTTTTTGTTTCTCAGGAGTGCAGGC
97104 T         T
S                                                                               GCAGAGGCCATGTTGAGGTTTCCACAACAGAGAAAAATGTCTTTTTGTTTCTCAGGAGTGCAGGC

                                                                                CCATGAGGATAGTACAGCTTTTAAAAAACTGCTTGCCTTTGGGCAGAGCCATGTTGAGGACTTTTCCACAACAGAGAAAATGTCTTTTTGTTTCTCAGGAGTGCAGGCT
                                                                                GAAGCAGTATGTT
97104 IS        (CT)
97105 I
A                                                                               AGACAGGAGTCCCAGGGACATGACCTAGAGAAAT
97105 P         C
A                                                                               CGCGCCGAGGACATAAACAAATCGTTTCAAAGACY
97105 P         G
A                                                                               ATGACGTGGCAGACATAAACAAATCGTTTCAAAGACTY
97105 T         C
A                                                                               AGATAGTCTTTGAAACGATTTGTTTATGTTTCTCTAGGTCATGTCCCTGGGACTCCTGTCTAC
97105 T         G
A                                                                               AGATAGTCTTTGAAACGATTTGTTTATCTTTCTCTAGGTCATGTCCCTGGGACTCCTGTCTAC

                                                                                CGTCATACATATCTTCTTTTTCTCTGTAGACAGGAGTCCCAGGGACATGACCTAGAGAAAJCGJATAAACAAATCGTTTCAAAGACTATCTACAAAGTAGAAAGAATTCT
                                                                                TGGCTATACTTAA
97105 IS        (CG)
97128 I
S                                                                               GATTCAAAACAGCCAGAGACTCCAAAATCCTGGGAAAACT
97128 P         T
S                                                                               CGCGCCGAGGAATGTTGAGAGTCAAAAACACY
97128 P         C
S                                                                               ATGACGTGGCAGACGATGTTGAGAGTCAAAAACACY
```

FIGURE 129C



Confidential





Confidential Information Subject to Protective Order

97271 P	G	A	ATGACGTGGCAGACGCACAGCACAGACTCY
97271 T	A	A	CCTCTGAGTCTGTGCTGTGTCCTAAAGGCAGCAGTTGCAGCTTCTCCTCTATGTTTGCT
97271 T	G	A	CCTCTGAGTCTGTGCTGTGCCCTAAAGGCAGCAGTTGCAGCTTCTCCTCTATGTTTGCT
97271 IS	(AG)		CTTTCAAGGGGAGAACCCCATAGCAAACATAGAGGAGAAGCTGCAACTCCTCCCTTTAGG[AG]CACAGCACAGACTCAGAGGAAACAGTGGGCACCACATCTCTGACCACC ACAGACTTGGAGC
97273 I		A	CGGTTTTCAGAACCCCTGCTTTTGTGAGTGGTT
97273 P	A	A	CGCGCTGAGGACTGGTTTCATTACAGCTGY
97273 P	G	A	ATGACGTGGCAGACGCTGGTTTCATTACAGCTY
97273 T	A	A	GTACCAGCTGTAATGAAACCAGTACCACTCACAAAAGCAGGGGTTCTGAAAACGGGA
97273 T	G	A	GTACCAGCTGTAATGAAACCAGCACCACTCACAAAAGCAGGGGTTCTGAAAACGGGA
97273 IS	(AG)		ACCTTAACAGCGCTTGGCAGAAGTGCTCCCGTTTTCAGAACCCCTGCTTTGTGAGTGG[AG]CTGGTTTCATTACAGCTGGTACTCAAATTAACTAGATCAGAGCATCG TGATTAAATGATG
97286 I		A	GCCAGCCTGATGCACGTGCAGGGT
97286 P	C	A	ATGACGTGGCAGACCGCGTGGTGGTGAY
97286 P	A	A	CGCGCCGAGGAGCGTGGTGGTGAGY
97286 T	C	A	TGTTCTCACCACCACGCGCCTGCACGTGCATCAGGCTGGCCT
97286 T	A	A	TGTTCTCACCACCACGCTCCTGCACGTGCATCAGGCTGGCCT
97286 IS	(CA)		TGTGCCAATGGGCTCTGGGTGGTGGCTGTGACAACAGGCCAGCCTGATGCACGTGCAGGG[CA]GCGTGGTGGTGAGAACACTTACAGTTCACGGTGACCTTTACTCTCCC TACCACGGGCGC
97293 I		A	CCACTGTGGGCAGGGCCAGGGT
97293 P	G	A	ATGACGTGGCAGACGGTTCAGTGCTCTGGTY
97293 P	A	A	CGCGCCGAGGAGTTCAGTGCTCTGGTY
97293 T	G	A	CTGCACCACAGACACTGAACCCCCTGGCCCTGCCCACAGTGGGC
97293 T	A	A	CTGCACCACAGACACTGAACTCCCTGGCCCTGCCCACAGTGGGC
97293 IS	(GA)		AGCACAAGGCTTCTGCCTTACAAAGAGACTCTTCAGTGCCCACTGTGGGCAGGGCCAGGG[GA]GTTCAGTGCTCTGGTGCAGCTGAGATGAAAGGCAGATGTCTTGCTC TTAGCTGTGAGTTA
97295 I		A	GTGGGGGACACAGAGCCCAGCTCTT
97295 P	C	A	ATGACGTGGCAGACCTCCTGTCTCCTGGGY
97295 P	A	A	CGCGCCGAGGATCCTGTCTCCTGGGY
97295 T	C	A	TGGCCCCAGGAGACAGGAGAGAGCTGGCCTCTGTGTCCCCCACAC
97295 T	A	A	TGGCCCCAGGAGACAGGATAGAGCTGGCCTCTGTGTCCCCCACAC
97295 IS	(CA)		GGTTAGCCCCTCACGCAGGGCAAGCCTCCAGGTTGTGTGTGGGGGACACAGAGGCCAGCTCT[CA]TCCTGTCTCCTGGGGCCAGGTCTCCTCGGTGGAGGTGGACGCCGTGC ACAAGCACTACCT
97296 I		A	GCATCAGAGATCTGGACCTGGGCAGGGA
97296 P	T	A	CGCGCCGAGGTGGGACCTGGAGTAGGY
97296 P	C	A	ATGACGTGGCAGACCGGGACCTGGAGTAGY
97296 T	T	A	AGCCCCTACTCCAGCTCCCACCCTGCCCAGGTCCAGATCTCTGATGCCT
97296 T	C	A	AGCCCCTACTCCAGCTCCCGCCCTGCCCAGGTCCAGATCTCTGATGCCT
97296 IS	(TC)		TTGGCACCTGGGGCTGTGAGGGGAGGCAGGAAGGCATCAGAGATCTGGACCTGGGCAGGG[TC]GGGACCTGGAGTAGGGGCTACTGCGAGGCCTTCCCTGGGACTGGAA TGCTTCTTTGATTT
97298 I		A	GGACTTTGAACAGACAGCGATGGCAGGCTT
97298 P	A	A	CGCGCCGAGGATGAGTAGGCCGGGY
97298 P	G	A	ATGACGTGGCAGACGTGAGTAGGCCGGGY
97298 T	A	A	TCCACCCGGCCTACTCAJAGCCTGCCATCGCTCCTCTCTTCAAAGTCCTC
97298 T	G	A	TCCACCCGGCCTACTCACAGCCTGCCATCGCTCCTCTTCAAAGTCCTC
97298 IS	(AG)		GTTAATCACCGAGGGCTTCCTGGAGAAAAGGAGGACTTTGAAGAGAGAGCGATGGCAGGCTJAG]TGAGTAGCCCGGGTGGAAGAATGACACAGTCGTGCTTTTGGGGGT GGACACAGTGGGGTC
97312 I		A	CTTTCACTAAAATACTCCCTTCCTATGGGAACTCACCT
97312 P	G	A	ATGACGTGGCAGACGTATGATATTGAACTCGGTTATGY
97312 P	A	A	CGCGCCGAGGATATGATATTGAACTCGGTTATGTY
97312 T	G	A	GCTCACATAACCGAGTTCAATATCATACGGTGAGTTCCCATAGGAAGGGAGTATTTTAGTGAAAGTT
97312 T	A	A	GCTCACATAACCGAGTTCAATATCATATGGTGAGTTCCCATAGGAAGGGAGTATTTTAGTGAAAGTT
97312 IS	(GA)		AAATATGTACAAATTACTATGAACTTTCACTAAAATACTCCCTTCCTATGGGAACTCACC[GA]TATGATATTGAACTCGGTTATGTCAGCCACCTGCTCCTGGAGAACCA TTGTTAGAGCCTC
97363 I		S	ACTTGTGTCCAACCGCACTGCTCCCAT
97363 P	C	S	ATGACGTGGCAGACGCGACTCCTTCCACAY
97363 P	T	S	CGCGCCGAGGACGACTCCTTCCACAAY
97363 T	C	S	TTCTCTTCTGGAAAGGAGTCGCTGGGAGCAGTGCGGTTGGACACAAGTTT
97363 T	T	S	TTCTCTTCTGGAAAGGAGTCGTTGGGAGCAGTGCGGTTGGACACAAGTTT
97363 IS	(CT)		ACCATAGAGCAAGGGGGGGGAGGGGAAGTGTTGCAGCAAGGCATTCTCTTCTGGAAGGAGTCG[CT]TGGGAGCAGTGCGGTTGGACACAAGTTTGCGTAGGAGTGTTTTCCT TTTGTCAATAATTA
97376 I		S	TCAGGAGCCACTGCAGCTCTGGGACT
97376 P	C	S	ATGACGTGGCAGACGCCAGTCTGTGTCCY
97376 P	T	S	CGCGCCGAGGACCAAGTCTGTGTCCCY
97376 T	C	S	CGTGGGGACACAGACTTGGCGTCCCAGAGCTGCAGTGGCTCCTGAGC
97376 T	T	S	CGTGGGGACACAGACTTGGTGTCCCAGAGCTGCAGTGGCTCCTGAGC
97376 IS	(CT)		TATGACTGCAGCGGCCTCACTCACCGGTGTGCCTGGGGTACGTGGGGACACAGACTTG[CT]GTCCAGAGCTGCAGTGGCTCCTGAGCATCAGCAGCACCCCCGAAGG GTCCTCCTCCCAC
97389 I		S	GTGGCCTGCTTACCCCAGGTCTAGGAAC
97389 P	A	S	CGCGCCGAGGTGAACTTCTTTGGAACTTGCY
97389 P	T	S	ATGACGTGGCAGACAGAACTTCTTTGGAACTTGCY
97389 T	A	S	CTATGCAAGTTCCAAAGAAGTTCATTCCTAGACCTGGGGTAAGCAGGCCACCT
97389 T	T	S	CTATGCAAGTTCCAAAGAAGTTCTTTCCTAGACCTGGGGTAAGCAGGCCACCT
97389 IS	(AT)		ATGGTCACGATGTCTCATCAGCCCATTCTAGGCGCCTATGCAAGTTCCAAAGAAGTTC[AT]TTCCTAGACCTGGGGTAAGCAGGCCACCTCAGGAAGCTGCAATCACATC ACGCCCCCAAA
97391 I		A	GGGCAGAGGCCGGGGCCTC
97391 P	G	A	ATGACGTGGCAGACGACCTGGCCTGGGY
97391 P	T	A	CGCGCCGAGGTACCTGGCCTGGGGY
97391 T	G	A	CCCGCCCCAGGCCAGGTCAGGCCCGCCCTCTGCCCGC
97391 T	T	A	CCCGCCCCAGGCCAGGTAAGCCCCGCCCTCTGCCCGC
97391 IS	(GT)		CTCGCTTCCGCGCCCTGCGACGTCGCCGCAGACAGTCGTGAGCGGGCAGAGGCGGGGCCT[GT]ACCTGGCCTGGGGCGGGCCTCCATAGTGGGCGGGGCTTCCTCCAGTTC CGCAGTCCAGTG
97395 I		S	GAGTTCCATGGAGTTTAAATAACCCATGCCCGAAGAGACTAATAA
97395 P	G	S	ATGACGTGGCAGACCAGTCCCGTGGCTTY
97395 P	A	S	CGCGCCGAGGTAGTCCCGTGGCTTTTY
97395 T	G	S	TCAAAAAAGCCACCGGGACTGTATTAGTCTCTTCCGGCATGGGTTATTTAAACTCCATGGAACTCCT
97395 T	A	S	TCAAAAAAGCCACCGGGACTATATTAGTCTCTTCCGGCATGGGTTATTTAAACTCCATGGAACTCCT
97395 IS	(GA)		TATGACACTGTCTTTCAGAATGACAATAGGTGGAACTAAGTTCAAAAAAGCCACCGGGACT[GA]TATTAGTCTCTTCCGGCATGGGTTATTTAAACTCCATGGAACTCCTT TGAAGCCAACCCC
97400 I		S	TTCCAATTAAATATTTTGTTCAAGAGGTCTTGAAAACAAGCCAA
97400 P	G	S	ATGACGTGGCAGACCTAAGTCATCAAGTGAGTCY
97400 P	A	S	CGCGCCGAAGTGTAAGTCATCAAGTGAGTCY
97400 T	G	S	GTTAGACTCACTTGATGACTTACGTGGCTTGTTTTCAAGACCTCTTGAACAAAATATTTAATTGGAACA
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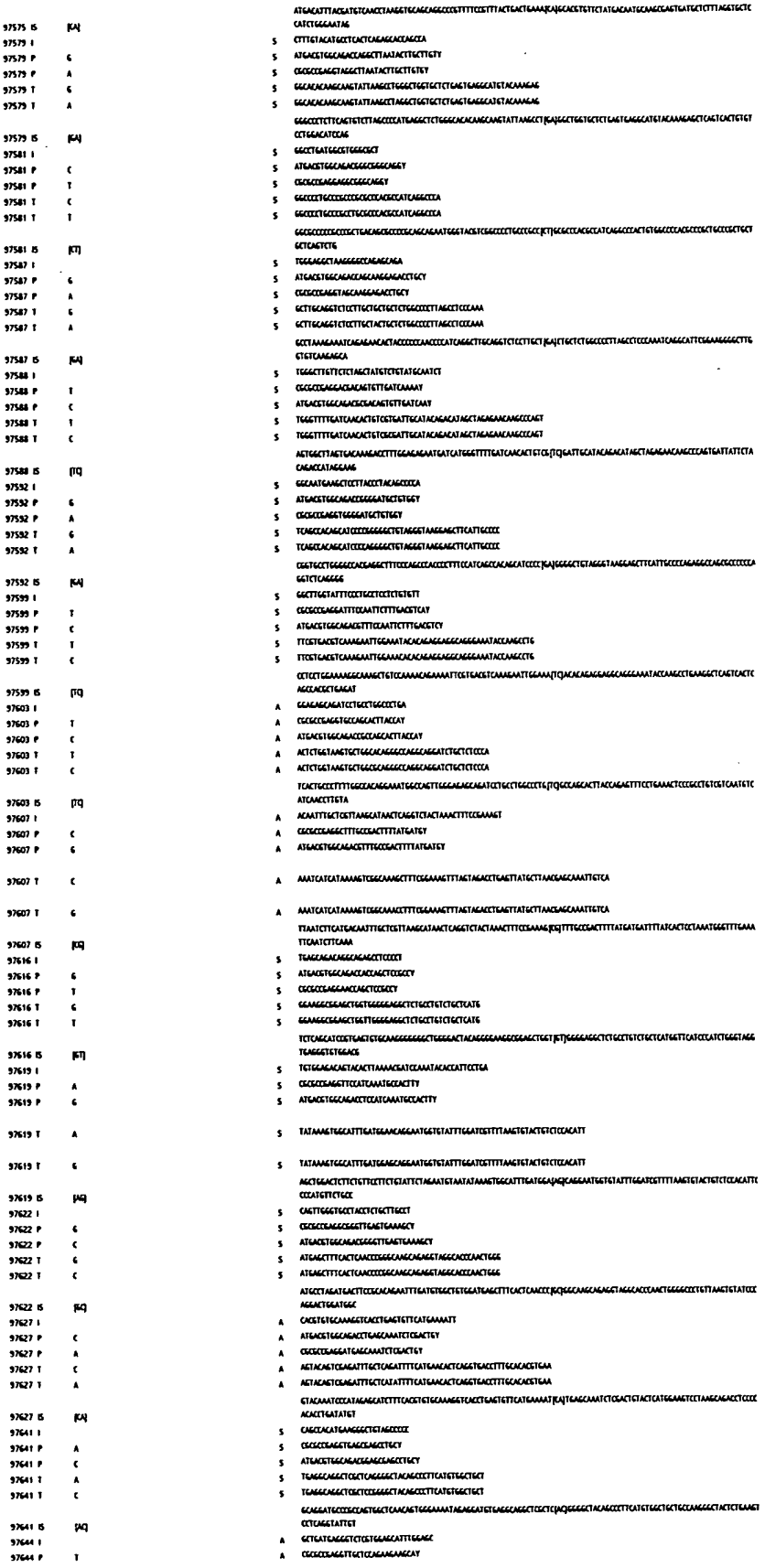


FIGURE 129C

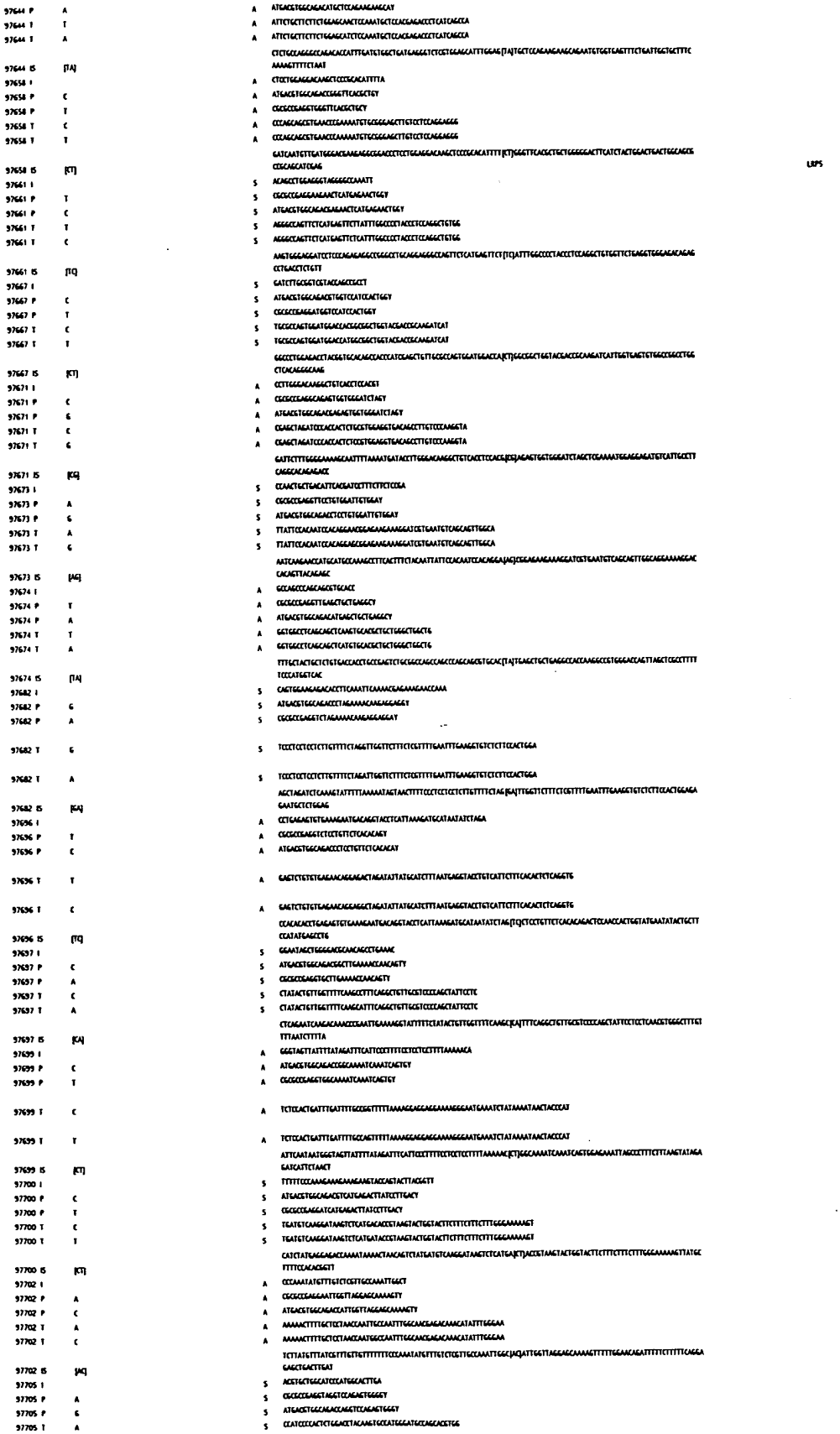
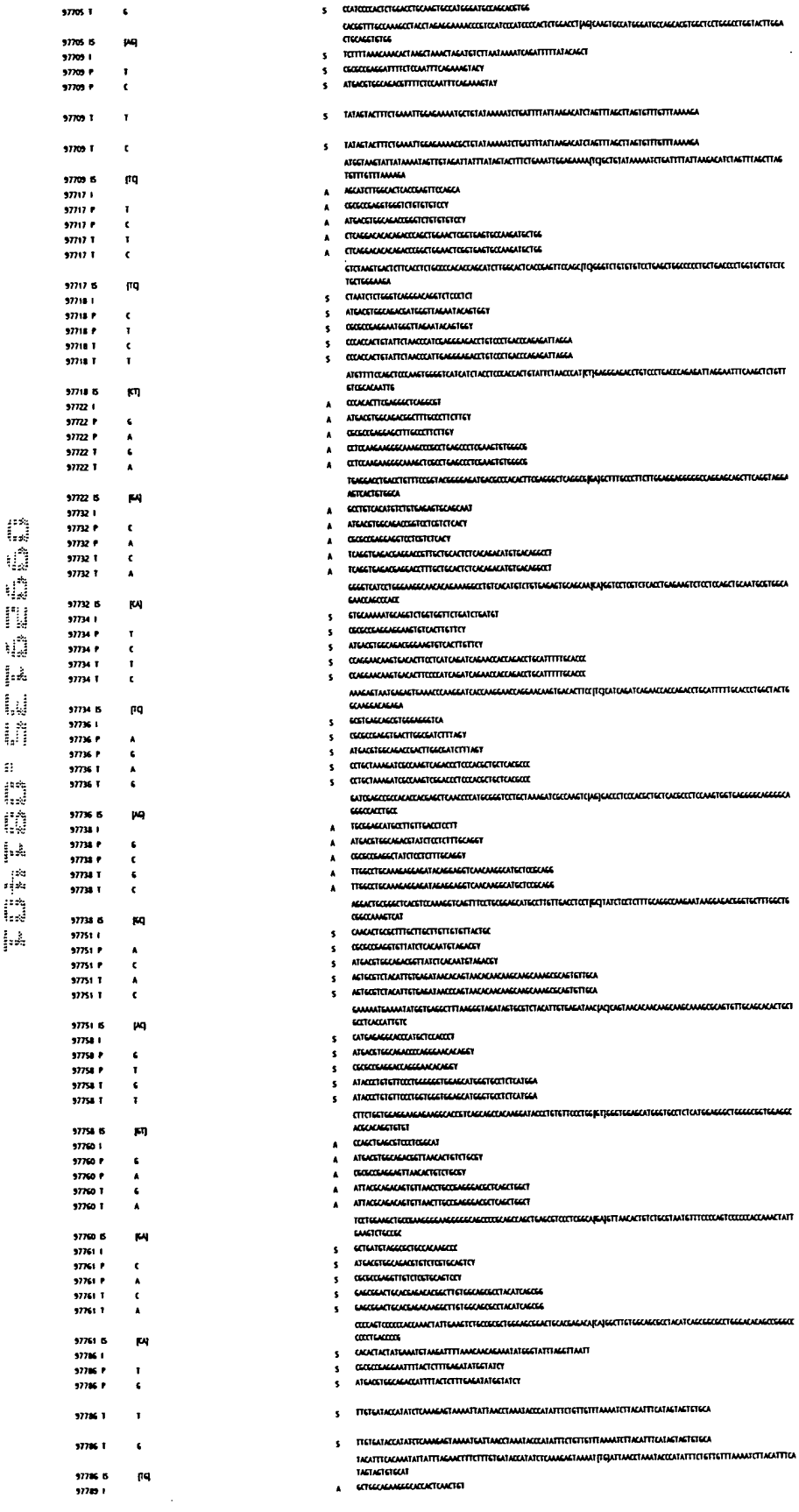


FIGURE 129C



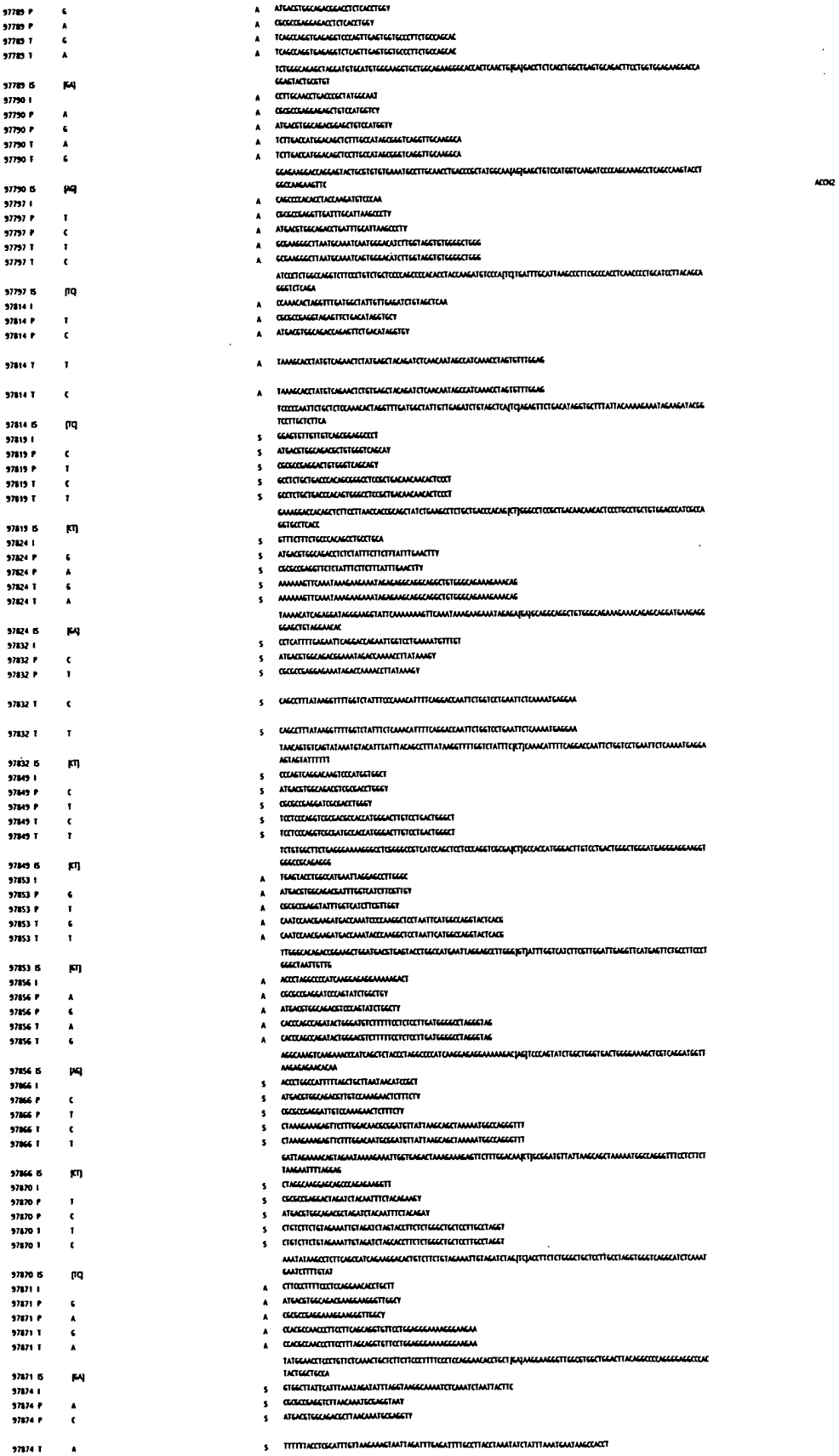
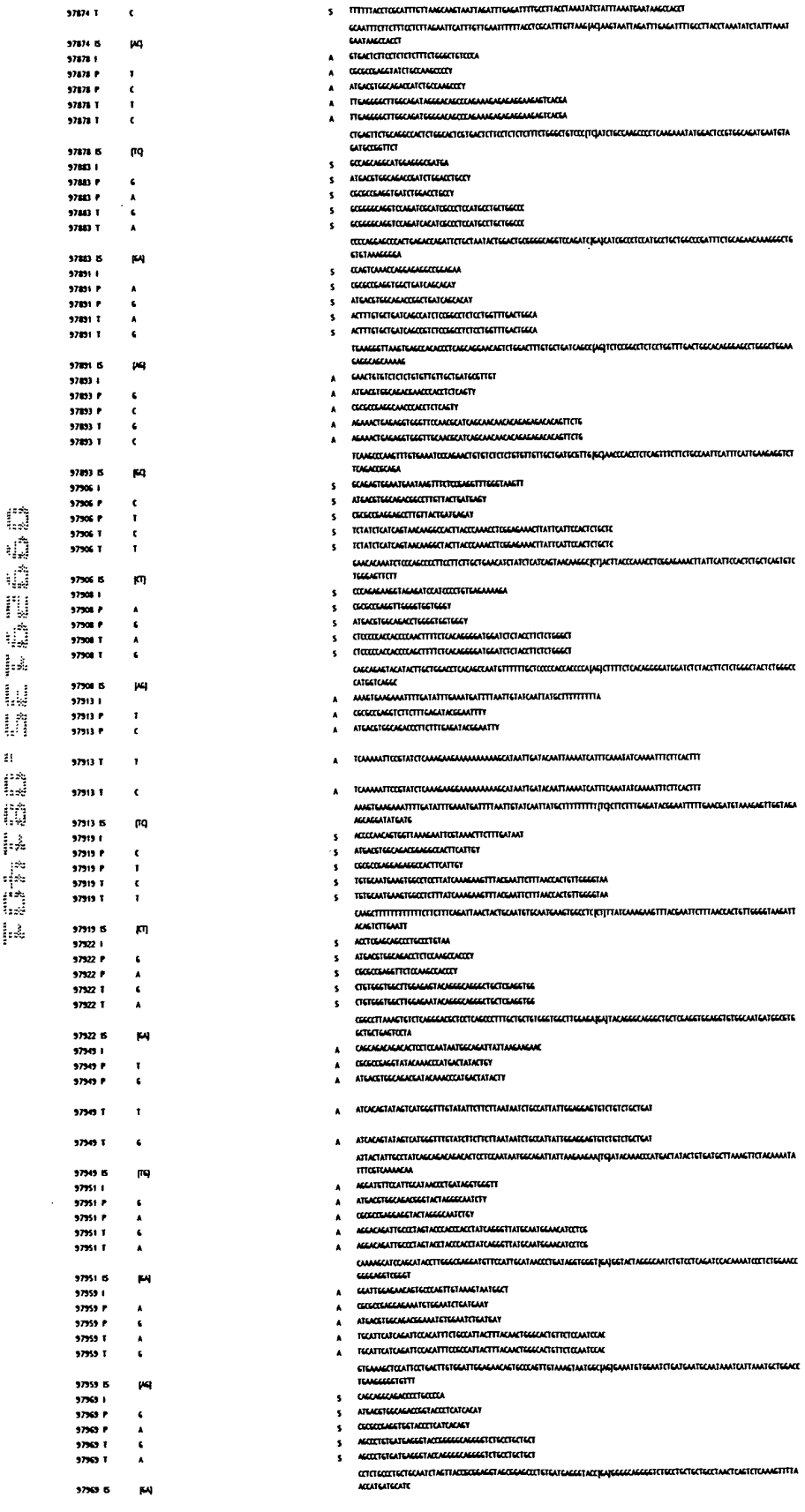
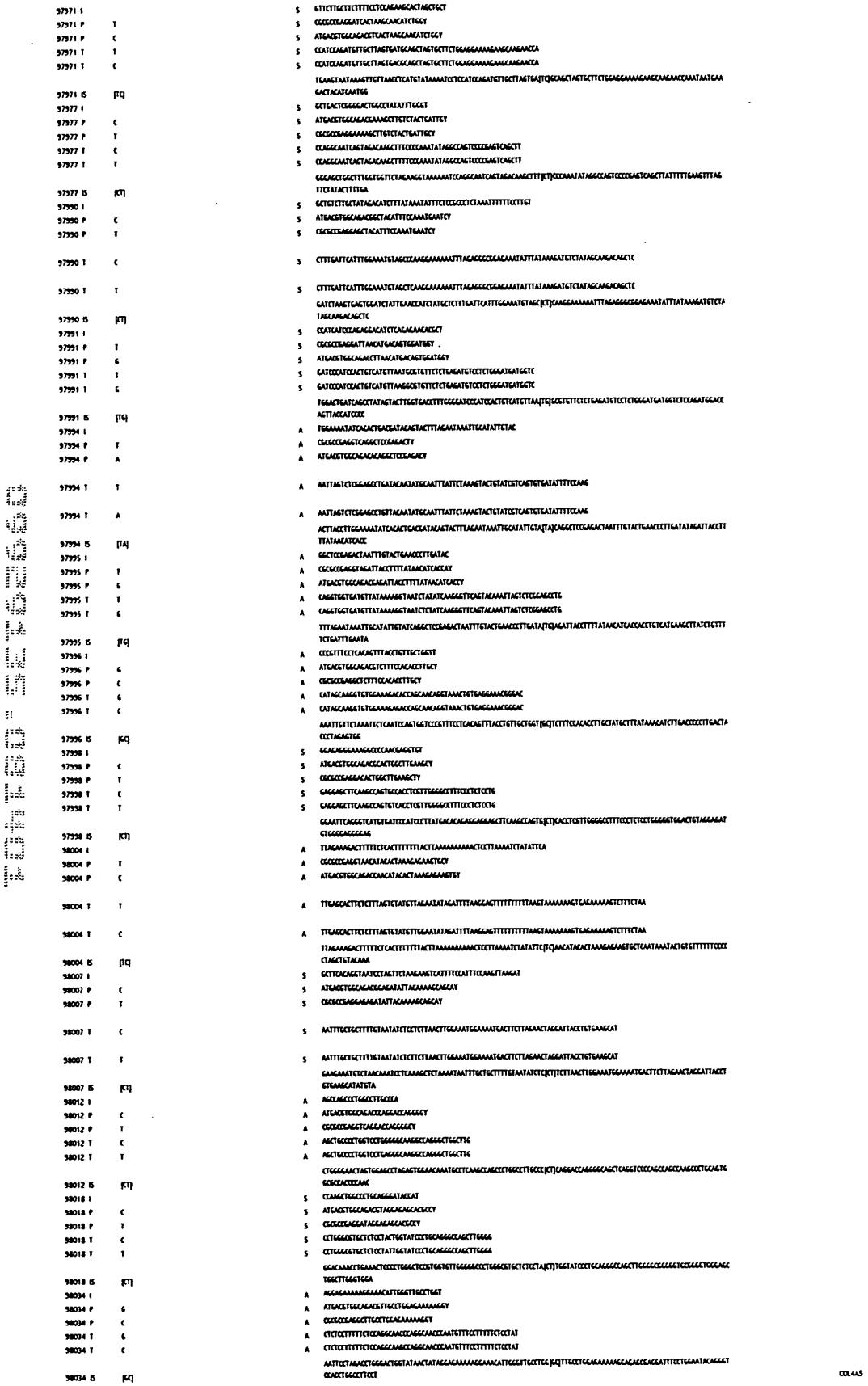
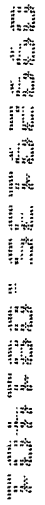


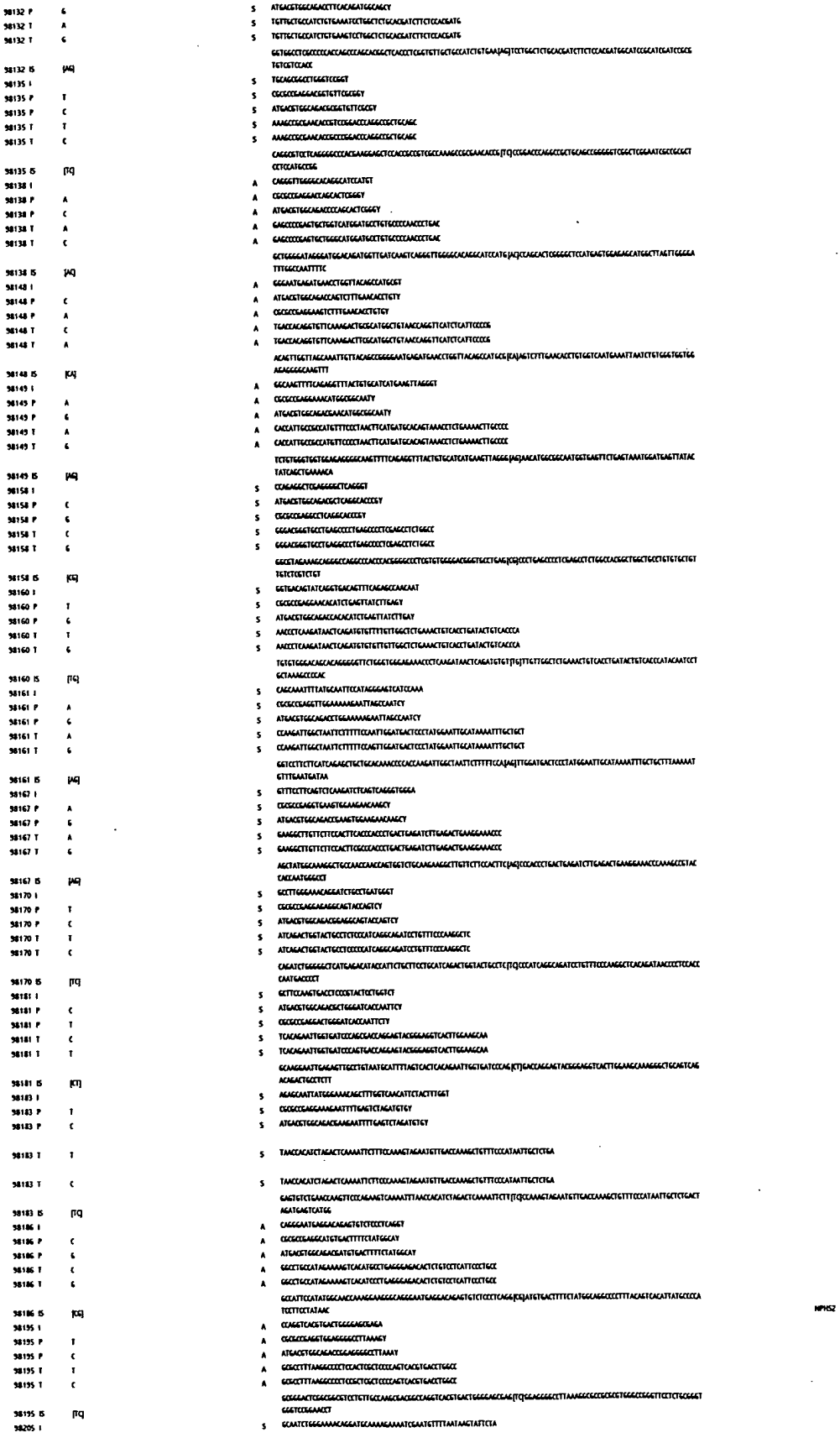
FIGURE 129C





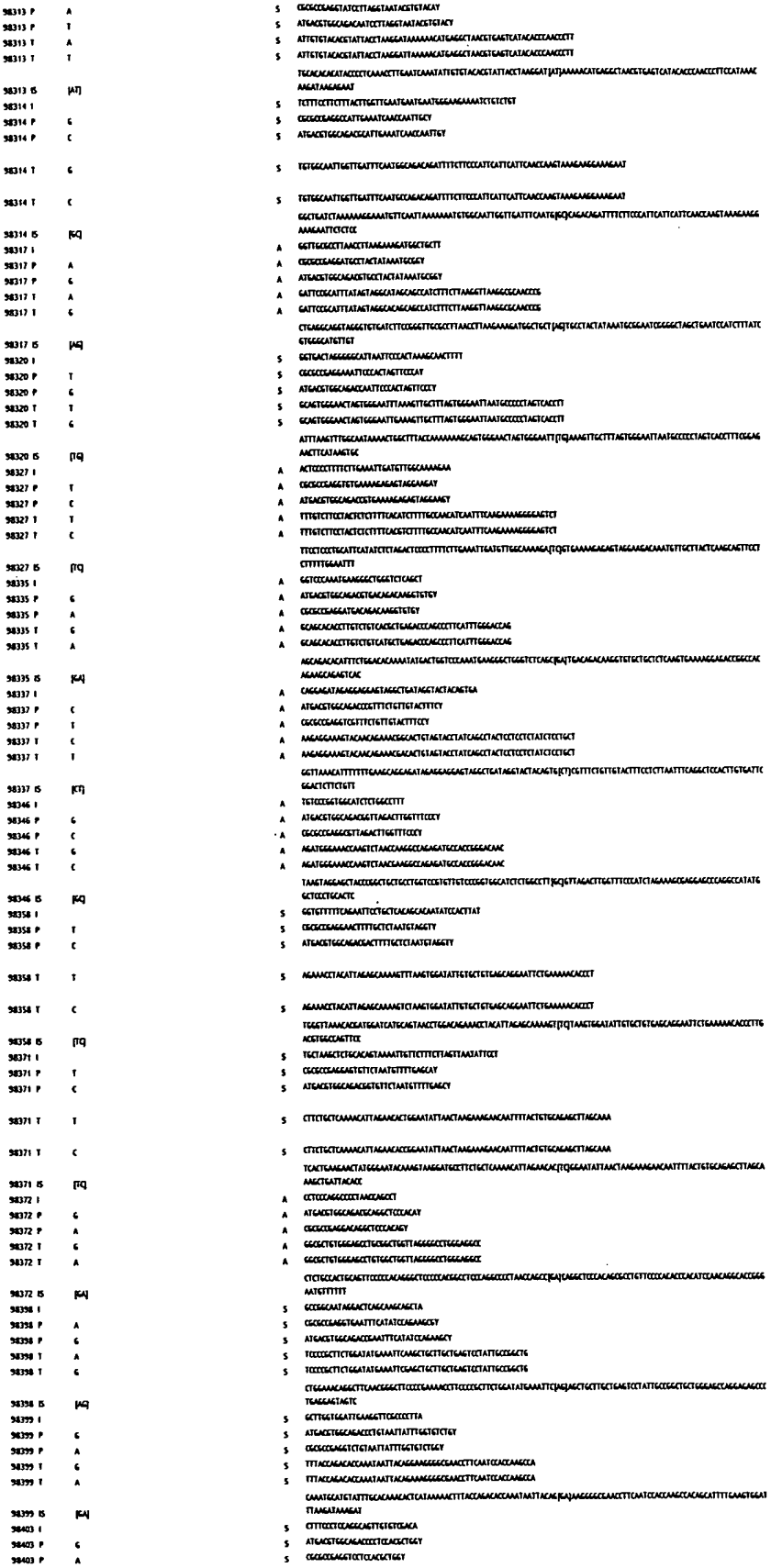


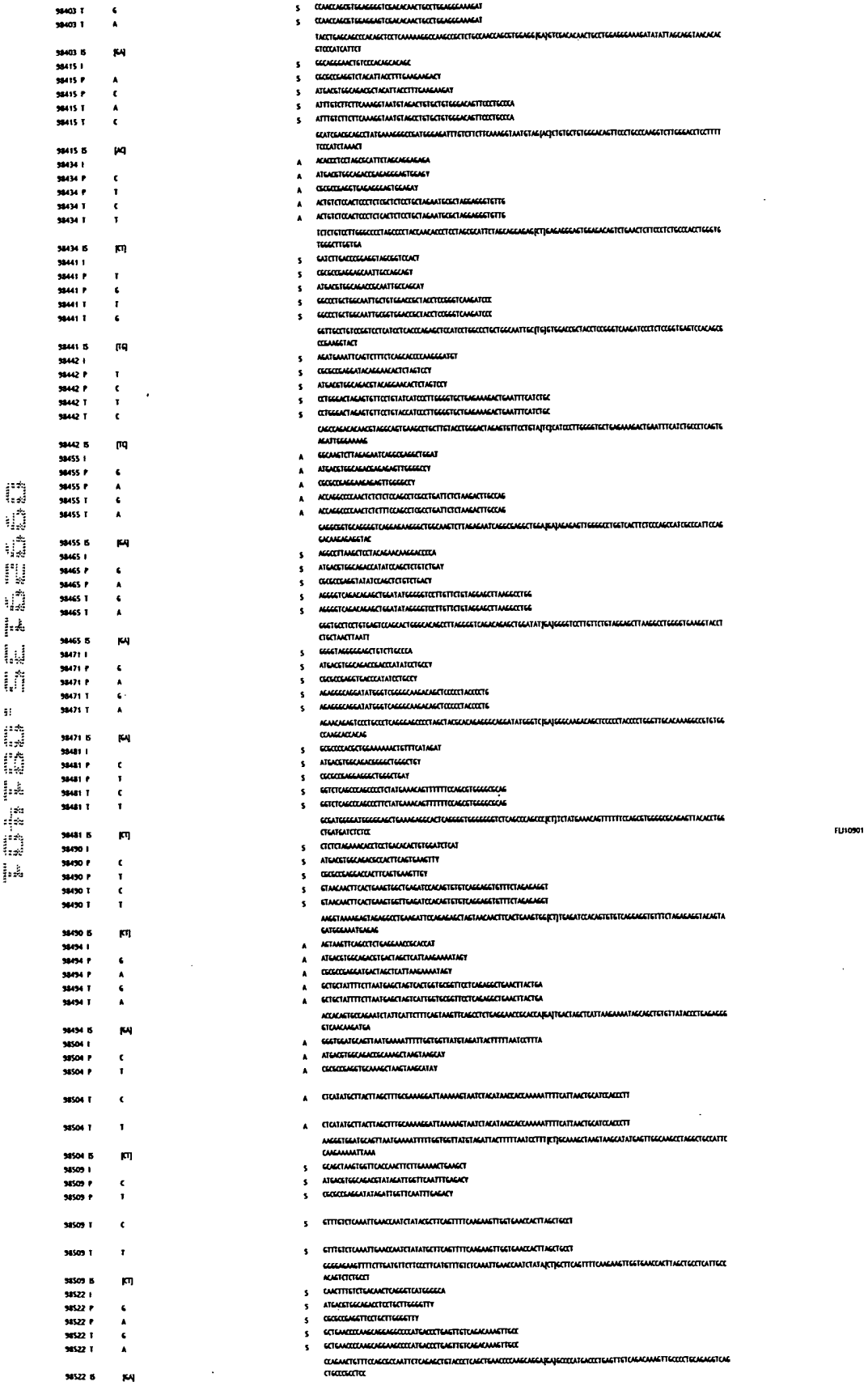
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FLJ10901

FIGURE 129C

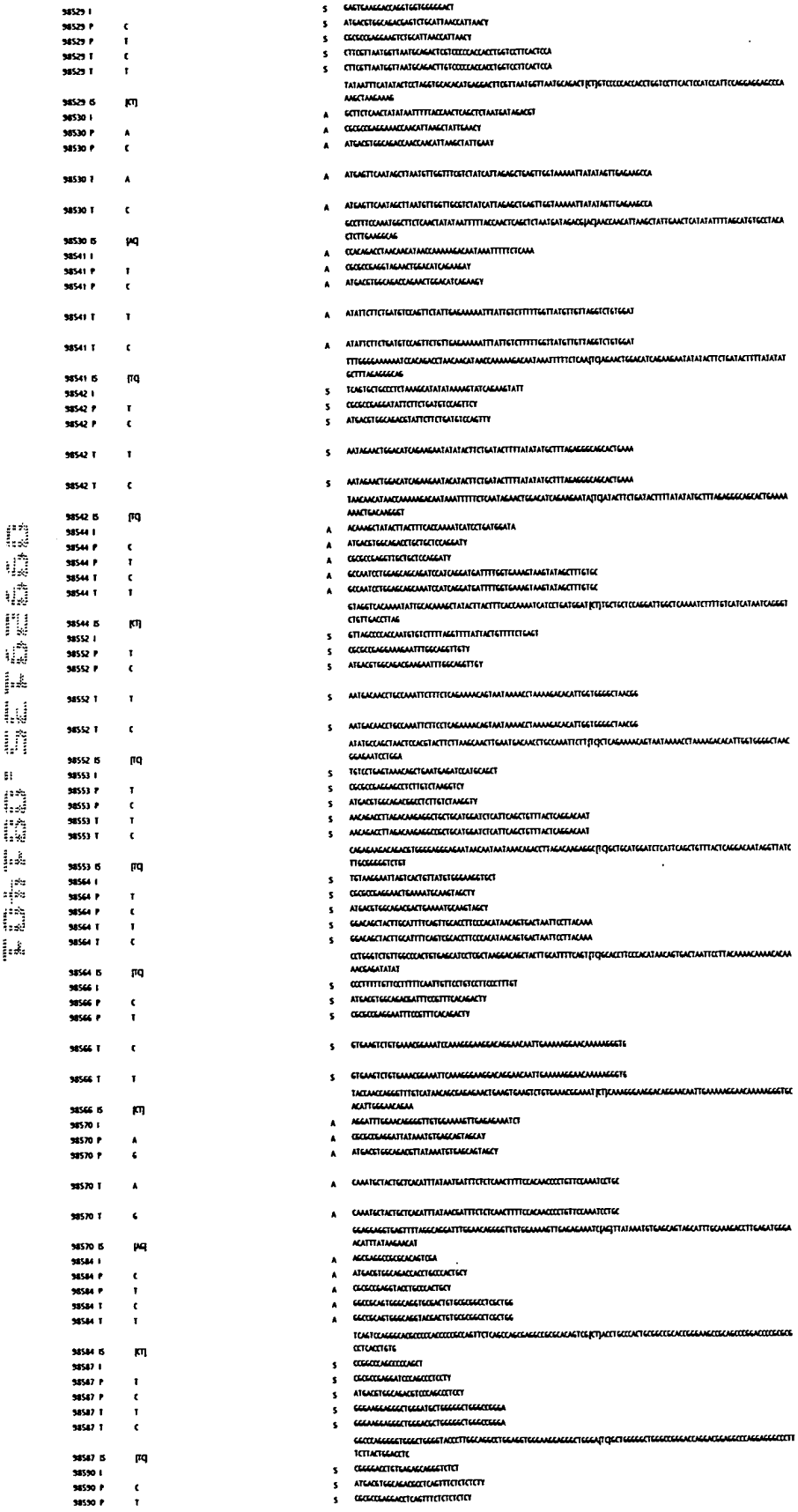


FIGURE 129C

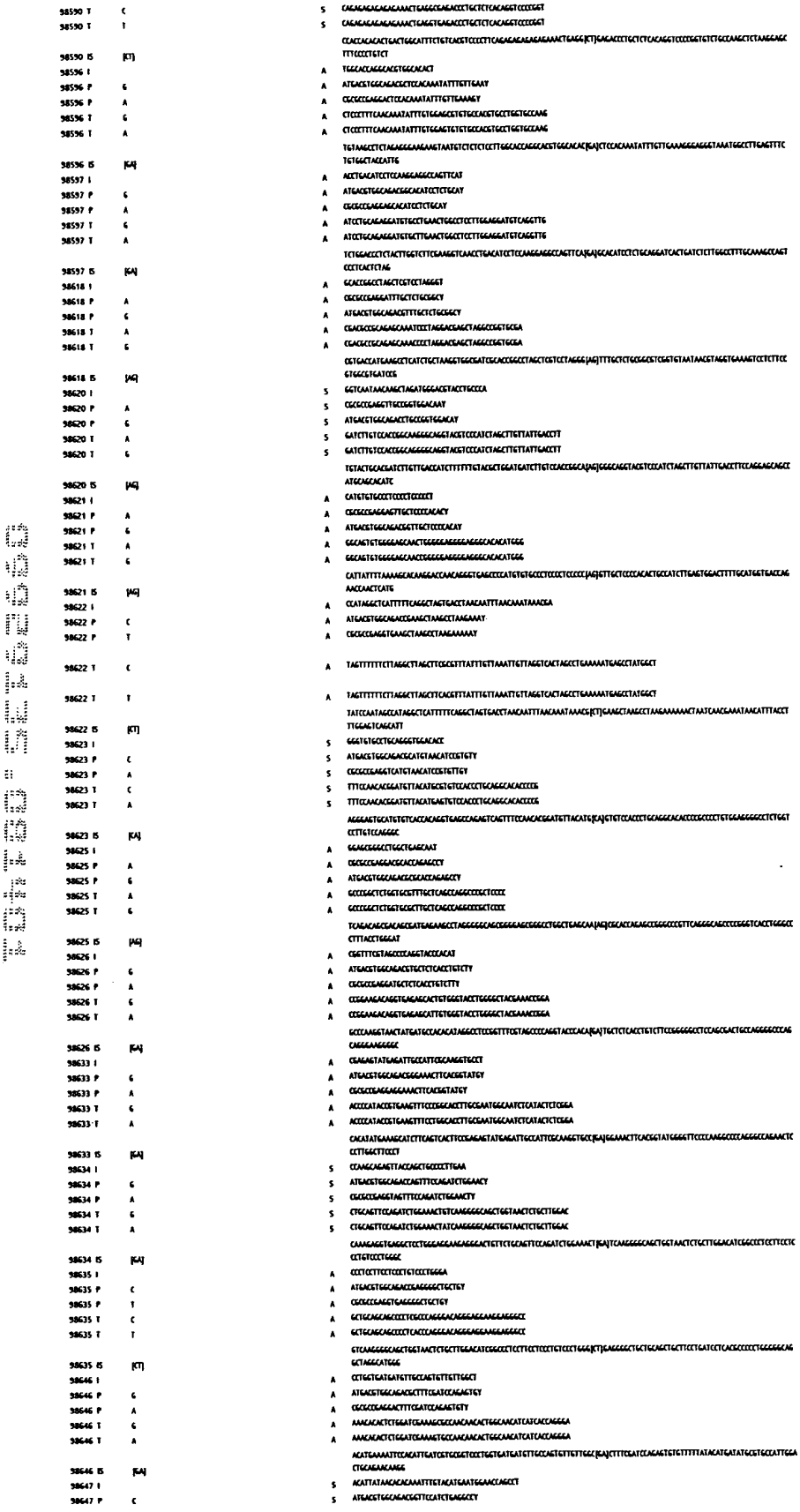


FIGURE 129C

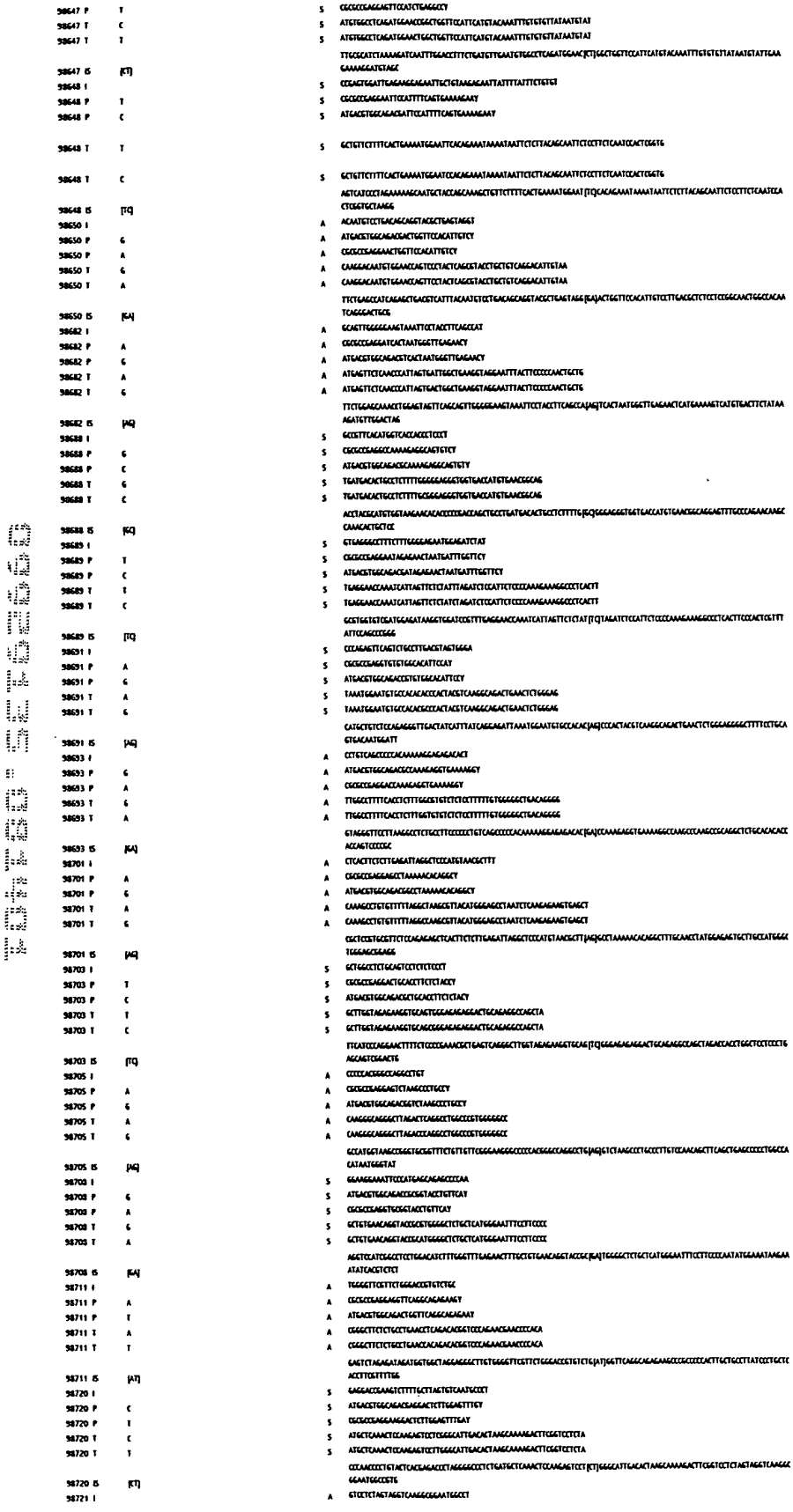
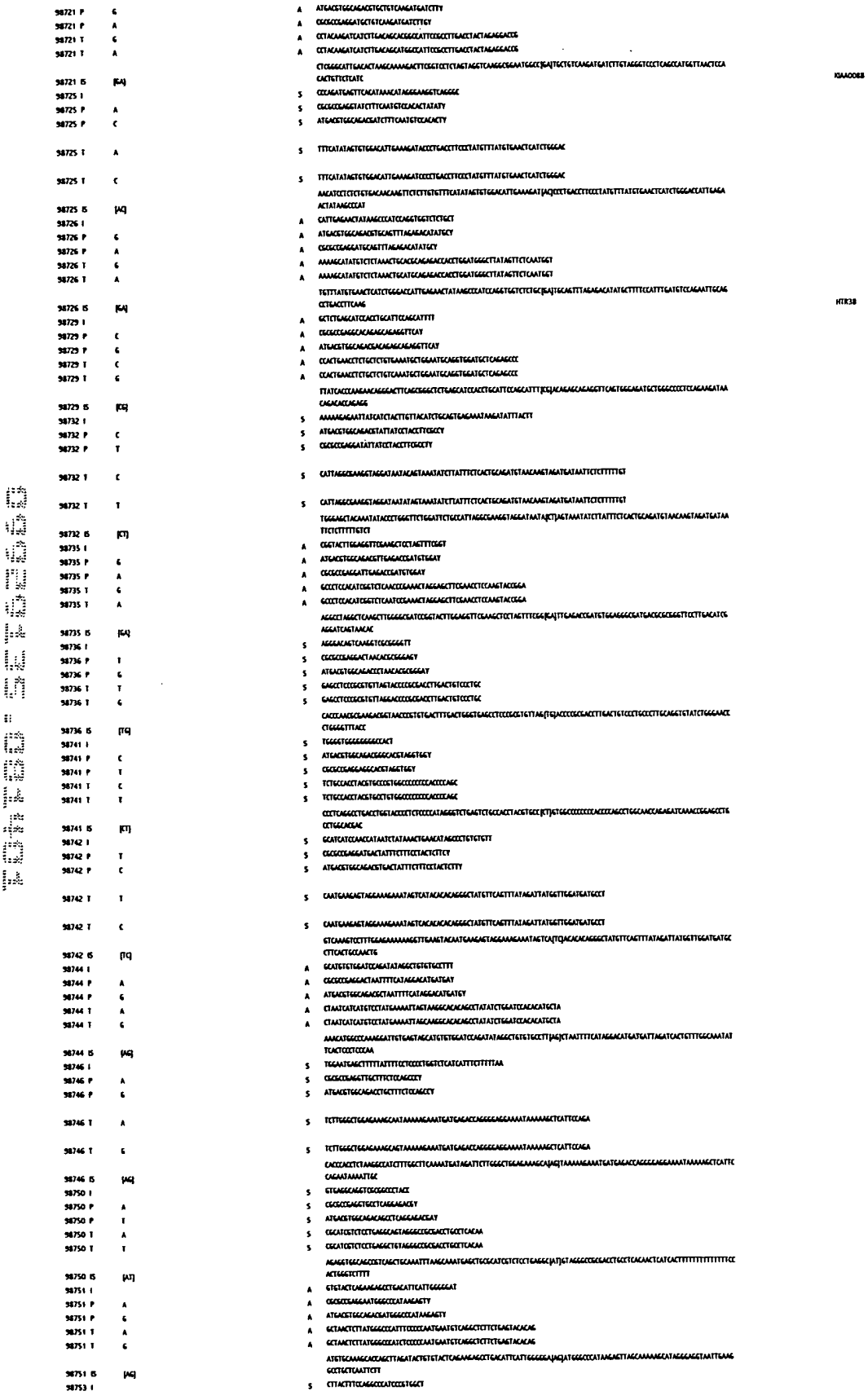
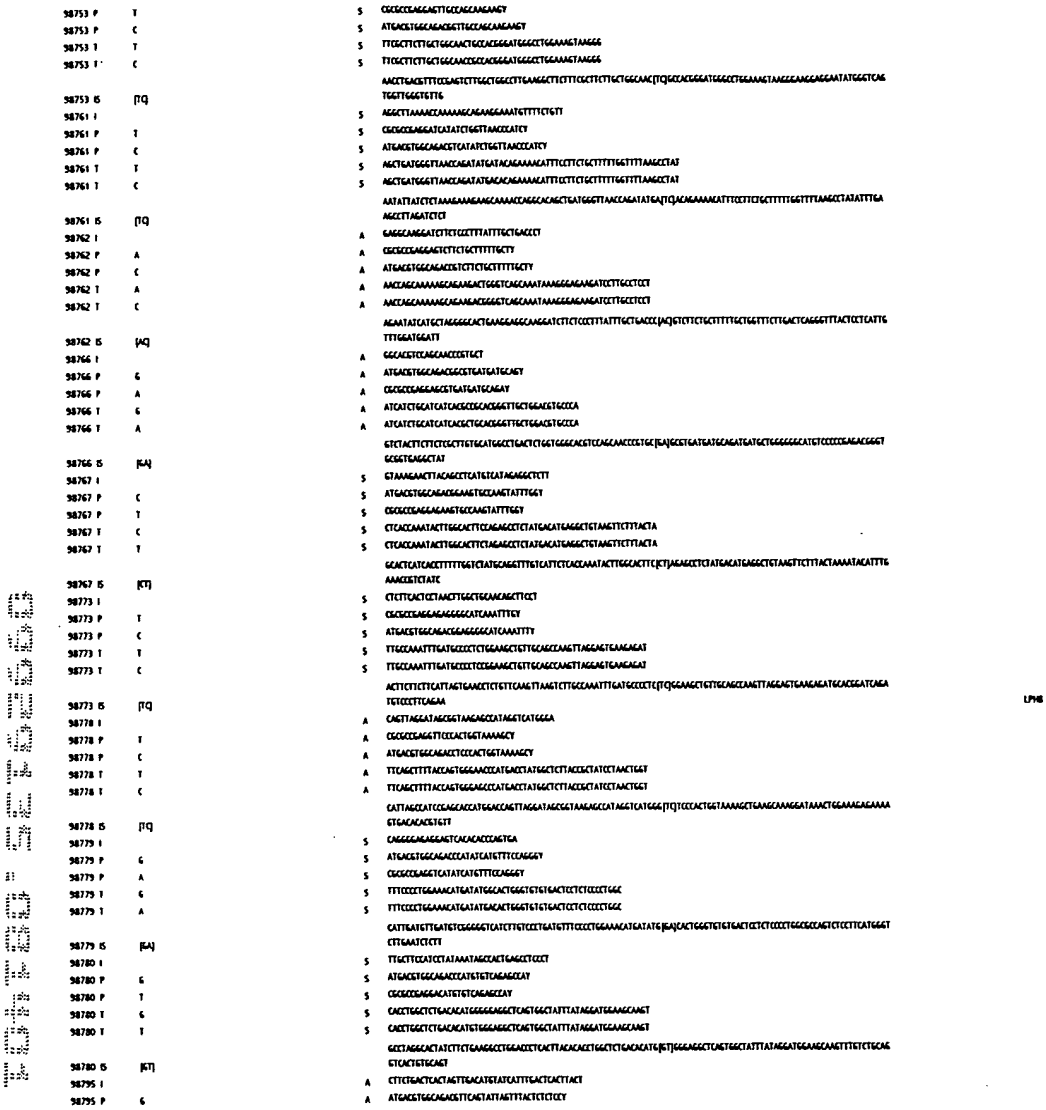


FIGURE 129C





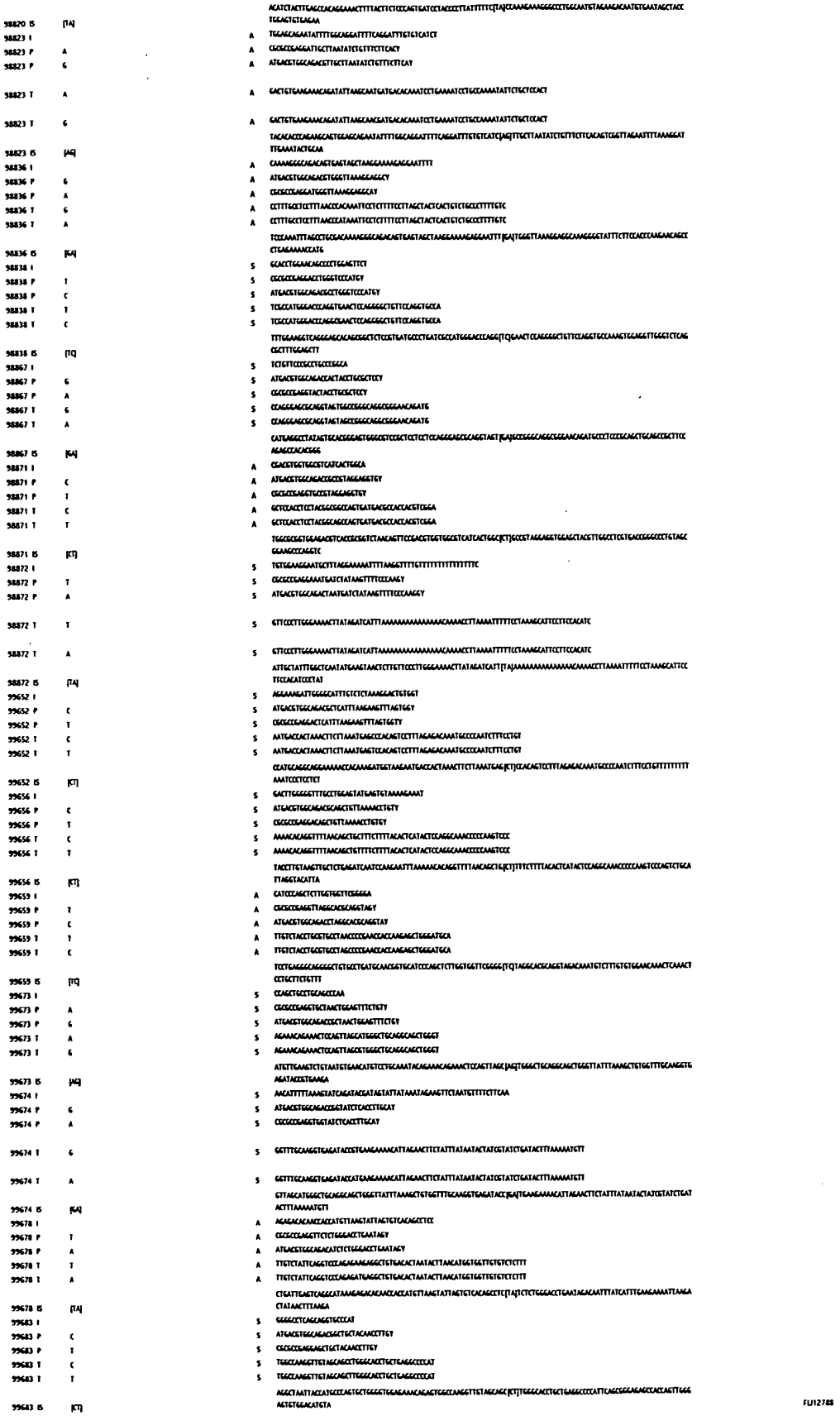
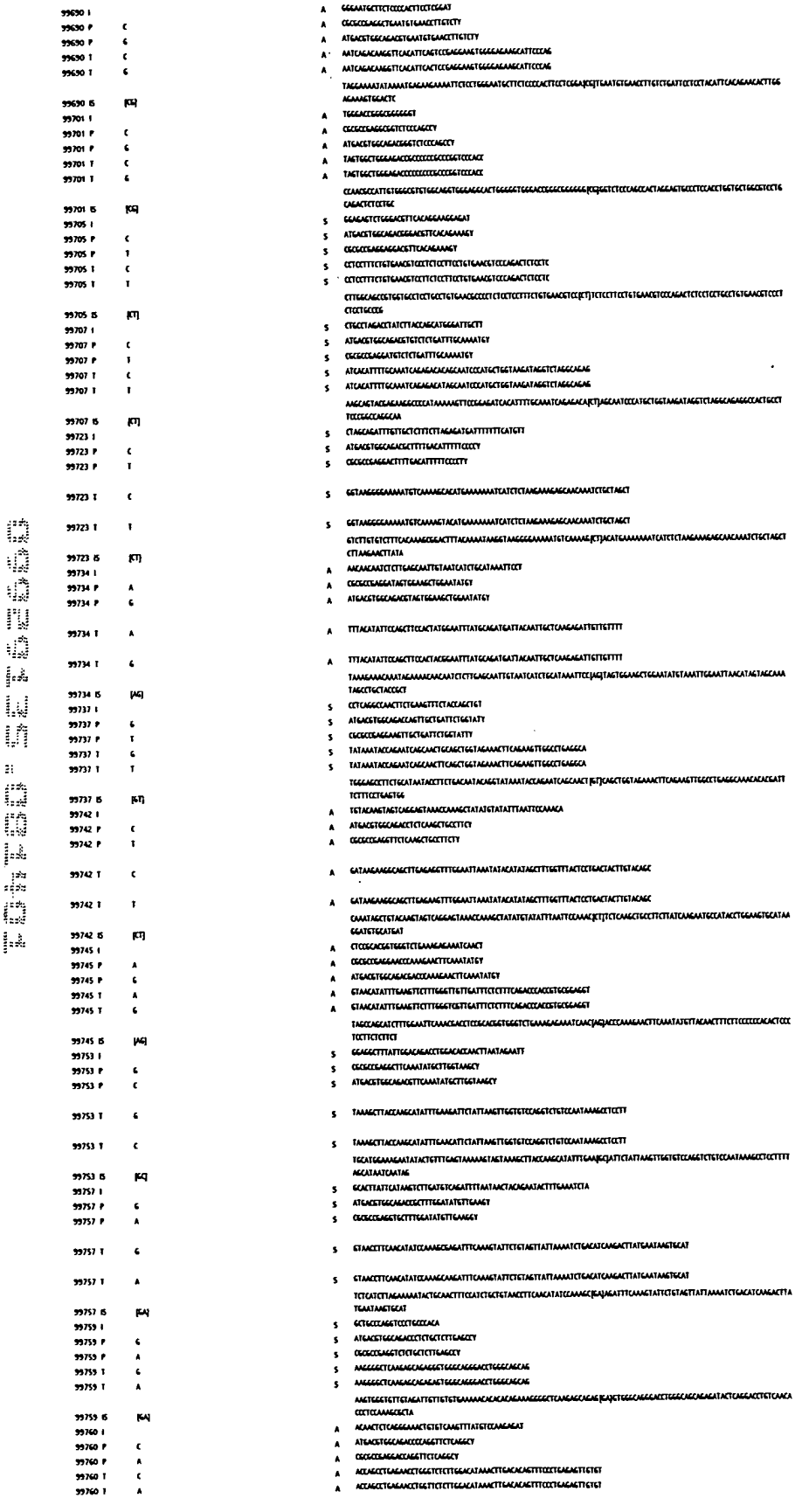


FIGURE 129C





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99760 IS	[CA]		TGGCTTCTGCCATC	
99761 I		S	CTGGAACCCCCTTGCCAGCTGGGC	
99761 P	A	S	CGCGCCAGCTCCTACTGATGGCAGAAGY	
99761 P	C	S	ATGACGTGGCAGACGCCTACTGATGGCAGAY	
99761 T	A	S	TTGGCTTCTGCCATCAGTAGGACCCAGCTGGCAAGGGGGTTCCAGAG	
99761 T	C	S	TTGGCTTCTGCCATCAGTAGGCCCCAGCTGGCAAGGGGGTTCCAGAG	
			TCTCAGGCTGGTAGGATGGATGACTGGTCTTTAGAAATGTTGGCTTCTGCCATCAGTAGG[AC]CCCAGCTGGCAAGGGGGTTCCAGAGGCAGGTGTGTAGGAAGGTCTT	
99761 IS	[AC]		CTCACAGCACCTCA	
99764 I		A	GGGTGGTGCCATGGCGCACTCTA	
99764 P	C	A	ATGACGTGGCAGACGCCACCCCTATAAAGTTCAGY	
99764 P	T	A	CGCGCCGAGGTGACCCCTATAAAGTTCAGTY	
99764 T	C	A	CCAAACTGAACTTTATAGGGGTCGAGAGTGCGCCATGGCACCACCCAC	
99764 T	T	A	CCAAACTGAACTTTATAGGGGTCAAGAGTGCGCCATGGCACCACCCAC	
			GCTGTGTCCCCTGCTTCTGAAGATGACATCTTCAGGGTGGGTGGTGCCATGCCGCACTCT[CT]GACCCCTATAAAGTTCAGTTTGCAGCAAGAGGTTGGGCTGGGGTTTT	
99764 IS	[CT]		GCGGGCAACGTCC	
99769 I		A	TGGCAAAGCACGTGTGCTGATTAAAAGTCCCAT	
99769 P	A	A	CGCGCCGAGCAAGCAAAGCAAGTGCAAGAY	
99769 P	G	A	ATGACGTGGCAGACAGCAAAGCAAGTGCAAGY	
99769 T	A	A	TCCATCTTCCACTTCCTTTCCTTTGGGACTTTTAATCAGCACACGTGCTTTGCCACA	
99769 T	G	A	TCCATCTTCCACTTCCTTTCCTCTGGGACTTTTAATCAGCACACGTGCTTTGCCACA	
			TGGGCAGAAGCTGCAGTCCCTGGCCTGTGGCAAAGCACGTGTGCTGATTAAAAGTCCCA[AG]AGGAAAGGAAGTGGAAGATGCAGACAAGTTCATTTTTAATGCAGAG	CUL4A
99769 IS	[AC]		TTCAAGCACAAGTT	
99778 I		S	AGATTTGACATTTTGTTGGATGACAGAGCTCATGCAGTTTCATC	
99778 P	C	S	ATGACGTGGCAGACGCCCCTTGATCATTTCAY	
99778 P	A	S	CGCGCCGAGGTCCCCTTGATCATTTCACY	
99778 T	C	S	AAAAGTGAAATGATCAAGGGGCATGAAACTGCATGAGCTCTGTCATCCAACAAAATGTCAAATCTAG	
99778 T	A	S	AAAAGTGAAATGATCAAGGGGAATGAAACTGCATGAGCTCTGTCATCCAACAAAATGTCAAATCTAG	
			CAAAGAAAAGAGAAAAAAGTCAAAGGCAACTTAAAAAAAAAAGTGAAATGATCAAGGGG[CA]ATGAAACTGCATGAGCTCTGTCATCCAACAAAATGTCAAATCTAG	
99778 IS	[CA]		CAGACATGTTTTTCC	
99779 I		S	GGGGCCGGCGCCTGGGT	
99779 P	T	S	CGCGCCGAGCAGGGATCTGCGCCY	
99779 P	C	S	ATGACGTGGCAGACGGGGATCTGCGCCY	
99779 T	T	S	GGGGGGCGCAGATCCCTCCCAGGCGCCGCCCCAG	
99779 T	C	S	GGGGGGCGCAGATCCCCCCCAGGCGCCGCCCCAG	
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99779 IS	[TC]		TCCGCGGAGGAA	
99780 I		A	GGCAGGCTAGAGCCCTGCAATATGCTTTCTTCT	
99780 P	G	A	ATGACGTGGCAGACGCTGAAAGGAAAGCAAATAAGY	
99780 P	A	A	CGCGCCAGCACTGAAAGGAAAGCAAATAAGY	
99780 T	G	A	ACCACTTATTTGCTTTCCTTTCAGCGAAGAAAGCATATTGCAGGGCTCTAGCCTGCCCT	
99780 T	A	A	ACCACTTATTTGCTTTCCTTTCAGTGAAGAAAGCATATTGCAGGGCTCTAGCCTGCCCT	
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99780 IS	[GA]		AAAACAGCATCAG	
99786 I		S	GGTTAATTGCTAATTTTCAGGTACCAAATCTTGCACTAGTGCTGAAA	
99786 P	G	S	ATGACGTGGCAGACCAGAAGGTGACAAGAGATGGY	
99786 P	A	S	CGCGCCGAGGTAGAAGGTGACAAGAGATGGY	
99786 T	G	S	AAATCCATCTCTTGTCACCTTCTGTTCAGCACTAGTGCAAGATTTGGTACCTGAAAATTAGCAATTAACCTA	
99786 T	A	S	AAATCCATCTCTTGTCACCTTCTATTCAGCACTAGTGCAAGATTTGGTACCTGAAAATTAGCAATTAACCTA	
			ATGAGCAGGGGCAAGGGGGTATGAAAAAAGGATCATGAAATCCATCTCTTGTCACCTTCT[GA]TTCAGCACTAGTGCAAGATTTGGTACCTGAAAATTAGCAATTAACC	
99786 IS	[GA]		TAAAGAATGATTTT	
99787 I		S	CTCCTGAAGTTATAAAAGGATAATCGATTTGTGAACCAGGTAGAAATTAAGTAGCTT	
99787 P	C	S	ATGACGTGGCAGACGTCACTTGAATAATTAGGACAATAGY	
99787 P	T	S	CGCGCCGAGGATCACTTGAATAATTAGGACAATAGY	
99787 T	C	S	CTCTCTATTGTCCTAATTATTCAAGTGACAGCTACTTAATTTCTACGTGGTTCACAAATCGATTATCCTTTTATAACTTCAGGAGCA	
99787 T	T	S	CTCTCTATTGTCCTAATTATTCAAGTGATAGCTACTTAATTTCTACGTGGTTCACAAATCGATTATCCTTTTATAACTTCAGGAGCA	
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99787 IS	[CT]		CTTCAGGAGCACC	
99788 I		S	TTGAGTTGTTTGAAGAAACAAGCAGATATTTTAATGTGCCTT	
99788 P	T	S	CGCGCCGAGGATTTCTGTGTAATTTGACTCCTY	
99788 P	C	S	ATGACGTGGCAGACGTTTCTGTGTAATTTGACTCCY	
99788 T	T	S	TTTCAGGAGTCAAATTACACAGAAATAGGCACATTAAAATATCTGCTTGTTTCTTTCAAACAACTCAATA	
99788 T	C	S	TTTCAGGAGTCAAATTACACAGAAACAGGCACATTAAAATATCTGCTTGTTTCTTTCAAACAACTCAATA	
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99788 IS	[TC]		TTTCAATCATGATC	
99789 I		S	GGAAAGCAAAACCCATGGTGATGAGCAGCAT	
99789 P	T	S	CGCGCCGAGGATGTTTAACTGTCCCTGTGY	
99789 P	C	S	ATGACGTGGCAGACGTGTTTAACTGTCCCTGTGY	
99789 T	T	S	ACTACACAGGGCAGTTAAACATTGCTGCTCATCACCATGGGTTTTGCTTTCCCC	
99789 T	C	S	ACTACACAGGGCAGTTAAACACTGCTGCTCATCACCATGGGTTTTGCTTTCCCC	
			TGTATGCATATGTGCACAGATGTGTGTATACCACAAATACTACACAGGGCAGTTAAACA[TC]TGCTGCTCATCACCATGGGTTTTGCTTTCCCCATCATGGCCACTCAC	
99789 IS	[TC]		TAGCAGAACATA	
99791 I		A	AGGCCAGGTCAGAGCTGCTGGTCACT	
99791 P	A	A	CGCGCCGAGGAATGCCGACCAAACTTGY	
99791 P	G	A	ATGACGTGGCAGACGATGCCGACCAAACTTY	
99791 T	A	A	TCGCCAAGTTTGGTCGGGCATTGTGACCAGCAGCTCTGACCTGGCCTCC	
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99791 IS	[AG]		ACTCAGCTGTCCCC	
99793 I		A	GGCCGGGAAGAATGGACATGGCTGGA	
99793 P	C	A	ATGACGTGGCAGACCCCAGGTTCCTAACACAY	
99793 P	T	A	CGCGCCAAGTCCAGGTTCCTAACACATY	
99793 T	C	A	AACTATGTGTTAGGAACCTGGGCCAGCCATGTCCATTCTTCCCGGCCTC	
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99794 I		S	CCTATGCCAGCAATCTCATTCAGGGGTTGGATGATT	
99794 P	T	S	CGCGCCGAGGATTGAAAGTACGGATGTACTGY	
99794 P	C	S	ATGACGTGGCAGACGTTGAAAGTACGGATGTACTY	
99794 T	T	S	TCTTCAGTACATCCGTACTTTCAATATCATCCAACCCCTGAATGAGATTGCTGGCATAGGTT	
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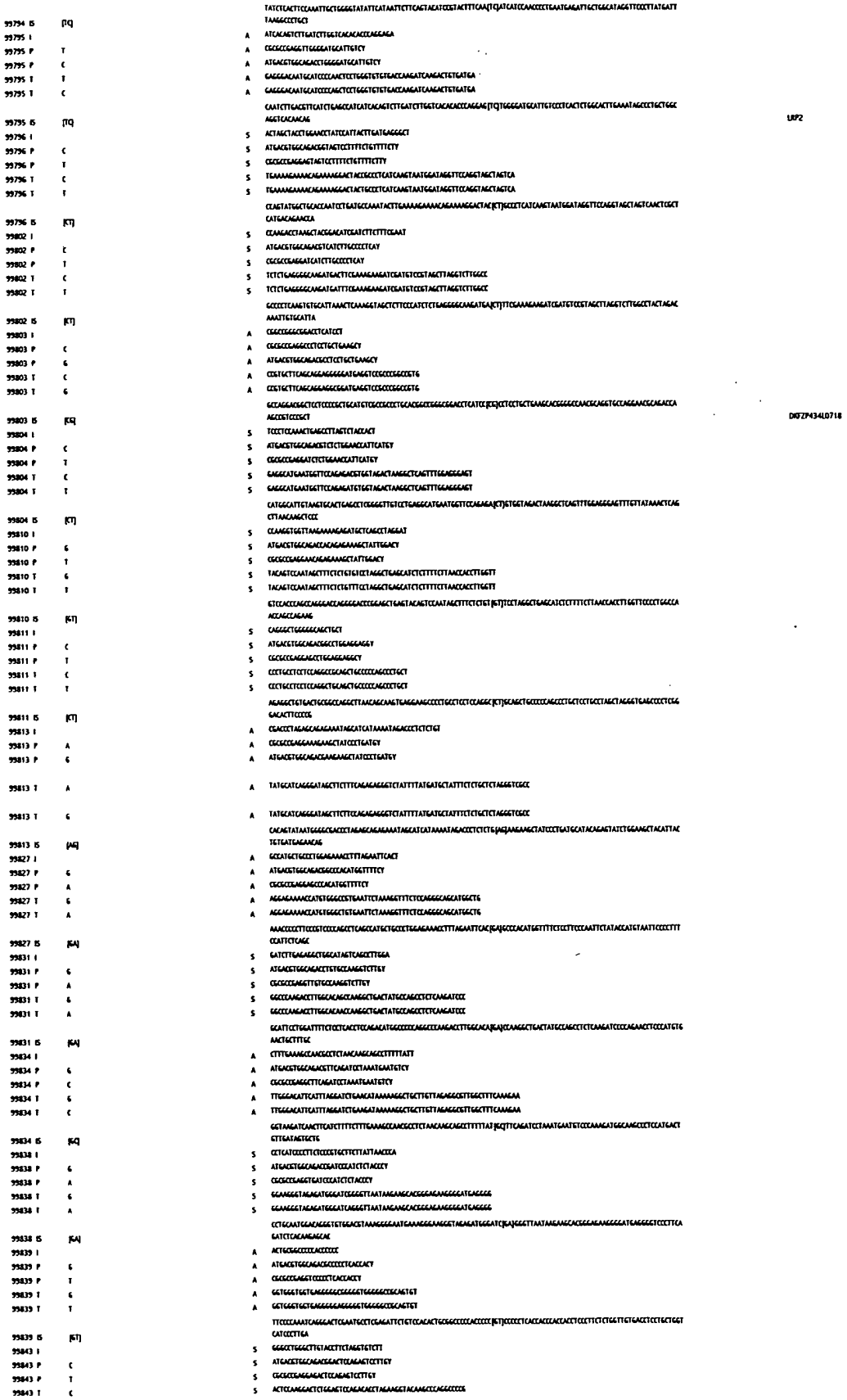
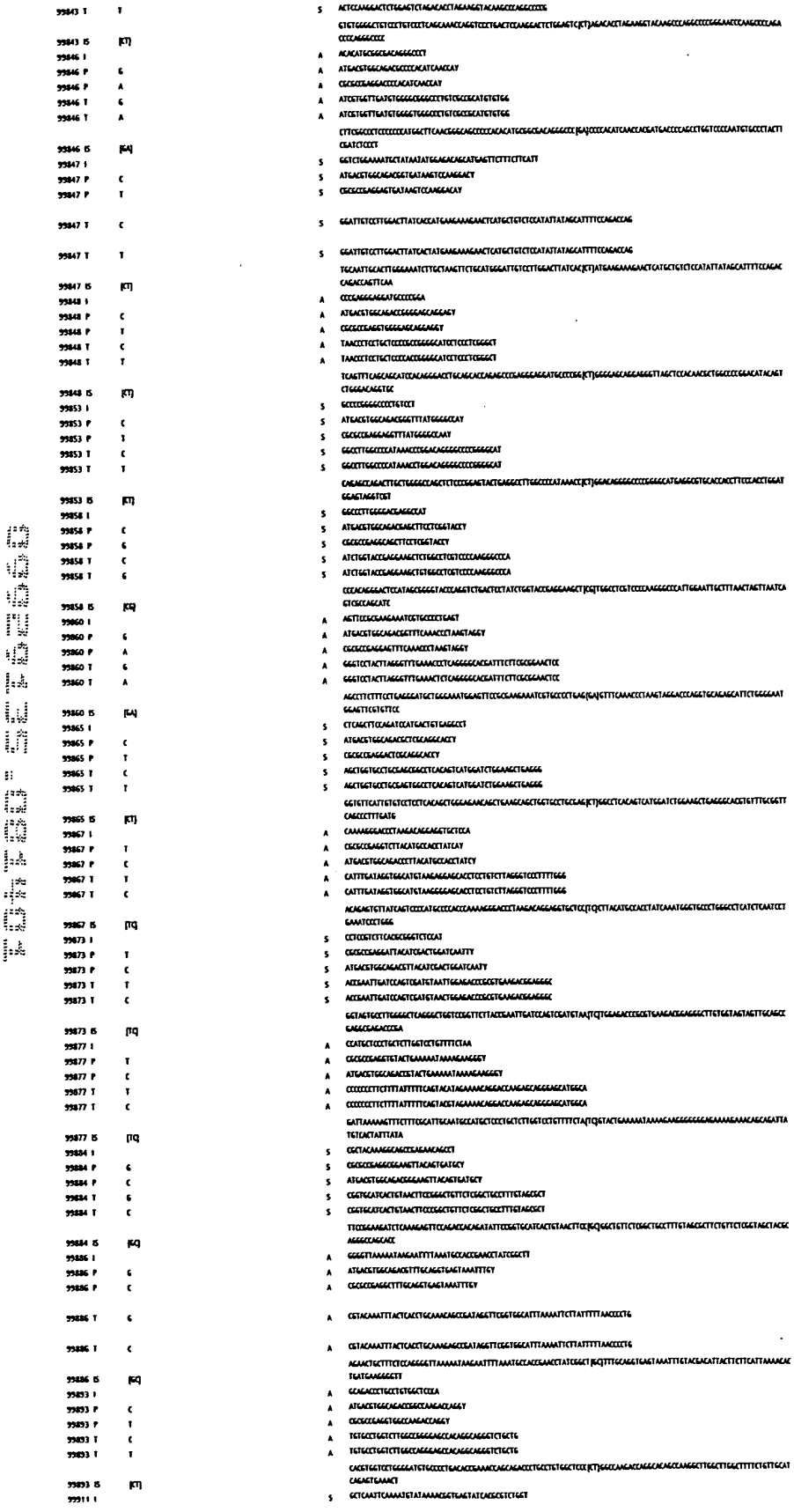
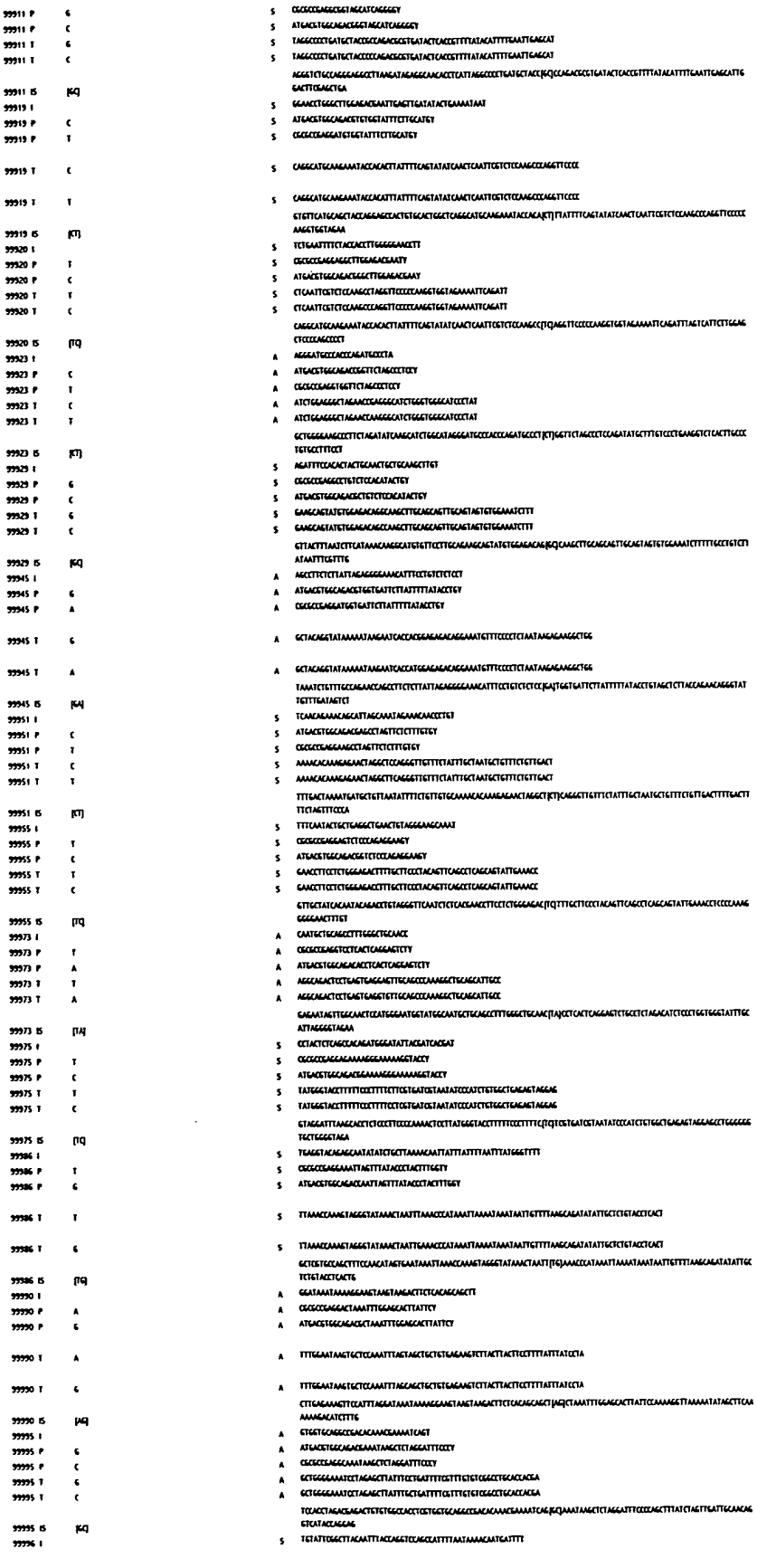
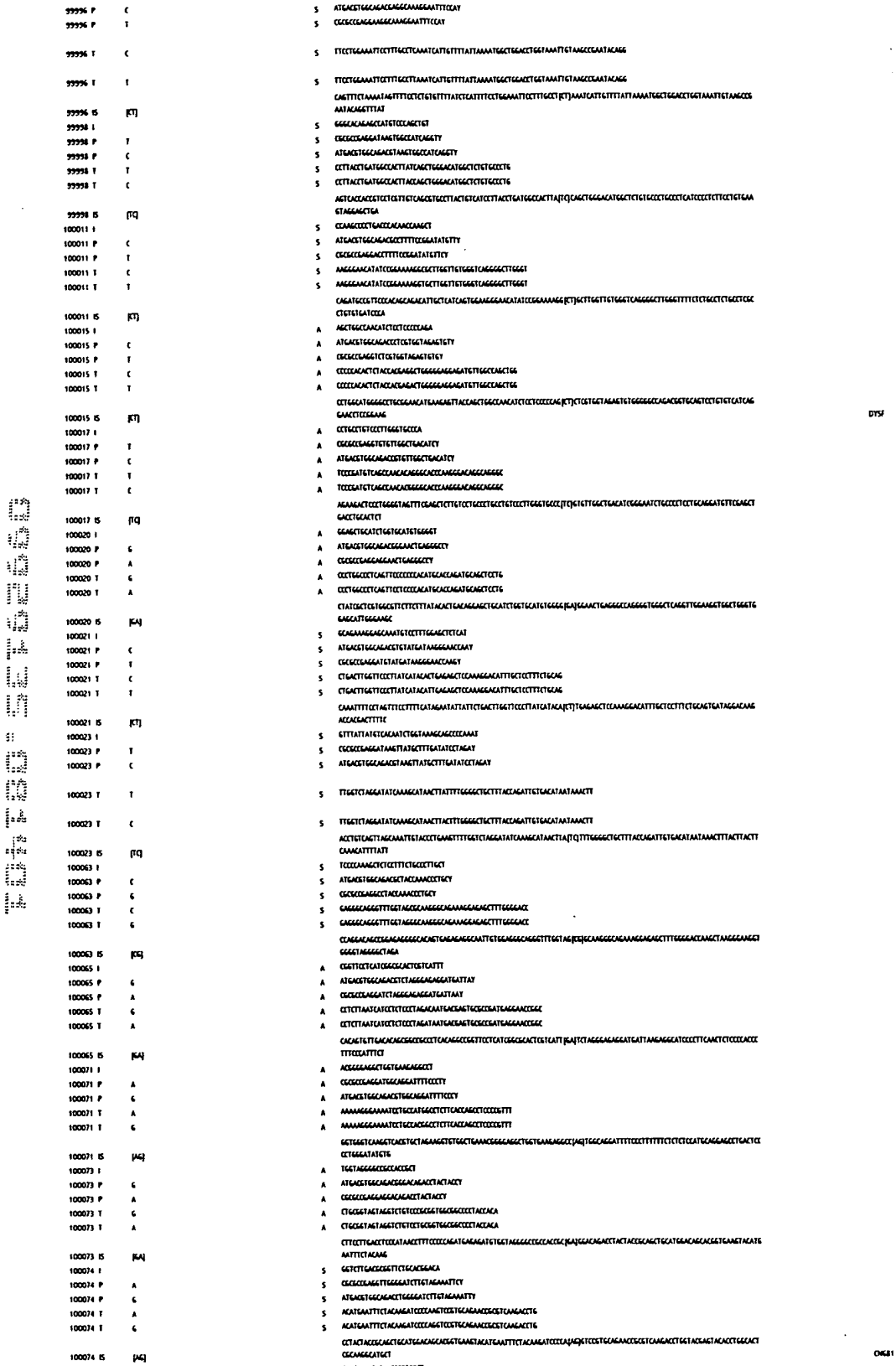
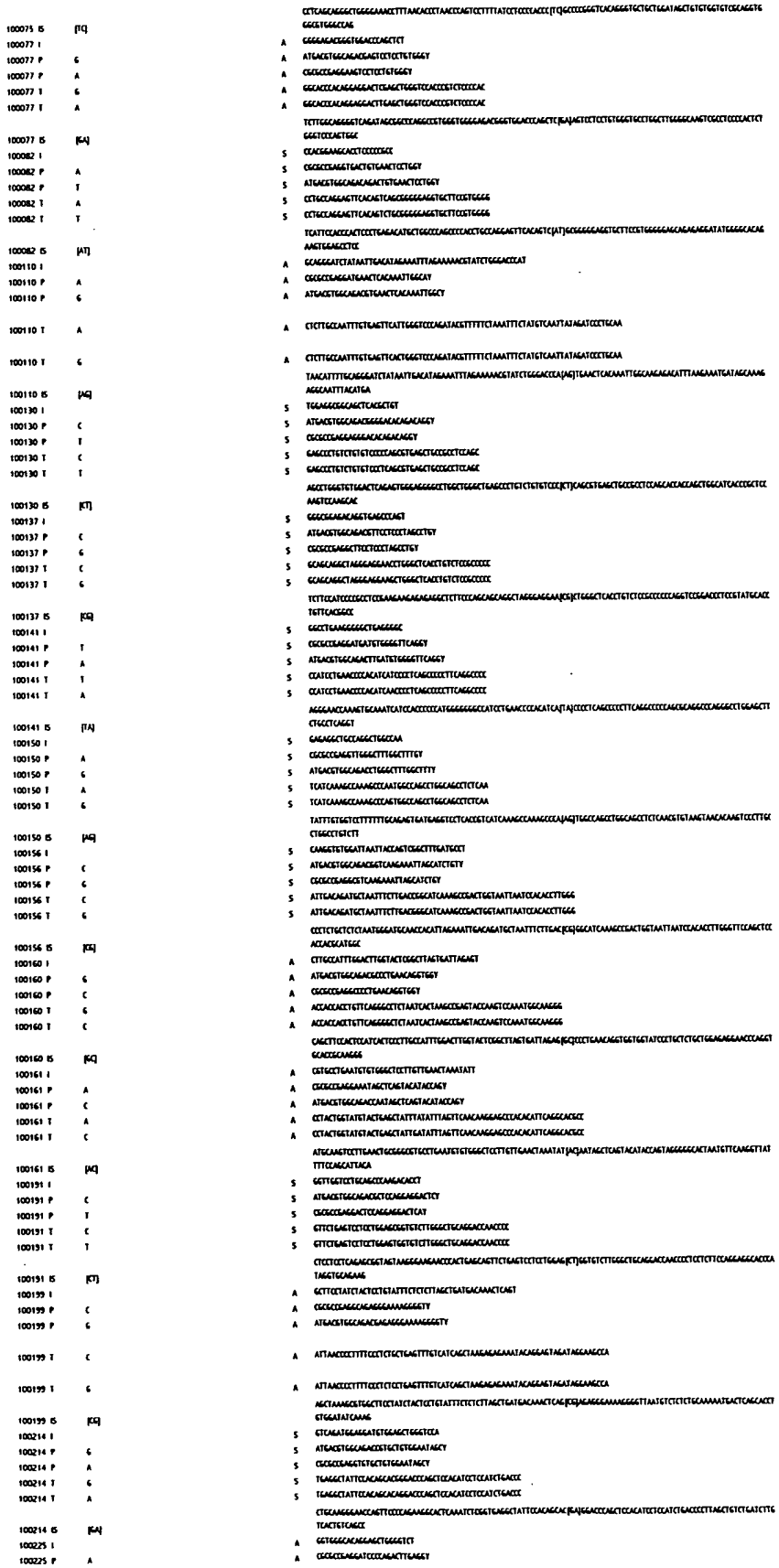


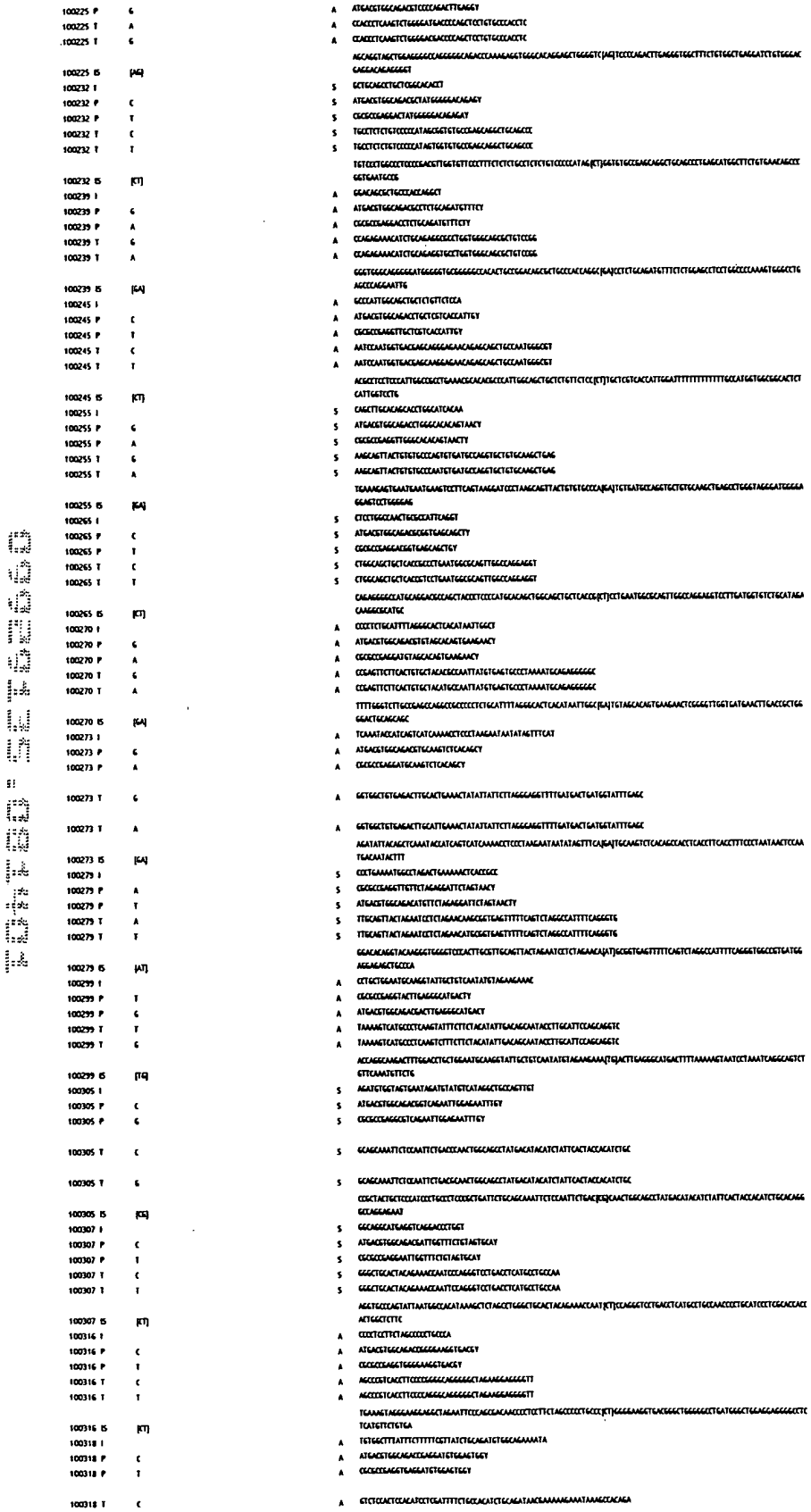
FIGURE 129C









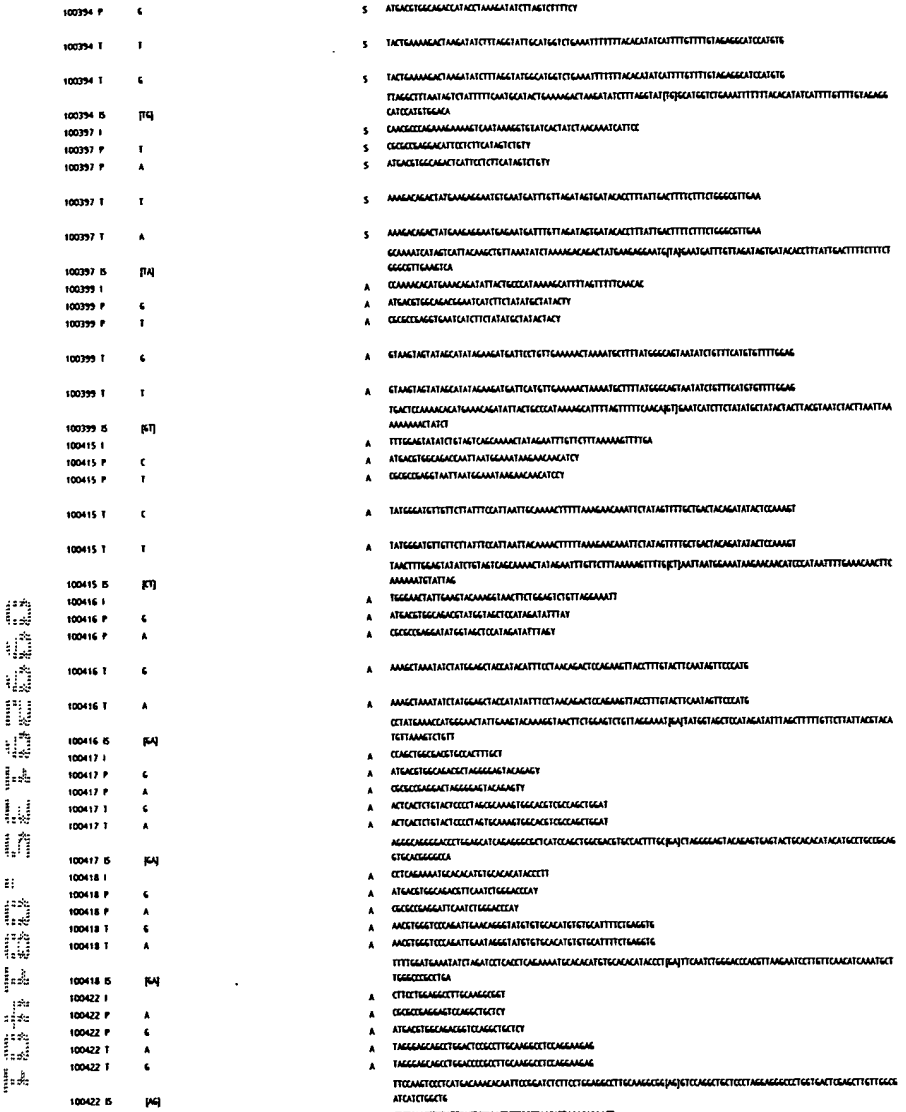


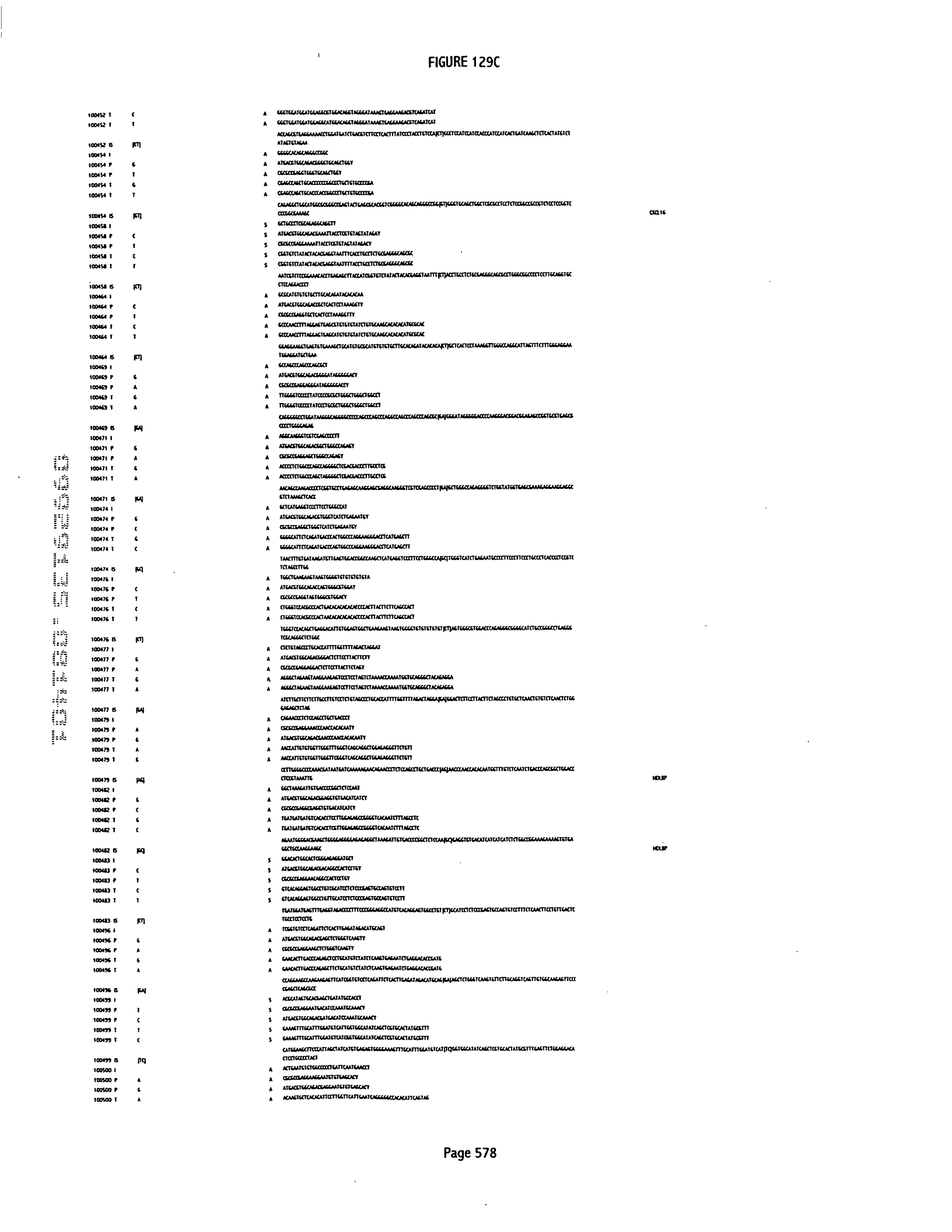


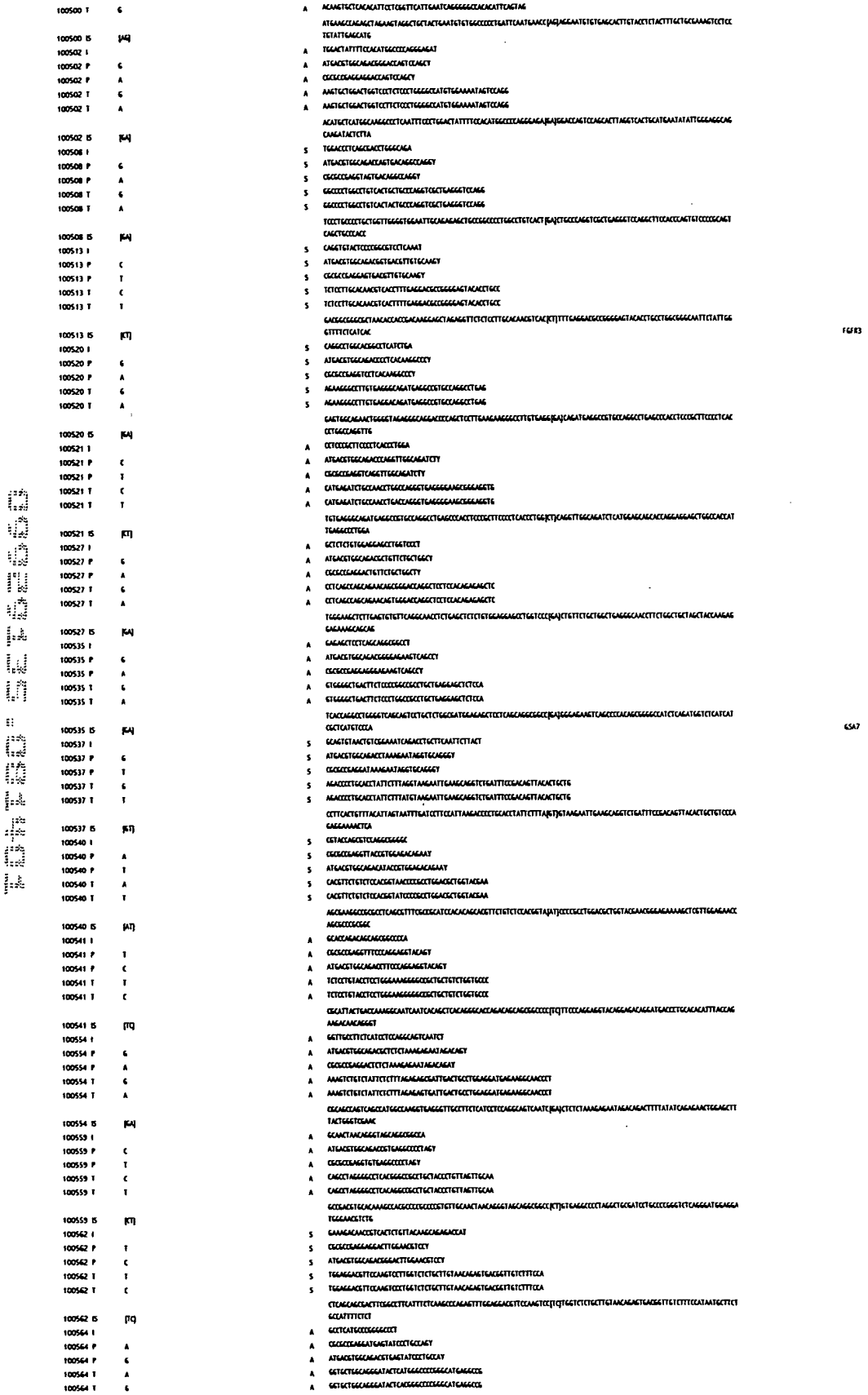
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100319 I		A	AGCACATCGAGGCGCCCCCT	
100319 P	G	A	ATGACGTGGCAGACGACATCATGCACTACGCY	
100319 P	A	A	CGCGCCCAGCAACATCATGCACTACGCY	
100319 T	G	A	CAGGGCGTAGTGCATGATGTCGGGGGCCGCCTCGATGTGCTGC	
100319 T	A	A	CAGGGCGTAGTGCATGATGTTGGGGGCCGCCTCGATGTGCTGC	
100319 IS	[GA]		TCCTGGTCGGAAAGGAAGTCGTCTTTGAAGCACATCATGCAGCACATCGAGGCGCCCCCJGAJACATCATGCACTACGCCCTGCTGGCCTCGCGGAAGTGGTCCAGCAAG ACCCGGGCCAGCG	KIAA0575
100335 I		A	CTACTGCTCTAAGTGCAGGCAGGCGTCTCT	
100335 P	A	A	CGCGCCAGGATGGGCACTTACGATCTY	
100335 P	G	A	ATGACGTGGCAGACGTGGGCACTTACGATCT	
100335 T	A	A	ATAAAGATCGTAAGTGCCCATGAGACGCCTGCCTGCACTTAGAGCAGTAGCG	
100335 T	G	A	ATAAAGATCGTAAGTGCCCACGAGACGCCTGCCTGCACTTAGAGCAGTAGCG	
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100347 I		A	CCACCTGCTTGCGGACCCTGGAAGT	
100347 P	A	A	CGCCCCGAGGAAGCGACAAGGTGAGGY	
100347 P	C	A	ATGACGTGGCAGACCAGCGACAAGGTGAGY	
100347 T	A	A	TCCACCTCACCTTGTCGCTTCTTCCAGGGTCCGCAAGCAGGTGGTG	
100347 T	C	A	TCCACCTCACCTTGTCGCTGCTTCCAGGGTCCGCAAGCAGGTGGTG	
100347 IS	[AC]		GGGAATCCAGGCGGACAATGAAGGACGGAATGTTCACCACCTGCTTGCGGACCCTGGAAGJACJAGCGCACAAGGTGAGGTGGACTGGAGGAGAAACGGACGCTAACCCCA GCTACCGCACCACT	
100355 I		S	AGCTGAAGGTTTGCTGGTTGGTAATGGGTTTTCCT	
100355 P	C	S	ATGACGTGGCAGACGTGTGTGCTTTGTGTGTY	
100355 P	G	S	CGCGCCGAGGCTGTGTGCTTTGTGTGTY	
100355 T	C	S	AGACACACACAAGCACACACGGAAAACCCATTACCAACCAGCAAACCTTCAGCTAC	
100355 T	G	S	AGACACACACAAGCACACACGGGAAAACCCATTACCAACCAGCAAACCTTCAGCTAC	
100355 IS	[CG]		TCTGAGTGAGCCAGTACGATCAGTGCTCTTCTGCCTACAGAGACACACACAAAGCACACAGJCJGGAAAACCCATTACCAACCAGCAAACCTTCAGCTACAGGGGAGTTGC AGTCTGTAAAGGA	
100359 I		A	GCCTTTGAGATCCTCCAGGTTCTCGATGCTCTCT	
100359 P	A	A	CGCGCCGAGGAATCATCTCCTCGTGCTCY	
100359 P	G	A	ATGACGTGGCAGACGATCATCTCCTCGTCCTY	
100359 T	A	A	CGAGCAGGACGAGGAGATGATTGAAGAGCATCGAGAACCTGGAGGATCTCAAAGGCCA	
100359 T	G	A	CGAGCAGGACGAGGAGATGATCGAGAGCATCGAGAACCTGGAGGATCTCAAAGGCCA	
100359 IS	[AG]		CATGCTCACCACTCGCGCACAGAGTGGCCTTTGAGATCCTCCAGGTTCTCGATGCTCTCJAGJATCATCTCCTCGTCCTCCTCGCCGTCCTCCGTGGCCCGCTCCACCTGGCG GCGCTTGCGG	MCM2
100374 I		S	AGGCACGGGGCTGGGTGGCA	
100374 P	G	S	ATGACGTGGCAGACCTTGGTGGGTCCCTGY	
100374 P	A	S	CGCGCCGAGGTTTGGTGGGTCCCTGY	
100374 T	G	S	CTCACAGGGACCCACACAAGCCACCCAGCCCCGTCCCTGG	
100374 T	A	S	CTCACAGGGACCCACACAAGCCACCCAGCCCCGTCCCTGG	
100374 IS	[GA]		GACTGTGATGCTTCCCCCCATGTGACACCTGGGGCCAGGCACCTCACAGGGACCCACCAAJGAJGCCACCCAGCCCCGTCCCTGGGCGGCTCCCCACAGCAAGCCCGGATTCCC CATCCTACCTC	
100375 I		A	CGACCTCTTTATTCTATAGCTCAGGCTCCTCTTGGGGGC	
100375 P	A	A	CGCGCCGAGGAACAGCCAGAGCCCY	
100375 P	T	A	ATGACGTGGCAGACTACAGCCAGAGCCCY	
100375 T	A	A	CCCTGGGCTCTGGCTGTTCCCCCAAGAAGAGCCTGAGCTATAGAAATAAAGAGGTCGGA	
100375 T	T	A	CCCTGGGCTCTGGCTGTACCCCCAAGAAGAGCCTGAGCTATAGAAATAAAGAGGTCGGA	
100375 IS	[AT]		GGACGCGCAGACATCCACTCCGACCTCTTTATTTCTATAGCTCAGGCTCCTCTTGGGGGGJATJACAGCCAGAGCCCAGGGCCTGTACGAGACGATCAACGTGACGGTAAG AGGGTGTGAGAAC	
100377 I		S	CGGAAGTTGGAAACTGCCCTCACCTGTT	
100377 P	C	S	ATGACGTGGCAGACGAGGCTGACACACGGY	
100377 P	T	S	CGCGCCGAGGAAGGCTGACACACGGY	
100377 T	C	S	GAGACCTGGTGTCAGCCTCACAGGTGAGGGCAGGTTCCAACTTCCCAG	
100377 T	T	S	GAGACCTGGTGTCAGCCTTACAGGTGAGGGCAGGTTCCAACTTCCCAG	
100377 IS	[CT]		GTCTTCCCTGACCTCTTCGCGCCCCCGAGGGCTGCTGACATTGAGACCTGGTGTCAGCCTJCTJACAGGTGAGGGCAGGTTCCAACTTCCCAGTGGCGGTTTCAGGGCCTAG AAAAGAGTGAGT	
100379 I		A	CGTAACCCTGCTAAGTCTGTGCTTTGCAAAAATTAAAACTAAAACTAATTTTCACTATT	
100379 P	G	A	ATGACGTGGCAGACACTCTGTTATTCTTCCTTGTY	
100379 P	A	A	CGCGCCGAGGAACTCTGTTATTCTTCCTTGTTY	
100379 T	G	A	TAGGAACAAGGAAGAATAACAGAGTCATAGTGAAAATTAGTTTTAGTTTTAATTTTTGCAAAGCACAGACTTAGCAGGGTTACGAT	
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100379 IS	[GA]		ATCGTAACCCTGCTAAGTCTGTGCTTTGCAAAAATTAAAACTAAAACTAATTTTCACTATJGAJACTCTGTTATTCTTCCTTGTTCTTAGGCCACAGGTGGGTGAGAAAAT TTCGGTTAAGAGT	
100380 I		A	GGTGGCCGTCCTCTACTGCTTCCTCAAA	
100380 P	C	A	ATGACGTGGCAGACCGGGCAGGTGAGTAGY	
100380 P	T	A	CGCGCCGAGGTGGGCAGGTGAGTAGTY	
100380 T	C	A	CAAGACTACTCACCTCCCCGTTGAGGAAGCAGTAGAGGACAGCCACCAC	
100380 T	T	A	CAAGACTACTCACCTCCCCATTGAGGAAGCAGTAGAGGACAGCCACCAC	
100380 IS	[CT]		CCTGCTACCTCCTCTTCTCTGGCAGGGCACTGGTGGTGGCCGTCCTCTACTGCTTCCTCAAJCTJGGGGAGGTGAGTAGTCTTGGGTCACCCAGGTACCCAGGAGAAGCTCCTA GCCATTGGTTTC	
100384 I		S	GCTGAGTGCAGGAGTGGGCTGCTCTCT	
100384 P	C	S	ATGACGTGGCAGACGCCTCTTGGAAGCTGY	
100384 P	T	S	CGCGCCGAGGACCTCTTGGAAGCTGY	
100384 T	C	S	GTCTGCAGCTTCCAAGAGGCAAGAGCAGCCCAGTCCTGCACTCAGCCA	
100384 T	T	S	GTCTGCAGCTTCCAAGAGGTCAAGAGCAGCCCAGTCCTGCACTCAGCCA	
100384 IS	[CT]		TACCTTGTAGCCGTGTCACACCCCCTTCTGCGTTCAGCACACTCTGCAGCTTCCAAGAGGJCTJGAGAGCAGCCCAGTCCTGCACTCAGCCAGTGCAGGCACTGATGTCCAC ACTGGGCACCTG	
100388 I		S	CGCTTGGCCGCAGGACAGTCACTAGCTCTTACT	
100388 P	T	S	CGCGCCGAGGAAACTGAGGGCTCTACTTY	
100388 P	C	S	ATGACGTGGCAGACGAACTGAGGGCTCTACTY	
100388 T	T	S	AGAAAAGTAGAGCCCTCAGTTCGTAAGAGCTAGTGACTGTCTCCGGCCAAGCGCT	
100388 T	C	S	AGAAAAGTAGAGCCCTCAGTTCGTAAGAGCTAGTGACTGTCTCCGGCCAAGCGCT	
100388 IS	[TC]		TCCCAGGAAGACAGACATTTATATCCTACCTTTTCATTTCAGAAAAGTAGAGCCCTCAGTTJTCJGTAAGAGCTAGTGACTGTCTCCGGCCAAGCGCTGGGTTCTGCCCACT GAGTGAACACTGT	
100391 I		A	CCTGCTCTCGGCAAAGGTAAAGGATAAGCAGTTGTTCT	
100391 P	G	A	ATGACGTGGCAGACGTCCTTCAGAATAAATTTAGAGAY	
100391 P	A	A	CGCGCCGAGGATCCCTTCAGAATAAATTTAGAGAY	
100391 T	G	A	TTTTTCTCTAAATTTATTCTGAAGGGACGAACAACTGCTTATCCTTTACCTTTGCCAGAGCAGGCA	
100391 T	A	A	TTTTTCTCTAAATTTATTCTGAAGGGATGAACAACTGCTTATCCTTTACCTTTGCCAGAGCAGGCA	
100391 IS	[GA]		CCCACCTCTGGGGGGCCGCCAGCTGCCTGCTCTGGCAAAGGTAAAGGATAAGCAGTTGTTCJGAJTCCCTTCAGAATAAATTTAGAGAAAAAAATAGTCTTTCCATACATTT CAGAGAGAGAAAA	
100394 I		S	CATGGATGCCTCTACAAAACAAAATGATATGTGTAAAAAAATTTCAGACCATGCT	
100394 P	T	S	CGCGCCGAGGAATACCTAAAGATATCTTAGTCTTTTCY	

FIGURE 129C







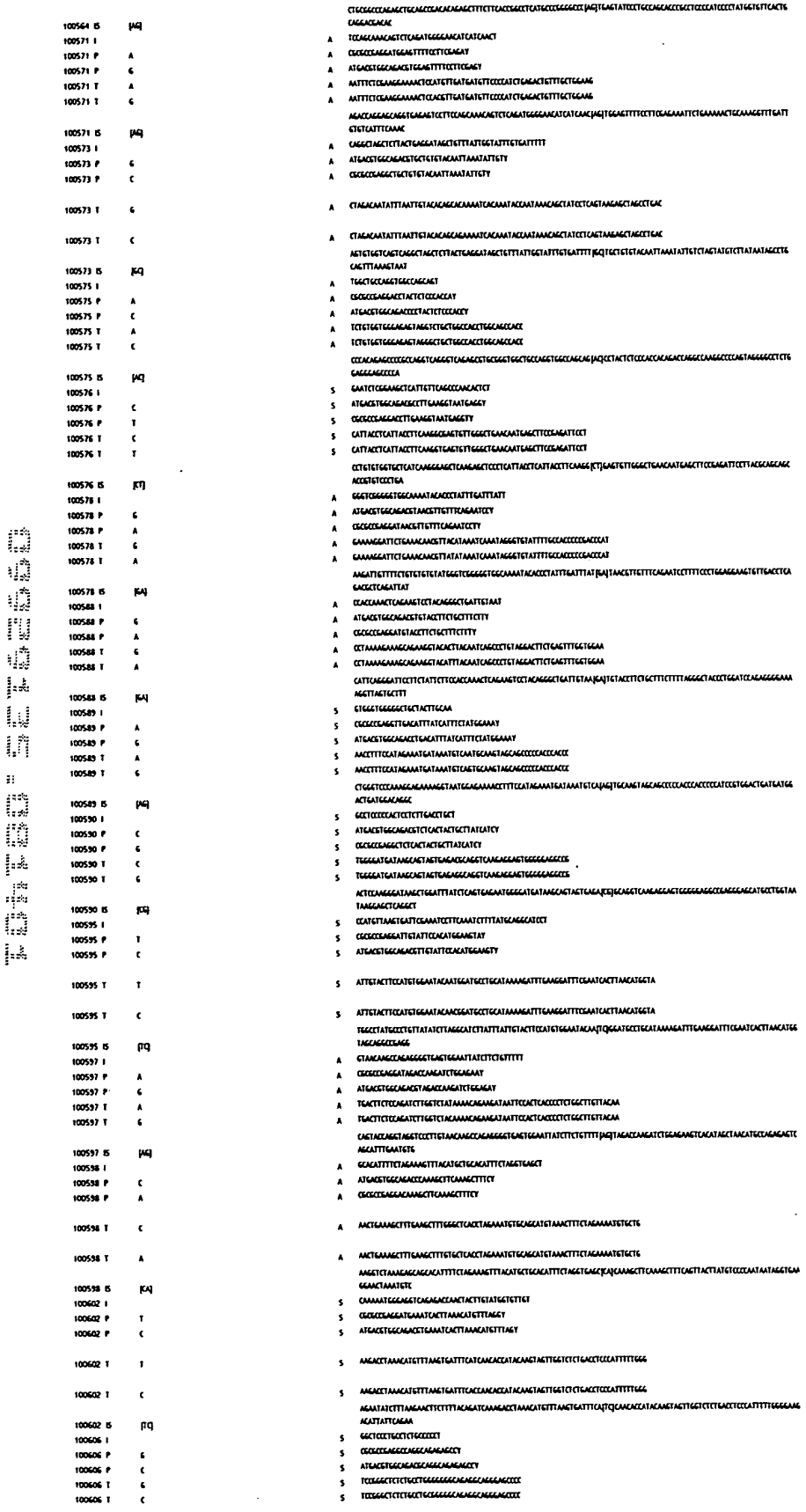
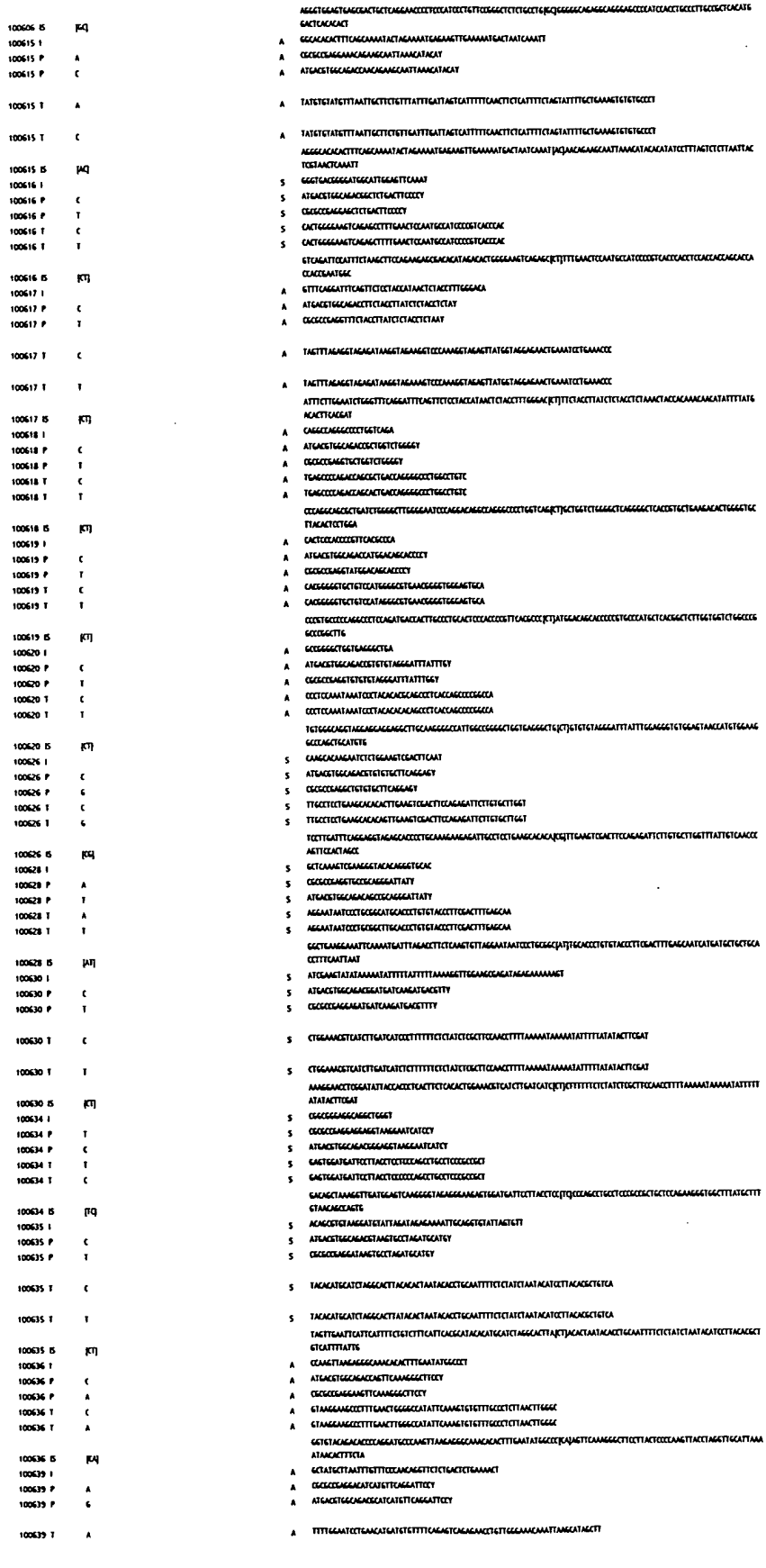


FIGURE 129C



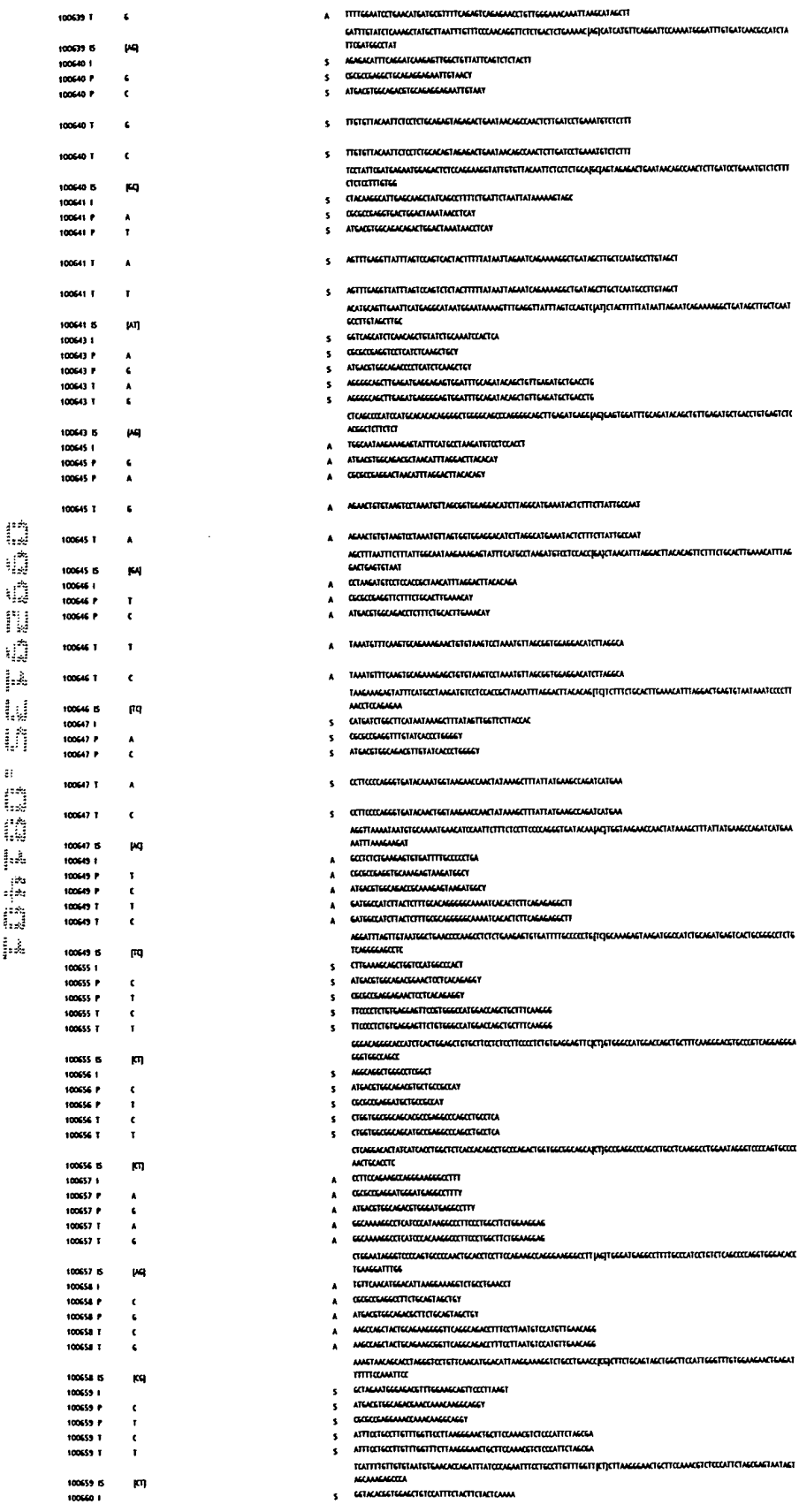
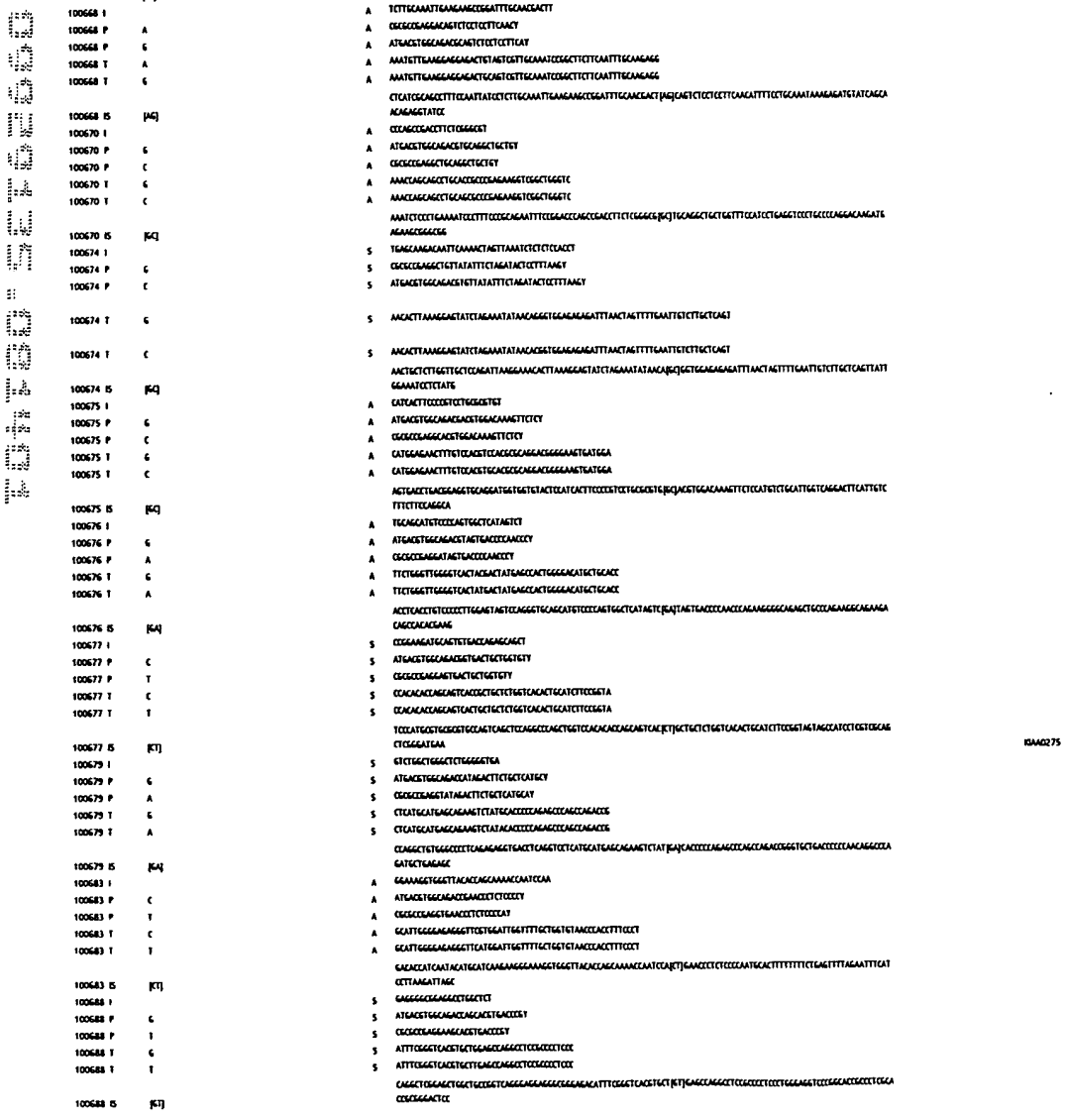
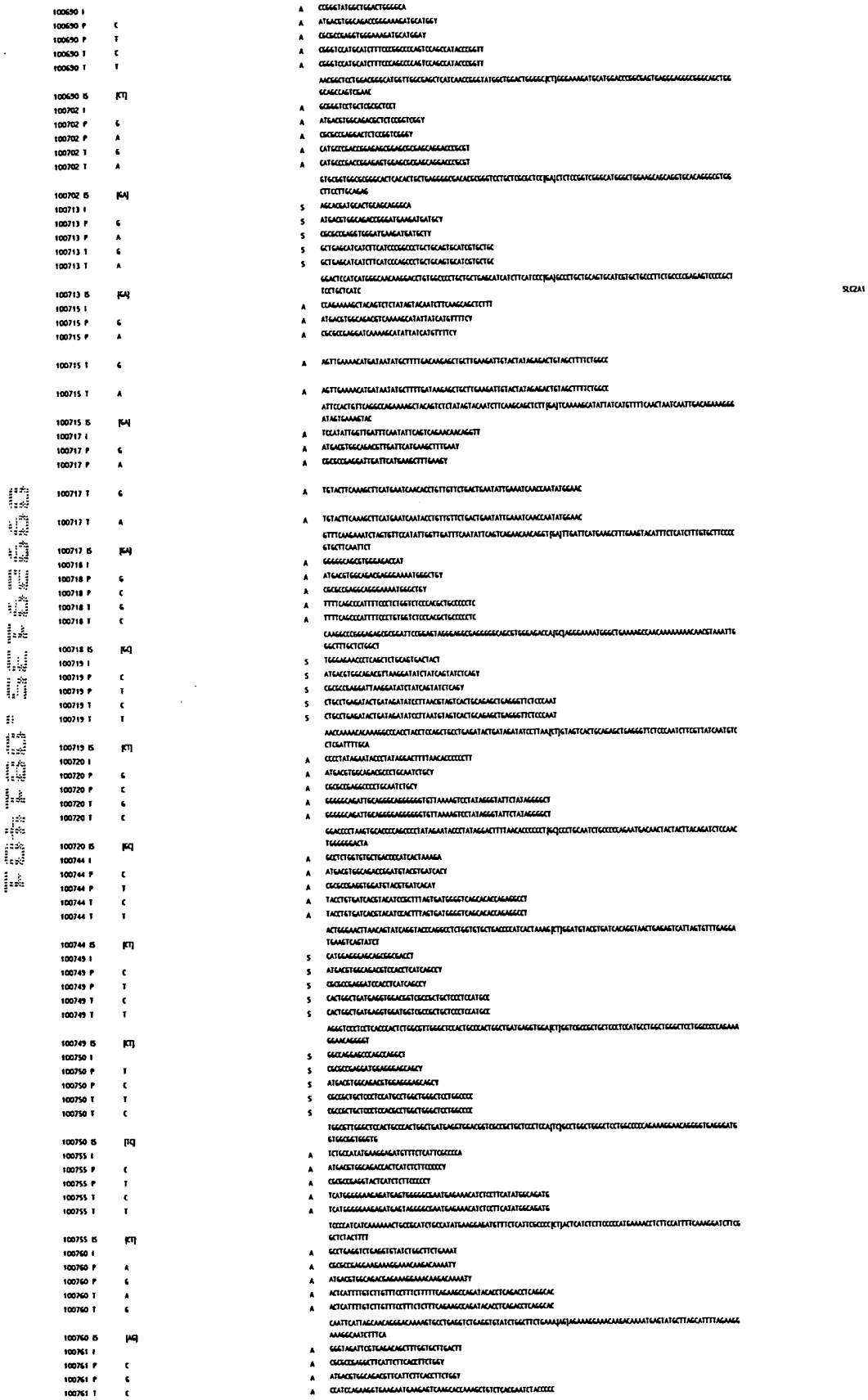
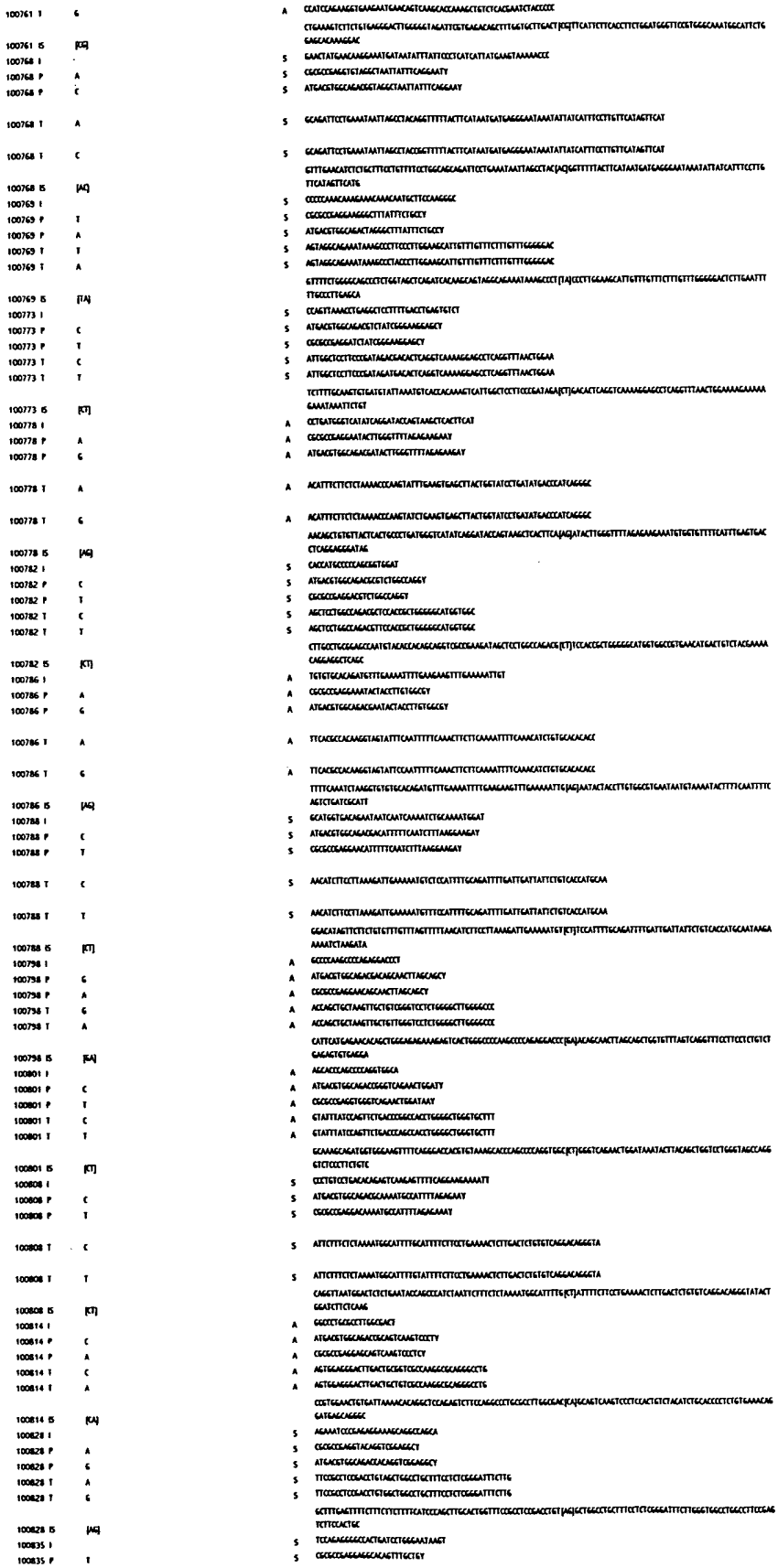


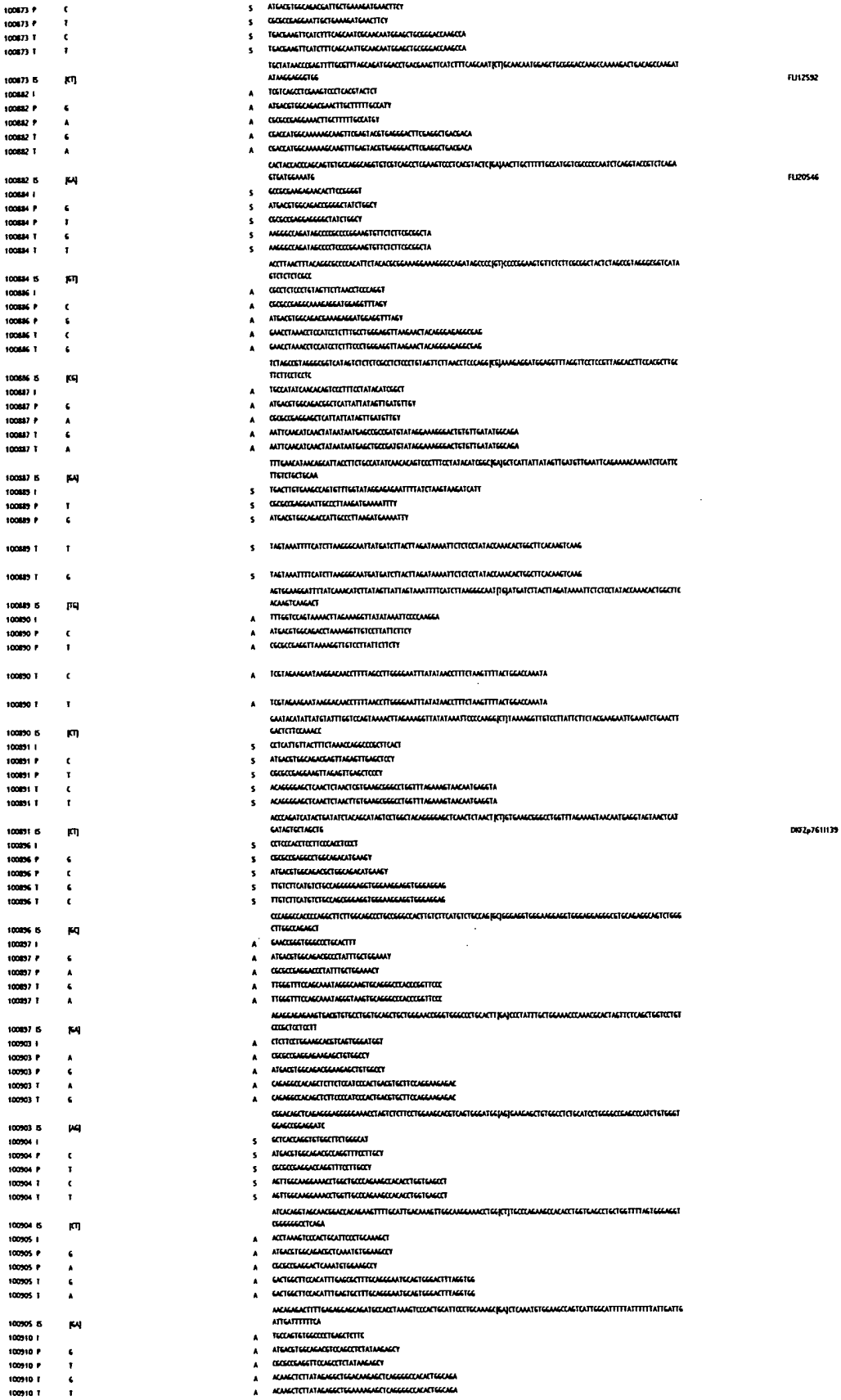
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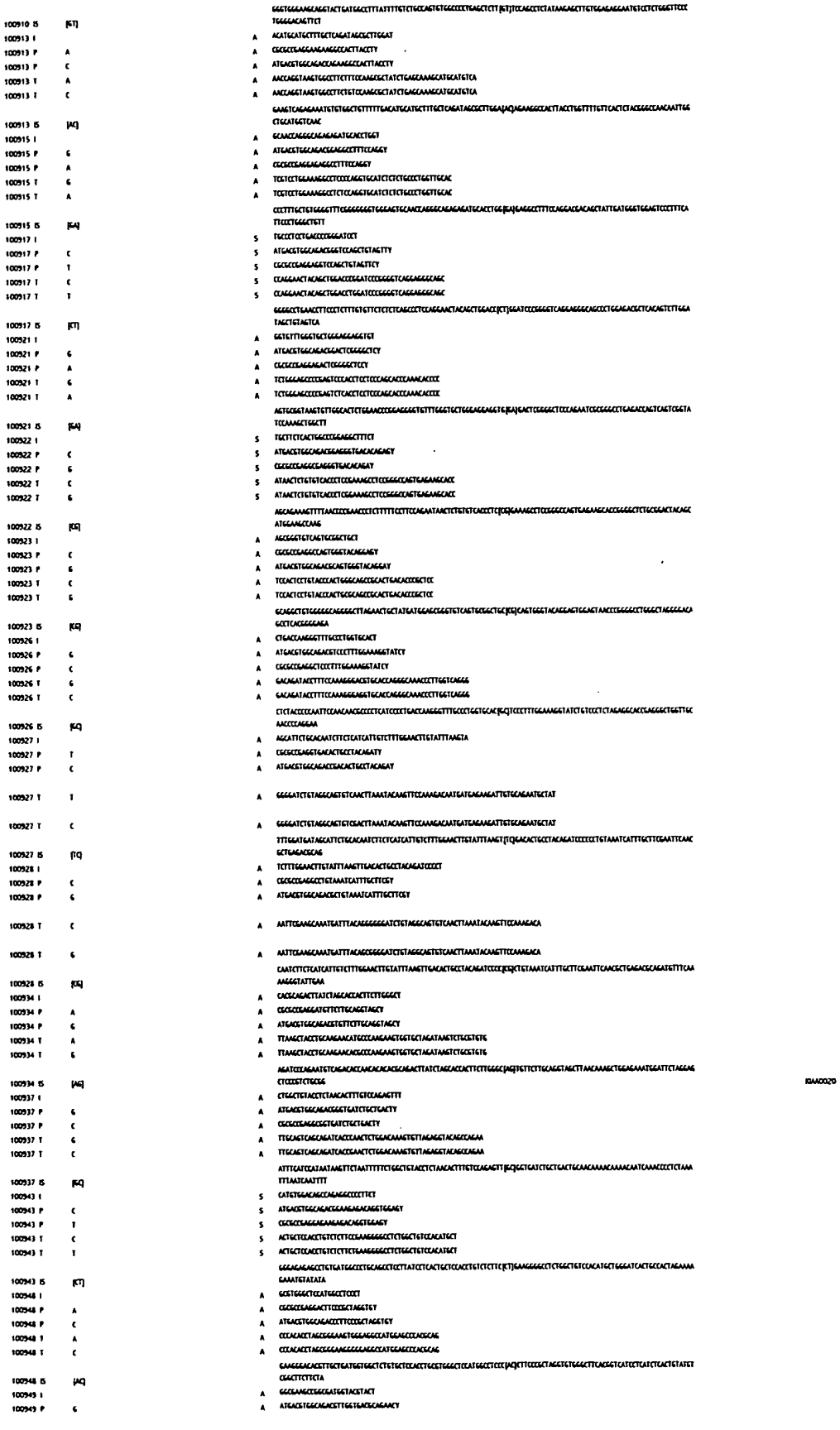


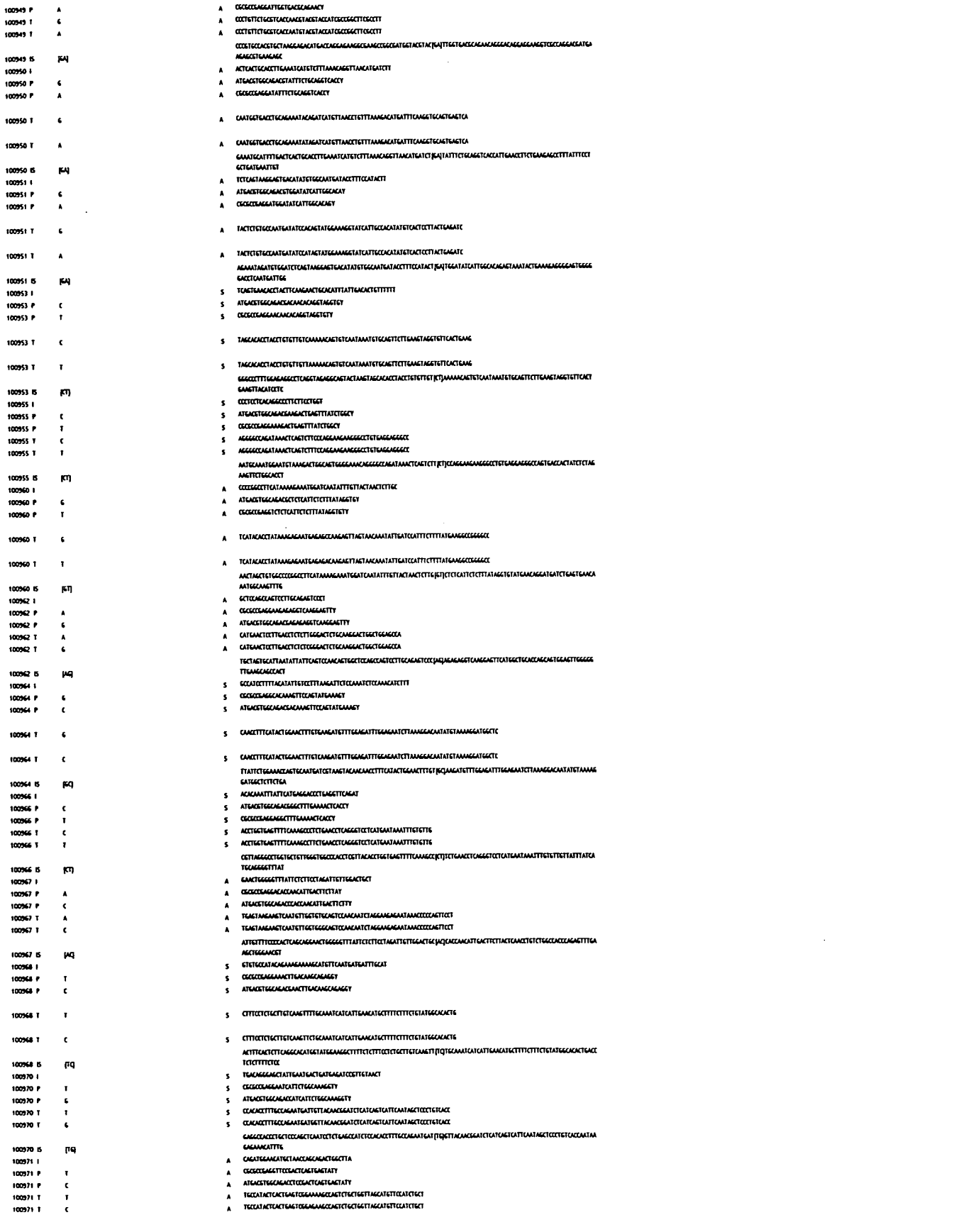












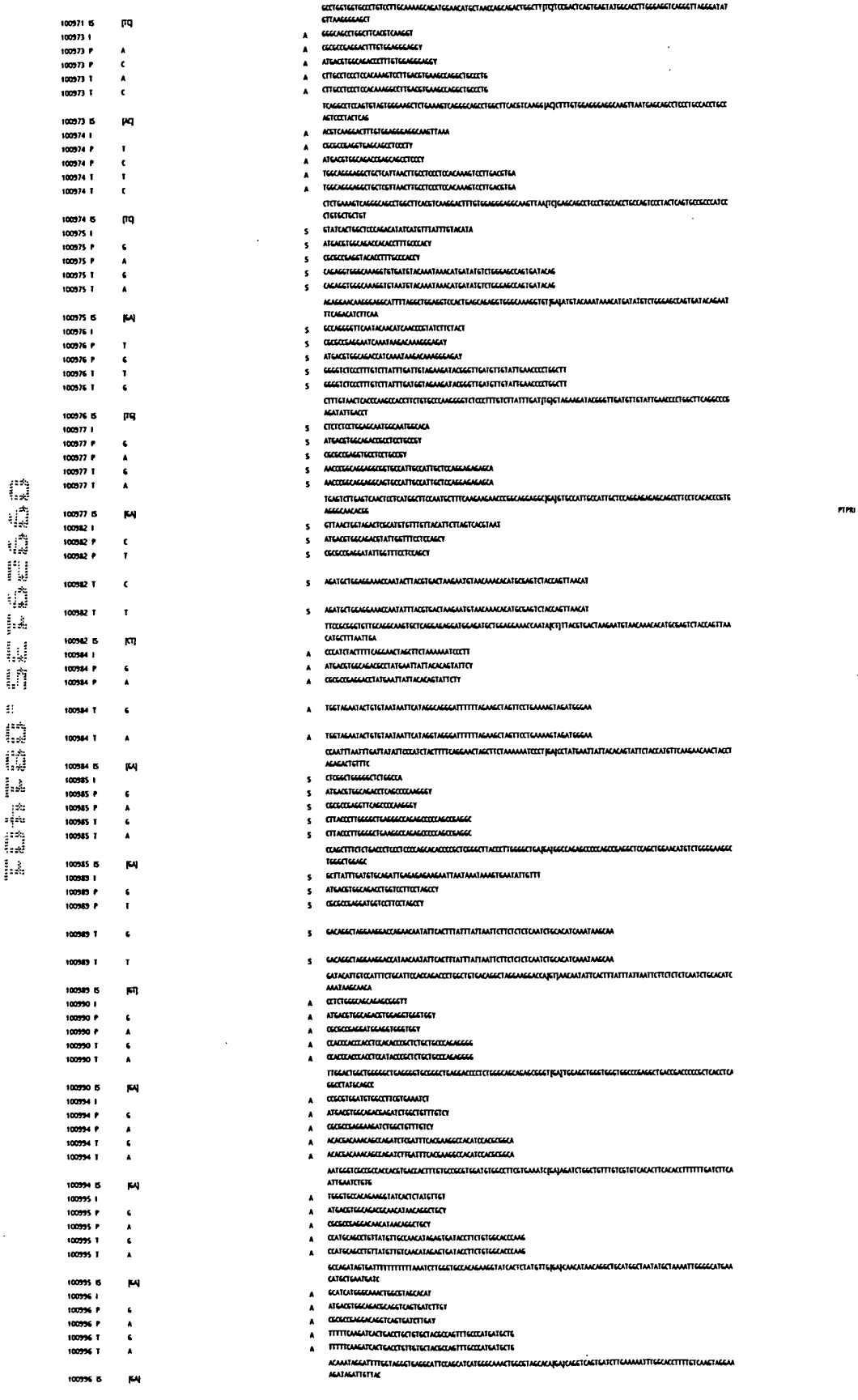




FIGURE 129C

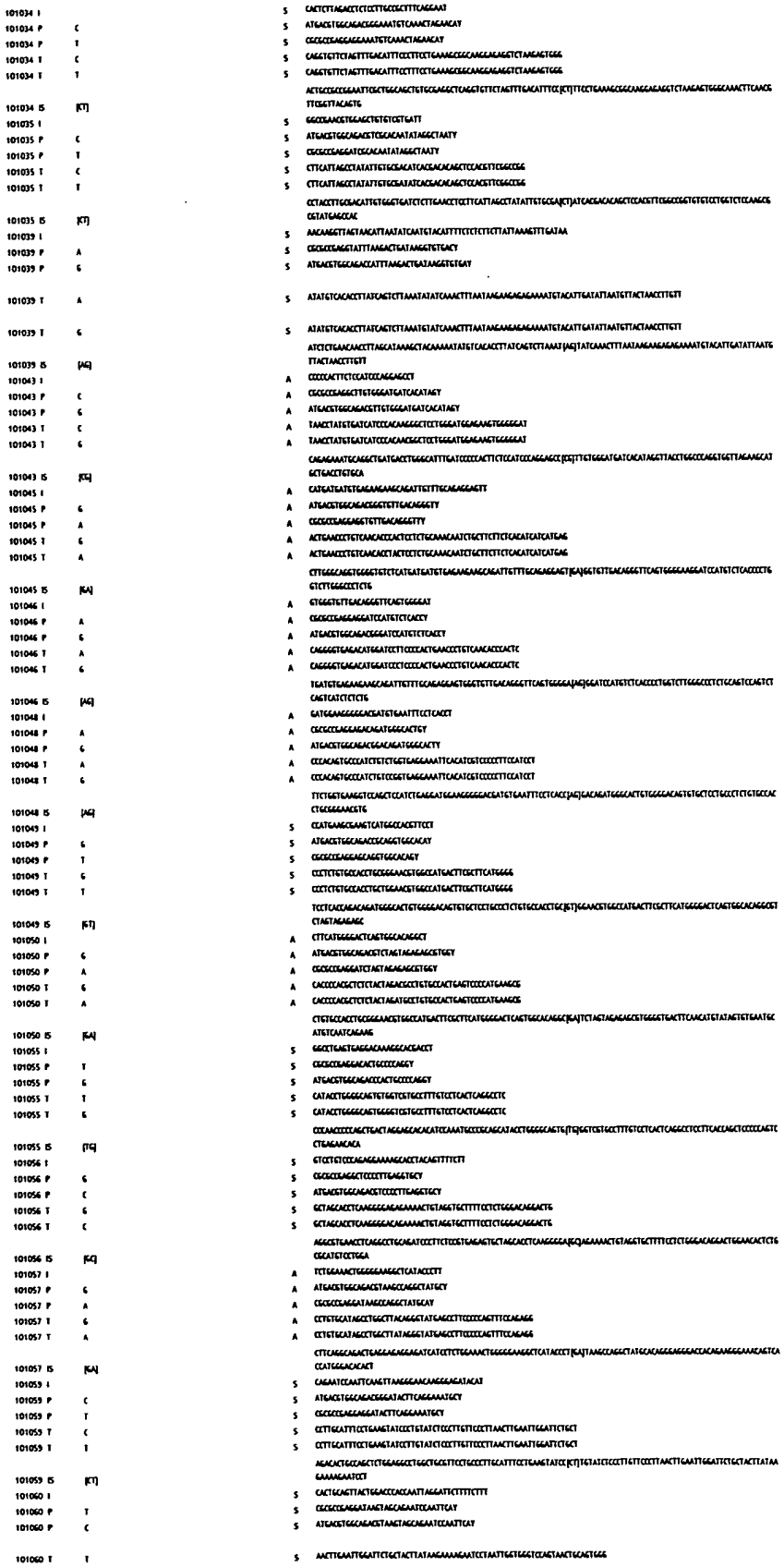
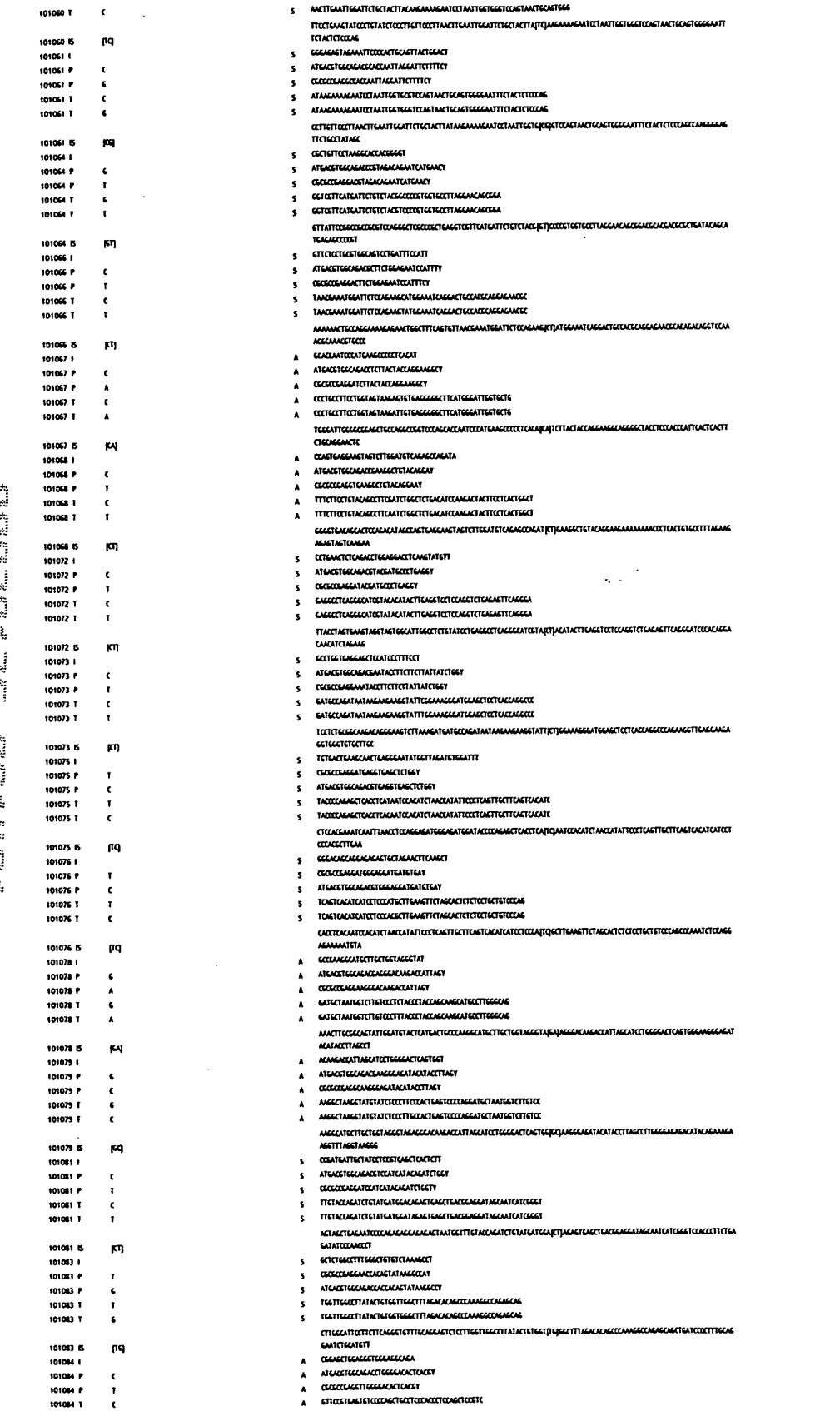
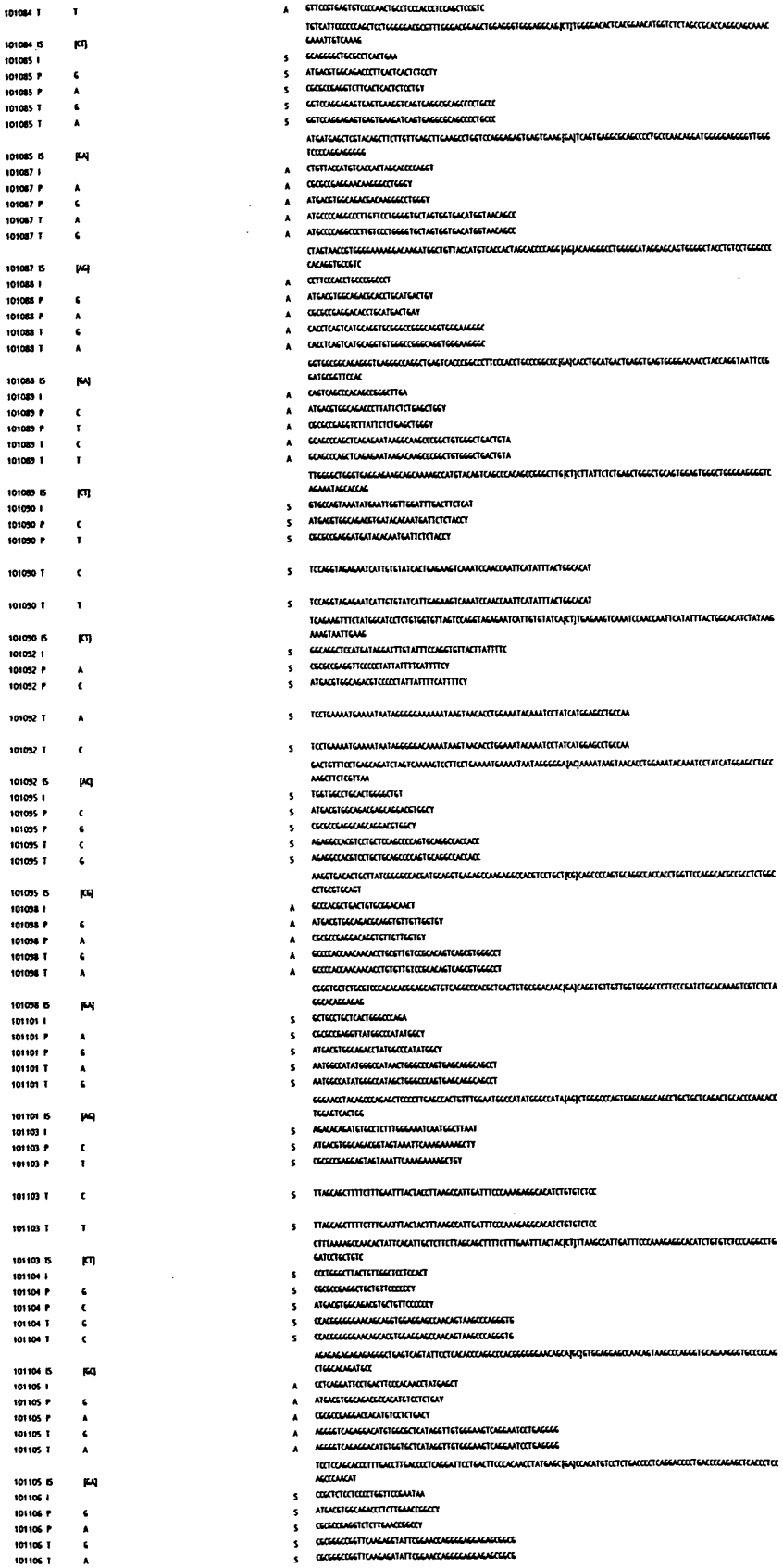


FIGURE 129C





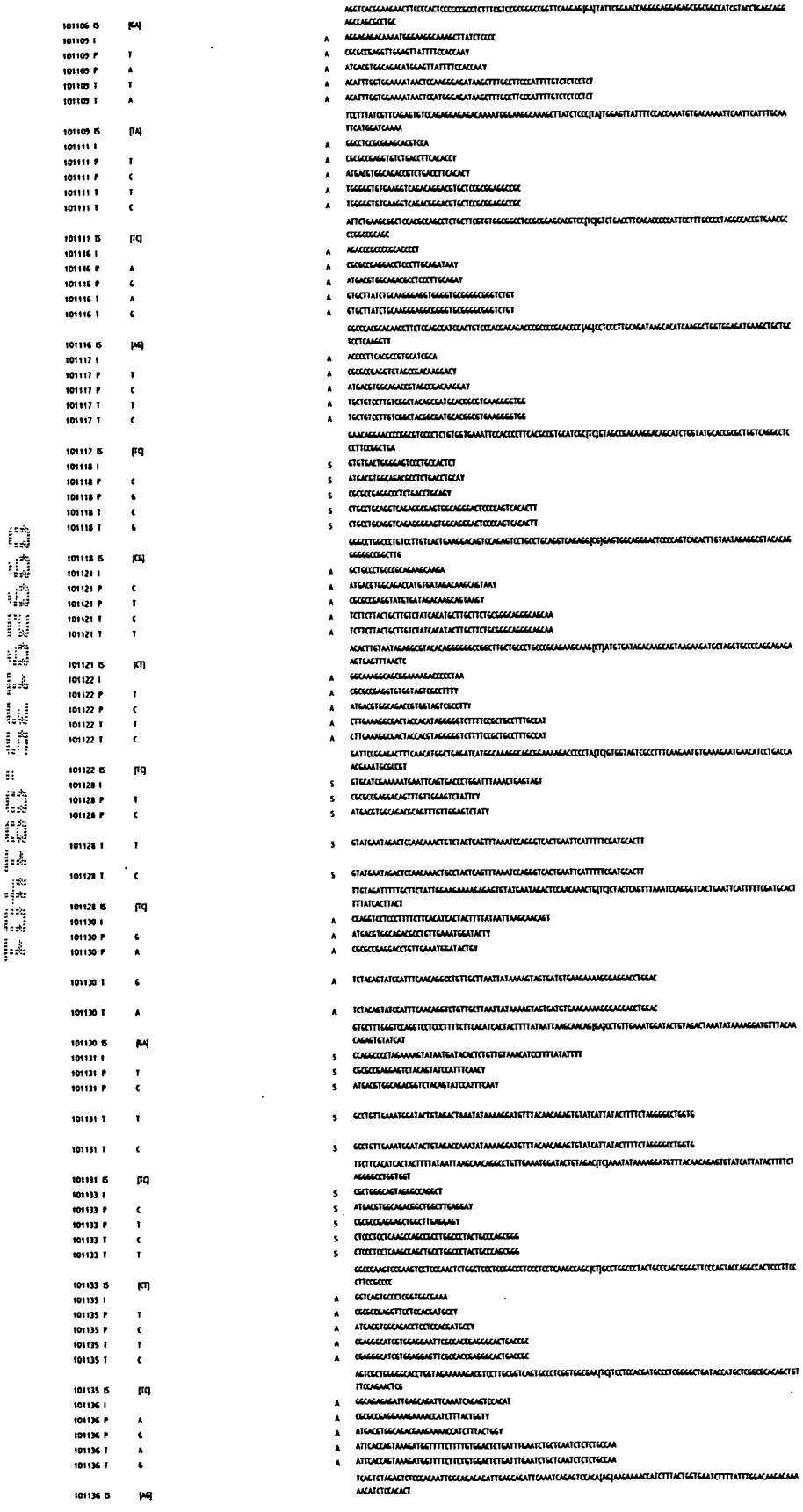


FIGURE 129C

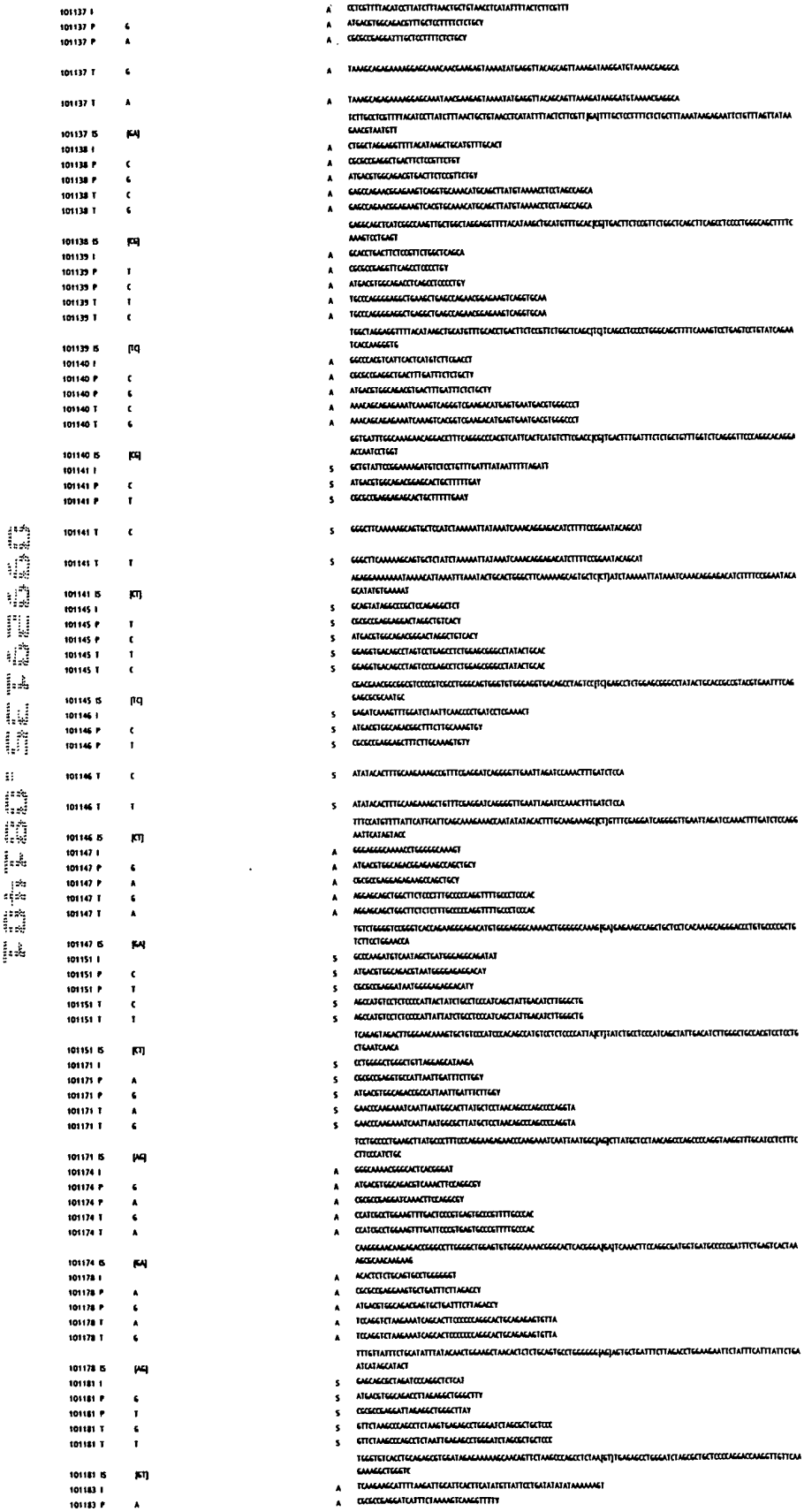
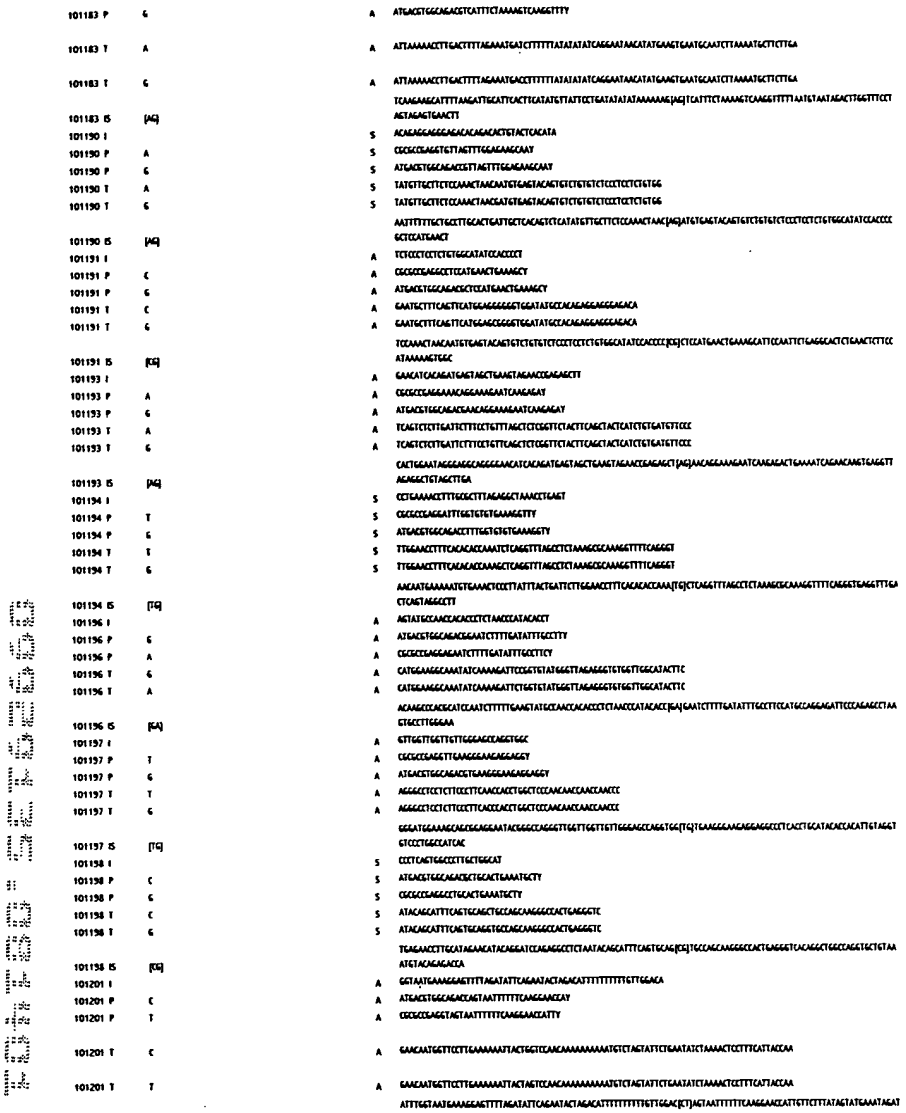


FIGURE 129C



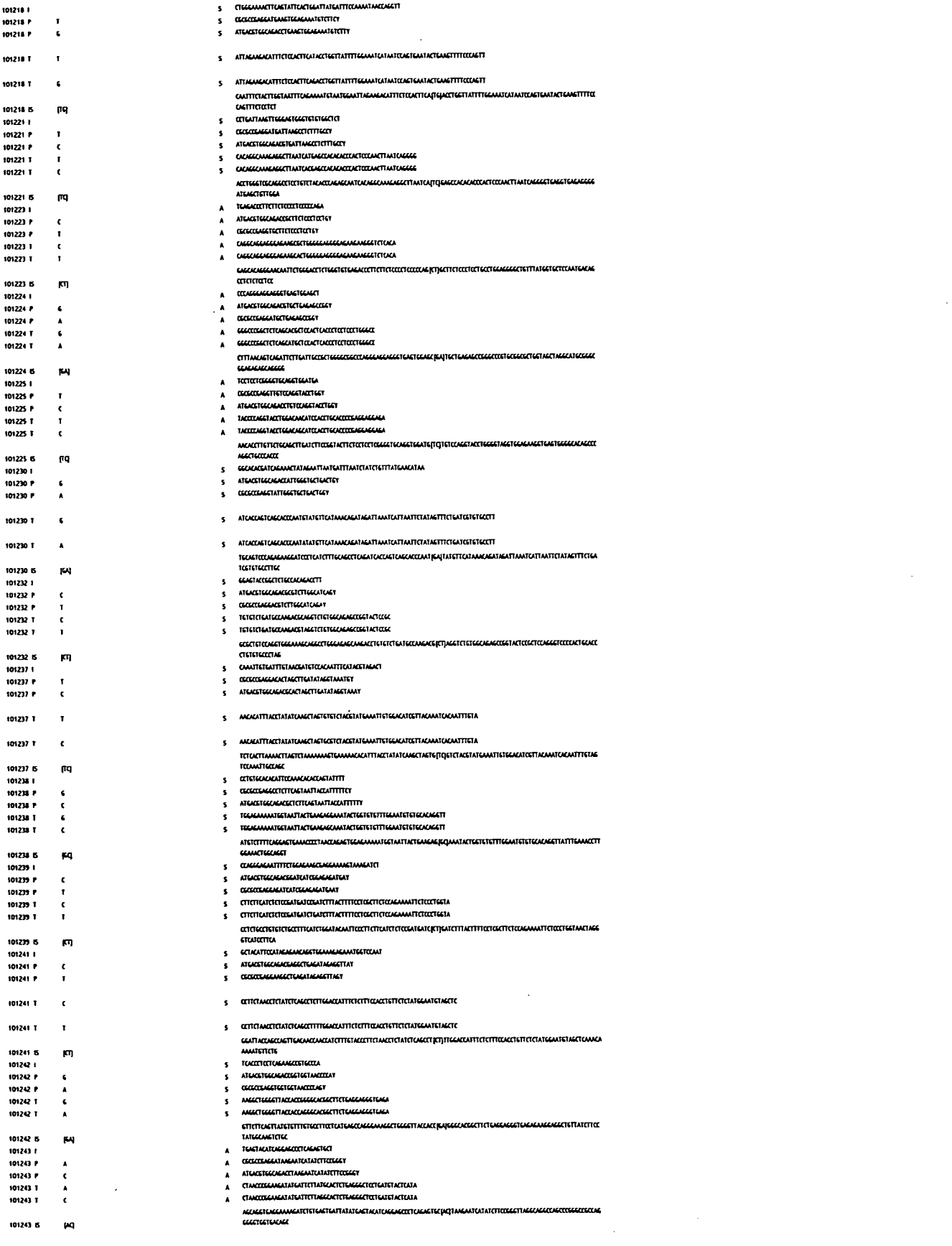


FIGURE 129C

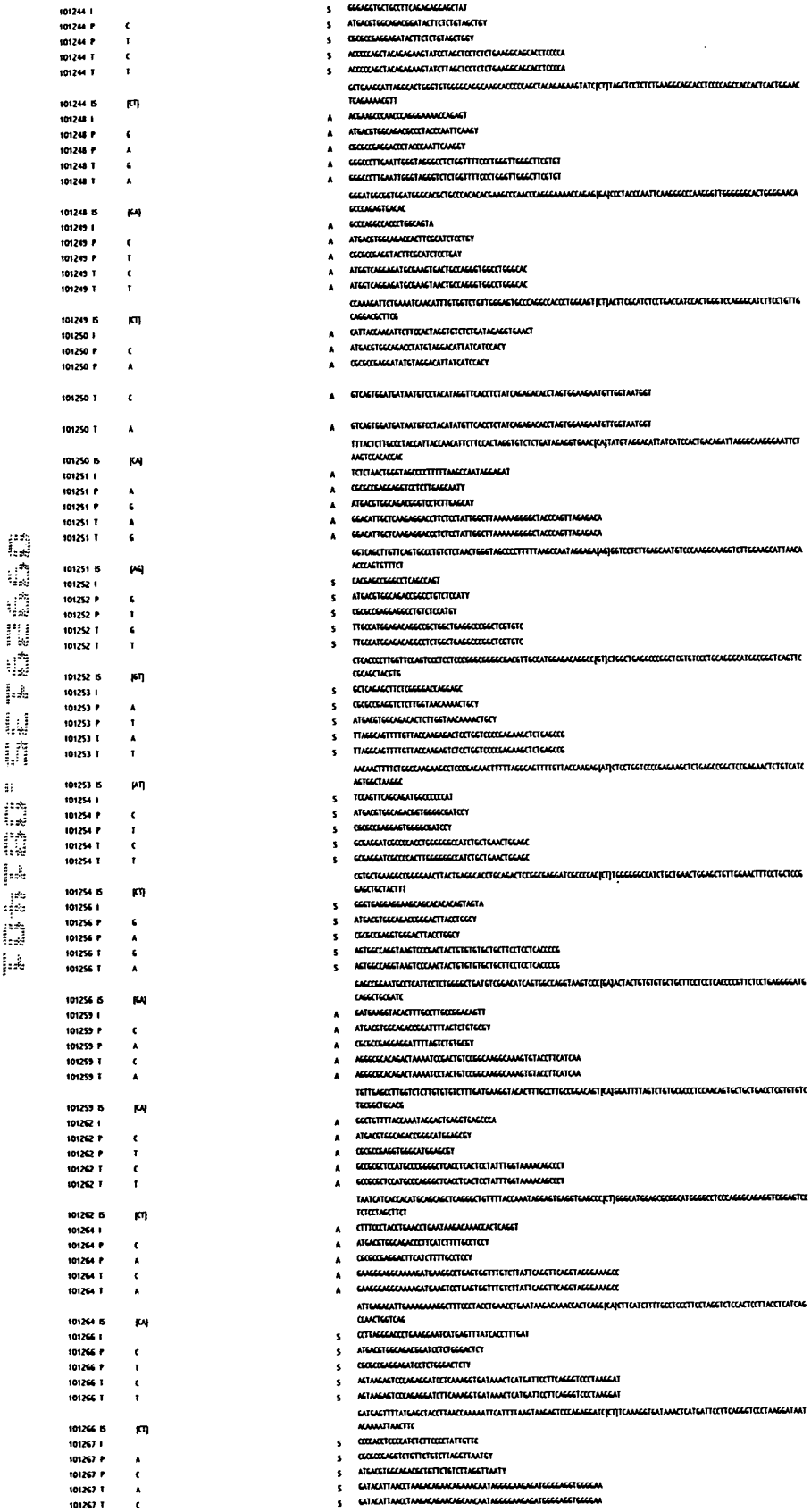


FIGURE 129C

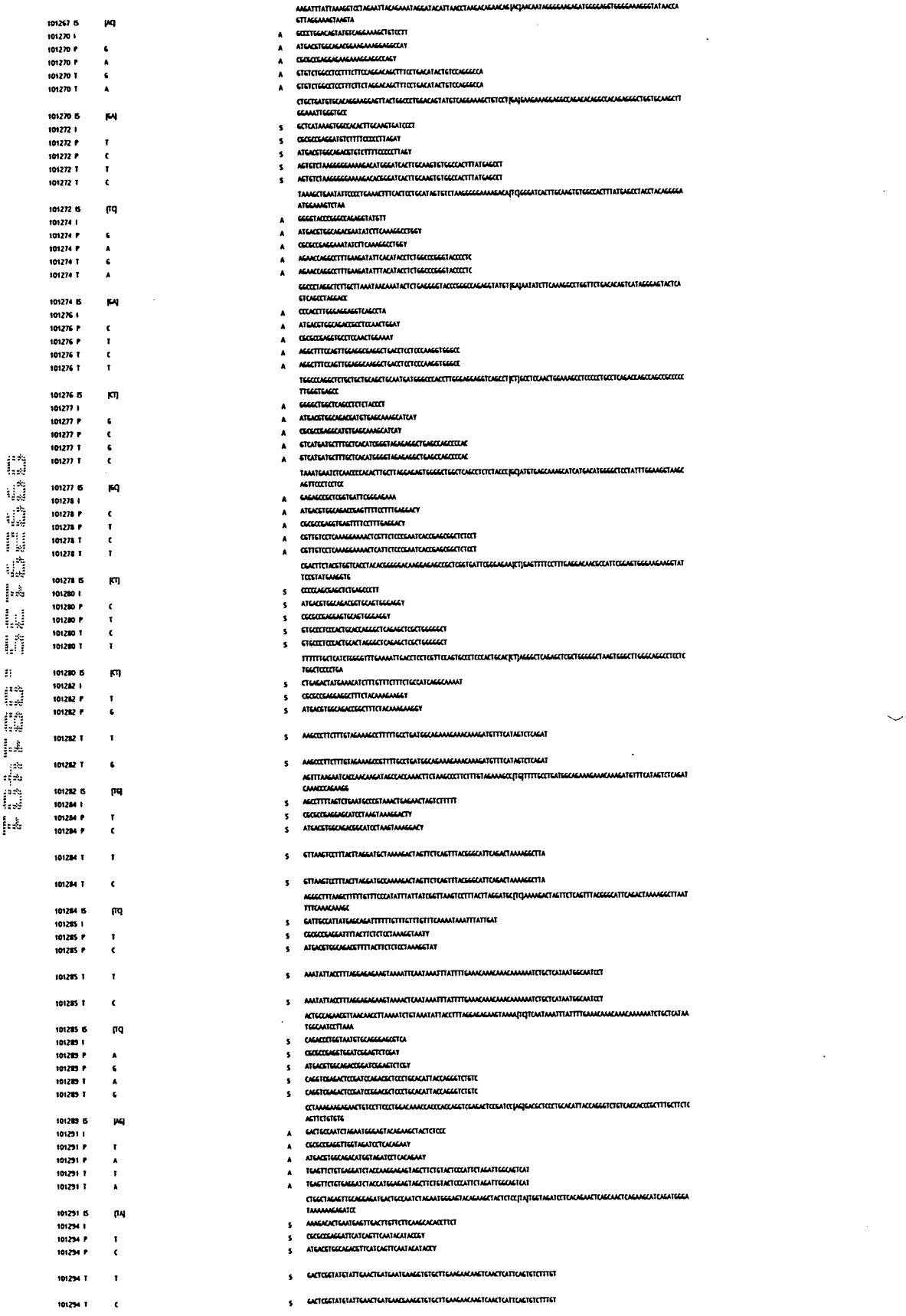


FIGURE 129C

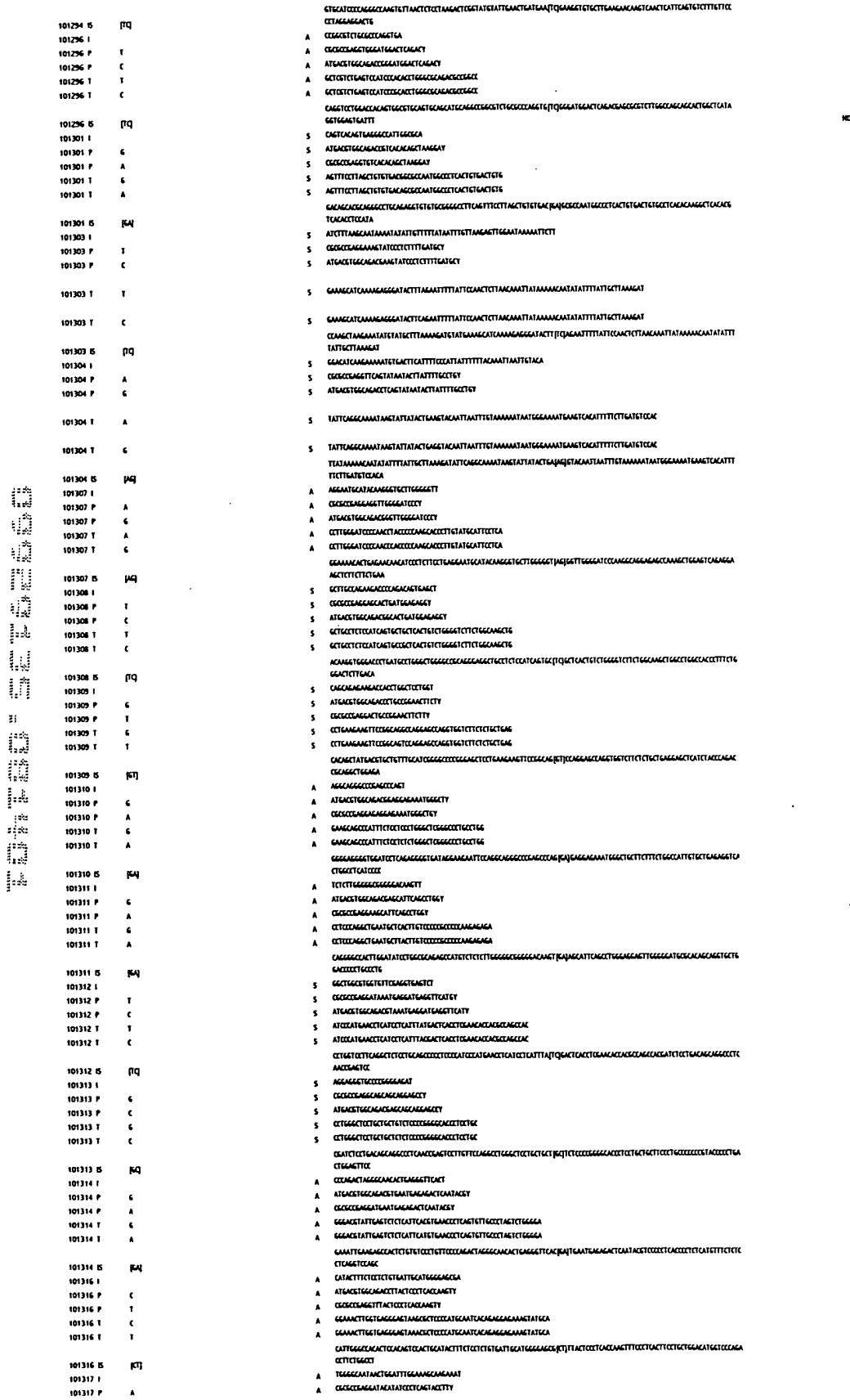
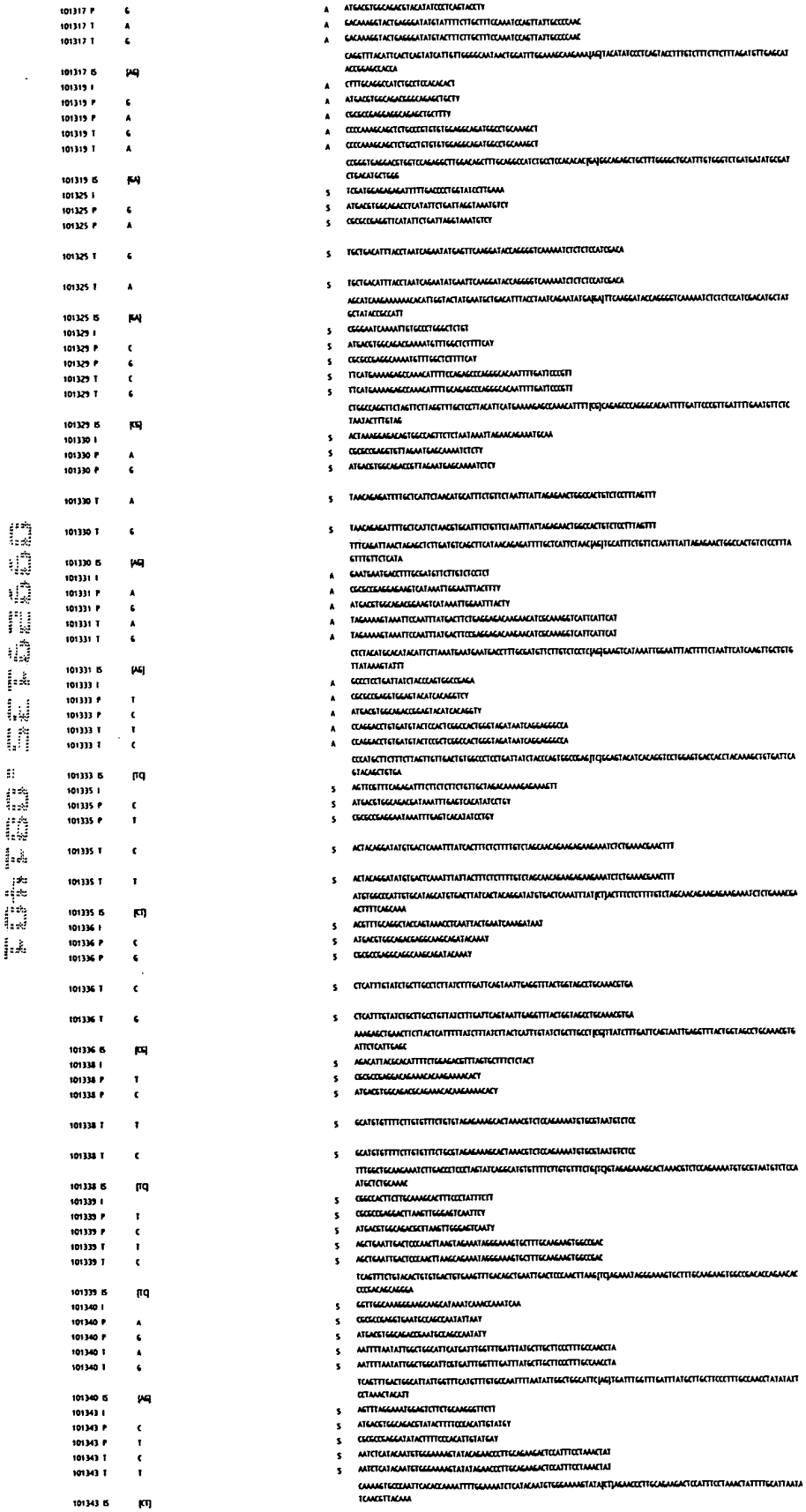
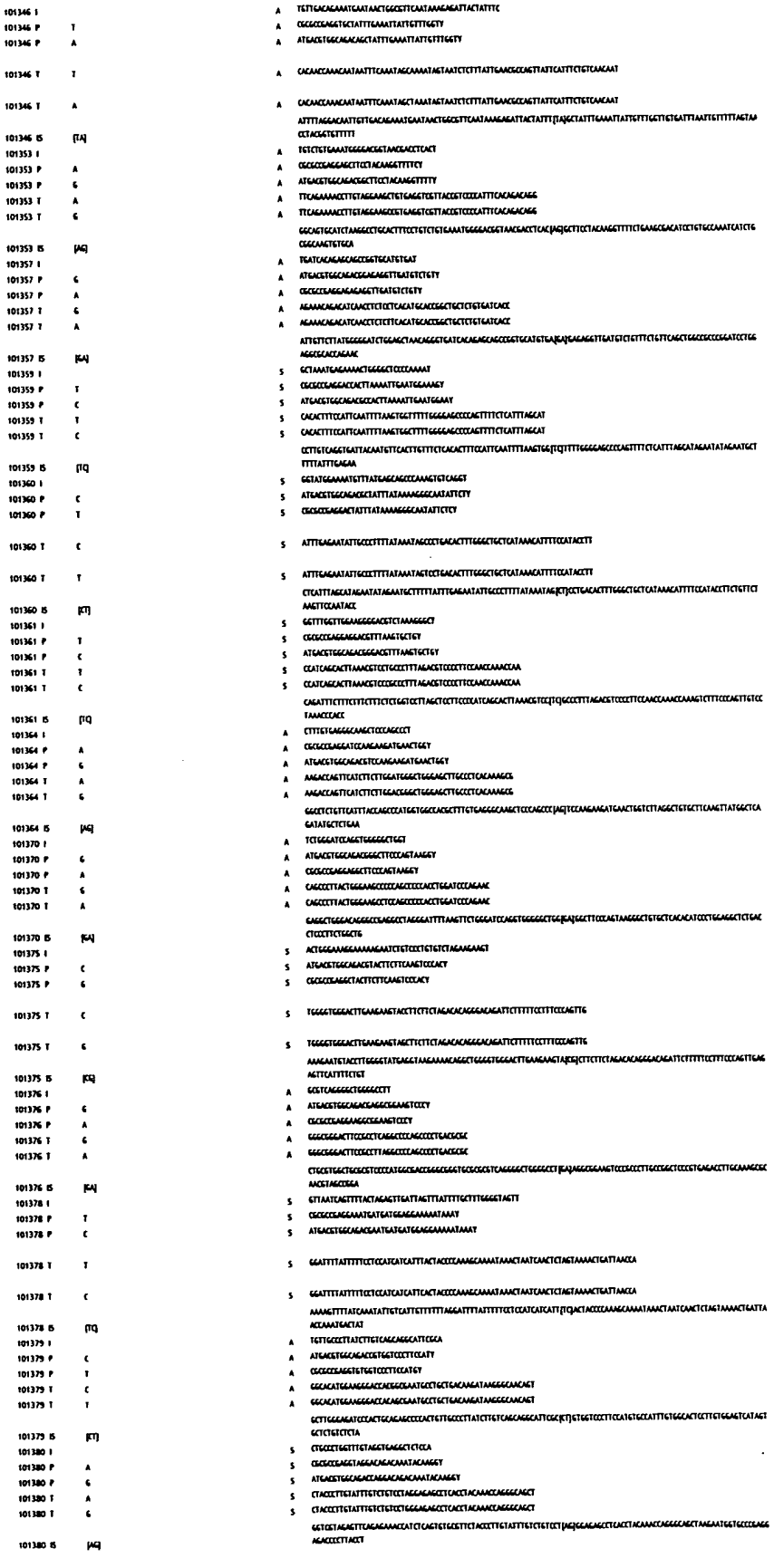
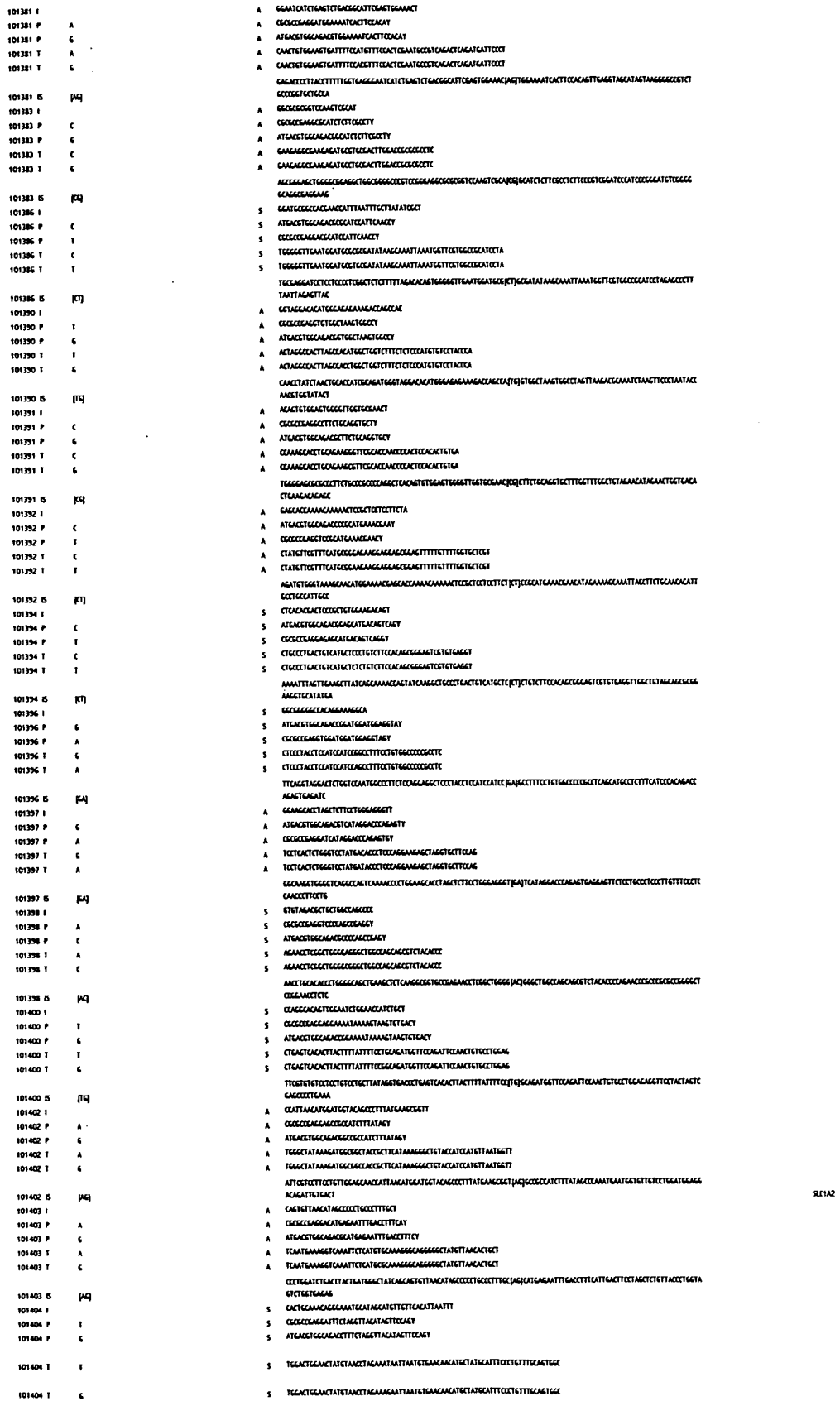


FIGURE 129C







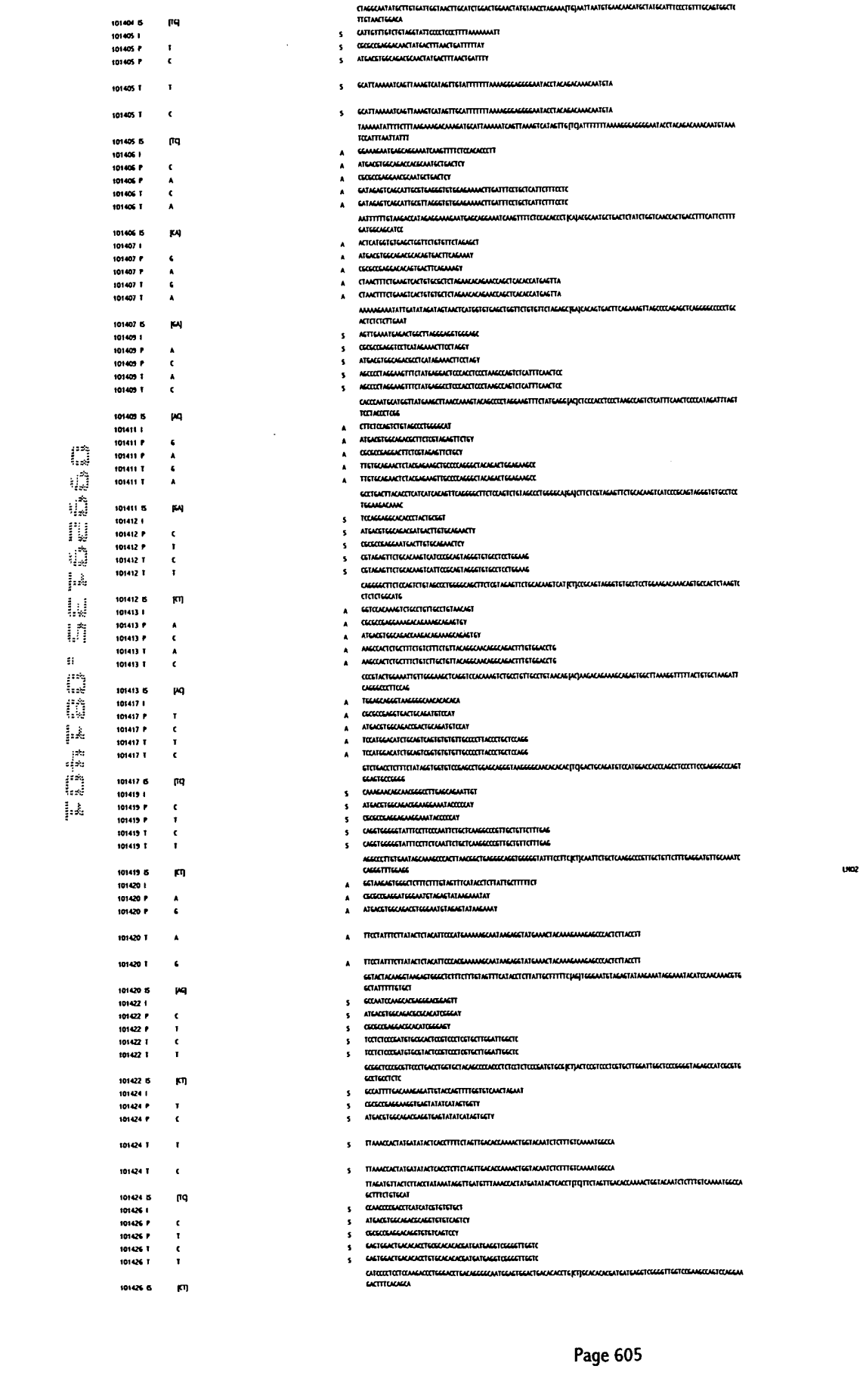
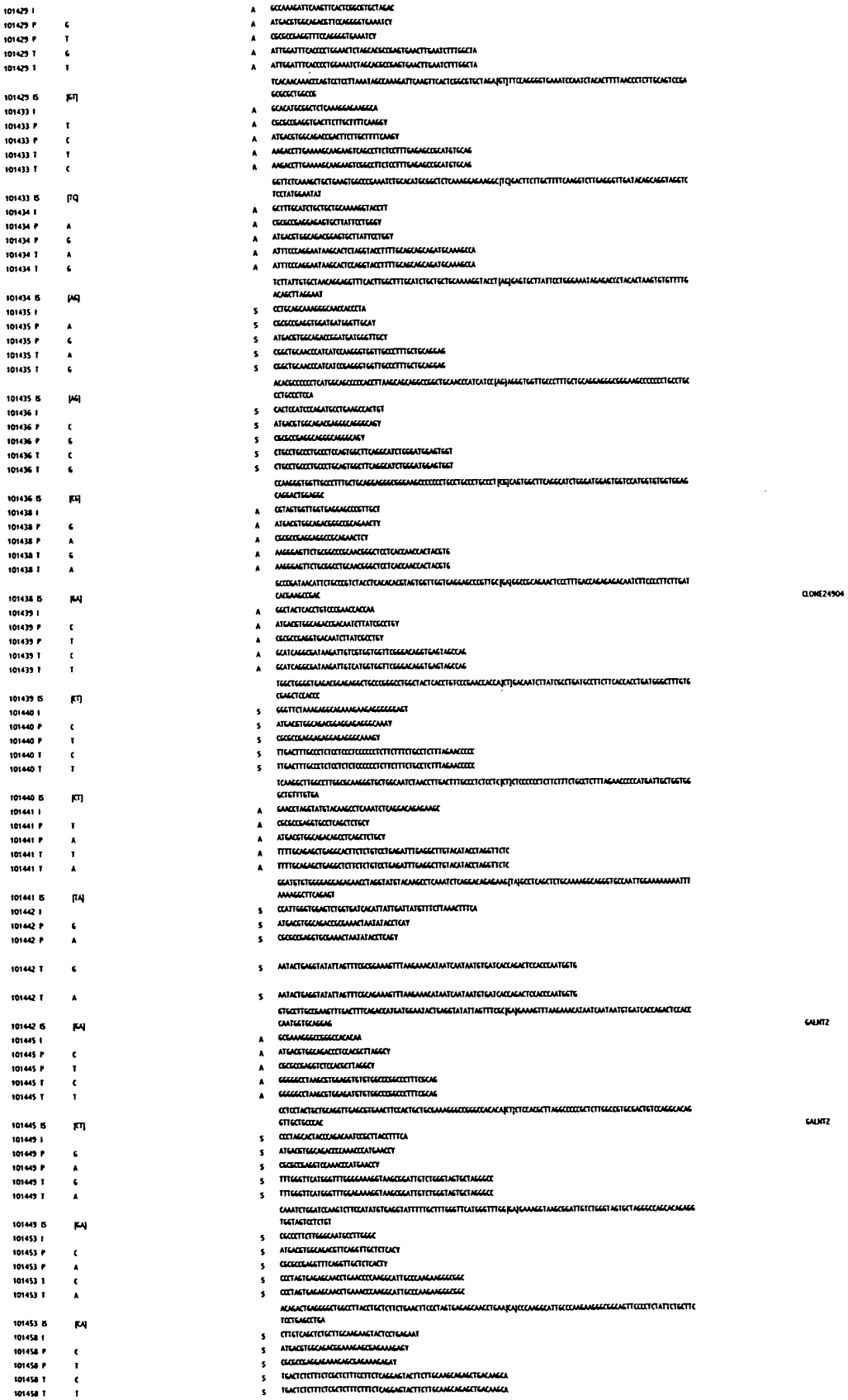
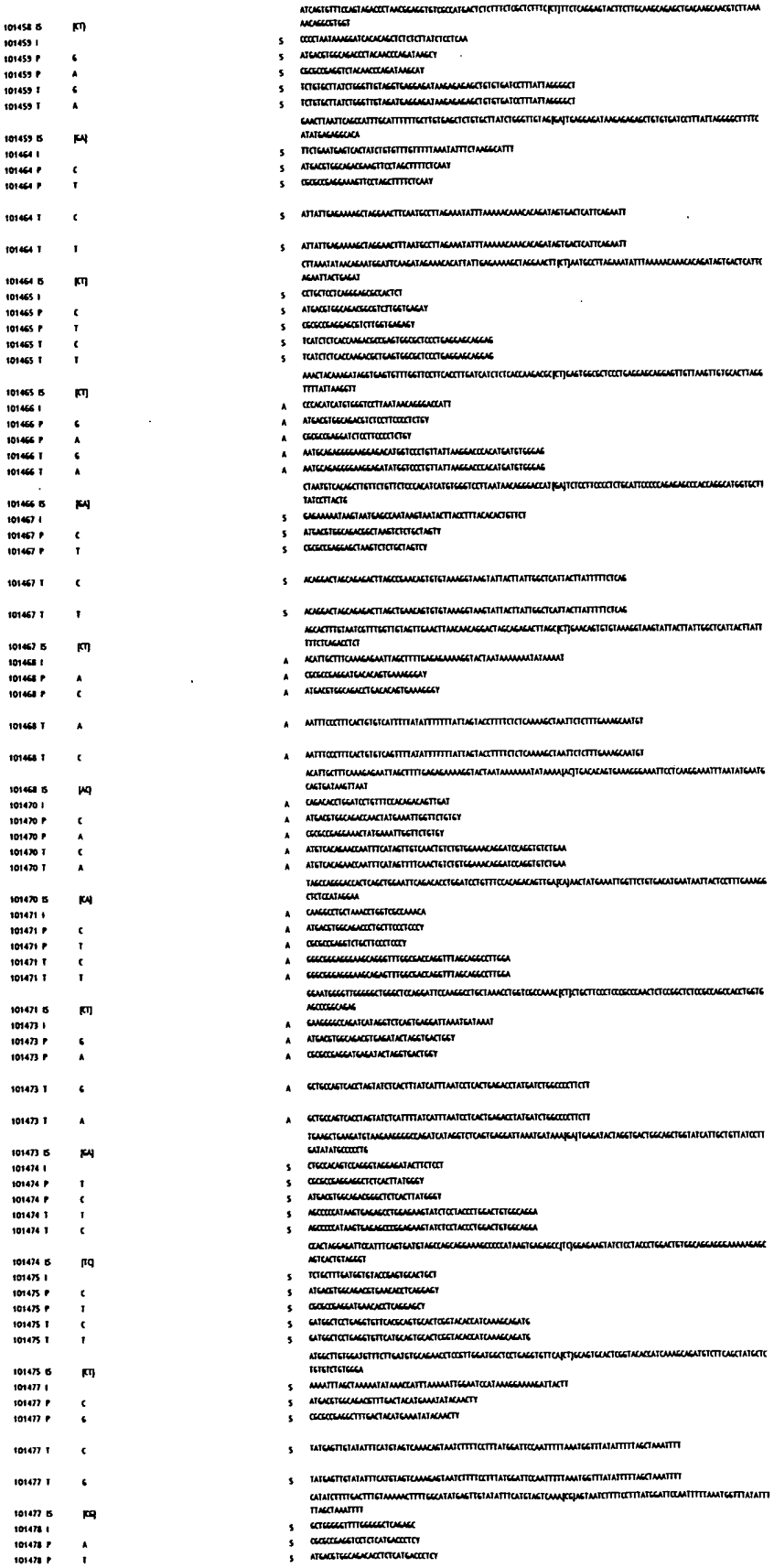
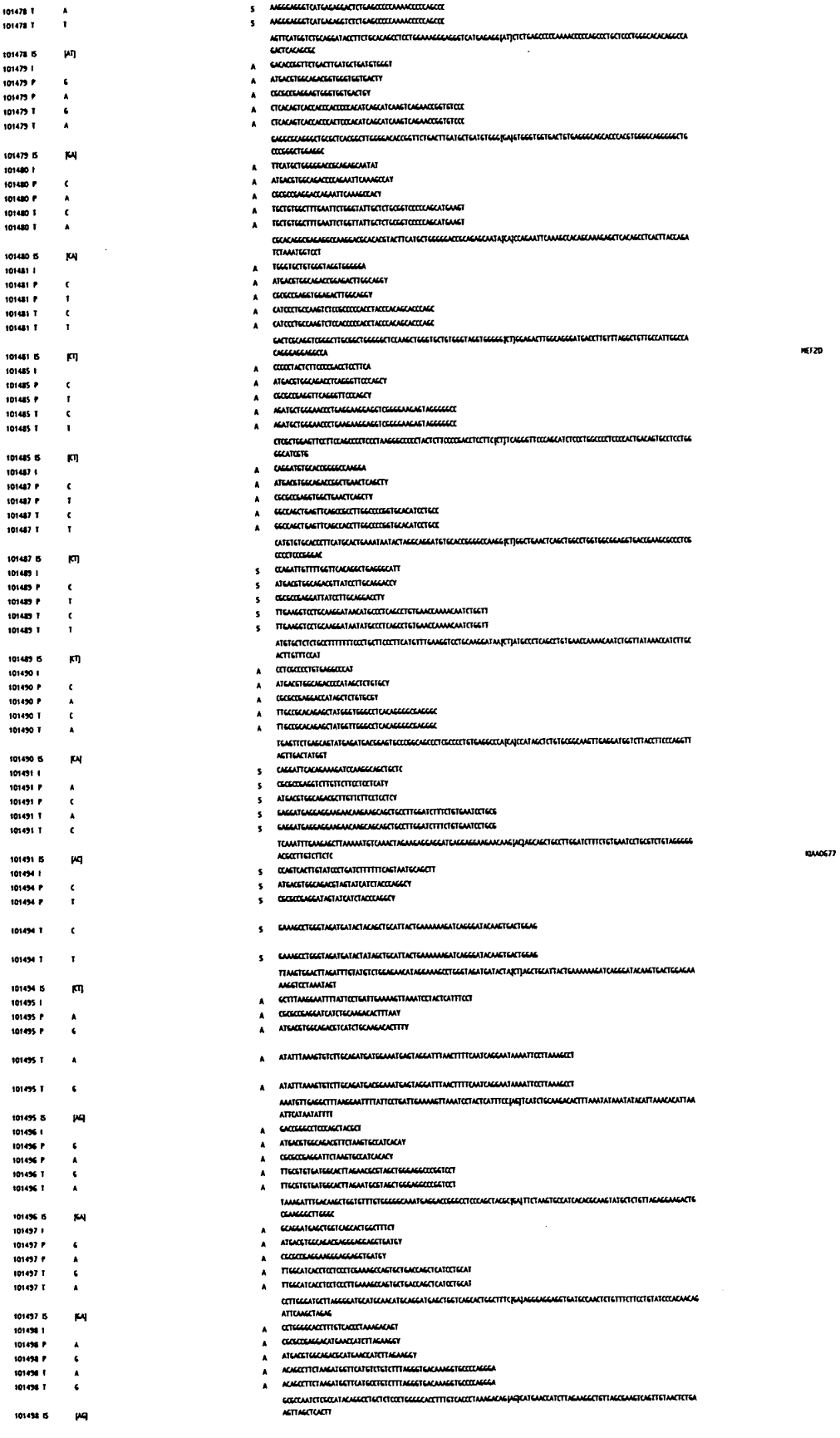


FIGURE 129C

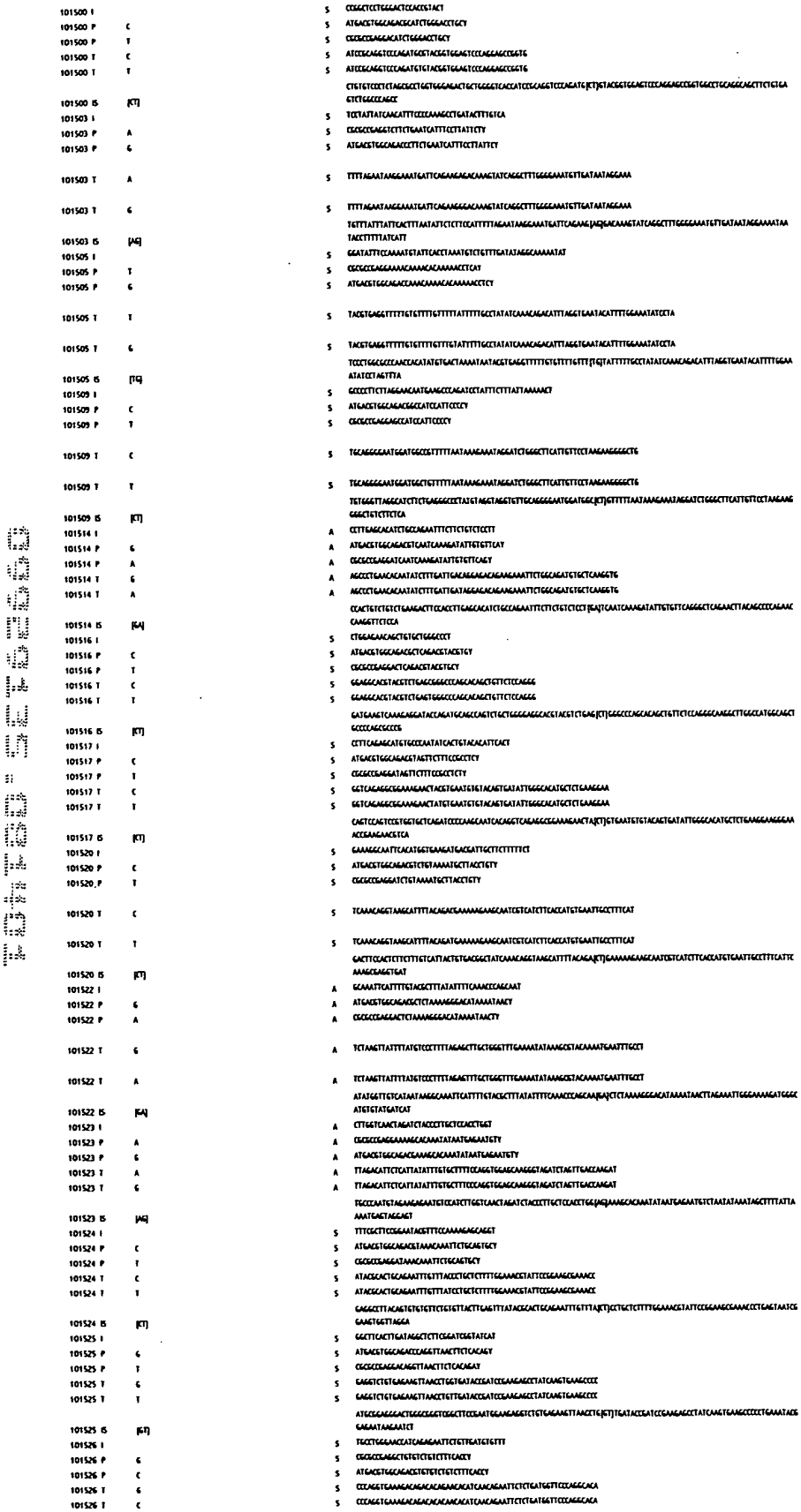


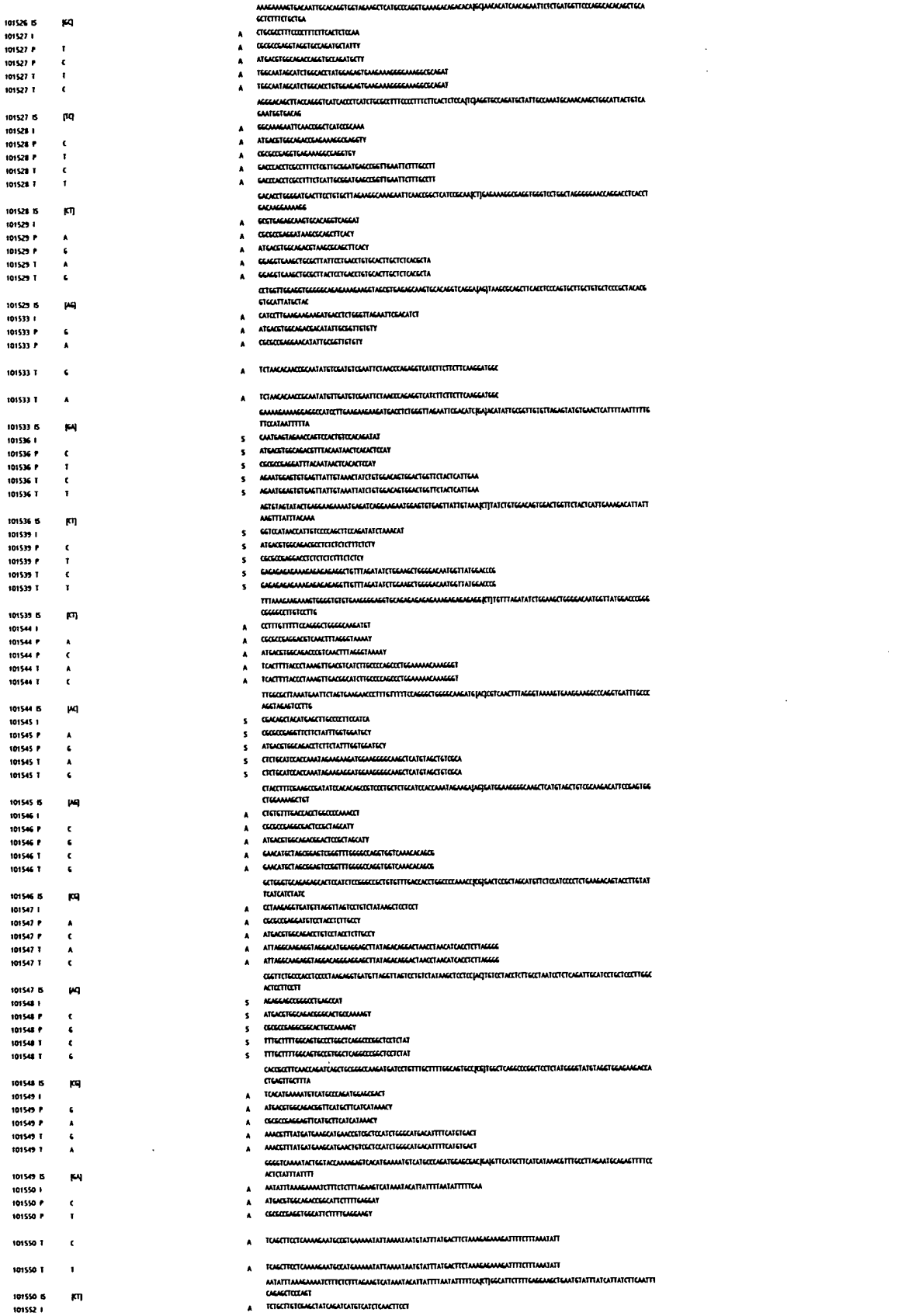


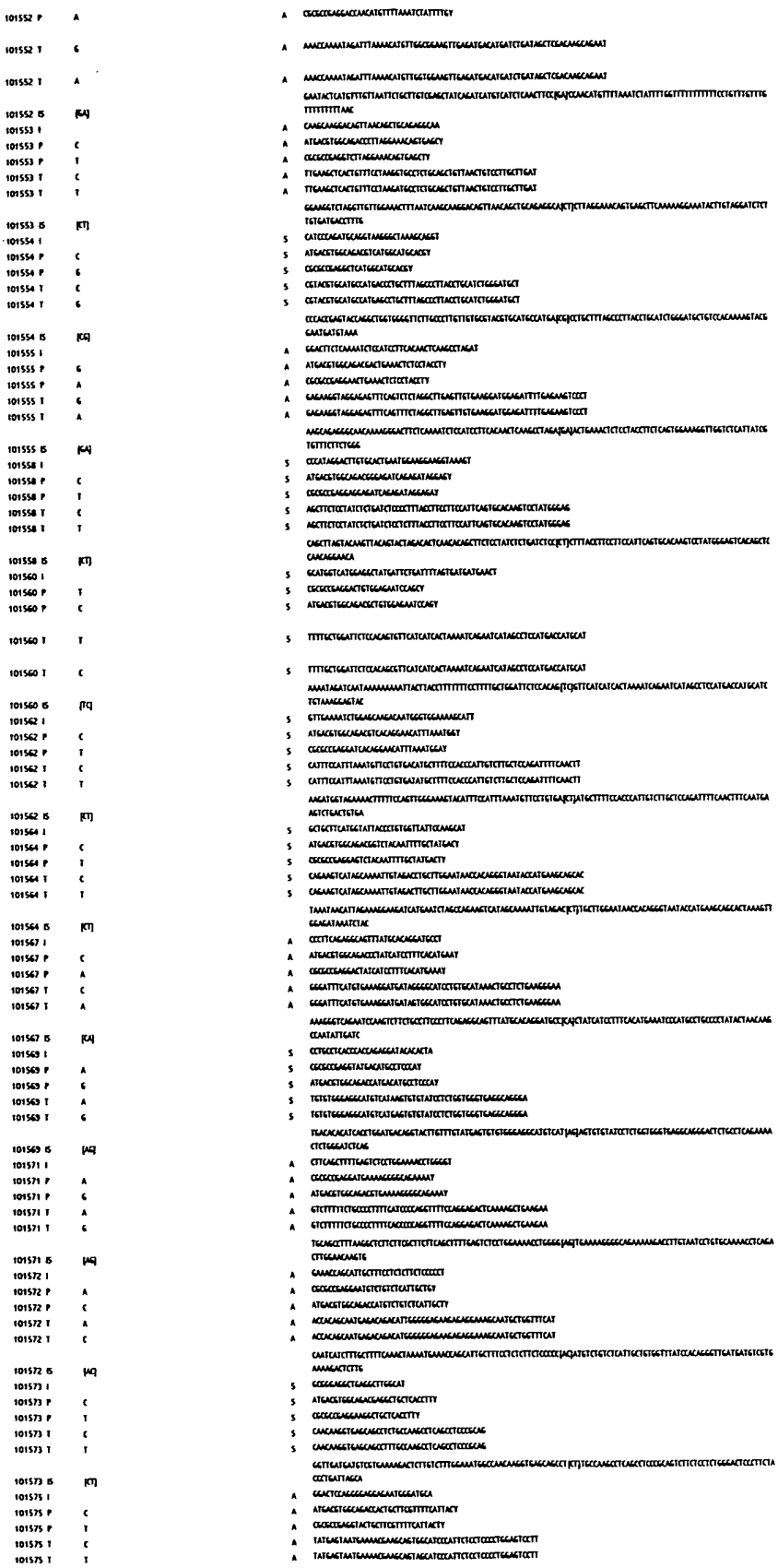


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FIGURE 129C







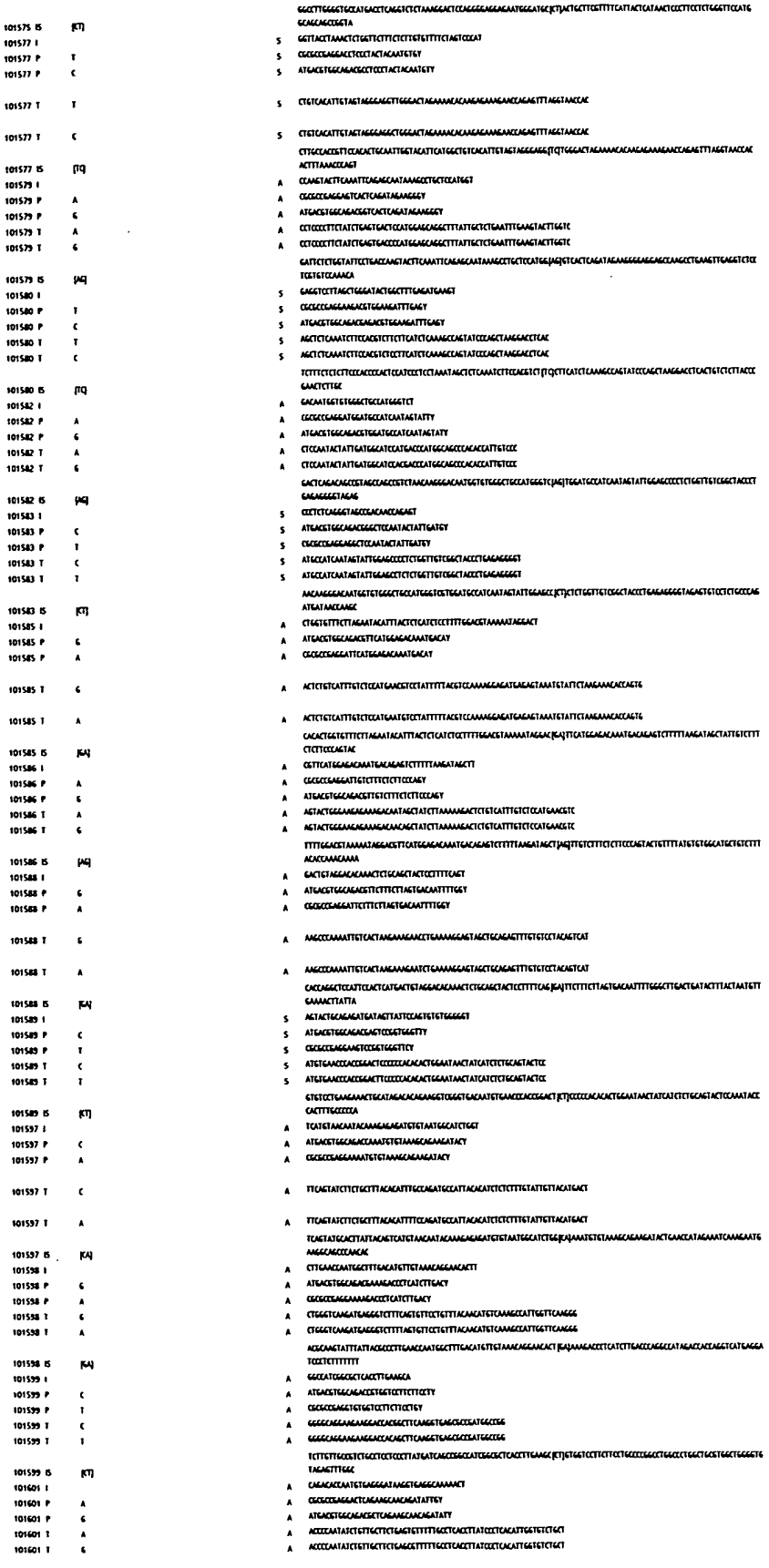




FIGURE 129C

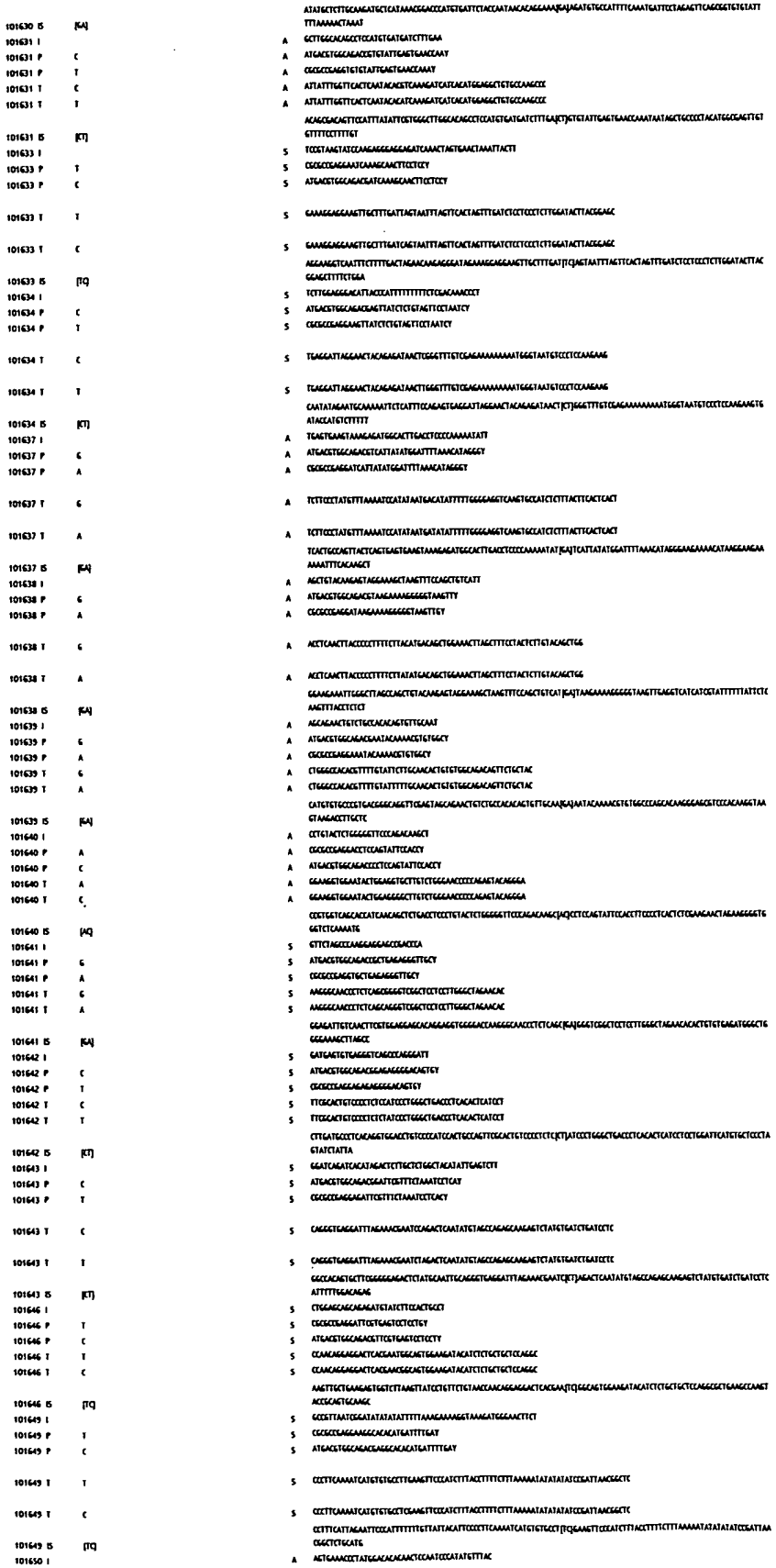


FIGURE 129C

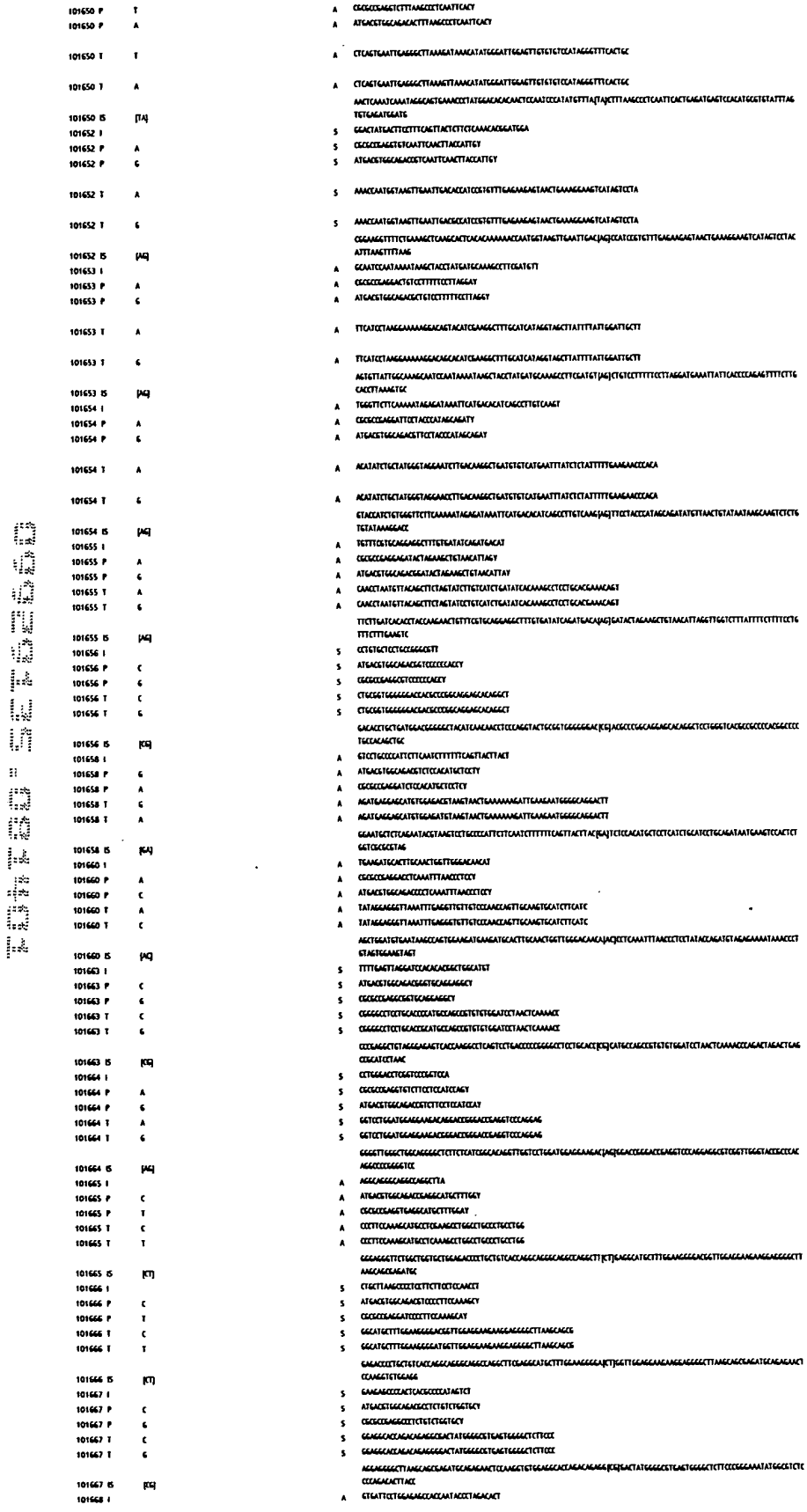


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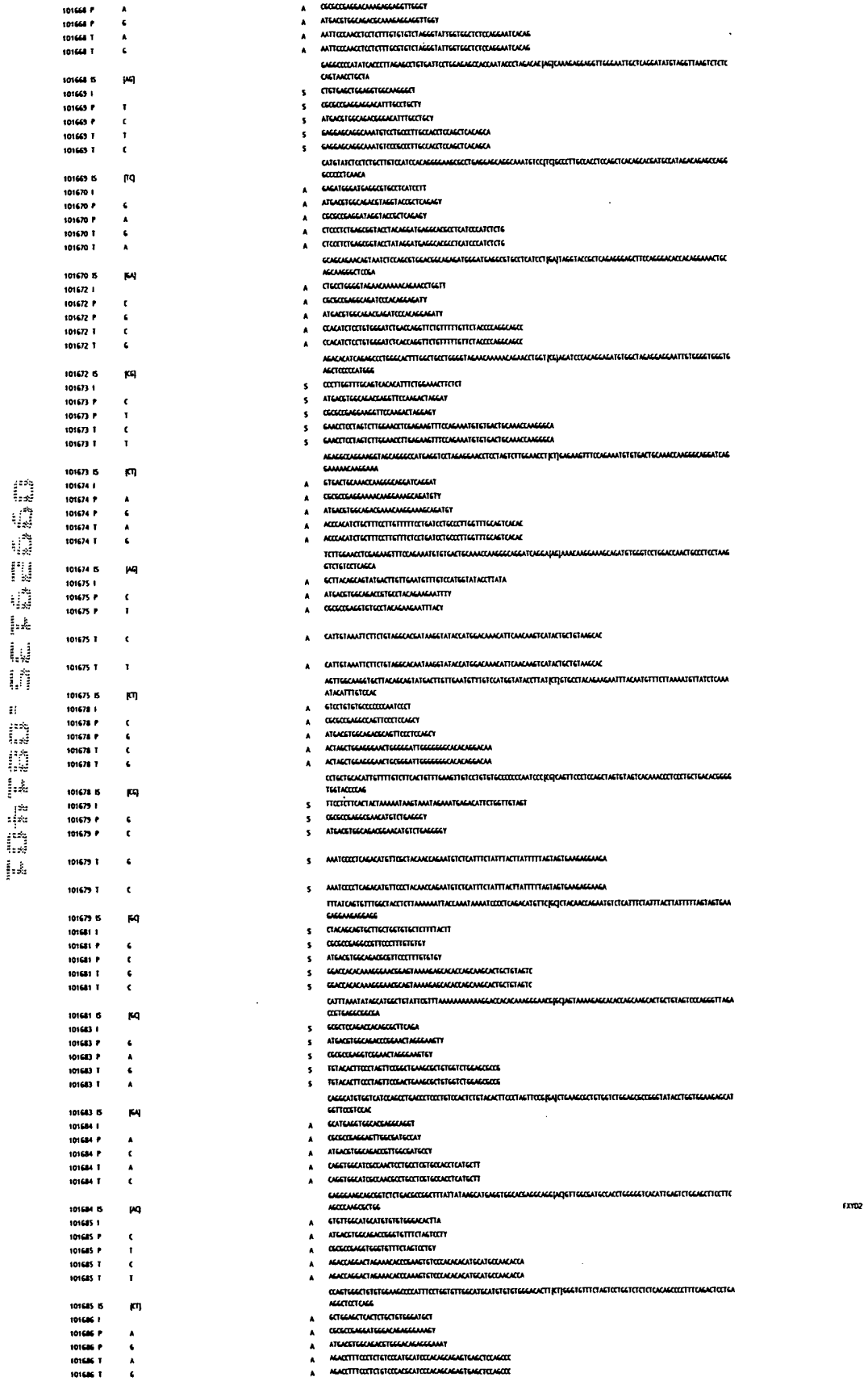
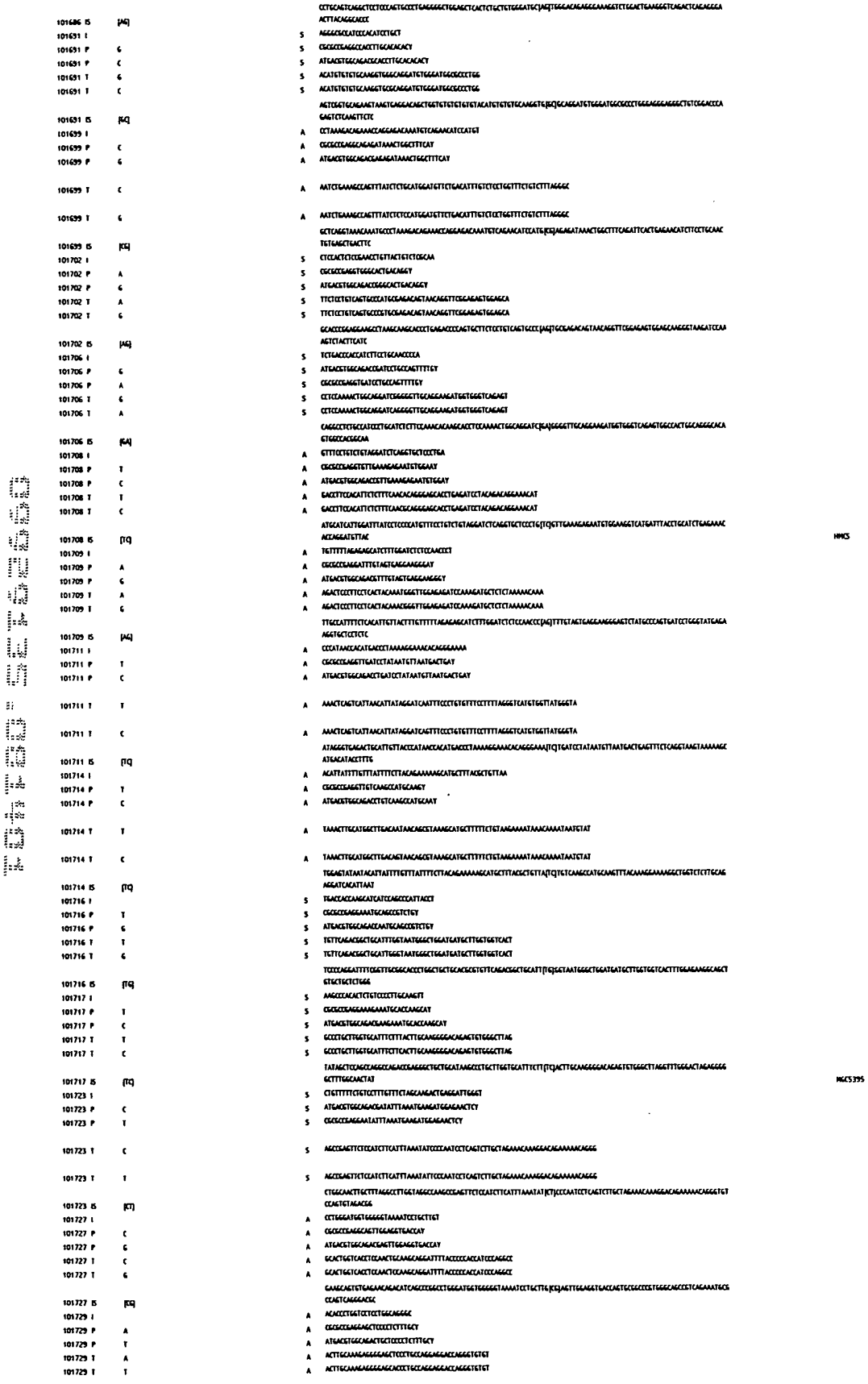
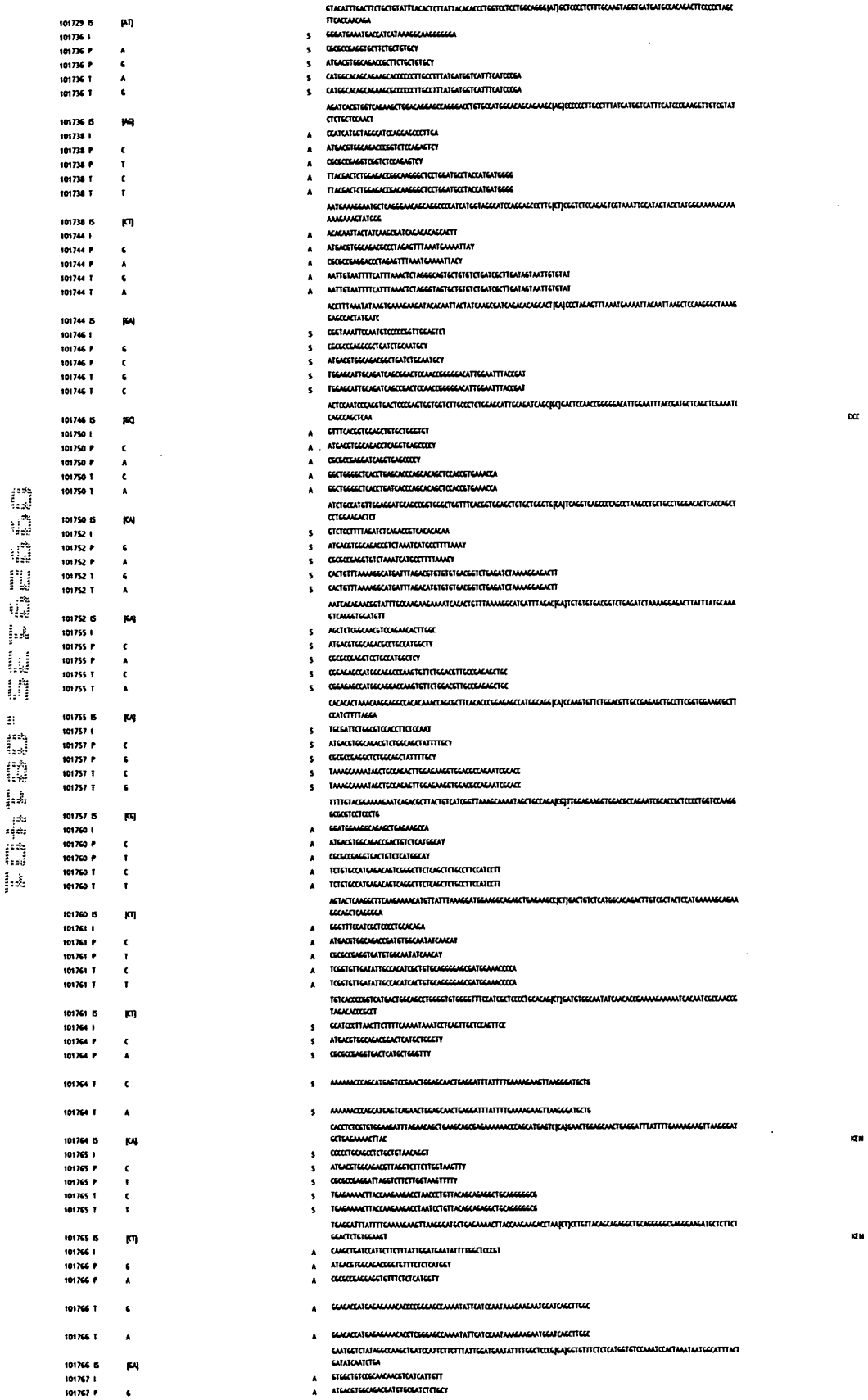
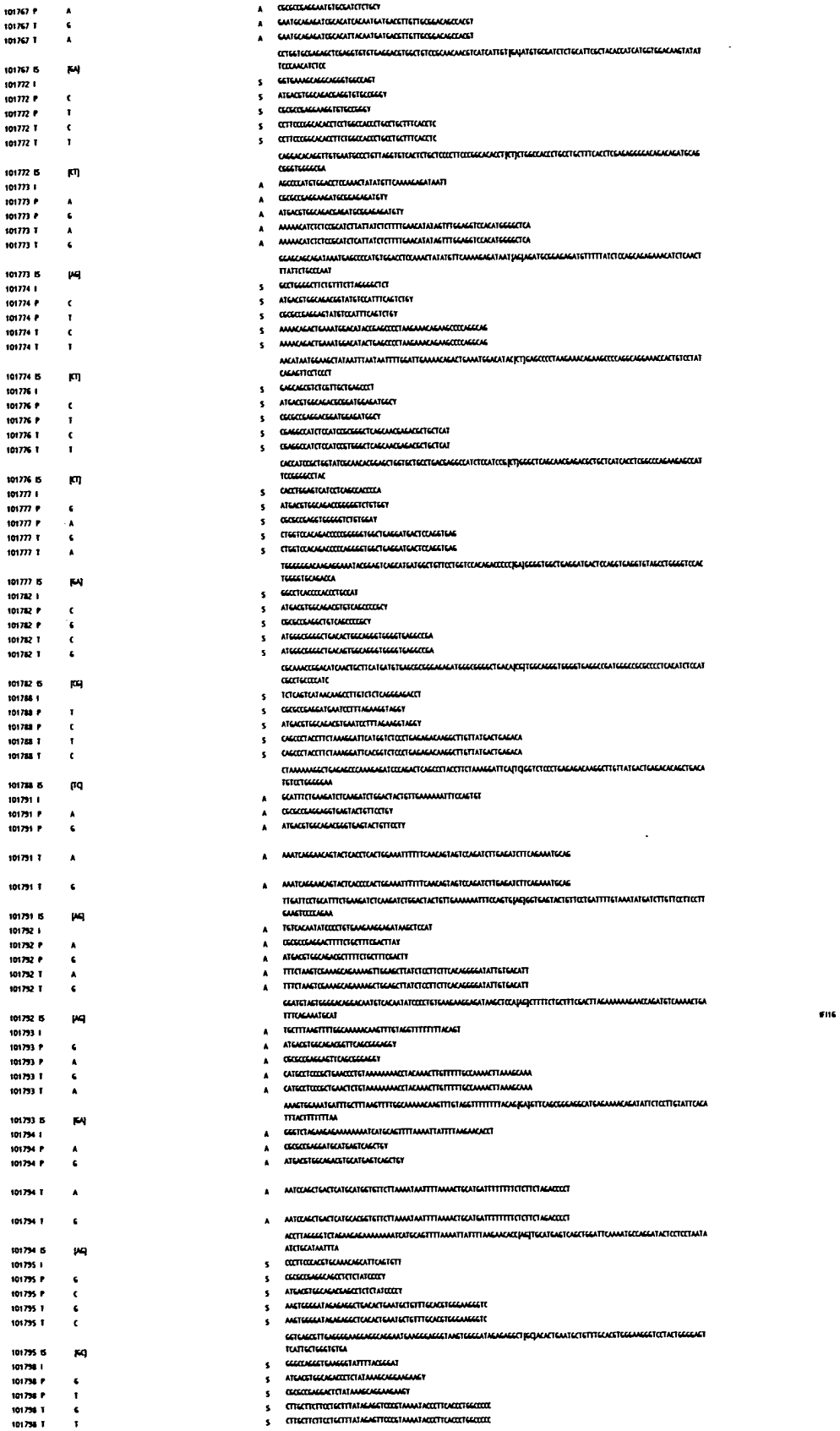


FIGURE 129C









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101803 I		S	GGTGCAGTTGTTGCTGTTTGGCTGAATGTCTAAGAAAAAA
101803 P	G	S	ATGACGTGGCAGACACCAGTTTGGAATTTCACACCY
101803 P	A	S	CGCGCCGAGGTAGTTTGGAATTTCACACCTY
101803 T	G	S	GGGGAGGTGTGAAATTCCAAACTGTTTTTCTTAGACATTCAGCCAAACAGCAACAACTGCACCAA
101803 T	A	S	GGGGAGGTGTGAAATTCCAAACTATTTTTCTTAGACATTCAGCCAAACAGCAACAACTGCACCAA
			GGAGCAGACGGCATTTGCTGCAGACCTCTATGAAGGTGGGGAGGTGTGAAATTCCAAACTRAJTTTTTCTTAGACATTCAGCCAAACAGCAACAACTGCACCAACACAC
101803 IS	(GA)		TTTATTTTTTTT
101806 I		S	ACCTTTTTCTTCTTTACCTGTGAGGGAGTCTGGAAGTGACT
101806 P	T	S	CGCGCCGAGGAATGTTTGAGGGCCATGY
101806 P	C	S	ATGACGTGGCAGACGATGTTTGAGGGCCATGY
101806 T	T	S	ACGTCATGGCCCTCAAACATTGTCACTTCCAGACTCCCTCACAGGTAAAGAAGAAAAAGGTAG
101806 T	C	S	ACGTCATGGCCCTCAAACATCGTCACTTCCAGACTCCCTCACAGGTAAAGAAGAAAAAGGTAG
			AGCAGCAGGTGGCCCCAGGAATTCTCCTGTGGCTTGAAAAACGTCATGGCCCTCAAACATJTCJGTCACTTCCAGACTCCCTCACAGGTAAAGAAGAAAAAGGTAGTACCT
101806 IS	(TC)		CTTTCCTTCCTAA
101809 I		S	GGGTGGGCTCAGGATGGCACATGTCTTT
101809 P	C	S	ATGACGTGGCAGACGTGAAGACACAGAGTTCTTGY
101809 P	T	S	CGCGCCGAGGATGAAGACACAGAGTTCTTGY
101809 T	C	S	AAAACAAGAACTCTGGTCTTCACAAGACATGTGCCATCCTGAGCCCACCCAG
101809 T	T	S	AAAACAAGAACTCTGGTCTTCATAAGACATGTGCCATCCTGAGCCCACCCAG
			TTTAGGCATAAGGTCTGTATCTTATTAAAGTAGGAGGAAAAACAAGAACTCTGGTCTTCAJCTJAAGACATGTGCCATCCTGAGCCCACCCAGCTCCTCTCCAGTAAAAAC
101809 IS	(CT)		AGAGCCTTGGGTG
101810 I		A	CACTGAACCCAAATAAAAGTCCAGGCGGAAAAAAGCAT
101810 P	A	A	CGCGCCGAGGATGAATGAAGGCAGAGCY
101810 P	G	A	ATGACGTGGCAGACGTGAATGAAGGCAGAGCY
101810 T	A	A	ACATGCTCTGCCTTCATTCATTGCTTTTTTCCGGCTGGACTTTTATTTGGGTTCAGTGTA
101810 T	G	A	ACATGCTCTGCCTTCATTCACTGCTTTTTTCCGGCTGGACTTTTATTTGGGTTCAGTGTA
			ATTTCCAATATTAACTAAGCTTACACTGAACCCAAATAAAAGTCCAGGCGGAAAAAAGCAJAGJTGAATGAAGGCAGAGCATGTTTCAGCTCCATGTCCTTGGGAAGTTA
101810 IS	(AG)		GGACAACACTGAAG
101812 I		A	ATTCAACAAACAACTACACAAATAAATTAGAATTATATAGTTACTATAACTGTAGTAGGGC
101812 P	T	A	CGCGCCGAGGTCATGCCCTGTAATGTTTY
101812 P	G	A	ATGACGTGGCAGACGCATGCCCTTGTAATGTY
101812 T	T	A	TCAAAAACATTACAAGGGCATGACCCTACTACAGTTATAGTAACTATATAATTCTAATTTATTTGTGTAGTTGTTTGTTGAAT
101812 T	G	A	TCAAAACATTACAAGGGCATGCCCCTACTACAGTTATAGTAACTATATAATTCTAATTTATTTGTGTAGTTGTTTGTTGAAT
101812 IS	(TG)		ATTCAACAAACAACTACACAAATAAATTAGAATTATATAGTTACTATAACTGTAGTAGGGJTGJCATGCCCTGTAATGTTTTTGAAGGGTTTCTGGATATCCTCCCAAT GCAAAGACAAAAAA
101813 I		S	CCGCACCCTAAACAGGGCAAGGGCT
101813 P	C	S	ATGACGTGGCAGACGTCACGTTTTTAAATTCACGCY
101813 P	T	S	CGCGCCGAGGATCACGTTTTTAAATTCACGCY
101813 T	C	S	CTGAGCGTGAATTTAAAAACGTGACGCCCTTGCCCTGTTTAGGGTGCGGGT
101813 T	T	S	CTGAGCGTGAATTTAAAAACGTGATGCCCTTGCCCTGTTTAGGGTGCGGGT
			GCTAGGGGCAAGCTTGGAAGGCATAAGGACAAACATCTGAGCGTGAATTTAAAAACGTGAJCTJGCCCTTGCCCTGTTTAGGGTGCGGGTTGGAGACGTTCCAGGTCACG TAATCAAATGACAG
101813 IS	(CT)		
101814 I		S	TCCCAAAGGGGTCTCAAGTCAATTAATAGCTGTCATTTGATTAA
101814 P	G	S	ATGACGTGGCAGACGGTGACCTGGAACGTY
101814 P	A	S	CGCGCCGAGGTGTGACCTGGAACGTCY
101814 T	G	S	TGGAGACGTTCCAGGTCAGGTAATCAAATGACAGCTATTAATTGGACTTGAGACCCCTTTGGGAAA
101814 T	A	S	TGGAGACGTTCCAGGTCACATAATCAAATGACAGCTATTAATTGGACTTGAGACCCCTTTGGGAAA
			ATTTAAAAACGTGACGCCCTTGCCCTGTTTAGGGTGCGGGTTGGAGACGTTCCAGGTCACJGAJTAATCAAATGACAGCTATTAATTGGACTTGAGACCCCTTTGGGAAA
101814 IS	(GA)		AGCCTCTTCGTAAC
101820 I		A	CCTGATCCCCTTCATCATCCAGGAAGAGCAGAT
101820 P	A	A	CGCGCCGAGGATGGTCACCCTGATAGCY
101820 P	G	A	ATGACGTGGCAGACGTGGTCACCCTGATAGCY
101820 T	A	A	TGCTGCTATCAGGGTGACCATCTCTGCTCTCGTGGATGATGAAGGGGATCAGGAC
101820 T	G	A	TGCTGCTATCAGGGTGACCACCTCTGCTCTCGTGGATGATGAAGGGGATCAGGAC
			TAGATAACAGTTGGATTATATACCATGTCCTGATCCCCTTCATCATCCAGGAAGAGCAGAGJAGJTGGTCACCCTGATAGCAGCAAGCCTGGGGGCTGCAGCTTGGTGGGTA GAGGTACTCAGGG
101820 IS	(AG)		
101823 I		S	GGCTGCTGGCTCCTCCGGGGT
101823 P	C	S	ATGACGTGGCAGACGCTCCTCCGTGGGY
101823 P	T	S	CGCGCCGAGGACTCCTCCGTGGGY
101823 T	C	S	GCTGCCCACGCAGGAGCCCCCGGAGGAGCCAGCAGCCCC
101823 T	T	S	GCTGCCCACGCAGGAGCTCCCCGGAGGAGCCAGCAGCCCC
			AGGGACCTGGAAGACTTTCTCCAAGTTCCTGGACAACGGGGGCGTGCTGCCCACGCAGGAGCAJGTCCCCGCAGGAGCCAGCAGCCCCGTTCCCGGTGGGTGTCCCTAAGCCA GGGCTCCAGGCCT
101823 IS	(CT)		
101825 I		S	CTGTTCCGTGGACACCTCTGTAATTCTACTGACACACAC
101825 P	A	S	CGCGCCGAGGTCTGGAAGGAAGGAAGGY
101825 P	T	S	ATGACGTGGCAGACACTGGAAGGAAGGAAGGY
101825 T	A	S	GAAACCTTCCTTCCTTCCAGAATGTGTGTCAGTAGAATTACAGAGTGTCCACGGAAACAGCT
101825 T	T	S	GAAACCTTCCTTCCTTCCAGTTGTGTGTCAGTAGAATTACAGAGTGTCCACGGAAACAGCT
			TTTTTGCACTGACAATAATCATTTCGTTTCTTTTTGAACAGAAACCTTCCTTCCTTCCAGJATJTGTGTGTCAGTAGAATTACAGAGTGTCCACGGAAACAGCTCATGCCCT AGTGTACAGTGG
101825 IS	(AT)		
101826 I		A	CGTGCAGATCACGTGAATGCCGCAGCT
101826 P	C	A	ATGACGTGGCAGACCCAGGAGTTCCACCGY
101826 P	A	A	CGCGCCGAGGACAGGAGTTCCACCGY
101826 T	C	A	GGGGCGGTGGAACTCCTGGGCTGCGGCCATTCACGTGATCTGCACGGG
101826 T	A	A	GGGGCGGTGGAACTCCTGTGCTGCGGCATTCACGTGATCTGCACGGG
			GGCAGGCACTCGGACCGGTGCCTACATCTGCGCCCCTGCAGATCACGTGAATGCCGCAGCJCAJCAGGAGTTCCACCGCCCCACGCCCCGCTCCTAGCCAGCCGCTTCCAGC CACCCACCACC
101826 IS	(CA)		
101829 I		A	CCGCCCTCACTTTCCAGGGCCGT
101829 P	A	A	CGCGCCGAGGATTCAGTCGCCTCATGTY
101829 P	G	A	ATGACGTGGCAGACGTTCAGTCGCCTCATGY
101829 T	A	A	TTGCACATCAGGCCACTGAATCGGCCTTGGAAAGTCAGGGCGGAC
101829 T	G	A	TTGCACATCAGGCCACTGAACCGGCCTTGGAAAGTCAGGGCGGAC
			CCCCACACACCCTCACAGCCGTCTCACACCTAGCTGTCCGCCCTCACTTTCCAGGGCCCJAGJTTCAGTCGCCTCATGTGCAAAATGGGCTCATAGGATAGACGGAAATCT CTCAGTCACTAA
101829 IS	(AG)		
101831 I		S	CCGTCAGACCTGGTGCGGCGTTCTA
101831 P	G	S	ATGACGTGGCAGACACTCATCGCTCTCGTY
101831 P	A	S	CGCGCCGAGGTACTCATCGCTCTCGTCY
101831 T	G	S	GCGGGACGAGAGCGATGAGTGAGAACGCCGCACCAGGTCTGACGGGG
101831 T	A	S	GCGGGACGAGAGCGATGAGTAAGAACGCCGCACCAGGTCTGACGGGG
			GCCACCTAGCTAGCCGTCAGGGAGTGACAGCAGCGCATTCCCGGGACACAGAGCGATCAGTJGAJGAAGCCCCACTCAGGTCTGACGGGGAGGCCTTGTGCGAGCGTCCC ACTGCCACCCAGC
101831 IS	(GA)		
101832 I		S	GGTCGGCCGAGCCCCGCT
101832 P	T	S	CGCGCCGAGGATCGCCCCTGTGGY
101832 P	C	S	ATGACGTGGCAGACGTCGCCCCTGTGGY
101832 T	T	S	ACAGCCACACGGGCGATGCGGGGCTCGGCCGACCCC

FIGURE 129C

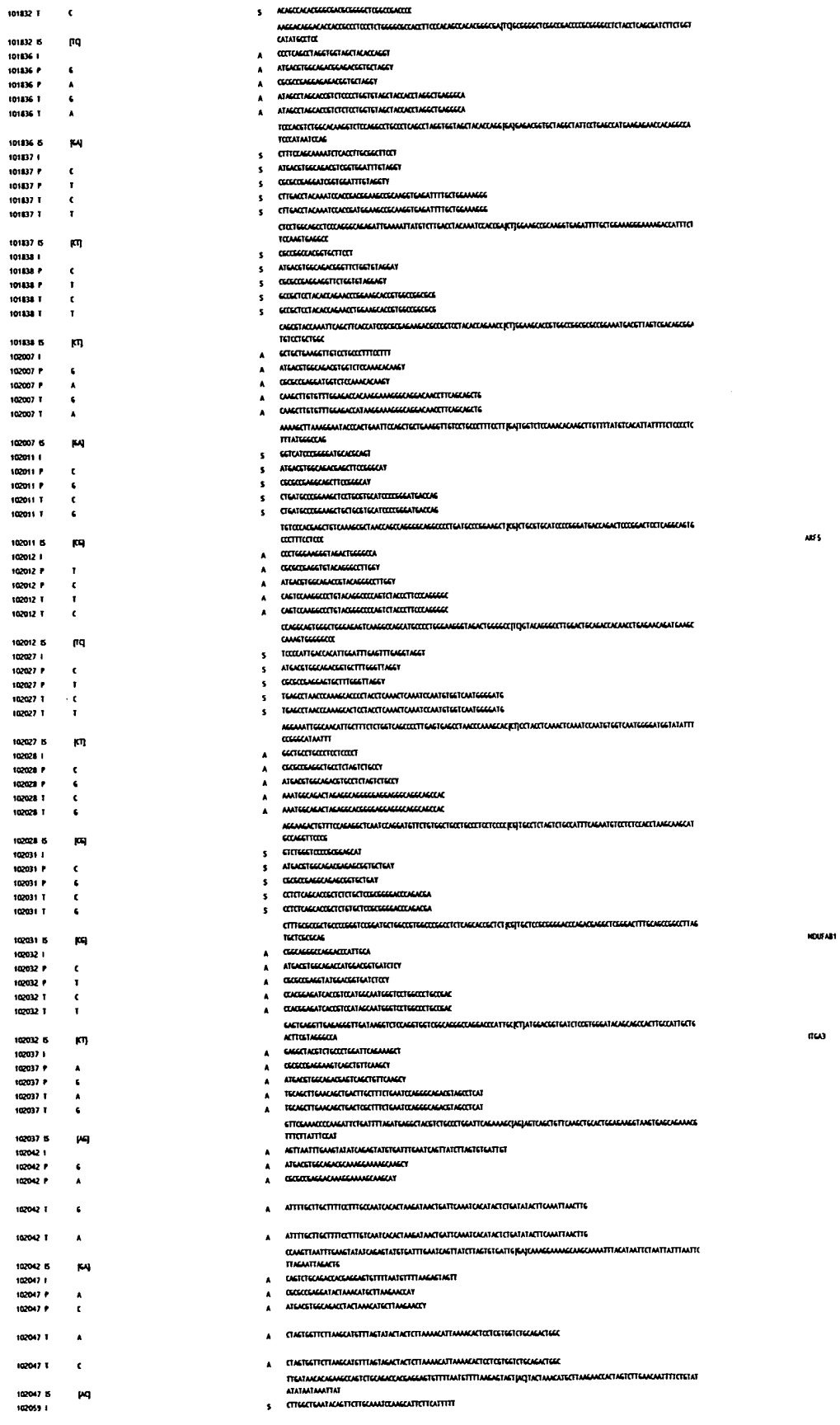
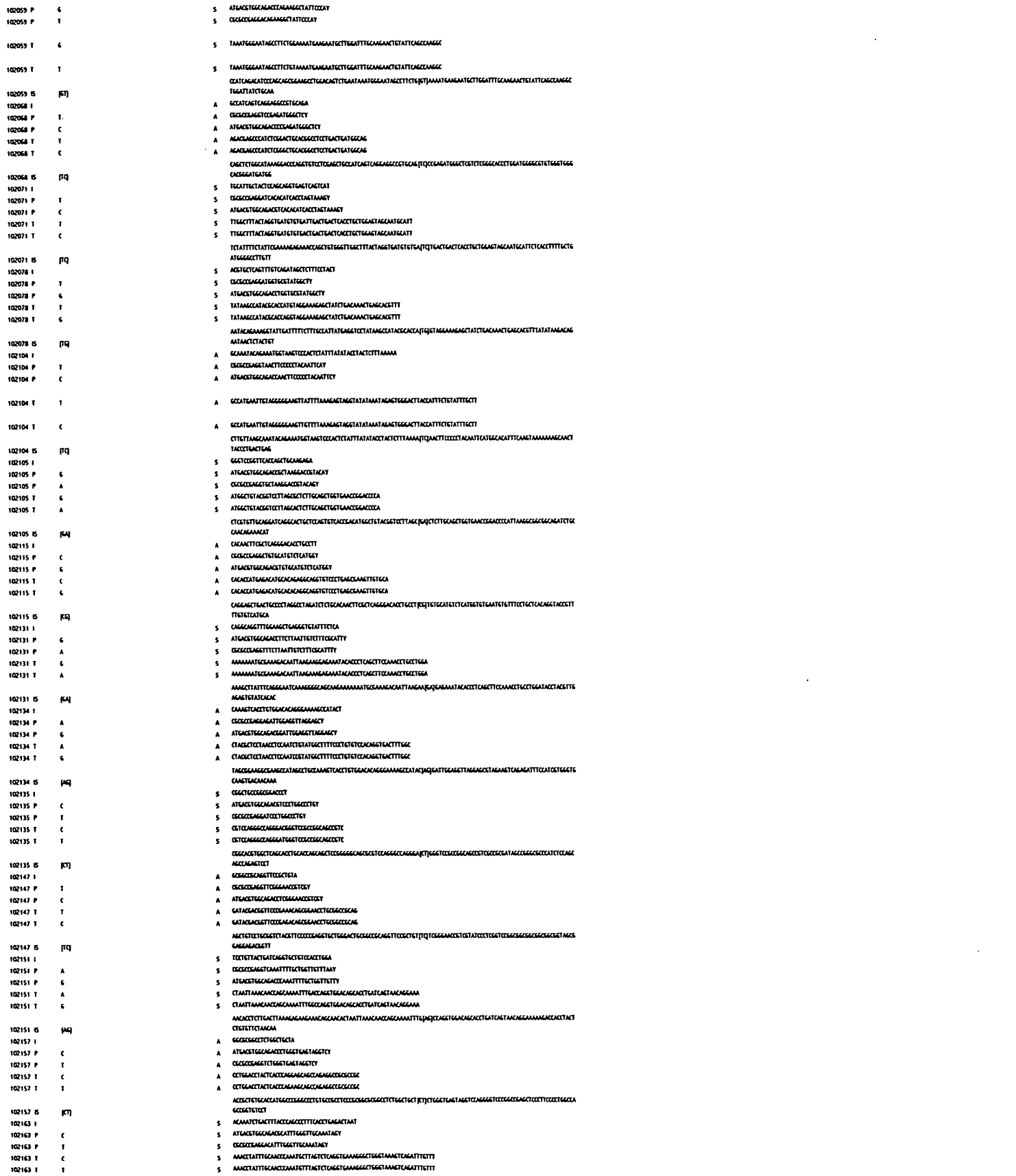
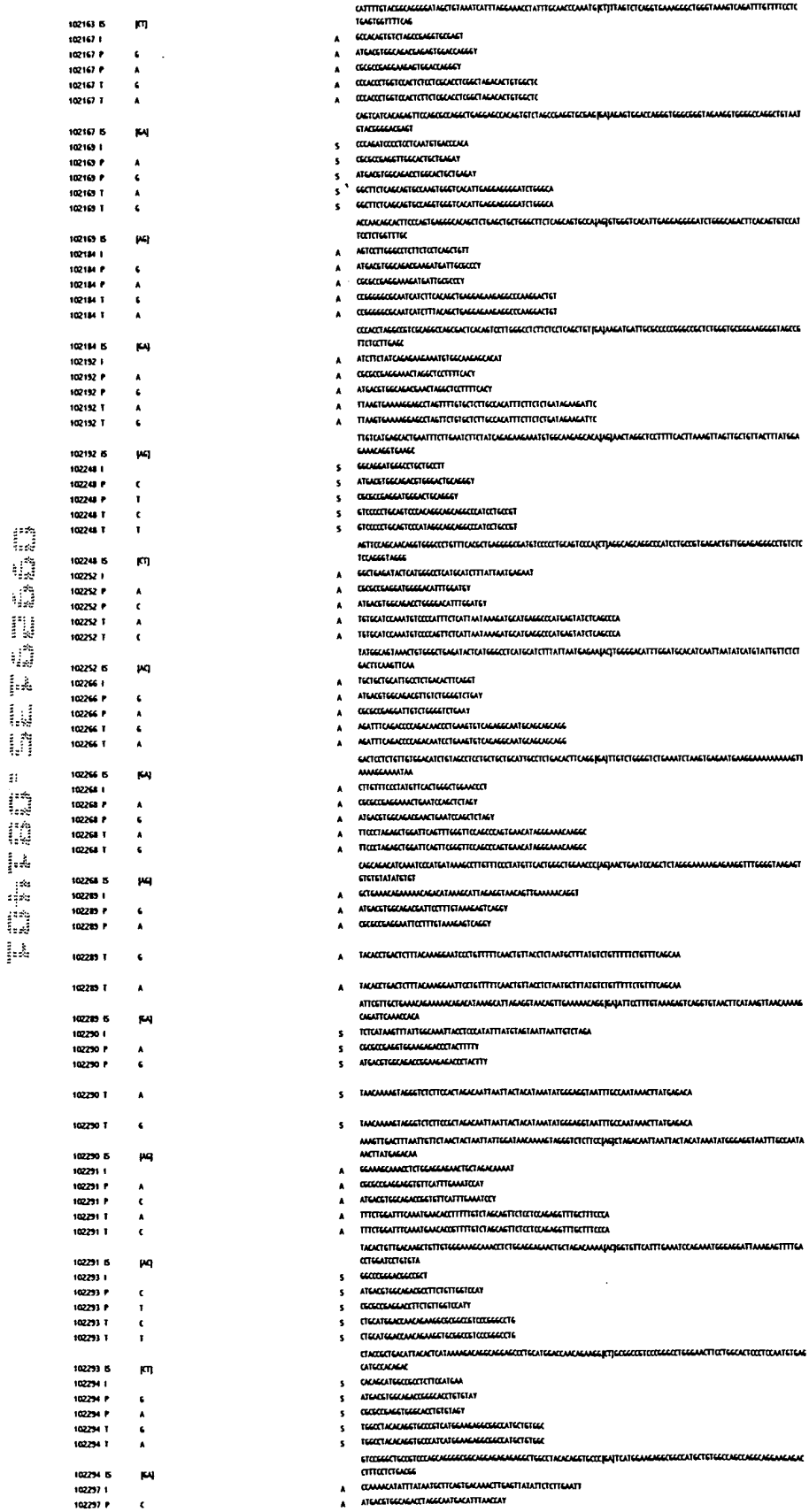


FIGURE 129C



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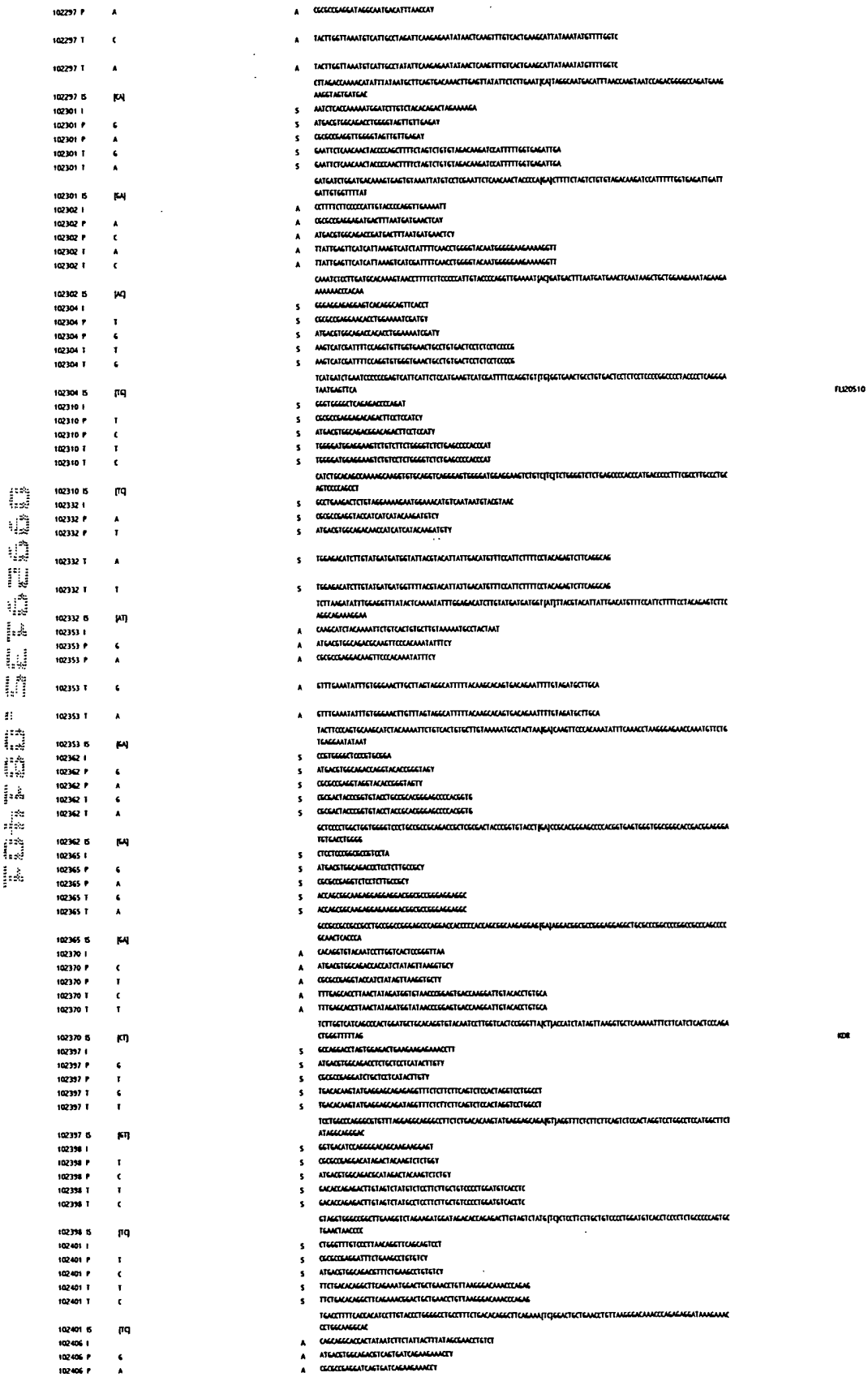


FIGURE 129C

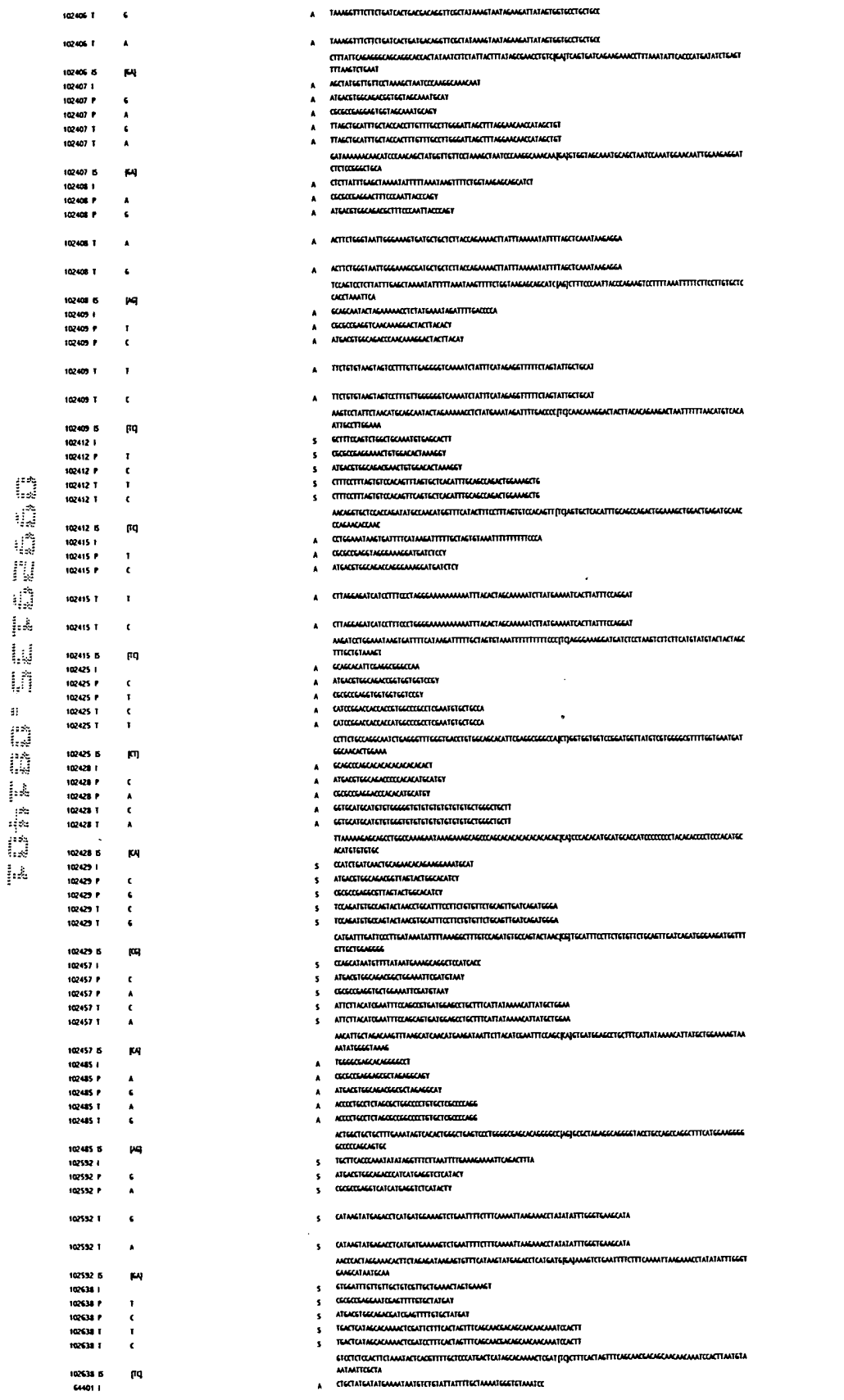


FIGURE 129C

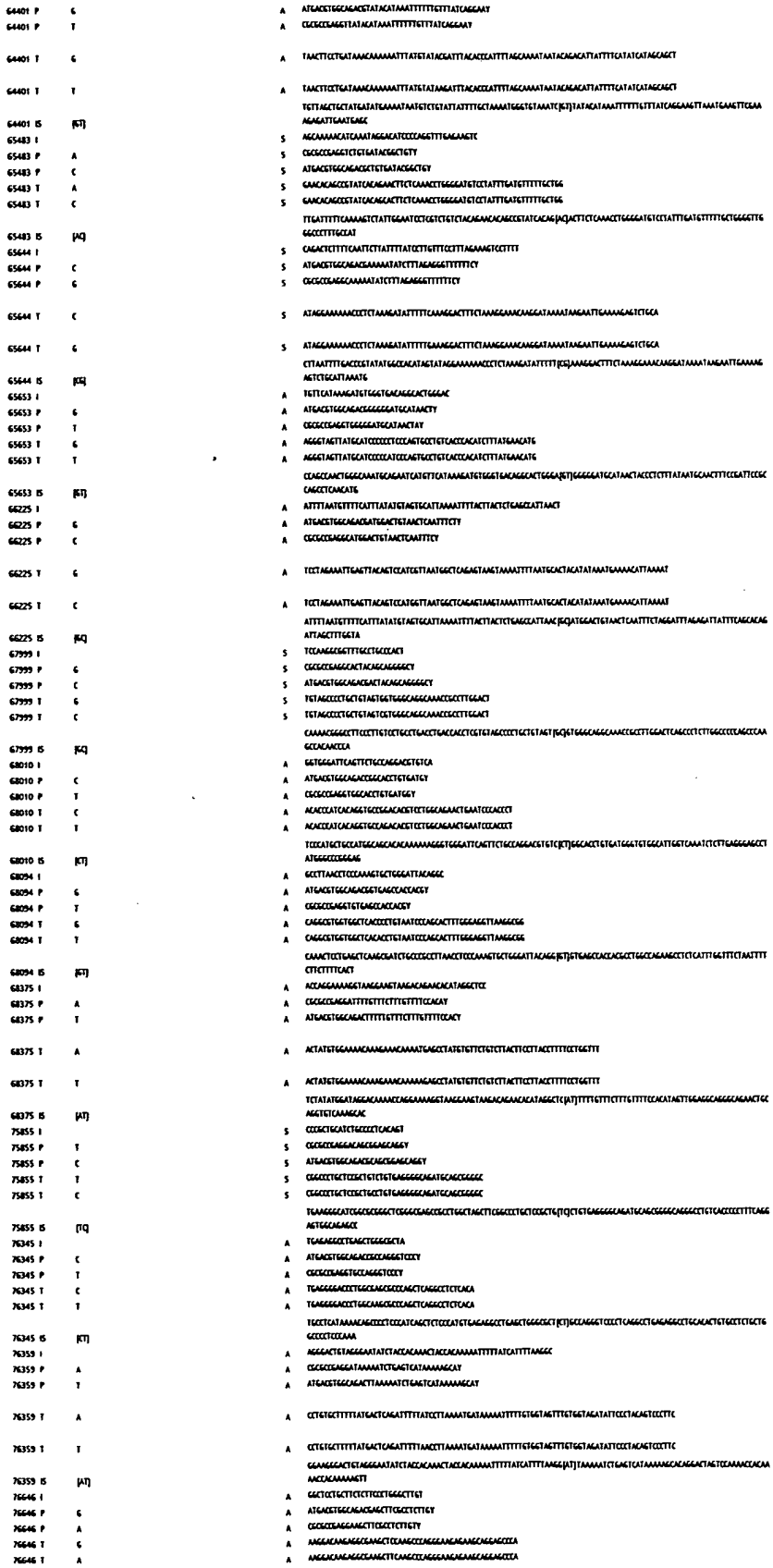


FIGURE 129C

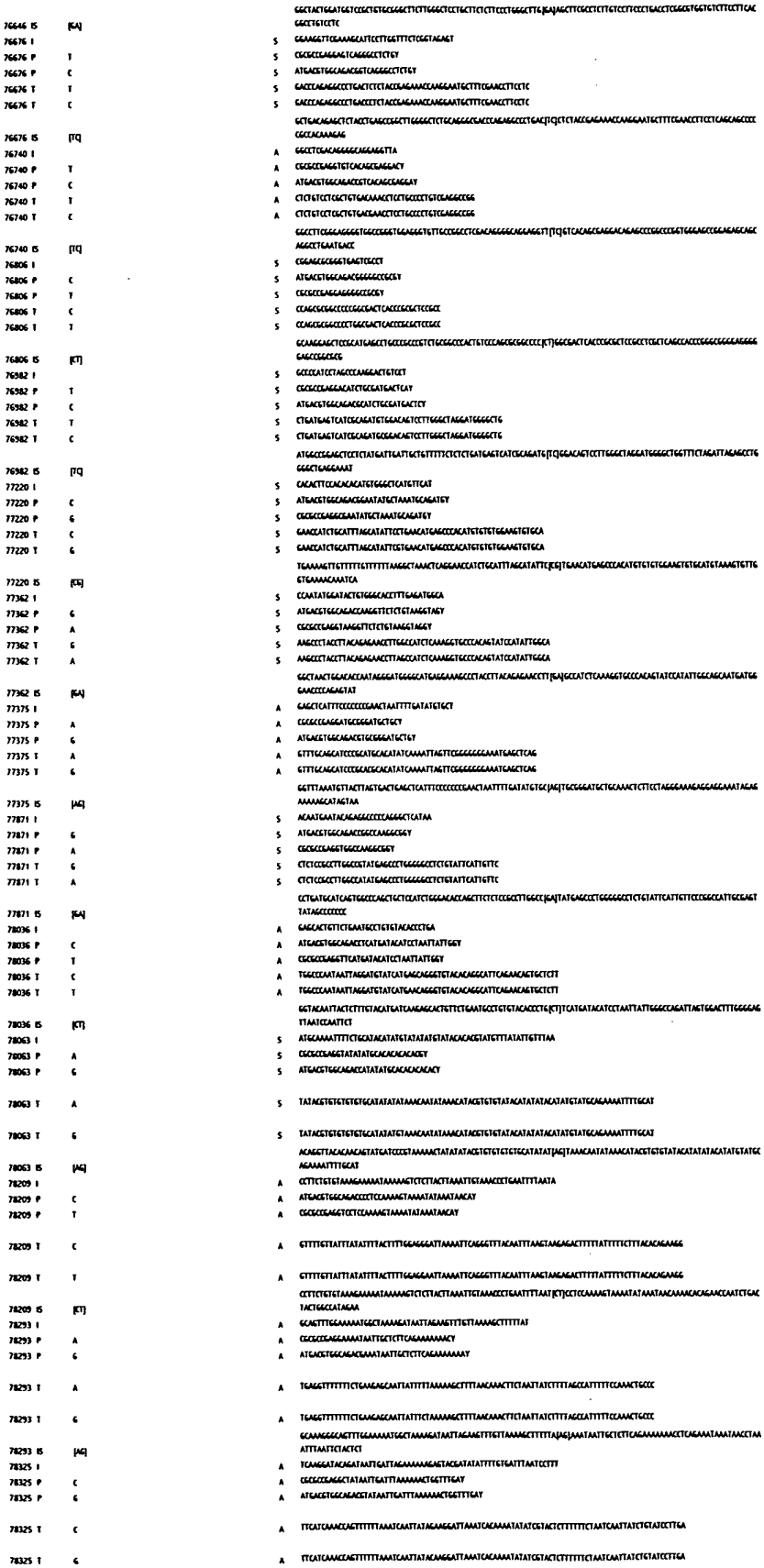
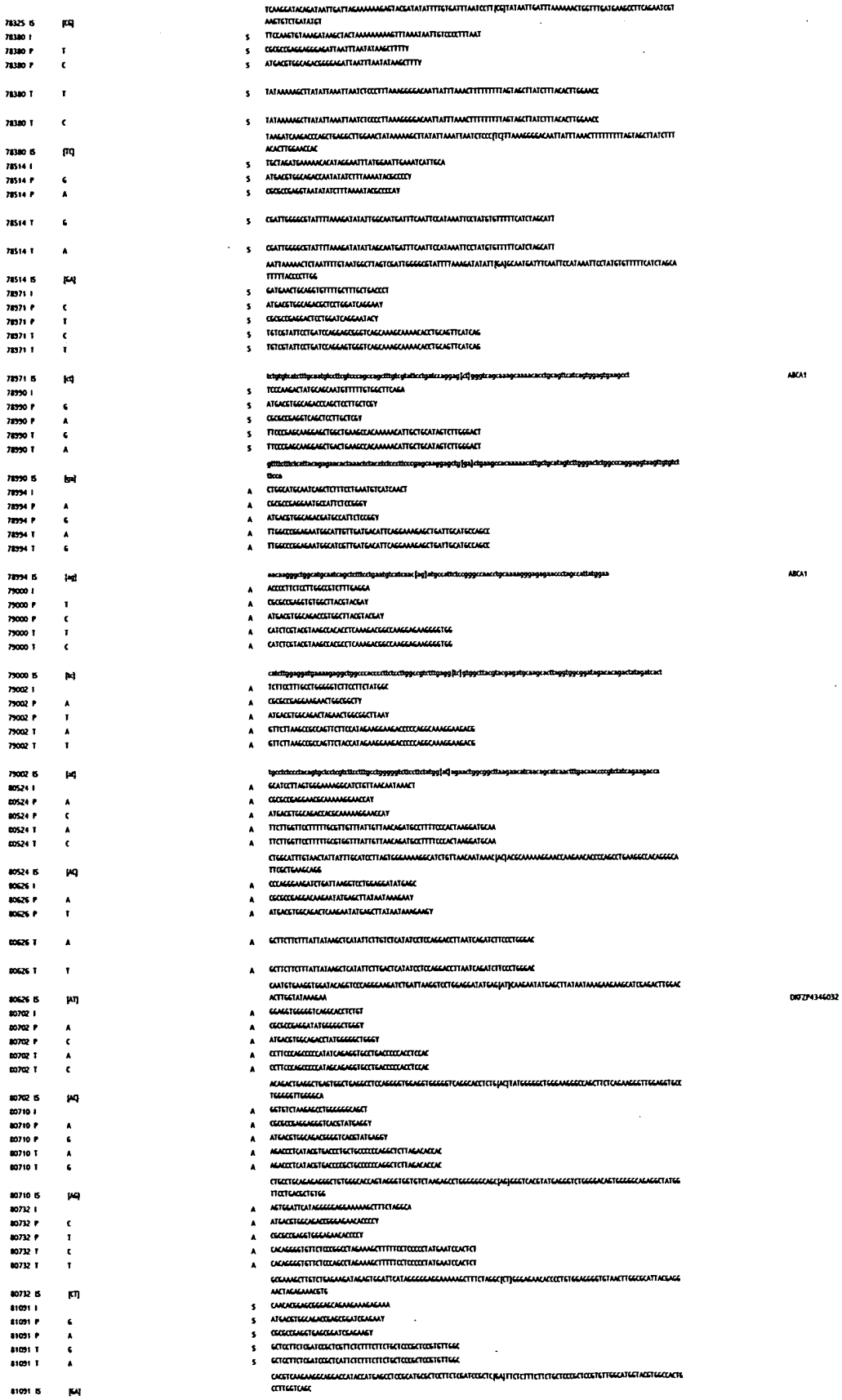


FIGURE 129C





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81313 P  T       S  CGCGCCGAGCAGCAGAGTGGAAGAGTTTTTAAAT
81313 P  C       S  ATGACGTGGCAGACGCAGAGTGGAAGAGTTTTTAAT

81313 T  T       S  GGCCTTTAAAAACTCTTCCACTCTCTTGCCACGTCTTTTGAAAATTTTTTCTTACTTCTTTAGGTGAATCAG

81313 T  C       S  GGCCTTTAAAAACTCTTCCACTCTCCTGCCACGTCTTTTGAAAATTTTTTCTTACTTCTTTAGGTGAATCAG

81313 IS (TC)      CTCAGTTGCAGAAGCATCTGCGGTTGCATATCCCAGGCCTTTAAAAACTCTTCCACTCTCTCTGCCACGTCTTTTGAAAATTTTTTCTTACTTCTTTAGGTGAATCAGAG
                   ATATCTAAAATA
81318 I          S  CAGCACCTGAGGTGGGGGGGCT
81318 P  C       S  ATGACGTGGCAGACGGGGGTGAGCATCATY
81318 P  T       S  CGCGCCGAGCAGGGGTGAGCATCATCY
81318 T  C       S  CCCTGATGATGCTCACCCCCGCCCCCCCCACCTCAGGTGCTGCT
81318 T  T       S  CCCTGATGATGCTCACCCCTGCCCCCCCACCTCAGGTGCTGCT

81318 IS (CT)      GGCTCTCATATACCTTCTGCAAGGGGGCAGTCTCCCCCAGCTCCCTGATGATGCTCACCCCCTCTGCCCCCCCACCTCAGGTGCTGCTGGTGTGAGCCAAAGACTGGAGTTTTT
                   CCAGCTGGGGT
81484 I          S  GCCCCCTGCCCCCTGCATACA
81484 P  A       S  CGCGCCGAGGTGCACCCCACCCY
81484 P  G       S  ATGACGTGGCAGACGCACCCCACCCY
81484 T  A       S  GGCAGGGTGGGGGTGCAGTATGCAGGGGGCAGGGGGGCAG
81484 T  G       S  GGCAGGGTGGGGGTGCGGTATGCAGGGGGCAGGGGGGCAG

81484 IS (AG)      GGCCCCTTTACCTCCGCCTGCGGACAGGGCACAGTGGGACACCTTGGCAGGGTGGGGTGCTAGTGTATGCAGGGGGCAGGGGGGCAGGGTCCCTTCACCTGGCCCAGCAC
                   CGTCCTGGCCACA
81828 I          A  GGATCAGCTGTTTACTTTTGTAAATTATAATCCACATGACAAACATACCTAAATCCACT
81828 P  G       A  ATGACGTGGCAGACGAGAATCGCATGCTGCY
81828 P  A       A  CGCGCCGAGGAAGAATCGCATGCTGCY

81828 T  G       A  CTCAGCAGCATGCGATTCTCGTGGATTTAGGTATGTTTGTCATGTGGATTATAATTTACAAAAGTAAACAGCTGATCCCT

81828 T  A       A  CTCAGCAGCATGCGATTCTTGTGGATTTAGGTATGTTTGTCATGTGGATTATAATTTACAAAAGTAAACAGCTGATCCCT

81828 IS (GA)      ACGGATCAGCTGTTTACTTTTGTAAATTATAATCCACATGACAAACATACCTAAATCCACTGAAGAATCGCATGCTGCTGAGCAGTGAGCTGCTTCAAAAGTTCCTTATA
                   GGATATGTCAGGA
81925 I          A  CTGCTCACCCAGCCCCTCCTATCCACT
81925 P  A       A  CGCGCCGAGGAAGAGCCCAGATGGAY
81925 P  G       A  ATGACGTGGCAGACGGGAGCCCAGATGGY
81925 T  A       A  CCCCTCCATCTCGGCTCCTGTGGATAGGAGGGGCTGGGTGAGCAGGC
81925 T  G       A  CCCCTCCATCTCGGCTCCCTGGATAGGAGGGGCTGGGTGAGCAGGC

81925 IS (AG)      CCAGCCGCAGGCACACACACATAGCCCAGCTGGCCTGCTCACCCAGCCCCTCCTATCCACTAGTGCAGCCCAGATGAGGGGCCAAGGGATGTCCTTCTGATCAGCTCAGGG
                   AACAGGTTTCAG
82152 I          S  TTCTGTATTTCCTATACTCTTTTCTTAGAGATGATAGCTAAGTGTCAGAA
82152 P  A       S  CGCGCCGAGGTAGGCATAAGAATACATATTTTTGTAAT
82152 P  G       S  ATGACGTGGCAGACAGGCATAAGAATACATATTTTTGTY

82152 T  A       S  GGCTTTACAAAAATATGTATTCTTATGCCTATCTGACACTTAGCTATCATCTCTAAGAAAAGAGTATAGGAAATACAGAAAT

82152 T  G       S  GGCTTTACAAAAATATGTATTCTTATGCCTGTCTGACACTTAGCTATCATCTCTAAGAAAAGAGTATAGGAAATACAGAAAT

82152 IS (AG)      CAACATAAGGTCATTGGGCCAAGAGCTGCAAGGCTTTACAAAAATATGTATTCTTATGCCTAGTCTGACACTTAGCTATCATCTCTAAGAAAAGAGTATAGGAAATACA
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82289 I          A  GCAACAATACTACCTGTCCCCAGGTGAGACCCT
82289 P  G       A  ATGACGTGGCAGACGAGGCACCTGCCCY
82289 P  A       A  CGCGCCGAGGAAGGCACCTGCCCY
82289 T  G       A  CTGGGGGCAGGTGCCTCGGGTCTCACCTGGGGACAGGTAGTATTGTTGCAG
82289 T  A       A  CTGGGGGCAGGTGCCTTGGGTCTCACCTGGGGACAGGTAGTATTGTTGCAG

82289 IS (GA)      CCAACGATGCAATGTCAGGAGGATGCCTGCAACAATACTACCTGTCCCCAGGTGAGACCCTGAAGAGCCCTGCCCCCAGGTGAGCCCCCGAGGCAACCTGCCCCCAAGTGAG
                   ACCCCAGGCACC
82426 I          A  GCCCTTGCAAATTGCAAATACTACAAATCAAAACTGCATTTCAGACT
82426 P  A       A  CGCGCCGAGGATATTTATGATGTTTGCAAAACTTCY
82426 P  G       A  ATGACGTGGCAGACGTATTTATGATGTTTGCAAAACTTCY

82426 T  A       A  TACTGAAGTTTTGCAAACATCATAAATATGTCTGAAATGCAGTTTTGATTTGTAGTATTTGCAATTTCCAAGGGCCA

82426 T  G       A  TACTGAAGTTTTGCAAACATCATAAATACGTCTGAAATGCAGTTTTGATTTGTAGTATTTGCAATTTCCAAGGGCCA

82426 IS (AG)      ACCTGTGGTAAATGGCCCTTGGAAATTGCAAATACTACAAATCAAAACTGCATTTCAGACTAGTATTTATGATGTTTGCAAAACTTCAGTAGAGCTAAGCAGTGGACTT
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84327 I          S  GGGACCTGACACATGAACTGAAGTGTAATTGGCATTCTTCT
84327 P  T       S  CGCGCCGAGGATGGAAGGGGCATGGY
84327 P  C       S  ATGACGTGGCAGACGTGGAAGGGGCATGY
84327 T  T       S  AAATCCATGCCCCTTCCATGAAGAATGCCAATTACACTTCAGTTCATGTGTCAGGTCCCAA
84327 T  C       S  AAATCCATGCCCCTTCCACGAAGAATGCCAATTACACTTCAGTTCATGTGTCAGGTCCCAA

84327 IS (TC)      GTAAGTGCTAGGTGGGATTGGTATTTGAACTCAGCACAATTTAAATCCATGCCCCTTCCATCGAAGAATGCCAATTACACTTCAGTTCATGTGTCAGGTCCCAAAAGAA
                   TGATTTCATTGCC
84332 I          A  AAAAGAATATTAGTATTAAAGTATTAAACTATCTGTCACAATGAAAGAATCCATTTGAAT
84332 P  G       A  ATGACGTGGCAGACGTTAAAGAAAACAAGCAAATATGY
84332 P  A       A  CGCGCCGAGGATTAAAGAAAACCAAGCAAATATGY

84332 T  G       A  GTGGCATATTTGCTTGGTTTTCTTTAACTTCAAATGGATTCTTTCATTGTGACAGATAGTTTTAATACTTTAATACTAATATTCTTTT

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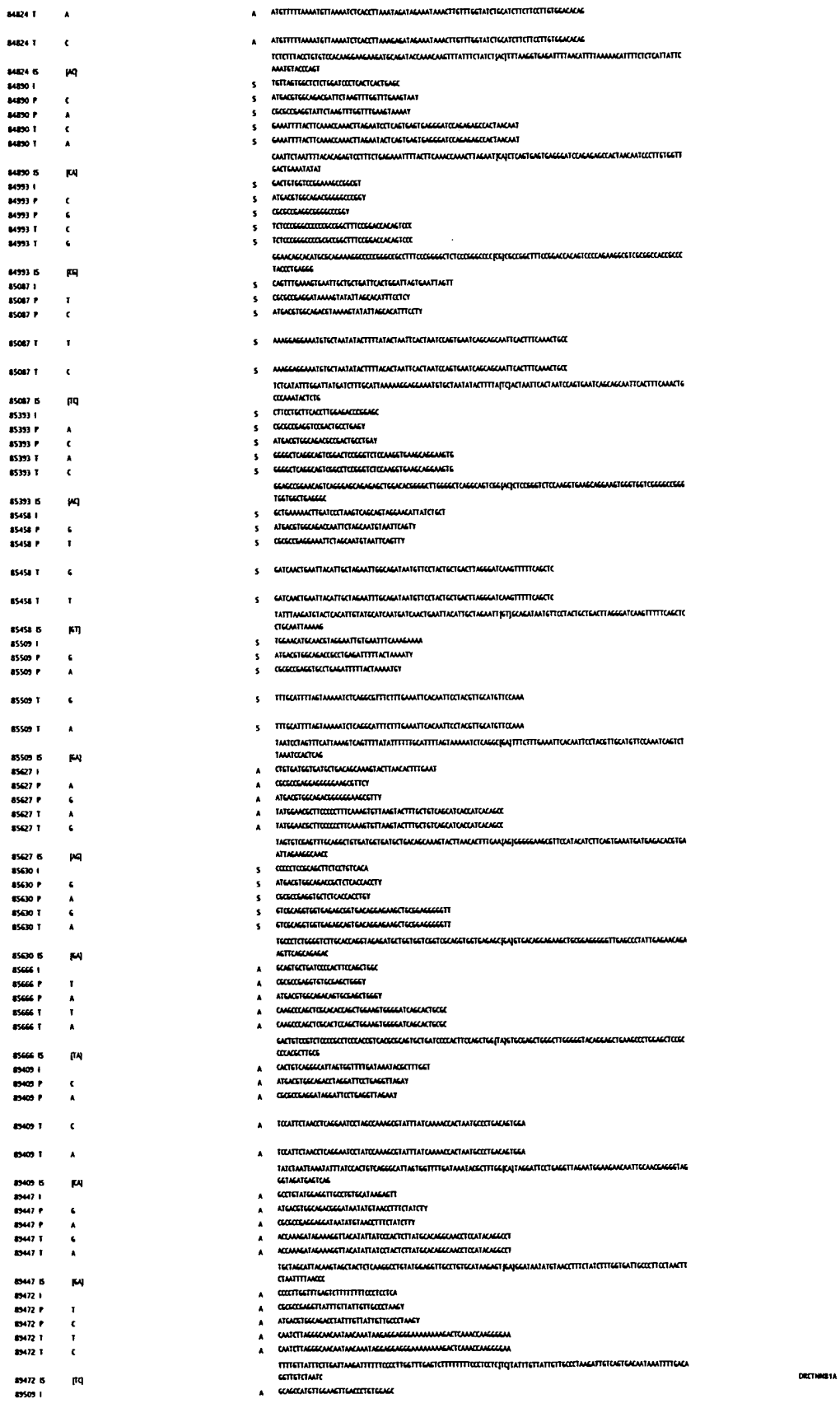
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84557 I          S  CACAATCAATTTCCCAGAGCCCAACTGTGCCCA
84557 P  G       S  ATGACGTGGCAGACCCTCCTTTCACCATCTATACY
84557 P  A       S  CGCGCCGAGGTCTCCTTTCACCATCTATACAY
84557 T  G       S  ATAATGTATAGATGGTGAAAGGAGGGGGCAGTTGGGCCTCTAGGAAATTGATTGTGAT
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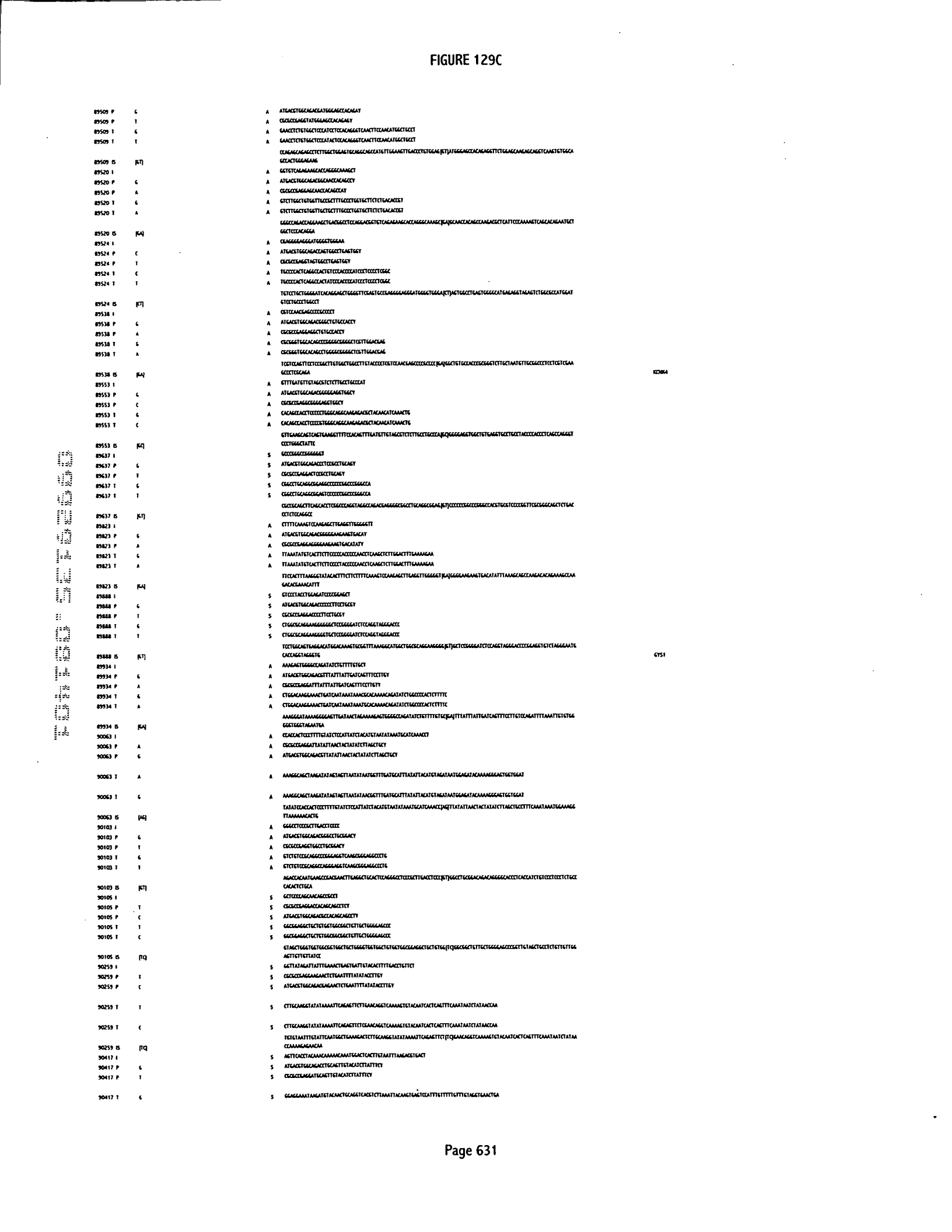
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                   TAGCTTTCATTTAG
84696 I          A  CATTTAGCAAACCAAATCAATATGTGGACCAAATTTTCAGGCCTT
84696 P  G       A  ATGACGTGGCAGACGTTAATATAAGGCTTTTCTCTTCTY
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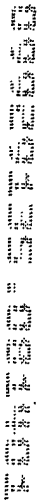
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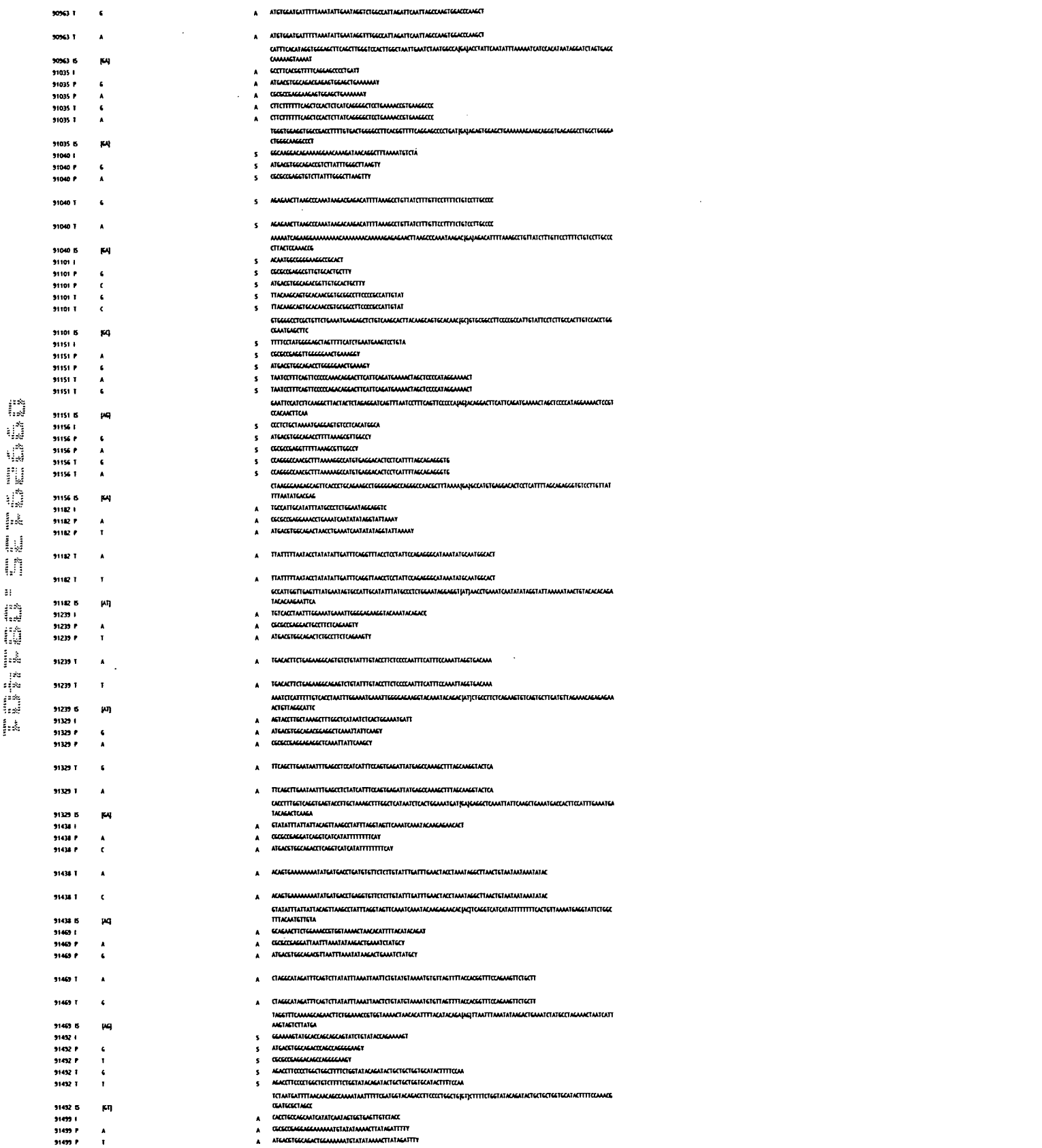
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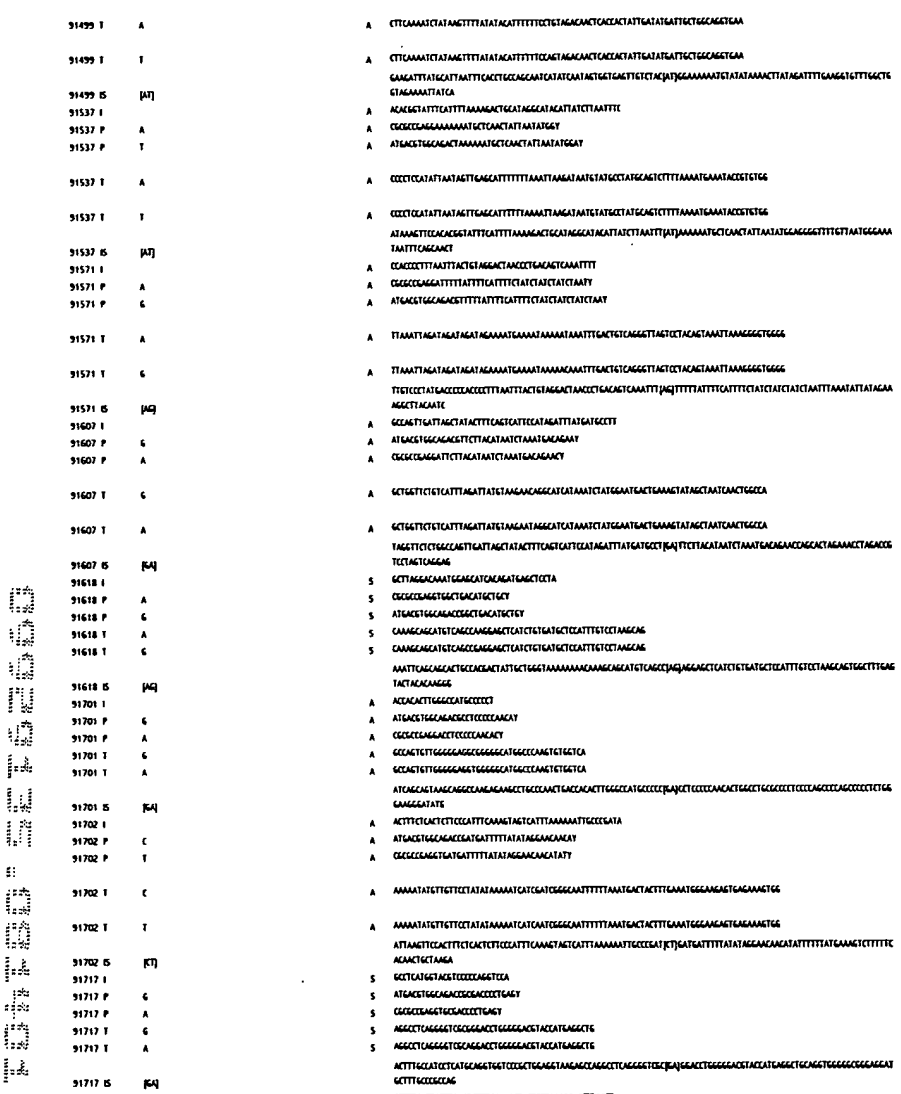
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                   AGAGAAAATAACT
84824 I          A  GTGTCCACAAGGAAGAAGATGCAGATACCAAACAAGTTTATTTCTATCTT
84824 P  A       A  CGCGCCGAGGATTTAAGGTGAGATTTTAACATTTTAAAAT
84824 P  C       A  ATGACGTGGCAGACCTTTAAGGTGAGATTTTAACATTTTAAAT
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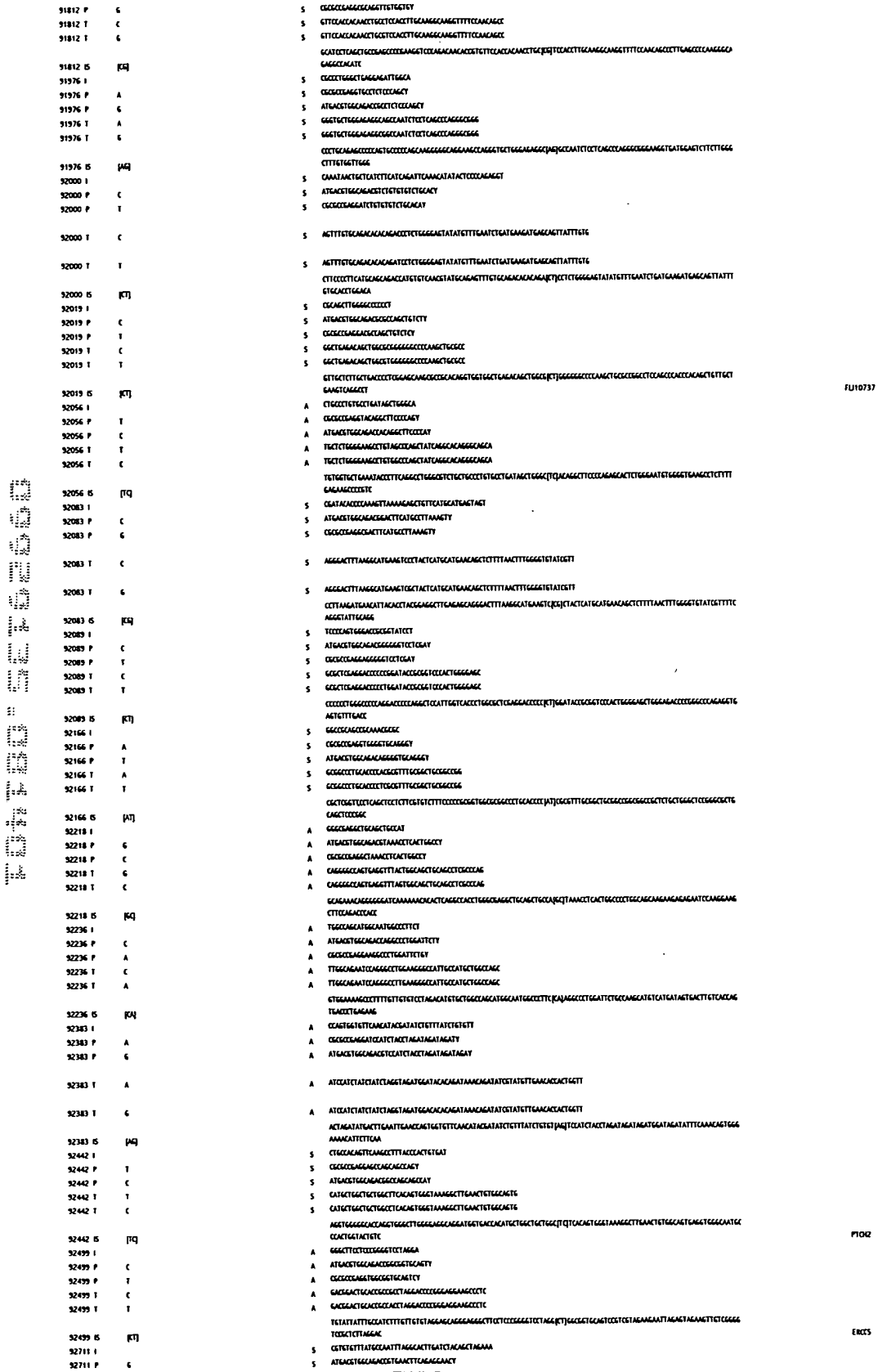












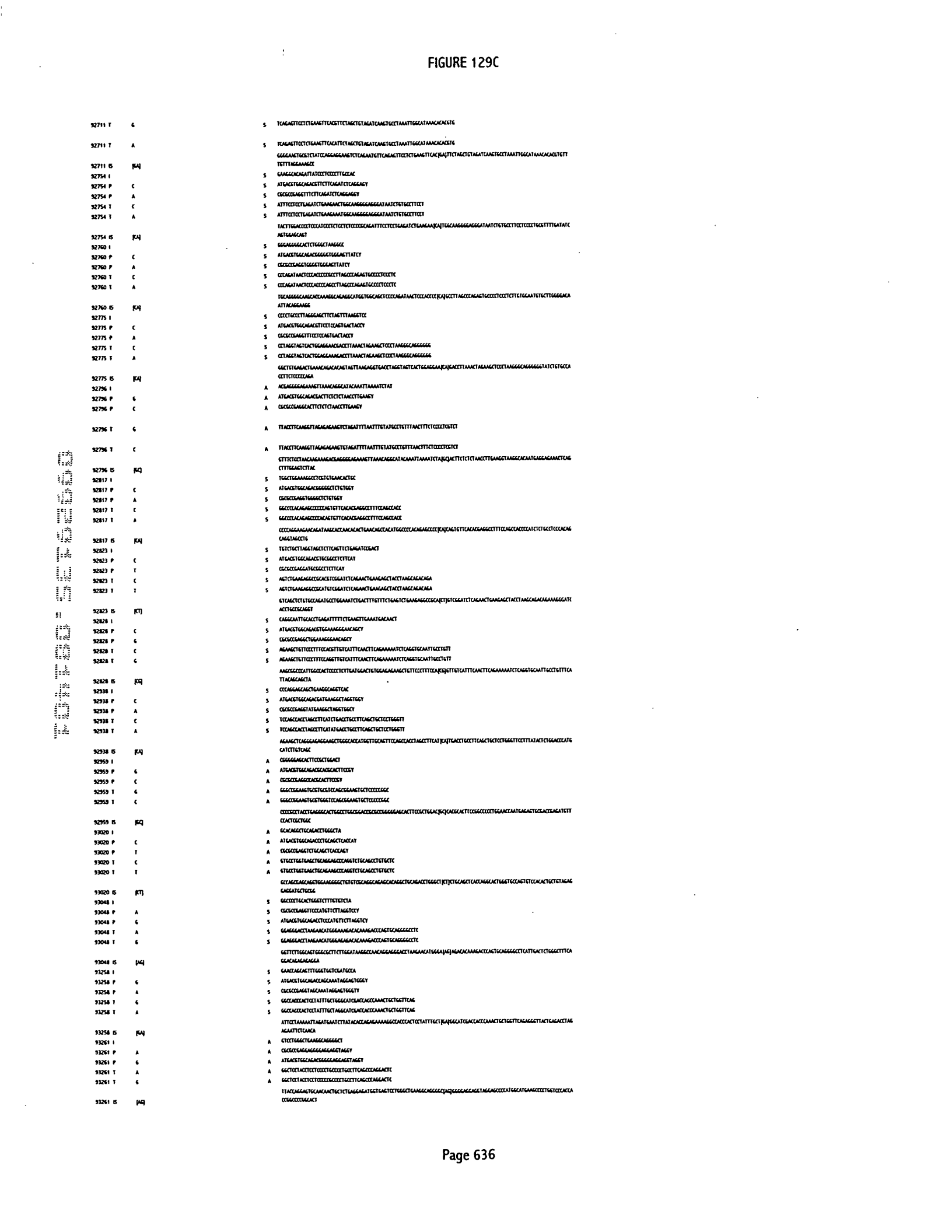


FIGURE 129C

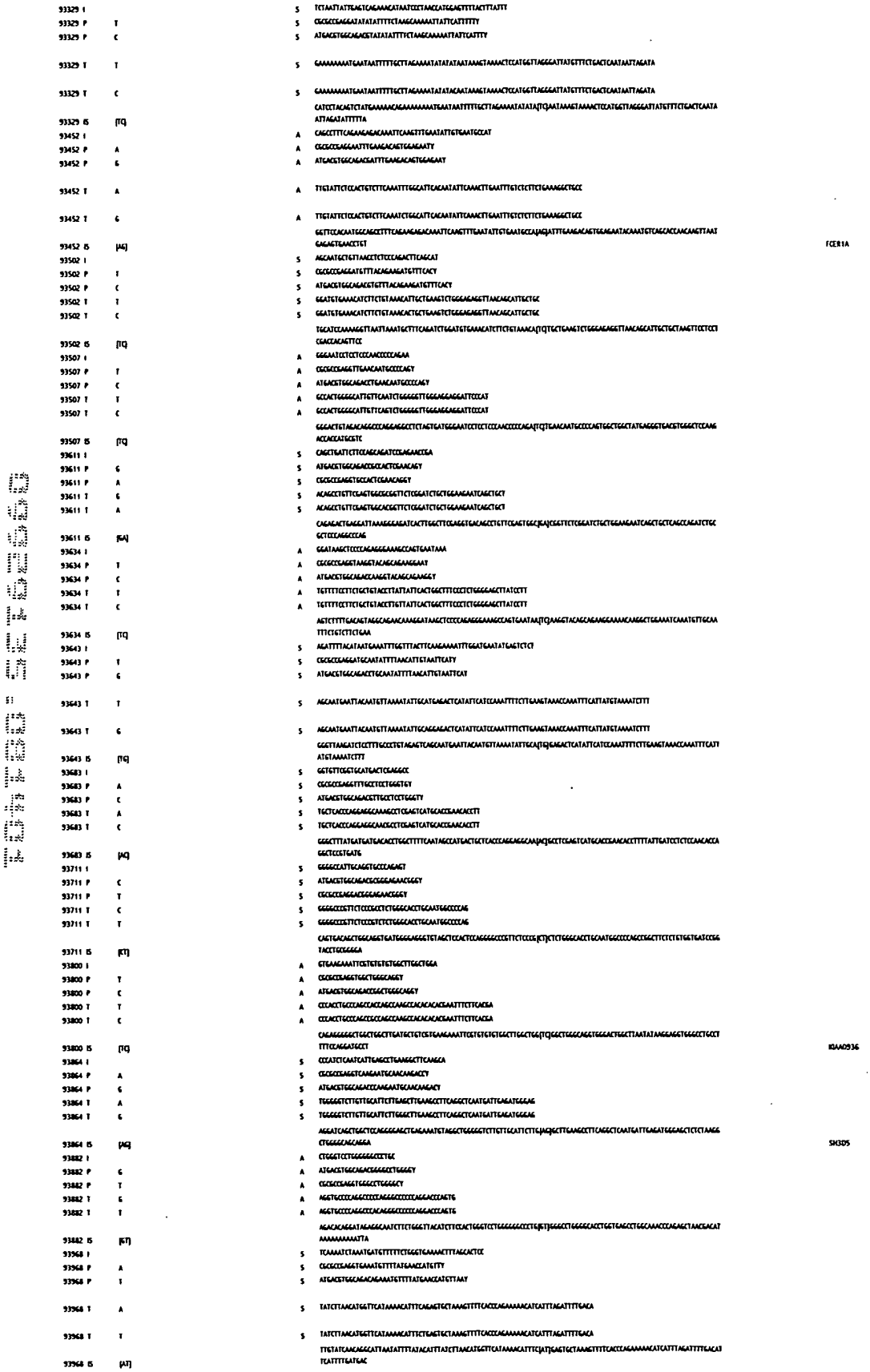
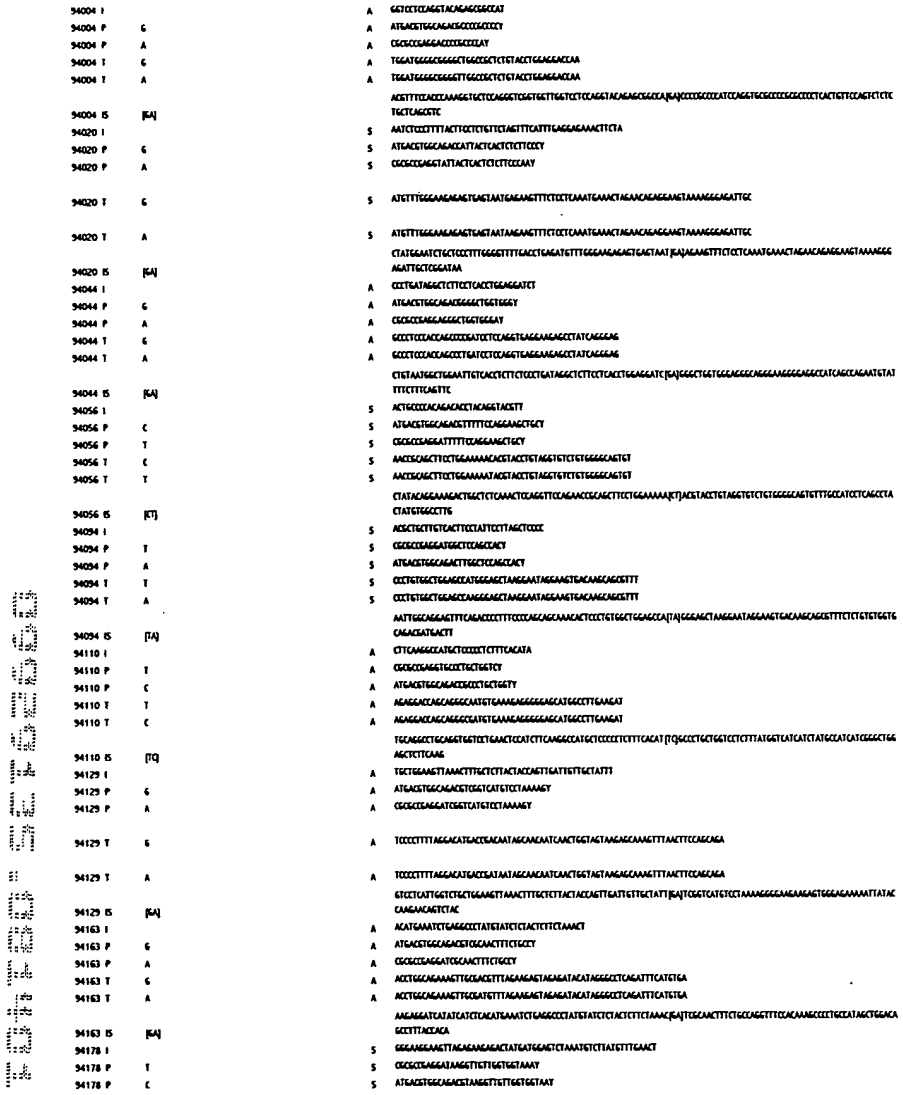
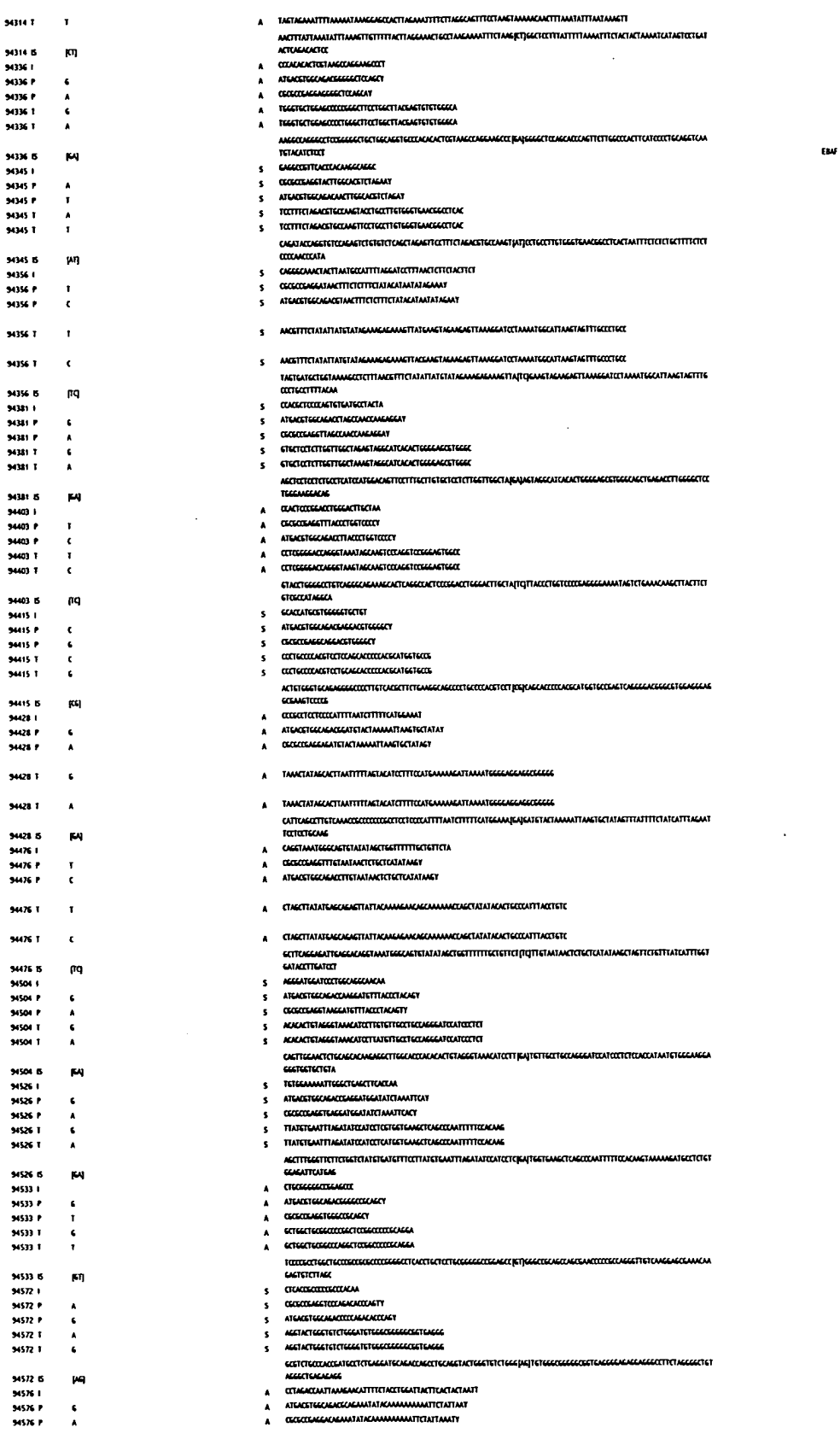
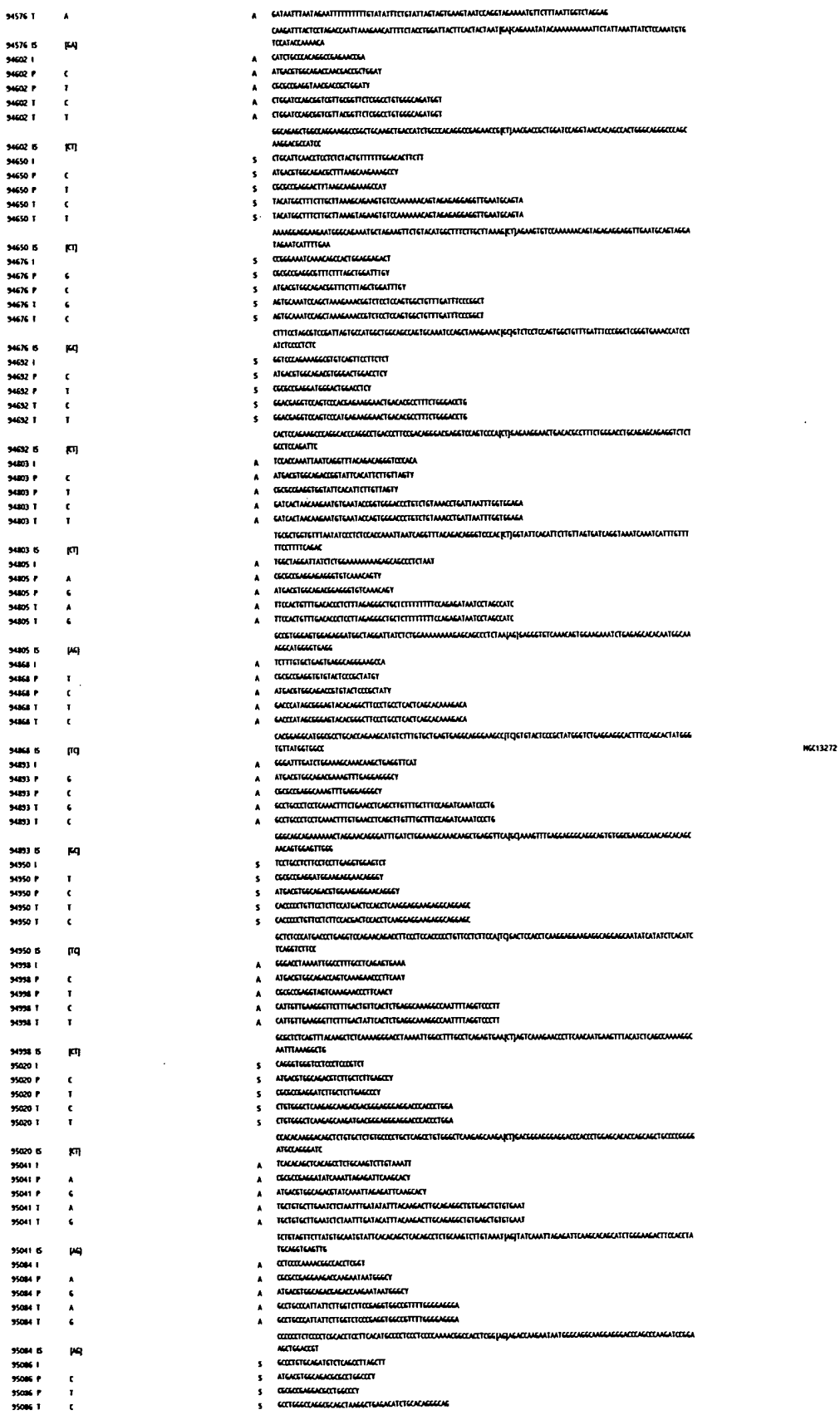


FIGURE 129C







Atty. Docket No. 10578.0001-00000

FIGURE 129C

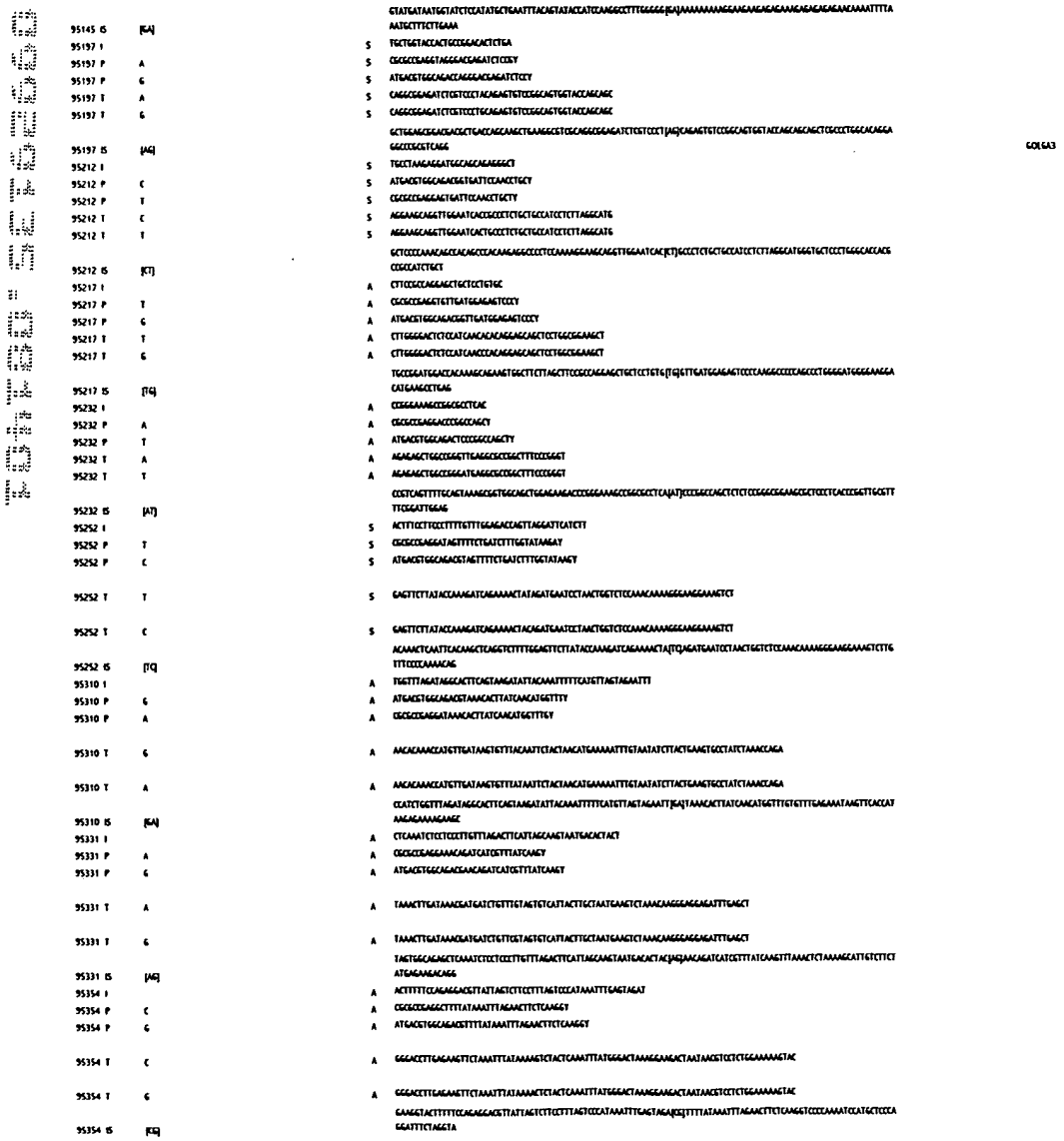


FIGURE 129C

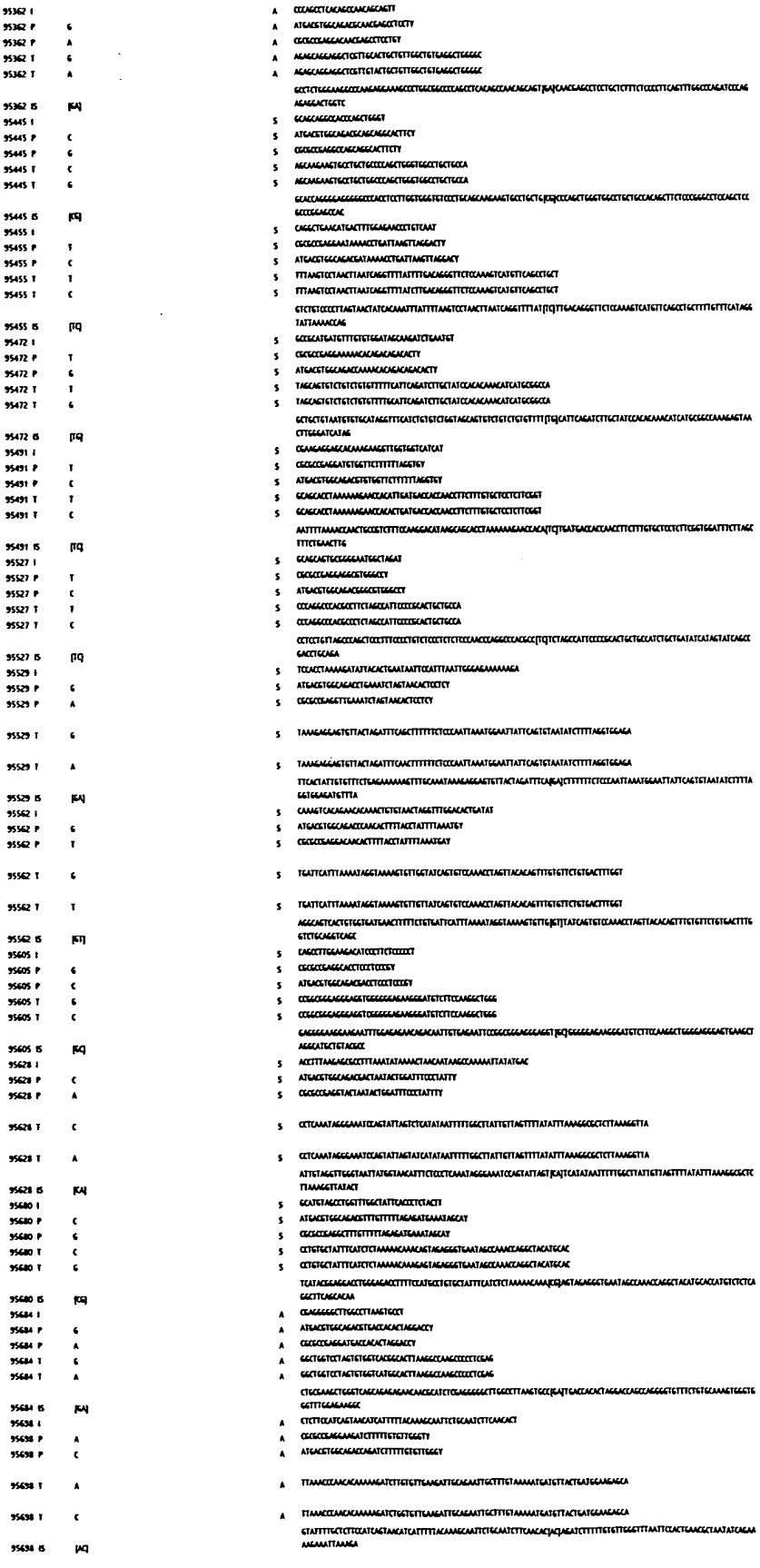
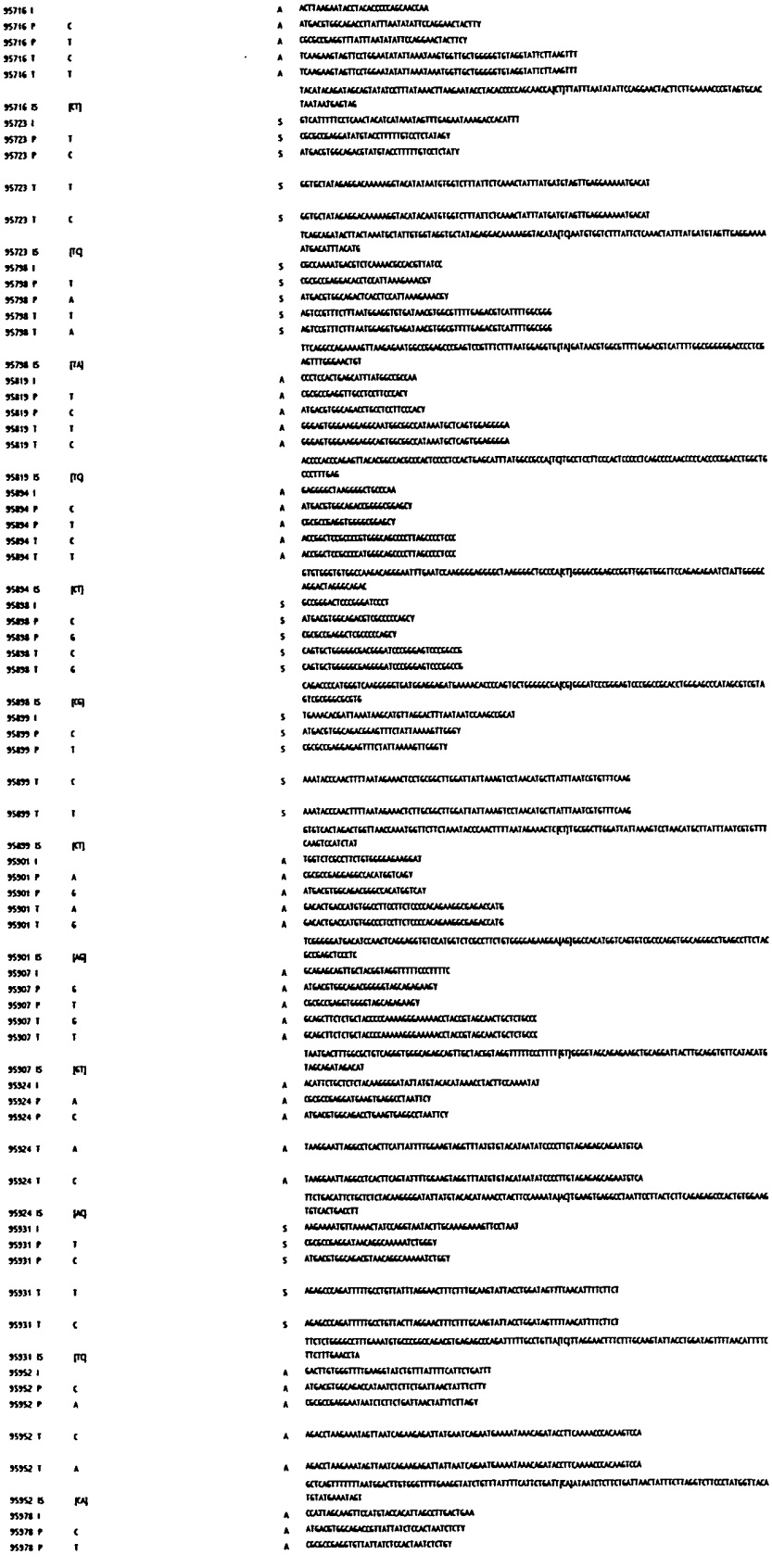


FIGURE 129C





95978 T	T	A	AATTCAGAGATTAGTGGAGATAATAACATCAGTCAAGGCTAATGTGGTACATGGAACTTGCTAATGGAG
95978 IS	(CT)		CTGAAACAGAATGTCAACTCCATTAGCAAGTTCCATGTACCACATTAGCTTGACTGA[CT]GTTATTATCTCCACTAATCTCTGAATTAAAGGAAAAGCCTCTAGAAT AAAAAGGGACACT
96002 I		S	TCGTCTAAAAACAAAGGAAAGTTTTTTTTAAACAGTGAAATCAATCTCACT
96002 P	T	S	CGCGCCGAGGACATTTTAAGTACTAATATTAATTAGAGTGTY
96002 P	G	S	ATGACGTGGCAGACCCATTTTAAGTACTAATATTAATTAGAGTGY
96002 T	T	S	TTGTACACTCTAATTAATATTAGTACTTAAAATGTGTGAGATTGATTTCACTGTTAAAAAAAACTTTCCTTTGTTTTTAGACGATA
96002 T	G	S	TTGTACACTCTAATTAATATTAGTACTTAAAATGGGTGAGATTGATTTCACTGTTAAAAAAAACTTTCCTTTGTTTTTAGACGATA
96002 IS	(TG)		TCACATTCTTAGATGCATATTTTAGTTGTACACTCTAATTAATATTAGTACTTAAAATG[TG]GTGAGATTGATTTCACTGTTAAAAAAAACTTTCCTTTGTTTTTAGA CGATATAAAAACA
96011 I		S	CCAATTCATATATCAAAACACAAATAATGCAGAACAAATTAGAGAAAAACTCCT
96011 P	C	S	ATGACGTGGCAGACAGGTCAGGCTCTCCACY
96011 P	T	S	CGCGCCGAGGAGTCAGGCTCTCCACY
96011 T	C	S	GTGAGTGGAGAGCTTGACCGAGTTTTCTCTAATTTGTTCTGCATTATTTGTGTTTTGATATATGAATTGGTG
96011 T	T	S	GTGAGTGGAGAGCTTGACTGGAGTTTTTCTCTAATTTGTTCTGCATTATTTGTGTTTTGATATATGAATTGGTG
96011 IS	(CT)		TCCCTGGCTGCTGGAGAGTTGAATGCCAGCCACCAGCCATGGGTGAGTGGAGAGCCTGAC[CT]GGAGTTTTTCTCTAATTTGTTCTGCATTATTTGTGTTTTGATATATG AATTGGTGTAAAT
96020 I		S	TGCAATGATGCAATGACATAGAAGCTGAAGGGC
96020 P	T	S	CGCGCCGAGGAGCAGAACAGTAATCTTTTY
96020 P	A	S	ATGACGTGGCAGACTGCCAGAACAGTAATCTTTTY
96020 T	T	S	CAAGAAAAGATTACTGTTCTGGCTCCCTTCAGCTTCTATGTCATTGCATCATTGCAAA
96020 T	A	S	CAAGAAAAGATTACTGTTCTGGCACCCTTCAGCTTCTATGTCATTGCATCATTGCAAA
96020 IS	(TA)		CCCACTGGCATTCTGATCTGTAGTTCTTTTCTATAAGCAAGAAAAGATTACTGTTCTGGC[TA]CCTTCAGCTTCTATGTCATTGCATCATTGCAAATCATAGTCAGTTAT AGCATCTAAAAG
96046 I		A	CGGTTACCATCTCACTCTCTCTCCACGTTATTTTAGGTTTTCTGTAAT
96046 P	A	A	CGCGCCGAGGATGAATATTTCCTCTCCCTGY
96046 P	G	A	ATGACGTGGCAGACGTGAATATTTCCTCTCCCTGY
96046 T	A	A	GACGCAGGGAGAGGAAATATTCATTTACAGAAAACGTAAAATAACGTGGAGAGAGAGTGAGATGGTAACCGGA
96046 T	G	A	GACGCAGGGAGAGGAAATATTCACTTACAGAAAACGTAAAATAACGTGGAGAGAGAGTGAGATGGTAACCGGA
96046 IS	(AG)		CATTTCTGAGTTCCGGTTACCATCTCACTCTCTCTCCACGTTATTTTAGGTTTTCTGTAA[AG]TGAATATTTCCTCTCCCTGCGTCAAGGTCACACAGTGGTAGAACAACT GCGACCACCAAC
96054 I		A	TCTTTAGAATTCTGTTTGATATAAACTAAATTGACCTCTTCACTGTGATTTTTTTCT
96054 P	G	A	ATGACGTGGCAGACGCAAGCCCTTTTCCATTAY
96054 P	A	A	CGCGCCGAGGAGAAGCCCTTTCCATTACY
96054 T	G	A	CTGGGTAATGGAAAAGGGCTTCCCAAAAAAATCACAGTGAAGAGGTCAATTTAGTTTATATCAAACAGAATTCTAAAGAGA
96054 T	A	A	CTGGGTAATGGAAAAGGGCTTCTCAAAAAAATCACAGTGAAGAGGTCAATTTAGTTTATATCAAACAGAATTCTAAAGAGA
96054 IS	(GA)		CCTCTCTTTACAATCTGTTTGATATAAACTAAATTGACCTCTTCACTGTGATTTTTTTC[GA]GAAGCCCTTTTCCAATACCCAGACATGCAGCCAAGGGACAATACAGG AGTTTACTAGCAA
96611 I		S	GCCTAAAGGAAACAACACACTCCCCTTCTTACCCCT
96611 P	C	S	ATGACGTGGCAGACGGTGTGTGGGCAGAY
96611 P	T	S	CGCGCCGAGGAGTGTGTGGGCAGACY
96611 T	C	S	CTTGGTCTGCCCACACACCGGGGTAAGAAGGGGAGTGTGTGTTCCTTTAGGCAG
96611 T	T	S	CTTGGTCTGCCCACACACTGGGGTAAGAAGGGGAGTGTGTGTTCCTTTAGGCAG
96611 IS	(CT)		ATATGAGACATGTAGAGAAGTGGCTCATAGAGCCACCCATTCCTTGGTCTGCCCACACAC[CT]GGGGTAAGAAGGGGAGTGTGTGTTCCTTTAGGCAGAACTCCAGAGA AGGGCGAGCAGCTT
96629 I		A	CACCCTGGTCCCAGAGCCCAGATGTT
96629 P	A	A	CGCGCCGAGGAGGGATCAGGGTGGY
96629 P	G	A	ATGACGTGGCAGACGGGGATCAGGGTGGY
96629 T	A	A	ACCCCCACCCTGATCCCTACATCTGGGCTCTGGGACCAGGGTGGG
96629 T	G	A	ACCCCCACCCTGATCCCCACATCTGGGCTCTGGGACCAGGGTGGG
96629 IS	(AG)		CCCCAGACTCCAGGCTCCCCCATCCACGCTTCCCCCACCCTGGTCCCCAGACCCAGATGT[AG]GGGATCAGGGTGGGGGTGGGGAGGGATGGCCAGGGAGAACCAGGAAG GGTGGGGGAAATG
96653 I		S	GGGGTTCAGCCTGGTGCCTCACCT
96653 P	T	S	CGCGCCGAGGAGCCACTCTTCCTTAGATY
96653 P	C	S	ATGACGTGGCAGACGGCCACTCTTCCTTAGAY
96653 T	T	S	GTCCATCTAAGGAAGAGTGGCTGGTGAGGCACCAGGCTGAACCCCAG
96653 T	C	S	GTCCATCTAAGGAAGAGTGGCCGGTGAGGCACCAGGCTGAACCCCAG
96653 IS	(TC)		GCCTCCCGCCCAAGGATCTCTCAGGTTCCTATCTCCCTGTCCATCTAAGGAAGAGTGGC[TC]GGTGAGGCACCAGGCTGAACCCCAGGAGCCCCGGTCCCCCAAGTGTCT CTTGGCCCTCAG
96675 I		S	CACCGCCAGTCCATTCACTGGGCCT
96675 P	C	S	ATGACGTGGCAGACGCCCTTTCCCCAGCY
96675 P	T	S	CGCGCCGAGGAGCCCTTTCCCCAGCY
96675 T	C	S	AAGCGCTGGGGAAAGGGCCGCCCCAGTGAATGGACTGGCGGCTGTT
96675 T	T	S	AAGCGCTGGGGAAAGGGTGGCCCAGTGAATGGACTGGCGGCTGTT
96675 IS	(CT)		GCACAGTGCCGGGCTGCAGGACTGACCAGCCTGGGGCTGGAGGGAAGCGCTGGGGAAAGGG[CT]GGCCCAGTGAATGGACTGGCGGTGTTTGGTGCAGGGTTCAAGCTCC AGCTCTGAGCCCA
96676 I		A	GGGAGGCTGGGAAAAGAGCTGGCTCTTA
96676 P	T	A	CGCGCCGAGGTTCTCTCTCCTCTTCTAGGY
96676 P	C	A	ATGACGTGGCAGACCTCTCTCTCCTCTTCTAGGY
96676 T	T	A	AGAGCCTAGAAGAGGAGAGAGAAAAGAGCCAGCTCTTTTCCCAGCCTCCCCT
96676 T	C	A	AGACCTAGAAGAGGAGAGAGAAAAGAGCCAGCTCTTTTCCCAGCCTCCCCT
96676 IS	(TC)		GTTCAAGCTCCAGCTCTGAGGCCCAGAGCCAAGGGAAGGCTGGGAAAAGCAGCTGGCTCTT[TC]TCTCCTCCTCTTCTAGGCTCTGTGGTCATCCCCTCTCCCTGCTGCAT GTTCTTGTTTC
96689 I		A	TGTTAGGTCCTGCTTTTTTCAATATATGTTAGTTCAAGGTATATTTGCT
96689 P	G	A	ATGACGTGGCAGACGCAAGATTTCTTTGTGATCCY
96689 P	A	A	CGCGCCGAGGACAAGATTTCTTTGTGATCCCY
96689 T	G	A	GGGTGGGATCACAAAGAAATCTTGCGCAAATATACCTTGAACTAACATATATTGAAAAAAGCAGGACCTAACATT
96689 T	A	A	GGGTGGGATCACAAAGAAATCTTGTGCAAATATACCTTGAACTAACATATATTGAAAAAAGCAGGACCTAACATT
96689 IS	(GA)		GTGAGTTTGAAATGTTAGGTCCTGCTTTTTTCAATATATGTTAGTTCAAGGTATATTTGC[GA]CAAGATTTCTTTGTGATCCCACCCAACCCCTCTTTATCATCTTTGAA AGCCCCAGCCTGG
96700 I		S	GCAAAAGGAAAGAACTGATATTGTATGGTGATTCTGTGCTTTTCCTTTTTTATTT
96700 P	T	S	CGCGCCGAGGATTTTCTCTCTCCTTTTTTGGGY
96700 P	C	S	ATGACGTGGCAGACGTTTCTCTCTCCTTTTTTGGGY
96700 T	T	S	TCCCCCCAAAAAAGGAAGAAGAAAAATAATAAAAAGGAAAAGCACAGAATCACCATACAATATCAGTCTCTTCCTTTTGCCT
96700 T	C	S	TCCCCCCAAAAAAGGAAGAAGAAAACAATAAAAAGGAAAAGCACAGAATCACCATACAATATCAGTCTCTTCCTTTTGCCT

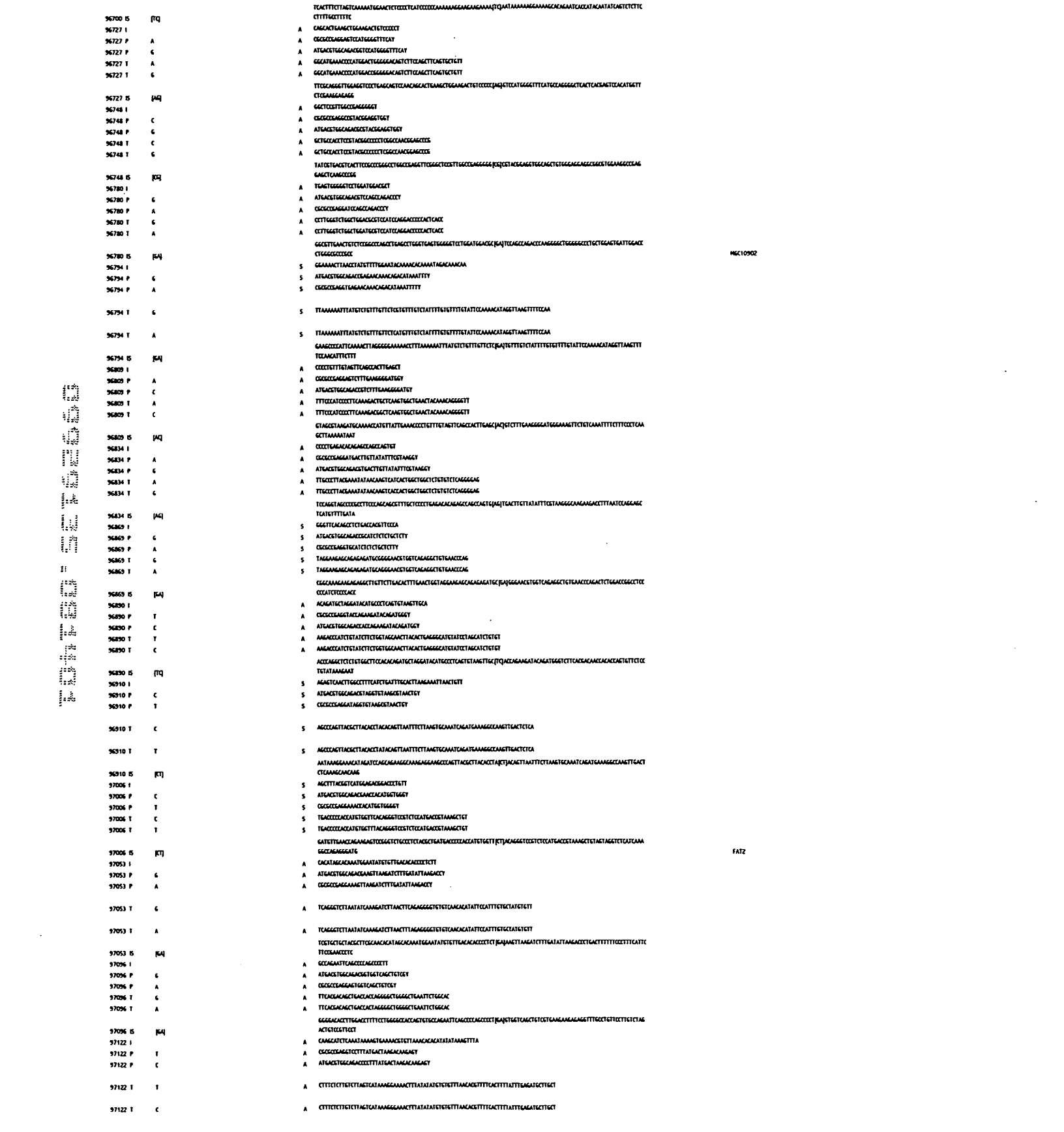


FIGURE 129C

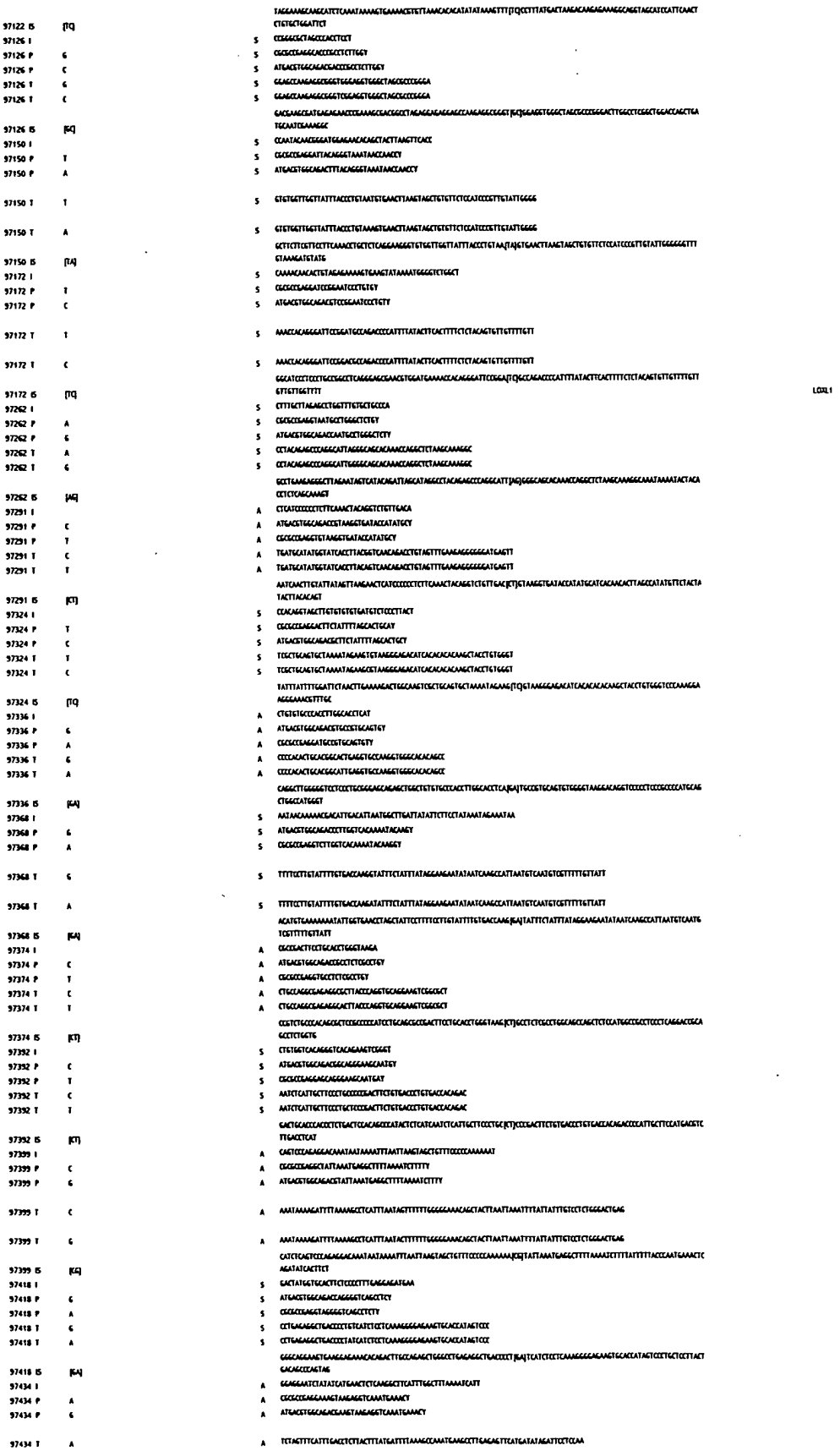


FIGURE 129C

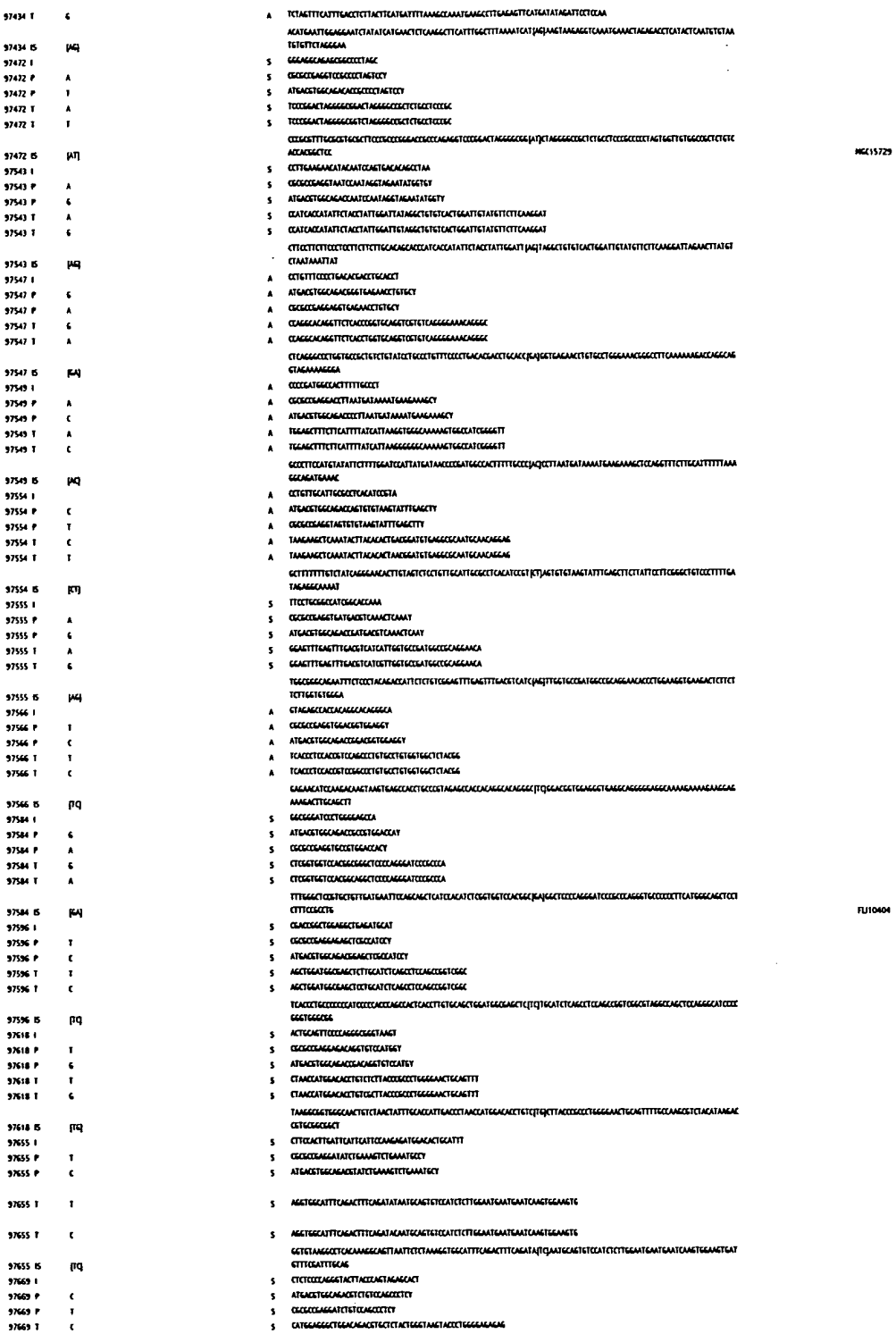
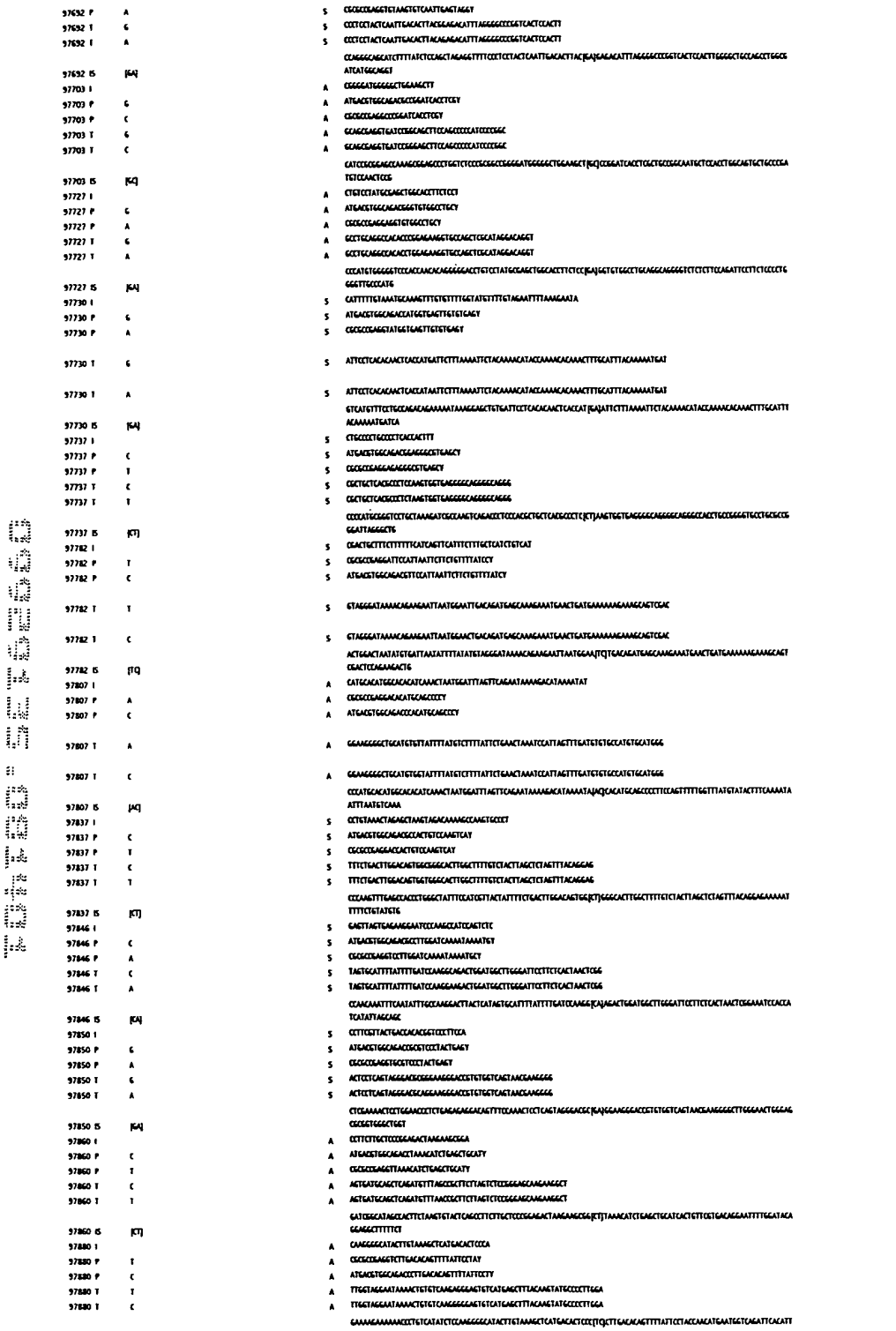
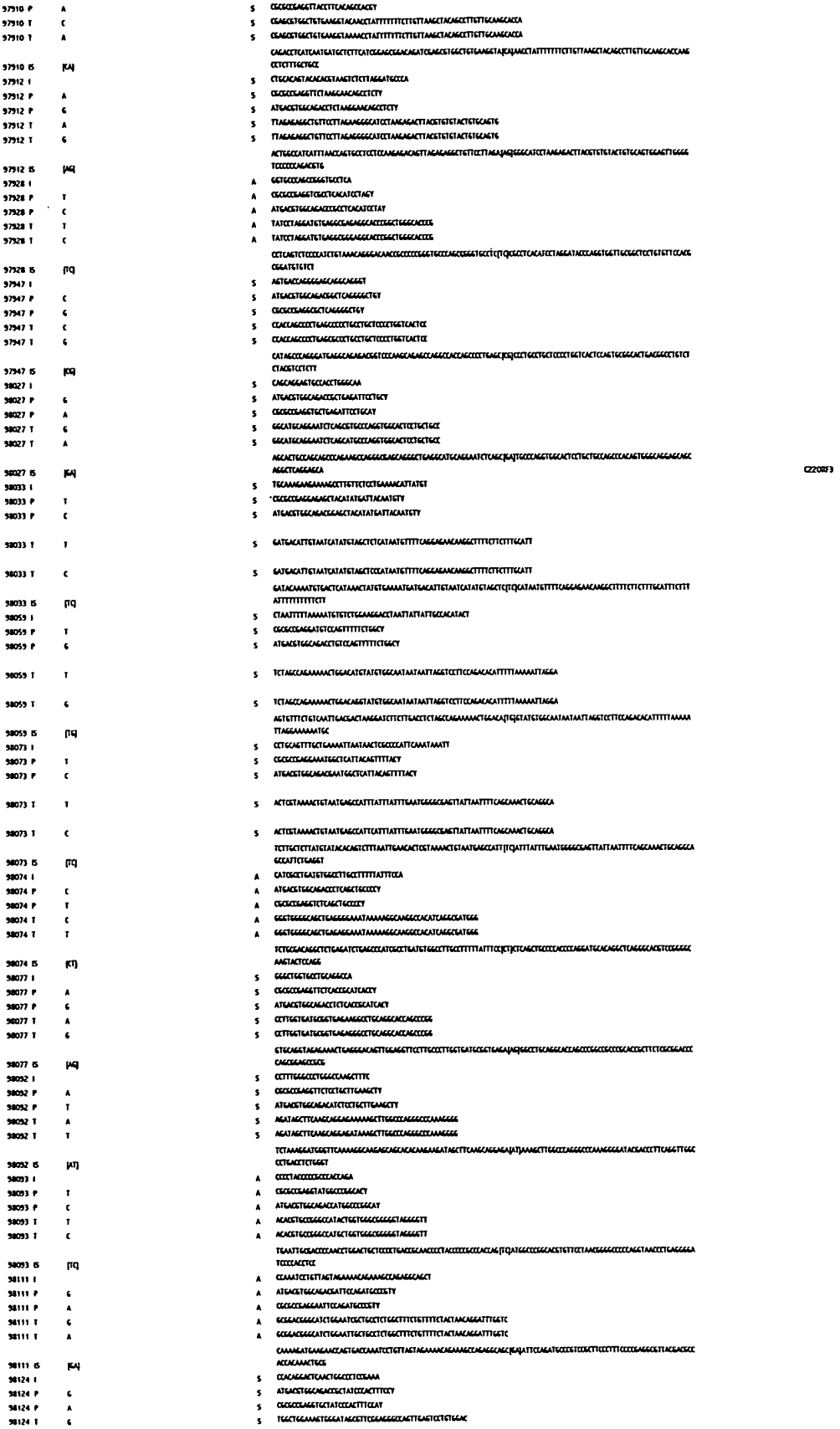
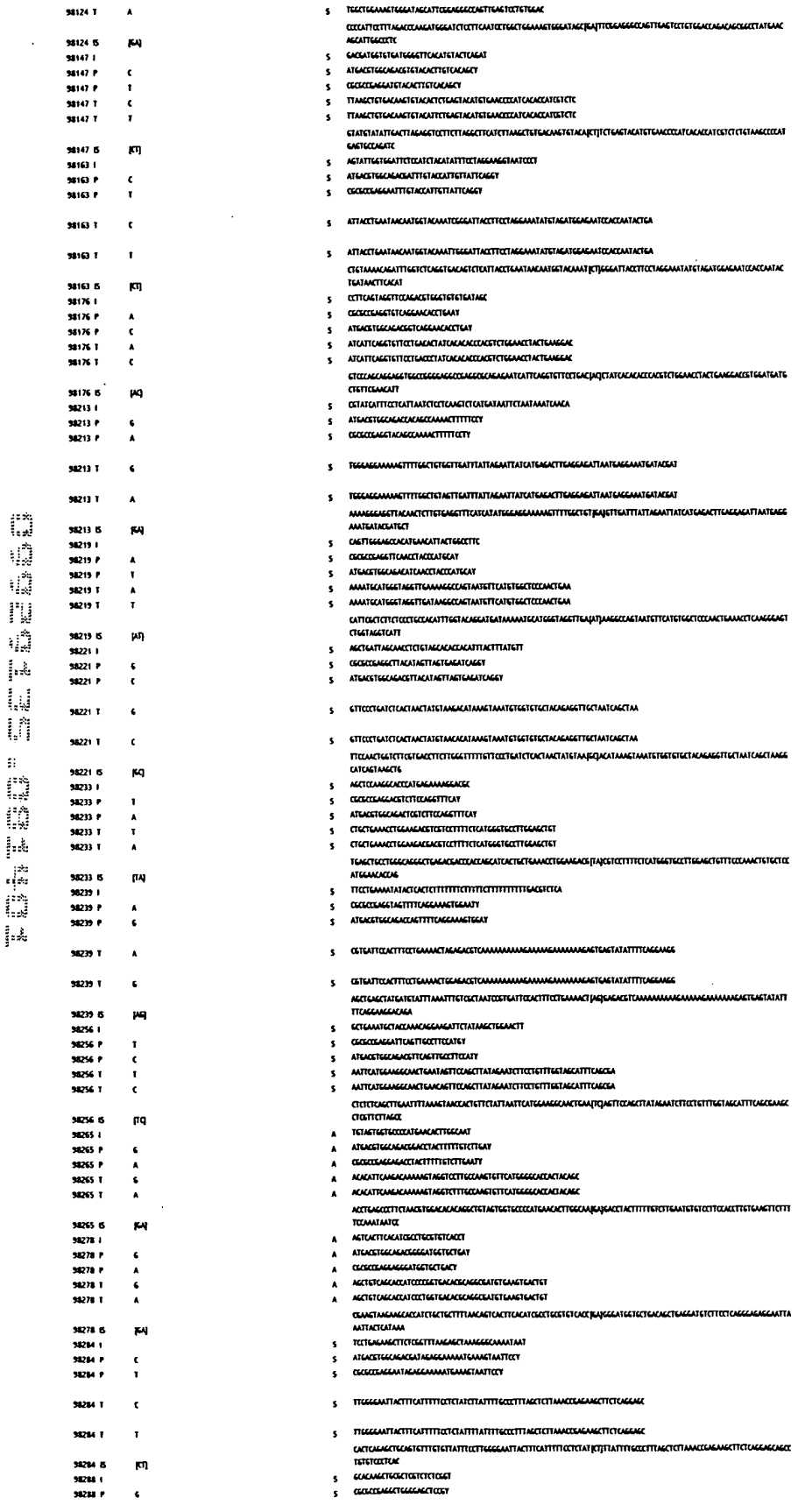


FIGURE 129C





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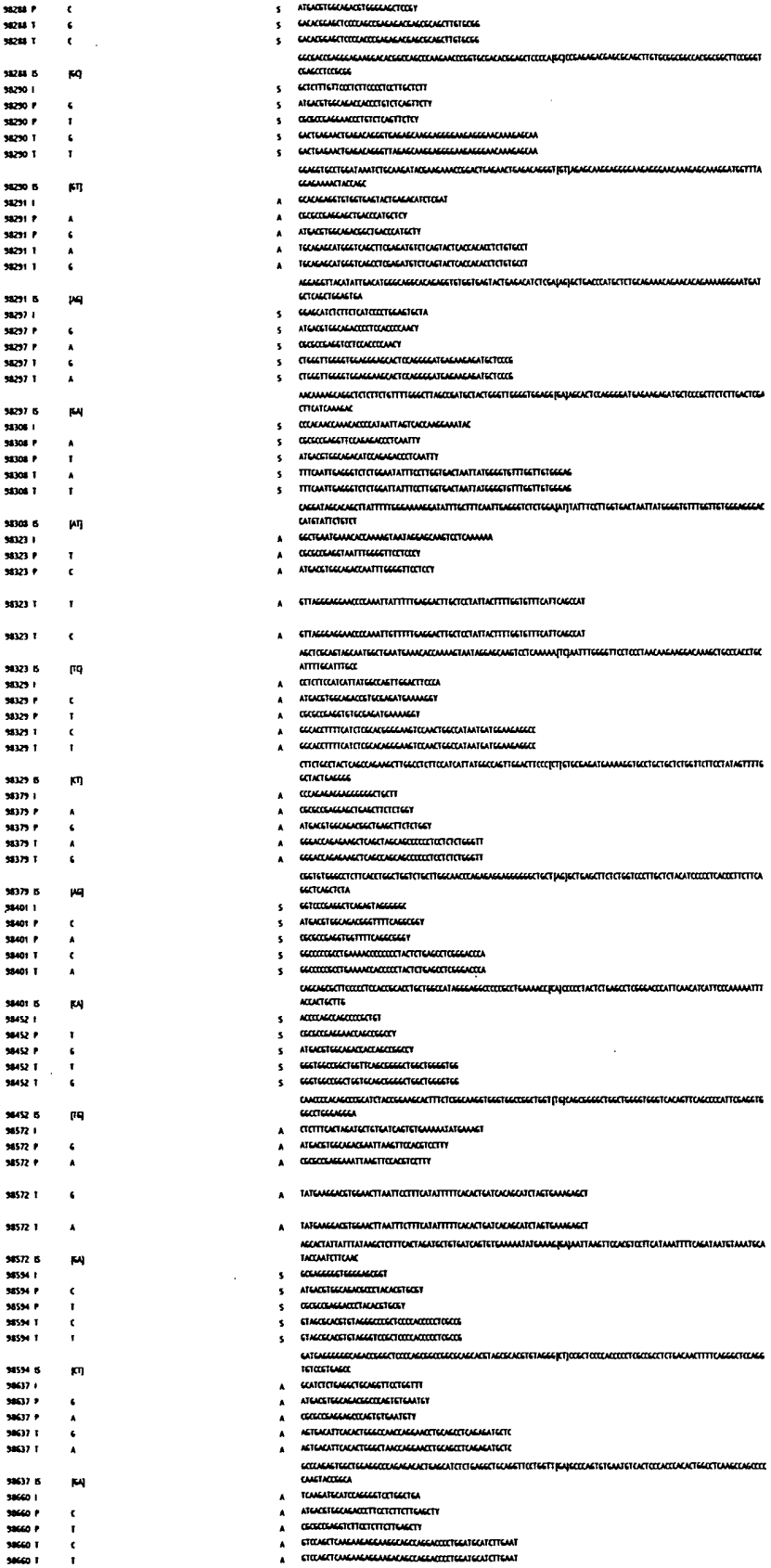


FIGURE 129C

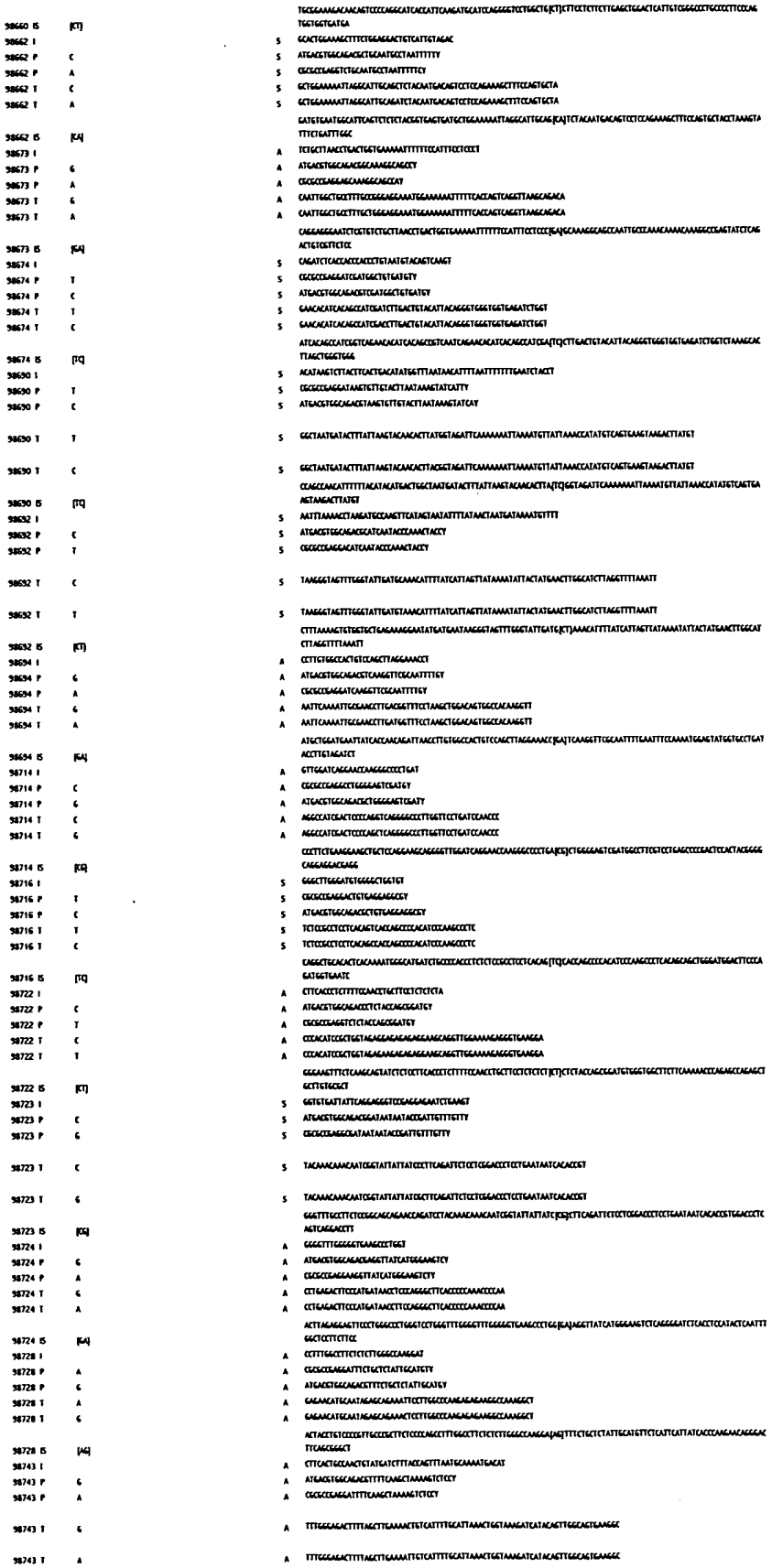


FIGURE 129C

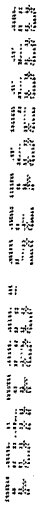




FIGURE 129C

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99692 I
99692 P  C
99692 P  T
99692 T  C
99692 T  T

99692 IS [CT]

99693 I
99693 P  G
99693 P  T
99693 T  G
99693 T  T

99693 IS [GT]

99698 I
99698 P  G
99698 P  A
99698 T  G
99698 T  A

99698 IS [GA]

99719 I
99719 P  C
99719 P  T
99719 T  C
99719 T  T

99719 IS [CT]

99731 I
99731 P  G
99731 P  A

99731 T  G

99731 T  A

99731 IS [GA]

99775 I
99775 P  C
99775 P  T
99775 T  C
99775 T  T

99775 IS [CT]

99776 I
99776 P  A
99776 P  G
99776 T  A
99776 T  G

99776 IS [AG]

99792 I
99792 P  A
99792 P  C

99792 T  A

99792 T  C

99792 IS [AG]

99809 I
99809 P  C
99809 P  T
99809 T  C
99809 T  T

99809 IS [CT]

99844 I
99844 P  C
99844 P  T
99844 T  C
99844 T  T

99844 IS [CT]

99868 I
99868 P  G
99868 P  A
99868 T  G
99868 T  A

99868 IS [GA]

99881 I
99881 P  A
99881 P  G
99881 T  A
99881 T  G

99881 IS [AG]

99906 I
99906 P  G
99906 P  A
99906 T  G
99906 T  A

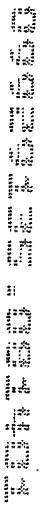
99906 IS [GA]

99916 I
99916 P  G
99916 P  A
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FIGURE 129C







99916 T	G	S	TTTCATCACTGCTGCTTTGAATGGGGTTTTGAGACAAGTCGTAGCAGAAGTATTCAGATCCTTTGAAC	
99916 T	A	S	TTTCATCACTGCTGCTTTGAATAGGGTTTTGAGACAAGTCGTAGCAGAAGTATTCAGATCCTTTGAAC	
99916 IS	[GA]		CAGTCCATTCCTCTGAAGGGTTTTAAATGACACAGATTATTTCATCACTGCTGCTTTGAAT[GA]GGGTTTTGAGACAAGTCGTAGCAGAAGTATTCAGATCCTTTGAACG TGGCAATATATTCT	MRUH1
99925 I		A	GTTTTGAGCCTCTGCACAAATTAGACTCTTAAGATCTCATTTCTCTTTTCAT	
99925 P	C	A	CGCGCCAGGCCACATCTTGTTAGCGAGY	
99925 P	G	A	ATGACGTGGCAGACGCACATCTTGTTAGCGAY	
99925 T	C	A	GAATCTCGCTAACAAGATGTGCTGAAAAGAGAAATGAGATCTTAAGAGTCTAATTTGTGCAGAGGCTCAAAACTC	
99925 T	G	A	GAATCTCGCTAACAAGATGTGCTGAAAAGAGAAATGAGATCTTAAGAGTCTAATTTGTGCAGAGGCTCAAAACTC	
99925 IS	[CG]		TCAGTTTGAGTTTTGAGCCTCTGCACAAATTAGACTCTTAAGATCTCATTTCTCTTTTCA[GC]CACATCTTGTTAGCGAGATTCTTACATTCAAAAAGAGCTATACGGTT TACTGTGTTAGTG	
99928 I		A	TGTCCTCTCAGCTGGGATCCAGTTCCCTTT	
99928 P	C	A	ATGACGTGGCAGACCAAAGCACCTTCTCCCY	
99928 P	A	A	CGCGCCGAGGAAAAGCACCTTCTCCCTY	
99928 T	C	A	ATGTAGGGCAGAAGCTGCTTTGAAGGGAACTGGATCCCAGCTGAGAGGACACT	
99928 T	A	A	ATGTAGGGCAGAAGCTGCTTTTAAGGGAACTGGATCCCAGCTGAGAGGACACT	
99928 IS	[CA]		GTTTGCCTAGAGAGCCCTAGTGTTAGCTTAGTGTCCTCTCAGCTGGGATCCAGTTCCCTT[CA]AAAGCACCTTCTCCCTACATTCCTGTGGGAATGCCCTGTAGGAAGAGG GAATTTTCTGTG	
99936 I		S	GCTCAATAACTCTTTGTGGTTGGTAGTTTTTGAAATAAATGGGGCAATT	
99936 P	T	S	CGCGCCGAGGAAAACACATAAATACAGAAGGAGT	
99936 P	C	S	ATGACGTGGCAGACGAAACACATAAATACAGAAGGAGT	
99936 T	T	S	CTACCTCCTTCTGTATTTATGTGTTTTATTGCCCCATTTATTTCAAAACTACCAACCACAAAAGAGTTATTGAGCTC	
99936 T	C	S	CTACCTCCTTCTGTATTTATGTGTTTCATTGCCCCATTTATTTCAAAACTACCAACCACAAAAGAGTTATTGAGCTC	
99936 IS	[TC]		GCATATTGCATAGCGTATTGGGAATTAAGAGCAGCTACCTCCTTCTGTATTTATGTGTTT[TC]ATTGCCCCATTTATTTCAAAACTACCAACCACAAAAGAGTTATTGA GCTCATCATTTCC	
99940 I		S	GCTCATGGATCATCTACGACCCTGCGCTTT	
99940 P	T	S	CGCGCCGAGGAAAAGCTTTCTGAGCCY	
99940 P	G	S	ATGACGTGGCAGACGAAAGCTTTCTGAGCCY	
99940 T	T	S	GGTTGCTCAGAAAGCTTTCTAAGCGCAGGGTCGTAGATGATCCATGAGCGG	
99940 T	G	S	GGTTGCCTCAGAAAGCTTTCGAAGCGCAGGGTCGTAGATGATCCATGAGCGG	
99940 IS	[TG]		GAATGAACATTGAAGTCTGAAGTTGAAGCTCCAGTACCAGGGTTGCCTCAGAAAGCTTTC[TG]AAGCGCAGGGTCGTAGATGATCCATGAGCGGTGCTGTGGTCCCCAG TTAGCCCCTCATCT	
99979 I		S	GAGTCTCAGAGTTGTATTAAGTGTATATTGCATGACTGATTGAAAAAAAATAT	
99979 P	C	S	ATGACGTGGCAGACGAGAAAATTCAGTCACCAGAY	
99979 P	T	S	CGCGCCGAGGAAGAAAATTCAGTCACCAGATY	
99979 T	C	S	AAACATCTGGTGACTGAATTTTCTCTATTTTTTTTCAATCAGTCATGCAATATACACTTAATACAACTCTGAGACTCCT	
99979 T	T	S	AAACATCTGGTGACTGAATTTTCTTTATTTTTTTTCAATCAGTCATGCAATATACACTTAATACAACTCTGAGACTCCT	
99979 IS	[CT]		TCTGTTAACAAAAAACTATTTATTGTATAGACAAAAAACATCTGGTGACTGAATTTTCT[CT]TATTTTTTTTCAATCAGTCATGCAATATACACTTAATACAACTCTGA GACTCCTTGATAA	
100000 I		A	GCTGAGAATTCAGCTTTCCTGATCCCTGTTGGTCT	
100000 P	G	A	ATGACGTGGCAGACGGTAATCCTTTCCTCTGTACY	
100000 P	A	A	CGCGCCGAGGAGTAATCCTTTCCTCTGTACCY	
100000 T	G	A	GCCAGGTACAGAGCAAAGGATTACTGACCAACAGGGATCAGGAAAGCTGAATTCTCAGCCC	
100000 T	A	A	GCCAGGTACAGAGCAAAGGATTACTGACCAACAGGGATCAGGAAAGCTGAATTCTCAGCCC	
100000 IS	[GA]		AAGCCTCCAGTGATGCTTCCTCAAGGCTGAGAATTCAGCTTTCCTGATCCCTGTTGGTC[GA]GTAATCCTTTCCTCTGTACCTGGCTACACTGGGCCAAACTAGGCCAT GACTTTTGGTTC	
100008 I		A	CCTGTCTCTGTCCCACGTGTGGTCCCA	
100008 P	T	A	CGCGCCCAGGTTTCCCAGCTCTGCCY	
100008 P	C	A	ATGACGTGGCAGAGCTTCCCAGCTCTGCCY	
100008 T	T	A	GACTGGCAGAGCTGGGAAAGGCAACACAGTGGGACAGAGACAGCA	
100008 T	C	A	GACTGGCAGAGCTGGGAAAGGGAACACAGTGGGACAGAGACAGCA	
100008 IS	[TC]		AAGGGGGTTCTTAGATGGGAAGGGTGAGCAGGTGCCTGTCTCTGTCCCACGTGTGGTCCC[TC]TTCCCAGCTCTGCCAGTCCTAGCCCTGGAGTGCCCAGGAGGCTGGCA CTCTTAGCACCCC	
100033 I		A	GCCACGTGGGGACCCTTGTGGAAATC	
100033 P	T	A	CGCGCCCAGGTTCTCCCTGCTTGGTGCY	
100033 P	A	A	ATGACGTGGCAGACATCTCCTGCTTGGTGCY	
100033 T	T	A	GGAGGCACCAAGCAGGAAGAAATTTCCACAAGGGTCCCCACGTGGCCC	
100033 T	A	A	GGAGGCACCAAGCAGGAGATATTTCCACAAGGGTCCCCACGTGGCCC	
100033 IS	[TA]		CACCCCTTTCCCTCTCTGTCTGCCCTGGAGGGTGGGCCACGTGGGGACCCTTGTGGAAAT[TA]TCTCCTGCTTGGTGCCTCTTTGCACACACATGGGGAAGCCATCAGGG CTCCTTGCAGAC	
100060 I		A	GGACCCGGGATCCCCGGATCAGATCT	
100060 P	A	A	CGCGCCGAGGACTGGGGTCTTCTGTGY	
100060 P	G	A	ATGACGTGGCAGACGCTGGGGTCTTCTGTY	
100060 T	A	A	CGGCCACAGAAGACCCCAGTGATCTGATCCCGGGATCCCGGCTCCAA	
100060 T	G	A	CGGCCACAGAAGACCCCAGCGATCTGATCCCGGGATCCCGGCTCCAA	
100060 IS	[AG]		GCCGGGGTGAAATCTGTAAAATGCGAGGAGAGCTTGGAGCCGGGATCCCGGGATCAGATC[AG]CTGGGGTCTTCTGTGGCCGAGCTCCCTCTGGTCCTCGAACGCTGCCC AGCGACCTCTCGC	SIAT8D
100064 I		S	GCCCCTAGCCAAGGCCAGAGTCTGGC	
100064 P	C	S	ATGACGTGGCAGACGCTGGCCATCGTTTTY	
100064 P	A	S	CGCGCCGAGGTCTGGCCATCGTTTTCY	
100064 T	C	S	GGAAGAAAACGATGGCCAGCCCAGACTCTGGCCTTGGCTAGGGGCAG	
100064 T	A	S	GGAAGAAAACGATGGCCAGACCAGACTCTGGCCTTGGCTAGGGGCAG	
100064 IS	[CA]		CTGGGAATAGGTAAGACAGACAGACAGACAGACAGACAGACGCGGAAGAAAACGATGGCCAG[CA]CCAGACTCTGGCCTTGGCTAGGGGCAGGGCTTGGCTGGAAGTGT CAGGGCTTTGAGCTG	
100080 I		S	ACTGCAAGCTCTGTGTGCAGAACCCAAGGA	
100080 P	G	S	ATGACGTGGCAGACGCTCTTCTGGAGTGAT	
100080 P	A	S	CGCGCCGAGGTGCTCTTCTGGAGTGAAT	
100080 T	G	S	GGAGTTCACTCCAGAAGAGGCCTTGGGTTCTGCACACAGAGCTTGCAGTAG	
100080 T	A	S	GGAGTTCACTCCAGAAGAGCACCTTGGGTTCTGCACACAGAGCTTGCAGTAG	
100080 IS	[GA]		GGTGGGCACCCAGGTTGCTGTTGCTGTTGAGGAGGGTTGTGGAGTTCACTCCAGAAGAGC[GA]CCTTGGGTTCTGCACACAGAGCTTGCAGTAGCTTGTATAATGGTGC CAGGGTCCTCTCAG	
100100 I		S	TCCCCTTGATCTGTTGAAACGTGGATCCTTCTTGTC	
100100 P	C	S	ATGACGTGGCAGACGGTATCCTAGAACAGATGTCAY	
100100 P	A	S	CGCGCCGAGGTGTATCCTAGAACAGATGTCAY	
100100 T	C	S	ATATTGACATCTGTTCTAGGATACACAGAAGGATCCACGTTTCAACAGATCAAGGGGACA	
100100 T	A	S	ATATTGACATCTGTTCTAGGATACACAGAAGGATCCACGTTTCAACAGATCAAGGGGACA	
100100 IS	[CA]		TGCCCATGGCATCTTGGCAGAAAATTAGAAAGATAAATATTGACATCTGTTCTAGGATAC[CA]ACAGAAGGATCCACGTTTCAACAGATCAAGGGGACACATGGAGCA TGGCCCAGCTCCCC	
100142 I		S	CCCCCGTCGTCACCCCCTGCC	
100142 P	A	S	CGCGCCGAGGTGTGCCACTGGCCY	
100142 P	T	S	ATGACGTGGCAGACAGTGCCACTGGCCY	

100142 T	A		S	CGGTGGCCAGTGGCACAGCAGGGGGTGACGACGGGGGTG
100142 T	T		S	CGGTGGCCAGTGGCACTGCAGGGGGTGACGACGGGGGTG
100142 IS	[AT]			TCTGCCTAGAACCCAGGTGCAGCAGGCCGAAGCCGCAAGCCGCAAGCCGTGGCCGTGGCCAGTGGCAC[AT]GCAGGGGGGTGACGACGGGGGTGCCTCCGGGGCGCCCCCTGCCCAAAG CCCAGCCTCGGCAC
100154 I			S	TCCAGGGAAATGAGACTACAACTACTTTGACAATTCAGTACATTATATTCAGTGATT
100154 P	T		S	CGCGCCGAGGAGTAAACGTTTCCTTGGACY
100154 P	C		S	ATGACGTGGCAGACGGTAAACGTTTCCTTGGAT
100154 T	T		S	TTCAGTCCAAGGAAACGTTTACTATCACTGAATATAATGTACTGAATTGTCAAAGTAGTTGTAGTCTCATTTCCCTGGAGA
100154 T	C		S	TTCAGTCCAAGGAAACGTTTACCATCACTGAATATAATGTACTGAATTGTCAAAGTAGTTGTAGTCTCATTTCCCTGGAGA
100154 IS	[TC]			CTCGAGAAACCCAAATGAAGATTAACATCATCTTGGTTATTCAGTCCAAGGAAACGTTTACTCATCACTGAATATAATGTACTGAATTGTCAAAGTAGTTGTAGTCTCA TTTCCCTGGAGATA
100159 I			S	CTGGCTCTTATTGAACAGTACATTTCCTCCCCACAGTGA
100159 P	A		S	CGCGCCGAGGTGCTGGAAAGGATGTGAY
100159 P	G		S	ATGACGTGGCAGACCGCTGGAAAGGATGTGY
100159 T	A		S	GCTTTCACATCCTTTCCAGCACACTGTGGGCAGCAAATGTACTGTTCAATAAGAGCCAGAG
100159 T	G		S	GCTTTCACATCCTTTCCAGCGCACTGTGGGCAGCAAATGTACTGTTCAATAAGAGCCAGAG
100159 IS	[AG]			CAAAGAGATCAGATTATATAGGCAGCCTGTGTCAACCAAGCCTTTCACATCCTTTCCAGC[AG]CACTCTGGGCAGGAAATGTACTGTTCAATAAGAGCCAGAGAGCGA AAGGGAAGGAGAT
100162 I		A		GACGAGTTGGCTGTTAAGATTGAAAATAATGTAAGTTCAAACTGA
100162 P	C	A		ATGACGTGGCAGACATATCCAAAGCATAAATATTTCTTGY
100162 P	T	A		CGCGCCGAGGTATATCCAAAGCATAAATATTTCTTGGT
100162 T	C	A		CTACCCAAGAAATATTTATGCTTTGGATATGCAGTTTGAACTTACATTATTTTCAATCTTAACAGCCAACTCGTCTA
100162 T	T	A		CTACCCAAGAAATATTTATGCTTTGGATATACAGTTTGAACTTACATTATTTTCAATCTTAACAGCCAACTCGTCTA
100162 IS	[CT]			TTCCTAATAACATTTAGACAGTTGGCTGTTAAGATTGAAAATAATGTAAGTTCAAACTG[CT]ATATCCAAAGCATAAATATTTCTTGGGTAGGGTGTTGAAAAAAAT ATTTACCCGTGCATA
100219 I		A		GGACCCCAGCGAGAAGGCCAAGGA
100219 P	C	A		ATGACGTGGCAGACGGCAAGCCCAGGY
100219 P	T	A		CGCGCCGAGGTGGGAAGCCCAGGY
100219 T	C	A		GCTCCCTGGGCTCCCACCTTGGCCTTCTCGCTGGGGTCCCG
100219 T	T	A		GCTCCCTGGGCTCCCACCTTGGCCTTCTCGCTGGGGTCCCG
100219 IS	[CT]			GTCACATCCACAAGCCTTAAATGCTGAAGGCCCCCCGGACCCCAGCGAGAAGGCCAAGG[CT]GGGAAGCCCAGGGAGCTCCCCCACCTCCCCACTTACCTTAATCCAGGA ATGTTCCAGGCT
100220 I			S	GGGCCGTGGAGTCAGACAGCCA
100220 P	G		S	ATGACGTGGCAGACCGGCTGTGAATTCCTGY
100220 P	A		S	CGCGCCGAGGTGGCTGTGAATTCCTGY
100220 T	G		S	CAAGCAGGAATTCACAGCCGGGGCTGTCTGACTCCACGGCCCAA
100220 T	A		S	CAAGCAGGAATTCACAGCCAGGCCTGTCTGACTCCACGGCCCAA
100220 IS	[GA]			TCAATTACTTTTCTCCCCACAGGAAACACACAGAGGAATTCCCAAGCAGGAATTCACAGCC[GA]GGGCTGTCTGACTCCACGGCCCAAATCGTTCCCCCACCGCATGATAC TGACTCATTCCT
100227 I			S	GCCACCCCGCACCTGAGCCACA
100227 P	G		S	ATGACGTGGCAGACCTCCTGGACTCCTGTCY
100227 P	A		S	CGCGCCGAGGTTCCTTGGACTCCTGTCY
100227 T	G		S	AGAGGACAGGAGTCCAAGGAGGTGGCTCAGGTGCCGGGCTGGCGC
100227 T	A		S	AGAGGACAGGAGTCCAAGGAAGTGGCTCAGGTGCCGGGCTGGCGC
100227 IS	[GA]			AAGAGAGTAGGCTAGAGGAGGAGGGAAGTCCTCAAGGGGTAGAGGACAGGAGTCCAAGGA[GA]GTGGCTCAGGTGCCGGGCTGGCGCCTCAGGAGAGCCCAGAAATCTT CCAGGCAGCACTGTC
100246 I		A		CTCTGTTCTCCCCTGCTGGTCACCATTGGATTTTTTTTTTTTC
100246 P	T	A		CGCGCCGAGGTGCCATGGTGGCGY
100246 P	G	A		ATGACGTGGCAGACGGCCATGGTGGCGY
100246 T	T	A		GTGCCGCCACCATGGCAAAAAAAAAAAAATCCAATGGTGACGAGCAGGAGAACAGAGCA
100246 T	G	A		GTGCCGCCACCATGGCCAAAAAAAAAAAATCCAATGGTGACGAGCAGGAGAACAGAGCA
100246 IS	[TG]			ACAGCCCATTGGCAGCTGCTCTGTTCTCCCTGCTGGTCACCATTGGATTTTTTTTTTTT[TG]GCCATGGTGGCGGCACTCTCATTGGTCCTGGGGCTCATTCGTCACTCAG CCGCGATTGGC
100253 I		A		CAAAGTAAGTAGCTTCTTTTGGGAAAAACCTAAGTTAAACTAGTAGTTTC
100253 P	T	A		CGCGCCGAGGTGCCATAATAACTGCTGATTY
100253 P	G	A		ATGACGTGGCAGACGGCCATAATAACTGCTGATY
100253 T	T	A		CATAAATCAGCAGTTATTATGGCCAAACTACTAGTTTAACTTAGGTTTTTCCCAAAAGAAGCTACTTACTTTGAA
100253 T	G	A		CATAAATCAGCAGTTATTATGGCCAAACTACTAGTTTAACTTAGGTTTTTCCCAAAAGAAGCTACTTACTTTGAA
100253 IS	[TG]			AGTTTTATTTTCAAAGTAAGTAGCTTCTTTTGGGAAAAACCTAAGTTAAACTAGTAGTTT[TG]GCCATAATAACTGCTGATTTATGTATTTGCTAAAGGTACTTTTGTA TCTGCTGTGTATTA
100254 I		A		TGAGATGTTCCTCTACTAAGCAGTGACTATTTGCTTAGAAATGTT
100254 P	G	A		ATGACGTGGCAGACGTAGTCTCTGTCAAGGATCAY
100254 P	A	A		CGCGCCGAGGATAGTCTCTGTCAAGGATCAY
100254 T	G	A		TGAGTGATCCTTGACAGAGACTACACATTTCTAAGCAAATAGTCACTGCTTAGTAGAGAACATCTCATT
100254 T	A	A		TGAGTGATCCTTGACAGAGACTATACATTTCTAAGCAAATAGTCACTGCTTAGTAGAGAACATCTCATT
100254 IS	[GA]			AATCATTATAAATTAAATGAGATGTTCTCTACTAAGCAGTGACTATTTGCTTAGAAATGT[GA]TAGTCTCTGTCAAGGATCACTCAGGCTCACTGTTCATGAGTCTGGT ACTCCCTGCTGAAT
100266 I		A		GCATGCGCCGGCGCTCAGCA
100266 P	C	A		ATGACGTGGCAGACCGCCACACTGTGCY
100266 P	T	A		CGCGCCGAGGTGCCACACTGTGCTY
100266 T	C	A		ATGAAGCACAGTGTGGCGGCTGAGCCCGGCGCATGCGC
100266 T	T	A		ATGAAGCACAGTGTGCCAGCTGAGCCCGGCGCATGCGC
100266 IS	[CT]			GTTGGCCAGGAGGTCCTTGATGGTGTCTGCATAGACAAGGCGCATGCGCCGGCGCTCAGC[CT]GCCACACTGTGCTCCATCTTCTCCTCTTCTGTCCGCGGCGTGATCTGC TTCAGCTTCACC
100267 I		A		ACTGTGCTCCATCTCTCCTCTTCTGTCCGCT
100267 P	G	A		ATGACGTGGCAGACGGCGTGATCTGCTTCY
100267 P	A	A		CGCGCCGAGGAGCGTGATCTGCTTCAY
100267 T	G	A		AAGCTGAAGCAGATCACGCCGCGGACAGAAGAGGAGAAGATGGAGCACAGTGT
100267 T	A	A		AAGCTGAAGCAGATCACGCTGCGGACAGAAGAGGAGAAGATGGAGCACAGTGT
100267 IS	[GA]			AGGGCATGCGCCGCGCTCAGCCGCCACACTGTGCTCCATCTTCTCCTCTTCTGTCCGC[GA]GCGTGATCTGCTTCAGCTTCACCTGTCGGCCAGGGGACAGGGTGGGGG ACACTCAGGCA
100321 I		A		TGAGGGATGGCTGCCTTCAGCCTACC
100321 P	G	A		ATGACGTGGCAGACGTGTCCCTGTCTGCAY
100321 P	T	A		CGCGCCGAGGTTGTCCCTGTCTGCATY
100321 T	G	A		AGACATGCAGACAGGGACACACGTAGGCTGAGGGCAGCCATCCCTCACC
100321 T	T	A		AGACATGCAGACAGGGACAAGTAGGCTGAGGGCAGCCATCCCTCACC
100321 IS	[GT]			ACAGACAACAGGAGATGAGGAGCTGGGGACAGAAGGTGAGGGATGGCTGCCCTCAGCCTAC[GT]TGTCCCTGTCTGCATGTCTTTCTTGGCTTCTGAGCTTTGAGGCTGCC TGTGCTTATGGAG
100345 I			S	TGGGATCCGGGCTCACCCACCTCT
100345 P	G		S	CGCGCCGAGGCTGCCCCTACCCAAAT
100345 P	C		S	ATGACGTGGCAGACGTGCCCCTACCCAAAT

FIGURE 129C

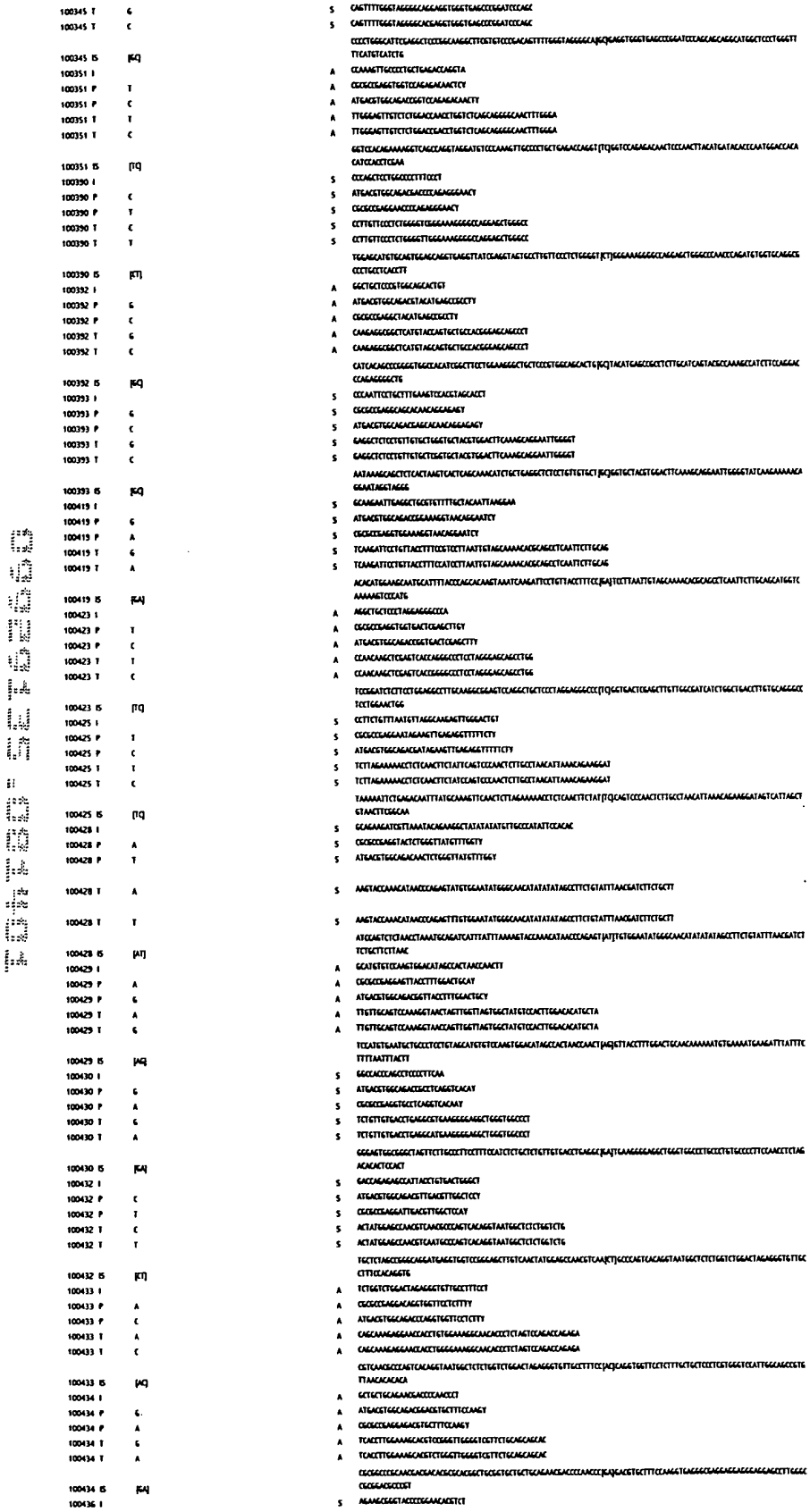


FIGURE 129C

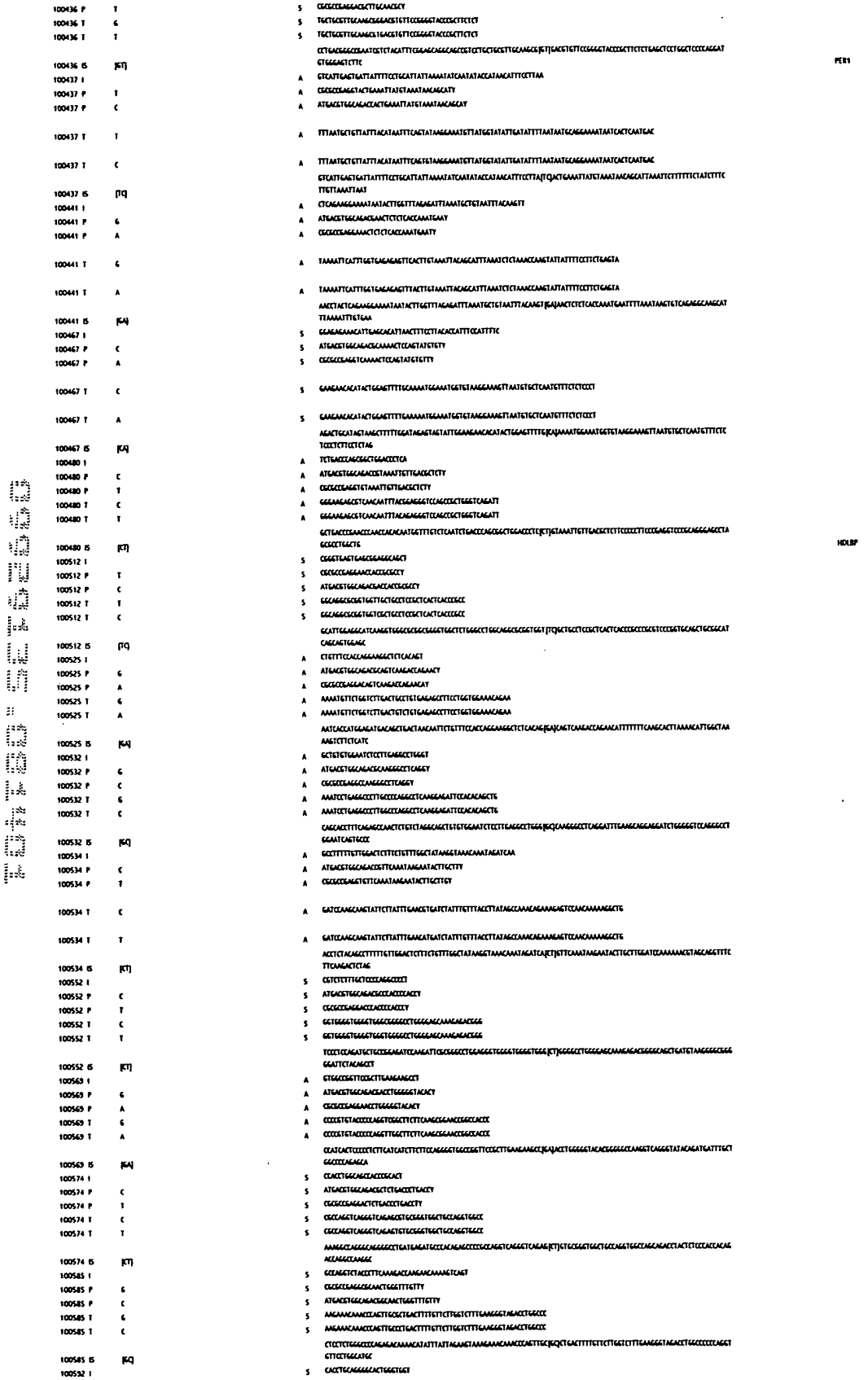
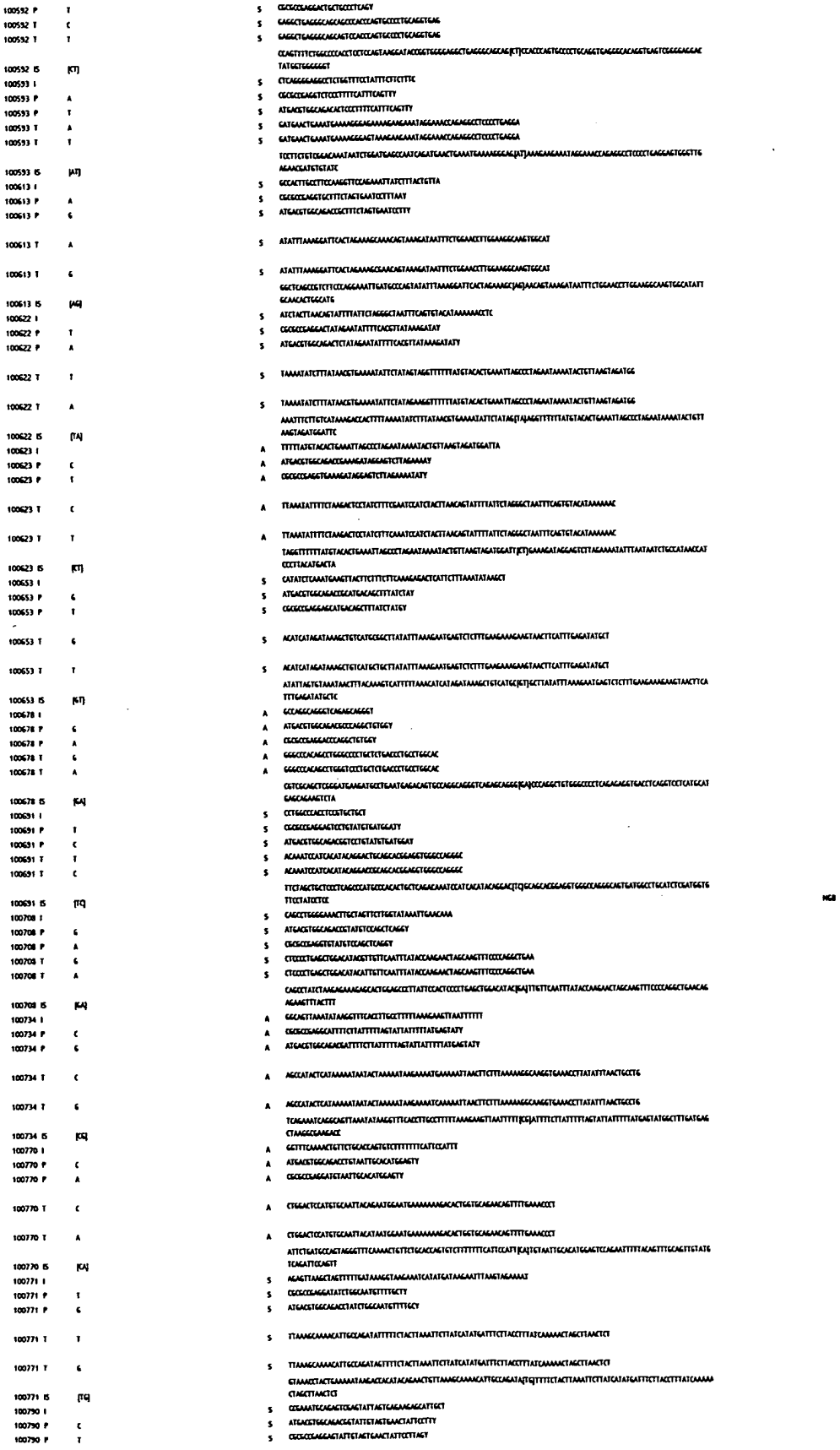


FIGURE 129C







100790 T	C	S	TGGTCTAAGGAATAGTTCACTACAATACCGCAATGCTCTCTTCTCACTAATACTCGACTCTGCATTTCGGTA	
100790 T .	T	S	TGGTCTAAGGAATAGTTCACTACAATACTGCAATGCTCTCTTCTCACTAATACTCGACTCTGCATTTCGGTA	
100790 IS	[CT]		AAATCACSAAATAAATGAAGGTTAACAAAGACTGGTCTAAGGAATAGTTCACTACAATAC[CT]GCAATGCTCTCTTCTCACTAATACTCGACTCTGCATTTCGGTACTTATA TCTGAAAGATTTG	
100820 I		S	GCCAGCTCTACGTGGGCGATCCTGACT	
100820 P	C	S	ATGACGTGGCAGACGACACCTCCGCTCTGT	
100820 P	T	S	CGCGCCCAGGAACACCTCCGCTCTGT	
100820 T	C	S	TGTGCAGAGCGCAGGTGTCGTCAGGATCGCCCACGTAGAGCTGGCTG	
100820 T	T	S	TGTGCAGAGCGCAGGTGTTGTCAGGATCGCCCACGTAGAGCTGGCTG	
100820 IS	[CT]		GGTGACATGCAGCAAACTTGCAGGGCACCTCGCGCCAGGCATTGTGCAGAGCGCAGGTGT[CT]GTCAGGATCGCCCACGTAGAGCTGGCTGATGCGGCACAGTATCGCT GCACTGCCACCAAC	HSPG2
100824 I		S	GCTCCCAGCCAAACTAGCCAAAATAAGGGCAAATAAT	
100824 P	C	S	ATGACGTGGCAGACGATCATACAACTCCAACAGGT	
100824 P	T	S	CGCGCCCAGGAATCATACAACTCCAACAGGT	
100824 T	C	S	CCATCCTGTTGCAGTTGTATGATCTTATTTCCCCTTATTTTGGCTAGTTTGGCTGGGAGCCC	
100824 T	T	S	CCATCCTGTTGCAGTTGTATGATTTTATTTCCCCTTATTTTGGCTAGTTTGGCTGGGAGCCC	
100824 IS	[CT]		ATGTGTAAAGGCGTACTGACCACCCACAATGTGGTGTCCATCCTGTTGCAGTTGTATGAT[CT]TTATTTCCCCTTATTTTGGCTAGTTTGGCTGGGAGCCCCATGTGGTG CAGGACCATCAAG	
100833 I		A	CCCAATGAGCATCAGCAGCGAAGGTCAGA	
100833 P	T	A	CGCGCCCAGGTTCTCTTCAGACCTGGTGT	
100833 P	C	A	ATGACGTGGCAGACCTCTCTTCAGACCTGGTY	
100833 T	T	A	TTGCCACAGGTCTGAAGAGAAGTGACCTCGCTGCTGATGCTCATTGGGCT	
100833 T	C	A	TTGCCACAGGTCTGAAGAGAGCTGACCTCGCTGCTGATGCTCATTGGGCT	
100833 IS	[TC]		TGCCTTACCCCACCTCCCACACAGGTGCATAAAGCCCAATGAGCATCAGCAGCGAAGGTCAG[TC]CTCTTCAGACCTGGTGGCAACCCAGGCTCGGTACCTGGGACTGCTGG AGAACGTACGGG	
100844 I		A	GGAGCATCTATAAACCCTGCATACCCCAGCCT	
100844 P	A	A	CGCGCCCAGGACAGCCATCAGTTGCY	
100844 P	G	A	ATGACGTGGCAGACGCAGCCATCAGTTGCY	
100844 T	A	A	TTCCGCAACTGATGGCTGTGGCTGGGGTATGCAGGGTTTATAGATGCTCCAA	
100844 T	G	A	TTCCGCAACTGATGGCTGCGGCTGGGGTATGCAGGGTTTATAGATGCTCCAA	
100844 IS	[AG]		AGTAAGCAGAGAGCAAAAACAGAAAAGTTGAAGCATCTATAAACCCTGCATACCCCAGCC[AG]CAGCCATCAGTTGCGAAATCTGGGGGTTATCCAGACTTCAGACATT GAGTCCTCGGTTCC	
100846 I		S	TGCTGTGTTTTCCTGGTTCCCTTCCCACCC	
100846 P	A	S	CGCGCCAGGTCTTGACAGCTTGTTTCTTTY	
100846 P	C	S	ATGACGTGGCAGACGCTTGACAGCTTGTTTCTY	
100846 T	A	S	AGAAAAACAAACAAGCTGTCAAGCAGTGGGAAGGGAACCAGCAAAACACAGCATC	
100846 T	C	S	AGAAAAACAAACAAGCTGTCAAGCGGTGGGAAGGGAACCAGCAAAACACAGCATC	
100846 IS	[AC]		CTCATTTTTAAAGGTAGATAAAGAAGGAGCTAATGAAGAAAAAGAAACAAGCTGTCAAG[AC]GGTGGCAAGGGAACCAGCAAAACACAGCATCATGTCAGACAATAA AATAGTGTAATTTCA	
100874 I		S	CCCTCCTCCCAAACCACCTCAAGCAT	
100874 P	C	S	ATGACGTGGCAGACGTGTTACTGAATTGTTCATGAGY	
100874 P	G	S	CGCGCCCAGGCTGTTACTGAATTGTTCATGAGY	
100874 T	C	S	GGTGCTCATGAACAATTCAGTAACACTGCTTGAGGTGGGTTTGGGAGGAGGGTA	
100874 T	G	S	GGTGCTCATGAACAATTCAGTAACAGTGCTTGAGGTGGGTTTGGGAGGAGGGTA	
100874 IS	[CG]		GCAGGATACAAAGTGACCATCAGCACCTTGGTGGTGGTGCTCATGAACAATTCAGTAACA[CG]TGCTTGAGGTGGGTTTGGGAGGAGGGTACCAGCACAGCAGCAGCAT GCAGCAACAAAGGGA	
100876 I		S	CAGCAAGTCCTTCCTCTGCACCTGCAGAAGT	
100876 P	T	S	CGCGCCCAGGAAGCAACAGAAAAGACCAAT	
100876 P	G	S	ATGACGTGGCAGACAGCAACAGAAAAGACCAY	
100876 T	T	S	CACTTTGGTCTTTTCTGTTGCTTCTTCTGCAGGTGCAGAGGAAGGACTTGCTGAC	
100876 T	G	S	CACTTTGGTCTTTTCTGTTGCTGCTTCTGCAGGTGCAGAGGAAGGACTTGCTGAC	
100876 IS	[TG]		TCATCATTCTGCCCACTGCACACTCACACTTCCTCTTCCACTTTGGTCTTTTCTGTTGCT[TG]CTTCTGCAGGTGCAGAGGAAGGACTTGCTGACATCTGTGAGGAAGAGA ACAATTGTGCAT	
100877 I		S	CCTGCTGGAGGGACCCCCCAGTT	
100877 P	C	S	ATGACGTGGCAGACGACATCTGGGTCTGCTY	
100877 P	T	S	CGCGCCCAGGAACATCTGGGTCTGCTY	
100877 T	C	S	CCAGAGCAGACCCAGATGTCACTGGGGGGTCCCTCCAGCAGGGT	
100877 T	T	S	CCAGAGCAGACCCAGATGTTACTGGGGGGTCCCTCCAGCAGGGT	
100877 IS	[CT]		AGACGCAGTGCAGGAAAAGACCTATCTGTCAAGGCGGTGTCCAGAGCAGACCCAGATGT[CT]ACTGGGGGGTCCCTCCAGCAGGGTGGGGTCCAGCTCTTCTCAGCCCA GCCCAGCCCCCTC	
100908 I		A	GTGCTGCAGAACTGTTCTCACGACTTGGGTCT	
100908 P	A	A	CGCGCCCAGGATGCTTCTTGGGTGCY	
100908 P	G	A	ATGACGTGGCAGACGTGCTTCTTGGGTGCY	
100908 T	A	A	ACATGCACCCAAGAAGCATGACCCAAGTCGTGAGAACAGTTCTGCAGCACGG	
100908 T	G	A	ACATGCACCCAAGAAGCACGACCCAAGTCGTGAGAACAGTTCTGCAGCACGG	
100908 IS	[AC]		TTGGCCATGAGATAATAAGTGACCTCTCCGTGCTGCAGAACTGTTCTCACGACTTGGGTC[AC]TGCTTCTTGGGTGCATGTCCTCAAAGTCCCTCATGGGCTCTGCAGAG ACAAAGCACACT	
100911 I		A	GCGGCGAGAGCATCCGGGTCACT	
100911 P	G	A	ATGACGTGGCAGACGGAGGAGAACAAGGAAGAT	
100911 P	A	A	CGCGCCCAGGAGAGGAGAACAAGGAAGAT	
100911 T	G	A	TGTACTCTTGCTTGTTCCTCCTCCGTGACCCGGATGCTCTCGCCGCCC	
100911 T	A	A	TGTACTCTTGCTTGTTCCTCTCTGTGACCCGGATGCTCTCGCCGCCC	
100911 IS	[GA]		GATACTGGGCAAGTGACGACTCACAAGCTGAAGGAGGCGGCGGAGAGCATCCGGGTCAC[GA]CAGGAGAACAAGGAAGAGTACATCATGTGAGTCTCAGGCGCCGGG GGCTCCGCTCCAGGG	
100933 I		A	GGGATTGCAATTCGGATTTCTTTTCTTTCTTTTTTGGCGGACT	
100933 P	A	A	CGCGCCGAGGAGTGGTGGTGCTGTY	
100933 P	G	A	ATGACGTGGCAGACGGTGGTGGTGCTGTY	
100933 T	A	A	AGCCACAGCACCACACTGTCCGCCAAAAAAGAAAGAAAAGAAATCCGAATTGCAATCCCTC	
100933 T	G	A	AGCCACAGCACCACACCGTCCGCCAAAAAAGAAAGAAAAGAAATCCGAATTGCAATCCCTC	
100933 IS	[AC]		TTCTAAGTAGAAAAGCCAAGGAATTGCAATTCGGATTTCTTTTCTTTCTTTTTTTGGCGGAC[AG]GTGTGGTGCTCTGTGCCTGGGGAATAAAGAACTGATGAAGCTGAGGA AACAACGCTTGTT	
100939 I		S	GCCTTTTCCCATCTGCAGTCTCACAACTACCCA	
100939 P	G	S	ATGACGTGGCAGACTAGGAGGCTCATGGTY	
100939 P	A	S	CGCGCCGAAGTAGGAGGCTCATGGTTAGY	
100939 T	G	S	GGTACTAACCATGAGCCTCCTGGGGTAGTTGTGAGACTGCAGATGGGAAAAGCCTT	
100939 T	A	S	GGTACTAACCATGAGCCTCCTAGGGTAGTTGTGAGACTGCAGATGGGAAAAGCCTT	
100939 IS	[GA]		TGCCTTGCCTCTCTGAGCCTCTGATAATCCCCTAAAAATGGTACTAACCATGAGCCTCCT[GA]GGGTAGTTGTGAGACTGCAGATGGGAAAAGCCTTTTAAACTGAAAGG AGGAAGGAAAGG	
100941 I		A	GCCATAGGAACAACCATACCATCTCTGGACT	
100941 P	A	A	CGCGCCGAGGACTGTACTCCTTCTCCY	
100941 P	G	A	ATGACGTGGCAGACGCCGTACTGCTTCTCCY	
100941 T	A	A	AGGTGGAAGAAGAAGTACGGTGTCCGAGAGATGGTATGGGTGGTTCCTATGGCTT	
100941 T	G	A	AGGTGGAAGAAGAAGTACGGCGTCCGAGAGATGGTATGGGTGGTTCCTATGGCTT	
100941 IS	[AC]		CCCACCTGCACAATCCCACCCCTCCAAGCCATAGGAACCACCCATACCATCTCTCGGAC[AG]CCGTACTCCTTCTCCACCTTCATTTTCAGGTTCTTGAAACATTCCTCCAT CCGCTCATGG	
100942 I		A	CCTGTGATGGCCCTGCAGCCTCCTA	
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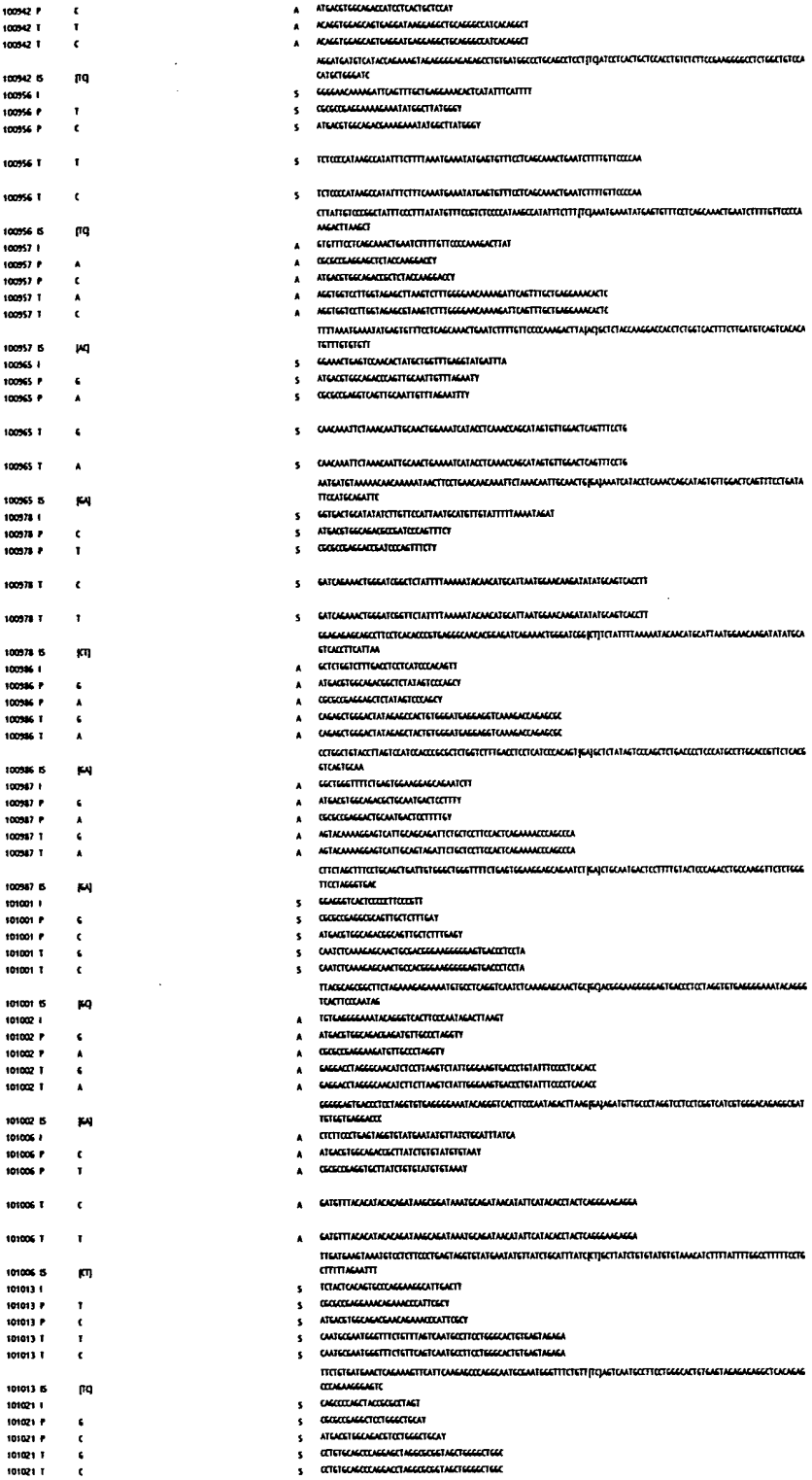


FIGURE 129C

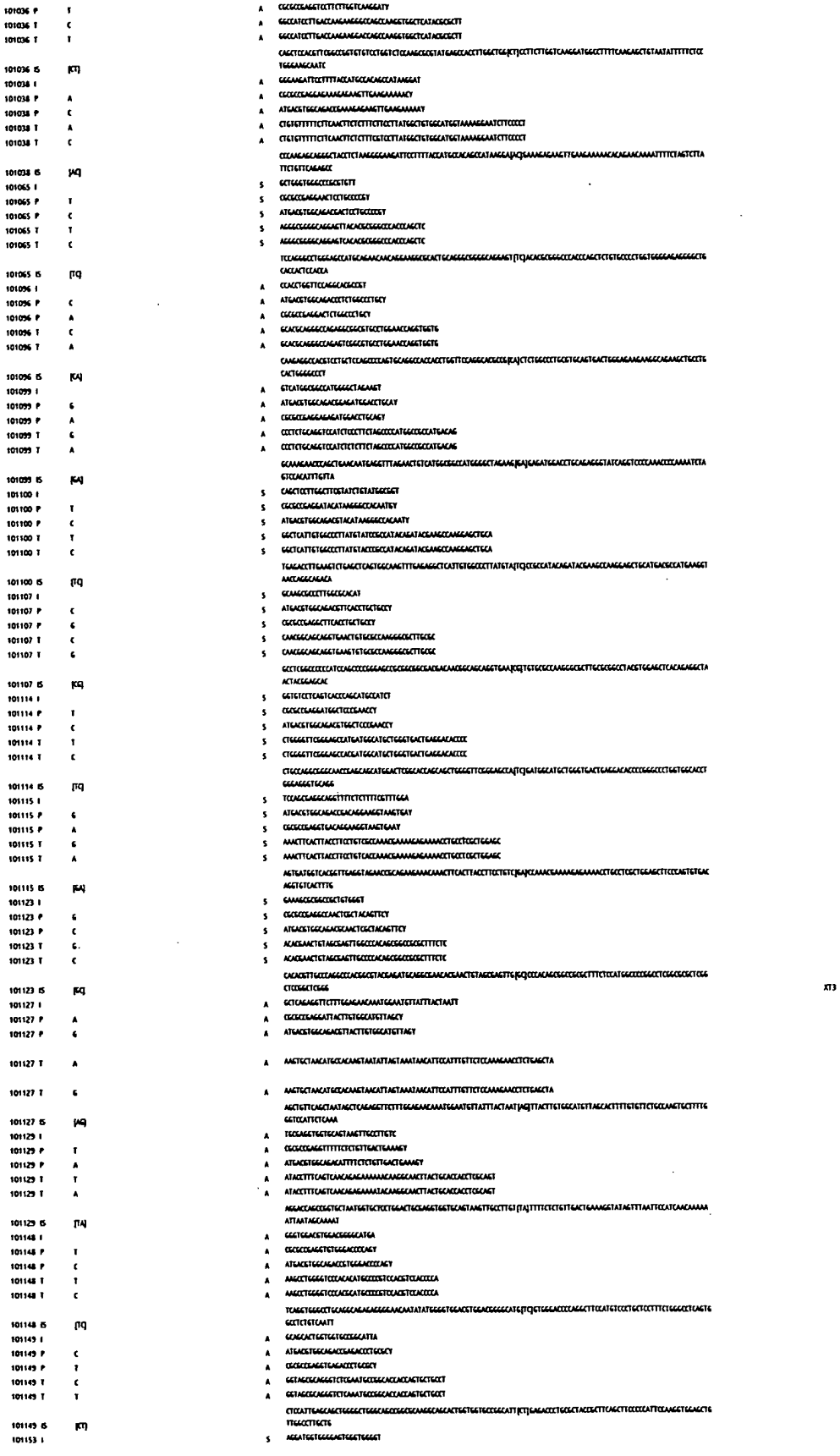




FIGURE 129C

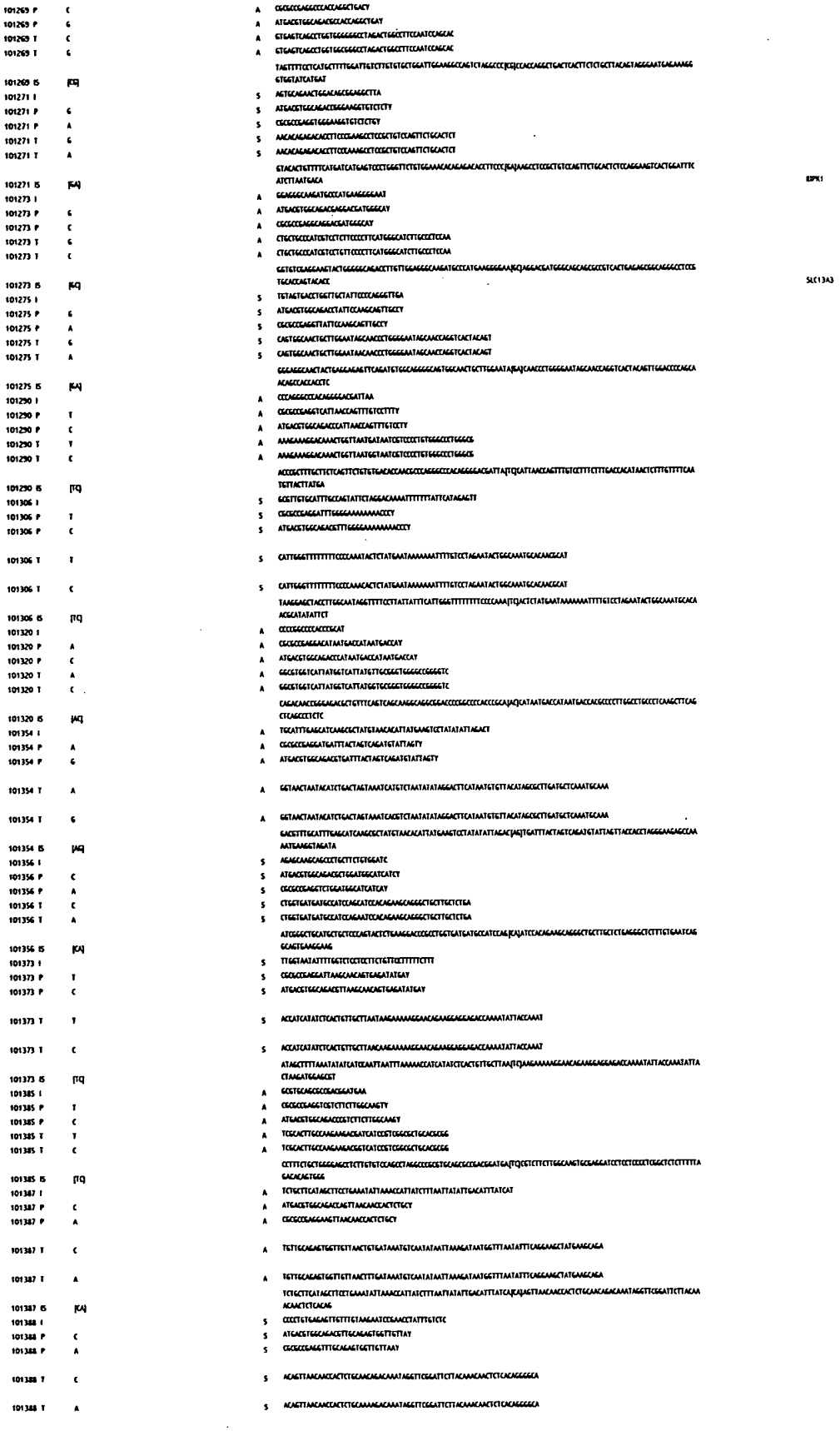


FIGURE 129C

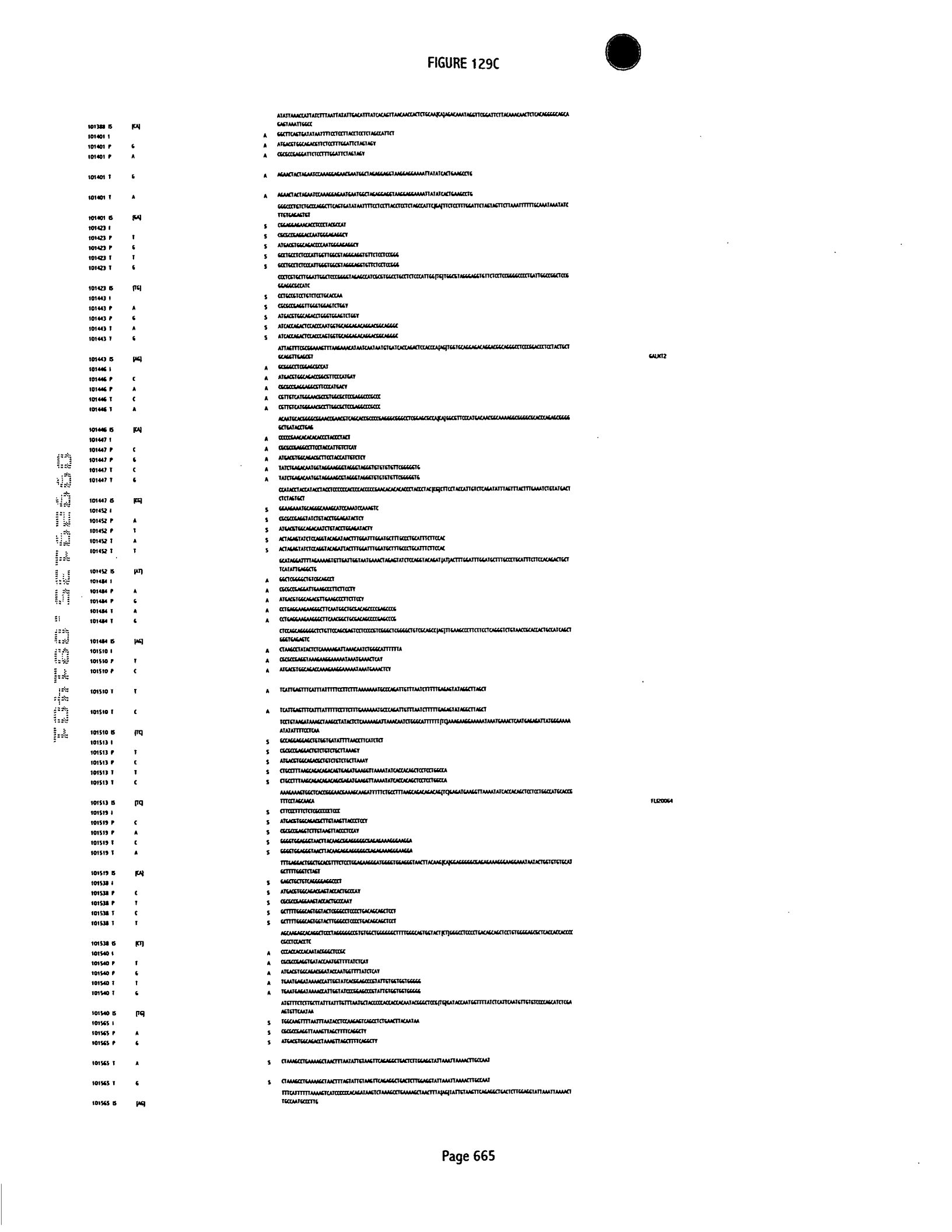


FIGURE 129C

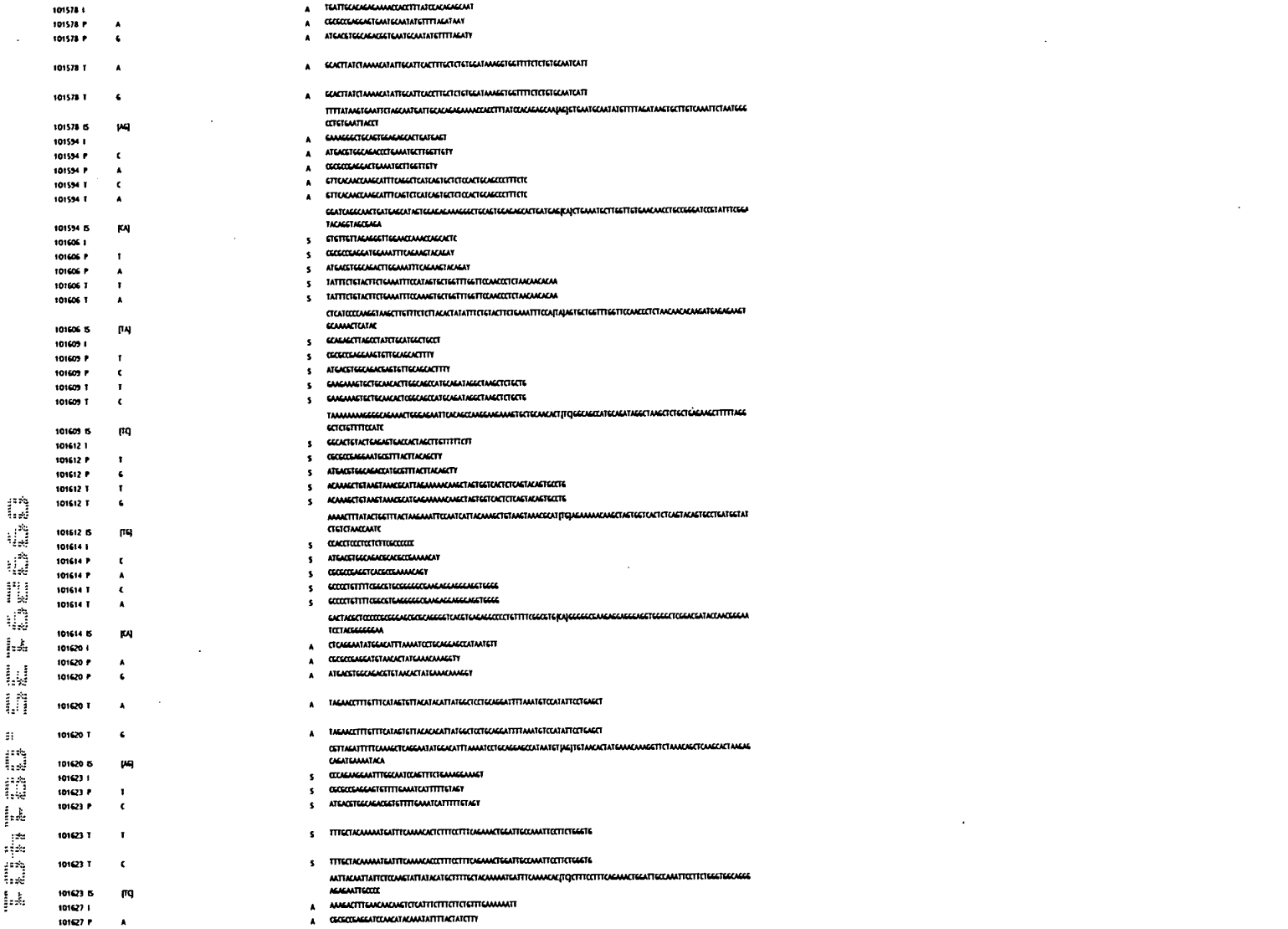
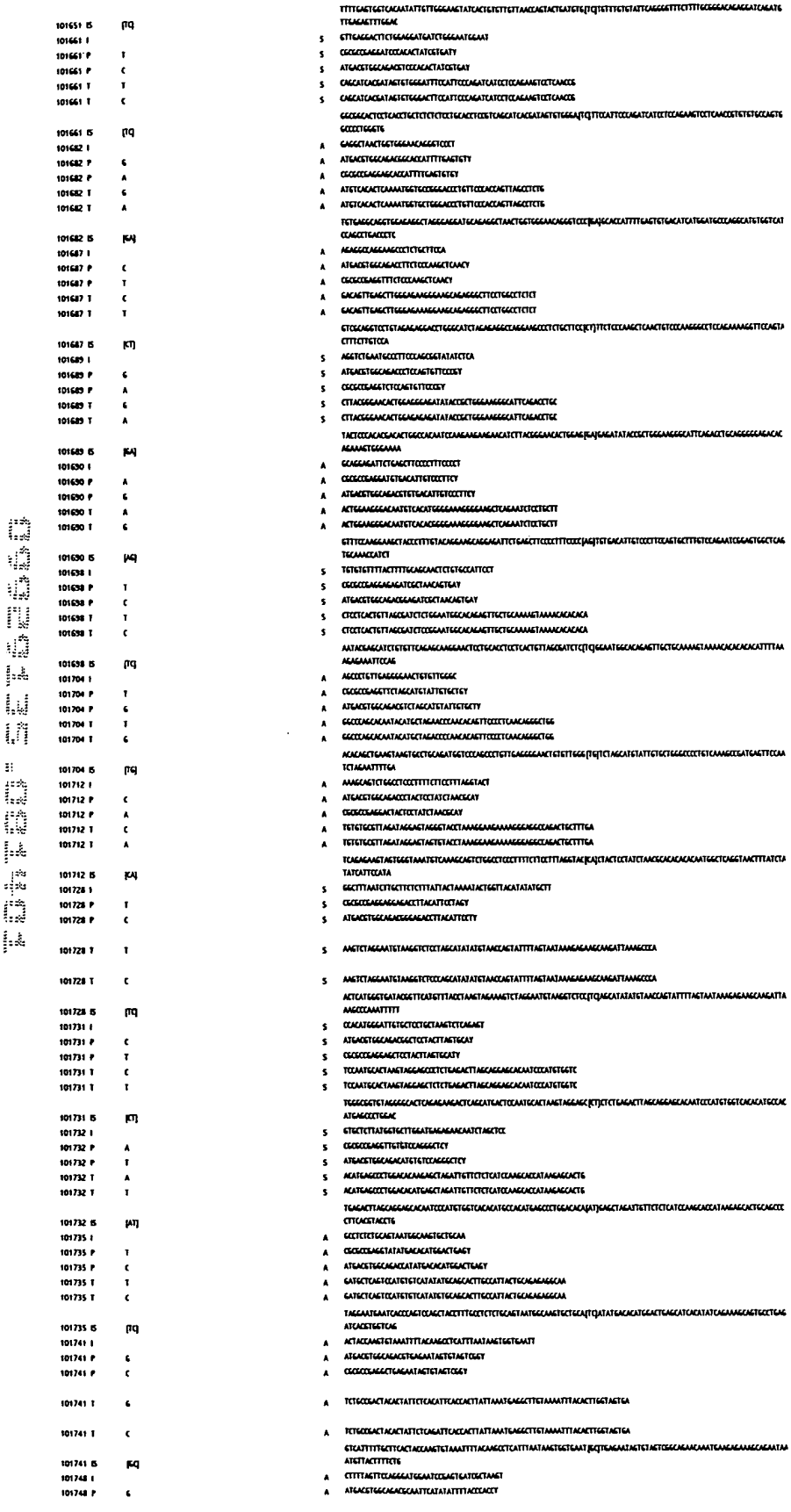
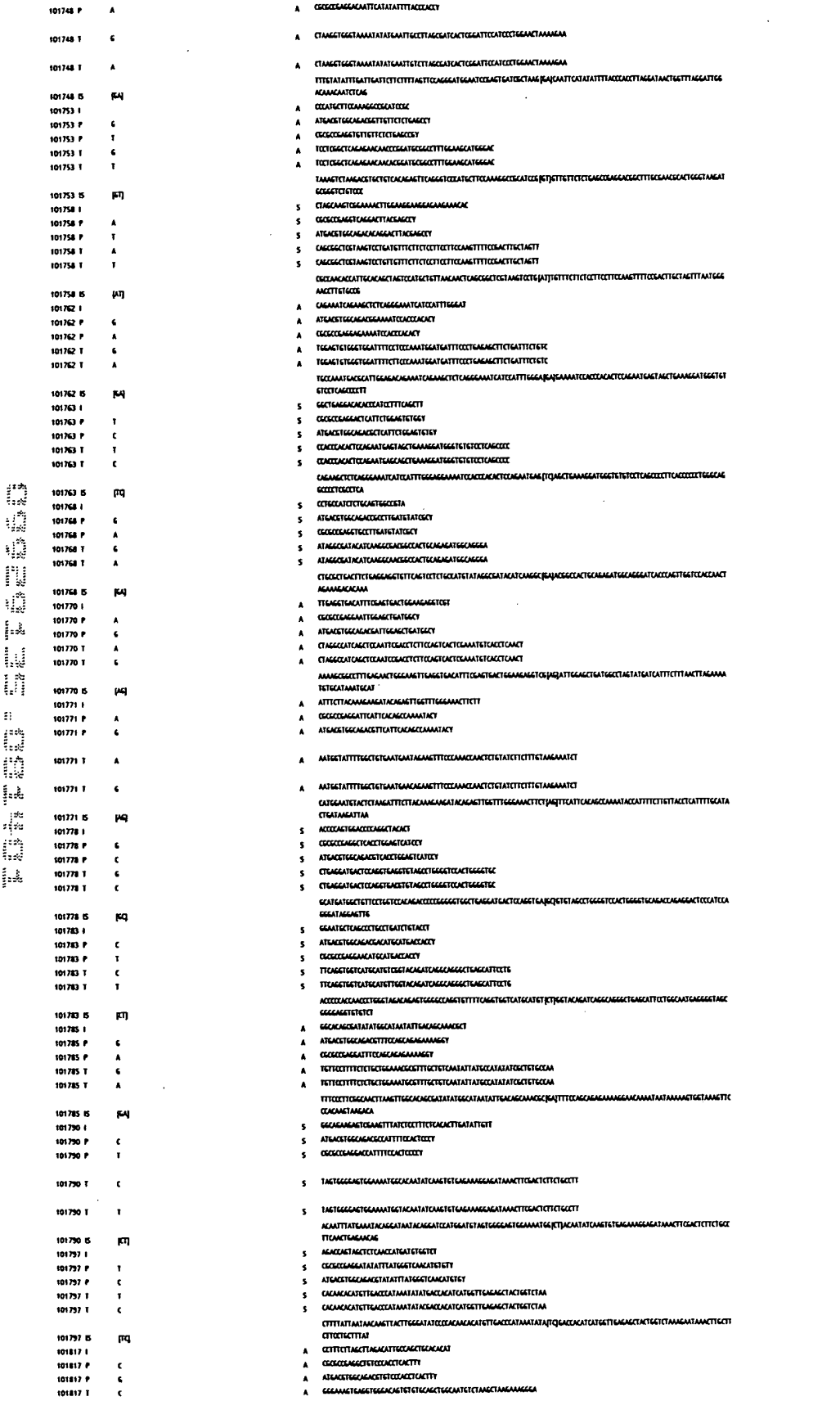
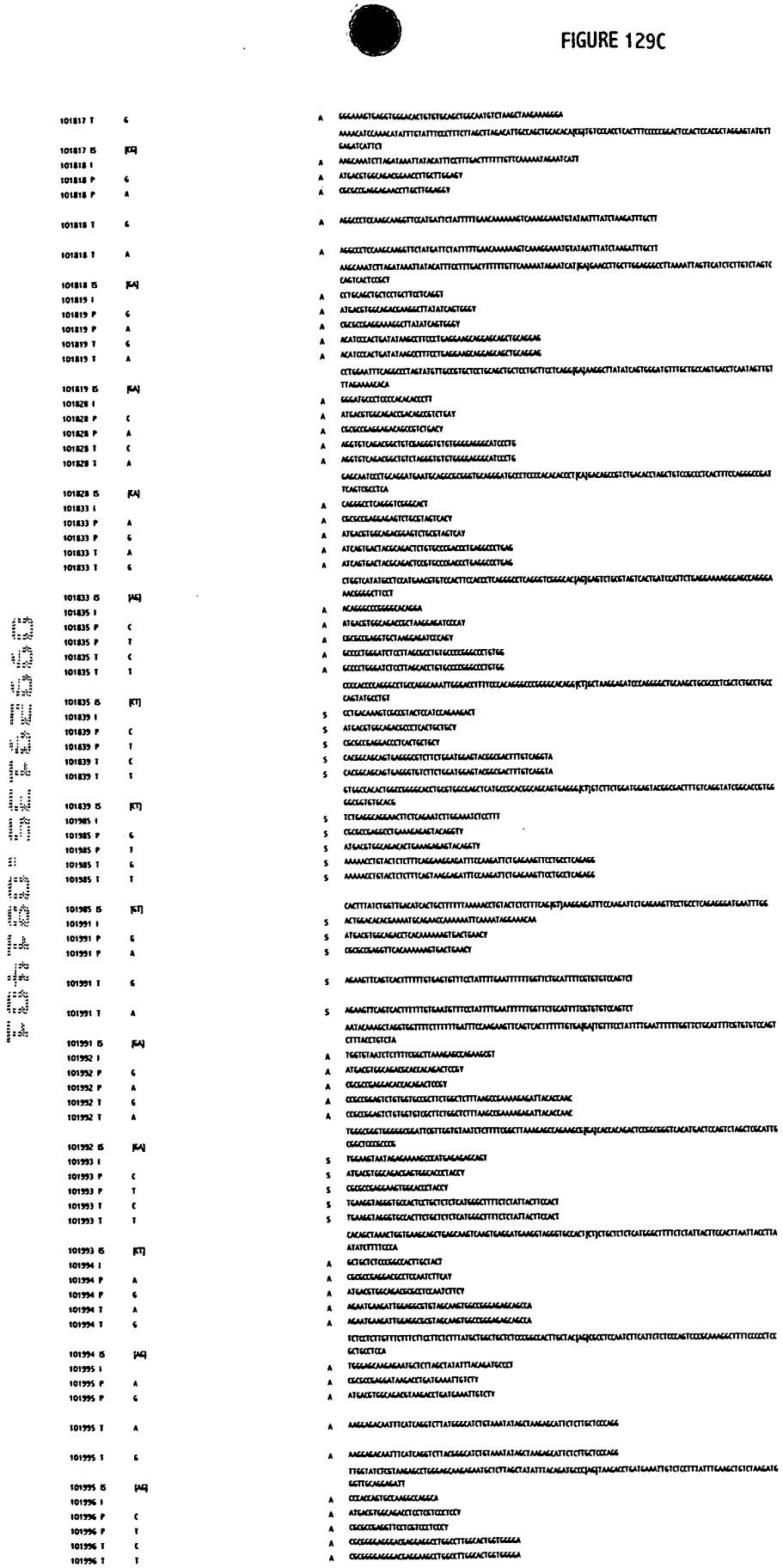


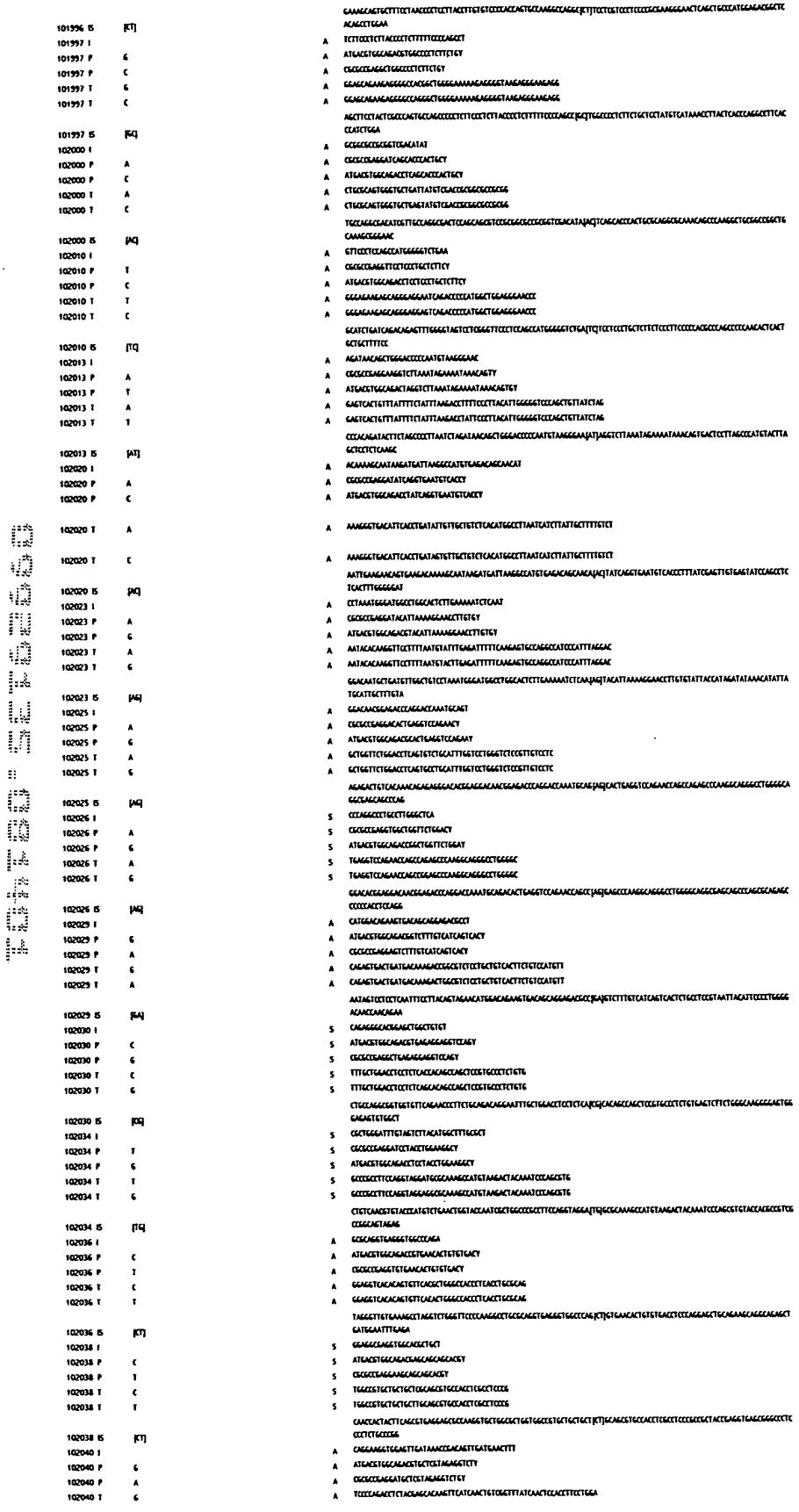
FIGURE 129C







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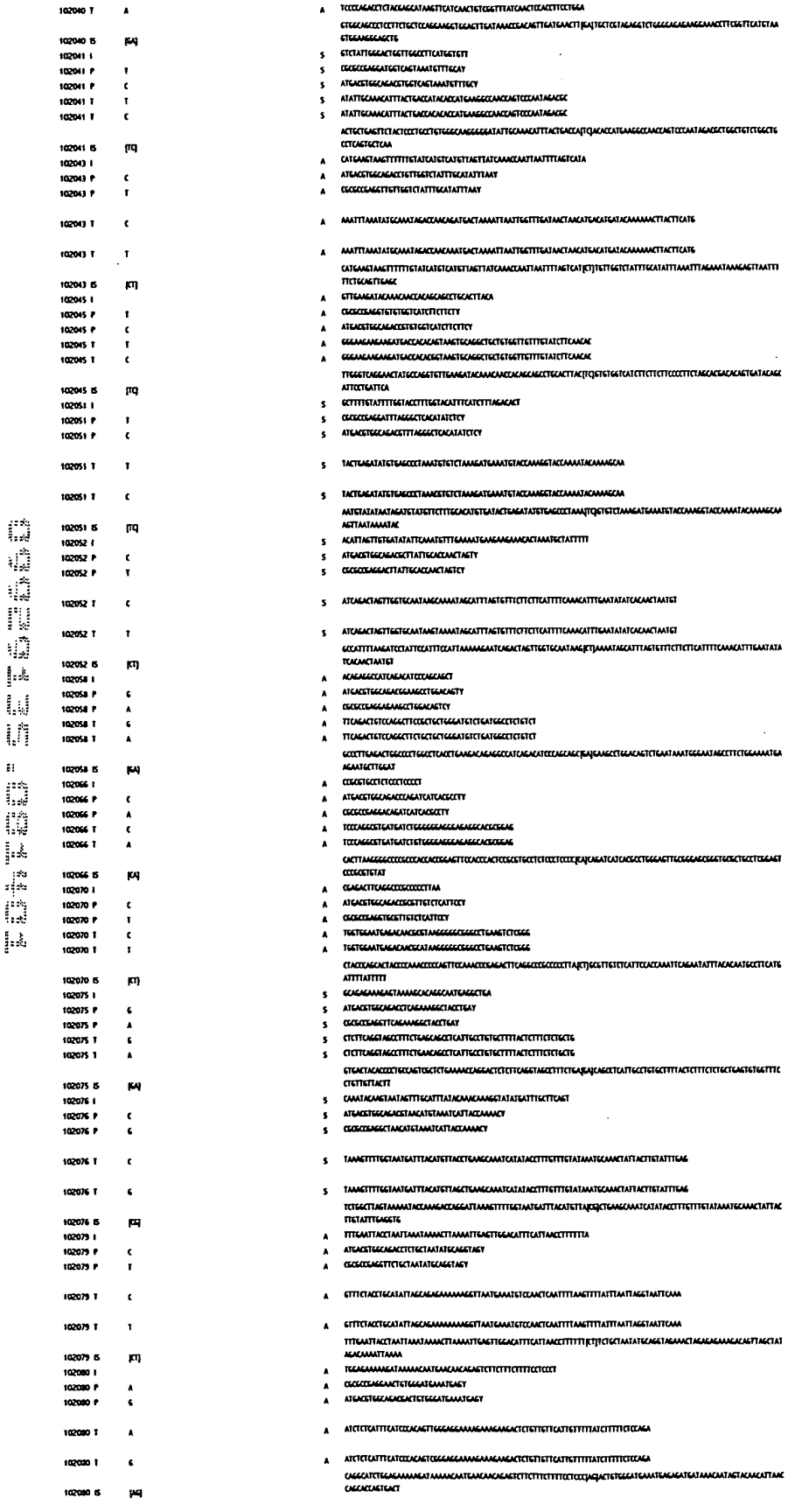
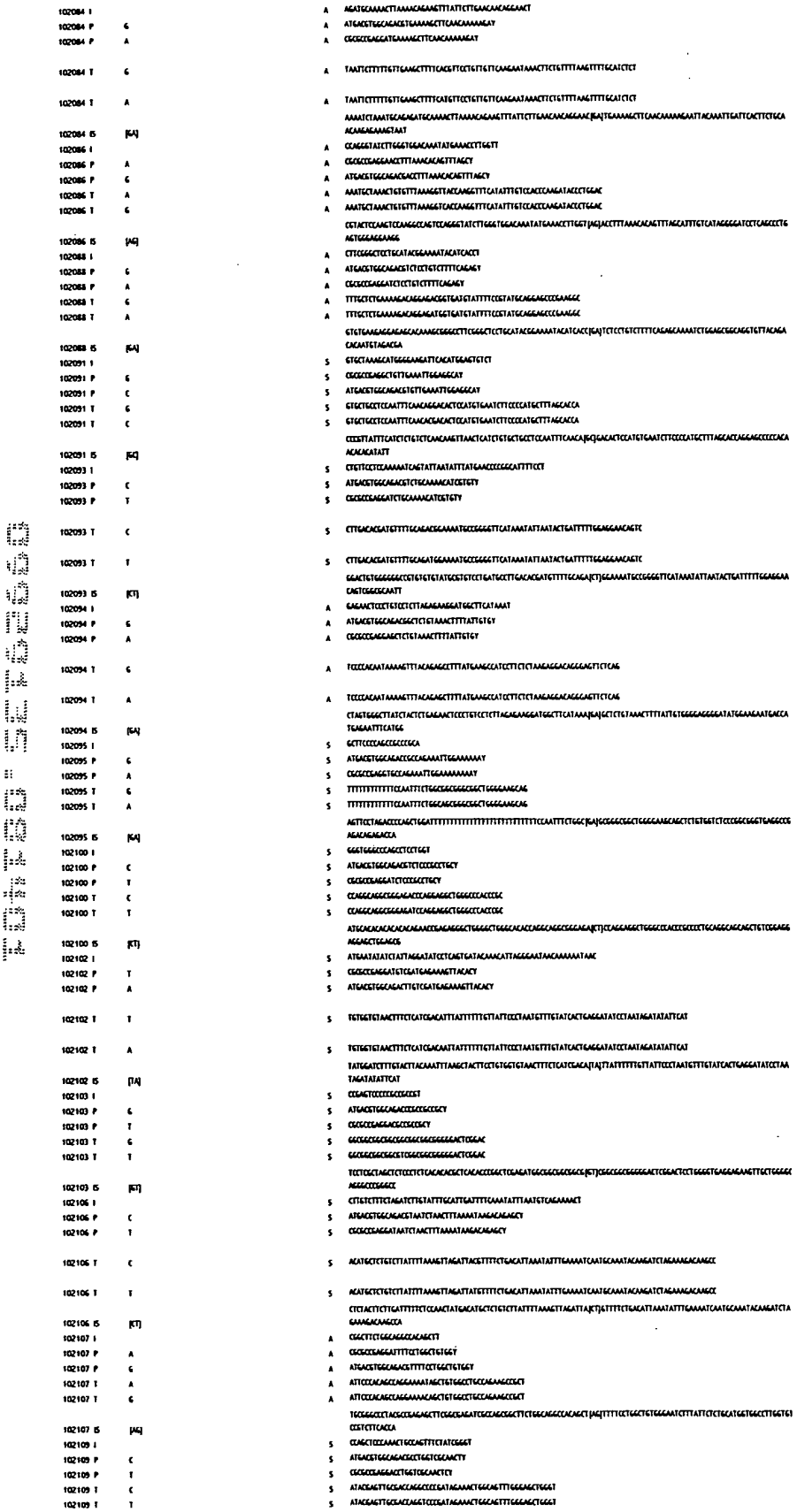


FIGURE 129C



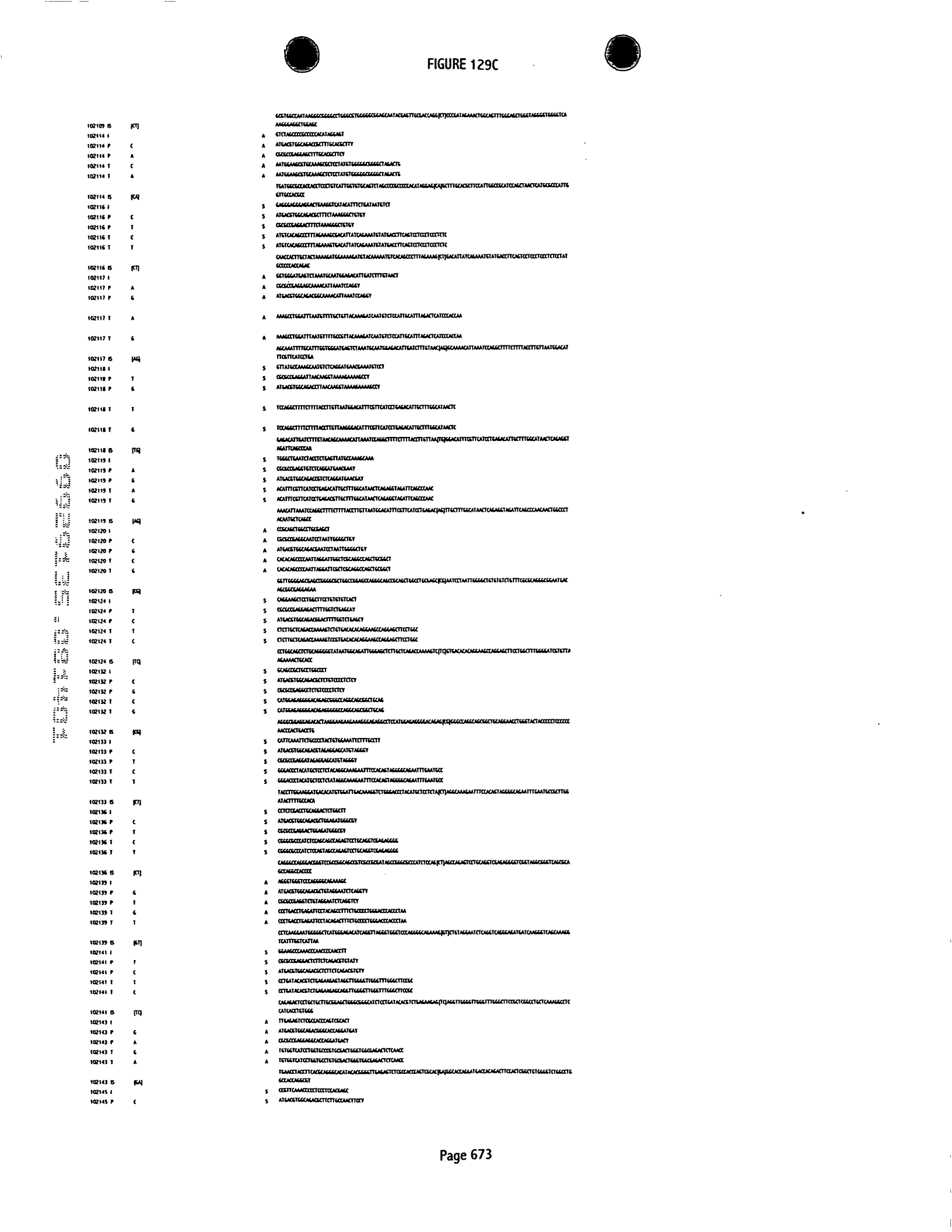
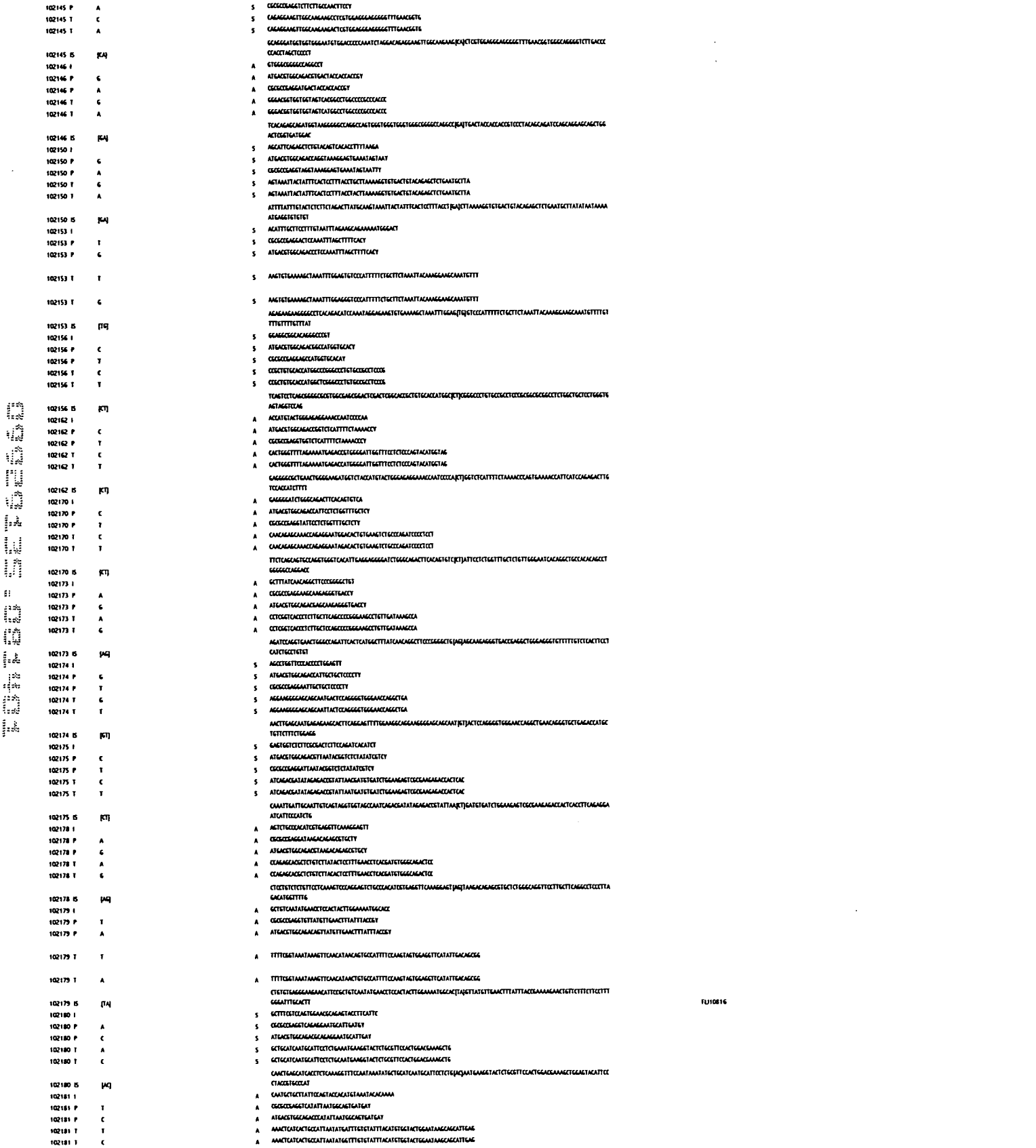
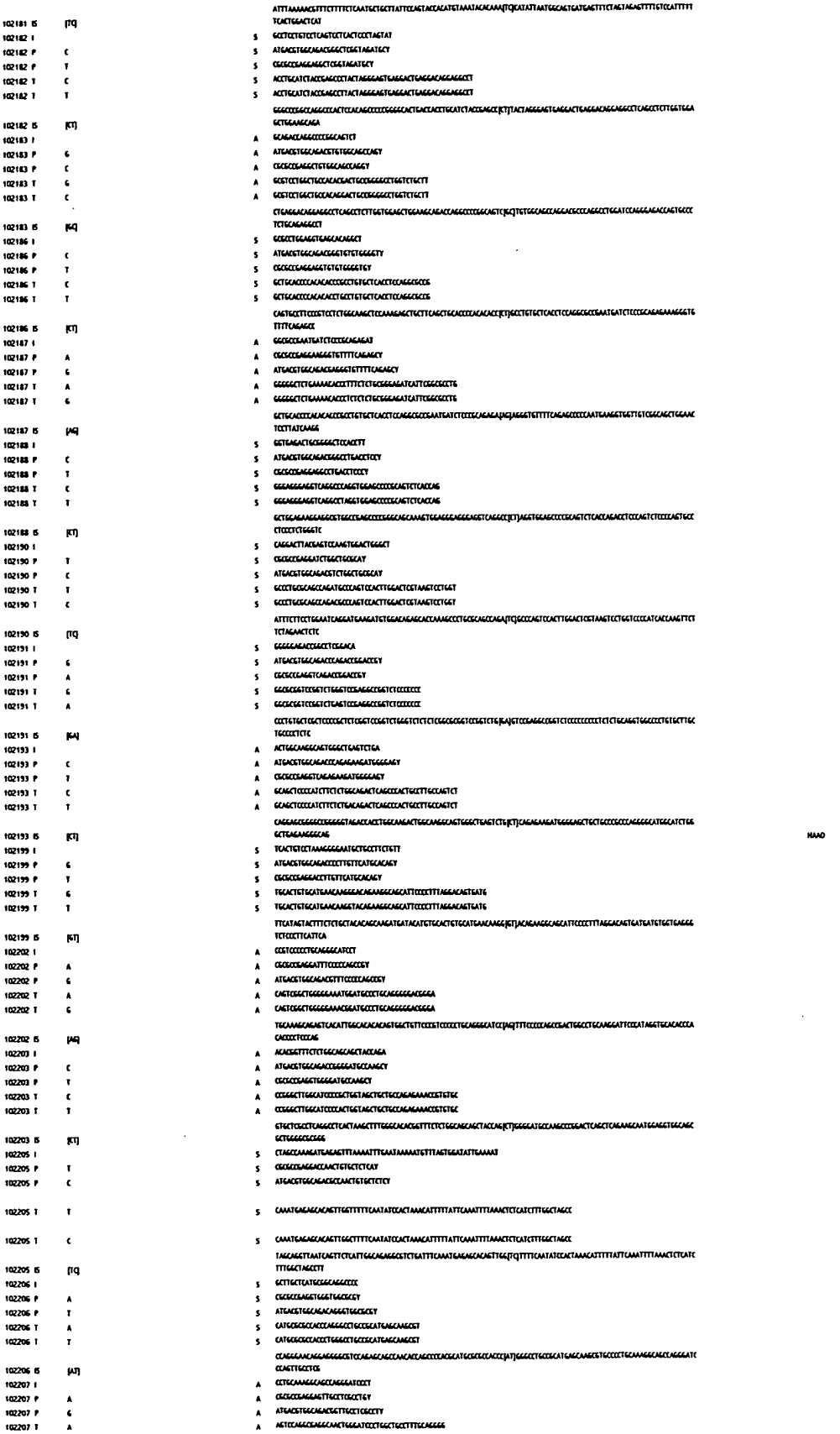


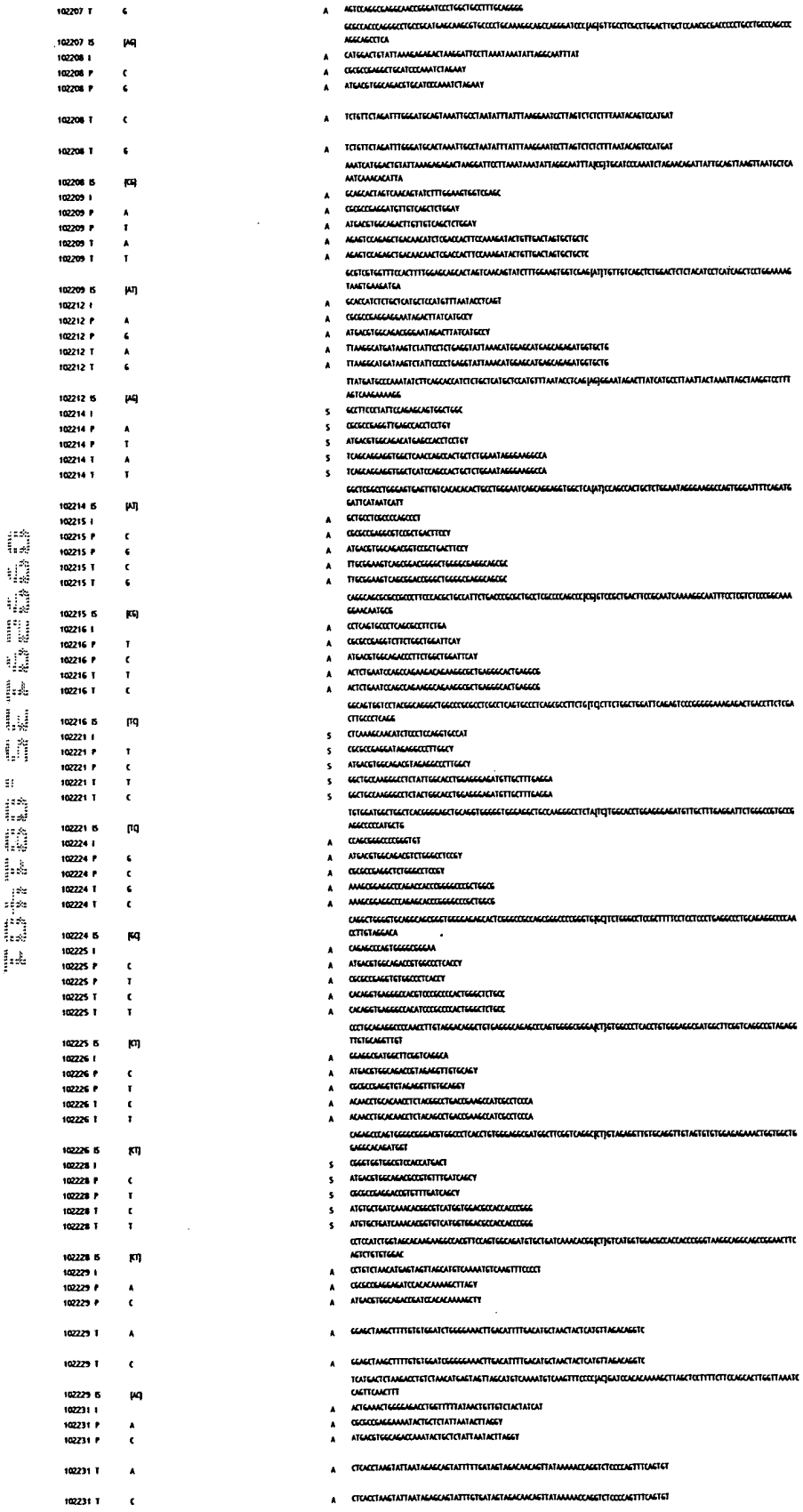
FIGURE 129C



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FIGURE 129C





Unpublished U.S. Patent Application

FIGURE 129C

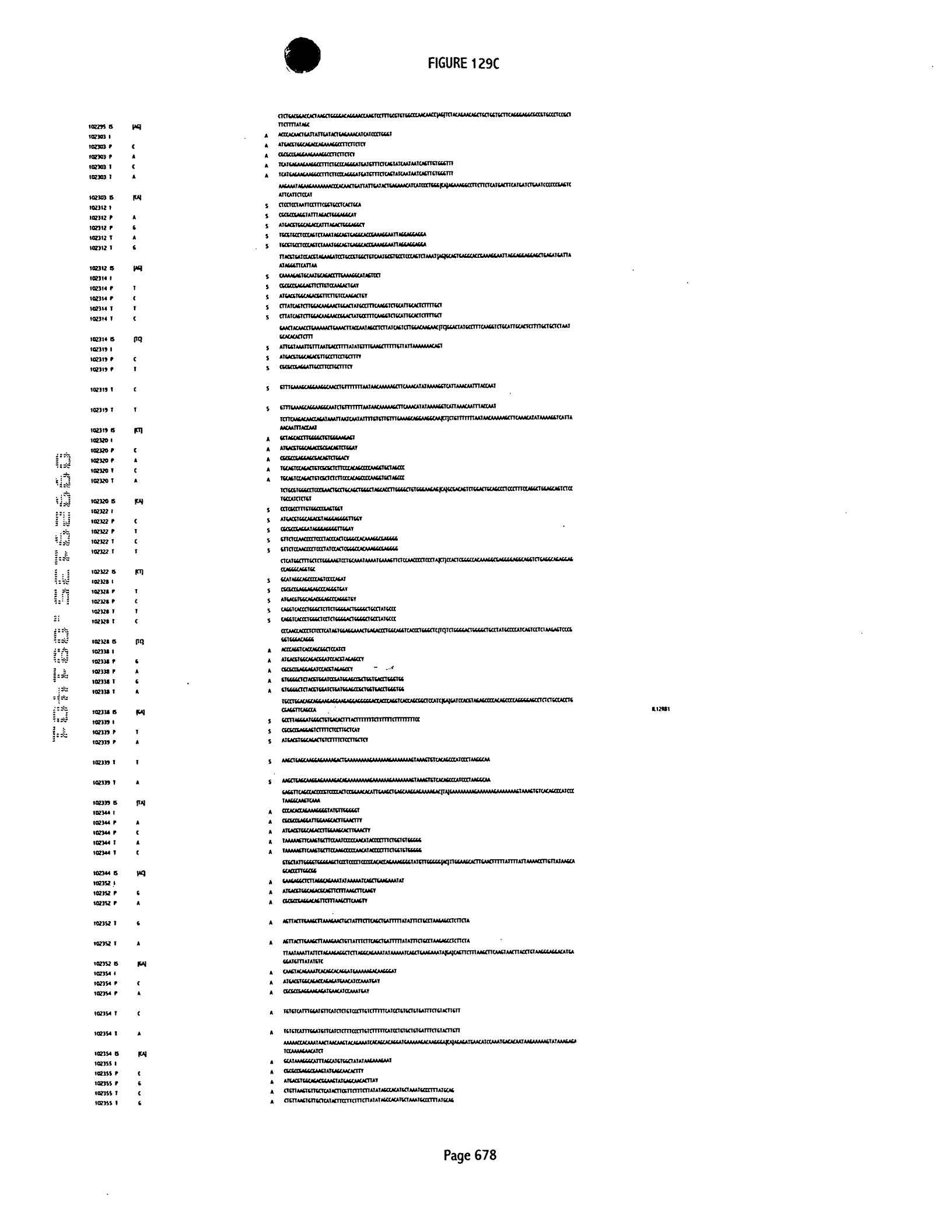
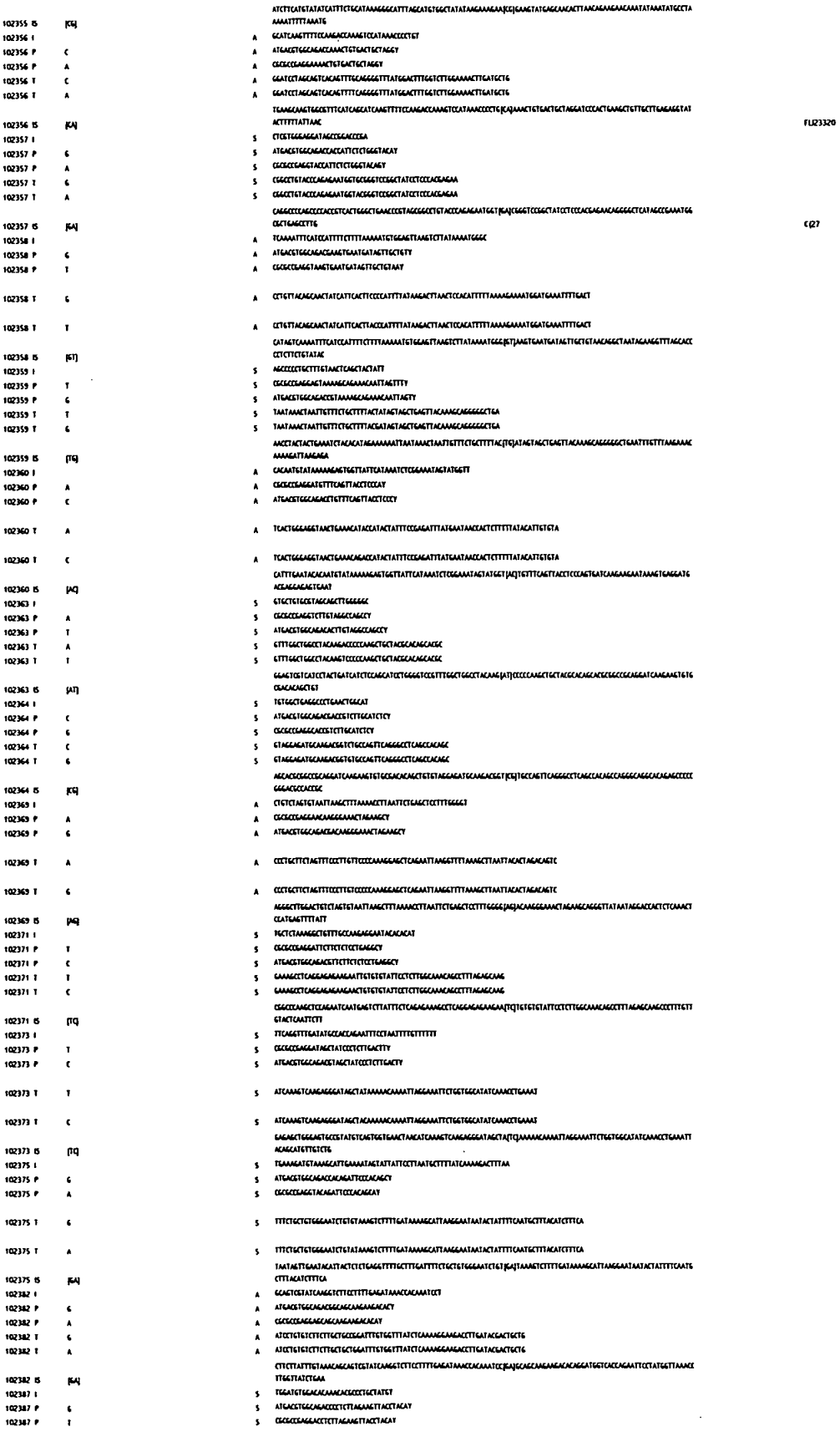


FIGURE 129C





Confidential Information Subject to Protective Order

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102387 IS	(GT)		TGGTAATAAAATTACAAGTAAATGATAGGCAGAGATACCTTGTAGGTAACTTCTAAGAGG(GT)CATAGCAGGGCGTGTTTGTGTCCACATCCACAGGCACTAGAAGCCT GGGCTCCGCGCCA
102388 I		S	GGATTTTTGAGAGTGATTGATTTTATAAGTGGTCAGTTTGATAGTAAATATTTTCATT
102388 P	C	S	ATGACGTGGCAGAGGTATGATACTTTTTACCTCCCTY
102388 P	T	S	CGCGCCGAGGATTATGATACTTTTTACCTCCCTY
102388 T	C	S	TTACAGGGAGGTAAAAAGTATCATAACATGAAAATATTTACTATCAAACTGACCACTTATAAAATCAATCACTCTCAAAAATCCCT
102388 T	T	S	TTACAGGGAGGTAAAAAGTATCATAATATGAAAATATTTACTATCAAACTGACCACTTATAAAATCAATCACTCTCAAAAATCCCT
102388 IS	(CT)		AATTCTTTACTTTAGTCTTCACAGTGAAGAGGTTTTACAGGGAGGTAAAAAGTATCATAA(CT)ATGAAAATATTTACTATCAAACTGACCACTTATAAAATCAATCACT CTCAAAAATCCCTT
102393 I		A	GAGACATGACTATTGGGCAGCTACAAGTGATAGTCAATGATCTA
102393 P	C	A	ATGACGTGGCAGACCCATTCCCAGATAGAAAGTAAGY
102393 P	T	A	CGCGCCAAGGTCATTCCCAGATAGAAAGTAAGY
102393 T	C	A	TACACTTACTTTCTATCTGGGAATGAGATCATTGACTATCACTTGTAGCTGCCCAATAGTCATGTCTCTC
102393 T	T	A	TACACTTACTTTCTATCTGGGAATGAAGATCATTGACTATCACTTGTAGCTGCCCAATAGTCATGTCTCTC
102393 IS	(CT)		AAAACCCACCGACCTGAGAGACATGACTATTGGGCAGCTACAAGTGATAGTCAATGATCT(CT)CATTCCCAGATAGAAAGTAAGTGTAAGATATGCTTGAAAATAGGAT ATTCAATGTAAAAC
102399 I		A	TGGCAAGTTTTATTGTGAGTTTTTCTAATTATGAAGCAAAATTTCTTTTCTCCACCAC
102399 P	T	A	CGCGCCAAGGTGCTTTATGTGATAGTATTTAAAATTGY
102399 P	G	A	ATGACGTGGCAGACGGCTTTATGTGATAGTATTTAAAATTGY
102399 T	T	A	ACATCAATTTTAAATACTATCACATAAAGCATGGTGGAGAAAAGAAATTTTGCTTCATAATTAGAAAAACTCACAATAAAACTTGCCAAG
102399 T	G	A	ACATCAATTTTAAATACTATCACATAAAGCCTGGTGGAGAAAAGAAATTTTGCTTCATAATTAGAAAAACTCACAATAAAACTTGCCAAG
102399 IS	(TG)		TCTTGGCAAGTTTTATTGTGAGTTTTTCTAATTATGAAGCAAAATTTCTTTTCTCCACCA(TG)GCTTTATGTGATAGTATTTAAAATTGATGTGAGTTATTATGTCAAA AAAACTGATCTATT
102402 I		A	CAGTCAGTTTACTGATCATATCCACTTAGTTGTGGTCTTCTAT
102402 P	G	A	ATGACGTGGCAGACGGAGAAGTGAAGATAACAAATCY
102402 P	C	A	CGCGCCGAGGCGAGAAGTGAAAGATAACAAATY
102402 T	G	A	CAAAGATTTTGTTATCTTTCACTTCTCCTAGAAGACCACAACTAAGTGGATATGATCAGTAAACTGACTGTT
102402 T	C	A	CAAAGATTTTGTTATCTTTCACTTCTCGTAGAAGACCACAACTAAGTGGATATGATCAGTAAACTGACTGTT
102402 IS	(GC)		TCTGTATTTAAGTAAGAACAGTCAGTTTACTGATCATATCCACTTAGTTGTGGTCTTCTA(GC)GAGAAGTGAAAGATAACAAAATCTTTGATAATAAGCATAATAAGTA GGAAATAAACATC
102403 I		S	ACATAGCTTTAGCAATTTGTTTTGTGTCTTAGGCCTCTAAT
102403 P	C	S	ATGACGTGGCAGACGGGTTTTGTGATACGGCY
102403 P	T	S	CGCGCCGAGGAGGTTTTGTGATACGGCY
102403 T	C	S	AAAAGCCGTATCACAAAACCCTTAGAGGCCTAAGACACAAAACAAATTGCTAAAGCTATGTTC
102403 T	T	S	AAAAGCCGTATCACAAAACTTTAGAGGCCTAAGACACAAAACAAATTGCTAAAGCTATGTTC
102403 IS	(CT)		AGTACTTAGAAATTTACACAGGCAAAACTGCTAAGAAGCCAAAAGCCGTATCACAAAACC(CT)TTAGAGGCCTAAGACACAAAACAAATTGCTAAAGCTATGTTCTCAT AAGTCAAAATCTAA
102404 I		A	AACTGTTCATGGCTTAGCAGTTTTGCAGAACAATATT
102404 P	A	A	CGCGCCGAGAATCAAGAACACAGAAACATCY
102404 P	G	A	ATGACGTGGCAGACGATCAAGAACACAGAAACATCY
102404 T	A	A	GAAGGATGTTTCTGTGTTCTTGATTATATTGTTCTGCAAAACTGCTAAGCCATGAACAGTTTT
102404 T	G	A	GAAGGATGTTTCTGTGTTCTTGATCATATTGTTCTGCAAAACTGCTAAGCCATGAACAGTTTT
102404 IS	(AG)		ATAACCATTCTAAGTAGCTAAGAAAACTGTTCATGGCTTAGCAGTTTTGCAGAACAATAT(AG)ATCAAGAACACAGAAACATCCTTCTCATGGTTCCAACAGTCTCTCTA TAACCACACTCCT
102413 I		S	TGTAGAATCAACAATGGCTTTTTGTATTTTGTCTACCAAATTATTTTACTTCTT
102413 P	T	S	CGCGCCGAGGATTGGTTCATTTTCACCAGAY
102413 P	G	S	ATGACGTGGCAGACCTTGGTTCATTTTCACCAGAY
102413 T	T	S	AGTTTCTGGTGAAAATGAACCAATAGAAGTAAAATAATTTGGTAGACAAAATACAAAAAGCCATTGTTGATTCTACATG
102413 T	G	S	AGTTTCTGGTGAAAATGAACCAAGAAAGTAAAATAATTTGGTAGACAAAATACAAAAAGCCATTGTTGATTCTACATG
102413 IS	(TG)		ATAAACTGAATTGCAGAATTTATTATTTTATTCTTTAGTTTCTGGTGAAAATGAACCAA(TG)AGAAGTAAAATAATTTGGTAGACAAAATACAAAAAGCCATTGTTG ATTCTACATGTAATT
102416 I		S	CAACTGGGAAAAAATGCTTGTGTTTAATTTTACATTATTCTCTACTCTCT
102416 P	T	S	CGCGCCGAGGAAATTAATGAAATAAAGGCCTTACTY
102416 P	C	S	ATGACGTGGCAGACGAATTAATGAAATAAAGGCCTTACTY
102416 T	T	S	GTAAAGTAAGGCCTTTATTTCATTAATTTGAGAGTAGAGAATAATGTAAAATTAAACACAAGCATTTTTTCCCAGTTGAT
102416 T	C	S	GTAAAGTAAGGCCTTTATTTCATTAATTCGAGAGTAGAGAATAATGTAAAATTAAACACAAGCATTTTTTCCCAGTTGAT
102416 IS	(TC)		GTCTTCTTCATGTATGTACTACTAGCTTTGCTGTAAAGTAAGGCCTTTATTTCATTAATTT(TC)GAGAGTAGAGAATAATGTAAAATTAAACACAAGCATTTTTTCCCAGT TGATTTCTAACAA
102417 I		A	CCGAGGCTGCTGGCCAGTGCCT
102417 P	A	A	CGCGCCGAGGAGTGCCCTGACGCY
102417 P	G	A	ATGACGTGGCAGACGGTGCCCTGACGCY
102417 T	A	A	GAGGGCGTCAGGGCACTGGCACTGGCAGCAGCCTCGGGG
102417 T	G	A	GAGGGCGTCAGGGCACCGGCACTGGCAGCAGCCTCGGGG
102417 IS	(AG)		CGCCTGGCTGCACTTCCCAGCTCTGGGGTCAGTGTTGCCCCGAGGCTGCTGGCGAGTGCC(AG)GTGCCCTGACGCCCTCCCTCTCCTGCAGGGAAGCCGGAGCTTCCCCGGC AGCCTGGCTCC
102418 I		S	CTCACGCCTGCCCACGTCGGGT
102418 P	G	S	CGCGCCGAGGCAGAGGTACGGTATGGGY
102418 P	C	S	ATGACGTGGCAGACGAGAGGTACGGTATGGGY
102418 T	G	S	GGCACCCATACCGTACCTCTGCCCCAGCTGGGCAGGCGTGAGTT
102418 T	C	S	GGCACCCATACCGTACCTCTCCCCCAGCTGGGCAGGCGTGAGTT
102418 IS	(GC)		ACTGTGTCATAGATCAGGGGGCAGAAGGATGGGCTCTGAGGGCACCCATACCGTACCTCT(GC)CCCGACGTGGGCAGGCGTGAGTTGTCAGTTTAGAGAACTGACCTCTG CATTTTCATGTC
102419 I		A	CTGAAACATGAAGACACCTGGCCCTGTGTCT
102419 P	G	A	ATGACGTGGCAGAGGTCCGGAGTGGGCY
102419 P	A	A	CGCGCCGAGGATCCGGAGTGGGCY
102419 T	G	A	TAGAGCCCACTCCGGACGACACAGGGCCAGGTGGTCTTCATGTTTCAGGG
102419 T	A	A	TAGAGCCCACTCCGGATGACACAGGGCCAGGTGGTCTTCATGTTTCAGGG
102419 IS	(GA)		TGACACAGGGTCCCTCTGGCCCCAGCCCCTGAAACATGAAGACCACCTGGCCCTGTGTC(GA)TCCCGAGTGGGCTCTATATAGTTGAGGGCAGGGCGTGAGTGGGACA GTGTCTGTGAGC
102422 I		S	CATCACCATCACCCAGAGAGGGAGAGCT
102422 P	C	S	ATGACGTGGCAGACGTTGTGGACTTCAGCAAY
102422 P	T	S	CGCGCCGAGGATTGTGGACTTCAGCAAGY
102422 T	C	S	ACCGCTTGCTGAAGTCCACAACGCTCTCCCTCTCTGGGGTGATGGTGATGGC
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FIGURE 129C

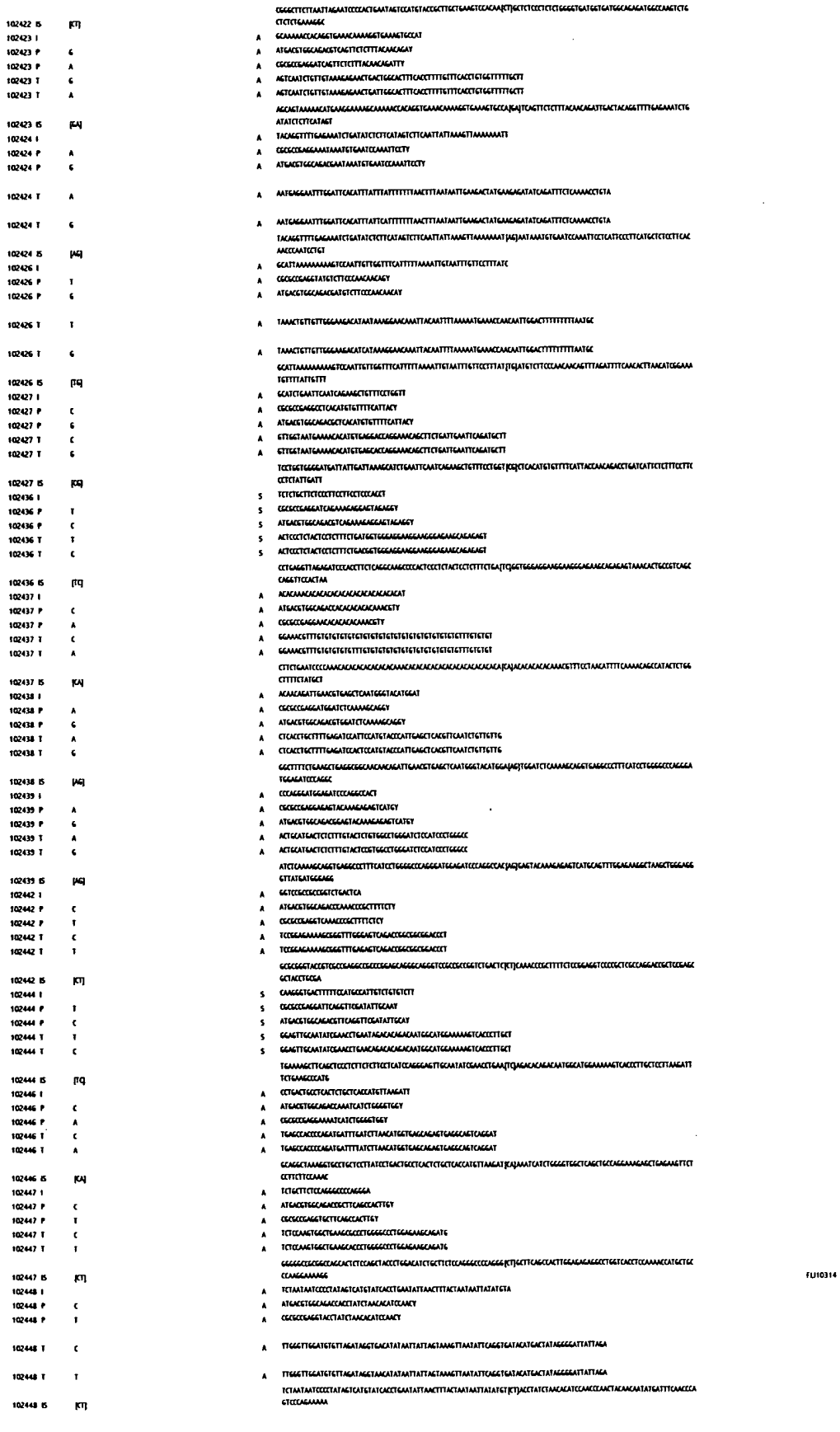
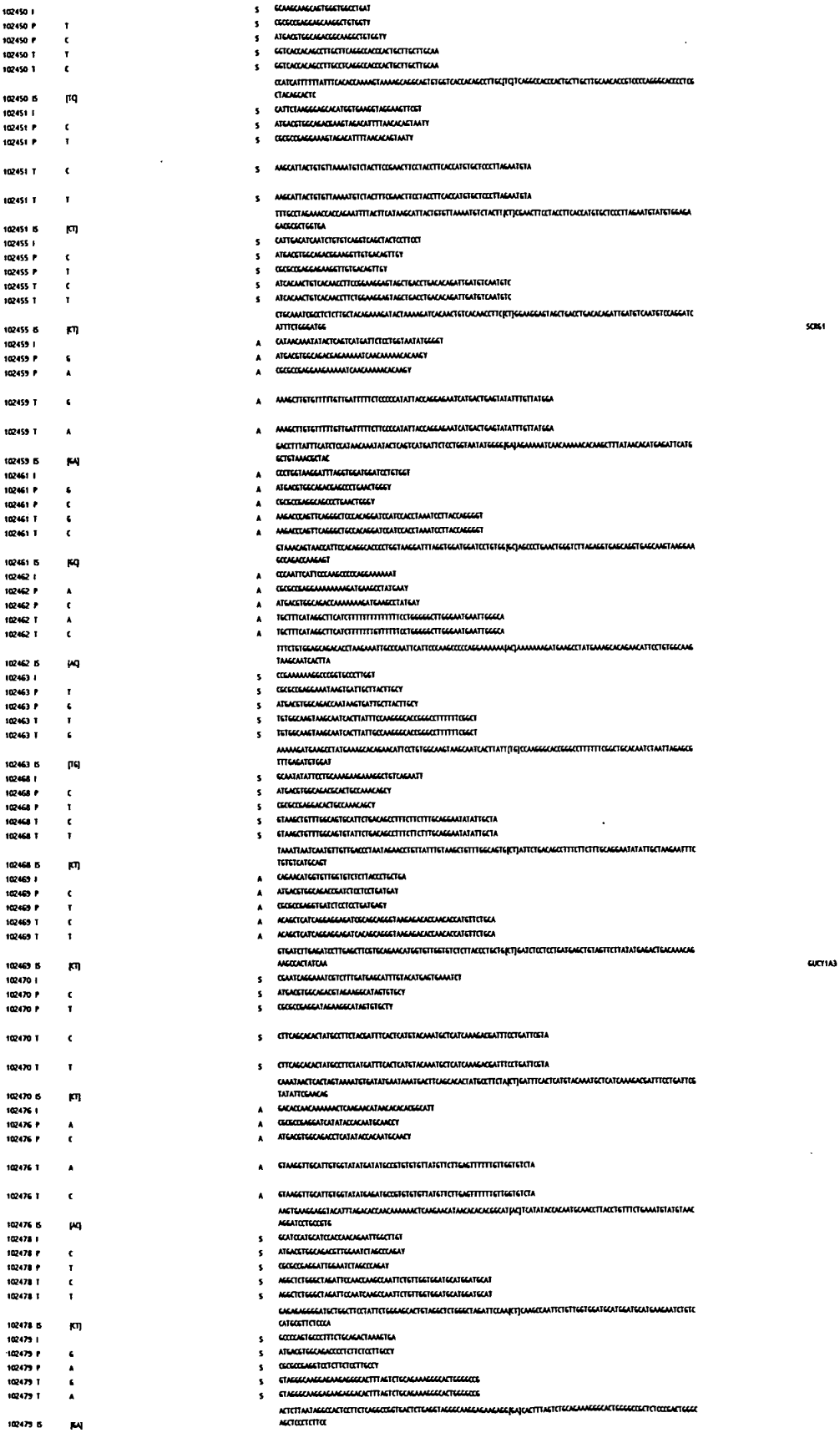


FIGURE 129C



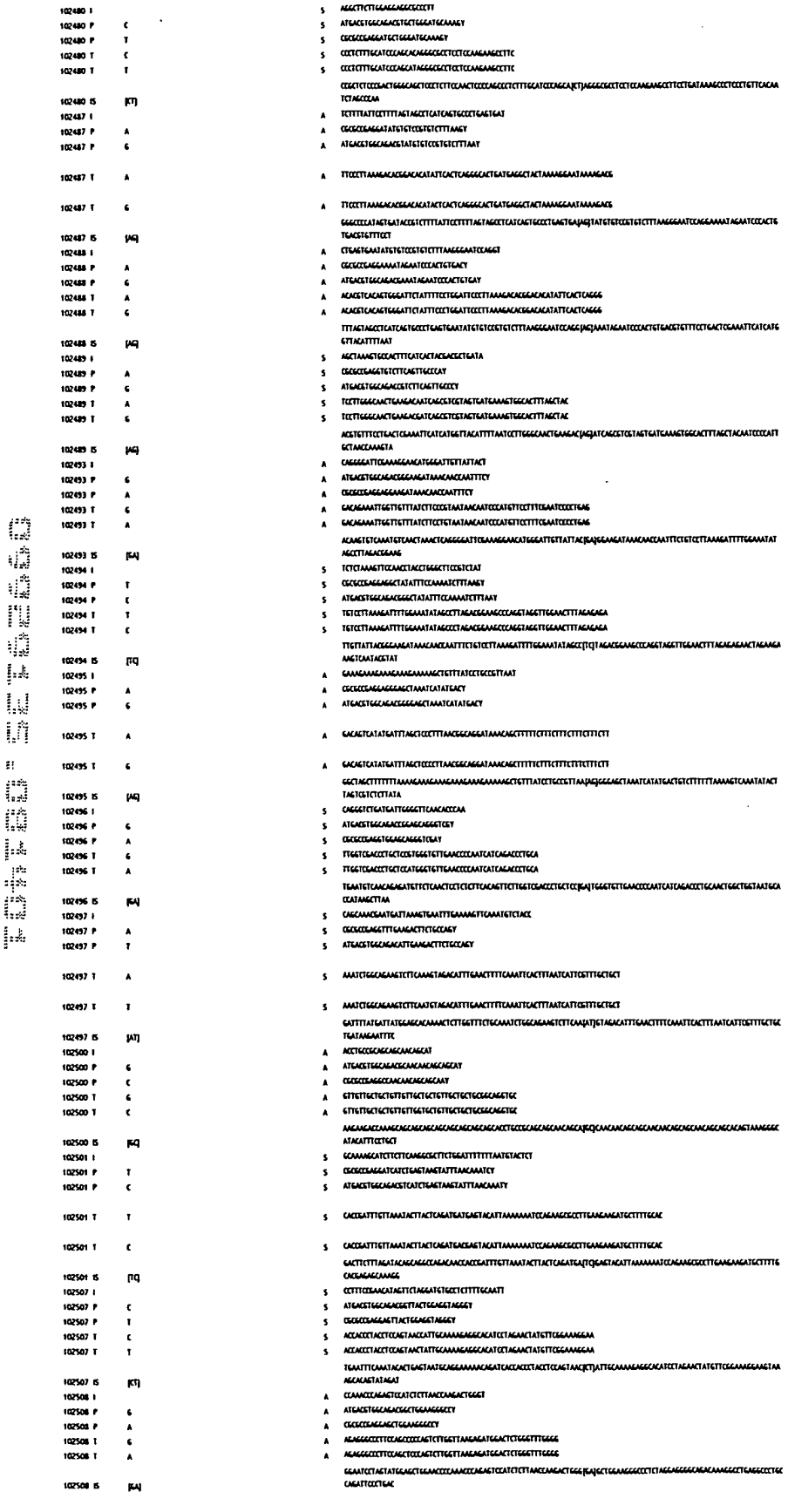
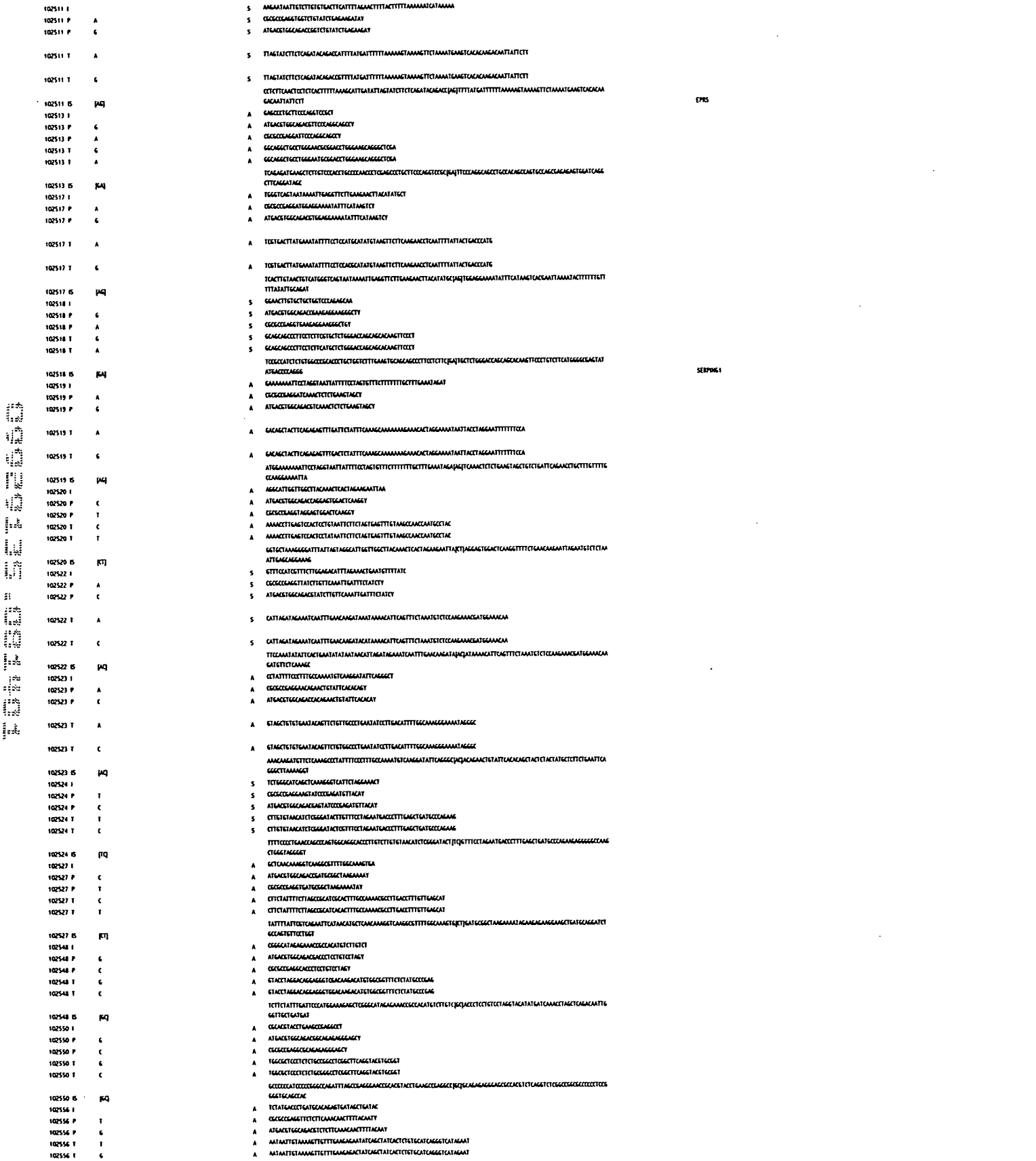
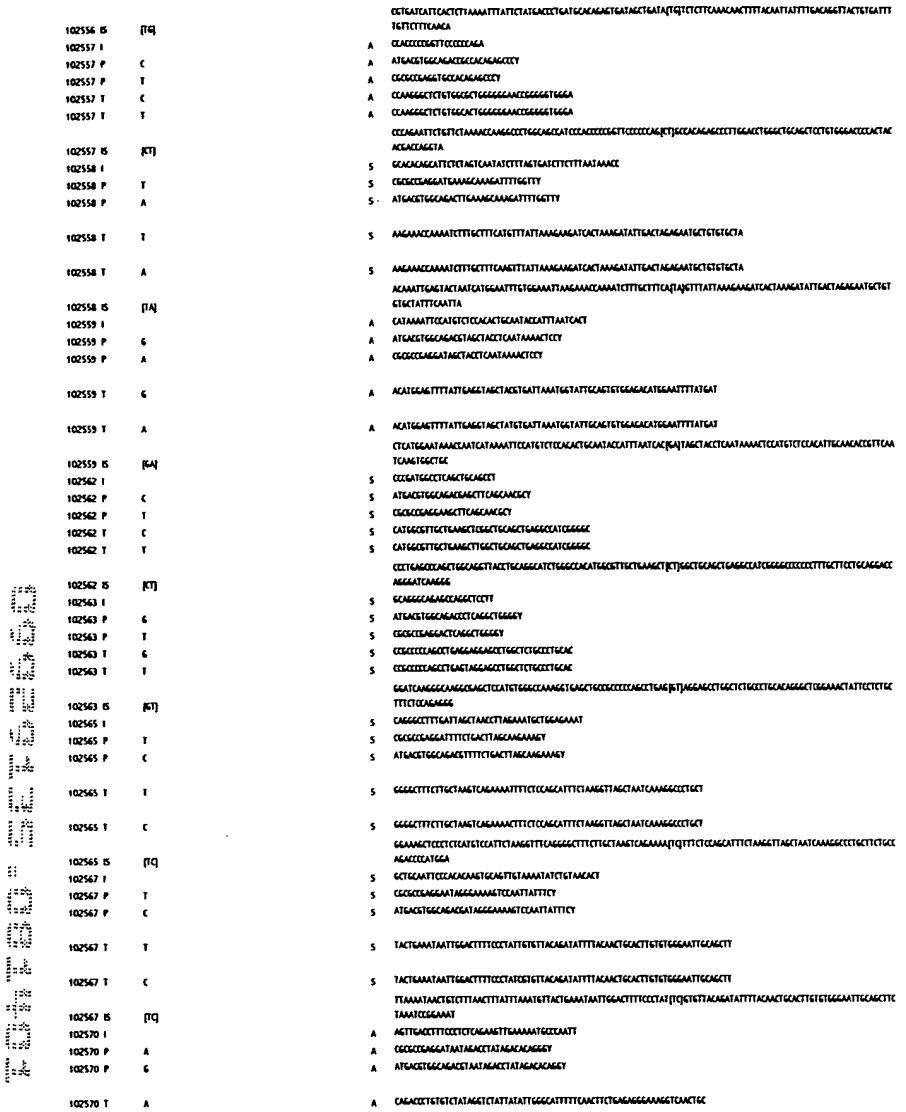


FIGURE 129C





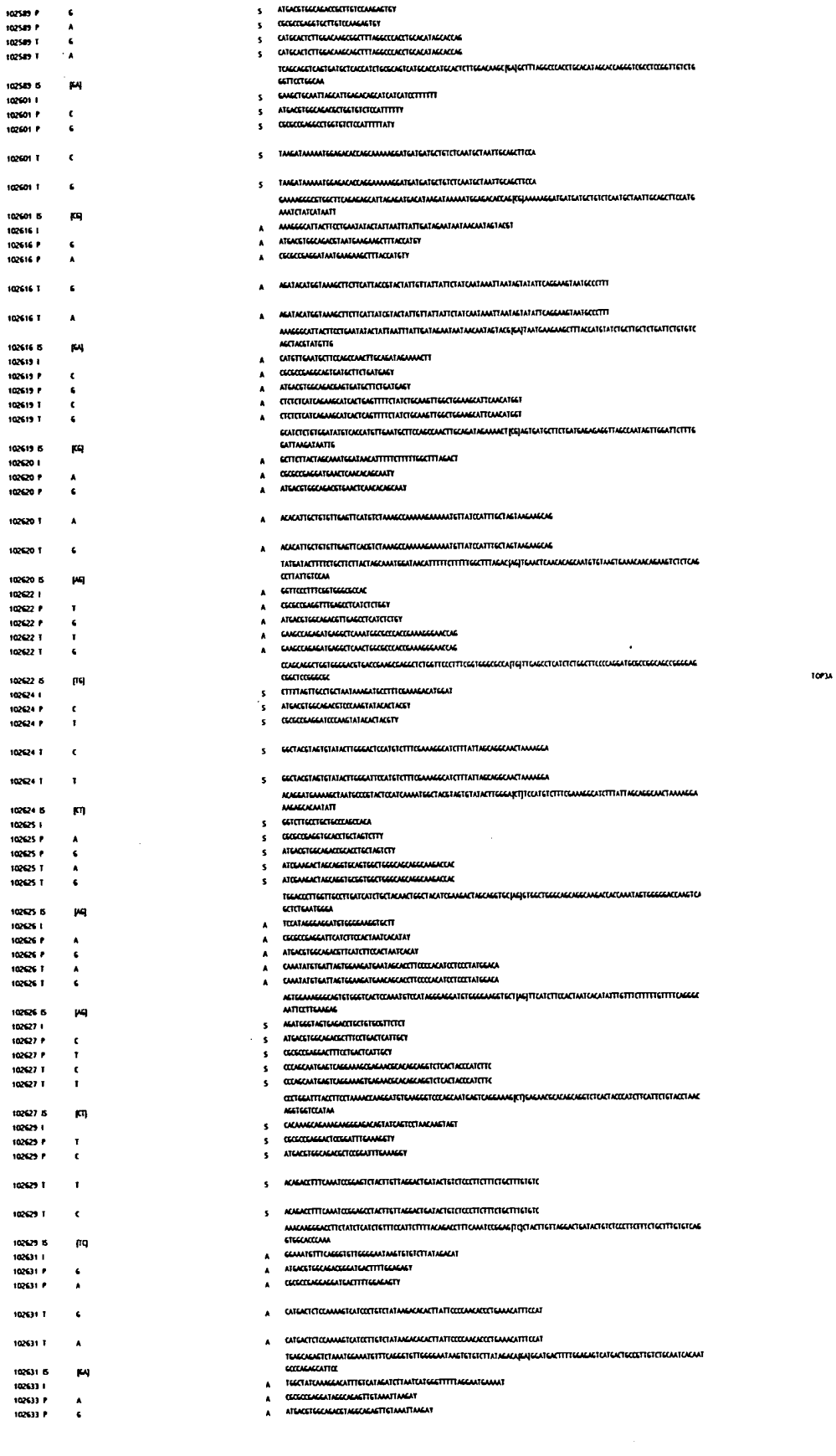
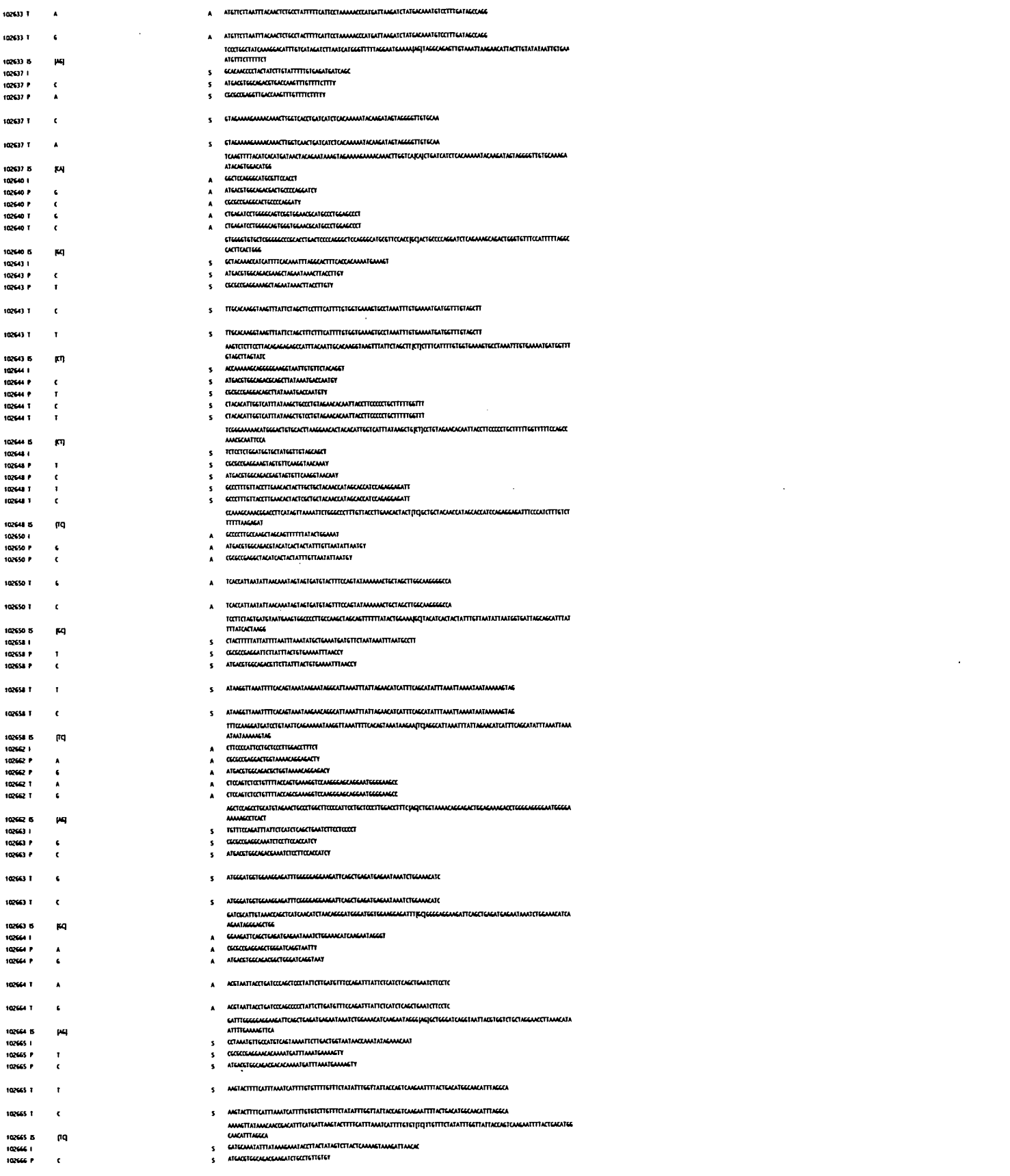
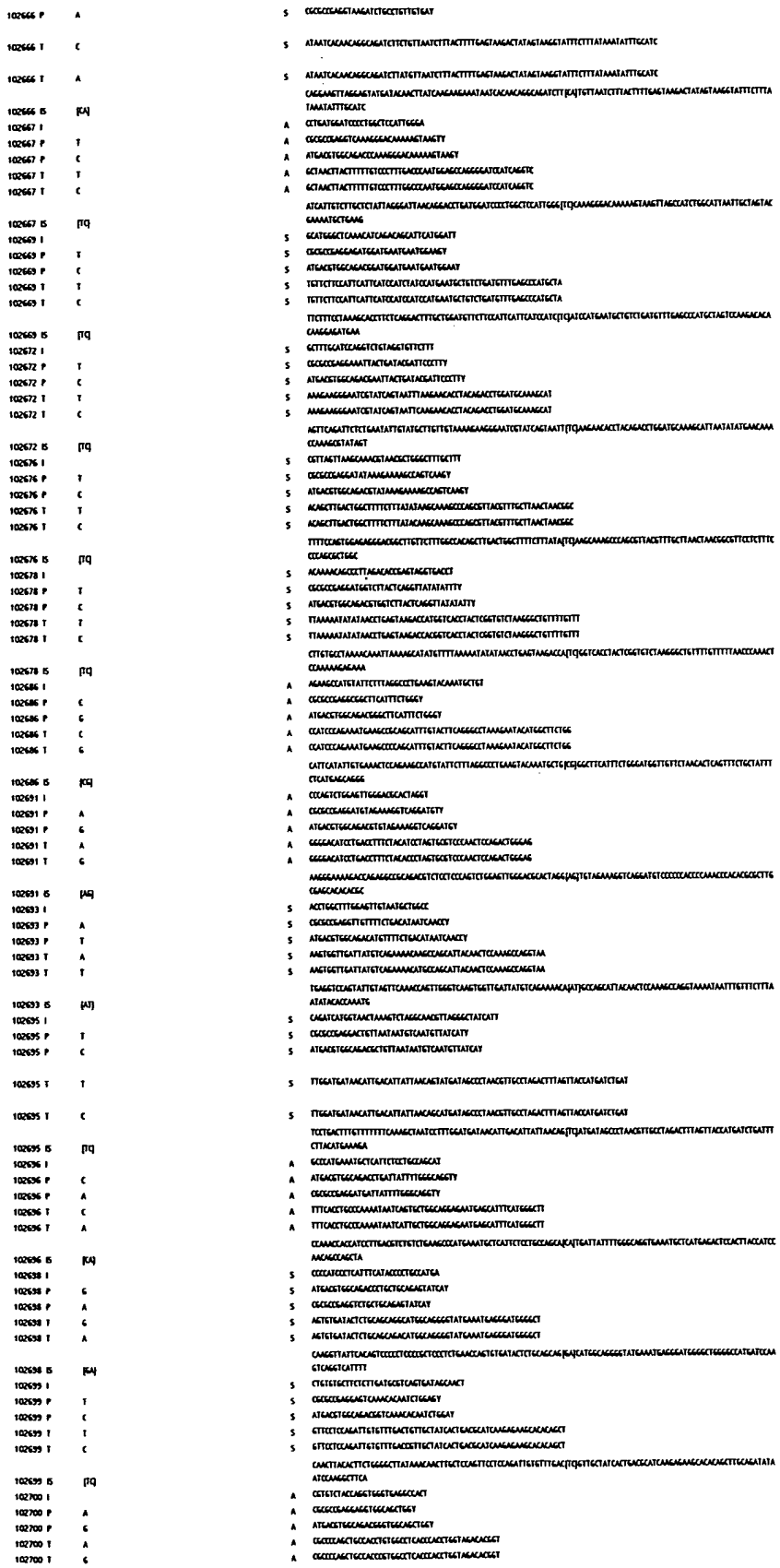


FIGURE 129C





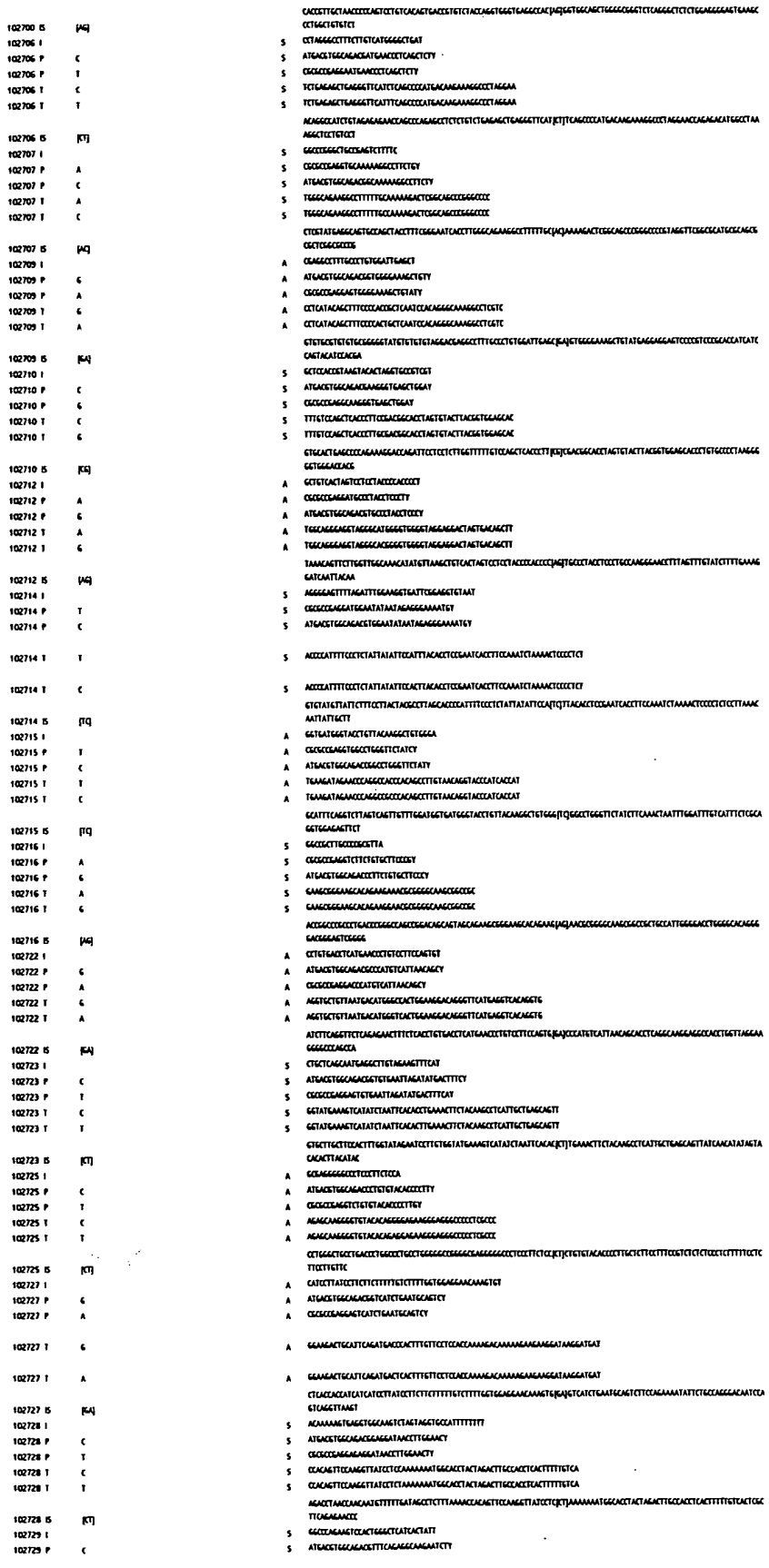




FIGURE 129C

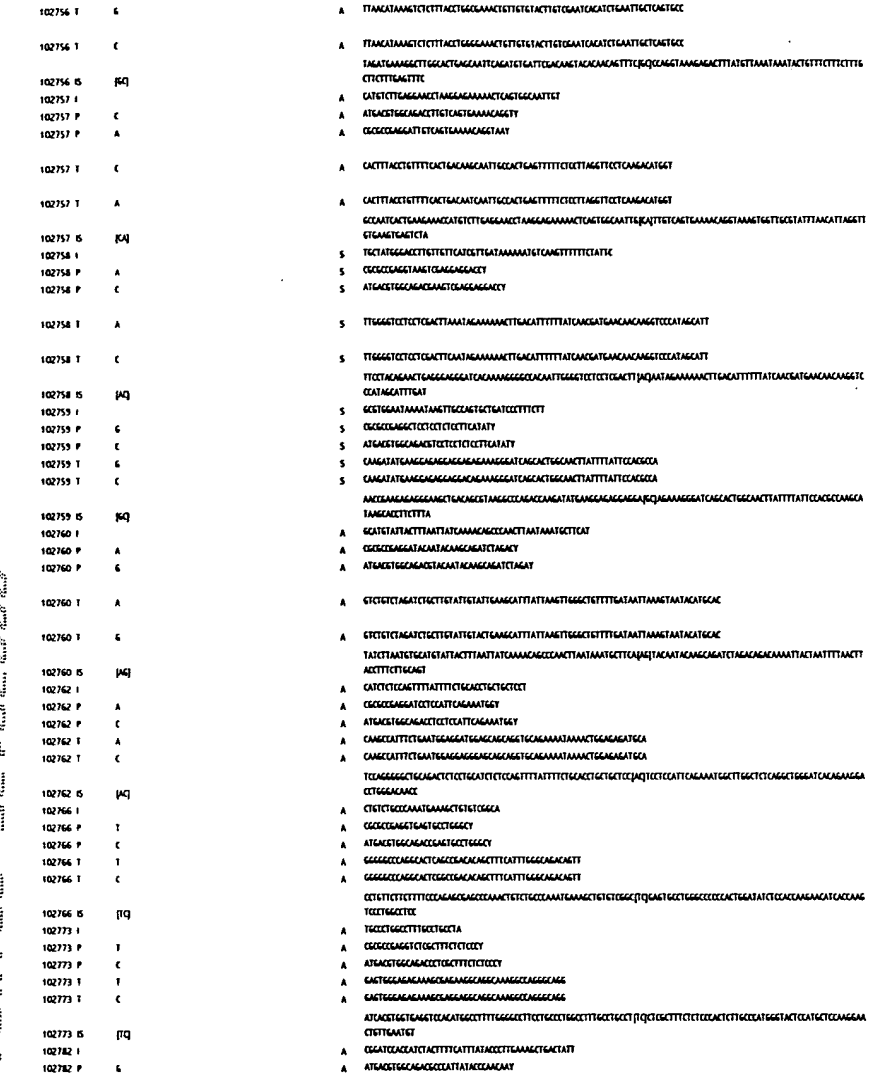
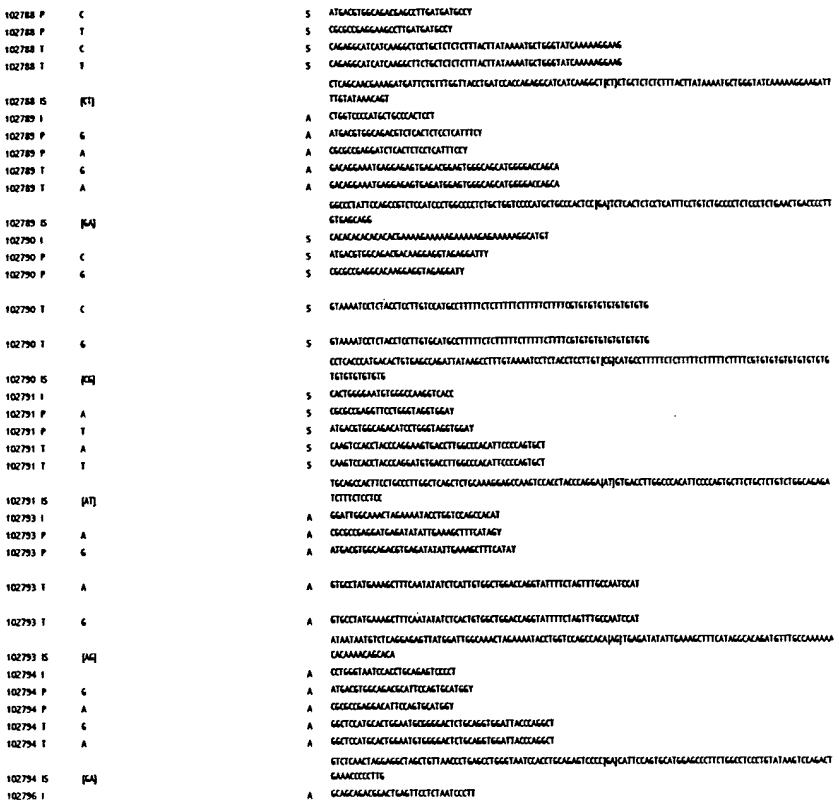


FIGURE 129C



Attorney Docket No. 10191-2040

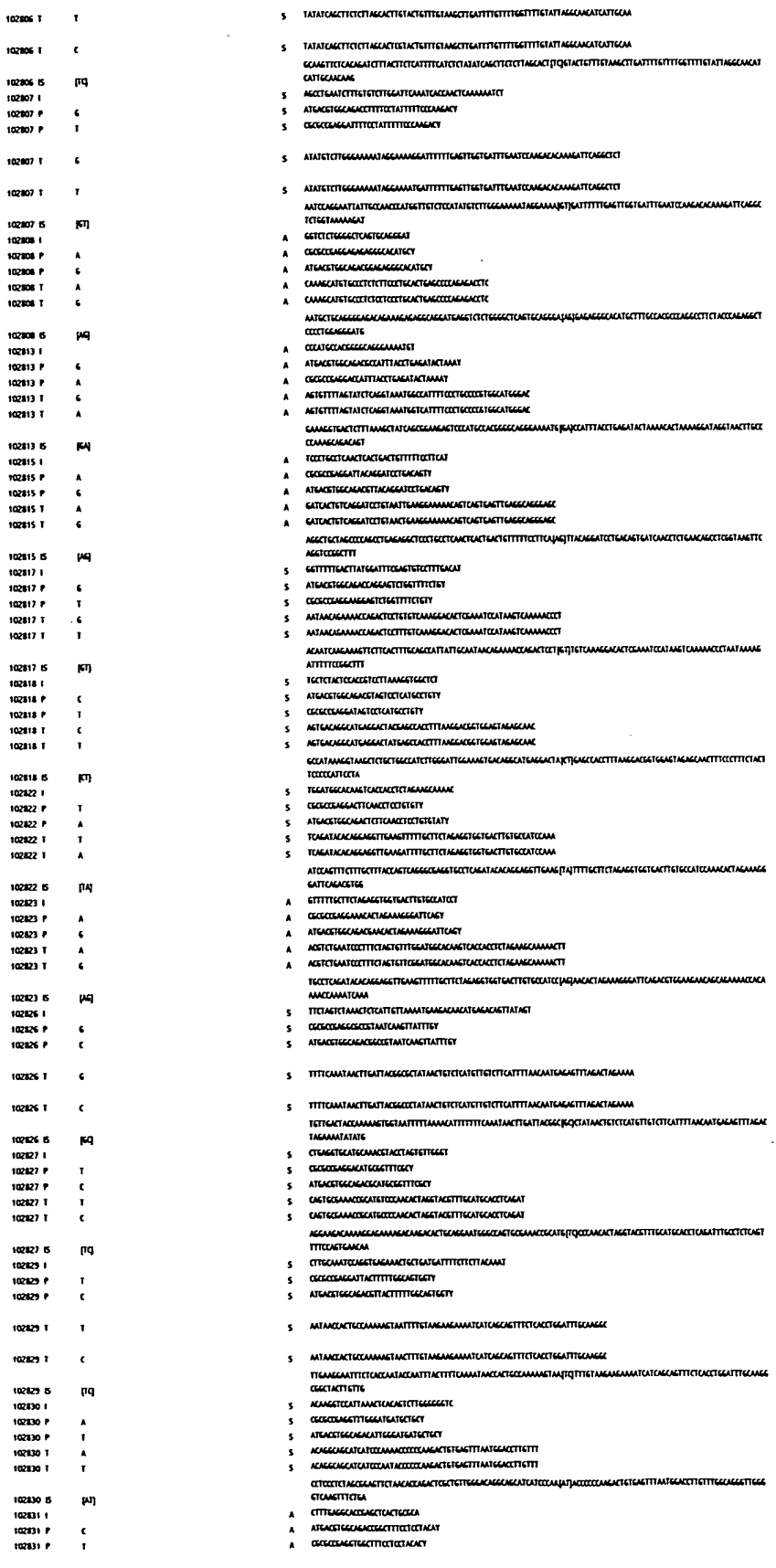
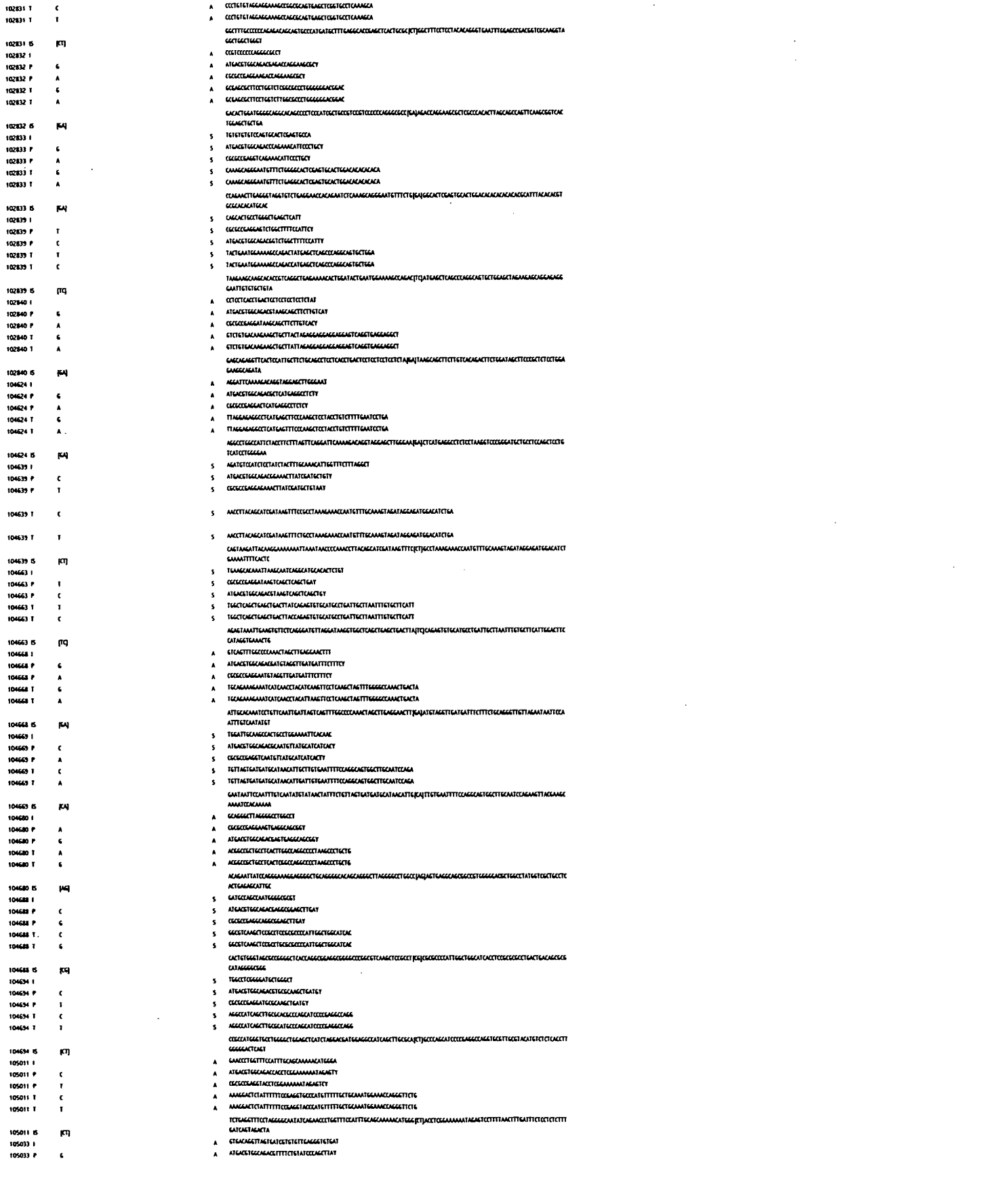
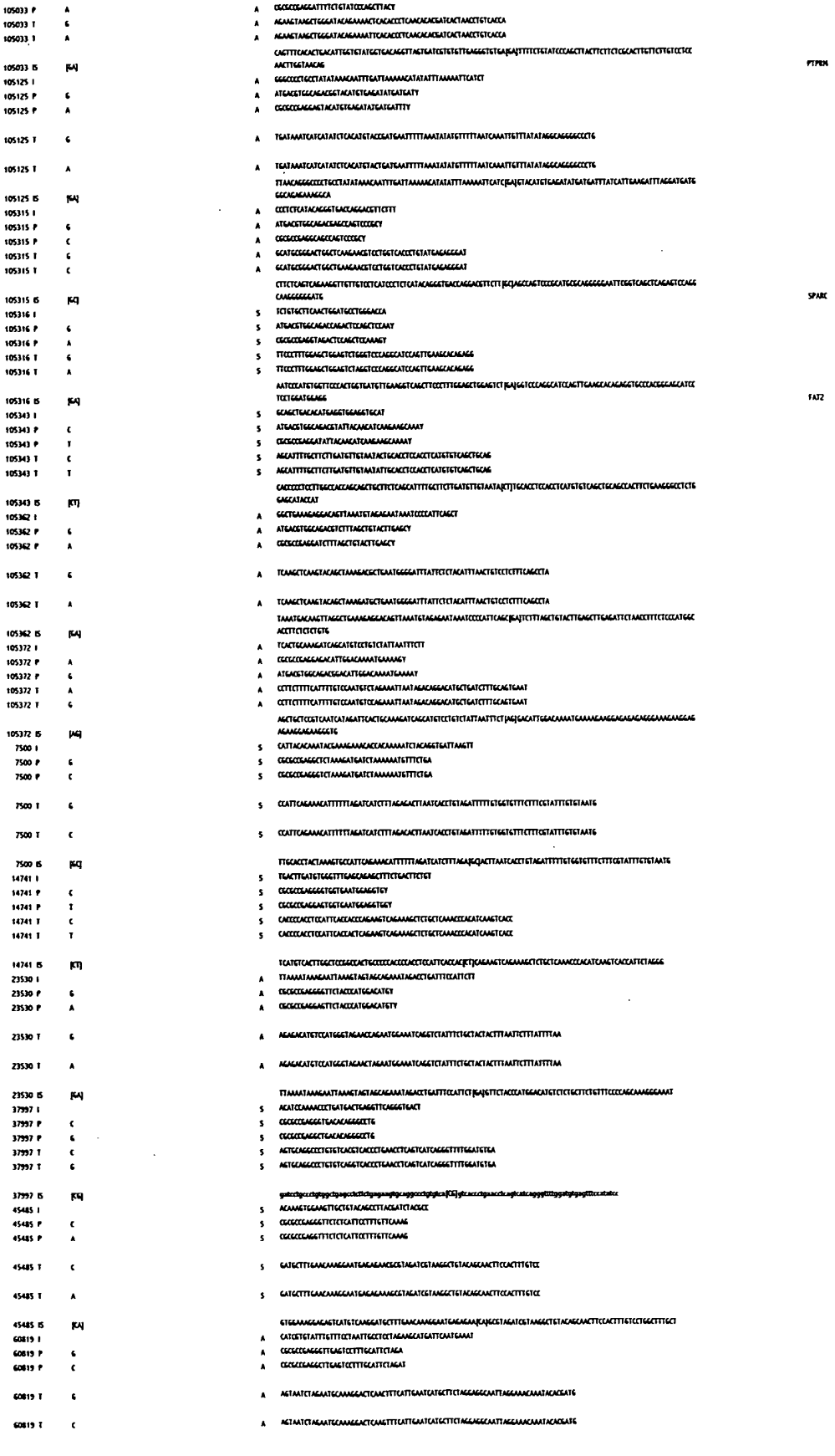
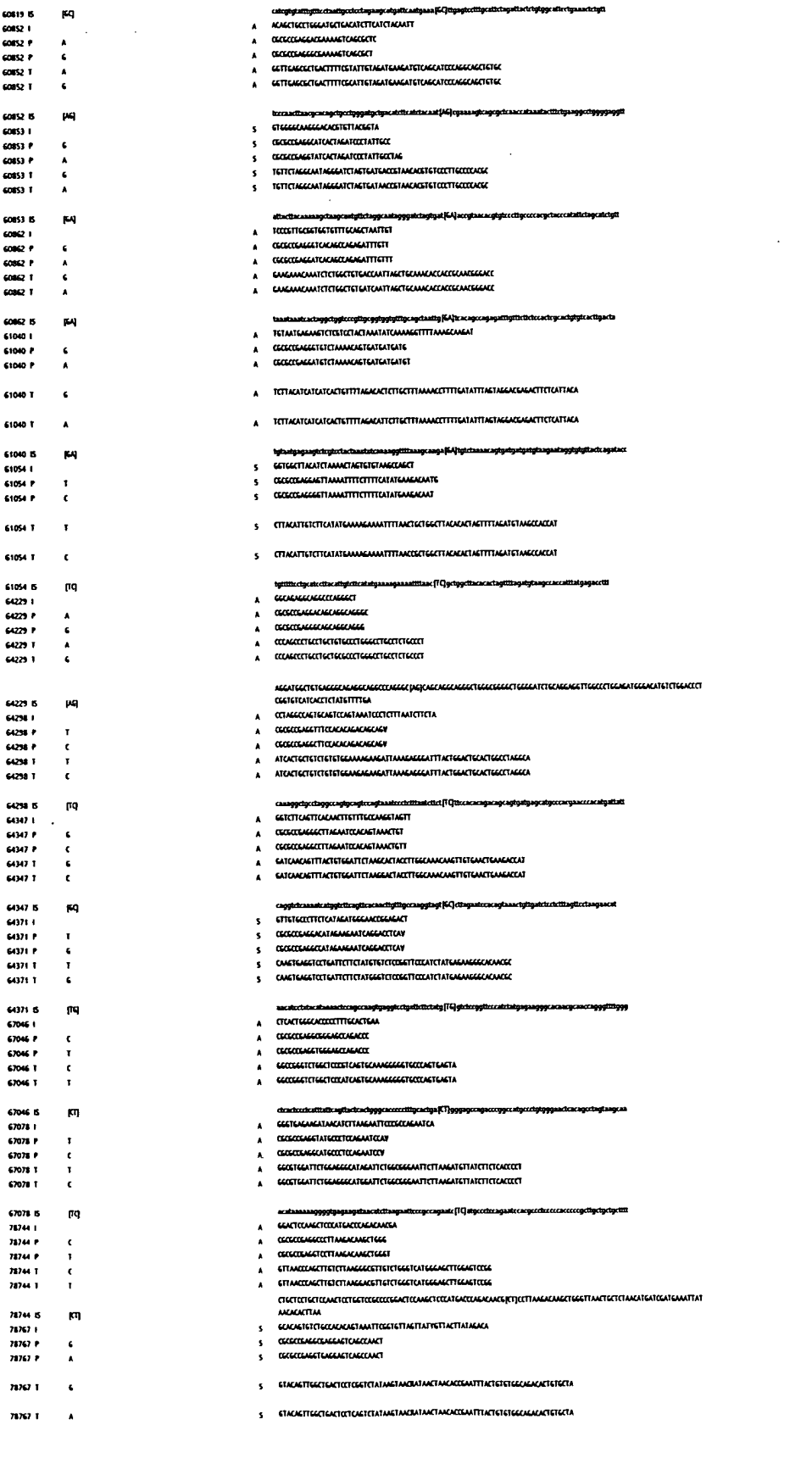
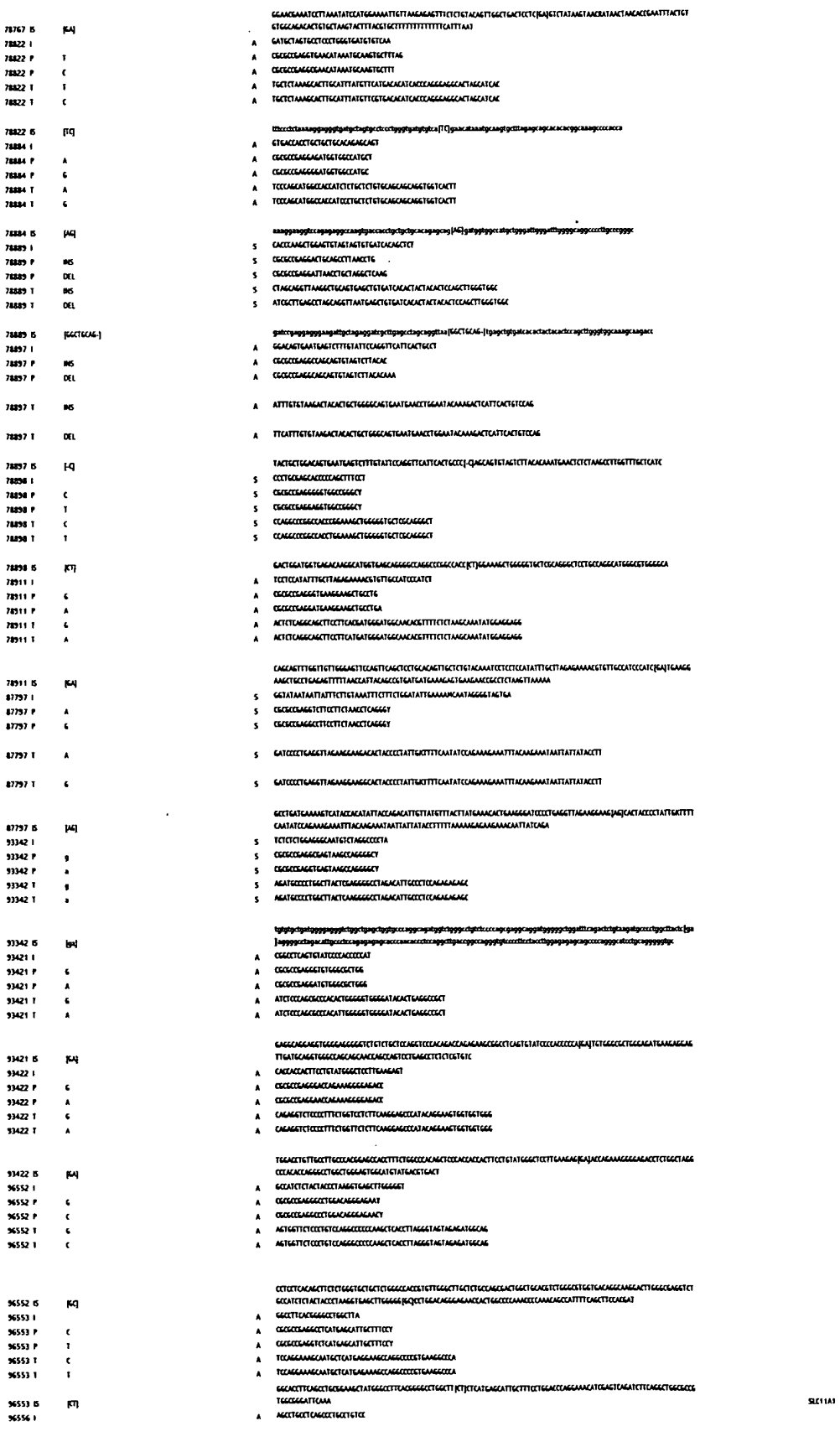


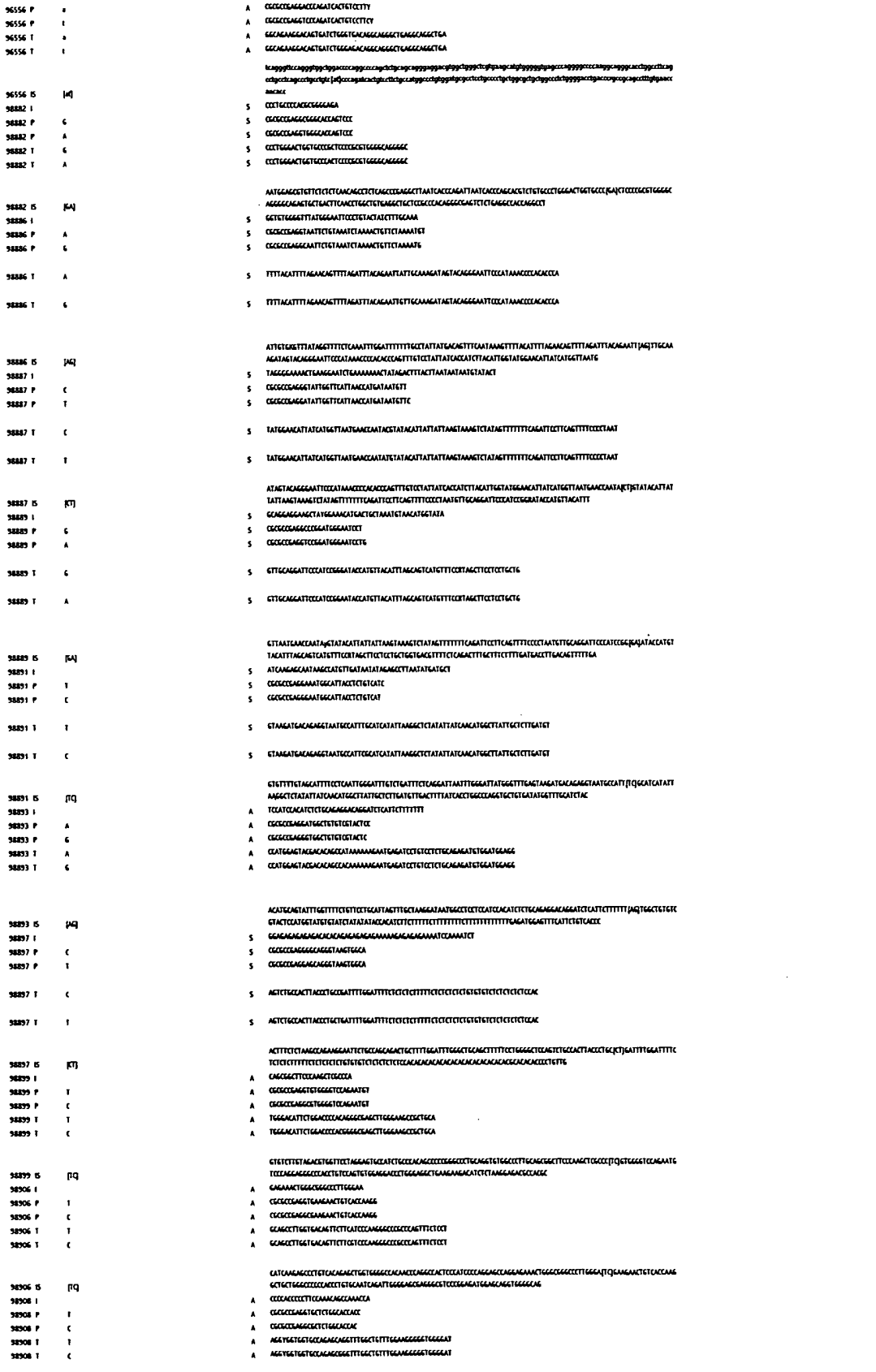
FIGURE 129C











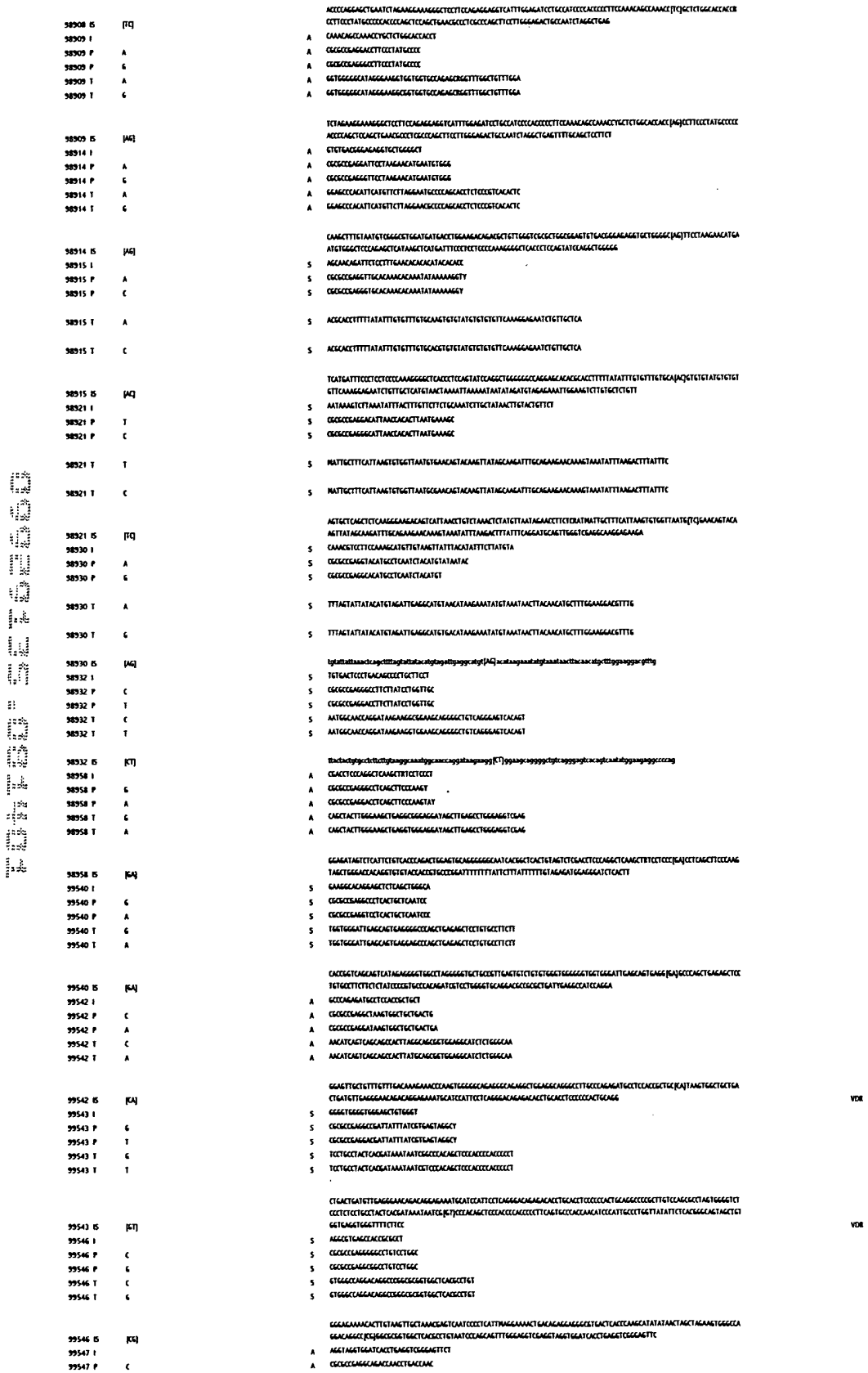
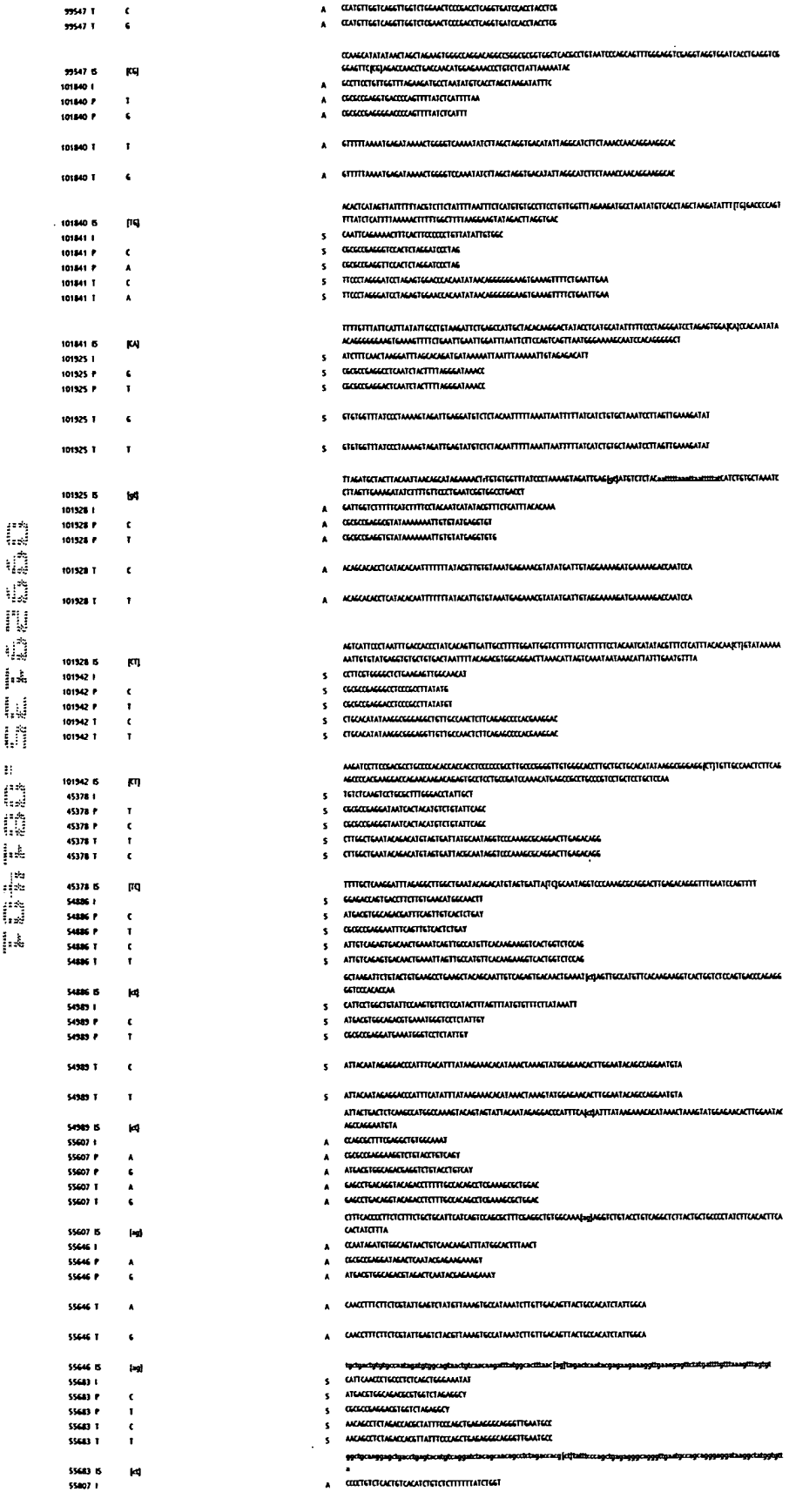
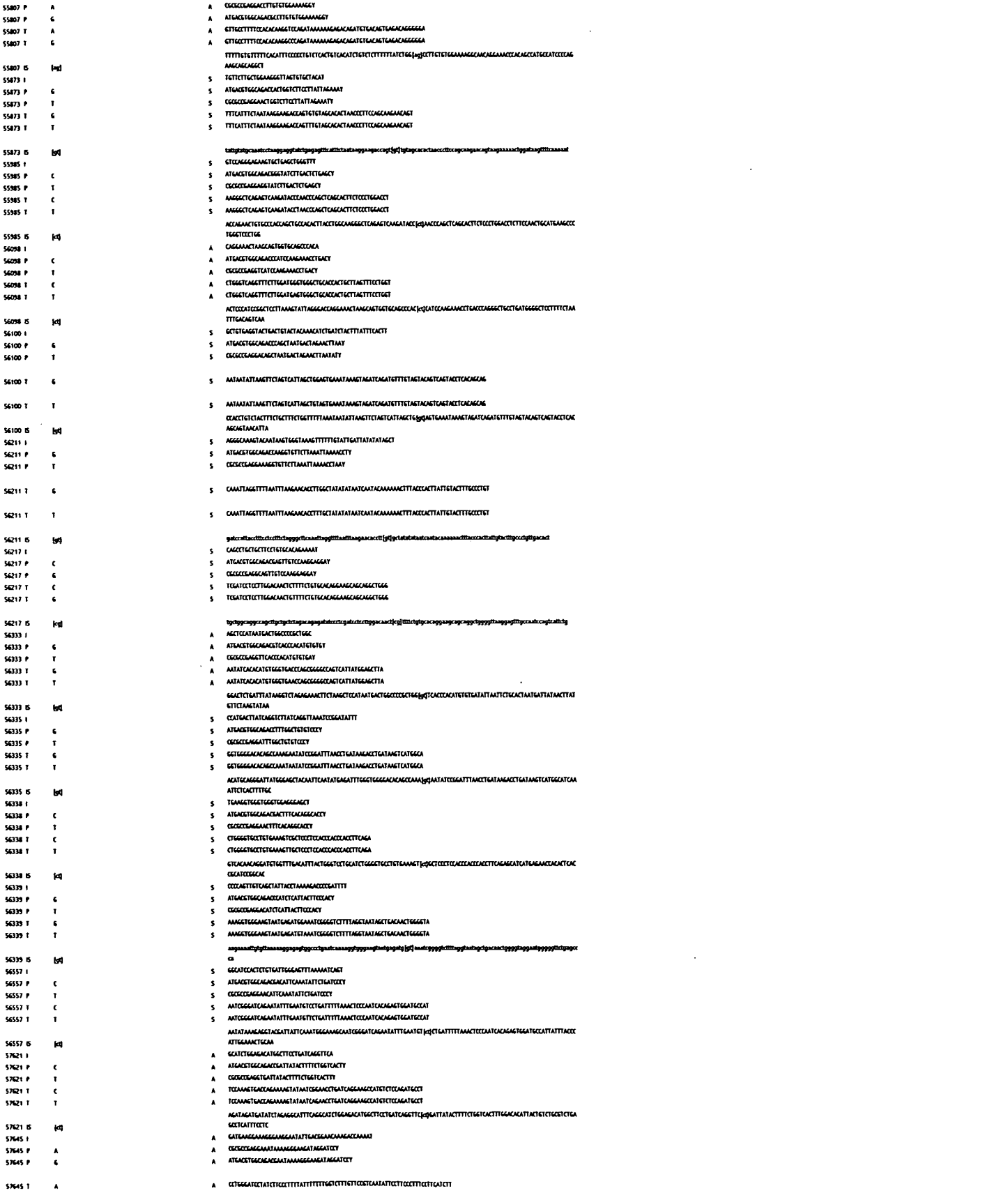
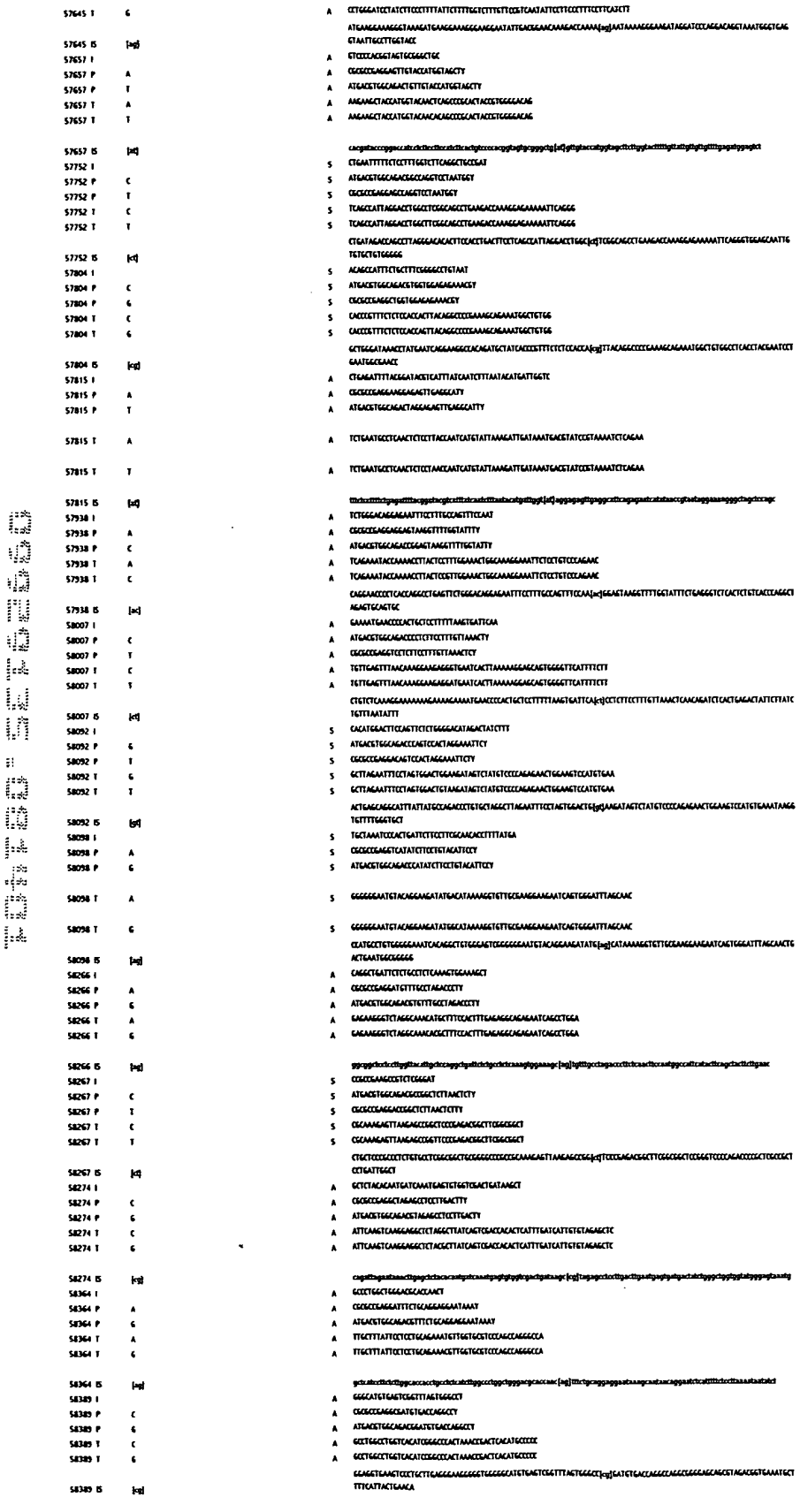
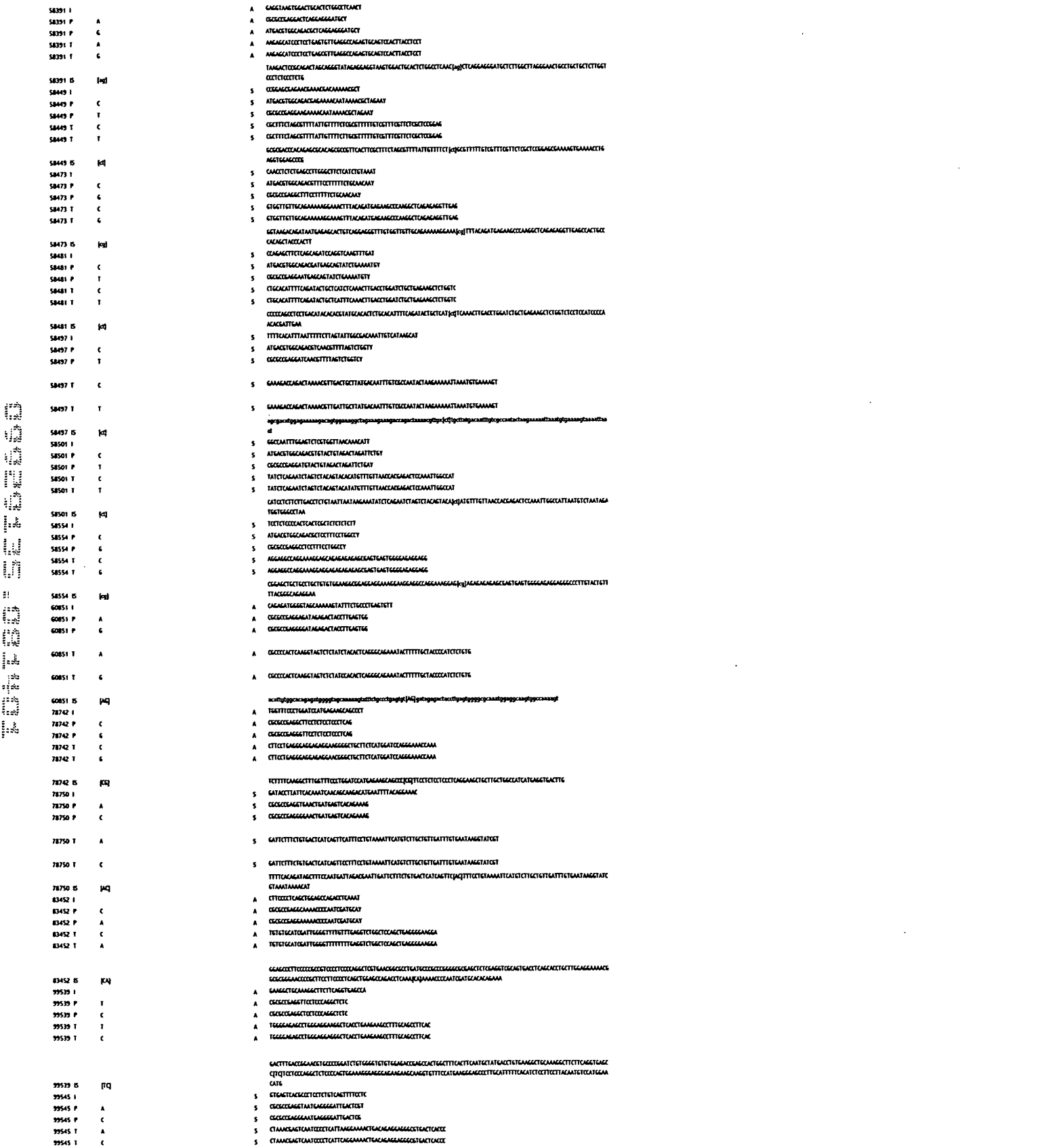


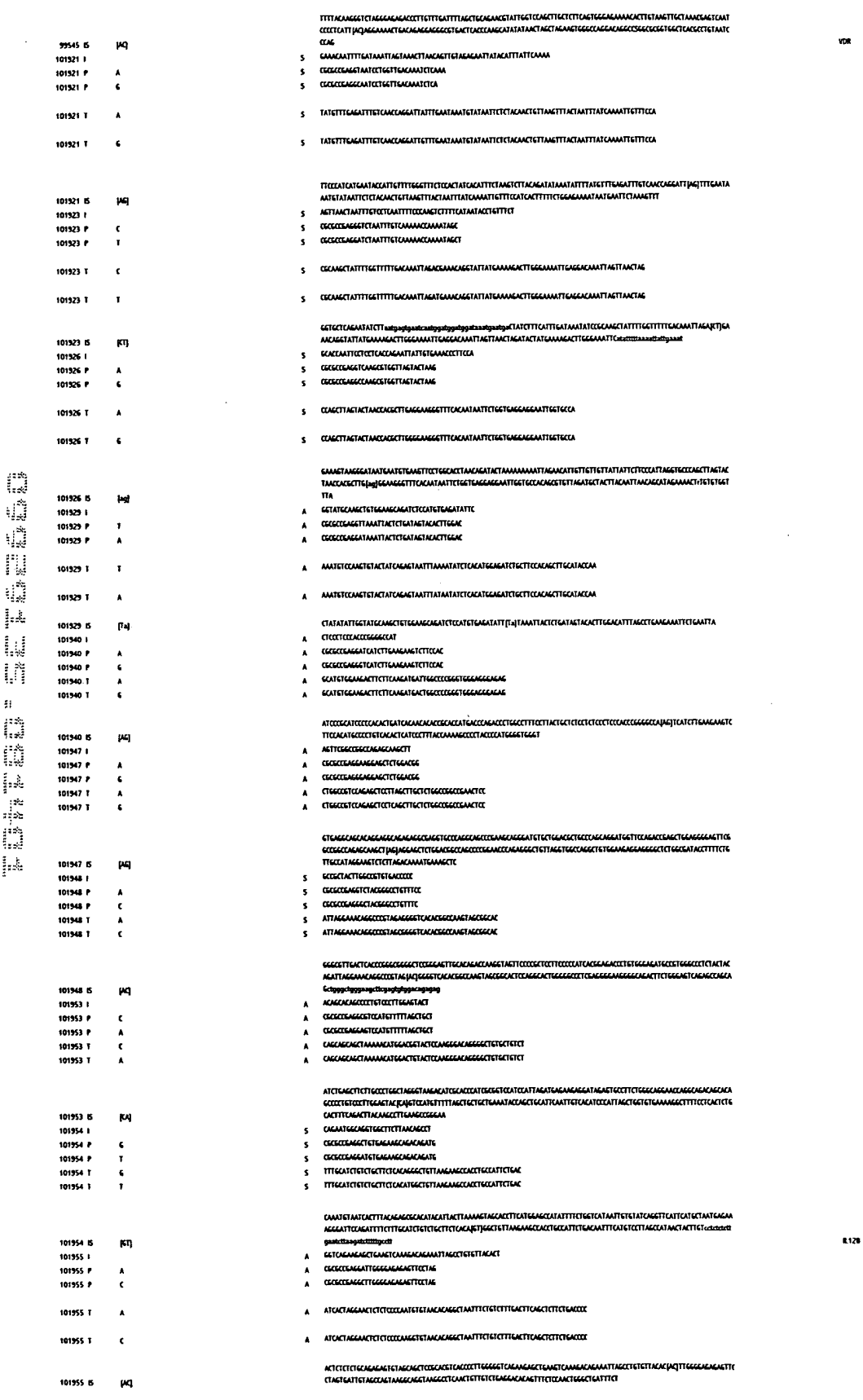
FIGURE 129C











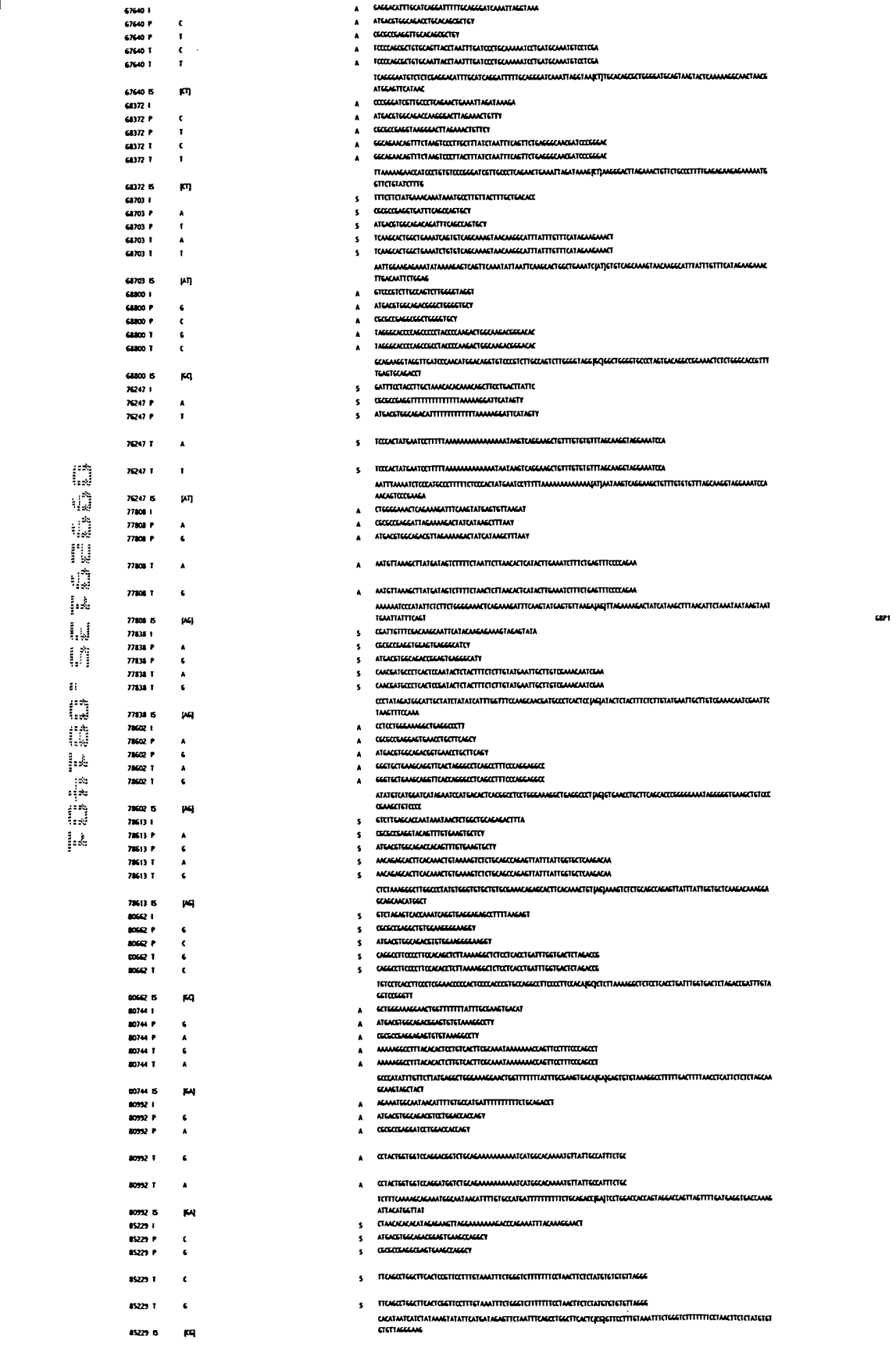
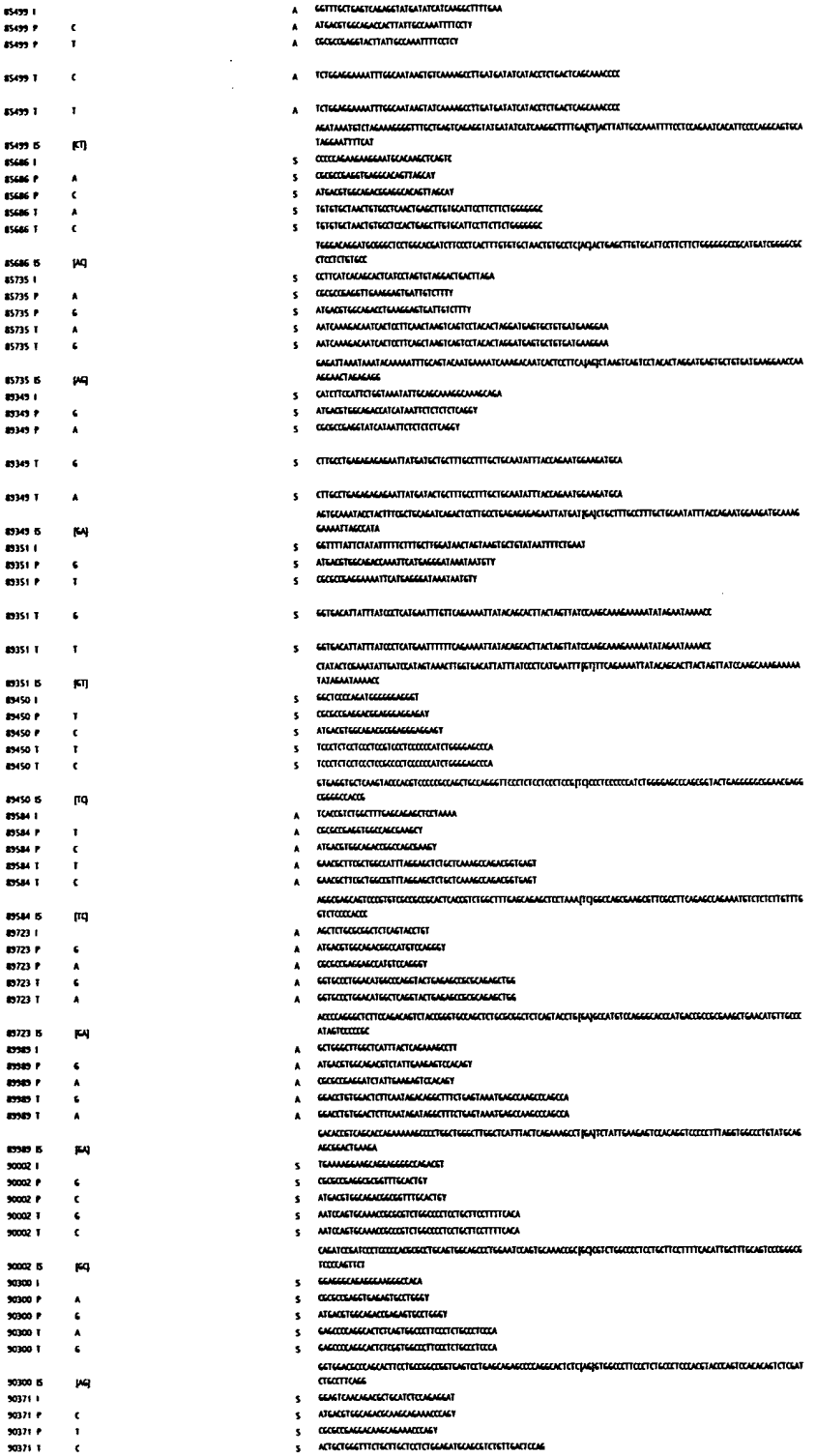

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80662 T C S CAGGCCTTCCCCTTCCACACCTCTTAAAAGGCTCTCCTCACCTGATTTGGTGACTCTAGACCG
80662 IS (GC) TGTCCTCACCTTCCCTCCGAACCCCCACTCCCCACCCCTGCCAGGCCTTCCCCTTCCACAG(GC)CTCTTAAAAGGCTCTCCTCACCTGATTTGGTGACTCTAGACCGATTTGTA GGTCCCGGTT
80744 I A GCTGGCAAAGCAACTGGTTTTTTTATTTGCGAAGTGACAT
80744 P G A ATGACGTGGCAGACGAGTGTGTAAAGGCCTY
80744 P A A CGCGCCGAGGAGAGTGTGTAAAGGCCTY
80744 T G A AAAAAGGCCTTTACACACTCCTGTCACTTCGCAAATAAAAAACCAGTTCCTTTCCCAGCCT
80744 T A A AAAAAGGCCTTTACACACTCCTGTCACTTCGCAAATAAAAAACCAGTTCCTTTCCCAGCCT
80744 IS (GA) GCCCATATTTGTTCTTATGAGGCTGGGAAAGGAACTGGTTTTTTTATTTGCGAAGTGACA(GA)CAGTGTGTAAAGGCCTTTTTGACTTTTAACCTCATTCTCTCTAGCAA GCAAGTAGCTACT
80952 I A ACAAATGGCAATAACATTTTGTGCCATGATTTTTTTTTTCTGCAGACCT
80952 P G A ATGACGTGGCAGACGTCCTGGACCACCAGY
80952 P A A CGCGCCGAGGATCCTGGACCACCAGY
80952 T G A CCTACTGGTGGTCCAGGACGGTCTGCAGAAAAAAAAAATCATGGCACAAATGTTATTGCCATTTCTGC
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80952 IS (GA) TCTTTCAAAAGCACAAATGGCAATAACATTTTGTGCCATGATTTTTTTTTTCTGCAGACC(GA)CTCTGGACACCACTAGGACCAGTTAGTTTTGATGAGGTGACCAAAG ATTACATGGTTAT
85229 I S CTAACACACACATAGAGAAGTTAGGAAAAAAAAGACCCAGAAATTTACAAAGGAACT
85229 P C S ATGACGTGGCAGACGGAGTGAAGCCAGGCY
85229 P G S CGCGCCGAGGCAAGTGAAGCCAGGCY
85229 T C S TTCAGCCTGGCTTCACTCCGTTCCTTTGTAAATTTCTGGGTCTTTTTTTCCTAACTTCTCTATGTGTGTGTTAGGG
85229 T G S TTCAGCCTGGCTTCACTCGGTTCCTTTGTAAATTTCTGGGTCTTTTTTTCCTAACTTCTCTATGTGTGTGTTAGGG
85229 IS (CT) CACATAATCATCTATAAAGTATATTCATGATAGAGTTCTAATTTCAGCCTGGCTTCACTC(CG)CTTTGTAAATTTCTGGGTCTTTTTTTCCTAACTTCTCTATGTGT GTGTTAGGGAAG

FIGURE 129C



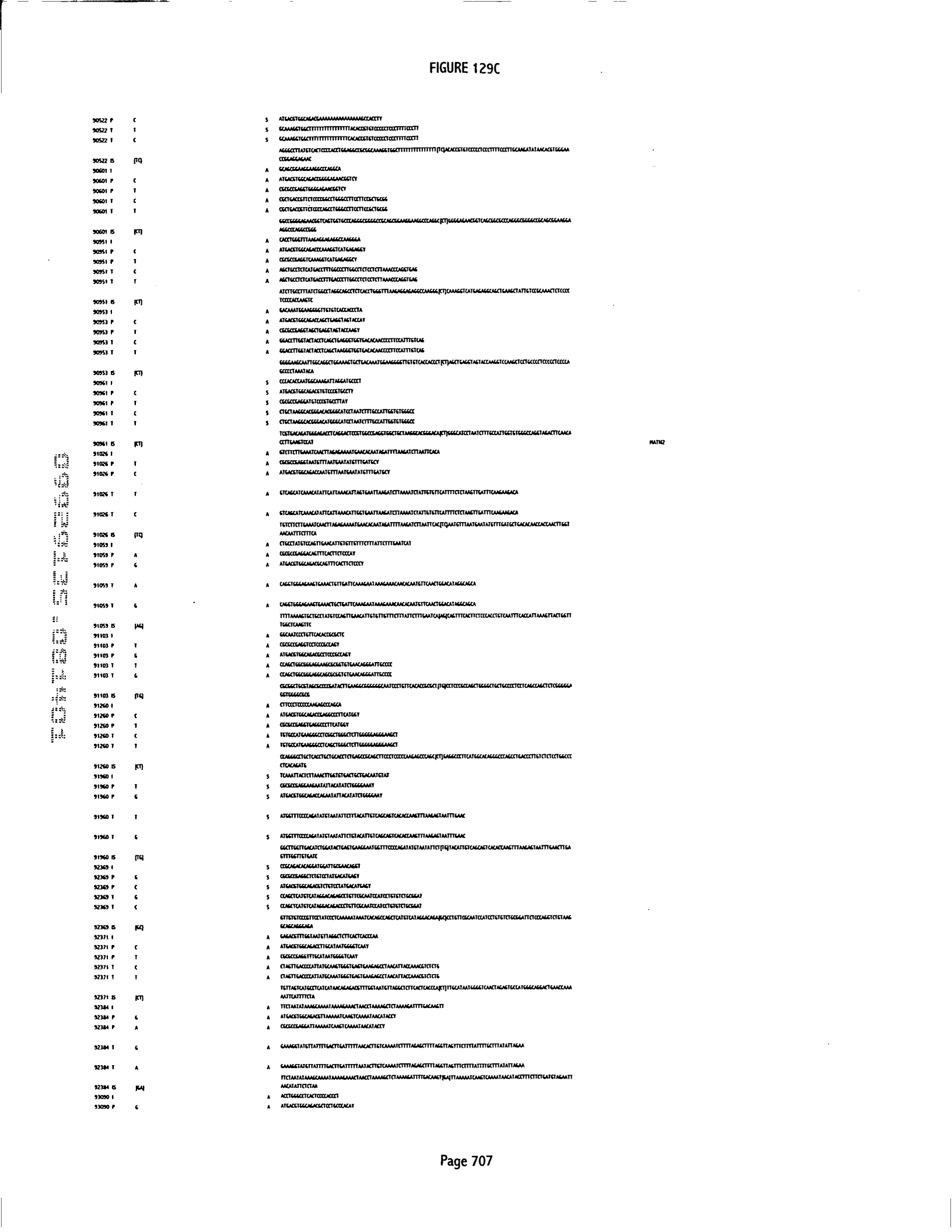
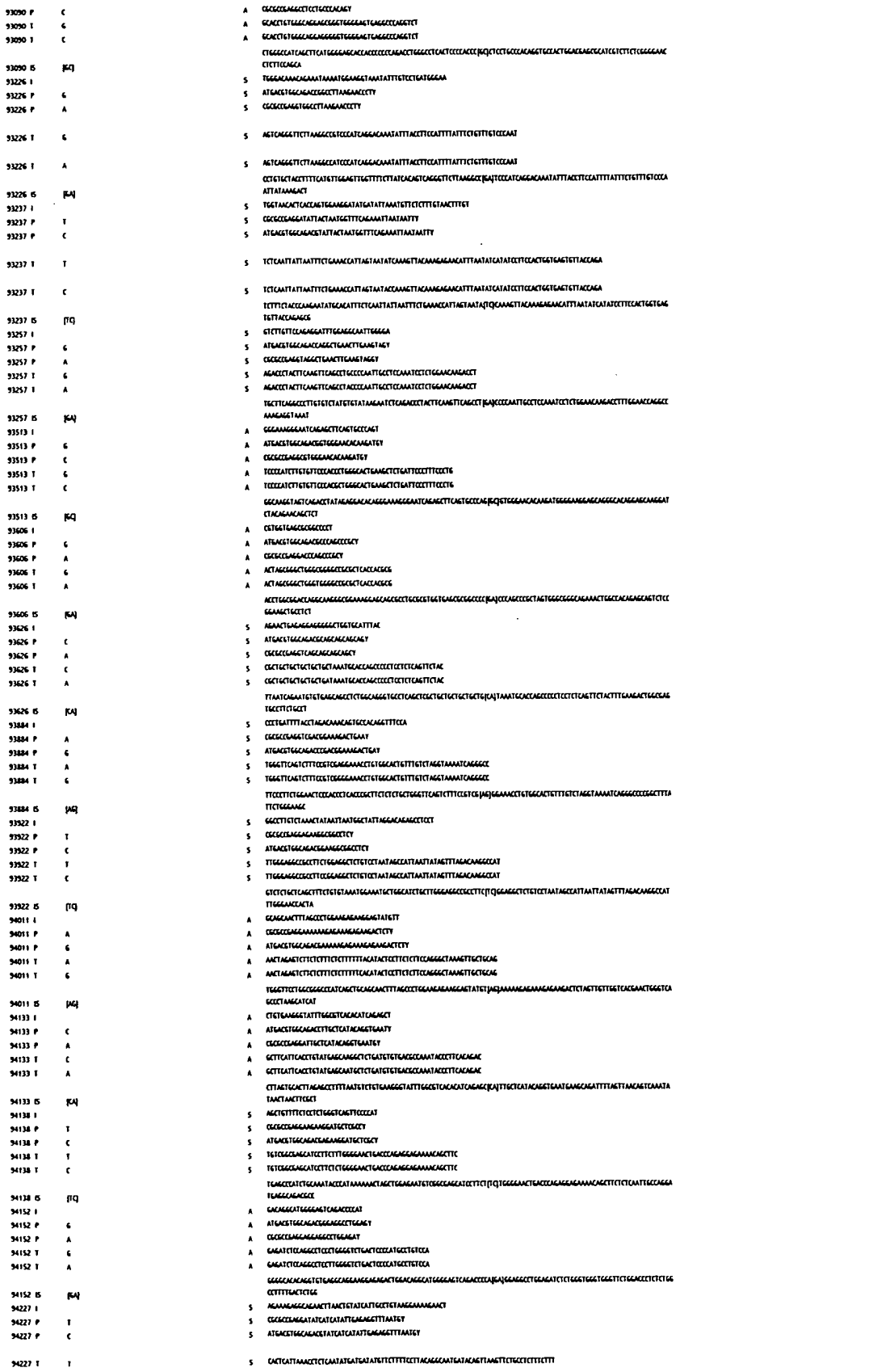


FIGURE 129C



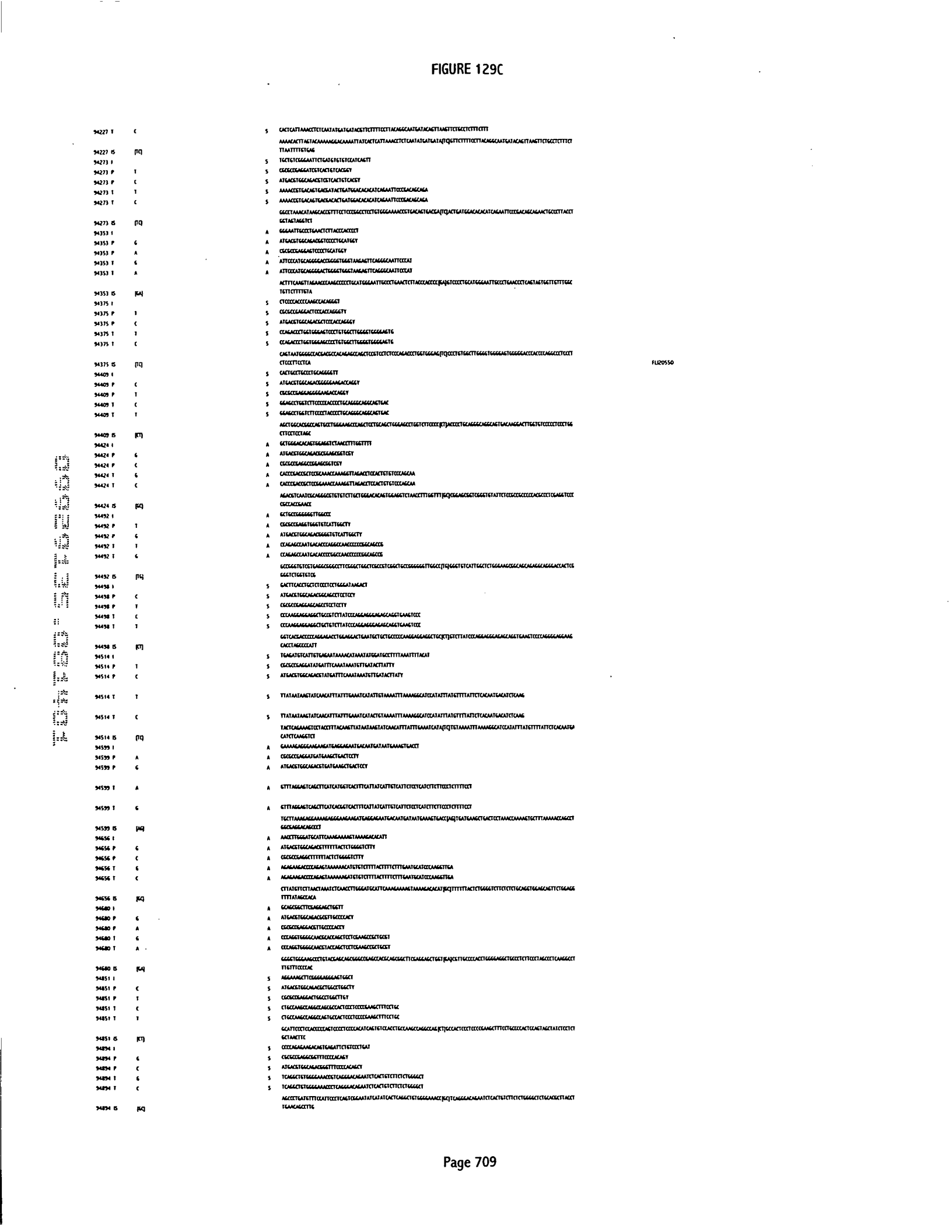
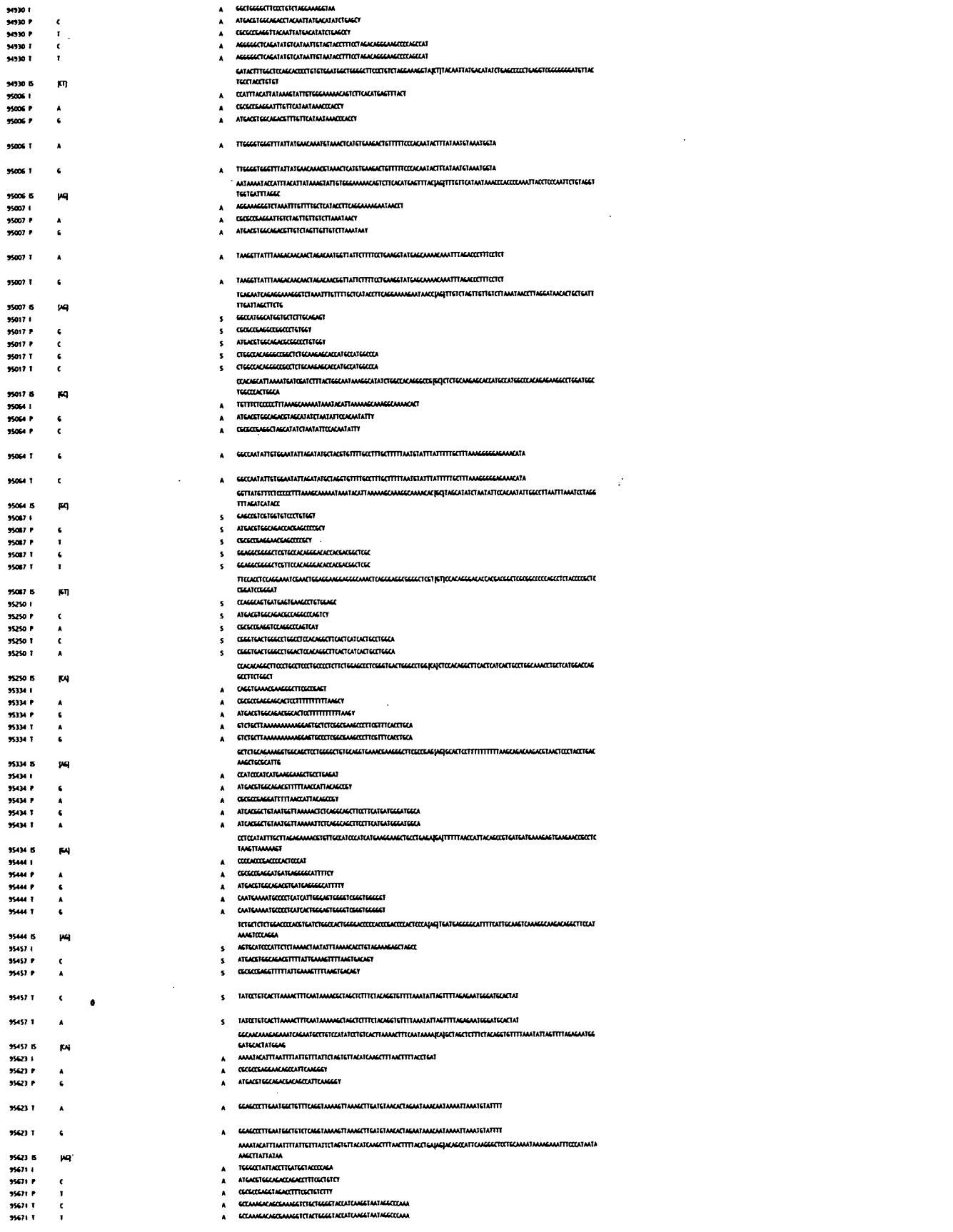
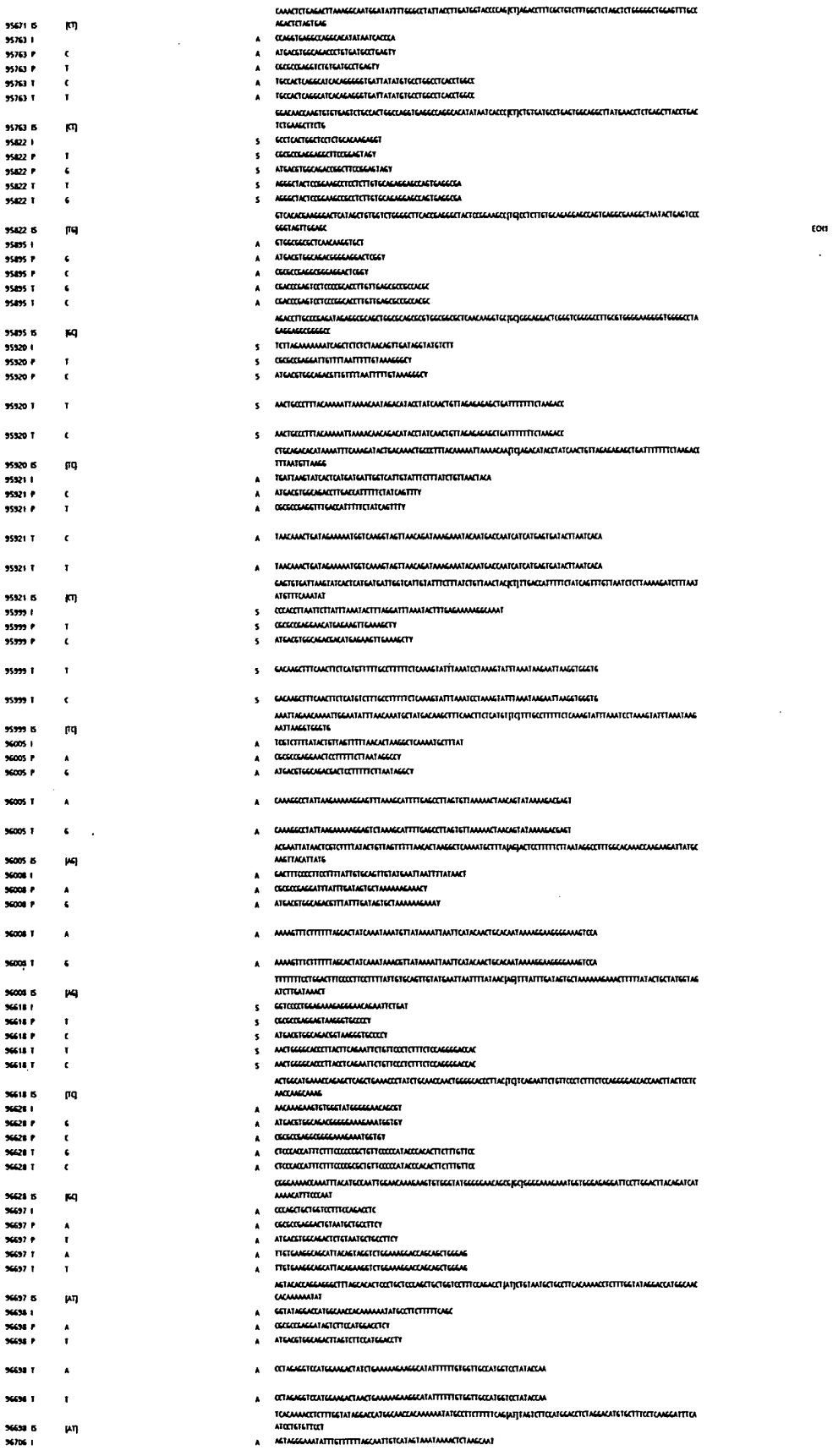


FIGURE 129C





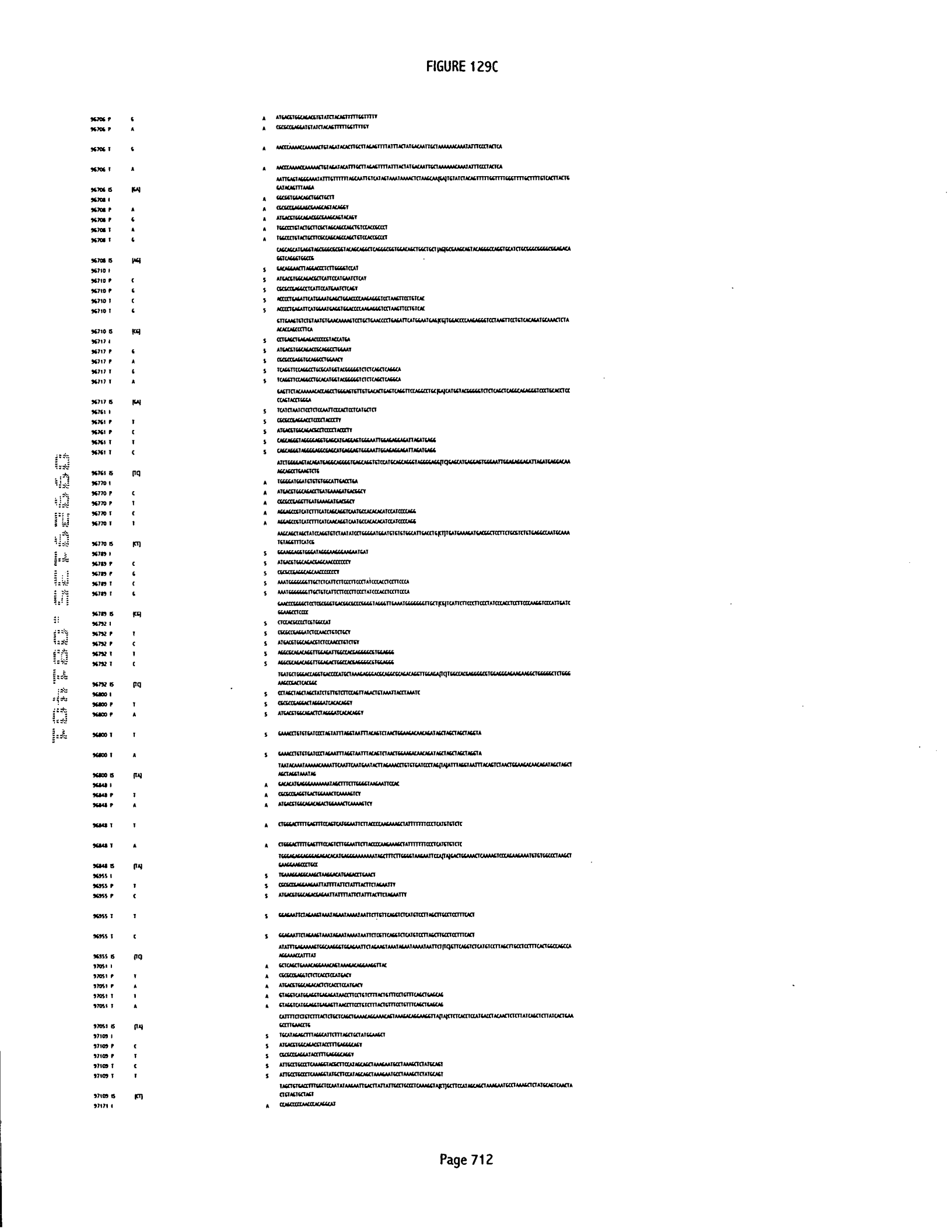
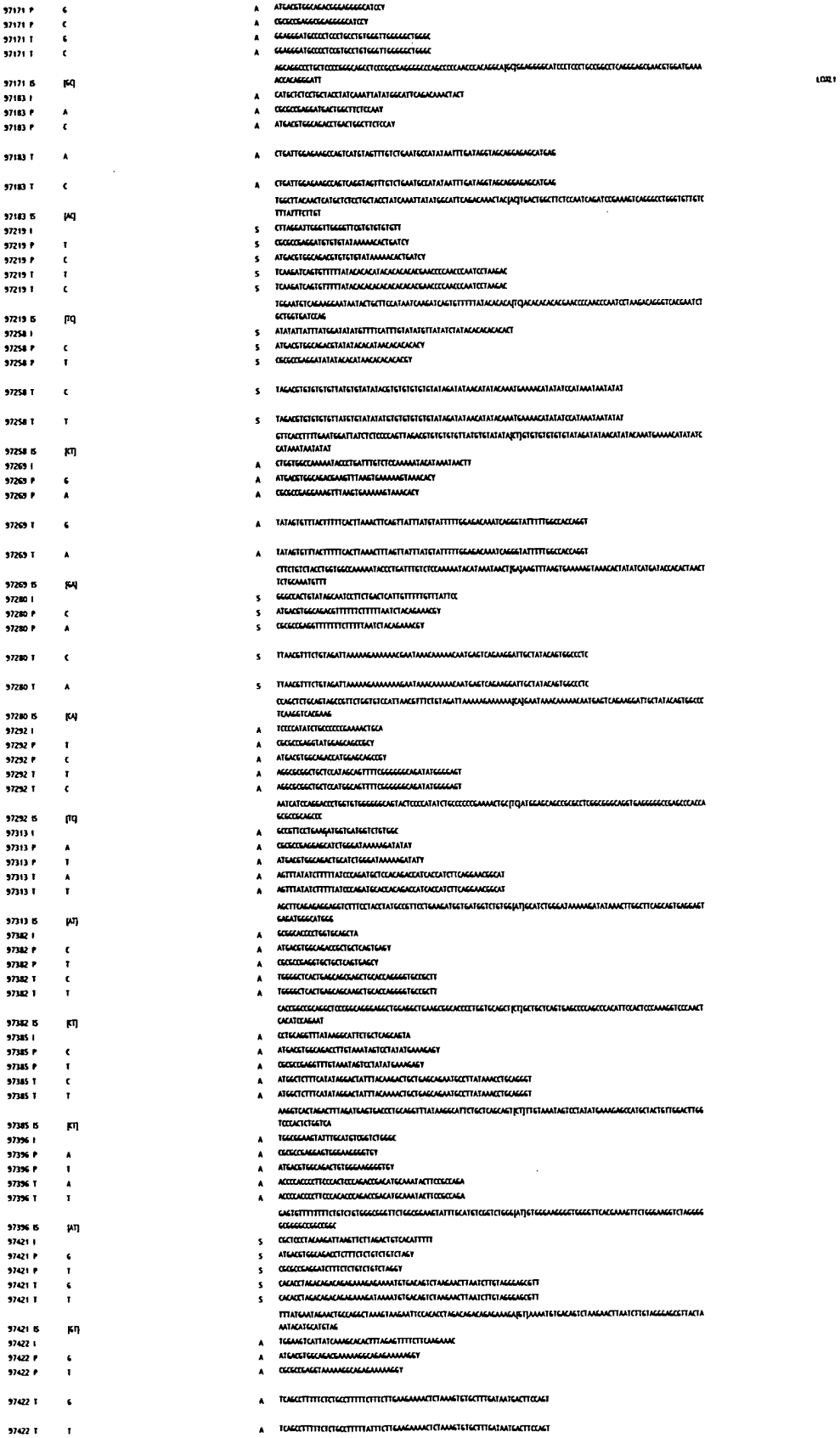
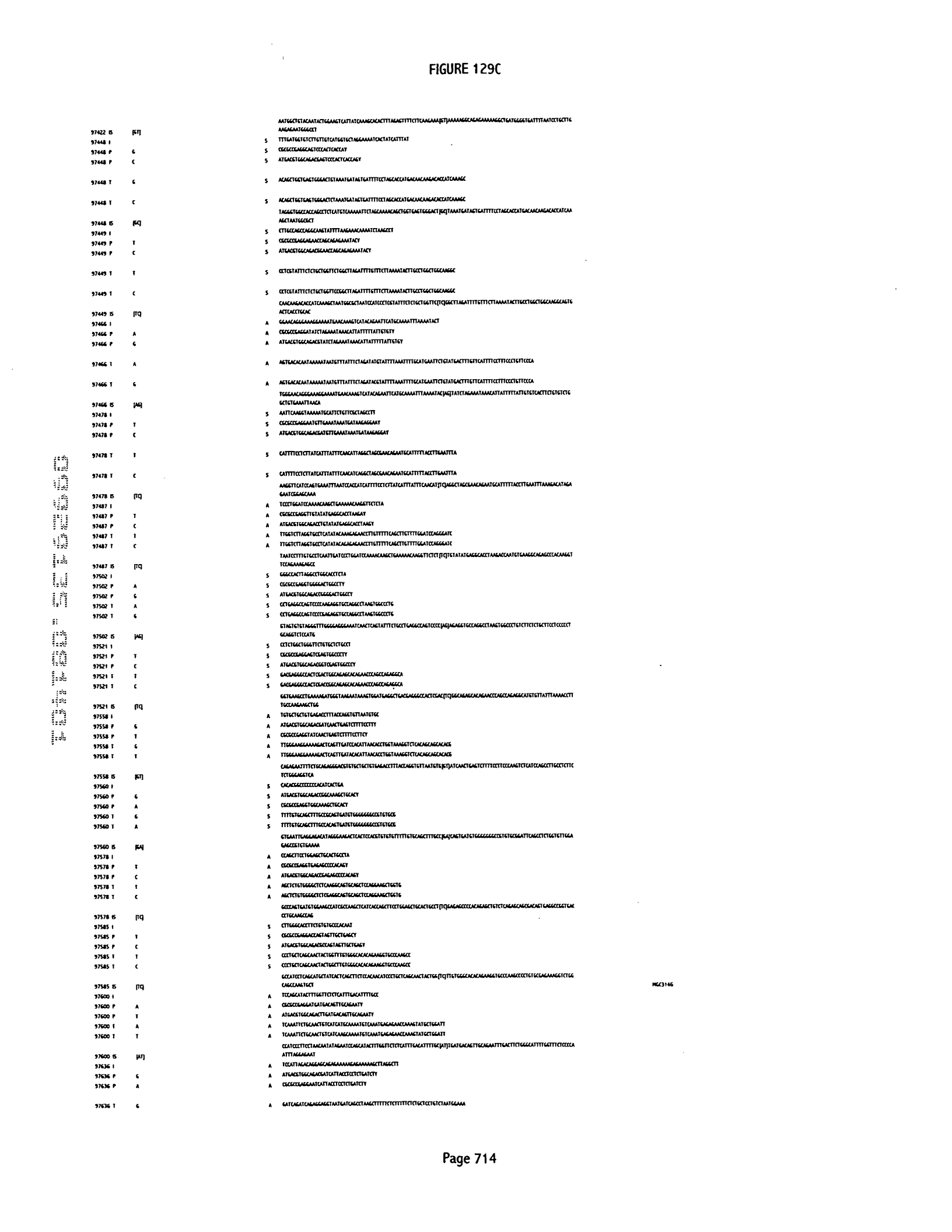


FIGURE 129C





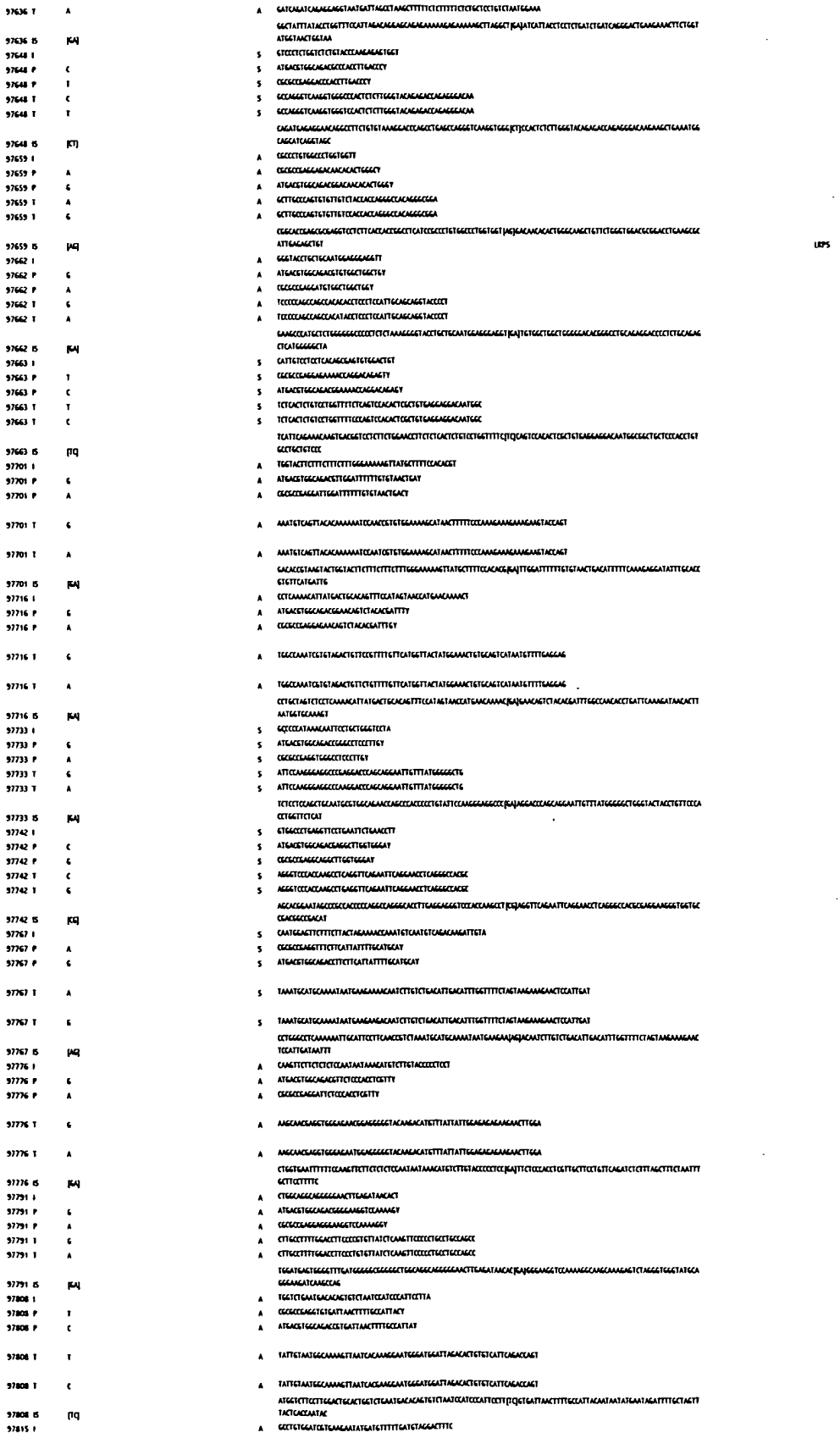
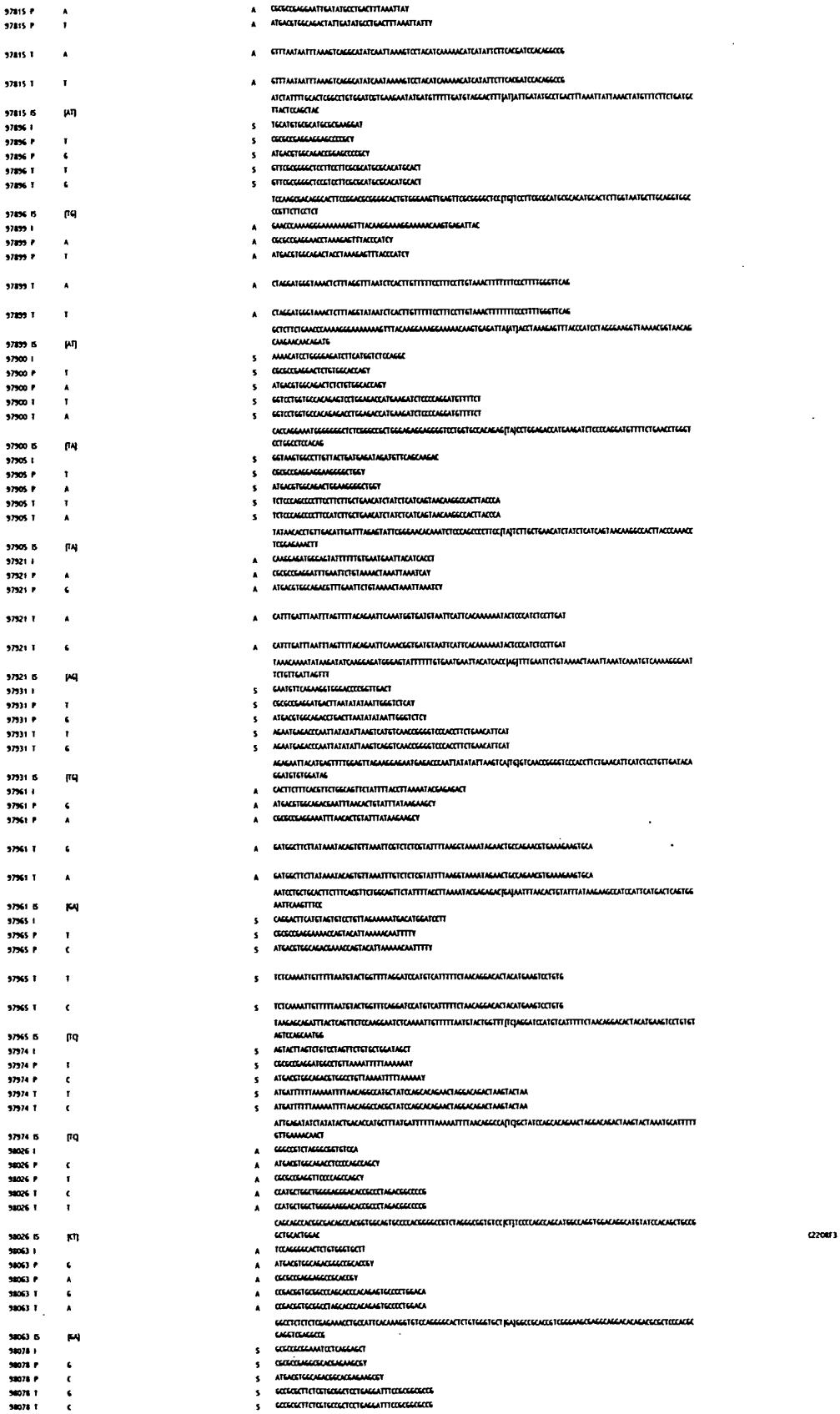


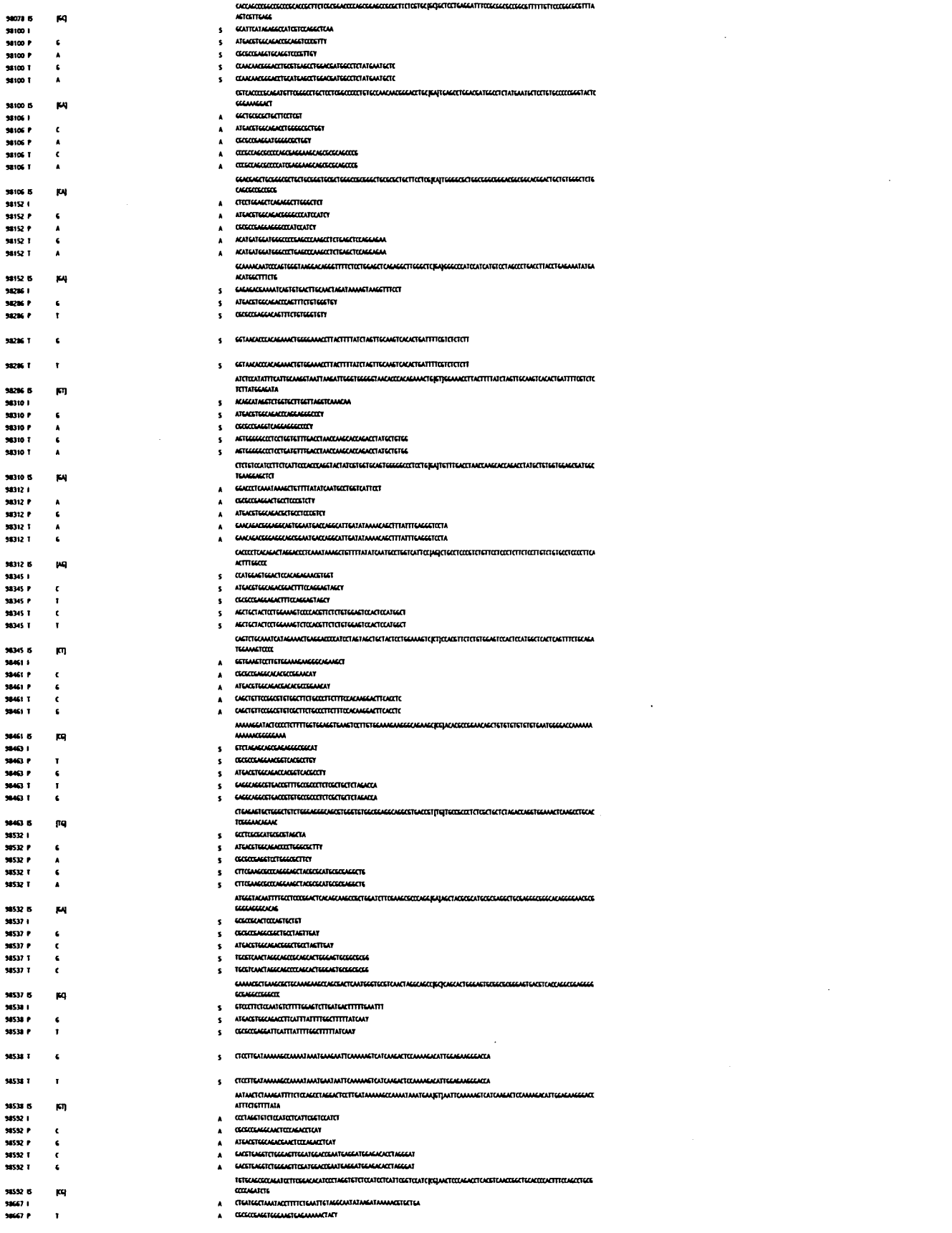
FIGURE 129C







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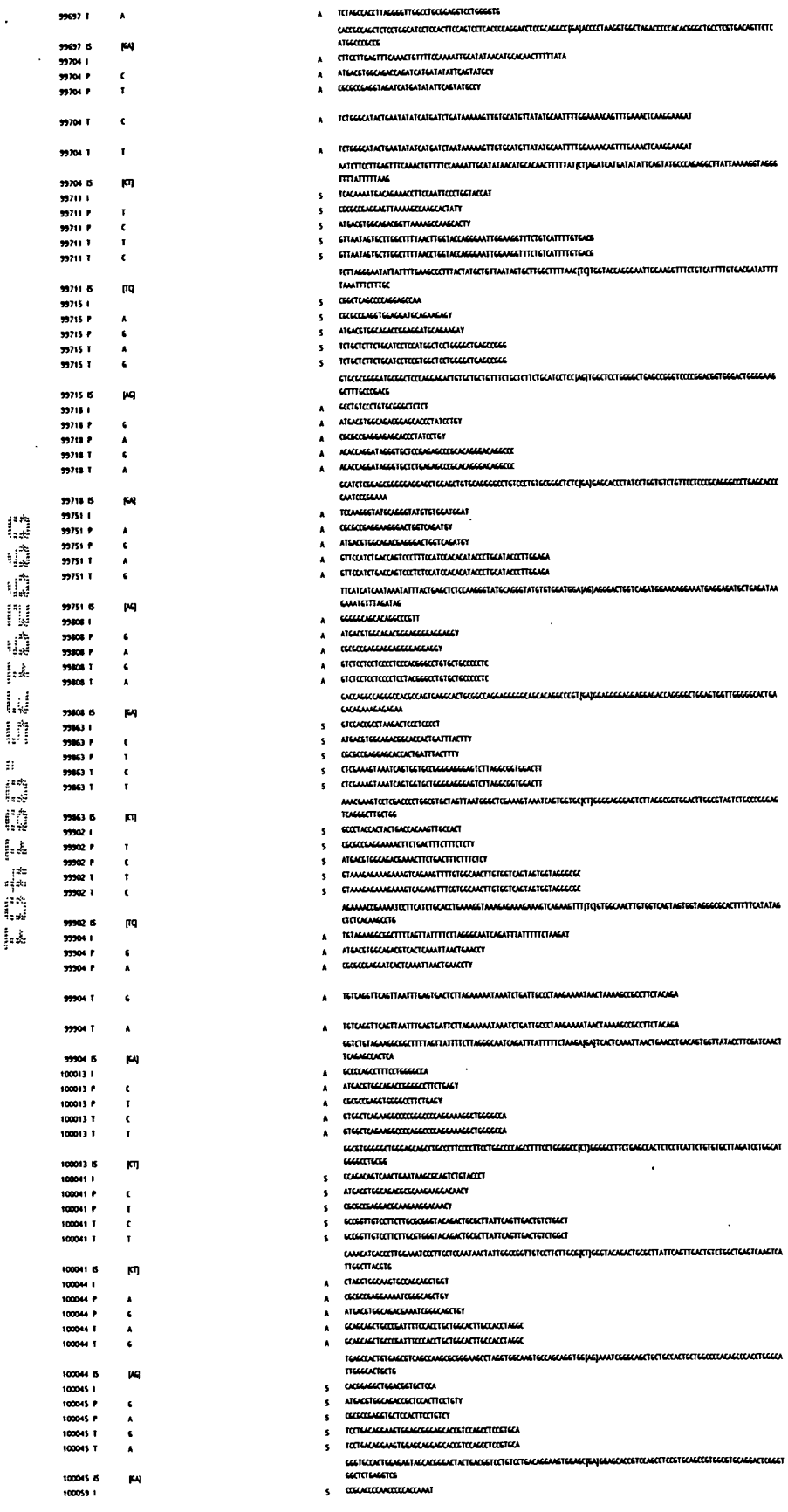
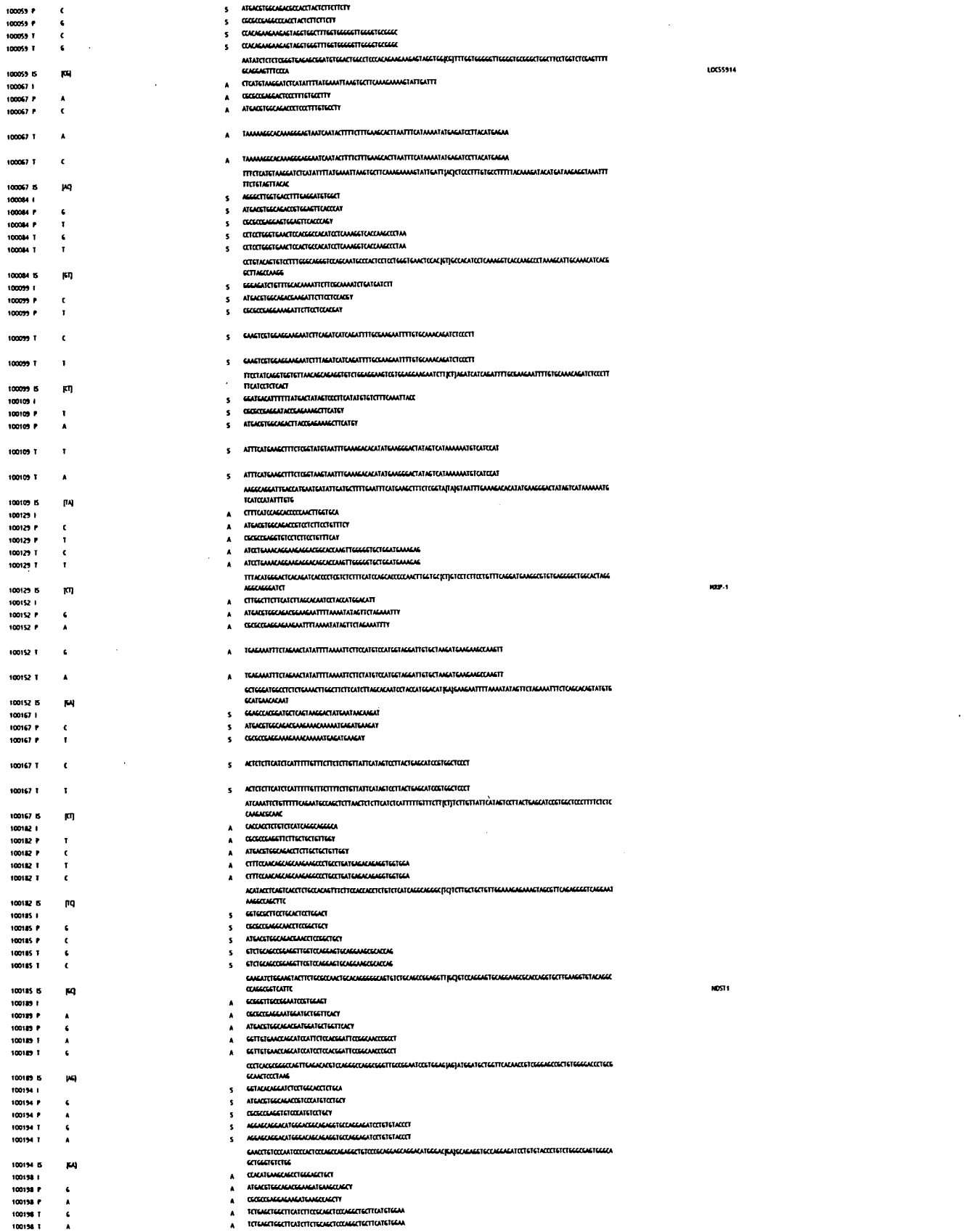
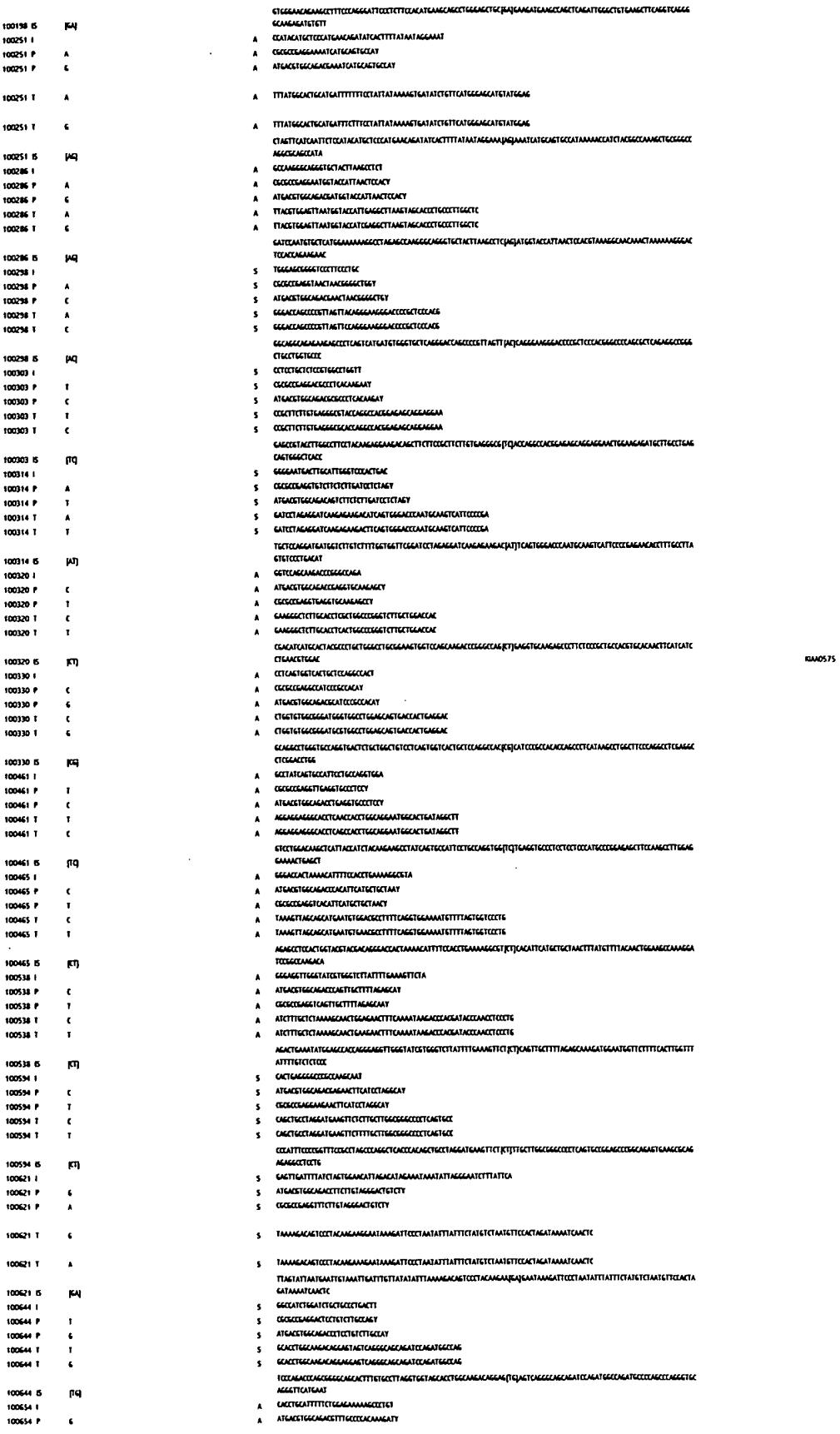
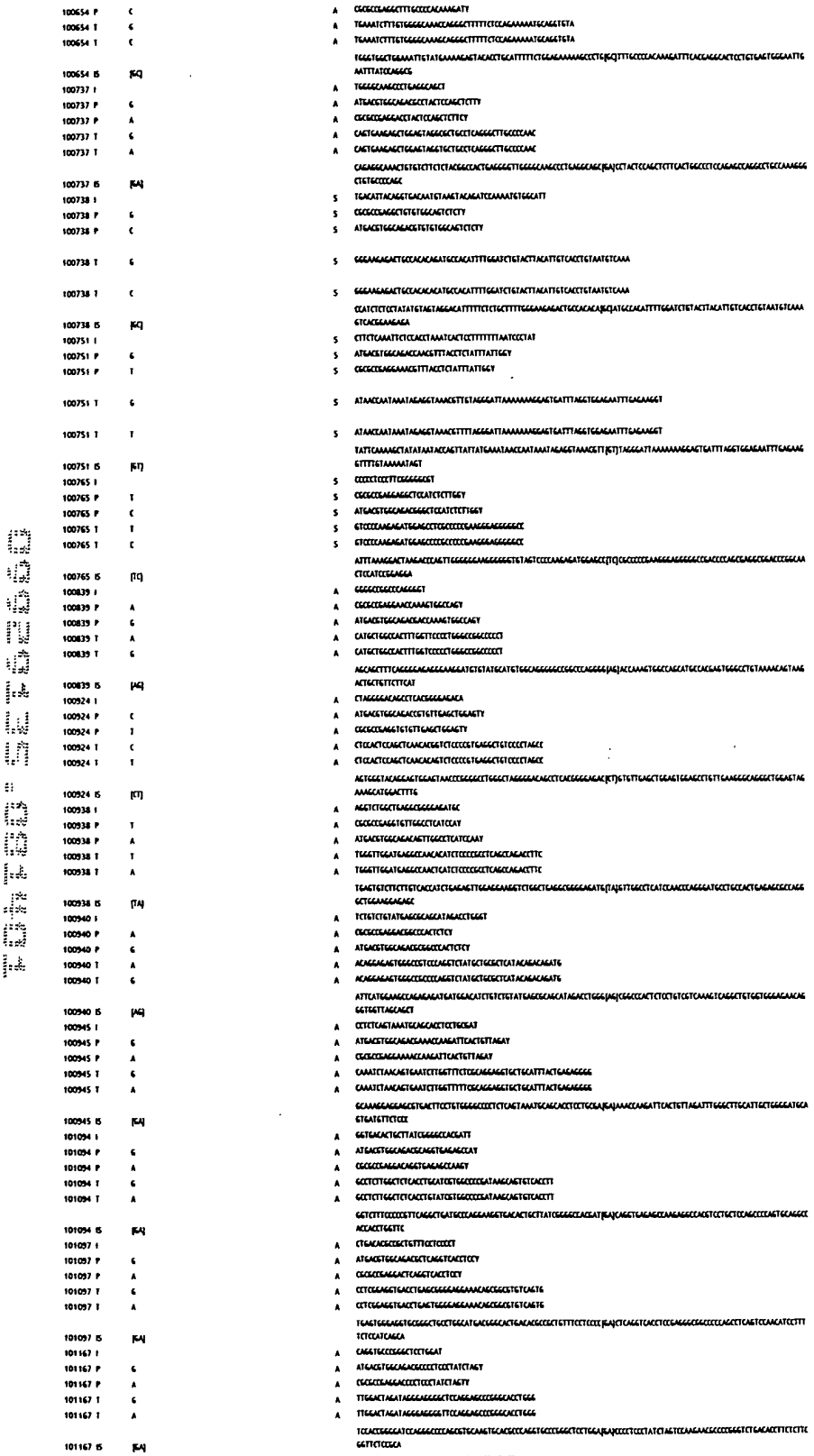


FIGURE 129C







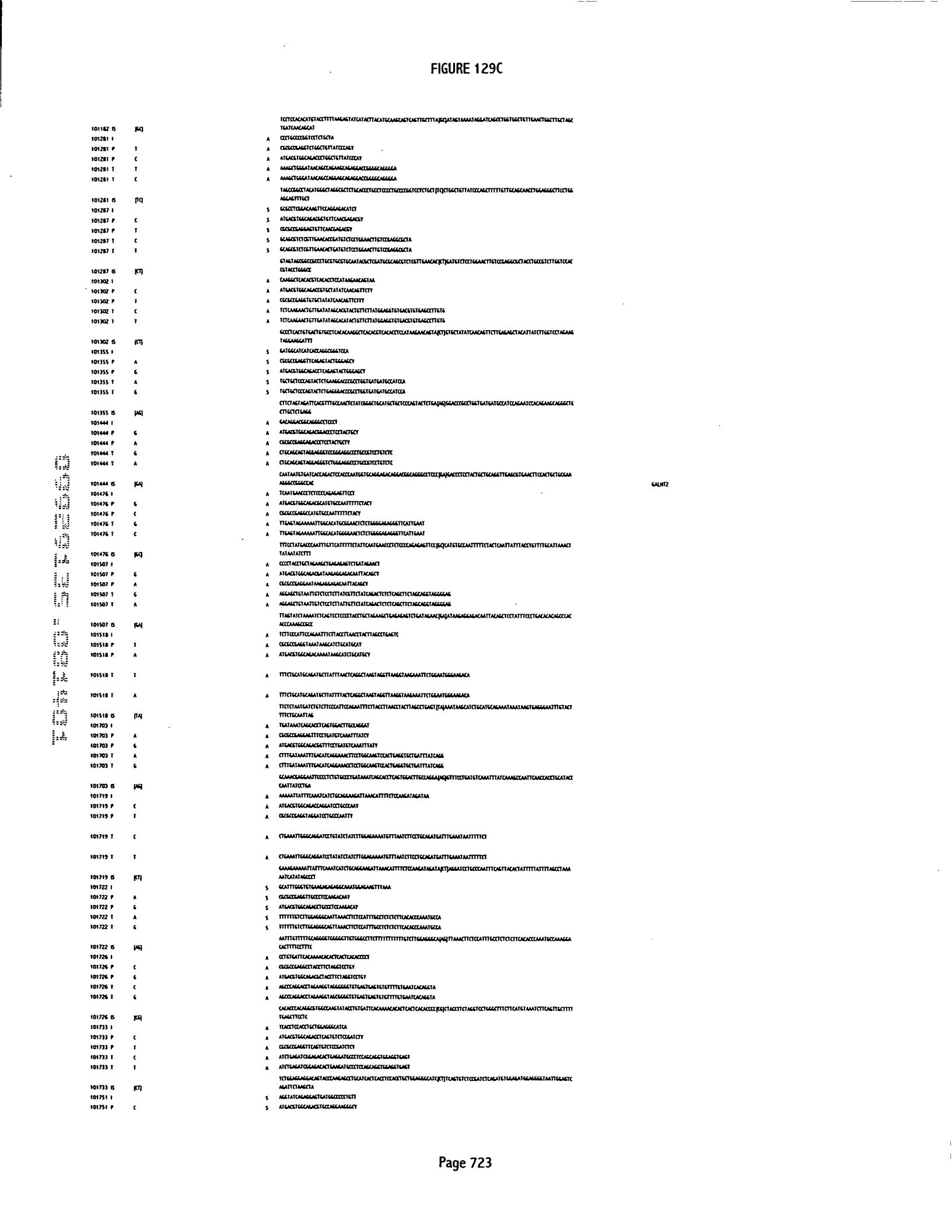


FIGURE 129C

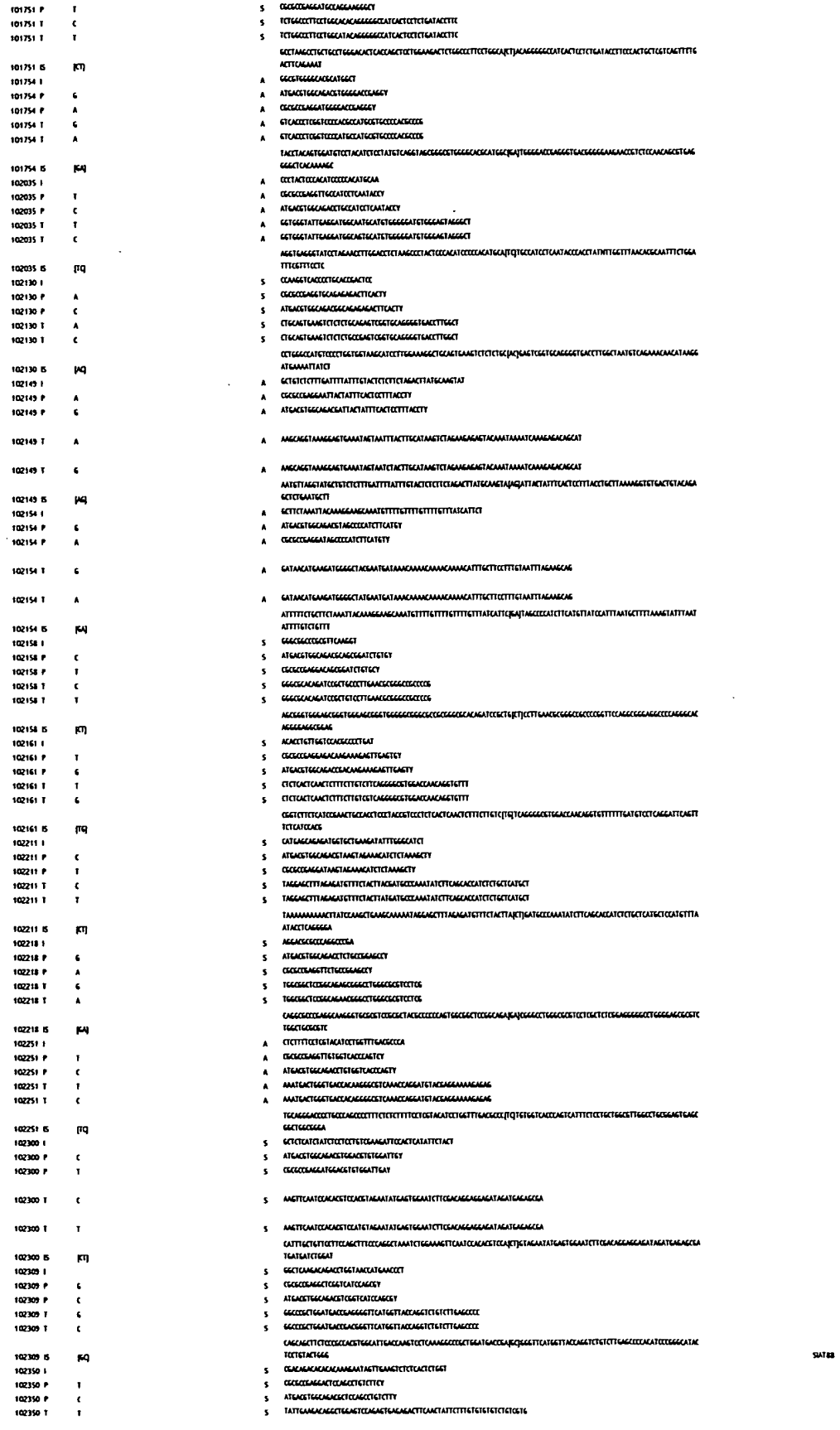
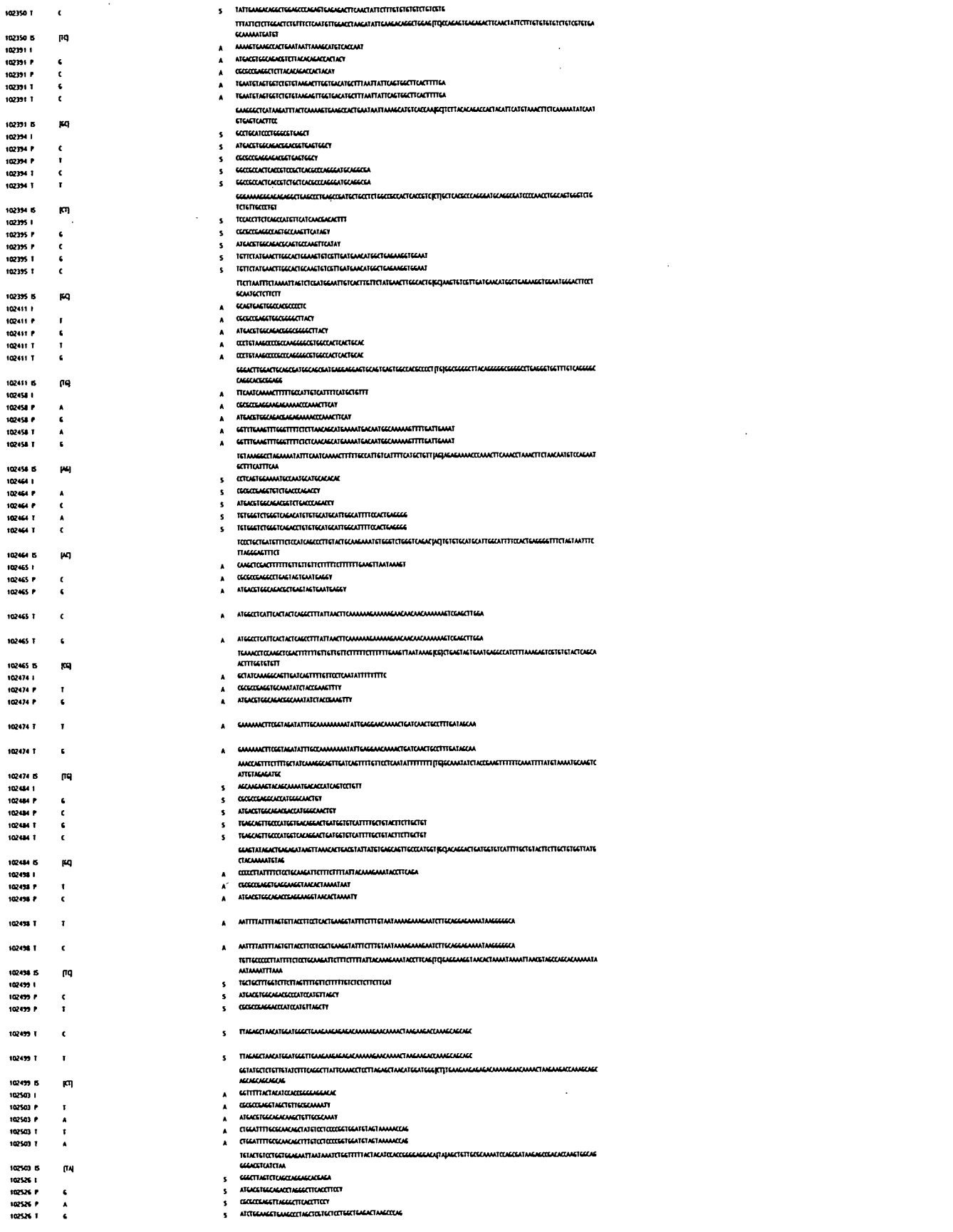
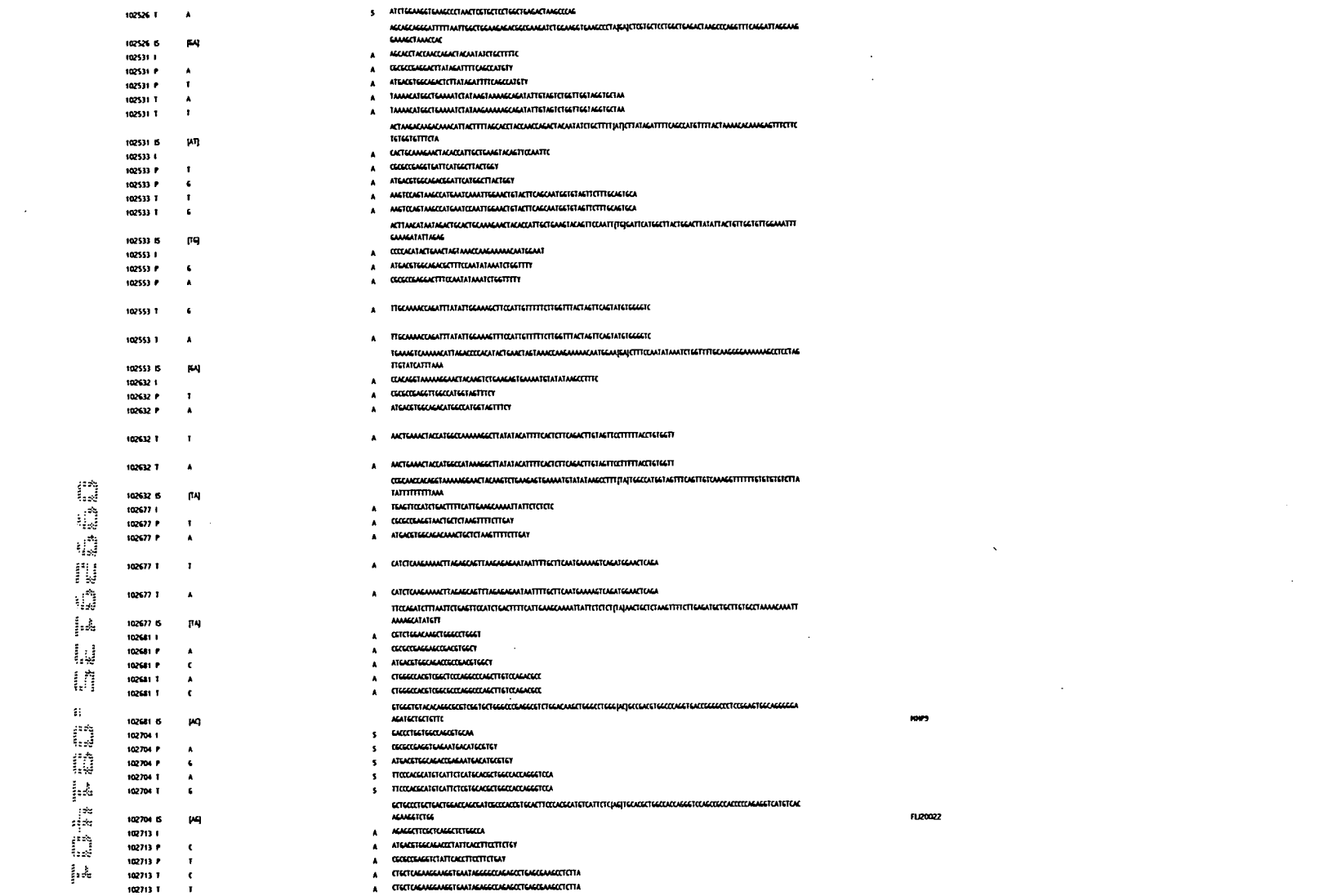


FIGURE 129C



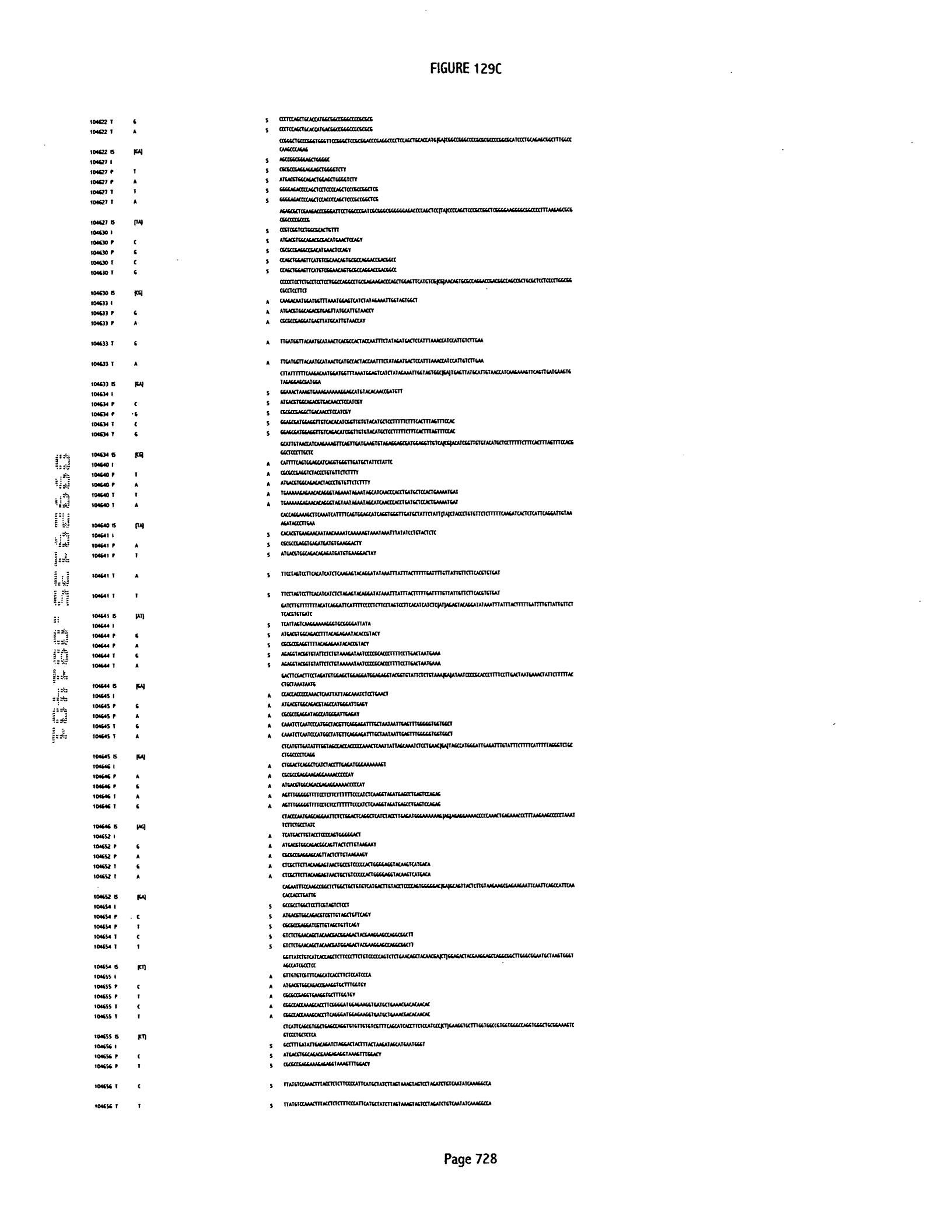






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102775 P	G	S	CGCGCCGAGGCAGAAAGATGAGGTTTGCAT
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102775 T	G	S	TGTATGCAAACCTCATCTTTCTGCTTCATTAATGATGATCTTCAGATTAAACCTTTGGTGCTAGGAGCTGA
102775 IS	[CG]		GTCCCTCAGATTCCAACATTTCTCACTGAAAGGGGGCATGTATGCAAACCTCATCTTTCT[CG]CTTCATTAATGATGATCTTCAGATTAAACCCTTTGGTGCTAGGAGCTG ACAATTTCCAAA
102777 I		S	ACGAACAACAGAAAAGAAGAGAAAACAAAAGGAAAAAAGACAAAC
102777 P	A	S	CGCGCCGAGGTGTGCATGCTGTCCAT
102777 P	C	S	ATGACGTGGCAGACGGTGCATCGTGTCCAT
102777 T	A	S	AGCCTGGACACGATGCACATTTGTCTTTTTTCCTTTTTCGTTTTCTCTTCTTTTCTGTGTGTCGTTT
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102810 T	G	A	GGCAGGTACAGGGGTCAGCTGCAGGAGTGGCACCATATCTCAAAGGAACCTGG
102810 IS	[CG]		CAGCTAGGTCTAGACTCTGCTCACCCTCCAGGTCCTTTGAGATATGGTGCCACTCTGCA[CG]CTGACCCCTGTACCTGCCACCCCGGGATCCCTTTCAGTCCTGCCCTGGC CTAGAACCACA
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102838 P	C	S	ATGACGTGGCAGACGGCAGTGGCCACAY
102838 P	T	S	CGCGCCGAGGAGCAGTGGCCACATY
102838 T	C	S	CAGGATGTGGCCACTGCCGTGGCTTCCCTCTGCCGCTACCACGG
102838 T	T	S	CAGGATGTGGCCACTGCTGTGGCTTCCCTCTGCCGCTACCACGG
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104607 P	C	S	ATGACGTGGCAGACGTGCCCACAGAAGGAY
104607 P	T	S	CGCGCCGAGGATGCCCACAGAAGGATY
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104614 I		S	CAAAATGGGACAGGAAAGAGTGTACCTCAGTTGAAGAAT
104614 P	C	S	ATGACGTGGCAGACGTGTTGGGTGGAAGCTY
104614 P	G	S	CGCGCCGAGGCTGTTGGGTGGAAGCTY
104614 T	C	S	TGTCAGCTCCACCCAACACTTCTTCAACTGAGGTACACTCTTCCTGGTCCCATTTTGCT
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104621 P	A	A	CGCGCCGAGGATGGGTTCCGGGCY
104621 T	G	A	CGGAGCCCGGAACCCACCCGGGCAGCCCGGTTCCTCCCG
104621 T	A	A	CGGAGCCCGAAACCCATCCGGGCAGCCCGGTTCCTCCCG
104621 IS	[GA]		AGAAAGGGAGGCCCGCGACTGCAACCCCGCGGTACCGGCTCGGGAGGAGCAACCGGGCTGCCCGG[GA]TGGGTTCCGGGCTCCGCCGACCCGAGGCCCCTCCAGCTGCACCATGG CGCCCGCCCCCG
104622 I		S	CGCGGGCCTCGCCCA
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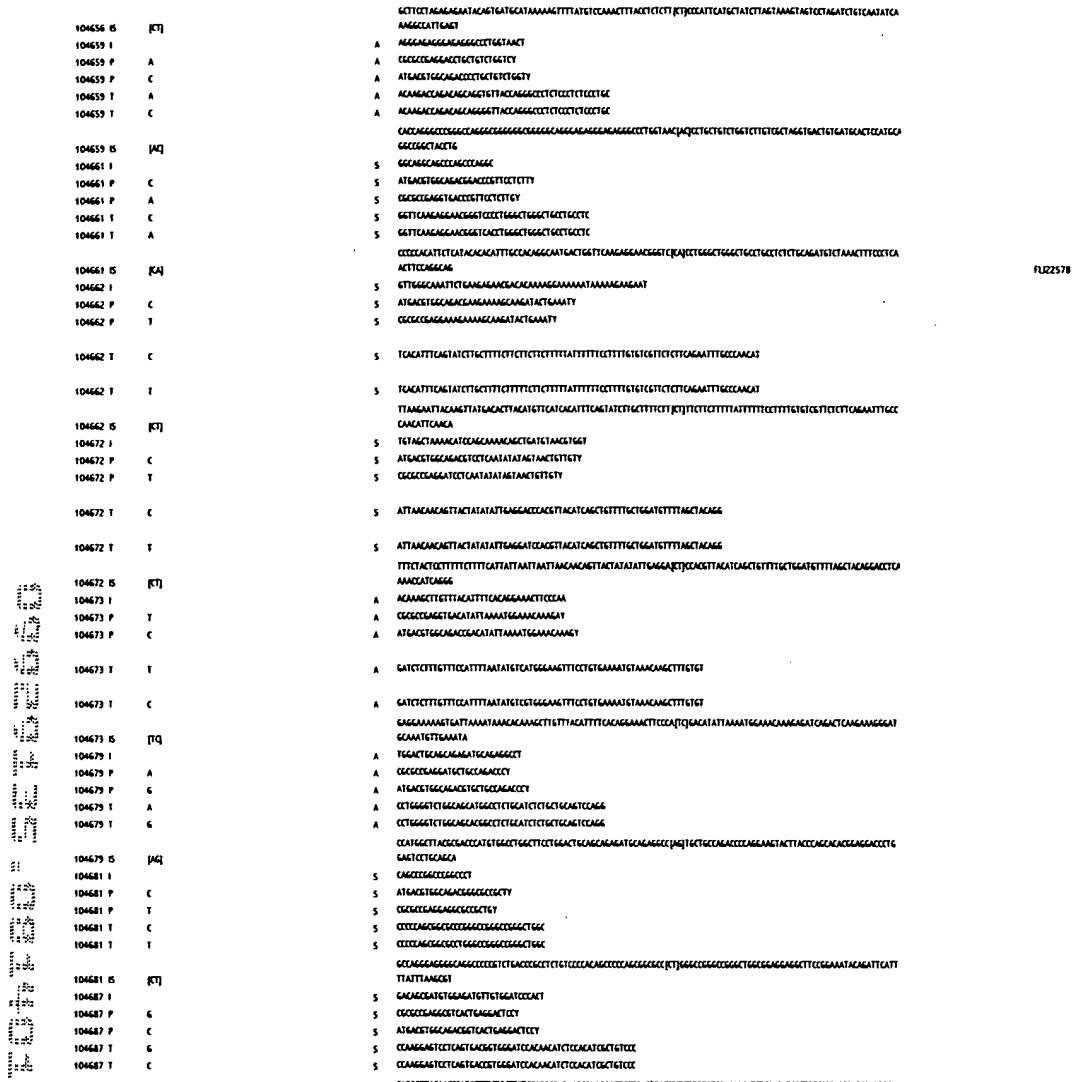
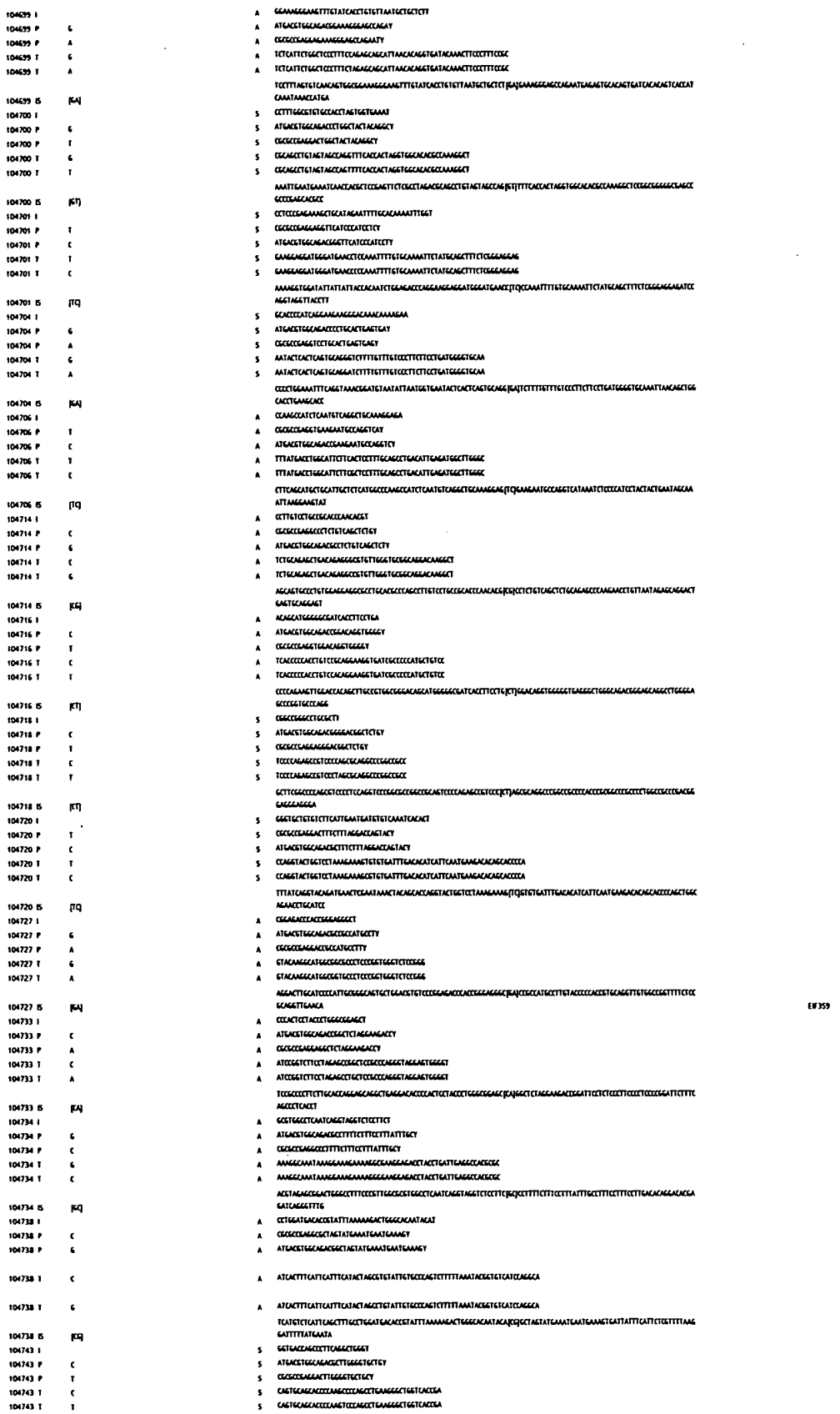
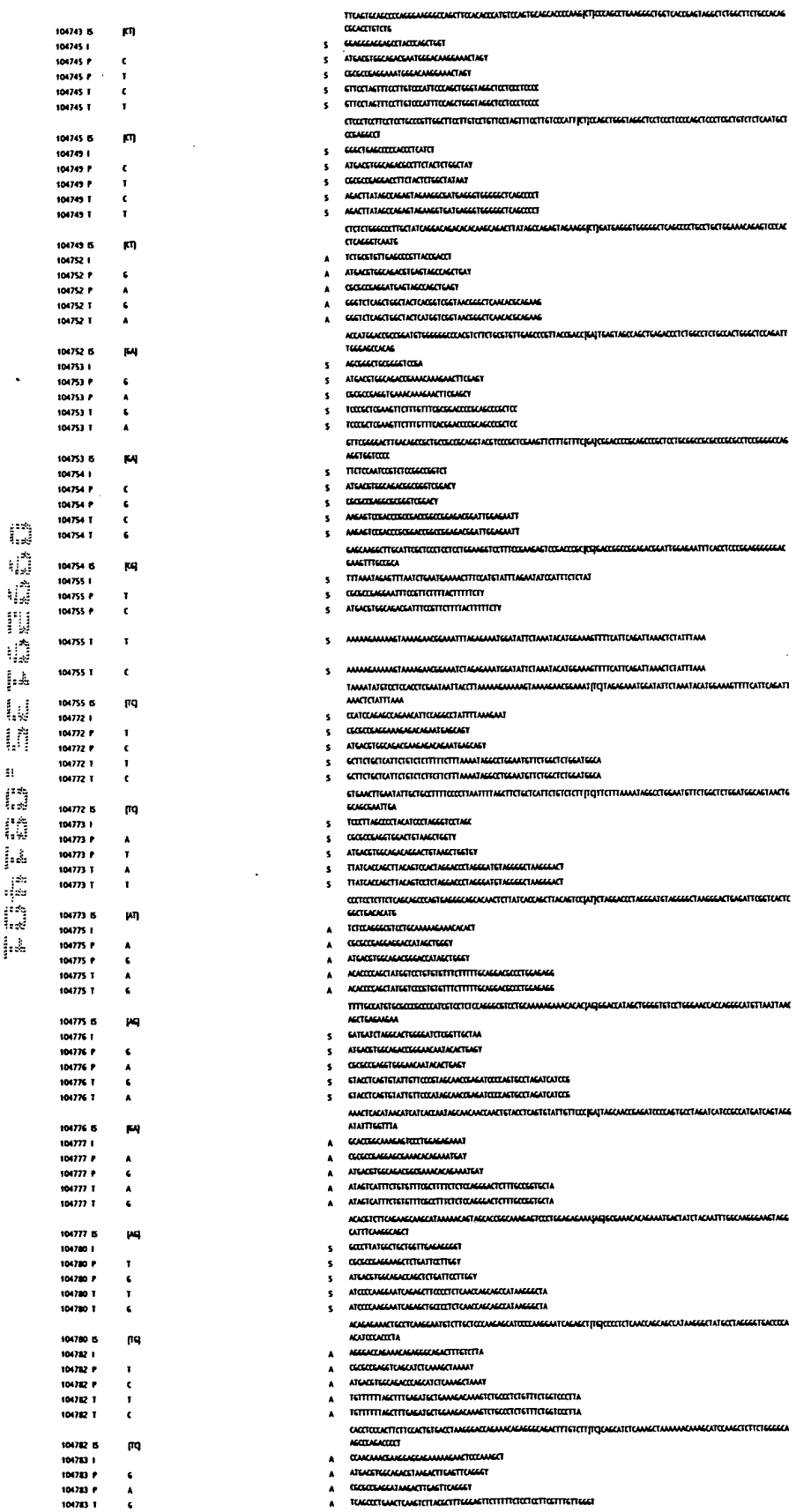
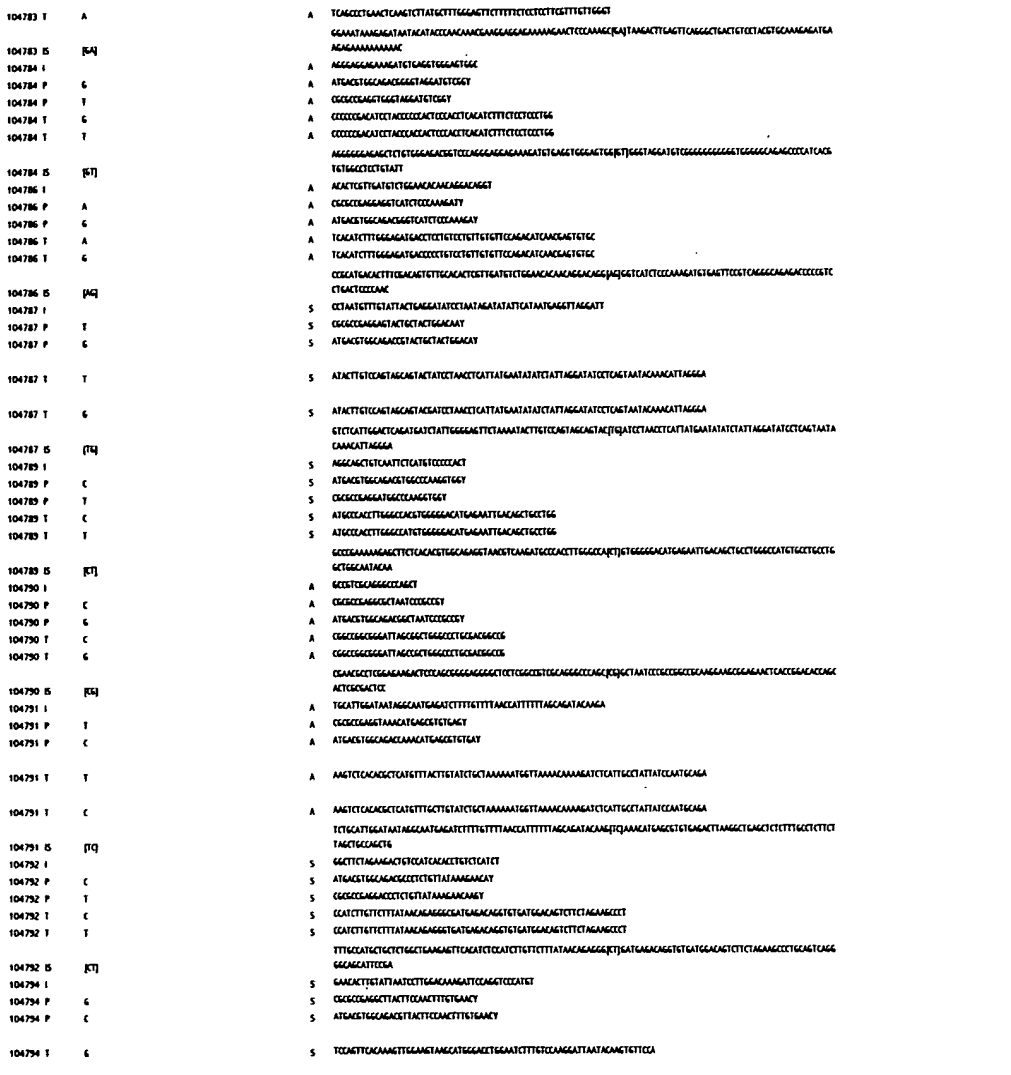


FIGURE 129C

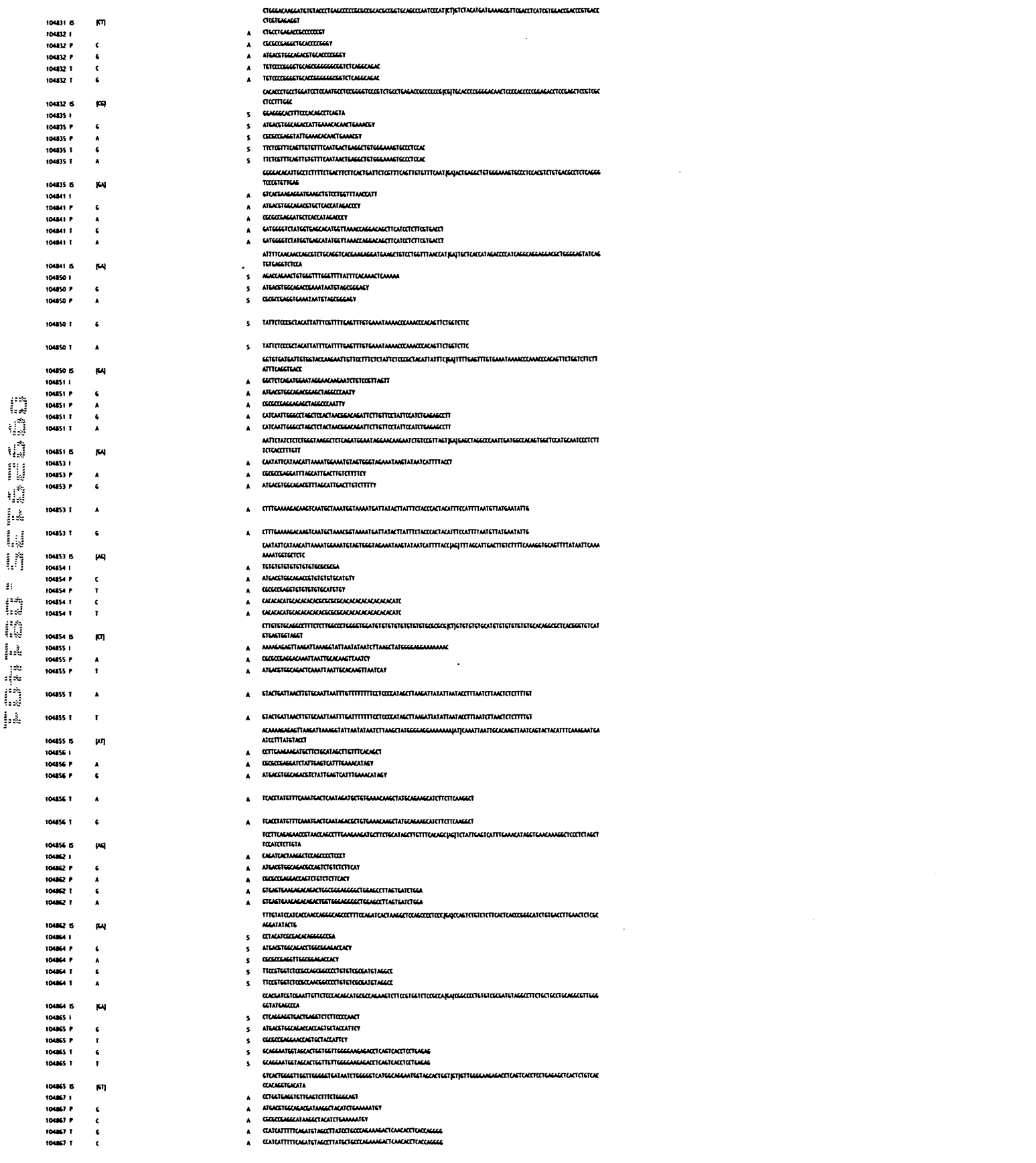


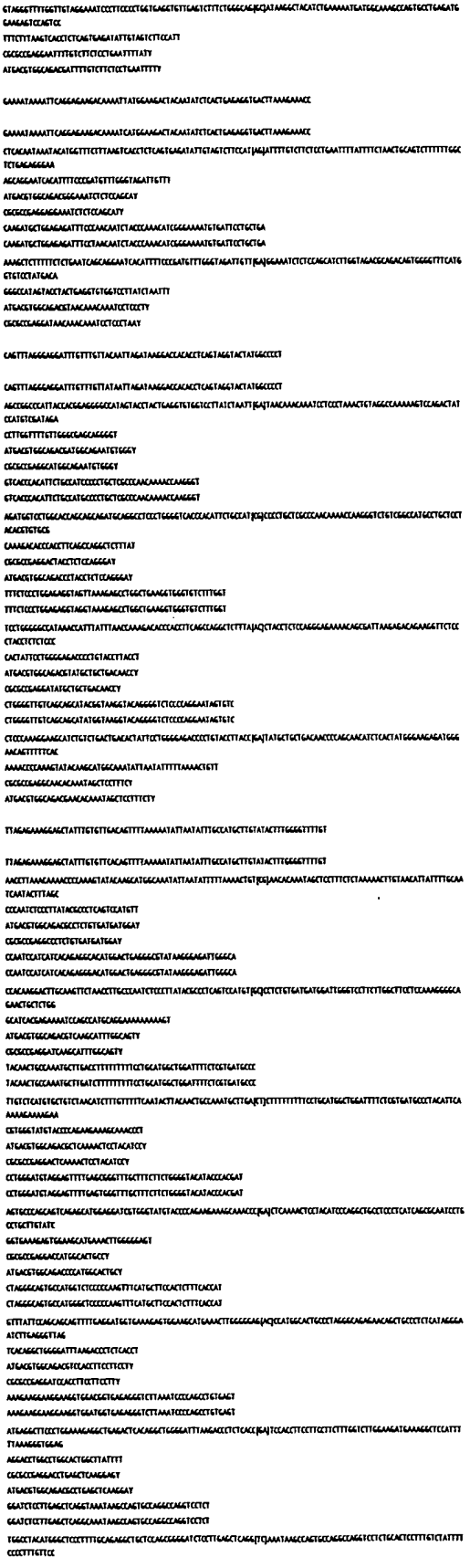


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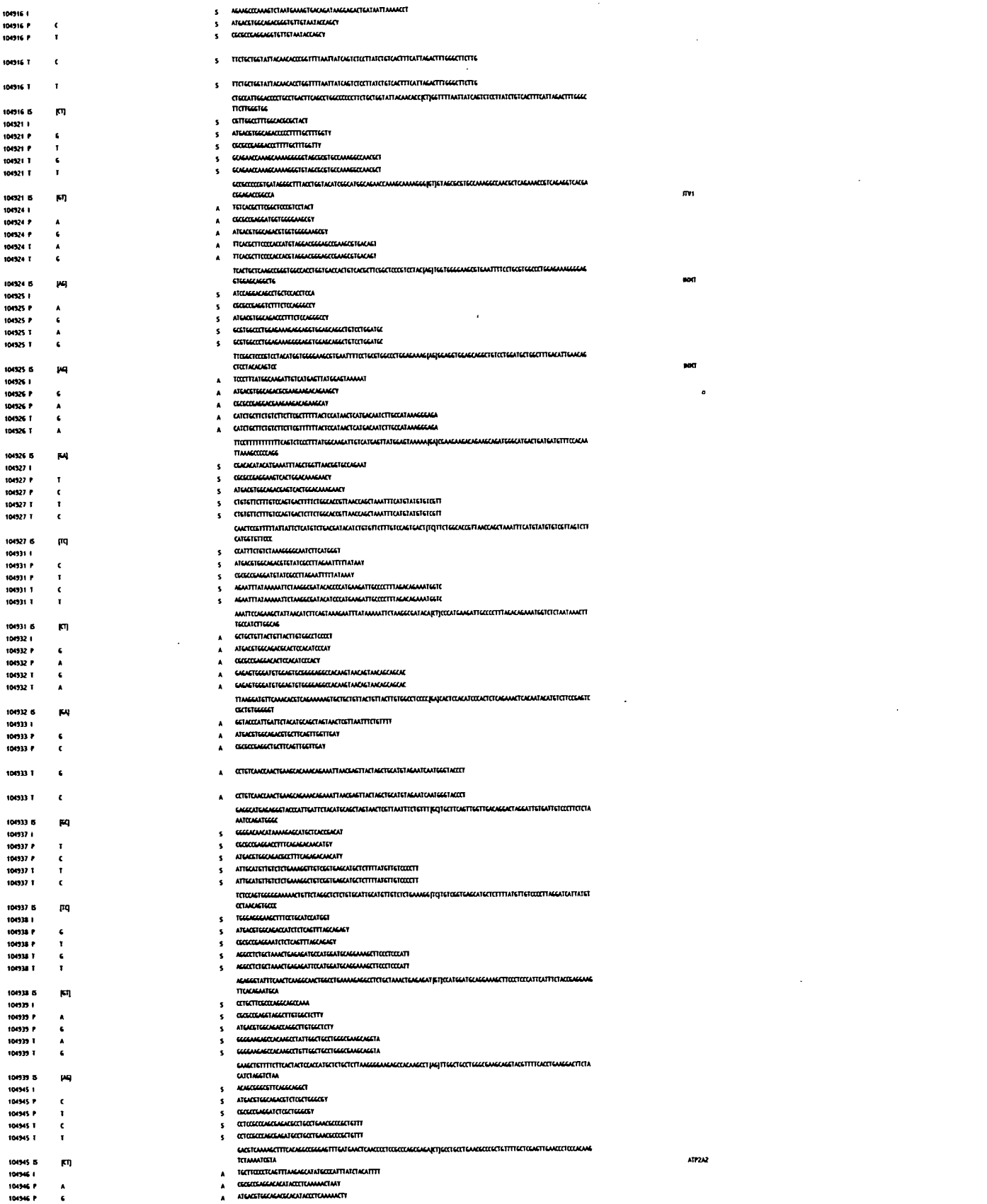








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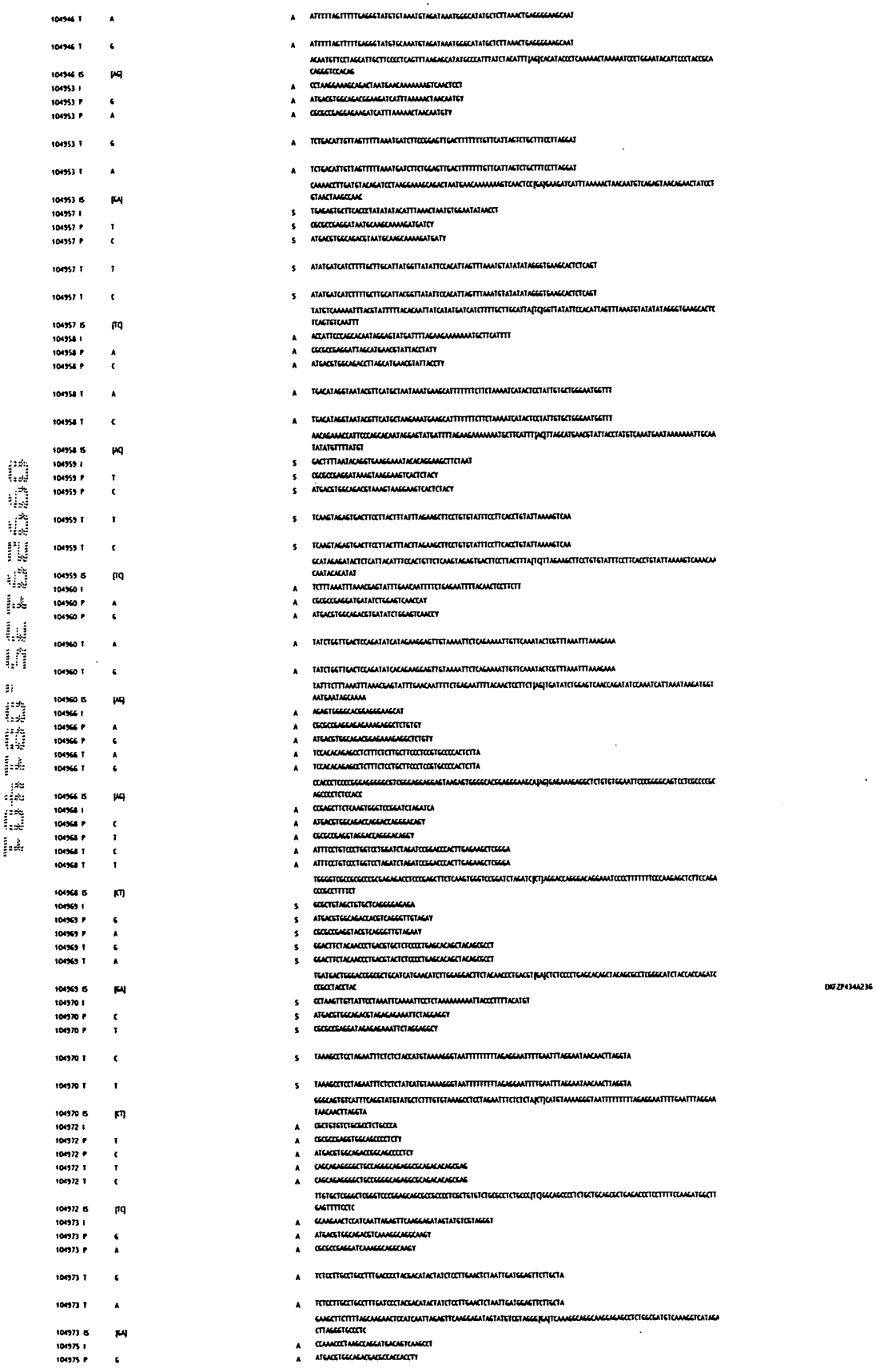
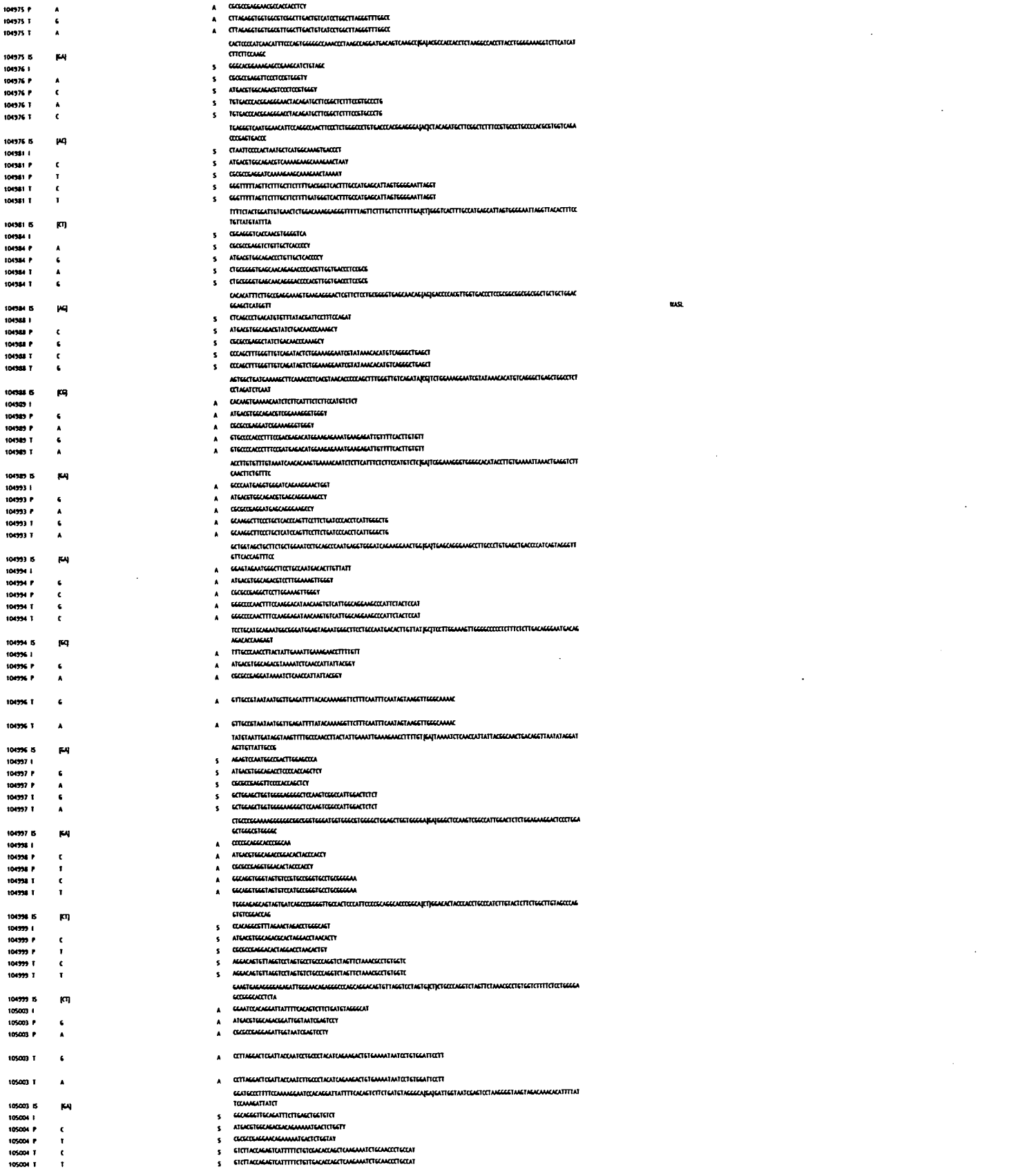


FIGURE 129C



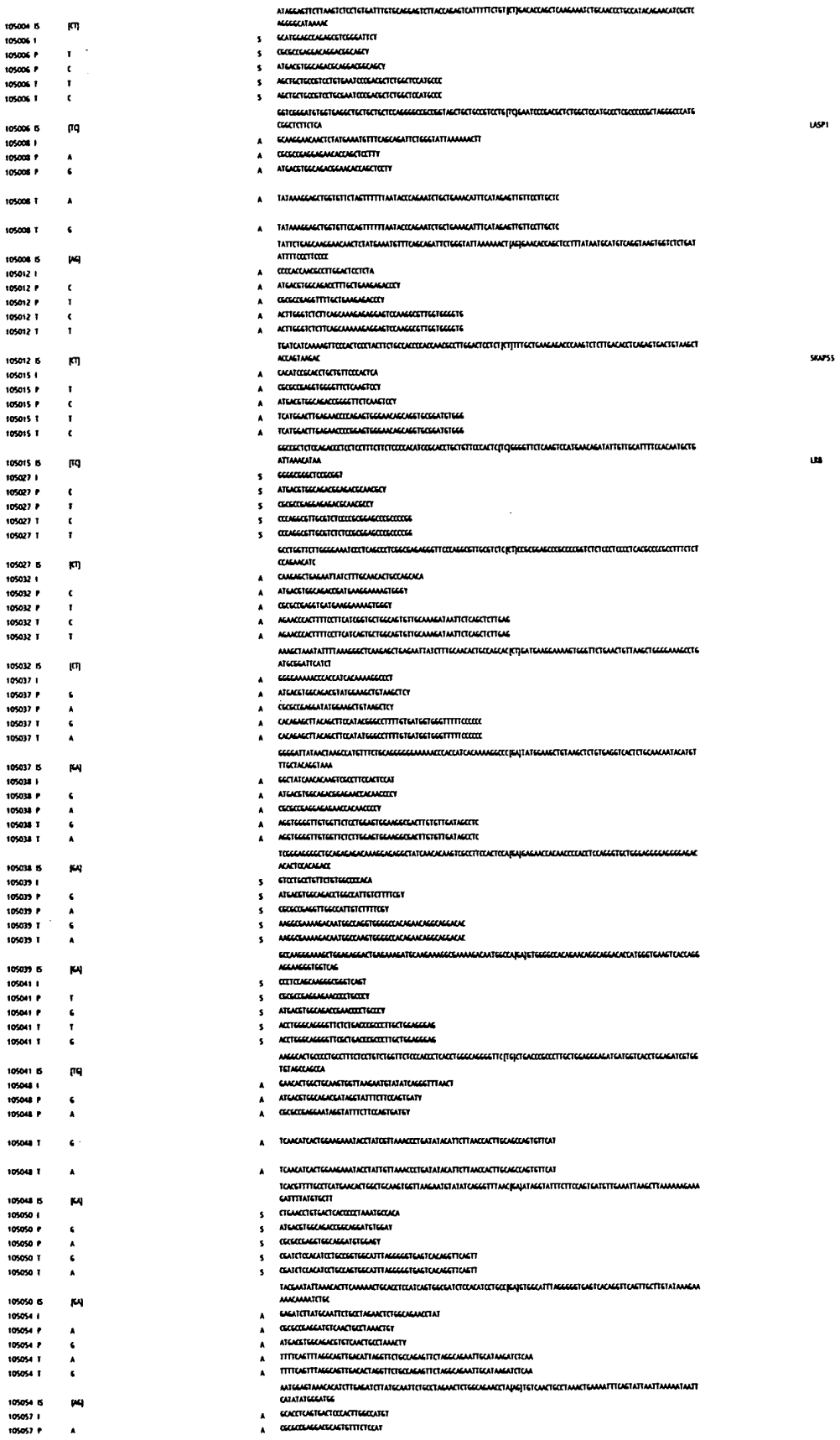


FIGURE 129C

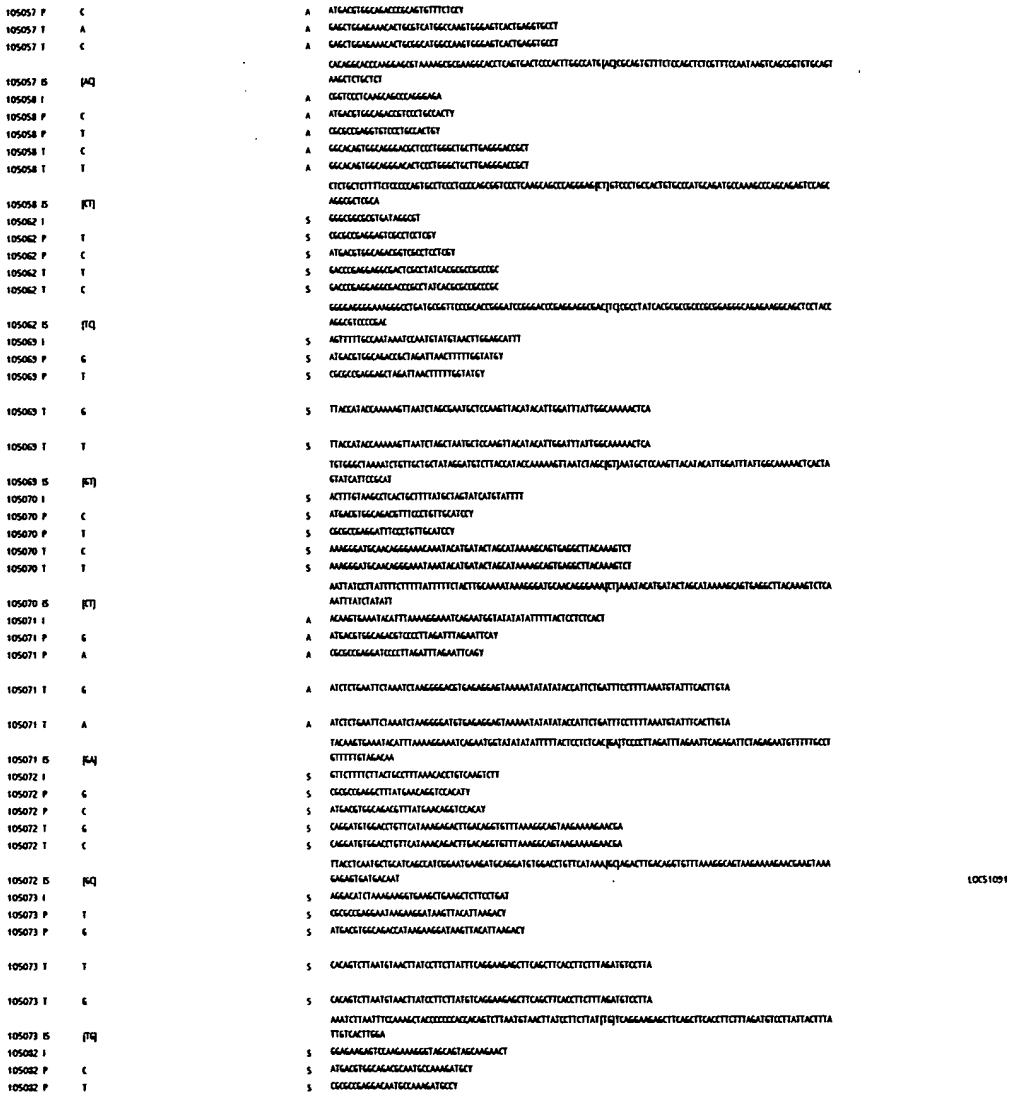
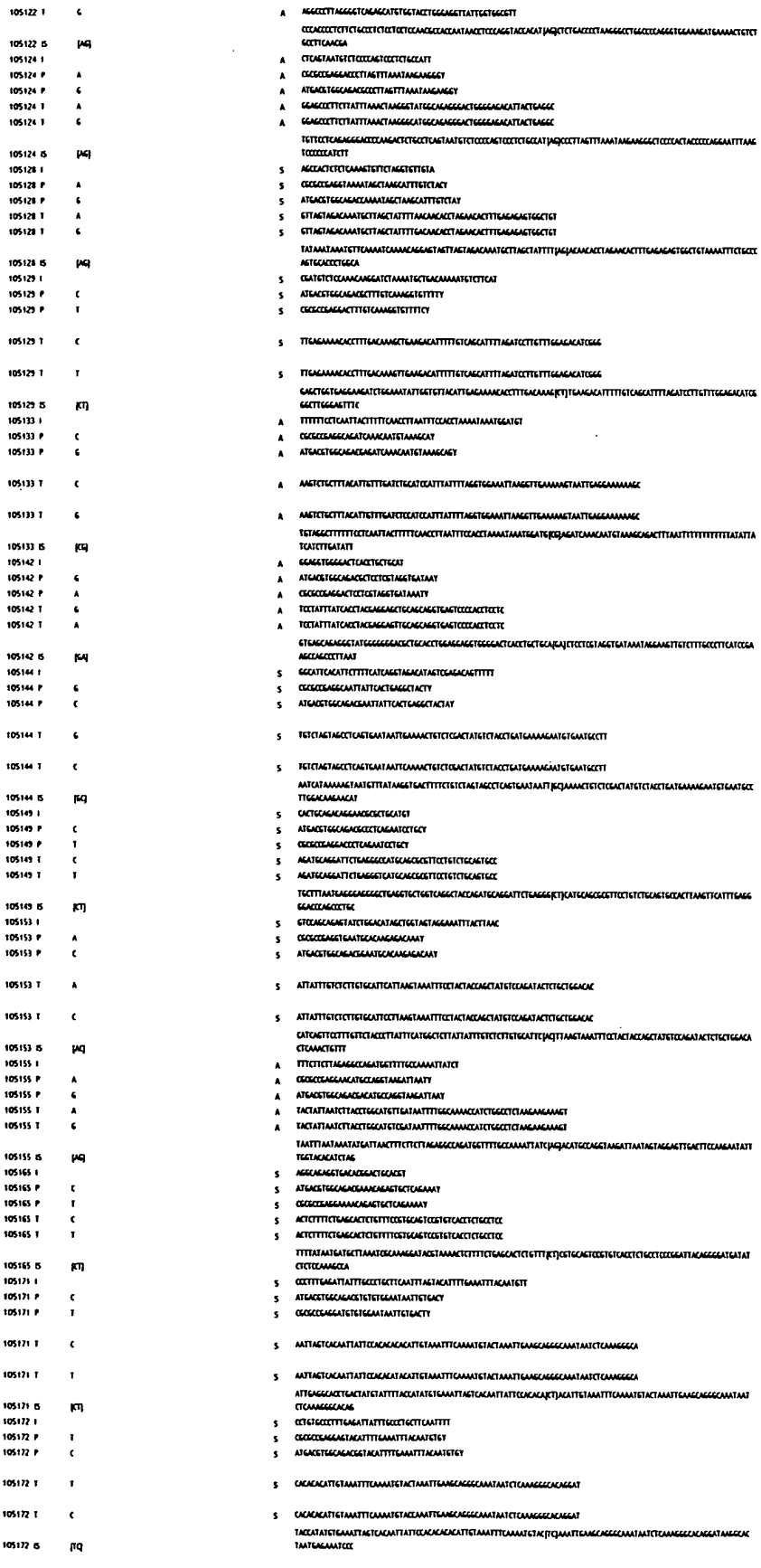
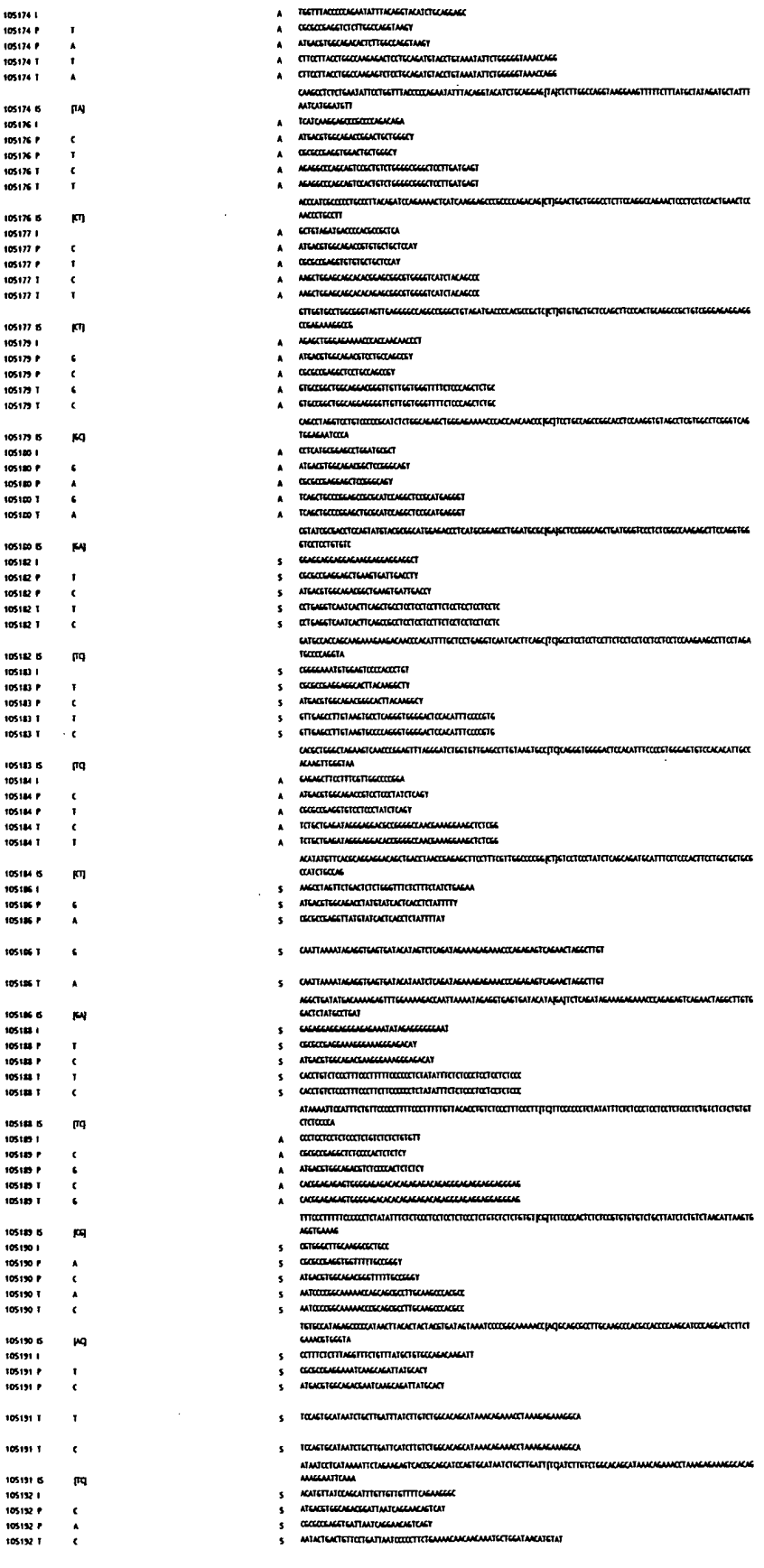


FIGURE 129C





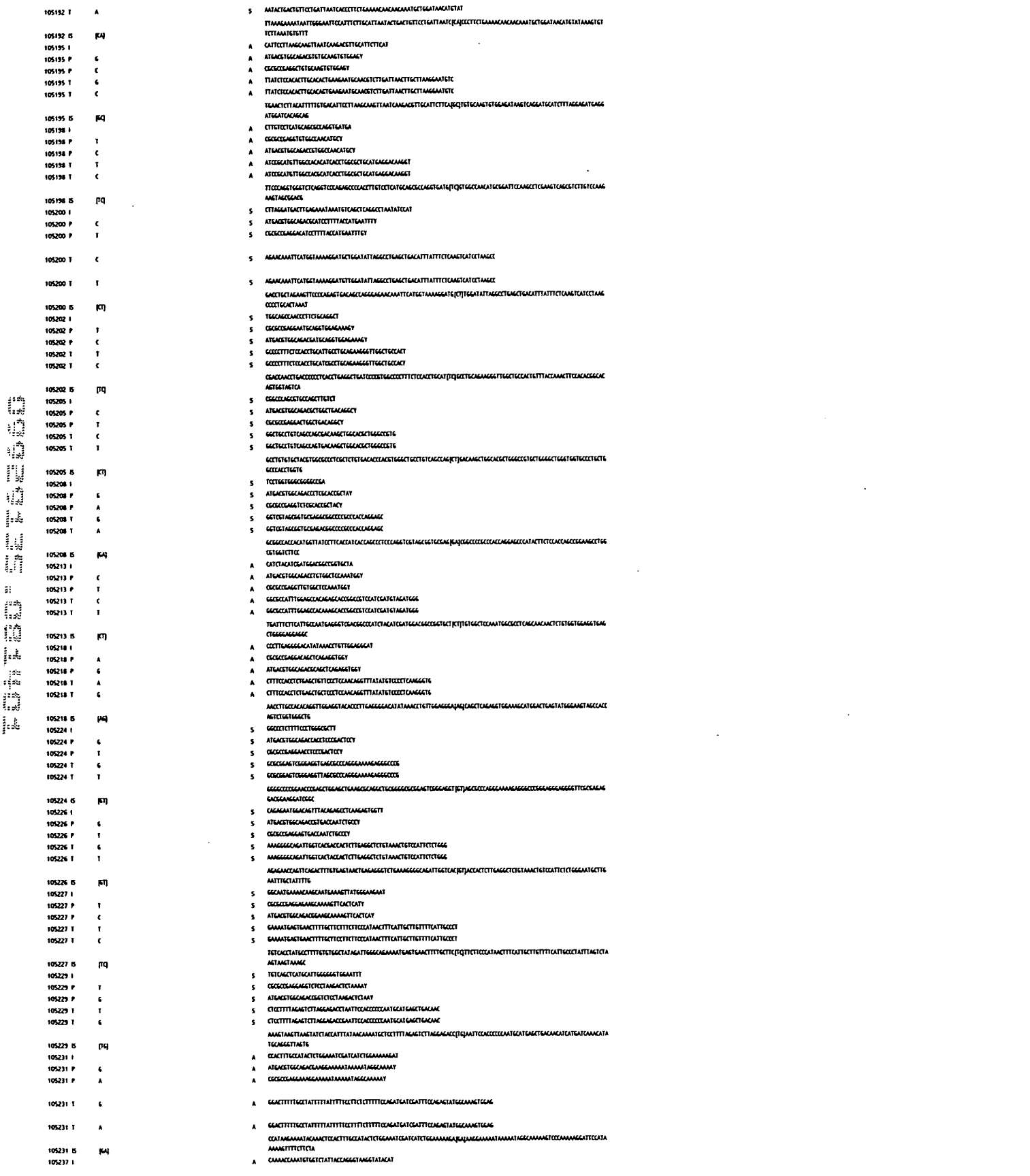
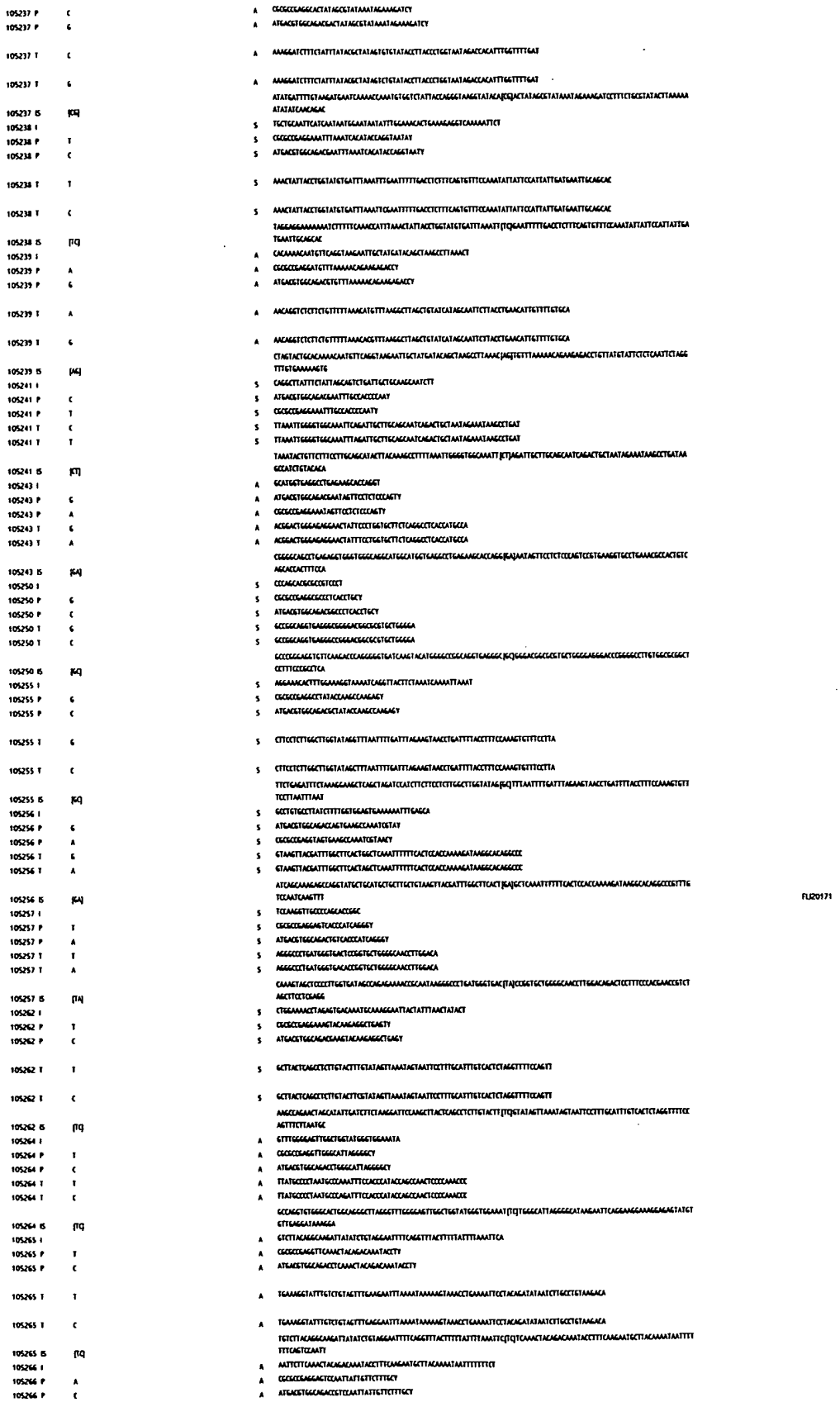


FIGURE 129C



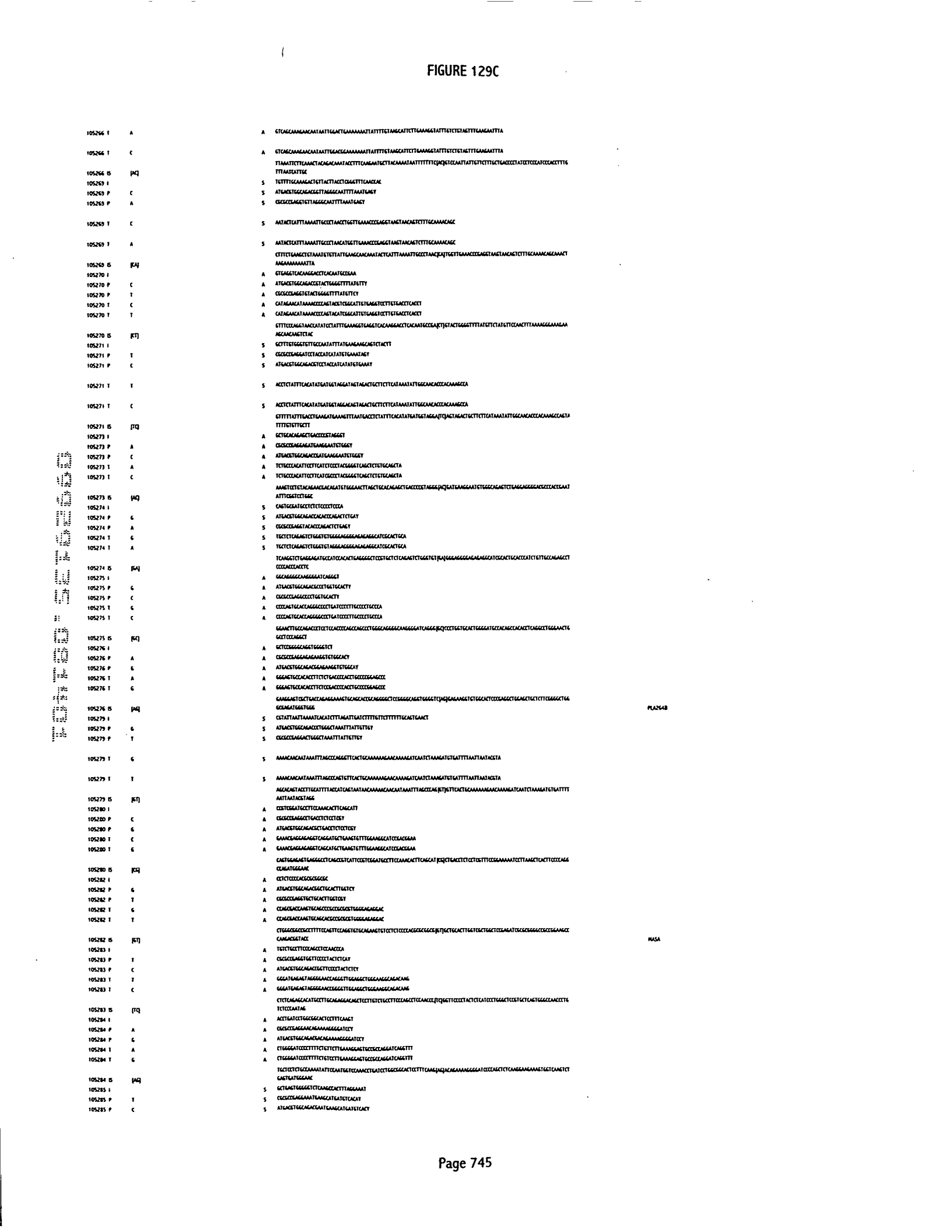
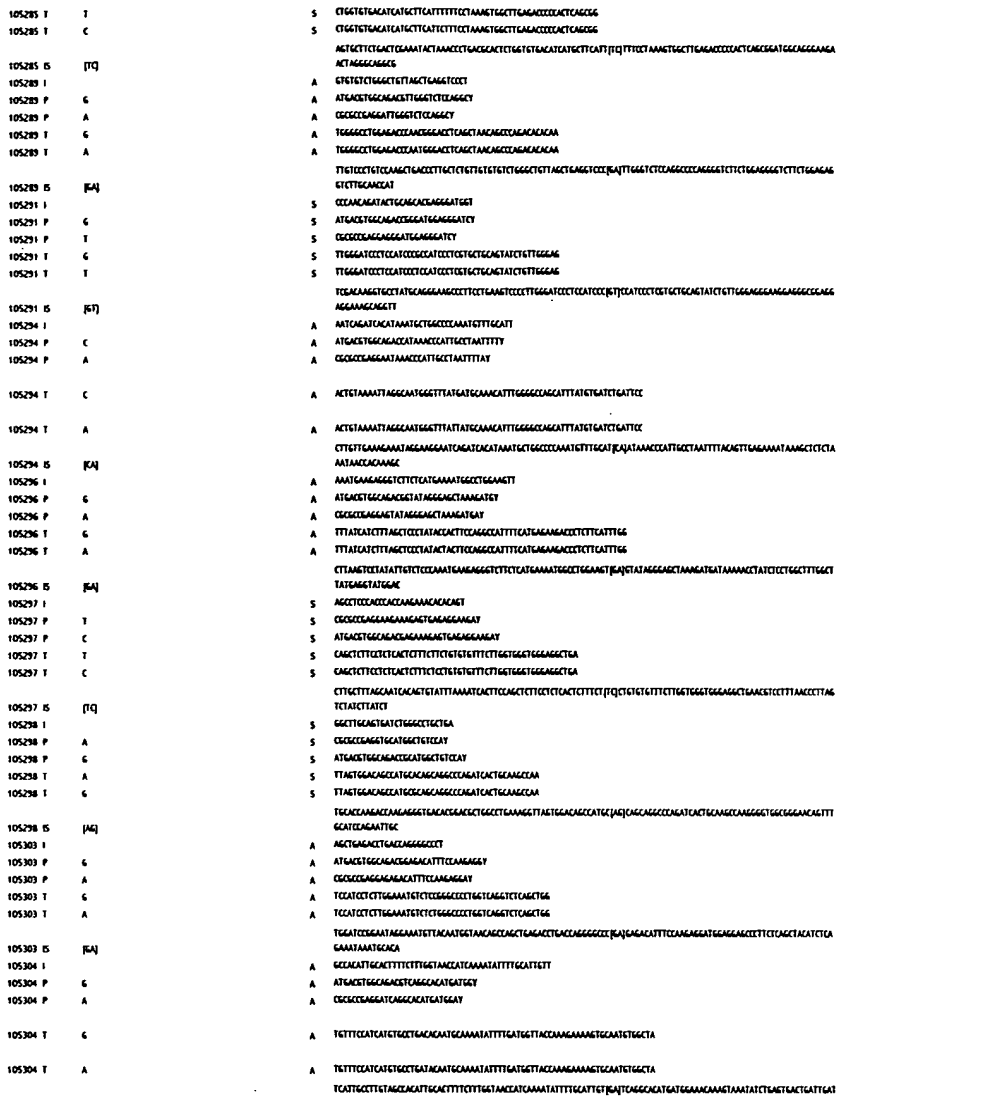


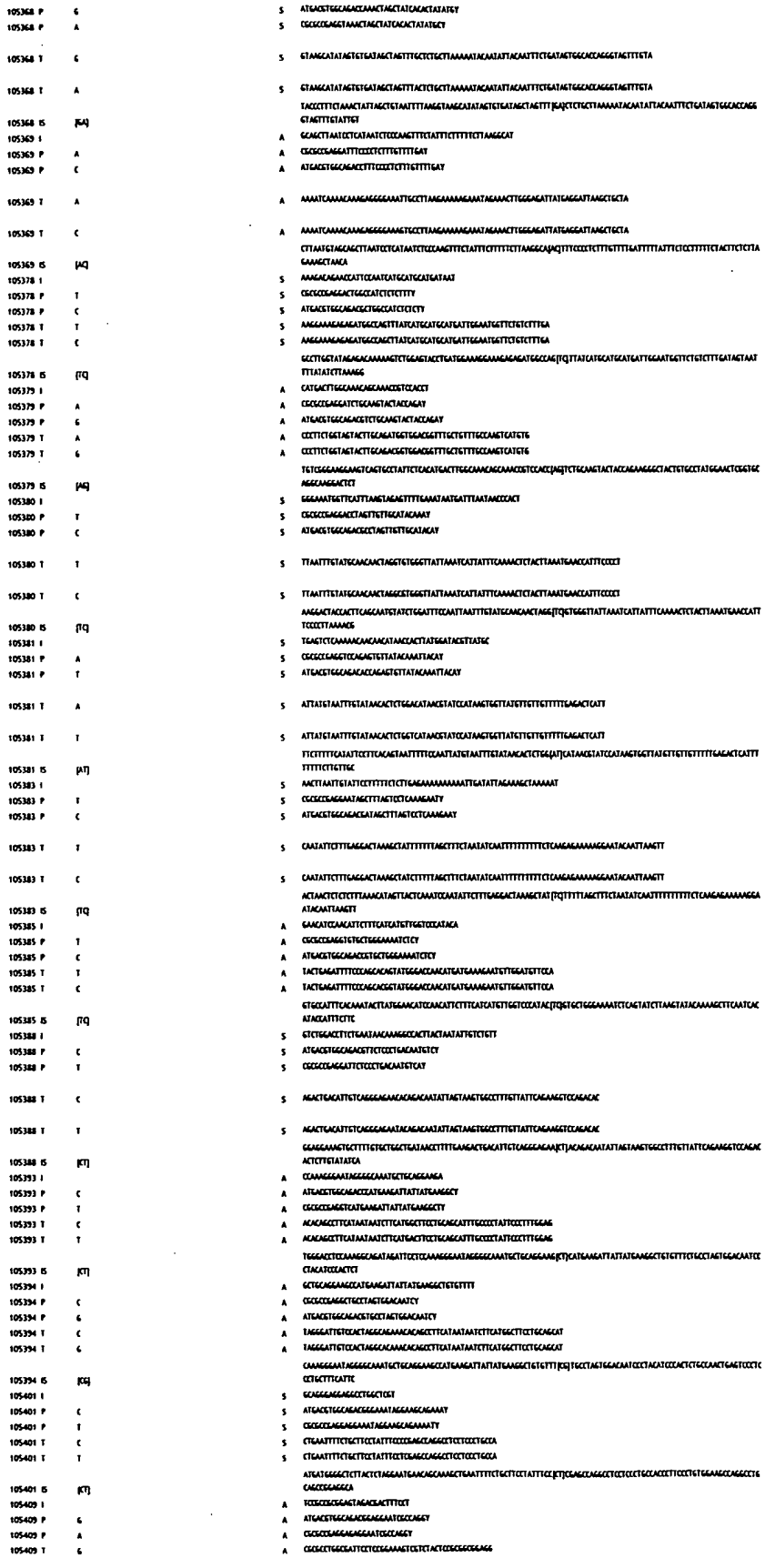
FIGURE 129C





105323 T T A GCGGGCAGCTGGAACCCACCCCTGTCTTGGAGCTCCGGGTAGCTC
105323 T G A GCGGGCAGCTGGAACCCCCCCCTGTCTTGGAGCTCCGGGTAGCTC
105323 IS (TG) CACGGAAAGGGGGTGCGCAGCCTCGAGTTTGAGAGCTACCCGGAGCTCCAAGACAGGGGG[TG]GGGTTCCAGCTGCCCGCACGCCCCGAGCTTCCATCGTAGGTAACGCG GAAGAGCCCGGGA
105326 I A CCTGTTTTCCATATTTAAGTCCCAAATTTTGACTGACAAATAGTCTCTAGTCATCATT
105326 P A A CGCGCCGAGGATATCGACCACTATGGCTY
105326 P G A ATGACGTGGCAGACGTATCGACCACTATGGCTY
105326 T A A ATTCAGCCATAGTGGTCGATATATGATGACTAGAGACTATTTGTCAGTCAAAATTTGGGACTTAAATATGGAAAACAGGCC
105326 T G A ATTCAGCCATAGTGGTCGATACATGATGACTAGAGACTATTTGTCAGTCAAAATTTGGGACTTAAATATGGAAAACAGGCC
105326 IS (AG) AGGCCTGTTTTCCATATTTAAGTCCCAAATTTTGACTGACAAATAGTCTCTAGTCATCAT[AG]TATCGACCACTATGGCTGAATTTTACATCCGAAATAGAGGAGATGAT TTCGGAAAAAAAT
105328 I A CACAATTATGTTTCTTATAGCTATGTGTGGTTTCTGGGTCT
105328 P A A CGCGCCGAGGAACTGAAAACCTACCATTTGY
105328 P G A ATGACGTGGCAGACGACTGAAAACCTACCATTTGY
105328 T A A AAAGCAAATGGTAGGTTTTCAGTTGACCCAGAAACACACACATAGCTATAAGAAACATAATTGTGCA
105328 T G A AAAGCAAATGGTAGGTTTTCAGTTGACCCAGAAACACACACATAGCTATAAGAAACATAATTGTGCA
105328 IS (AG) TGAATGAATAAATAACTATGCACAATTATGTTTCTTATAGCTATGTGTGGTTTCTGGGTC[AG]ACTGAAAACCTACCATTTGCTTTTCTATTCATCTTTATAATGGACTT TCAGAAGTGCATT ORF6
105331 I S CCCAGGAACTATAAAGAGGGGATAGAAGGTTTGAGAAC
105331 P A S CGCGCCGAGGTCTATTTGGTCTTAAAGCTTTGY
105331 P T S ATGACGTGGCAGACACTATTTGGTCTTAAAGCTTTGY
105331 T A S TAAATCAAAGCTTTAAGACCAAATAGATTCTCAAACCTTCTATCCCCTCTTTATAGTTCCTGGGTT
105331 T T S TAAATCAAAGCTTTAAGACCAAATAGTTTCTCAAACCTTCTATCCCCTCTTTATAGTTCCTGGGTT
105331 IS (AT) GAAAATATTTATTTGGTCTTGTTAATTGTGCAGATAAATCAAAGCTTTAAGACCAAATAG[AT]TTCTCAAACCTTCTATCCCCTCTTTATAGTTCCTGGGTTGTTTATTA CAACACAGAAAAG
105336 I A GGCTGCGGCAGGTGGTGGCCGC
105336 P G A ATGACGTGGCAGACGCGCAGGTGGTGGTGY
105336 P T A CGCGCCGAGGTGCAGGTGGTGGTGY
105336 T G A CCACCACCACCACCTCCCCCGCCACCACCTCCCCAGCCAC
105336 T T A CCACCACCACCACCTCCACGCCACCACCTCCCCAGCCAC
105336 IS (CT) ATTCTCACCATGTTTTGGATTGCTTTTCAAACTTGGTTGTGGCTGGGGAGGTGGTGGCGC[CT]GGAGGTGGTGGTGGTGGAGAGTCTCTGTCATGACTTATCACTCTAT CCACTGATCCATAT
105338 I S GCCAACAGGTATGATAATAGCAGATTGCTCCTTCTGTATTGTGTCT
105338 P G S CGCGCCGAGGCTATCTGAGTGTTATAACAAGTTGY
105338 P C S ATGACGTGGCAGACGTATCTGAGTGTTATAACAAGTTGY
105338 T G S CACACAACTTGTTATAACACTCAGATAGGACACAATACAGAAGGAGCAATCTGCTATTATCATACCTGTTGGCCA
105338 T C S CACACAACTTGTTATAACACTCAGATACGACACAATACAGAAGGAGCAATCTGCTATTATCATACCTGTTGGCCA
105338 IS (GC) TCTAGTTATGAAAAACCATTTATACCTTCCATCCACACAACTTGTTATAACACTCAGATA[GC]GACACAATACAGAAGGAGCAATCTGCTATTATCATACCTGTTGGCCA GTCACCTGAAATG
105342 I S CCTGTCTAGAGAGTTTCTTCACATATACCTTCCATTCATTCTGTATAGTTTCAACT
105342 P C S ATGACGTGGCAGACGGCAAACTGTCCTAAAGGY
105342 P T S CGCGCCGAGGAGCAAACTGTCCTAAAGGY
105342 T C S GGATCCTTTAGGACAGTTTGCCGTTGAAACTATACAGAATGAATGGAAGGTATATGTGAAGAAACCTCTAGACAGGGA
105342 T T S GGATCCTTTAGGACAGTTTGCTGTTGAAACTATACAGAATGAATGGAAGGTATATGTGAAGAAACCTCTAGACAGGGA
105342 IS (CT) AATTTGAATTATTATCTTCCTCCATTGATTTAATAGGAGGGGATCCTTTAGGACAGTTTGC[CT]GTTGAAACTATACAGAATGAATGGAAGGTATATGTGAAGAAACCTC TAGACAGGGAAAAA
105348 I S GGAAGAACTGAAAAGAGCTGAGAAAAAAGATAAAGATAAACAAGCTATTT
105348 P C S ATGACGTGGCAGACGATGAATATGAAAAATGGCTGGY
105348 P T S CGCGCCGAGGAATGAATATGAAAAATGGCTGGY
105348 T C S CCTACCAGCCATTTTTCATATTCATCAATAGCTTGTTTATCTTTATCTTTTTCTCAGCTCTTTTCAGTTCTTCCTT
105348 T T S CCTACCAGCCATTTTTCATATTCATTAATAGCTTGTTTATCTTTATCTTTTTCTCAGCTCTTTTCAGTTCTTCCTT
105348 IS (CT) ACATGAAAAAGACAAAAGTGCATTGACAAATAATACCTACCAGCCATTTTTCATATTCAT[CT]AATAGCTTGTTTATCTTTATCTTTTTCTCAGCTCTTTTCAGTTCTTC CTTTCTTTTCTC
105352 I A AAGAAAAAAAATAAACTGTGTTAGGTGCATATTAAATTTTACATCAAATGTTAAAGAAATT
105352 P G A ATGACGTGGCAGACGCTTGGAAGAGTCAAGTTACCY
105352 P A A CGCGCCGAGGATTGGAAGAGTCAAGTTACCY
105352 T G A TTTAGGTAACTTGACTCTTCCAACATTTCTTTAACATTTGATGTAAAATTTAATATGCACCTAACACAGTTTATTTTTTTTCCTT
105352 T A A TTTAGGTAACTTGACTCTTCCAATATTTCTTTAACATTTGATGTAAAATTTAATATGCACCTAACACAGTTTATTTTTTTTCCTT
105352 IS (GA) AAGAAAAAAAATAAACTGTGTTAGGTGCATATTAAATTTTACATCAAATGTTAAAGAAAT[GA]TTGGAAGAGTCAAGTTACCTAAAATGGCTAGCTTACTTATTATTA ATATAGCACCTTCTC
105354 I A TTTCATTATTTCATTGTTACCCTTATCTCTCCCCTCCCT
105354 P A A CGCGCCGAGGATTTTGCAGTTCCCACATY
105354 P G A ATGACGTGGCAGACGTTTTGCAGTTCCCACATY
105354 T A A ACAAATGTGGGAACTGCAAAATGGGAGGGGAGAAGATAAGGGTAACAATGAAATAATGAAAGA
105354 T G A ACAAATGTGGGAACTGCAAAATGGGAGGGGAGAAGATAAGGGTAACAATGAAATAATGAAAGA
105354 IS (AG) AACTGATTTTTGTAAGTTCTCTTTCATTATTTCATTGTTAGCCTTATCTTCTCCCCTCCC[AG]TTTTGCAGTTCCCACATTTGTTCTTTCCTTGAAAGAAGTAGAATCTCCT TATGAGGTCCA
105358 I S AACTGTTAACAGCCTCTTCACCACATCTGATCTATCTTT
105358 P T S CGCGCCGAGGATTCTCTTCACAAAAGGCTY
105358 P C S ATGACGTGGCAGACGTTCTCTTCACAAAAGGCTY
105358 T T S TCAGAGCCTTTTGTGAAGAGAATAAGATAGATCAGATGGTGCTGAGCAGGCTGTTAACAGTTGG
105358 T C S TCAGAGCCTTTTGTGAAGAGAACAAGATAGATCAGATGGTGCTGAGCAGGCTGTTAACAGTTGG
105358 IS (TC) TTGCAATTCACCACTTACGTTGTGGGTTCATGATGTCTTCAGAGCCTTTTGTGAAGAGAA[TC]AAGATAGATCAGATGGTGCTGAGCAGGCTGTTAACAGTTGGCCATG TGAGAGAAGCAGAG
105360 I S CCTCCGTGCTCCTGCTGTTGTCCCTCT
105360 P C S ATGACGTGGCAGACGTCACCTTTCTTGCTGGY
105360 P T S CGCGCCGAGGATCACCTTTCTTGCTGGY
105360 T C S TTTCCCAGCAGCAAAAGGTCACCAAGGACAACACAGCAGGAGCACGCAGCAA
105360 T T S TTTCCCAGCAGCAAAAGGTGATCAAGGACAACACAGCAGGAGCACGCAGCAA
105360 IS (CT) AATGACAACAGCAGAAAAAGAGCCTGGGAGGGCTCCATTCCTTTCCCAGCAAGAAAGGTGA[CT]CAAGGACAACACAGCAGGAGCACGCAGGAAATCATGTCTTATTAACCA AGTGTACTCCAAAT
105364 I S GGGAGTGAAAATGAACTCAGCGGATTTTCTCCCCT
105364 P C S ATGACGTGGCAGACGATTCTCTCCATTTTCTGTY
105364 P T S CGCGCCGAGGAATTCTCTCCATTTTCTGTTY
105364 T C S TGAAAACAGAAAATGGAGAGGAATCCGGGAGAAAATCCGCTGAGTTCATTTTCACTCCCAT
105364 T T S TGAAAACAGAAAATGGAGAGGAATTGGGGAGAAAATCCGCTGAGTTCATTTTCACTCCCAT
105364 IS (CT) GGGACTACCAGGCACAAGACATGATGGACAAGTCTGAAAACAGAAAATGGAGAGGAAT[CT]GGGGAGAAAATCCGCTGAGTTCATTTTCACTCCCATAATGAAAAG AAATCTGGTTCAGCC
105368 I S CAAACTACCCTGGTGCCACTATCAGAAATTGTAATATTGTATTTTTAAGCAGAGA

FIGURE 129C





105409 T	A	A	CGCGCCTGGCGATTCCTCTGGAAAGTCGTCTACTCCGCGGCGGAAG		
105409 IS	(GA)		CCCTGGAGCCCCCGCGCTCTACATCGCCGCGAGCCTCGCCGCGGAGTACACGCACTTTCC[GA]GAGGAATCGCCAGGCGCGAGCCCGGGCCTGCCCGGCCCTCGCTCCGG AGTGTCCTCGCG		
105410 I		A	GTCTGAGATATGTTTACATAGGGCTGCTTCTTCCTGA		
105410 P	C	A	ATGACGTGGCAGACCTGGCAGTAGTATACATGTCY		
105410 P	T	A	CGCGCCGAGGTYGGCAGTAGTATACATGTCY		
105410 T	C	A	AATGGACATGTATACTACTGCCAGCAGGAAGAAGCAGCCCTATGTAAACATATCTCAGACTT		
105410 T	T	A	AATGGACATGTATACTACTGCCAACAGGAAGAAGCAGCCCTATGTAAACATATCTCAGACTT		
105410 IS	(CT)		AAAACTGAATTGCAGATTTTACAAGTCTGAGATATGTTTACATAGGGCTGCTTCTTCCTG[CT]TGGCAGTAGTATACATGTCCATTTTTACTCCACTTACATCTGAAATT GGGCAATTTGTGA		
105411 I		A	ATGGACAAAAAGTGCCATGAAATAGTTTACATGAAATGGTGACCAAATT		
105411 P	A	A	CGCGCCGAGGATGGACTCAAAGCTATGAAAAY		
105411 P	G	A	ATGACGTGGCAGACGTGGACTCAAAGCTATGAAAY		
105411 T	A	A	TACATTTTCATAGCTTTGAGTCCATATTTGGTCACCATTTCATGTAAACTATTTCATGGCACTTTTTGTCCATGC		
105411 T	G	A	TACATTTTCATAGCTTTGAGTCCACATTTGGTCACCATTTCATGTAAACTATTTCATGGCACTTTTTGTCCATGC		
105411 IS	(AG)		CTTGCTAATTGCATGGACAAAAAGTGCCATGAAATAGTTTACATGAAATGGTGACCAAAT[AG]TGGACTCAAAGCTATGAAAATGTACTATACTGACTGATTTTAGAGC TGATTATCACATTC		
105412 I		A	CTGAGAAGAATTGTTCATTCTAATGGGACTATACTGTATCTCAATAAAATATAAAATAAAT		
105412 P	C	A	CGCGCCGAGGCATGGTACTATATTGGTAAGAAAGAT		
105412 P	G	A	ATGACGTGGCAGACGATGGTACTATATTGGTAAGAAAGAT		
105412 T	C	A	AAACTCTTTCTTACCAATATAGTACCATGTTTATTTTATATTTTATTGAGATACAGTATAGTCCCATTAGAATGAACAATTCTTCTCAG		
105412 T	G	A	AAACTCTTTCTTACCAATATAGTACCATCTTTATTTTATATTTTATTGAGATACAGTATAGTCCCATTAGAATGAACAATTCTTCTCAG		
105412 IS	(CG)		CTGAGAAGAATTGTTCATTCTAATGGGACTATACTGTATCTCAATAAAATATAAAATAAA[CG]ATGGTACTATATTGGTAAGAAAGAGTTTATCTTTTTATTGGATAA GTTCACAACCTCTGG		
105413 I		A	TTGTCCCTAGAATGAACACTTGCACATGAGTGTCCTGA		
105413 P	C	A	ATGACGTGGCAGACCGGAGATTTGCGGAAGY		
105413 P	T	A	CGCGCCGAGGTGGAGATTTGCGGAAGAT		
105413 T	C	A	CTTCTCTTCCGCAAATCTCCGCAGGACACTCATGTGCAAGTGTTCATTCTAGGGACAAGG		
105413 T	T	A	CTTCTCTTCCGCAAATCTCCACAGGACACTCATGTGCAAGTGTTCATTCTAGGGACAAGG		
105413 IS	(CT)		GTGGCCTGATTCTTTTATGGTCCTTGTCCCTAGAATGAACACTTGCACATGAGTGTCCTG[CT]GCAGATTTGCGGAAGAGAAGGTTGAGCTGCTGGAAGAGCCATCGC ACAGTGCTTCGCCT		
105414 I		S	GACAACATGCTCTTTAAATATATGATTAAACTAAAAGAGGGAGGACAGTGGTCAA		
105414 P	G	S	ATGACGTGGCAGACCGCCTCTAGGTCGTCY		
105414 P	A	S	CGCGCCGAGGTGCCTCTAGGTCGTCTY		
105414 T	G	S	ACCCAGACGACCTAGAGGCGTGACCACTGTCCTCCCTCTTTAGTTTAATCATATATTTAAAGAGCATGTTGTCTC		
105414 T	A	S	ACCCAGACGACCTAGAGGCATGACCACTGTCCTCCCTCTTTAGTTTAATCATATATTTAAAGAGCATGTTGTCTC		
105414 IS	(GA)		CCAAGTGAGCACAGGGACTTTAGGAAGCCCATGCCAGGGGCACCCAGACGACCTAGAGGC[GA]TGACCACTGTCCTCCCTCTTTAGTTTAATCATATATTTAAAGAGCA TGTTGTCTCTACA		
105415 I		S	CCCACTCCATATTGATACACATCCGCCCCTCT		
105415 P	T	S	CGCGCCGAGGATCGCCTTCCACCATY		
105415 P	C	S	ATGACGTGGCAGACGTCGCCTTCCACCAT		
105415 T	T	S	CGACATGGTGCAAGGCGATGAGGGGCGATGTGTATCAATATGGAGTGCCCC		
105415 T	C	S	CGACATGGTGCAAGGCGACGAGGGGCGATGTGTATCAATATGGAGTGCCCC		
105415 IS	(TC)		CACGGCCAGCACACGCCTGCTACATGCAAACAGATGCGCCACATCGACATGGTGCAAGGCGA[TC]GCAGGGCCGATGTGTATCAATATGGAGTGGGGGCCTTCGGGCACG ATGGCTCGCTCAAC		HIV2
105416 I		A	CAACTTCCCAAAGGTCTTTGGCAGTCCGTCTT		
105416 P	G	A	ATGACGTGGCAGACGCTTTCTTTAGGGCCTGY		
105416 P	A	A	CGCGCCGAGGACTTTCTTTAGGGCCTGGY		
105416 T	G	A	ACTTCCAGGCCTAAAGAAAGCAGACGCAACTGCCAAAGACCTTTGGGAAGTTGTT		
105416 T	A	A	ACTTCCAGGCCTAAAGAAAGTAGACGCAACTGCCAAAGACCTTTGGGAAGTTGTT		
105416 IS	(GA)		CTGACTGGACACACTACAGATTTGAACAACAACTTCCCAAAGTCTTTGGCAGTCGTCT[GA]CTTTCTTTAGGGCCTGGAAGTTCTTTGCATGTAGCTGCTAAAAGCTG TCCAAGCTATAAC		
105418 I		A	GAACGCTCCACTGCCCTGTAGTGTCATTCTTCT		
105418 P	A	A	CGCGCCGAGGAAAGTCAGGGGGATCAGGY		
105418 P	C	A	ATGACGTGGCAGACCAAGTCAGGGGATCAGGY		
105418 T	A	A	GGGTCCTGATCCCCTGACTTTGAAGAATGACACTACAGGGCAGTGGACGGTTCCC		
105418 T	C	A	GGGTCCTGATCCCCTGACTTGGAAGAATGACACTACAGGGCAGTGGACGGTTCCC		
105418 IS	(AC)		TTGAATACTCATCTGCACAGTGACAAGGGAACCS[TCCACTGCCCTGTAGTGTCATTCTTC[AC]AAGTCAGGGGATCAGGACCCTCCCAGCCAAACTCATTTCCCACTACCC TGCAACCTGTAC		
105419 I		A	CTGAAGATCTTTGATGGCGACGACGCGGTT		
105419 P	G	A	ATGACGTGGCAGACGAAGAAGCCAGTTCCY		
105419 P	A	A	CGCGCCGAGGAAGAAGAAGCCAGTTCCY		
105419 T	G	A	AGGCGGAACTGGCTTCTTCTCACCGCGTCGTCGCCATCAAAGATCTTCAGCG		
105419 T	A	A	AGGCGGAACTGGCTTCTTCTCACCGCGTCGTCGCCATCAAAGATCTTCAGCG		
105419 IS	(GA)		ACGGAGCTTACCCGGCCCAGGGAAGCAAACGCTGAAGATCTTTGATGGCGACGACGCGGT[GA]AGAAGAAGCCAGTTCCGCCTCGTTACGGTGTCCCGCCTGGCCGGTGC CGAGGAGCTGCTG		
105421 I		A	GTTGGGCCCTCCCGGGTGTGAGTTACAT		
105421 P	G	A	ATGACGTGGCAGACGAGCCCTGTTGTGGAY		
105421 P	A	A	CGCGCCGAGGAAGCCCTGTTGTGGAY		
105421 T	G	A	AGACTCCACAACAGGGCTCTGTAACTCACACCCGGAGGGCCCAACAG		
105421 T	A	A	AGACTCCACAACAGGGCTTTGTAACTCACACCCGGAGGGCCCAACAG		
105421 IS	(GA)		TTATCTGAGGGCGTTCAGCTCGCAGAACAGTTCTGTTGGGCCCTCCGGGTGTGAGTTACA[GA]AGCCCTGTTGTGGAGTCTGGGGTGTCTGATTTTAGACACTGTCCCAT CTCAAGTGCATGT		
105422 I		S	CAAATGCAGTACATAGAGTTTGTCTCCCTGATGCATCCTT		
105422 P	T	S	CGCGCCGAGGATGAGTTTCAACAAGTGY		
105422 P	C	S	ATGACGTGGCAGACGTGAGTTTCAACAAGTGY		
105422 T	T	S	ACATCACCTGGTTGAAACTCATAGGATGCATCAGGGAGACAAACTCTATGTACTGCATTTGTG		
105422 T	C	S	ACATCACCTGGTTGAAACTCACAGGATGCATCAGGGAGACAAACTCTATGTACTGCATTTGTG		
105422 IS	(TC)		CCATCATTTTTCAGTGCTCCAAATCCTGTCACAAACATCACATCACCTGGTTGAAACTCA[TC]AGGATGCATCAGGGAGACAAACTCTATGTACTGCATTTGTGTAGGGA ACAGGCTAGAAA		DESC1
105423 I		A	CGGGGCTGCCCTGGGTTGCTT		
105423 P	A	A	CGCGCCGAGCACAGGCCAGTGAATY		
105423 P	G	A	ATGACGTGGCAGACGCAGGCCAGTGAATY		
105423 T	A	A	TGGCATCAGCTGGCCTGTAGCAACCCAGGGCAGCCCCGT		
105423 T	G	A	TGGCATCAGCTGGCCTGCAGCAACCCAGGGCAGCCCCGT		
105423 IS	(AG)		CCGGGCGGAGGGCTCGGCTGCTTTTTGGTTGCTTCCTACCGGGGCTGCCTGGGTTGCT[AG]CAGCCAGCTGAATGCCAGGAATTGGGTGAGGAGTCCGGGAGCAAAA ATTGTAACAAAGG		
105424 I		A	GCCCTGCTTCAGTCCTCCTCTGCCA		
105424 P	C	A	ATGACGTGGCAGACGCCTGAGTTTCAAGTGY		
105424 P	T	A	CGCGCCGAGGTGCCTGAGTTTCAAGTGY		
105424 T	C	A	ATTGCACTTGAAACTCAGGCGGGCGAAGAGGAGACTGAAGCAGGGCAA		
105424 T	T	A	ATTGCACTTGAAACTCAGGCAGGCGAAGAGGAGACTGAAGCAGGGCAA		

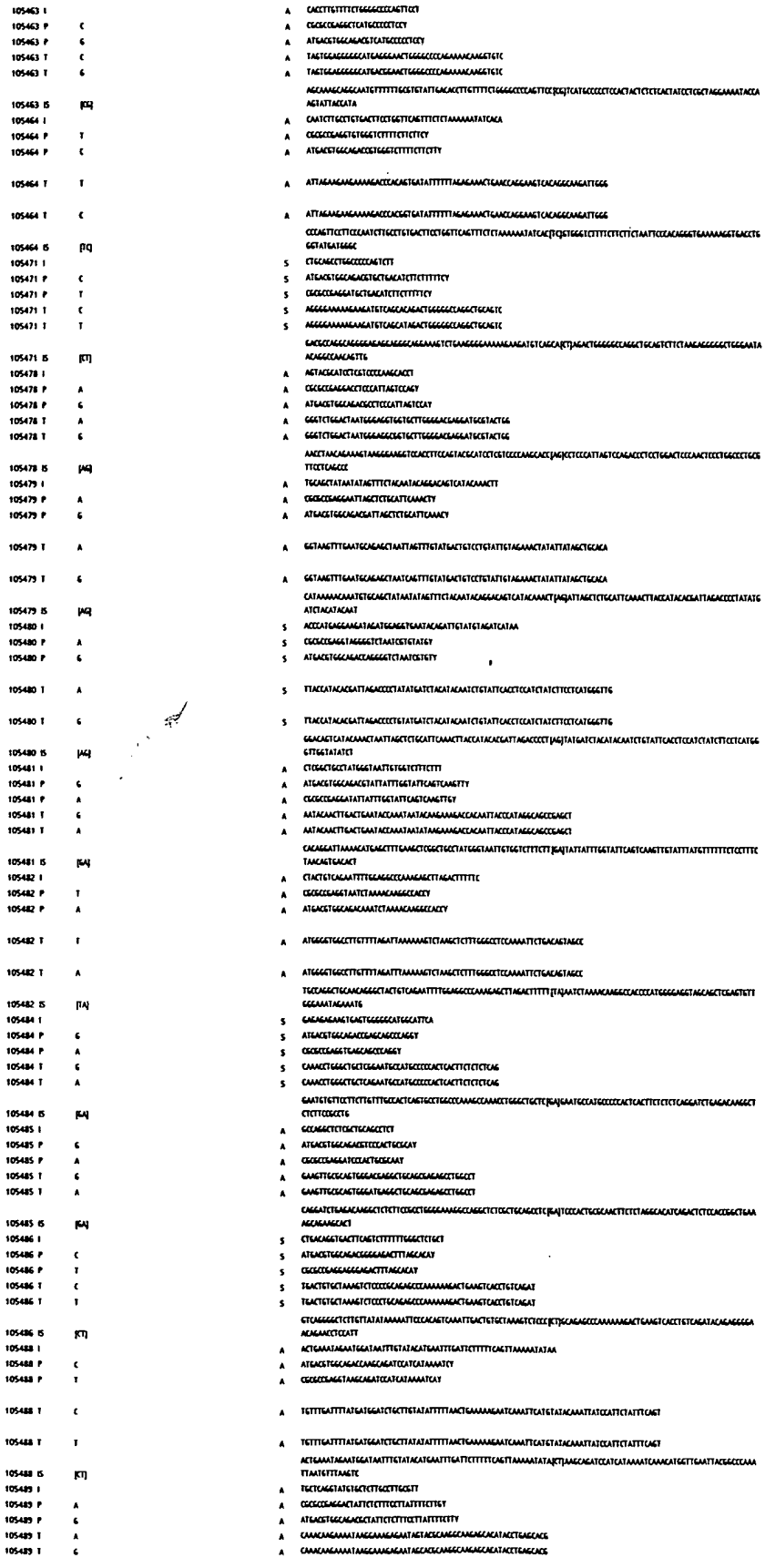




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				TCCATGTGAGCCATATAGAGGTACTACCACCCTTGCCCCTGCTTCAGTCCTCCTCTCGCC[CT]GCCTGAGTTTCAAGTGCAATGGAAATGTGCTTAGTTGATGGTGCCAAC	
105424 IS	[CT]			CCCTACCTGCAC	
105426 I			A	CCCTGTGAGCAGCCACCGGGGACC	
105426 P	A		A	CGCCCCGAGGAGGACCCAGCTGGY	
105426 P	T		A	ATGACGTGCCAGACTGCACCCAGCTGGY	
105426 T	A		A	GAGCCCAGCTGGGTCCTGTCCCCCTGCCTGCTCACAGGCCC	
105426 T	T		A	GAGCCCAGCTGGGTCCAGTCCCCCTGCCTGCTCACAGGCCC	
				GTAGGGGTCAAAGGAGCCCACCTGCAGAGAAGGGGAGGGGCCCTGTGAGCAGCCACCGGGGACA[AT]GCACCCAGCTGCCTCTGCCCTTCCTGGGTCCCAGCCTCCTGCCTC	
105426 IS	[AT]			ACCTTGCGGAGTG	
105427 I			A	TCGTCCTCGCCCTGGGCACTGAT	
105427 P	A		A	CGCGCCGAGGAGTTCTCGTTGGGGTCY	
105427 P	G		A	ATGACGTGCCAGACGGTTCTCGTTGGGGTY	
105427 T	A		A	CACGGACCCCAACGAGAACTTCAGTGCCCAGGGCGAGGACGAGT	
105427 T	G		A	CACGGACCCCAACGAGAACCTCAGTGCCCAGGGCGAGGACGAGT	
				CCCAGGCTCCTGGCCTCACCTTGCGGAGTGGGGGCCACTGGTCCTCGCCCTGGGCACTGA[AG]GTTCTCGTTGGGGTCCGTGTGTCGGTGAGGAACACGCGCACAGTGCTGAG	
105427 IS	[AG]			TTTGTAGAGCAG	
105428 I			A	TGTCTGAAGAAACAGGGCTGCCAACTAAAGGAGTTTT	
105428 P	A		A	CGCGCCGAGGAAGACCTGCTGCTCAY	
105428 P	G		A	ATGACGTGCCAGACGAAGACCTGCTGCTCAY	
105428 T	A		A	GTACTGAGCAGCAGGTCTTAAACTCTTTAGTTGGCAGCCCTGTTTCTTCAGACAAA	
105428 T	G		A	GTACTGAGCAGCAGGTCTCAAACTCTTTAGTTGGCAGCCCTGTTTCTTCAGACAAA	
				TTTGAACATCACCCAGAGTGATTTTGTCTGAAGAAACAGGGCTGCCAACTAAAGGAGTTT[AG]AGACCTGCTGCTCAGTACCGTCTCTCTGGGAAGGTGCAGAAAGGA	
105428 IS	[AG]			GCAAGAATGAACTT	
105429 I			A	CGGCGTTCCCATCGCCTGCACCA	
105429 P	C		A	ATGACGTGCCAGACCCATGCCTCTGCACAY	
105429 P	T		A	CGCGCCGAGGTCATGCCTCTGCACAY	
105429 T	C		A	ACACTGTGCAGAGGCATGGGGTGCAGGCCATGGGAACGCCGCC	
105429 T	T		A	ACACTGTGCAGAGGCATGAGGTGCAGGCCATGGGAACGCCGCC	
				AAGAGGACAGGGACAGAGGGCAGCAGCTGGACCGAGGCGGCGTTCCCATCGCCTGCACC[CT]CATGCCTCTGCACAGTGTGTATGTGCCACTTGGGGCCCTGGGACAGC	
105429 IS	[CT]			AACATGGCGCCTG	
105430 I			S	GGTCCCAGGACTCTGTCAGGAGCTGTCATTC	
105430 P	A		S	CGCGCCGAGGTCCTCTGCTGGGAAATTCCY	
105430 P	T		S	ATGACGTGCCAGACACTCTGCTGGGAATTCCY	
105430 T	A		S	CCATGGAATTCCCAGCAGAGAAATGACAGCTCCTGACAGAGTCCTGGGACCAA	
105430 T	T		S	CCATGGAATTCCCAGCAGAGAATAATGACAGCTCCTGACAGAGTCCTGGGACCAA	
				GGTGACAGCTAGGAAGCCAAGAGCCTCCCCTGCTATAGCCCCATGGAATTCCCAGCAGAG[AT]AATGACAGCTCCTGACAGAGTCCTGGGACCAAGGGGAGAAGCCATGC	
105430 IS	[AT]			CTAACTTGAGGGG	
105433 I			S	CTGGGTCGTCTGGTGCTGCAGCTT	
105433 P	C		S	ATGACGTGCCAGACGCAGCAGCCATGGY	
105433 P	G		S	CGCGCCGAGGCCAGCAGCCATGGTY	
105433 T	C		S	CGCCACCATGGCTGCTGCAGCTGCAGCACCAGACGACCCAGCA	
105433 T	G		S	CGCCACCATGGCTGCTGGAGCTGCAGCACCAGACGACCCAGCA	
				AACGAAGAAGCACGTGGGGTGGGCTGCAGACCTGTCCCCTTGCGCCACCATGGCTGCTG[CG]AGCTGCAGCACCAGACGACCCAGCAGGAAGCAGGGCTTCGGTACCTT	
105433 IS	[CG]			TCCGGTTCGTCCC	
105434 I			A	AGATCATGGGCCACTTCGAGGGGCTCY	
105434 P	G		A	ATGACGTGCCAGACGCGAAGGGGTACGCY	
105434 P	A		A	CGCGCCGAGAGGAAGGGGTACGCY	
105434 T	G		A	CACAGCGTACCCCTTCCCGAGCCCCTCGAAGTGGCCCATGATCTGT	
105434 T	A		A	CACAGCGTACCCCTTCCTGAGCCCCTCGAAGTGGCCCATGATCTGT	
				CTGGTGGCTCCCTGCATGTCAGGGCTCTTCGACAGATCATGGGCCACTTCGAGGGGCTC[GA]GGAAGGGGTACGCTGTGTCCGTCGACCACCAGGATGCCCACCACCGG	
105434 IS	[GA]			CGCCCGGTGCATC	LLGL2
105439 I			A	GCATCTGCACCAAATTTTACATCTTTGGCATAAGCCCGT	
105439 P	A		A	CGCGCCGAGGAGTCAGATGAGGAGCCY	
105439 P	G		A	ATGACGTGCCAGACGCTGAGATGAGGAGCTY	
105439 T	A		A	TACTGGCTCCTCATCTCACTCGGGCTTATGCCAAAGATGTAAAATTTGGTGCAGATGCCC	
105439 T	G		A	TACTGGCTCCTCATCTCACCCGGGCTTATGCCAAAGATGTAAAATTTGGTGCAGATGCCC	
				ACCTTGAAGCATTAAGGCTCGGGCATCTGCACCAAATTTTACATCTTTGGCATAAGCCC[AG]GTCAGATGAGGAGCCAGTACCTGCACACCGGTCTCATCTGCGCAAA	
105439 IS	[AG]			GACTGTGGGTAAC	HSPD1
105440 I			S	ACACATGTATATTCAAACTTTTAGGATGCATTGTAAATGTGAAATAAAAGAT	
105440 P	T		S	CGCGCCGAGGAATTGTGTTGTTACGAAACAATY	
105440 P	C		S	ATGACGTGCCAGACGATTGTGTTGTTACGAAACAAT	
105440 T	T		S	AGATATTGTTTCGTAACAACACAATTTCTTTTATTTCACATTTACAATGGCATCCTAAAAGTTTGAATATACATGTGTCT	
105440 T	C		S	AGATATTGTTTCGTAACAACACAATCTCTTTTATTTCACATTTACAATGGCATCCTAAAAGTTTGAATATACATGTGTCT	
				AAAATCAAAATTAGAATATTGCATAGAAAAGGTGAGATATTGTTTCGTAACAACACAAT[TC]TCTTTTATTTCACATTTACAATGGCATCCTAAAAGTTTGAATATAC	
105440 IS	[TC]			ATGTGTCTTTAAAA	
105441 I			S	GCCTCTTTCTCCTCCCACCAAAGCTGTGATT	
105441 P	C		S	ATGACGTGCCAGACGCTGTAGTAGTGGGTGTCTY	
105441 P	T		S	CGCGCCGAGGATGTAGTAGTGGGTGTCTTY	
105441 T	C		S	CGCAAGACACCCACTACTACATATCACAGCTTTGGTGGGAGGAGAAAGAGGCAA	
105441 T	T		S	CGCAAGACACCCACTACTACATATCACAGCTTTGGTGGGAGGAGAAAGAGGCAA	
				GTTATTTTGCTGCTTTTCAAACCCCACTACTACCCCACGCAAAGACACCCACTACTACAG[CT]ATCACAGCTTTGGTGGGAGGAGAAAGAGGCAAGATTCAAAGTTGTAT	
105441 IS	[CT]			TCCAATGAGTTCA	
105447 I			S	AGATGGTCTATCTGATGCTGAAAATGTCTCTAGTTTTTTGACT	
105447 P	T		S	CGCGCCGAGGAACGGCTAAATAACCATGGY	
105447 P	C		S	ATGACGTGCCAGACACGGCTAAATAACCATGGY	
105447 T	T		S	GATCCCATGGTTATTTAGCCGTTGTCAAAAACTAGAGACATTTTCAGCATCAGATAGACCATCTCC	
105447 T	C		S	GATCCCATGGTTATTTAGCCGTTGTCAAAAACTAGAGACATTTTCAGCATCAGATAGACCATCTCC	
				GCAGTTCATCTAATGTTGCTGCTTTCCCAAGCCACTTGATCCCATGGTTATTTAGCCGT[TC]GTCAAAAACTAGAGACATTTTCAGCATCAGATAGACCATCTCCATA	
105447 IS	[TC]			ATCATGCAGTCA	KIAA0846
105458 I			A	GCTTGCTGTATAATCCCAGGCAACTGAAAAGCAGTCT	
105458 P	A		A	CGCGCCGAGGAAGTGAATACAATTTGATCTAAGAGY	
105458 P	G		A	ATGACGTGCCAGACGAGTGAATACAATTTGATCTAAGAGY	
105458 T	A		A	AGCACTCTTAGATCAAATTGTATTCACTTGACTGCTTTTCAGTTGCCTGGGATTATACAGCAAGCAG	
105458 T	G		A	AGCACTCTTAGATCAAATTGTATTCACTCGACTGCTTTTCAGTTGCCTGGGATTATACAGCAAGCAG	
				ATTCAAACCTCAACCCTGCTGTCTGCTTGCTGTATAATCCCAGGCAACTGAAAAGCAGTC[AG]AGTGAATACAATTTGATCTAAGAGTGCTTCTATTTTCCCATATTTTG	
105458 IS	[AG]			TTGTAACTAAAAT	
105459 I			S	GTGCTAAATGCATTCAAGTGCCATTCTATTCTGGGGTCT	
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105459 T	C		S	CAGGTCTTGCACAGTATAGTGCCACCCCAGAATAGAATGGCACTTGAATGCATTTAGCACAA	
105459 T	T		S	CAGGTCTTGCACAGTATAGTGGTGACCCCAGAATAGAATGGCACTTGAATGCATTTAGCACAA	
				AACCCATTATTCCTCGTGCGTTTCCTAAACTTTTTTTCCAGGTCTTGCACAGTATACTGG[CT]GACCCCAGAATAGAATGGCACTTGAATGCATTTAGCACAAAAGATCA	
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FIGURE 129C



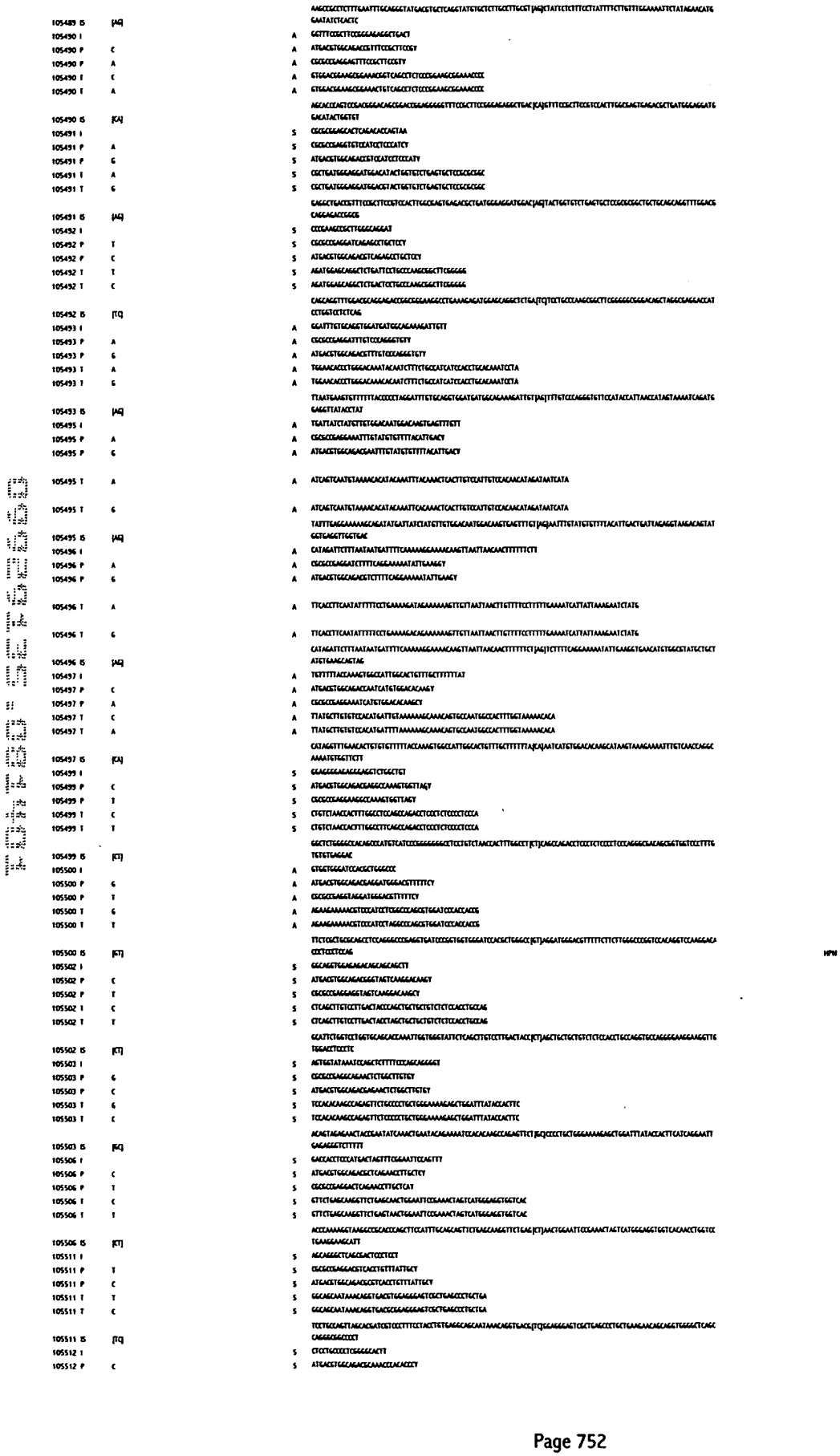
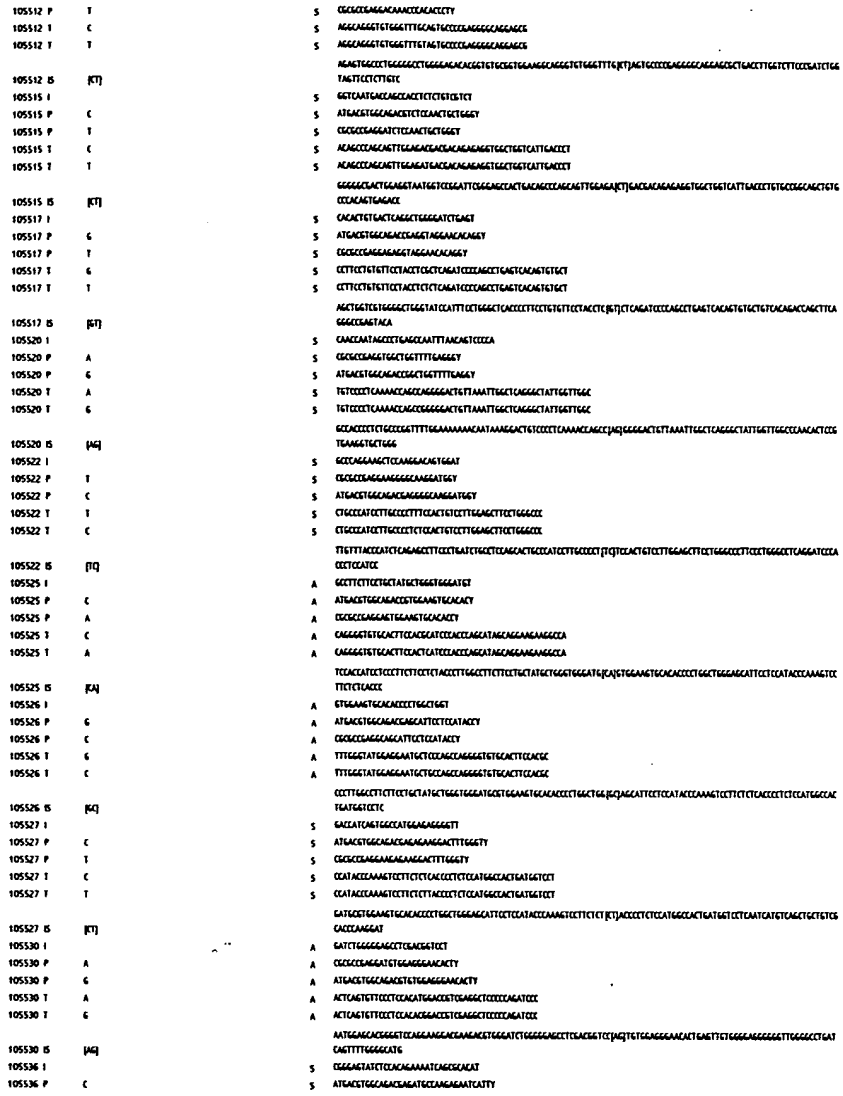
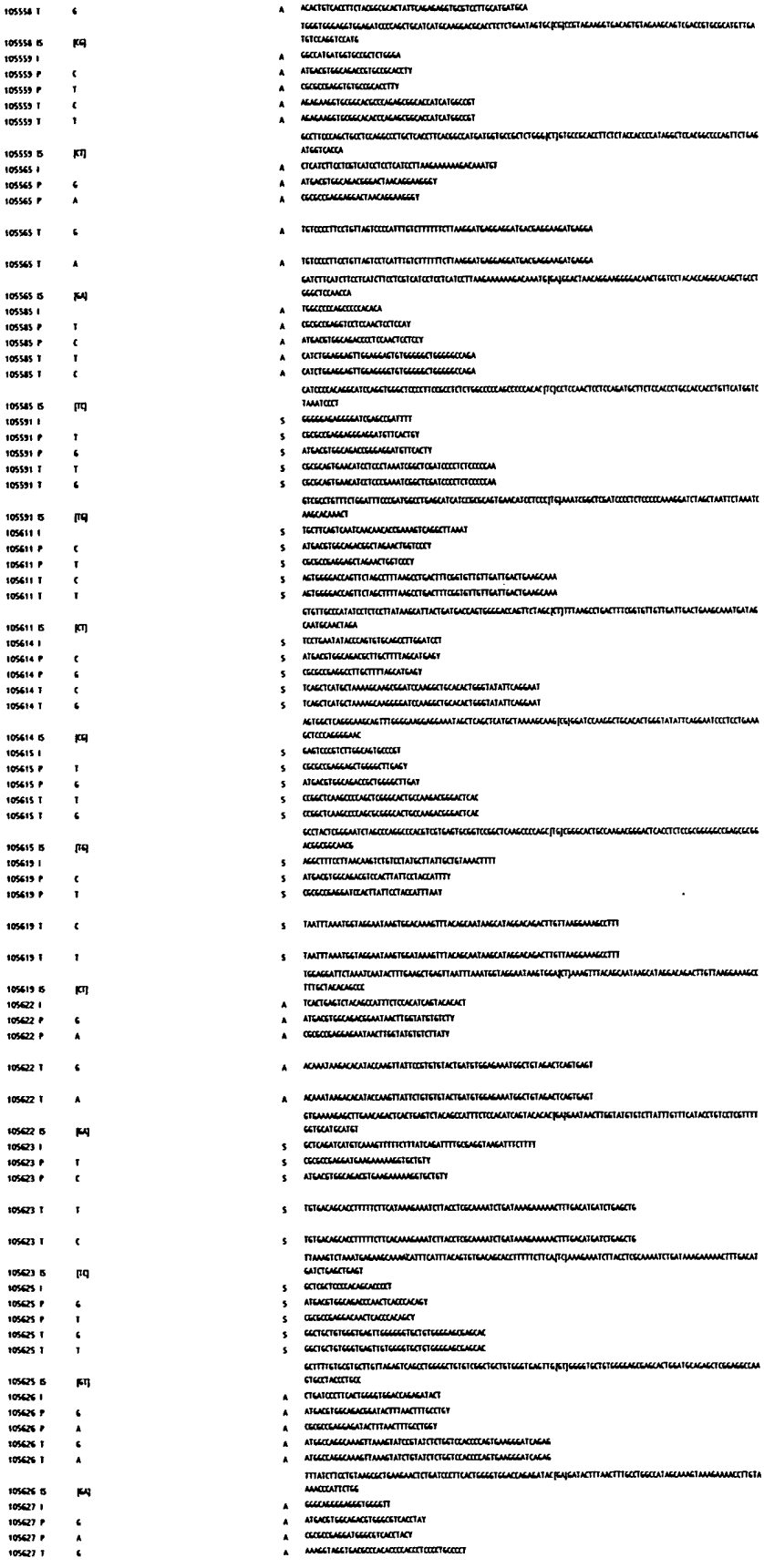
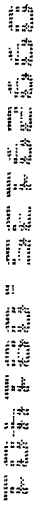
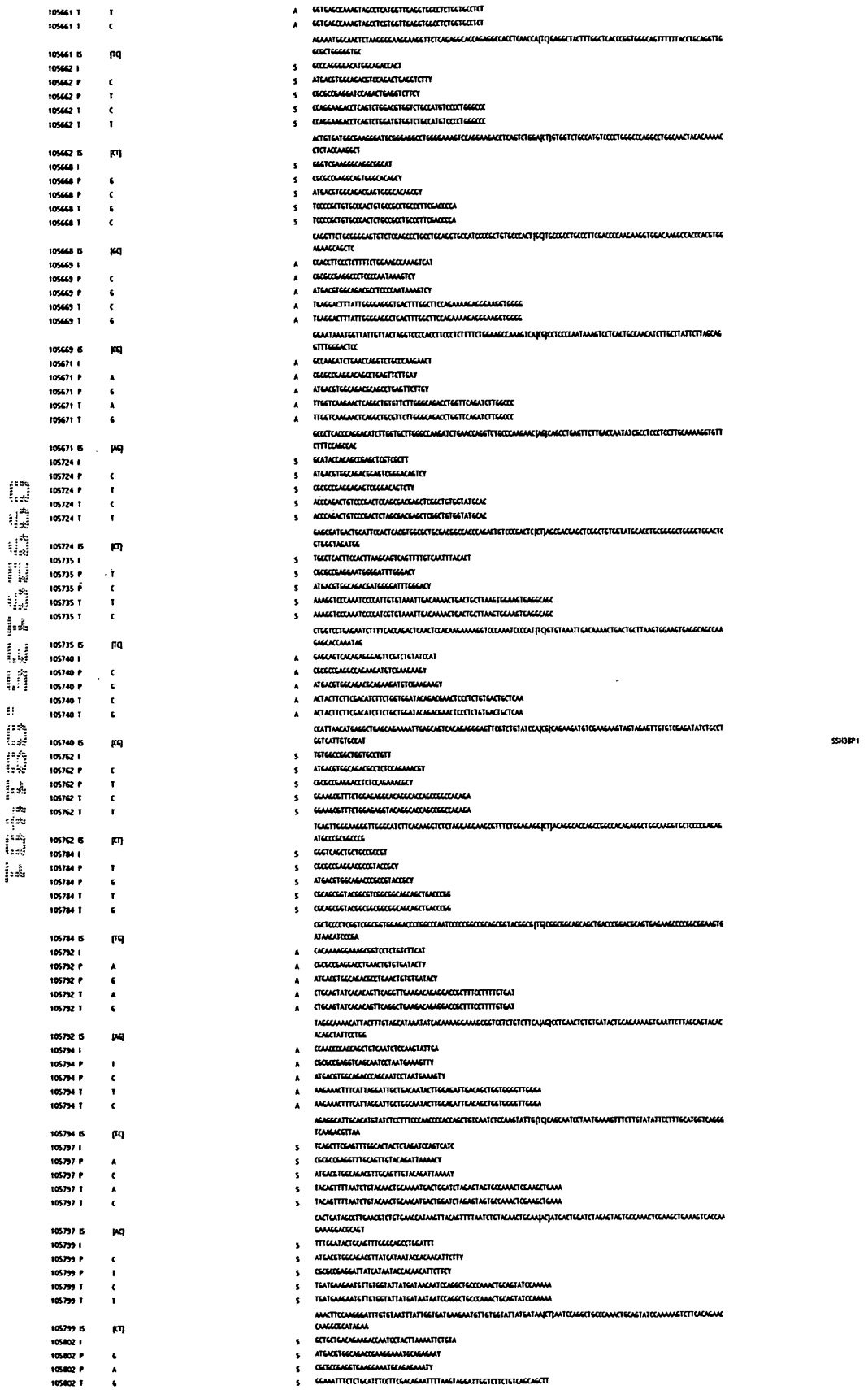


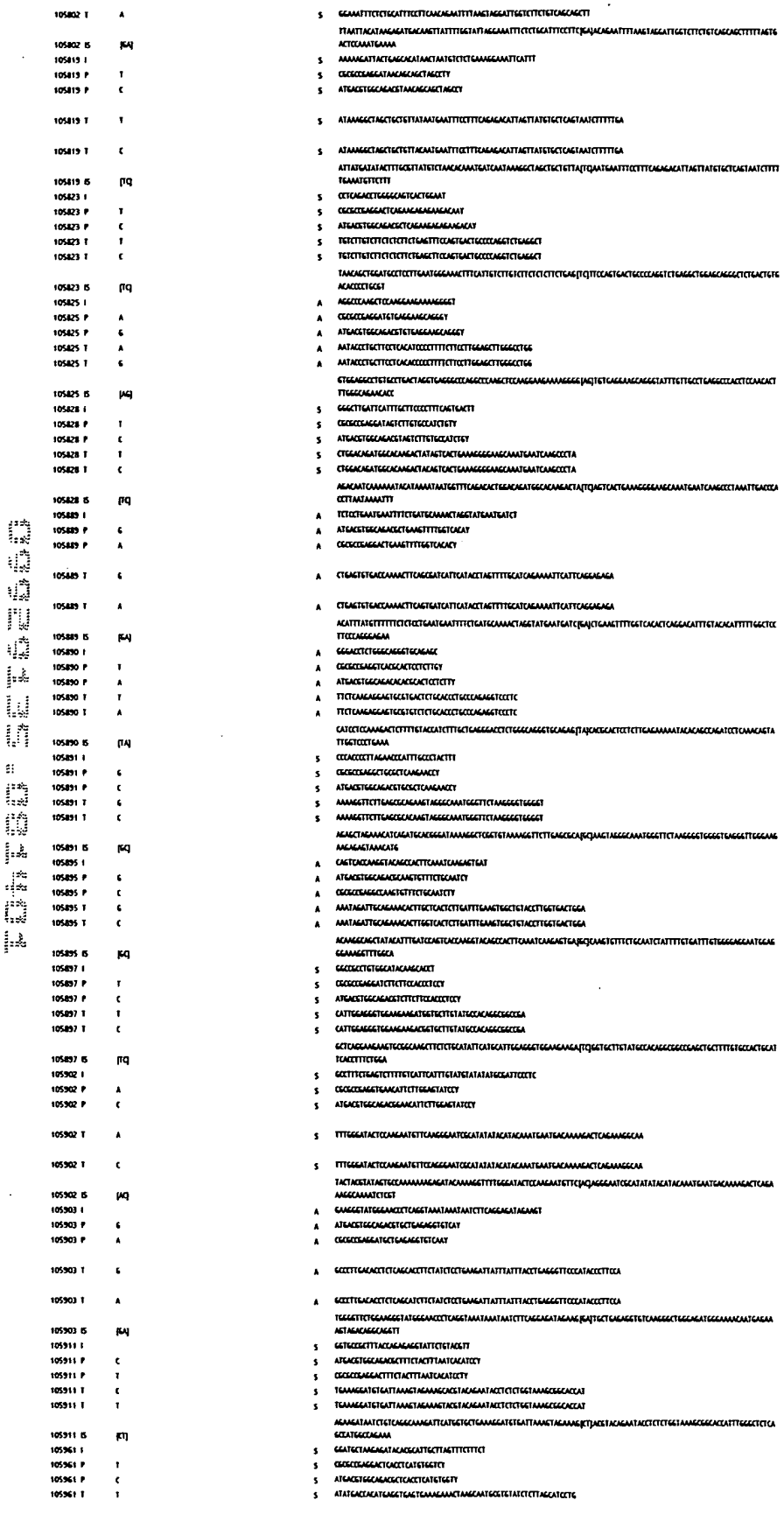
FIGURE 129C











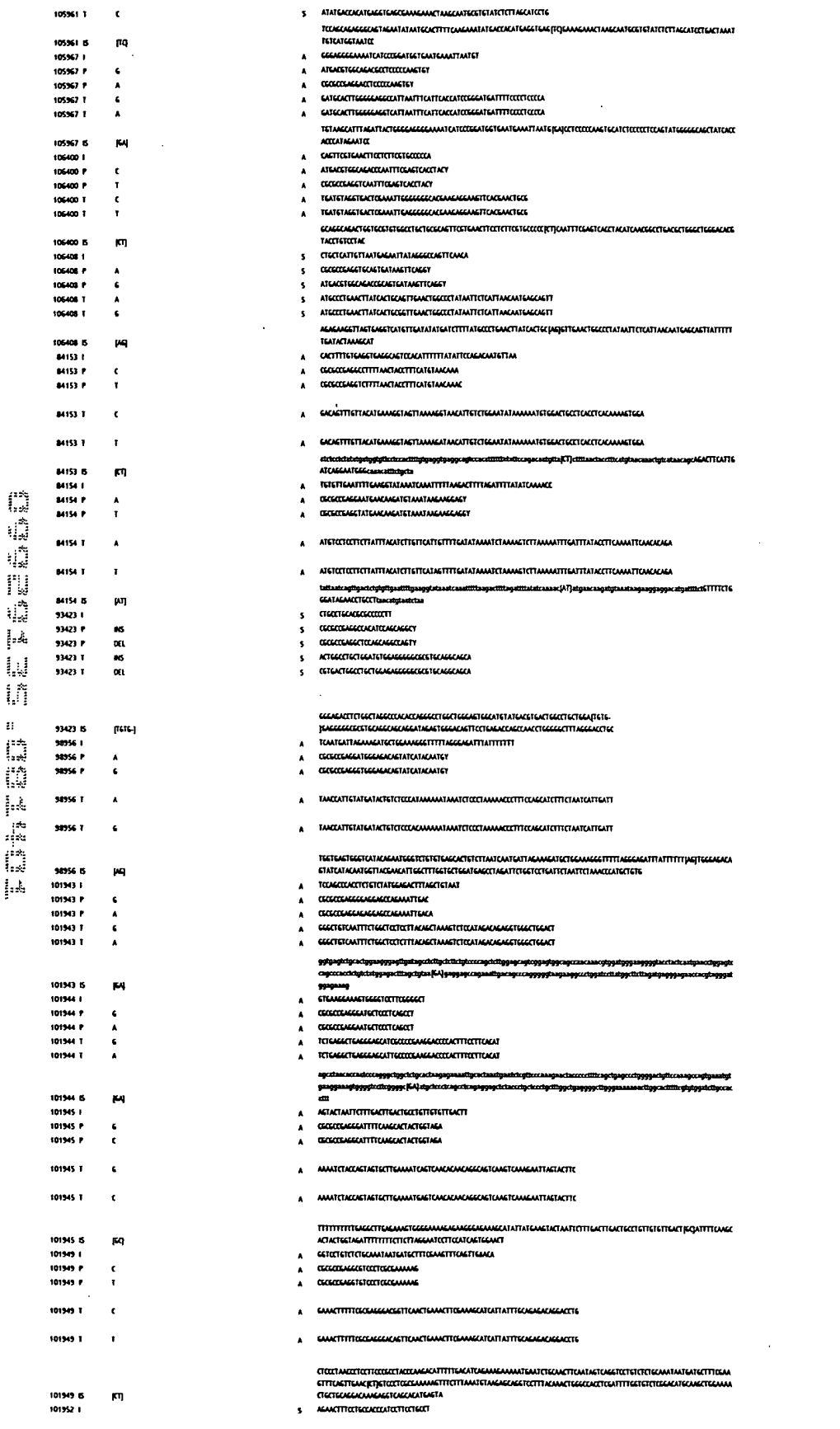
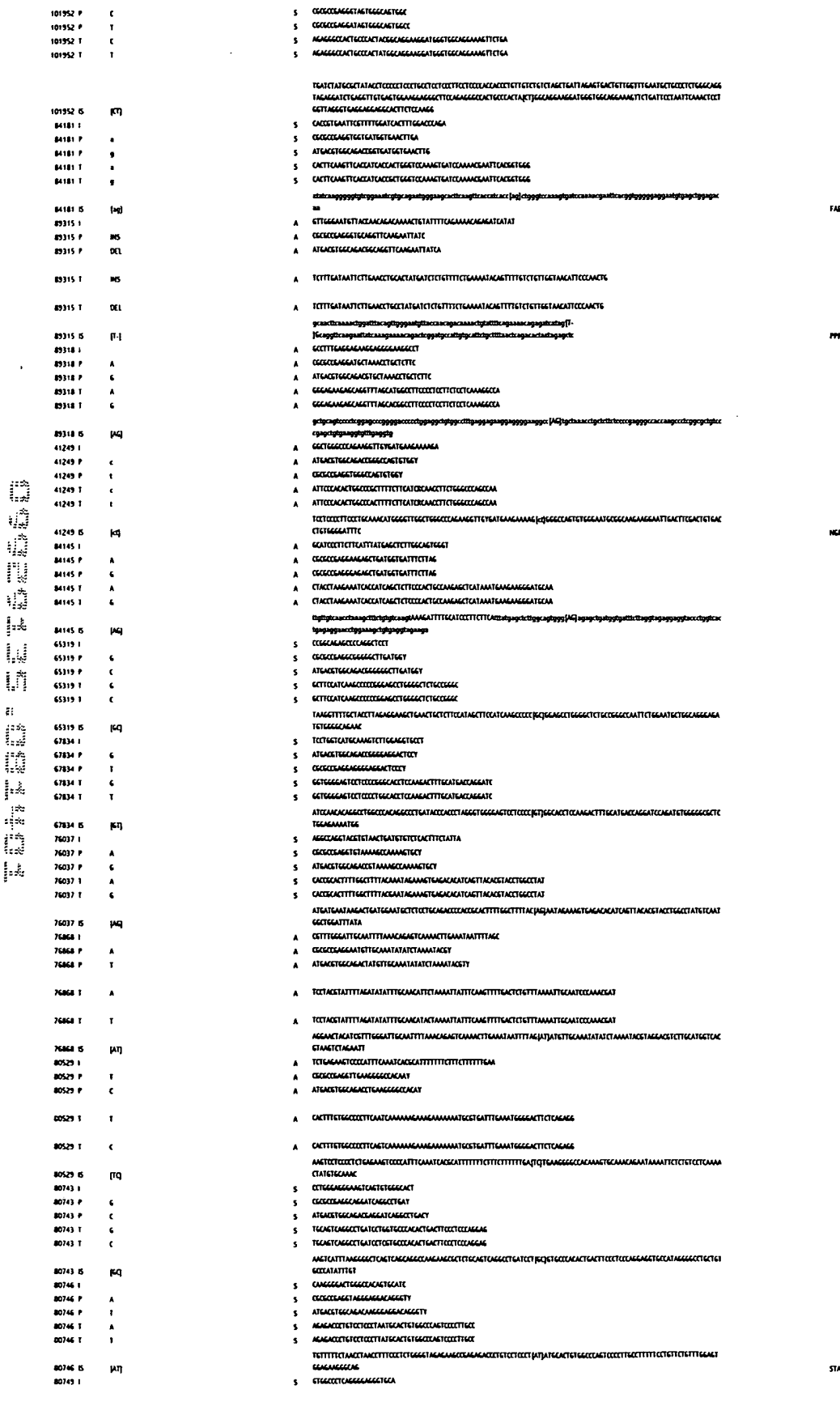


FIGURE 129C



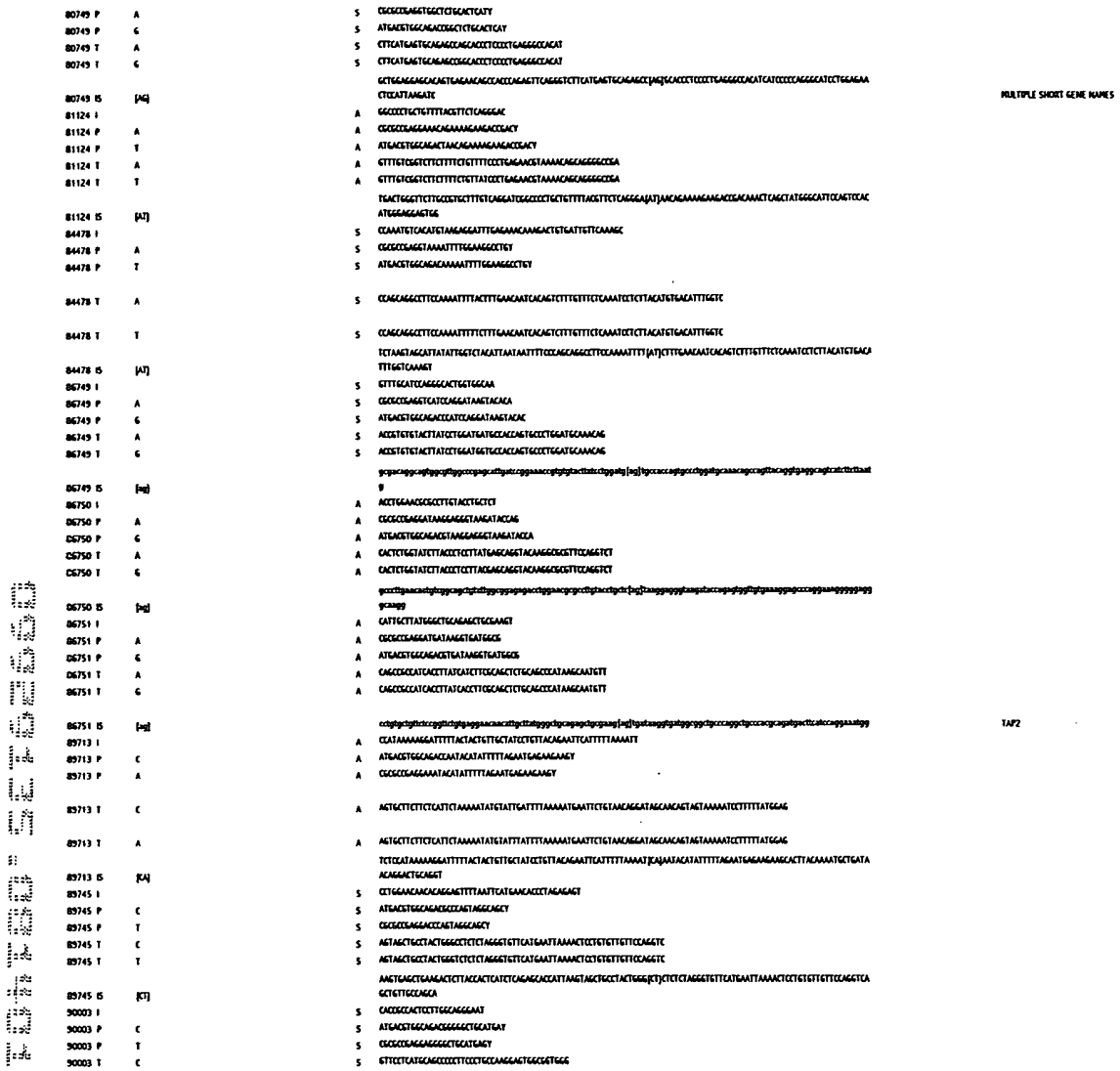
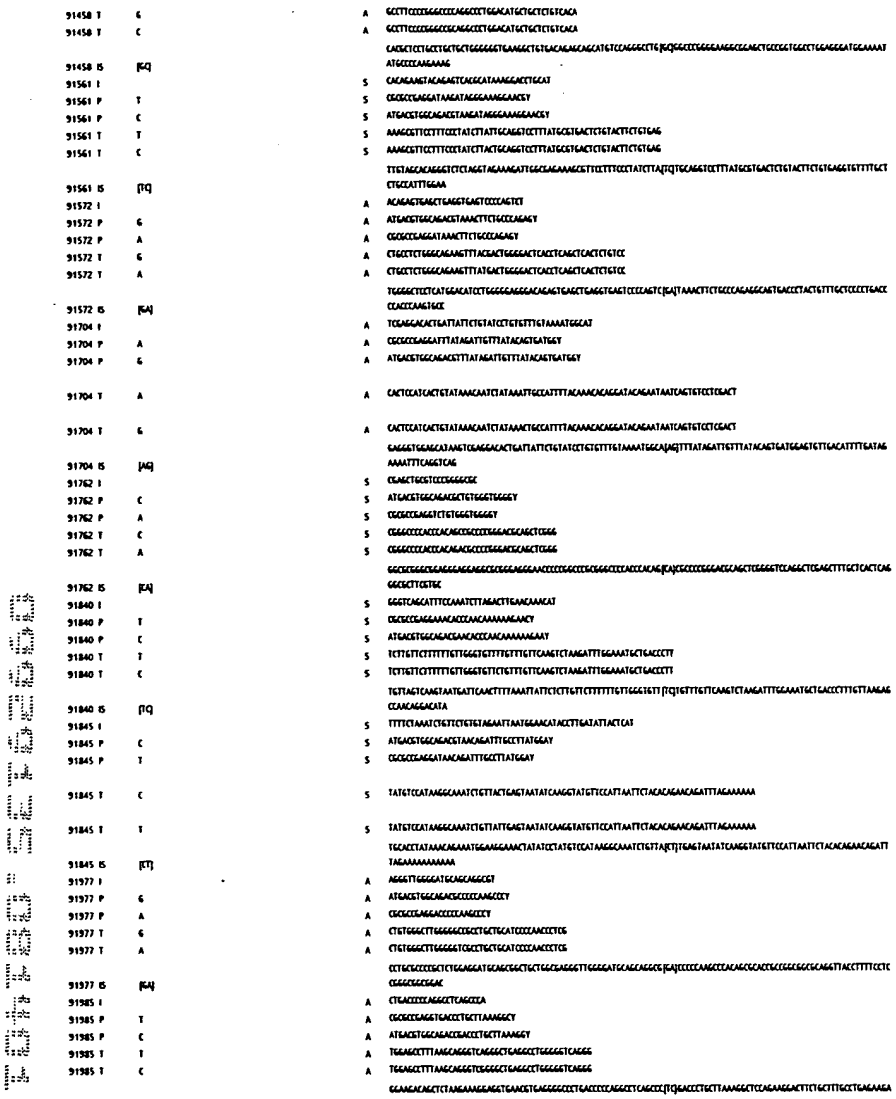
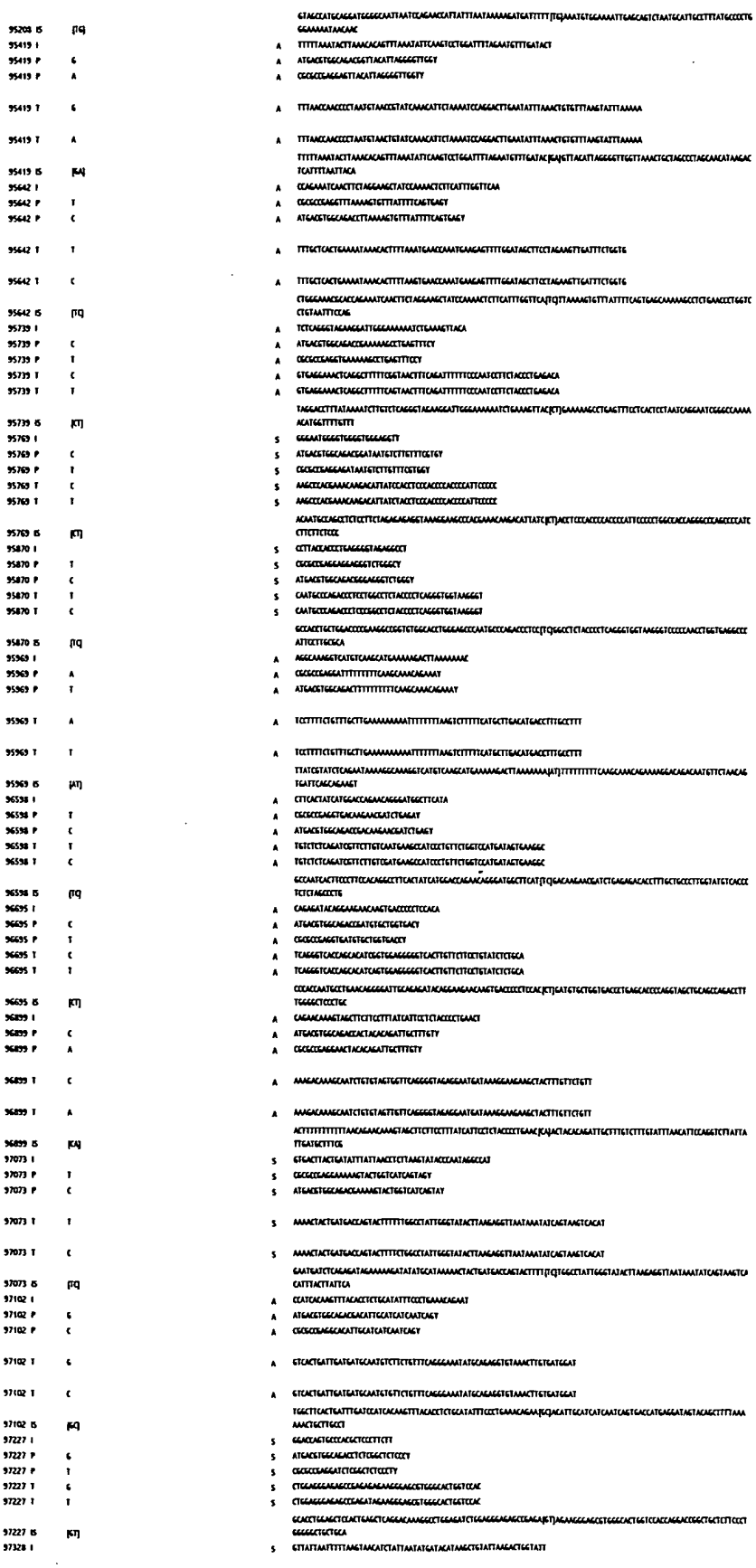

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86749 P G S
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90003 P C S
90003 P T S
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90003 T T S
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FIGURE 129C

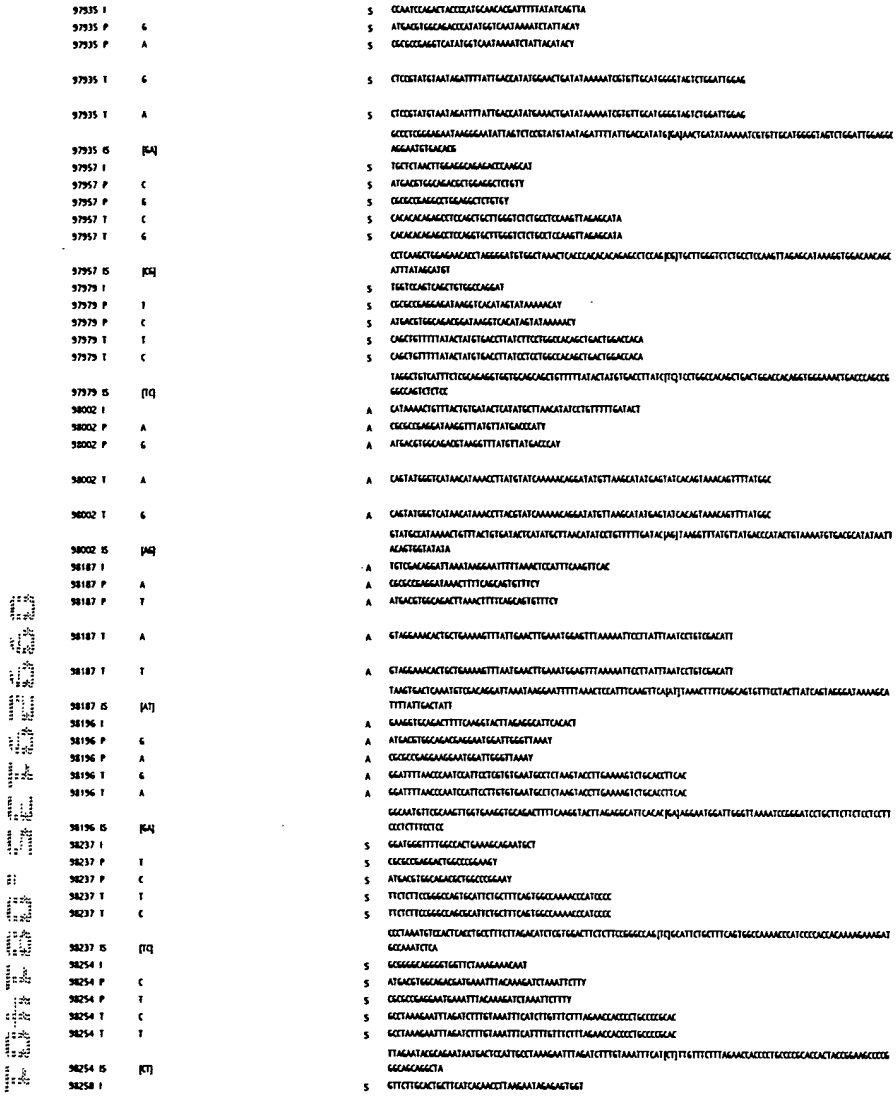








Sequence Listing



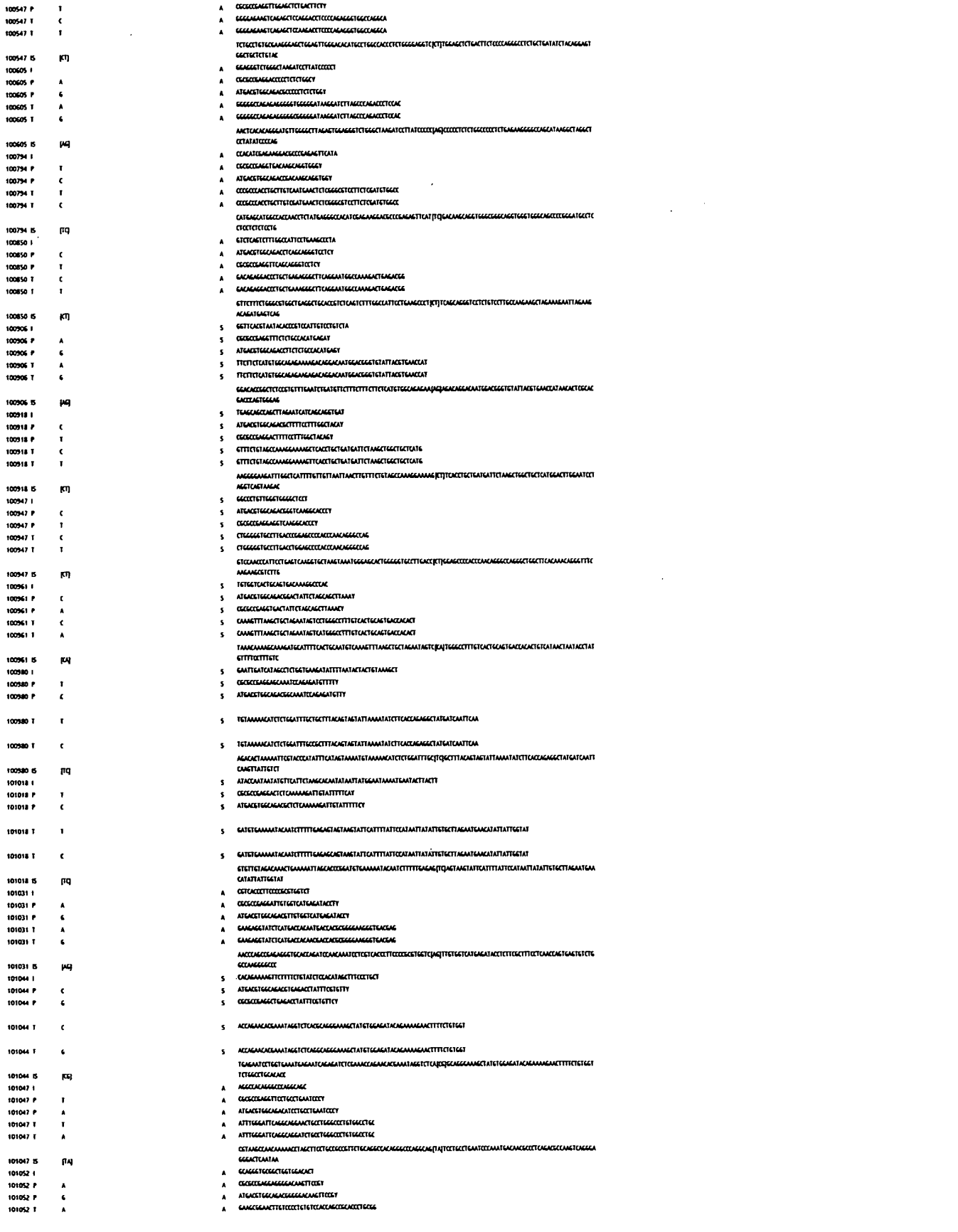


Sequence Listing Page 766

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98393 T  G   S  CTCACAGTTAATTATCGATTTGTGTCAGTTGCCCATTTTCTCACTTCCTGTTTGTGTGTCAAGGAG
98393 IS [CG]   TAGAGGATTAGGAGAGACTCCACCACCTATGTCGTCACAGTTAATTATCGATTTGTGTCA[CG]TTGCCCATTTTCTCACTTCCTGTTTGTGTGTCAAGGAGTATTAATAA
                ATCTTTGCCTATT
98474 I          S  GGCAGCATCCCTGCATGCCGTCCT
98474 P  T       S  CGCGCCGAGGATATACAACCCCTCTTTGAAAAY
98474 P  C       S  ATGACGTGGCAGACGTATACAACCCCTCTTTGAAAY
98474 T  T       S  TCTTTTTTCAAAGAGGGTTGTATATGGACGGCATGCAGGGATGCTGCCTT
98474 T  C       S  TCTTTTTTCAAAGAGGGTTGTATACGGACGGCATGCAGGGATGCTGCCTT
98474 IS [TC]   CAATGTAGGGCTTTCGTAGGAGTTTATTCTCTGTGTCTTTTTTCAAAGAGGGTTGTATA[T/C]GGACGGCATGCAGGGATGCTGCCTCTCTGCTGATGTCGGGAAGGGGG
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98487 I          S  GACAGCTACTTCATCCAGAAAGGAAAATGACAGTCCATTTAACCTAC
98487 P  A       S  CGCGCCGAGGTGCCAAGGTATACTAGTCAY
98487 P  T       S  ATGACGTGGCAGACAGCCAAGGTATACTAGTCAY
98487 T  A       S  AGAGTGACTAGTATACCTTGGCATAGGTTAAATGGACTGTCATTTTCCTTTCTGGATGAAGTAGCTGTCAT
98487 T  T       S  AGAGTGACTAGTATACCTTGGCTTAGGTTAAATGGACTGTCATTTTCCTTTCTGGATGAAGTAGCTGTCAT
98487 IS [AT]   TATGTGTAAGCTGTCAGTAAGATTTGATATTTGCCTGTAGAGTGACTAGTATACCTTGGC[A/T]AGGTTAAATGGACTGTCATTTTCCTTTCTGGATGAAGTAGCTGTC
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98492 P  C       S  ATGACGTGGCAGACGTTCCCGATATCCACTCAY
98492 P  T       S  CGCGCCGAGGATTCCCGATATCCACTCAY
98492 T  C       S  GAGGTGAGTGGATATCGGGAATGAGCTGCTTCCAAATGGGATCAGGACAGTTACAGCC
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98514 T  G       A  ATCCGCAGAGAGGTGAGTGTCACTCAGATAAACTCACTACTGTTAACTTTCAATTGTCAGGCATGAGGGG
98514 IS [AG]   ATGTATTATTTCCCCTCATGCCTGACAATTGAAAGTTAACAGTAGTGAGTTTATCTGAGT[A/G]ACACTCACCTCTCTGCGGATAGAAGCCCAAAGGCTGGGGAGGAAGTC
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98519 P  G       A  ATGACGTGGCAGACGTCCAGCGTACCCAY
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98519 T  A       A  GTCTGTGGGTACGCTGGATTTGCGGTCCGTCTCCTGGCGCGG
98519 IS [GA]   CCACGCCAGACCCCCCCCATCCCCGACTGCCTGAACCGCGCCAGGAGACGCGACCGCAA[G/A]TCCAGCGTACCCACAGACGACTCAGGCCGGGAGACGAGCGGTGTCATGG
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98520 I          S  ACTCTCACCCTGGTTGGGAGTATGGGACT
98520 P  T       S  CGCGCCGAGGAACTTCCCTAGGGCCY
98520 P  C       S  ATGACGTGGCAGACGACTTCCCTAGGGCCY
98520 T  T       S  CCTAGGCCCTAGGGAAGTTGTCCCCATACTCCCAACCAGGGGTGAGAGTTT
98520 T  C       S  CCTAGGCCCTAGGGAAGTCGTCCCCATACTCCCAACCAGGGGTGAGAGTTT
98520 IS [TC]   CCTTCCCAGTCTTCAGCCCACAGCAACCAGGGTGCTCTAAGTCCTAGGCCCTAGGGAAGT[T/C]GTCCCATACTCCCAACCAGGGGTGAGAGTTTACCTGGACCCTCAGAGA
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98547 P  G       A  ATGACGTGGCAGACGCTGTGTGTCCTAAGGY
98547 P  T       A  CGCGCCGAGGTCTGTGTGTCCTAAGGGY
98547 T  G       A  CCCTCCCTTAGGAACACACAGCTTCGCAGTGCCAGTGAACCCACTCCTTT
98547 T  T       A  CCCTCCCTTAGGAACACACAGATTCGCAGTGCCAGTGAACCCACTCCTTT
98547 IS [GT]   CATCTGGGCTTATCATTCCACAGGAAGCAGCCAAAGGAGTCGGGTTCACTGGCACTGCGAA[G/T]CTGTGTGTCCTAAGGGAGGGCCATGATGCATCACTAAGGTACCCAT
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98652 I          A  AGAAGGGTGAGCCCCCACCCAGACA
98652 P  C       A  ATGACGTGGCAGACCGACACTGGGGCT
98652 P  T       A  CGCGCCGAGGTGACCACTGGGGCY
98652 T  C       A  GAGTGCCCCAGTGGTCGGTCTGGGTGGGGGCTCACCCTTCTTG
98652 T  T       A  GAGTGCCCCAGTGGTCAGTCTGGGTGGGGGCTCACCCTTCTTG
98652 IS [CT]   GACTCCGCAACCTGGACCCCATGCCCTCTGAGGCCAAGAAGGGTGAGCCCCCACCCAGAC[C/T]GACCACTGGGGCACTCATTTAGCAGGCAGATGTTTGTTGAAGACTAG
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98681 I          S  GTAGGAATTTACTTCCCCCAACTGCTGAACTACTCCAGT
98681 P  C       S  ATGACGTGGCAGACGTTTGCTCCAGAATAGGTTY
98681 P  T       S  CGCGCCGAGGATTTGCTCCAGAATAGGTTGY
98681 T  C       S  AGGGCAACCTATTCTGGAGCAAACCTGGAGTAGTTCAGCAGTTGGGGGAAGTAAATTCCTACCT
98681 T  T       S  AGGGCAACCTATTCTGGAGCAAATCTGGAGTAGTTCAGCAGTTGGGGGAAGTAAATTCCTACCT
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98738 P  G       A  ATGACGTGGCAGACGATGAGGAAGGAAAATGGAGY
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98740 T  A       A  ATATTGATTTATAATGTCTCTTTTATCAGATATATTAACCTTTTCGTAAGACATATTTGTAAATTGATTTCCAGCTCATTTGCC
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FIGURE 129C



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FIGURE 129C

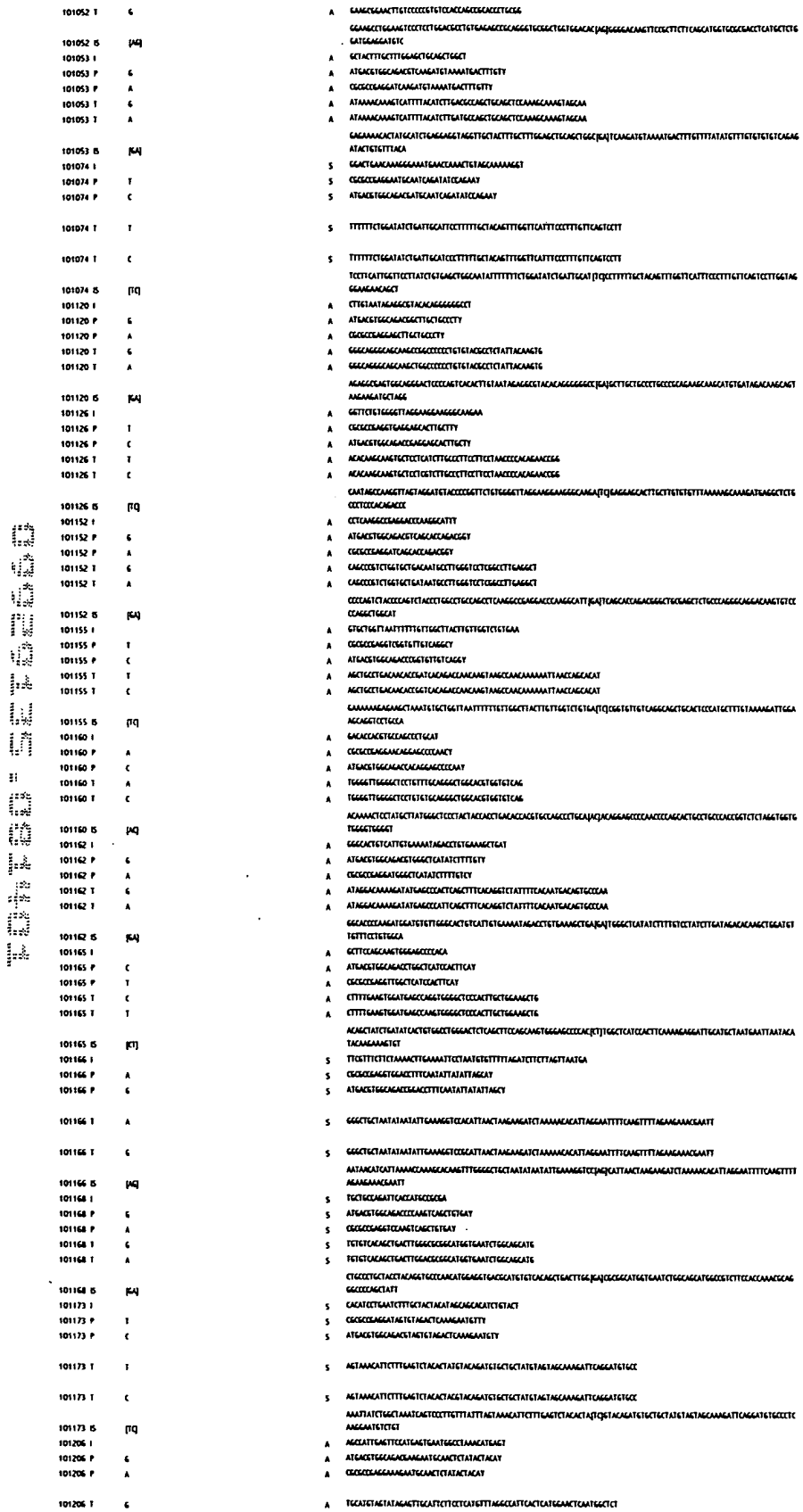
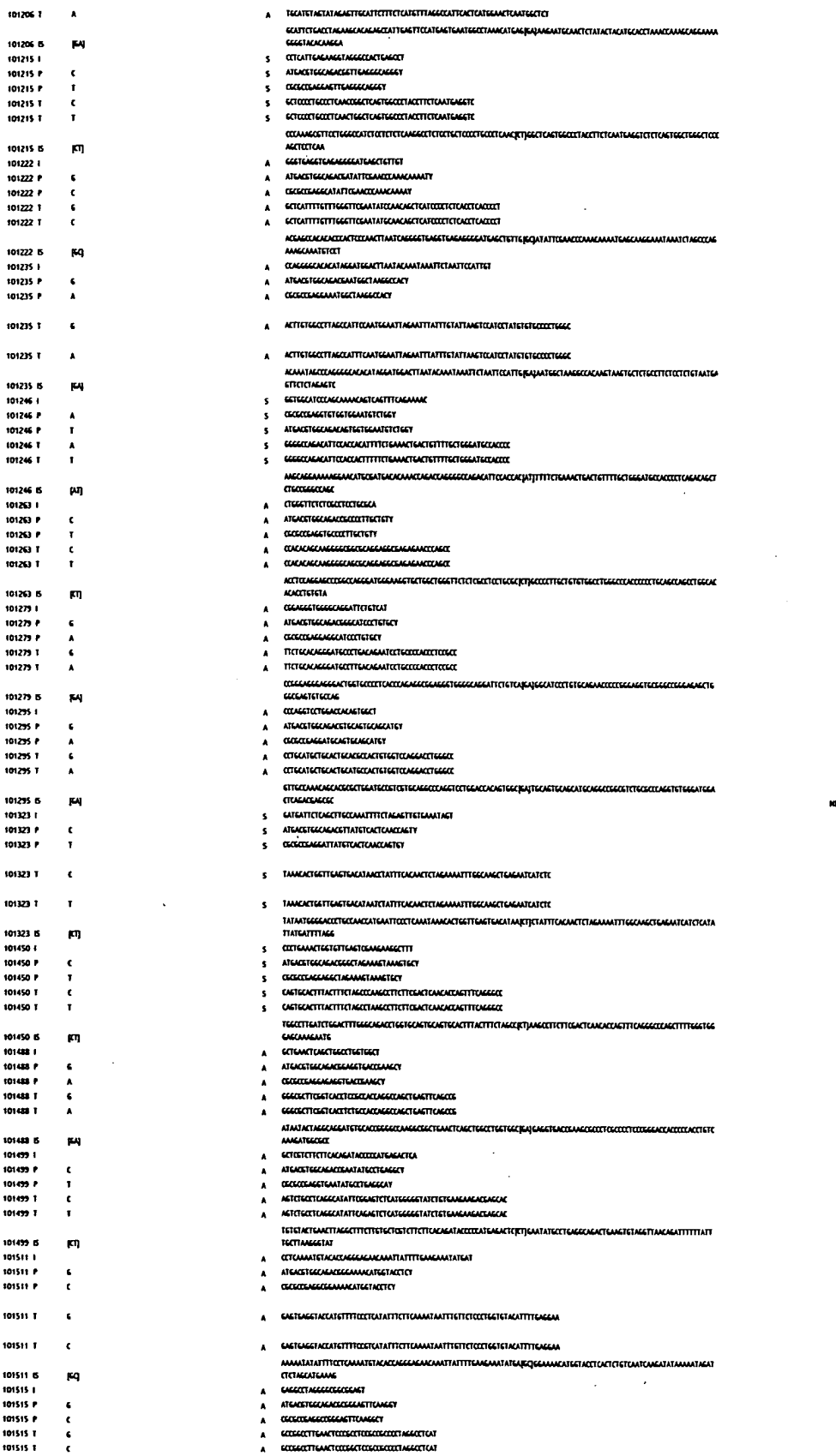
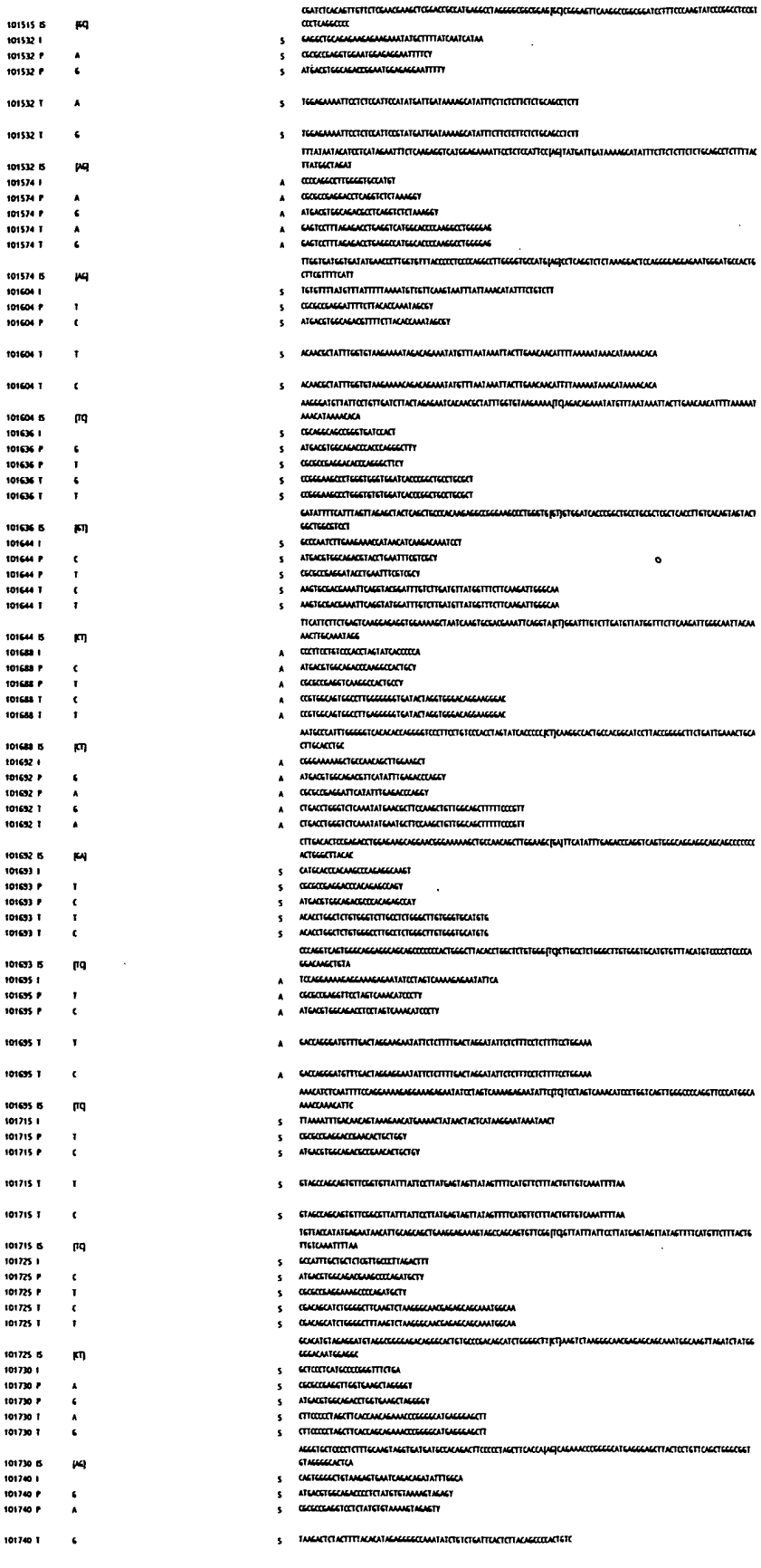

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101053 P G A ATGACGTGGCAGACGTCAAGATGTAAAATGACTTTGTY
101053 P A A CGCGCCGAGGATCAAGATGTAAAATGACTTTGTY
101053 T G A ATAAAACAAAGTCATTTTACATCTTGAGCCAGCTGCAGCTCCAAAGCAAAGTAGCAA
101053 T A A ATAAAACAAAGTCATTTTACATCTTGATGCCAGCTGCAGCTCCAAAGCAAAGTAGCAA
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101074 P C S ATGACGTGGCAGACSATGCAATCAGATATCCAGAAT
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101120 P G A ATGACGTGGCAGACGGCTTGCTGCCCTY
101120 P A A CGCGCCGAGGAGCTTGCTGCCCTY
101120 T G A GGGCAGGGCAGCAAGCCGCCCCCCTGTGTACGCCTCTATTACAAGTG
101120 T A A GGGCAGGGCAGCAAGCTGGCCCCCCTGTGTACGCCTCTATTACAAGTG
101120 IS [GA] ACAGCCGAGTGGCAGGGACTCCCCAGTCACACTTGTAATAGAGCCGTACACAGGGGGGCC[GA]GCTTGCTGCCCTGCCCCGCAGAAGCAAGCATGTGATAGACAAGCAGT AAGAAGATGCTAGG
101126 I A GGTTCTGTGGGGTTAGGAAGGAAGGGCAAGAA
101126 P T A CGCGCCGAGGTGAGGAGCACTTGCTTY
101126 P C A ATGACGTGGCAGACCGAGGAGCACTTGCTY
101126 T T A ACACAAGCAAGTGCTCCTCATCTTGCCCTTCCTTCCTCACCCCACAGAACCGG
101126 T C A ACACAAGCAAGTGCTCCTCGTCTTGCCCTTCCTTCCTCACCCCACAGAACCGG
101126 IS [TC] CAATAGCCAAGGTTAGTAGGATGTACCCCGGTTCTGTGGGGTTAGGAAGGAAGGGCAAGA[TC]AGGAGCACTTGCTGTGTGTTTAAAAAGCAAAGATGAGGCTCTG CCCTCCCACAGACCC
101152 I A CCTCAAGCCCGAGGAACCCAAGGCATTT
101152 P G A ATGACGTGGCAGACGTCAGCACCAGACGGY
101152 P A A CGCGCCGAGGATCAGCACCAGACGGY
101152 T G A CAGCCCGTCTGGTGCTGACAATGCCTTGGGTCCTCGGCCTTGAGGCT
101152 T A A CAGCCCGTCTGGTGCTGATAATGCCTTGGGTCCTCGGCCTTGAGGCT
101152 IS [GA] CCCCAGTCTACCCCAGTCTACCCTGGCCTGCCAGCCTCAAGGCCCAGGACCCCAAGGCATT[GA]TCAGCACCAGACGGGCTGCGAGCTCTGCCCAGGGCAGGACAAGTGTCC CCAGGCTGGCAT
101155 I A GTGCTGGTAATTTTTTGTTGGCTTACTTGTTGCTCTGTGAA
101155 P T A CGCGCCGAGGTCGGTGTTGTCAGGCY
101155 P C A ATGACGTGGCAGACCGGTGTTGTCAGGY
101155 T T A AGCTGCCTGACAACACCGATCACAGACCAACAAGTAAGCCAACAAAAATTAACCAGCACAT
101155 T C A AGCTGCCTGACAACACCGGTCACAGACCAACAAGTAAGCCAACAAAAATTAACCAGCACAT
101155 IS [TC] GAAAAAACAGAAGCTAAATGTGCTGGTTAATTTTTTGTTGGCTTACTTGTTGGTCTGTGA[TC]CGGTGTTGTCAGGCAGCTGCACTCCCATGCTTTGTAAAAGATTGGA AGCAGGTCCTGCCA HSGT1
101160 I A GACACCACGTGCCAGCCCTGCAT
101160 P A A CGCGCCGAGGAACAGCAGCCCCAACY
101160 P C A ATGACGTGGCAGACCACACAGGAGCCCCAAT
101160 T A A TGGGGTTGGGGCTCCTGTTTGCAGGGCTGGCACGTGGTGTCAG
101160 T C A TGGGGTTGGGGCTCCTGTGTGCAGGGCTGGCACGTGGTGTCAG
101160 IS [AC] ACAAAACTCCTATGCTTATGGGCTCCCTACTACCACCTGACACCACGTGCCAGCCCTGCA[AC]ACAGGAGCCCCAACCCCAGCACTGCCTGCCCACCCGTCTCTAGGTGGTG TGGGGTGGGGT
101162 I A GGGCACTGTCATTGTGAAAATAGACCTGTGAAAGCTGAT
101162 P G A ATGACGTGGCAGACGTGGGCTCATATCTTTGTY
101162 P A A CGCGCCGAGGATGGGCTCATATCTTTGTCY
101162 T G A ATAGGACAAAAGATATGAGCCCACTCAGCTTTCACAGGTCTATTTTCACAATGACAGTGCCCAA
101162 T A A ATAGGACAAAAGATATGAGCCCATTCAGCTTTCACAGGTCTATTTTCACAATGACAGTGCCCAA
101162 IS [GA] GGCACCCCAAGATGGATGTGTTGGGCACTGTCATTGTGAAAATAGACCTGTGAAAGCTGA[GA]TGGGCTCATATCTTTTGTCCTATCTTGATAGACACAAGCTGGATGT TGTTTCCTGTGCA
101165 I A GCTTCCAGCAAGTGGGAGCCCCACA
101165 P C A ATGACGTGGCAGACCTGGCTCATCCACTTCAY
101165 P T A CGCGCCGAGGTTGGCTCATCCACTTCAY
101165 T C A CTTTTGAAGTGGATGAGCCAGGTGGGGCTCCCACTTGCTGGAAGCTG
101165 T T A CTTTTGAAGTGGATGAGCCAAGTGGGGCTCCCACTTGCTGGAAGCTG
101165 IS [CT] ACAGCTATCTGATATCACTGTGGCCTGGGACTCTCAGCTTCCAGCAAGTGGGAGCCCCAC[CT]TGGCTCATCCACTTCAAAAGAGGATTGCATGCTAATGAATTAATACA TACAAGAAAGTGT
101166 I S TTCGTTTCTTCTAAAACTTGAAAATTCCTAATGTGTTTTTAGATCTTCTTAGTTAATGA
101166 P A S CGCGCCGAGGTGGACCTTTCAATATTATATTAGCAT
101166 P G S ATGACGTGGCAGACGGGACCTTTCAATATTATATTAGCT
101166 T A S GGGCTGCTAATATAATATTGAAAGGTCCACATTAACTAAGAAGATCTAAAAACACATTAGGAATTTTCAAGTTTTAGAAGAAACGAATT
101166 T G S GGGCTGCTAATATAATATTGAAAGGTCCGCATTAACTAAGAAGATCTAAAAACACATTAGGAATTTTCAAGTTTTAGAAGAAACGAATT
101166 IS [AG] AATAACATCATTAAAACCAAAGCACAAGTTTGGGGCTGCTAATATAATATTGAAAGGTCC[AG]CATTAACTAAGAAGATCTAAAAACACATTAGGAATTTTCAAGTTTT AGAAGAAACGAATT
101168 I S TGCTGCCAGATTCACCATGCCGCGA
101168 P G S ATGACGTGGCAGACCCCAAGTCAGCTGTGAY
101168 P A S CGCGCCGAGGTCCAAGTCAGCTGTGAY
101168 T G S TGTGTCACAGCTGACTTGGGCGCGGCCATGGTGAATCTGGCAGCATG
101168 T A S TGTGTCACAGCTGACTTGGCAGCGGCCATGGTGAATCTGGCAGCATG
101168 IS [GA] CTGCCCTGCTACCTACAGGTGCCCAACATGGAGGTGACGCATGTGTCACAGCTGACTTGG[GA]CGCGGCATGGTGAATCTGGCAGCATGGCCGTCTTCCACCAACGCAG GGCCCCAGCTATT PVR
101173 I S CACATCCTGAATCTTTGCTACTACATAGCAGCACATCTGTACT
101173 P T S CGCGCCGAGGATAGTGTAGACTCAAGAATGTTY
101173 P C S ATGACGTGGCAGACGTAGTGTAGACTCAAGAATGTY
101173 T T S AGTAAACATTCTTTGAGTCTACACTATGTACAGATGTGCTGCTATGTAGTAGCAAAGATTCAGGATGTGCC
101173 T C S AGTAAACATTCTTTGAGTCTACACTACGTACAGATGTGCTGCTATGTAGTAGCAAAGATTCAGGATGTGCC
101173 IS [TC] AAATTATCTGGCTAAATCAGTCCCTTGTTTATTTACTAAACATTCTTTGAGTCTACACTA[TC]GTACAGATGTGCTGCTATGTAGTAGCAAAGATTCAGGATGTGCCCTC AAGGAATGTCTGT
101206 I A AGCCATTGAGTTCCATGAGTGAATGGGCCTAAACATGAGT
101206 P G A ATGACGTGGCAGACGAAGAATGCAACTCTATACTACAY
101206 P A A CGCGCCGAGGAAAGAATGCAACTCTATACTACAY
101206 T G A TGCATGTAGTATAGAGTTGCATTCTTCCTCATGTTTAGGCCATTCACTCATGGAACTCAATGGCTCT

FIGURE 129C









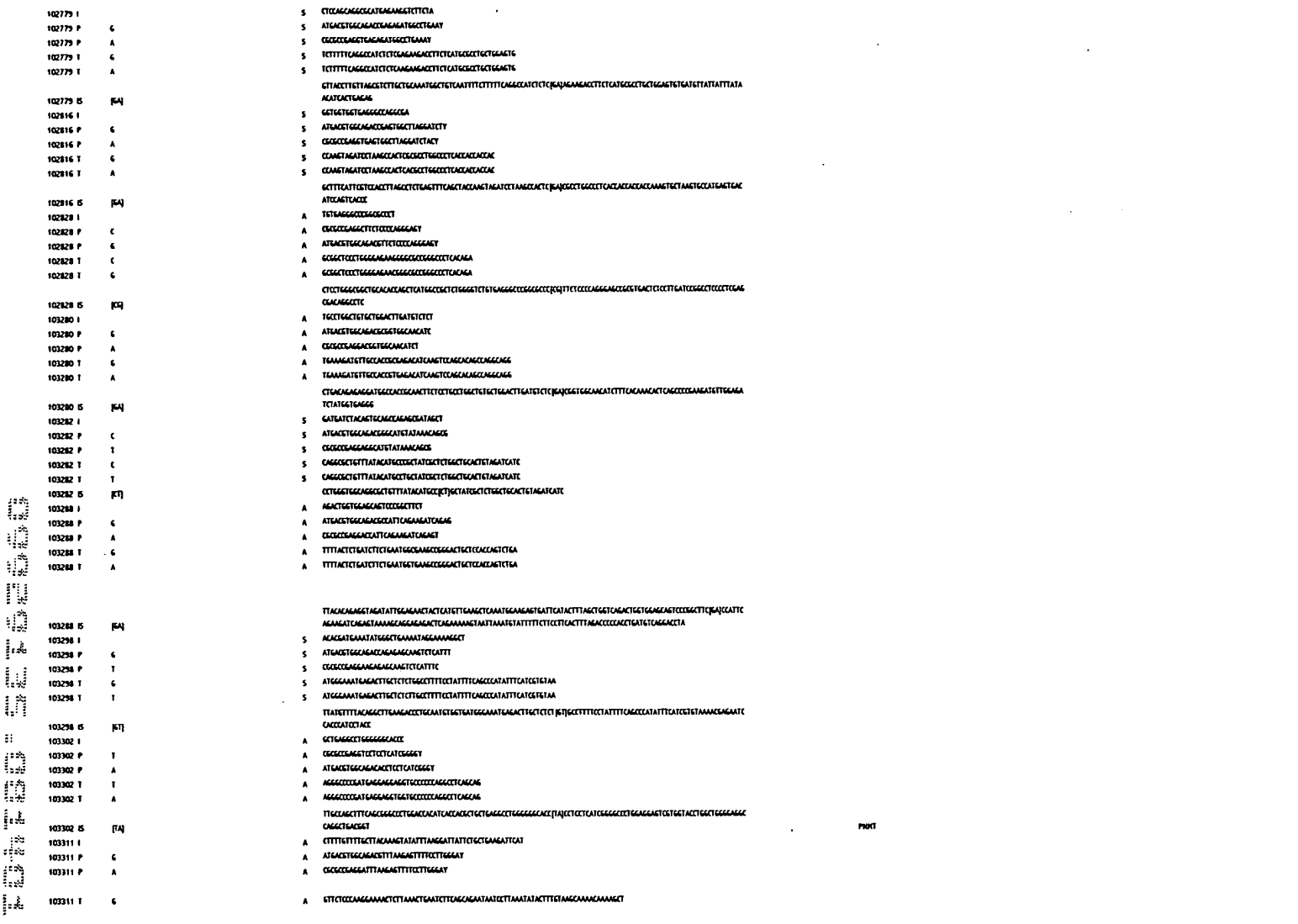
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101740 IS   [GA]      GTGCAATGTGCAA
101742 I            A  GGATTCAAATGCAGGGTGGTCTGACCCCAT
101742 P    G       A  ATGACGTGGCAGACGGGCCAAGATCTCTTTCY
101742 P    A       A  CGCGCCGAGGAGGCCAAGATCTCTTTCTY
101742 T    G       A  CAATAGAAAGAGATCTTGGCCCTGGGGTCAGACCACCCTGCATTTGAATCCCA
101742 T    A       A  CAATAGAAAGAGATCTTGGCCTTGGGGTCAGACCACCCTGCATTTGAATCCCA
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101742 IS   [GA]      CTCAAGCATCTAGG
101745 I            S  AGCAACACATCCTTCTTCTTCTAAGAAATAACCCAGGAATTCCATT
101745 P    C       S  ATGACGTGGCAGACAGTTAGAAACAATAGTTTTCAGGY
101745 P    T       S  CGCGCCGAGGAAGTTAGAAACAATAGTTTTCAGGY
101745 T    C       S  AATACCTGAAAAACTATTGTTTCTAACTCATGGAATTCCTGGGTTATTTCTTAGAAGAAGAAGGATGTGTTGCTAT
101745 T    T       S  AATACCTGAAAAACTATTGTTTCTAACTTATGGAATTCCTGGGTTATTTCTTAGAAGAAGAAGGATGTGTTGCTAT
                      TTGTTTTACTCTTATAACTTTATTTAGTTAGGAATACCTGAAAAACTATTGTTTCTAACT[CT]ATGGAATTCCTGGGTTATTTCTTAGAAGAAGAAGGATGTGTTGCTA
101745 IS   [CT]      TCTCAATAATATTA
101749 I            A  GCCACACACACAGAGAGAAATGCAGTAGCCTTA
101749 P    T       A  CGCGCCGAGGTGCCCCTAATCTCATGAY
101749 P    C       A  ATGACGTGGCAGACGCCCCTAATCTCATGAY
101749 T    T       A  ATTCTCATGAGATTAGGGGCAAAGGCTACTGCATTTCTCTCTCTGTGTGTGTGGCCC
101749 T    C       A  ATTCTCATGAGATTAGGGGCGAAGGCTACTGCATTTCTCTCTCTGTGTGTGTGGCCC
                      GCAGGGCCAAGAGAAAGCAAAGAGAGGGCACACACACAGAGAGAGAAATGCAGTAGCCTT[TC]GCCCCTAATCTCATGAGAATCTGCTAATTTTCCAATCTCTCACTGGA
101749 IS   [TC]      ATATTTTATGCCT
101756 I            S  CCCCCACGTTTAACGGTTCAGCGGTGAA
101756 P    G       S  ATGACGTGGCAGACCSATAACAGCAGCSACY
101756 P    A       S  CGCGCCGAGGTGATAACAGCAGCSACAY
101756 T    G       S  ATGATGTCGCTGCTGTTATCGTCACCGCTGAACCGTTAAACGTGGGGGGC
101756 T    A       S  ATGATGTCGCTGCTGTTATCATCACCGCTGAACCGTTAAACGTGGGGGGC
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101756 IS   [GA]      GCTAACCAGCCA
101769 I            S  CCCCAGTGGCGTTGGCTGCAGTTAACC
101769 P    A       S  CGCGCCGAGGTGTGTCCATTCCCTTCTY
101769 P    T       S  ATGACGTGGCAGACAGTGTCCATTCCCTTCTTY
101769 T    A       S  GACGAAGAAGGGAATGGACACAGTTAACTGCAGCCAACGCCACTGGGGGA
101769 T    T       S  GACGAAGAAGGGAATGGACACTGTTAACTGCAGCCAACGCCACTGGGGGA
                      TGAAGAGAAGAGGCCCACATACAGGATGATAGGAAGAAGACGAAGAAGGGAATGGACACA[AT]GTTAACTGCAGCCAACGCCACTGGGGGATGGCGTAGGCCAGGCCG
101769 IS   [AT]      GCCAGAATGAACTGG
101780 I            A  CCTGTAGGCCAAAATCTGTCCAGACGGTCAAAAATCA
101780 P    T       A  CGCGCCGAGGTTTACCTTGGTGATCTCTCTTTY
101780 P    C       A  ATGACGTGGCAGACCTTACCTTGGTGATCTCTCTTTY
101780 T    T       A  GGTCAAAGAAGATCACCAAGGTAAAGATTTTTGACCSTCTGGACAGATTTGGCCTACAGGGG
101780 T    C       A  GGTCAAAGAAGATCACCAAGGTAAGGATTTTTGACCSTCTGGACAGATTTGGCCTACAGGGG
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101780 IS   [TC]      TTCCTCTGAGTGG
101786 I            S  GGGAAGCCTTGGGGCCTCAGAATTCATTGAAT
101786 P    T       S  CGCGCCGAGGAATTTGTTTTGGGACAACTGY
101786 P    C       S  ATGACGTGGCAGACGATTTGTTTTGGGACAACTGY
101786 T    T       S  CTTCCAGTTGTCCCAAAACAAATTTCAATGAATTCTGAGGCCCCAAGGCTTCCCTT
101786 T    C       S  CTTCCAGTTGTCCCAAAACAAATCTTCAATGAATTCTGAGGCCCCAAGGCTTCCCTT
                      CAGCCTTGCCCACGGGCGAGTATCCATGGTGCTGATTCTTCCAGTTGTCCCAAAACAAAT[TC]TTCAATGAATTCTGAGGCCCCAAGGCTTCCCTTGTTGGCCAAGTCACT
101786 IS   [TC]      GATAAGGTTCCA                                                                                                    FLJ11099
101787 I            A  AGAGGGTTTTCTGGAAACTCTCCAGCTAAAAAAGGCTT
101787 P    G       A  ATGACGTGGCAGACGAGAGCCCAAAGAGATCY
101787 P    C       A  CGCGCCGAGGCAGACCCCAAAGAGATCY
101787 T    G       A  CTGGGATCTCTTTGGGCTCTCAGCCTTTTTTAGCTGGAGAGTTTCCAGAAAACCCTCTGT
101787 T    C       A  CTGGGATCTCTTTGGGCTCTGAGCCTTTTTTAGCTGGAGAGTTTCCAGAAAACCCTCTGT
                      GCTGTCTGTTTCCTGTGCTCCACAGAGGGTTTTCTGGAAACTCTCCAGCTAAAAAAGGCT[GC]AGAGCCCAAAGAGATCCCAGACTCAGCCCTACCTTCTAAAGGATTCA
101787 IS   [GC]      TGGTCTCCCTGAG
101824 I            A  GGCTGGCAGGGGCGGGGT
101824 P    G       A  ATGACGTGGCAGACGCAGGGGTAGGCTGY
101824 P    A       A  CGCGCCGAGGACAGGGGTAGGCTGY
101824 T    G       A  CTCCCAGCCTACCCCTGCCCCCGCCCCTGCCAGCCCT
101824 T    A       A  CTCCCAGCCTACCCCTGTCCCCGCCCCTGCCAGCCCT
                      TAAGCCAGGGCTCCAGGCCTCTGCACAAATCCTCTTTACACAGGGCTGGCAGGGGCGGGG[GA]CAGGGGTAGGCTGGGAGCAGACTTCCAGCTGCACTTGTCACCCTTT
101824 IS   [GA]      CTAGGAGCCACCG
102002 I            A  TTGTGCCCACCACCAGTCTGGGTAGT
102002 P    A       A  CGCGCCGAGGAGCAGGTGTCTCACTGY
102002 P    G       A  ATGACGTGGCAGACGGCAGGTGTCTCACTY
102002 T    A       A  GTGCCAGTGAGACACCTGCTCTACCCAGACTGGGTGGTGGGCACAAAT
102002 T    G       A  GTGCCAGTGAGACACCTGCCCTACCCAGACTGGGTGGTGGGCACAAAT
                      CATGTGATGCCTATAGCAGCTACTGAACTGATATTTGTGCCCACACCCAGTCTGGGTAG[AG]GCAGGTGTCTCACTGGCACAGTGCAGACAGAGCTTGACATCAGAAAAA
102002 IS   [AG]      CTTACCAGAAGTA
102003 I            S  AGGCTACCACTTGCAAGCCTGTCCTGAAACA
102003 P    G       S  ATGACGTGGCAGACCGCCTTCTCAGTGCTY
102003 P    A       S  CGCGCCGAGGTGCCTTCTCAGTGCTTY
102003 T    G       S  CTGTAAGCACTGAGAAGCCGATTTCAGGACAGGCTTGCAGTGGTAGCCTGG
102003 T    A       S  CTGTAAGCACTGAGAAGCCAGTTTCAGGACAGGCTTGCAGTGGTAGCCTGG
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102003 IS   [GA]      GCCATCATGACCCC
102077 I            S  TCTTTCCTACATGGTGCGTATGGCTTATAGGACCTCATAATGT
102077 P    C       S  ATGACGTGGCAGACGCAAAGAAAAATCAATACCTTTCY
102077 P    T       S  CGCGCCGAGGACAAAGAAAAATCAATACCTTTCTY
102077 T    C       S  ATACAGAAAGGTATTGATTTTTCTTTGCCATTATGAGGTCCTATAAGCCATACGCACCATGTAGGAAAGAGC
102077 T    T       S  ATACAGAAAGGTATTGATTTTTCTTTGTCATTATGAGGTCCTATAAGCCATACGCACCATGTAGGAAAGAGC
                      GACCTACAAAGTGAGCAGACAGGGGCACAAAAATACAGAAAGGTATTGATTTTTCTTTG[CT]CATTATGAGGTCCTATAAGCCATACGCACCATGTAGGAAAGAGCTA
102077 IS   [CT]      TCTGACAAACTGAG
102241 I            S  GATTCATGCTGCTGCCACCCTGTGATGTGTTTATTATCTAA
102241 P    A       S  CGCGCCGAGGTAATGGACTGTGTCAAACATTY
102241 P    G       S  ATGACGTGGCAGACCAATGGACTGTGTCAAACAT
102241 T    A       S  CCATAATGTTTGACACAGTCCATTATAGATAATAAACACATCACAGGGTGGCAGCAGCATGAATCTT
102241 T    G       S  CCATAATGTTTGACACAGTCCATTGTAGATAATAAACACATCACAGGGTGGCAGCAGCATGAATCTT
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102241	IS	[AG]		GGTCCCAATATCCA	
102331	I		A	AGCAAATCCCAGATTGAGGGCATCACACCATAAGTACT	
102331	P	G	A	ATGACGTGGCAGACGTTTTCCCTTTTGGTTCTTAAGT	
102331	P	A	A	CGCGCCGAGGAATTTTCCCTTTTGGTTCTTAAGT	
102331	T	G	A	ATATCTTAAGAACCAAAAGGGAAAACGTACTTATGGTGTGATGCCCTCAATCTGGGATTTGCTAA	
102331	T	A	A	ATATCTTAAGAACCAAAAGGGAAAATGTACTTATGGTGTGATGCCCTCAATCTGGGATTTGCTAA	
				GGACTTGTCCTGCTGCATCTCTTAGCAAATCCCAGATTGAGGGCATCACACCATAAGTAC[GA]TTTTCCCTTTTGGTTCTTAAGATATTTGGAGGTTTATACTCAAAATA	
102331	IS	[GA]		TTTGCAGACATCT	
102334	I		A	CAAGTCAGCAGGCCAAGTTTGGGGACTATCAT	
102334	P	G	A	ATGACGTGGCAGACGTGTAATAGTGCTATGGGTATTT	
102334	P	A	A	CGCGCCGAGGATGTAATAGTGCTATGGGTATTTT	
102334	T	G	A	TGAGAAATACCCATAGCACTATTACACTGATAGTCCCCAAACTTGGCCTGCTGACTTGGT	
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102340	I		S	GTGAGACAGACAATGCTGGTCCAGCCCCA	
102340	P	A	S	CGCGCCGAGGTGCTGGCTGCCY	
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102340	T	G	S	GTGGGGCAGGCCAGCGGGGCTGGACCAGCATTGTCTCTCTCACAG	
				GTGTGTTAGGGCCATGATGAGCAGCTGGACAGAGGTTTGTACCAGGTGGGGCAGGCCAGC[AG]GGGGCTGGACAGCATGTCTCTCTCACAGAATACATCCAGCCTGT	
102340	IS	[AG]		GTGCCTCCCAGCTG	
102368	I		A	AGTCAGCAACAAATATTCATGGCTTGTACTTTTGCCAGAAA	
102368	P	T	A	CGCGCCGAGGTTGATGTTACGTCTATTAGATTGTY	
102368	P	C	A	ATGACGTGGCAGACCTGATGTTACGTCTATTAGATTGTY	
102368	T	T	A	TTTGACAATCTAATAGACGTAACATCAATTCTGGCAAAAGTACAAGCCATGAATATTTGTTGCCTGACTTA	
102368	T	C	A	TTTGACAATCTAATAGACGTAACATCAGTTCTGGCAAAAGTACAAGCCATGAATATTTGTTGCCTGACTTA	
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102530	I		A	CCCCCTCCTCTCTCCCCTTTGGTATGTCTTTATTTCC	
102530	P	T	A	CGCGCCGAGGTAACACTCTAGATATGCACAGY	
102530	P	A	A	ATGACGTGGCAGACAAACACTCTAGATATGCACAGY	
102530	T	T	A	AAAACTGTGCATATCTAGAGTGTTAGAAATAAAGACATACCAAGGGGCAGAGAGGAGGGGGGA	
102530	T	A	A	AAAACTGTGCATATCTAGAGTGTTTGAAATAAAGACATACCAAGGGGCAGAGAGGAGGGGGA	
				GGTATGTTTTTCTTCTTTTTTTTCCCCCCTCCTCTCTCCCCTTTGGTATGTCTTTATTTC[TA]AAACACTCTAGATATGCACAGTTTTGATCTTTATTATGAGATGACCTAT	
102530	IS	[TA]		GATTTGCATTAA	
102614	I		S	TCTCATTCAGACAATAACAAGCTTCAGGTAAAACCCTCACTTTCAAT	
102614	P	G	S	ATGACGTGGCAGACAGAGAGAAAAATTCAAGGAAGY	
102614	P	T	S	CGCGCCGAGGAAGAGAGAAAAATTCAAGGAAGAT	
102614	T	G	S	TAGATCTTCCTTGAATTTTCTCTCTCTGTTGAAAGTGAGGGTTTTACCTGAAGCTTGTTATTGTCTGAATGAGAAA	
102614	T	T	S	TAGATCTTCCTTGAATTTTCTCTCTTTTGAAAGTGAGGGTTTTACCTGAAGCTTGTTATTGTCTGAATGAGAAA	
				CAGTGTAGTTTGCAAGAGAGCCCTTGGATCCAATTAGATCTTCCTTGAATTTTTCTCTCTCT[GT]TTCAAAGTGAGGGTTTTACCTGAAGCTTGTTATTGTCTGAATGAGAA	
102614	IS	[GT]		ATAACATATTCAA	
102675	I		S	CCAGTGTTGTTTTCTTTAGTTGGGACCAACTCCACTCTCT	
102675	P	T	S	CGCGCCGAGGACATCATCATAAGGAAGAACATY	
102675	P	C	S	ATGACGTGGCAGACGCATCATCATAAGGAAGAACAT	
102675	T	T	S	CAAGATGTTCTTCCTTATGATGATGTGAGAGTGGAGTTGGTCCCAACTAAAGAAAACAACACTGGTT	
102675	T	C	S	CAAGATGTTCTTCCTTATGATGATGCGAGAGTGGAGTTGGTCCCAACTAAAGAAAACAACACTGGTT	
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102675	IS	[TC]		AACGCATCACATAT	PTPN21
102687	I		S	CCTTTCTCTCCAGTAGCTCTGGCCCTGGT	
102687	P	C	S	ATGACGTGGCAGACGCAGCAAAGCCCAT	
102687	P	T	S	CGCGCCGAGGACAGCAGCAAGCCTAGY	
102687	T	C	S	ACTGCTGGCCTTCCTCGCCCAGGGCCAGAGCTACTGGAGAGAAAGGC	
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102687	IS	[CT]		CTTTTCTTTAAGT	
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102701	I		S	TCAATGGGAGTGTTTTGAAATTGTGTGTGTCCAAA	
102701	P	G	S	ATGACGTGGCAGACCTTTCCTGCAGGATTTTY	
102701	P	A	S	CGCGCCGAGGTCTTTCCTGCAGGATTTTGY	
102701	T	G	S	TTGCAAAATCCTGCAGGAAAGGTTGGACACACACAATTTCAAAACACTCCCATTGAAA	
102701	T	A	S	TTGCAAAATCCTGCAGGAAAGATTGGACACACACAATTTCAAAACACTCCCATTGAAA	
				AATGAGTTGAGTCCTGAGATGTGCTTTGTTTTCCACCTATTGCCAAAATCCTGCAGGAAAG[GA]TTGGACACACACAATTTCAAAACACTCCCATTGAAAGAATATCTA	
102701	IS	[GA]		GTAAATAGAATGAA	
102739	I		S	GTCTGGAATTGTCCTGCAGTCTGTCCAGTCTCAT	
102739	P	C	S	ATGACGTGGCAGACGGAGCTAGAAATACAGCAAGY	
102739	P	T	S	CGCGCCGAGGAGAGCTAGAAATACAGCAAGY	
102739	T	C	S	CTTCCTTGCTGTATTTCTAGCTCCTGAGACTGGACAGACTGCAGGACAATTCCAGACAC	
102739	T	T	S	CTTCCTTGCTGTATTTCTAGCTCTTGAGACTGGACAGACTGCAGGACAATTCCAGACAC	
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102739	IS	[CT]		GGTGTGGGTGTCTG	
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102743	P	A	S	CGCGCCGAGGTCTGGCCTTCTTCTTCY	
102743	P	G	S	ATGACGTGGCAGACCCTGGCCTTCTTCCTY	
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102743	IS	[AG]		CAGCAGCAGCTGG	GLE1L
102768	I		A	GTTATCTGGTGAAGCTGAGCCAGGCCTCTTC	
102768	P	G	A	ATGACGTGGCAGACGTGGAATTACTTGTTTTTGCCY	
102768	P	T	A	CGCGCCGAGGTTGGAATTACTTGTTTTTGCCY	
102768	T	G	A	AAGAGGCAAAAACAAGTAATTCCAAACAGAGCCTGGCTCAGCTTCACCAGATAACCA	
102768	T	T	A	AAGAGGCAAAAACAAGTAATTCCAAAAGAGCCTGGCTCAGCTTCACCAGATAACCA	
				CAGTCTTGCAGCTCCTGCCCTTTGCCCTTTGGTTATCTGGTGAAGCTGAGCCAGGCCTCTT[GT]TGGAATTACTTGTTTTTGCCTCTTTATCTACAGATAGGCAGGGGCGGT	
102768	IS	[GT]		TGTAGTTTGTTA	

FIGURE 129C



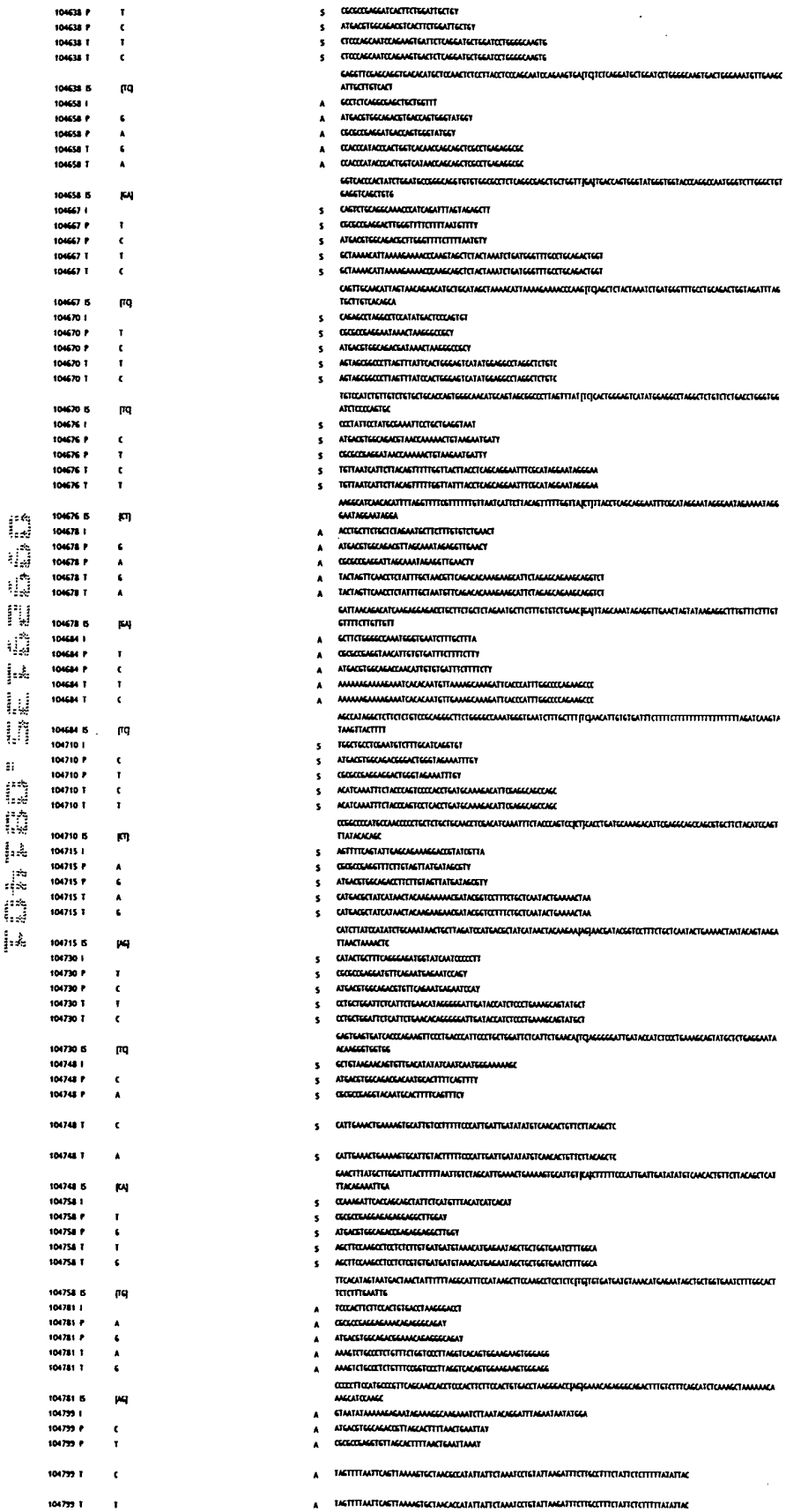
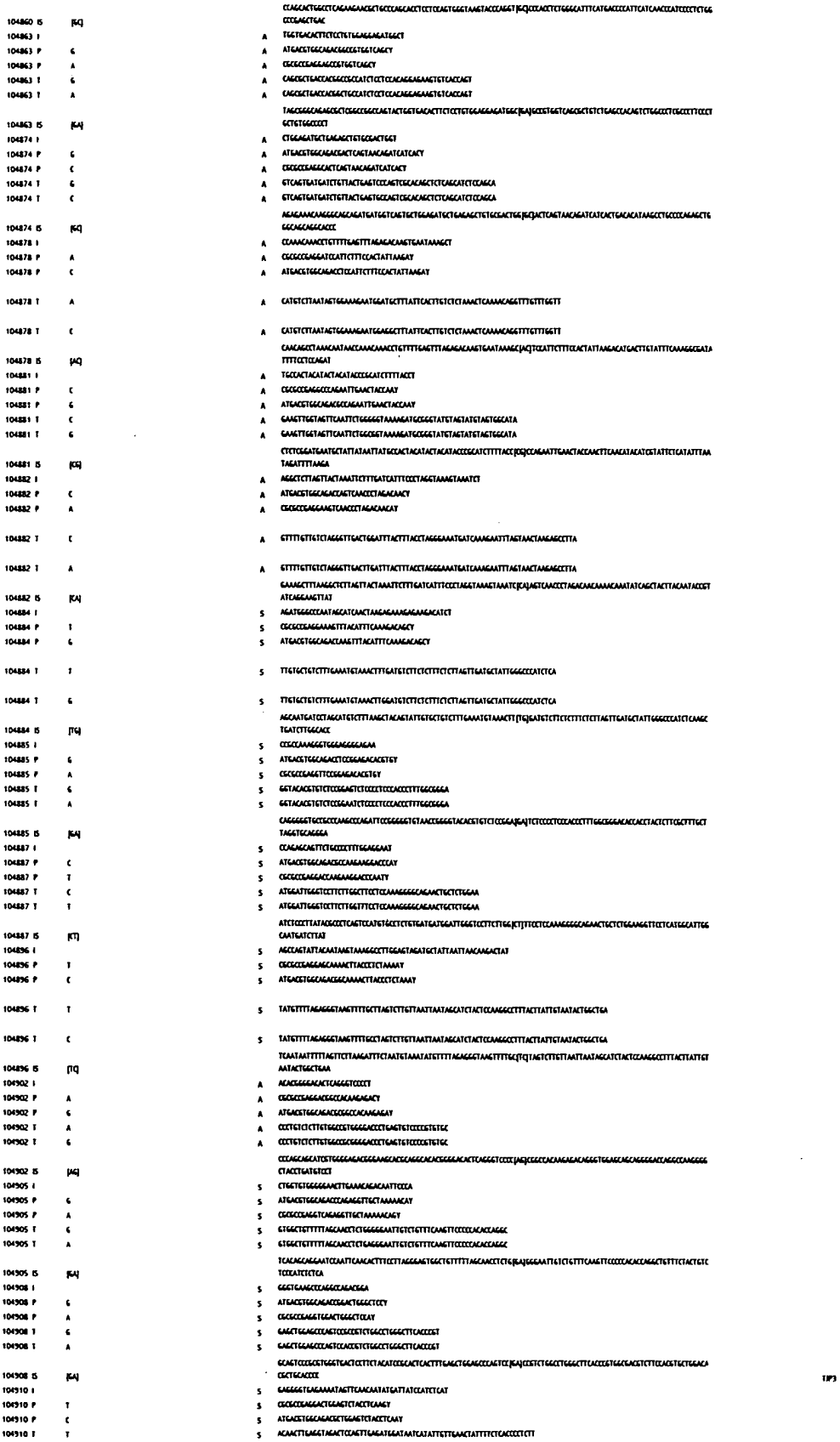
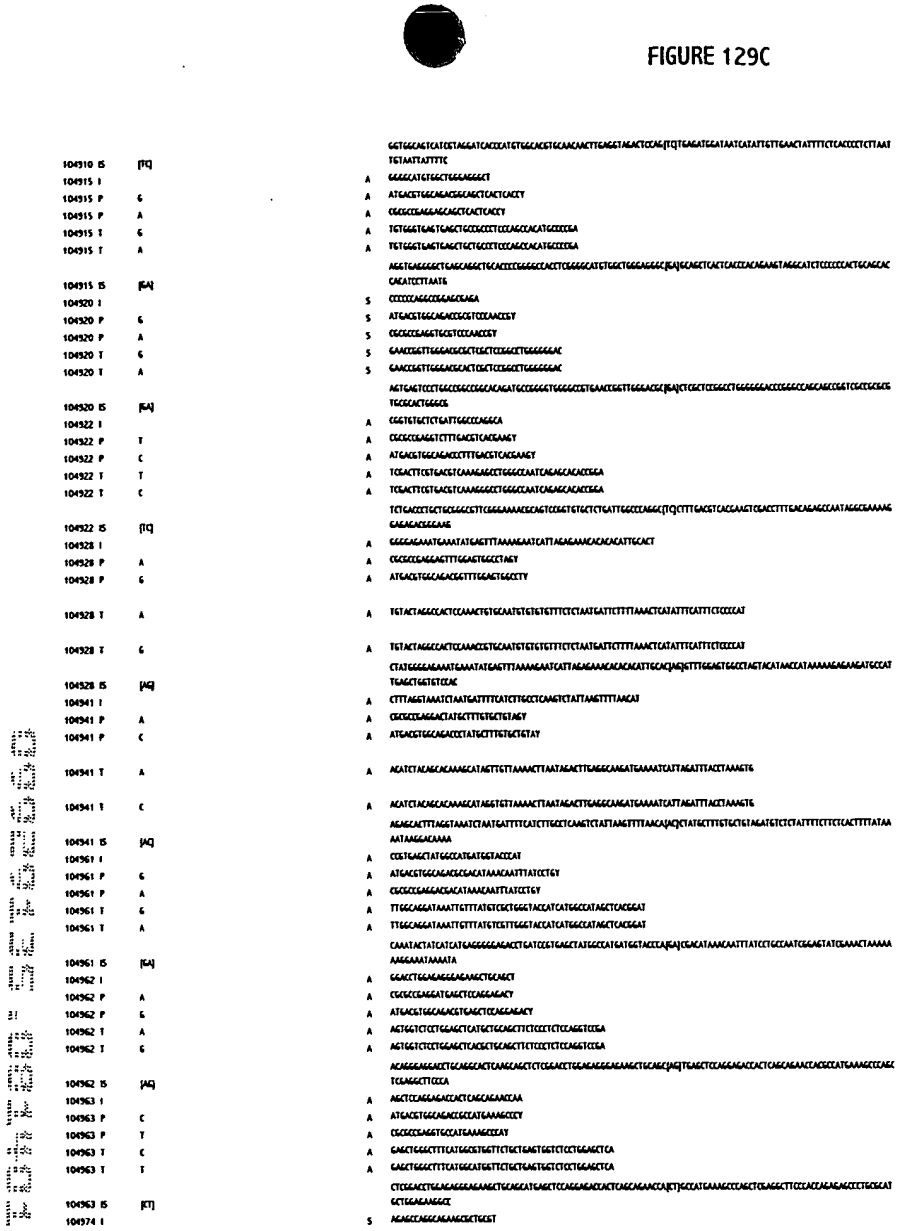


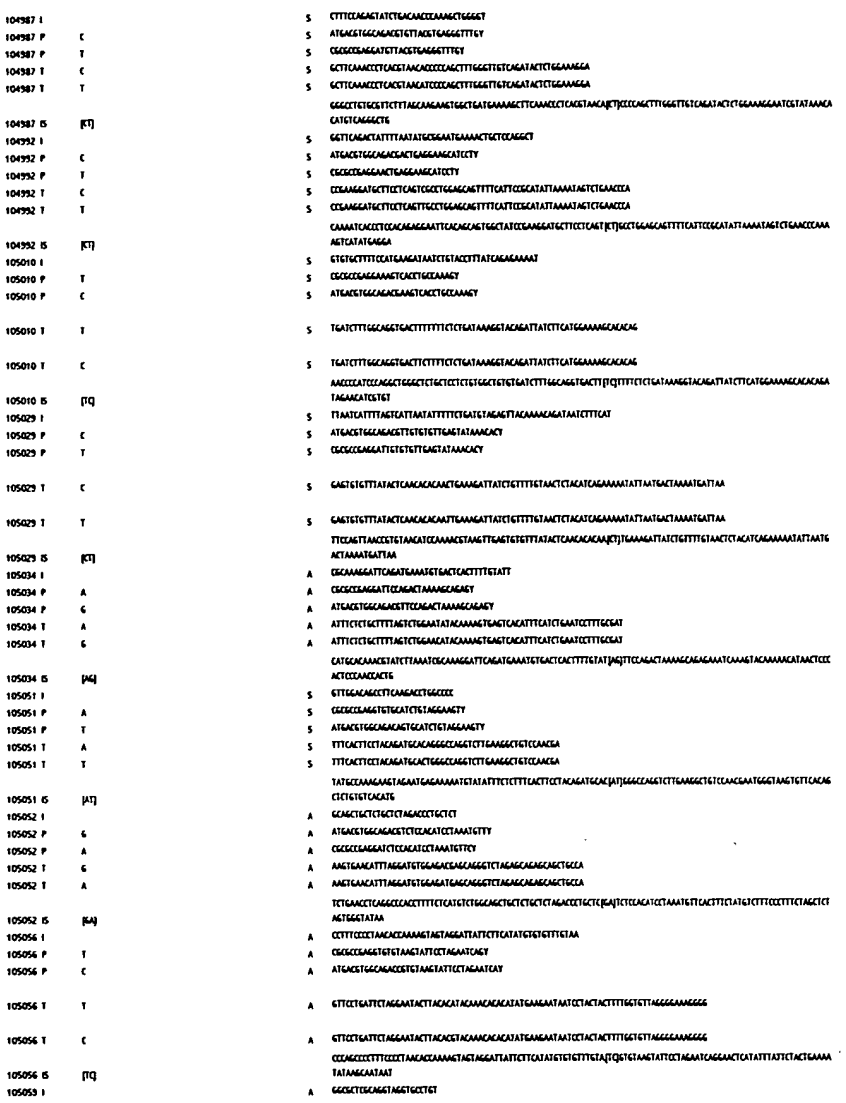


FIGURE 129C





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105100 I		S	TGATCACACCGGGGAGAGCTGGAT
105100 P	C	S	ATGACGTGGCAGACAGGGGAACTGGAGATGY
105100 P	G	S	CGCGCCGAGGCAGGGGAACTGGAGATY
105100 T	C	S	CAACCATCTCCAGTTCCCCTCTCCAGCTCTCCCCCGGTGTGATCATT
105100 T	G	S	CAACCATCTCCAGTTCCCCTGTCCAGCTCTCCCCCGGTGTGATCATT
105100 IS	[CG]		TGGATTAATAGGAATATAGCAAATATTTTCATTTCAAATTCAACCATCTCCAGTTCCCCT[CG]TCCAGCTCTCCCCCGGTGTGATCATTTTTTATTCTCCTCTGCTCACCAG ACTTGTGTATGC
105110 I		A	GCCATCTGGTAGGTGATTTAAACTAAAGCAGCAATTTGT
105110 P	G	A	ATGACCTGGCAGACGGTTGCTTTTATTTCTGCATATY
105110 P	A	A	CGCGCCGAAGAGTTGCTTTTATTTCTGCATATTAY
105110 T	G	A	ATTTTAATATGCAGAAATAAAAGCAACCCAAATTGCTGCTTTAGTTTAAATCACCTACCAGATGGCAA
105110 T	A	A	ATTTTAATATGCAGAAATAAAAGCAACTCAAATTGCTGCTTTAGTTTAAATCACCTACCAGATGGCAA
105110 IS	[GA]		ATGTGAAGTTGGAAAATAAATTGCCATCTGGTAGGTGATTTAAACTAAAGCAGCAATTTG[GA]GTTGCTTTTATTTCTGCATATTAAAATGTCACTCTCCAATAGGATA AAAATTTGGTGGGA
105117 I		A	GGCTGAATGCATGAGAACTTCTAACCTTGAATTGAAGGAGAAT
105117 P	C	A	ATGACGTGGCAGACCGGAAGAATAACTACTTTATTCACY
105117 P	A	A	CGCGCCGAAGAGGAAGAATAACTACTTTATTCACAY
105117 T	C	A	CACTTGTGAATAAAGTAGTTATTCTTCCGTTCTCCTTCAATTCAAGGTTAGAAGTTCTCATGCATTCAGCCAA
105117 T	A	A	CACTTGTGAATAAAGTAGTTATTCTTCCTTTCTCCTTCAATTCAAGGTTAGAAGTTCTCATGCATTCAGCCAA
105117 IS	[CA]		ATAATTAAACAAAAATTTGGCTGAATGCATGAGAACTTCTAACCTTGAATTGAAGGAGAAA[CA]GGAAGAATAACTACTTTATTCACAAGTGTATGCCTGAGAAATTAG AGGCACTGAGCTTAA
105119 I		A	TGCTGTCCTTTTCTCTCTTTTTTGGGGGCAGTTTCCT
105119 P	G	A	ATGACGTGGCAGACGCCTCAGACCACAGAGY
105119 P	A	A	CGCGCCGAGGACCTCAGACCACAGAGY
105119 T	G	A	CAGGCTCTGTGGTCTGAGGCGGAAACTGCCCCCAAAAAAGAAGAAAAGGACAGCAAA
105119 T	A	A	CAGGCTCTGTGGTCTGAGGTGGAAACTGCCCCCAAAAAAGAAGAAAAGGACAGCAAA
105119 IS	[GA]		CTTTCCGTGTTTGAAACTCATTTTTTGCTGTGCTTTTTCTTCTTTTTTGGGGGCAGTTTCC[GA]CCTCAGACCACAGAGCCTGAATGGATCAGATTATGGAGGAGGTAAGA GGCCCTTGGAGGA
105121 I		A	CCCTCTCCTCCTCCAACGCCACCAT
105121 P	A	A	CGCGCCGAGGATAACCTCCCAGGTACCY
105121 P	G	A	ATGACGTGGCAGACGTAACCTCCCAGGTACCY
105121 T	A	A	ATGTGGTACCTGGGAGGTTATTGGTGGCGTTGGAGGAGGAGAGGGCA
105121 T	G	A	ATGTGGTACCTGGGAGGTTACTGGTGGCGTTGGAGGAGGAGAGGGCA
105121 IS	[AG]		GAATGAICTACTTCCTCATGTCCCACCCCTCTTCTGCCCTCTCCTCCTCCAACGCCACCA[AG]TAACCTCCCAGGTACCACATACTCTGACCCCTAAGGGCCTGGCCCCAGGG TGGAAAGATG
105126 I		A	AGGAAATGTAGGTATTTGAGCAAAAAATTTAACCCAAATTAGATTTTTACT
105126 P	G	A	ATGACGTGGCAGACGATTTACCCACTTACTAGAATAAGTY
105126 P	C	A	CGCGCCGAGGCATTTACCCACTTACTAGAATAAGTY
105126 T	G	A	TAGGACTTATTCTAGTAAGTGGGTAAATGTAAAAATCTAAATTTGGGTTAAATTTTTTCGCTCAAATACCTACATTTCCTTT
105126 T	C	A	TAGGACTTATTCTAGTAAGTGGGTAAATGGTAAAAATCTAAATTTGGGTTAAATTTTTTCGCTCAAATACCTACATTTCCTTT
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105130 I		S	ACCATGACAATGATTGCCAAGACGGCAGTGAA
105130 P	G	S	ATGACGTGGCAGACCGAAACATGCTTGCAGTY
105130 P	A	S	CGCGCCGAGGTGAACATGCTTGCAGTACY
105130 T	G	S	CACCGTACTGCAAGCATGTTCGTCACTGCCGTCTTGGCAATCATTGTCATGGTCA
105130 T	A	S	CACCGTACTGCAAGCATGTTCATCACTGCCGTCTTGGCAATCATTGTCATGGTCA
105130 IS	[GA]		ACAAACACTCCCAACAACATGACCCAGCATAAAGAAATCACCGTACTGCAAGCATGTTC[GA]TCACTGCCGTCTTGGCAATCATTGTCATGGTCACAGACATAAGCACC AGGGATACACTCT
105156 I		A	ACAACTGAAGGGATCCAACTTGCAAAAGAACTAGGAGCT
105156 P	A	A	CGCGCCGAGGAACTATCTTGAACTCCACAT
105156 P	G	A	ATGACGTGGCAGACGACCTATCTTGAACTCCACY
105156 T	A	A	AGGCTGTGGAGTTCAAGATAGGTTGCTCCTAGTTCTTTTGCAAGTTGGATCCCTTCAGTTGTAC
105156 T	G	A	AGGCTGTGGAGTTCAAGATAGGTCGCTCCTAGTTCTTTTGCAAGTTGGATCCCTTCAGTTGTAC
105156 IS	[AG]		AGACAGAGGAAGCTGTGTTAGTAGAACAACTGAAGGGATCCAACTTGCAAAAGAACTAGGAGCTAG[AG]ACCTATCTTGAACTCCACAGCCTTGATGACTTCTACATAGGAAAGT ATTTTGGAGGAGTG
105166 I		A	AATCAAGCTTATATAAGTGAAACAGAAATATAGCATTATAAAGAATTTTATCATCACAGA
105166 P	T	A	CGCGCCAGGTTGGAGTAAAGCACCTGY
105166 P	C	A	ATGACGTGGCAGACCTGGAGTAAAGCACCCTY
105166 T	T	A	TACTCAGGGTCCTTTACTCCAACTGTGATGATAAAATTCTTTATAAATGCTATATTCTCGTTTCACTTATATAAGCTTGATT
105166 T	C	A	TACTCAGGGTCCTTTACTCCAGCTGTGATGATAAAATTCTTTATAAATGCTATATTCTCGTTTCACTTATATAAGCTTGATT
105166 IS	[TC]		AATCAAGCTTATATAAGTGAAACAGAAATATAGCATTTATAAAGAATTTTATCATCACAG[TC]TGGAGTAAAGCACCTGAGTAAGTTAAGGTATAGTCATTCTAGTA GCCAAGTCTTAGATC
105167 I		S	GCAAGGTGCGCCTCGTGCCGA
105167 P	G	S	ATGACGTGGCAGACCTGCAGATCCAGGTGGY
105167 P	A	S	CGCGCCGAGGTTGCAGATCCAGGTGGY
105167 T	G	S	GGACCCACCTGGATCTGCAGCGGCACGAGGCGCACCTTGCAG
105167 T	A	S	GGACCCACCTGGATCTGCAACGGCACGAGGCGCACCTTGCAG
105167 IS	[GA]		CGGGCAACAACTCGGGCAACAGCAAACGCGCGCCTCCCCGCAGCACCCACCTGGATCTGCA[GA]CGCCACGAGGCGCACCTTGCAGCACTCGCTCACCGCGAAGCCCTTGGG CAAGTCCACGTA
105168 I		S	TCATGCCCTTCCCTGCCCTGTCTCCT
105168 P	C	S	ATGACCTGCCAGACGCCGTTCTTCCCCCY
105168 P	T	S	CGCGCCGAGGACCGTTCTTCCCCCY
105168 T	C	S	CGGTGGGGGGAAGAACGCCGCGACACAGGCGCAGGCAAGGGCATGAAG
105168 T	T	S	CGGTGGGGGGAAGAACGGTCGAACACAGGCGCAGGCAAGGGCATGAAG
105168 IS	[CT]		AGCTCCCCATCTGGGCACTGCACGAACTTGGTCTATGGGGCGGGGGTGGGGGAAGAACGG[CT]GGAGACAGGCCACAGGAAGGGCATGAAGGGGGCCCCTAAAGCCCTCT GTCTGGGGGAGACT
105170 I		S	CCCAGGAAAGGAAGCAGCTGAAAAAAAAAAGAAAGAC
105170 P	A	S	CGCGCCAGGTGATGAAGACAGGAGCAT
105170 P	C	S	ATGACGTGGCAGACGGATGAAGACAGGAGCAT
105170 T	A	S	GTATTGCTCCTGTCTTCATCATCTTCTTTTTTTTTTCAGCTGCTTCCCTTTCCCTGGGGG
105170 T	C	S	GTATTGCTCCTGTCTTCATCCTCTTCTTTTTTTTTCAGCTGCTTCCCTTTCCCTGGGGG
105170 IS	[AC]		TTTGTCATTGCTCCTTTCCCTGTATTGCTCCTTTCTCCTGTATTGCTCCTGTCTTCATC[AC]TCTTTCTTTTTTTTTCAGCTGCTTCCCTTTCCCTGGGGGCAAAACAAT GAAACATTTCA
105201 I		A	CCCAAAAGTGTACGCTTTATACTAATGCAGGCATGCATATT
105201 P	A	A	CGCGCCGAGGAAAGAATAGGGAAGCTGAATATY
105201 P	G	A	ATGACGTGGCAGACGAAGAATAGGGAAGCTGAATATY
105201 T	A	A	GAACATATTCAGCTTCCCTATTCTTTATATGCATGCCTGCATTAGTATAAAGCGGTACACTTTTGGGAC
105201 T	G	A	GAACATATTCAGCTTCCCTATTCTTCATATGCATGCCTGCATTAGTATAAAGCGGTACACTTTTGGGAC

FIGURE 129C

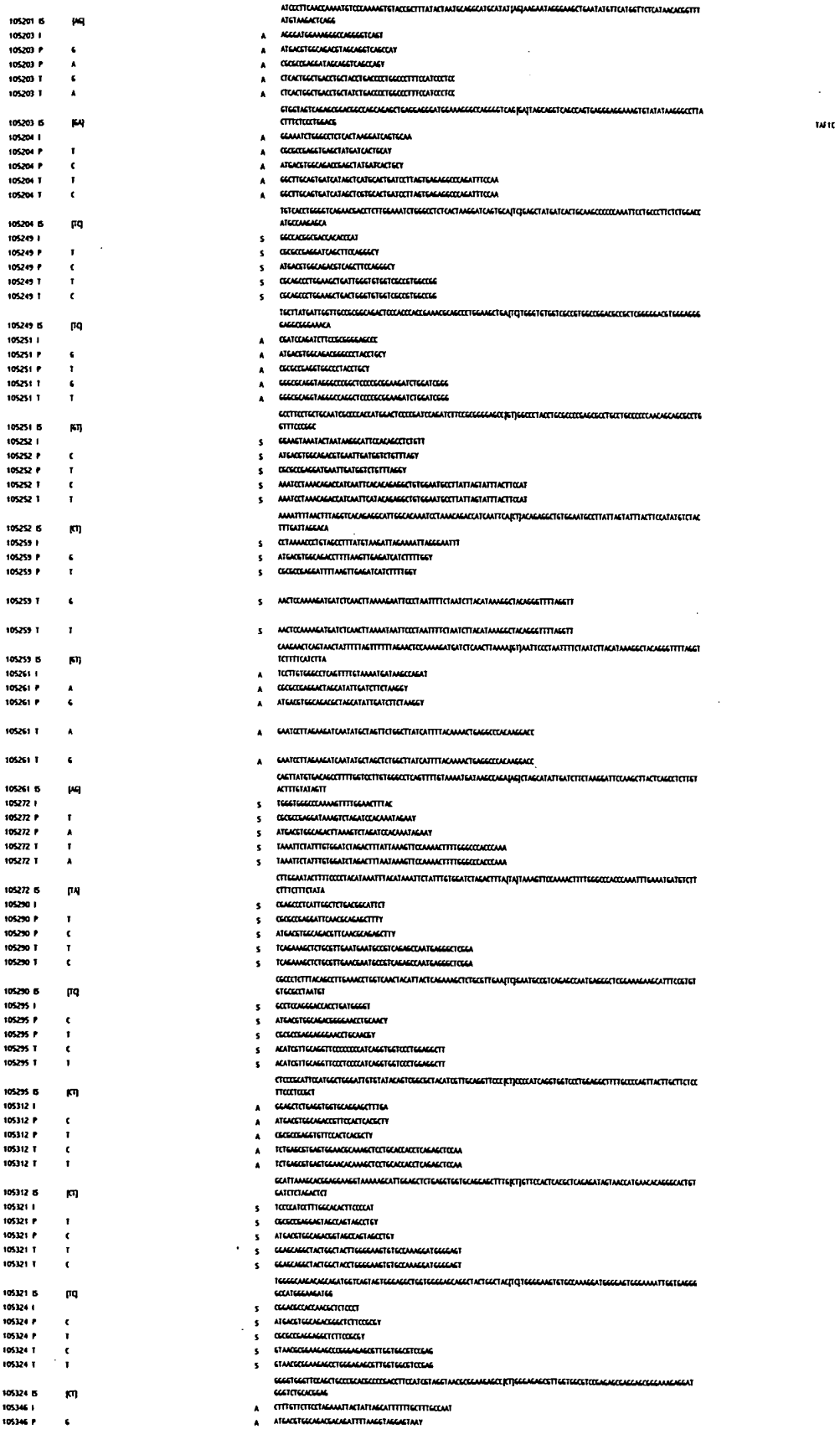
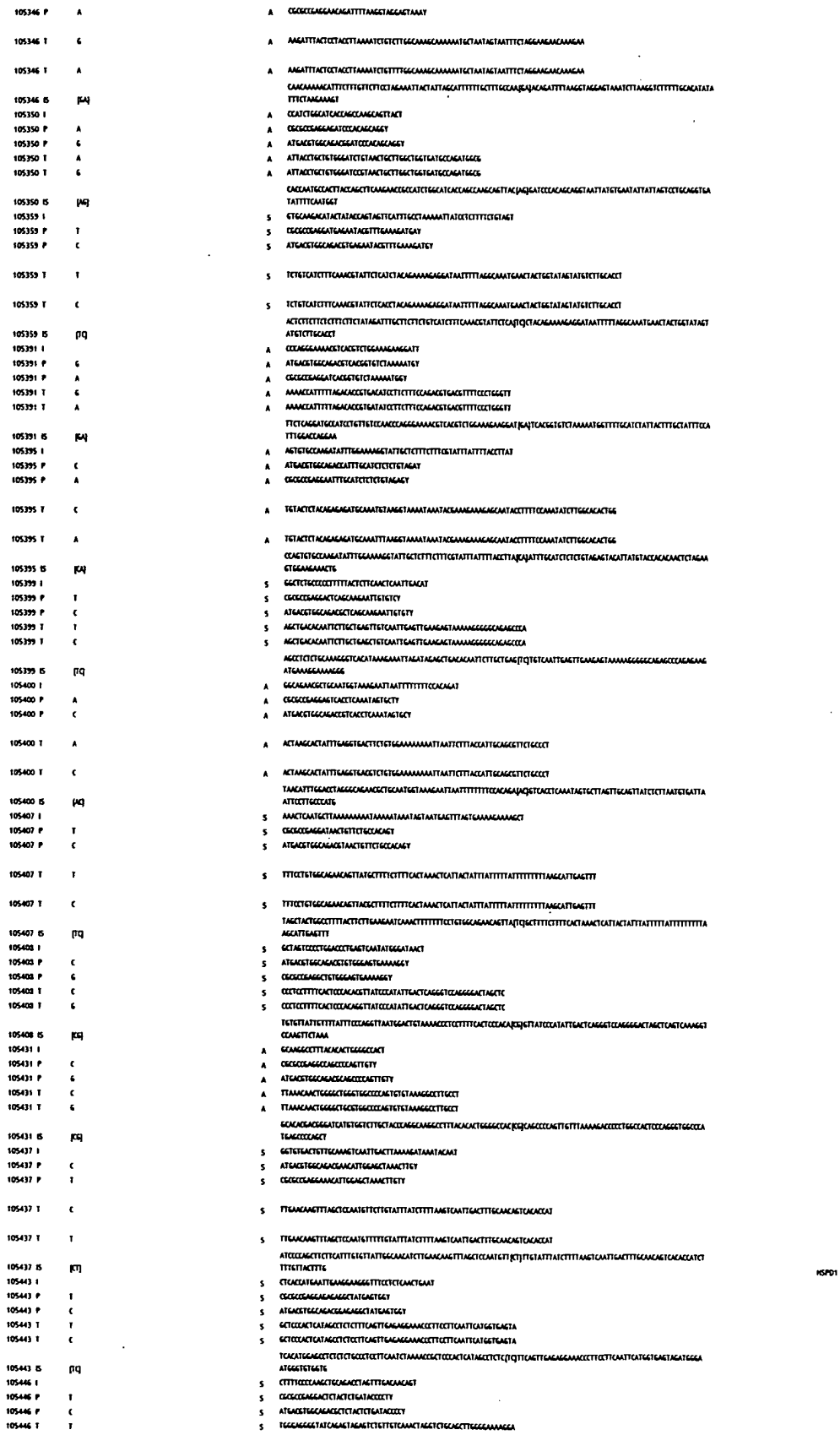


FIGURE 129C



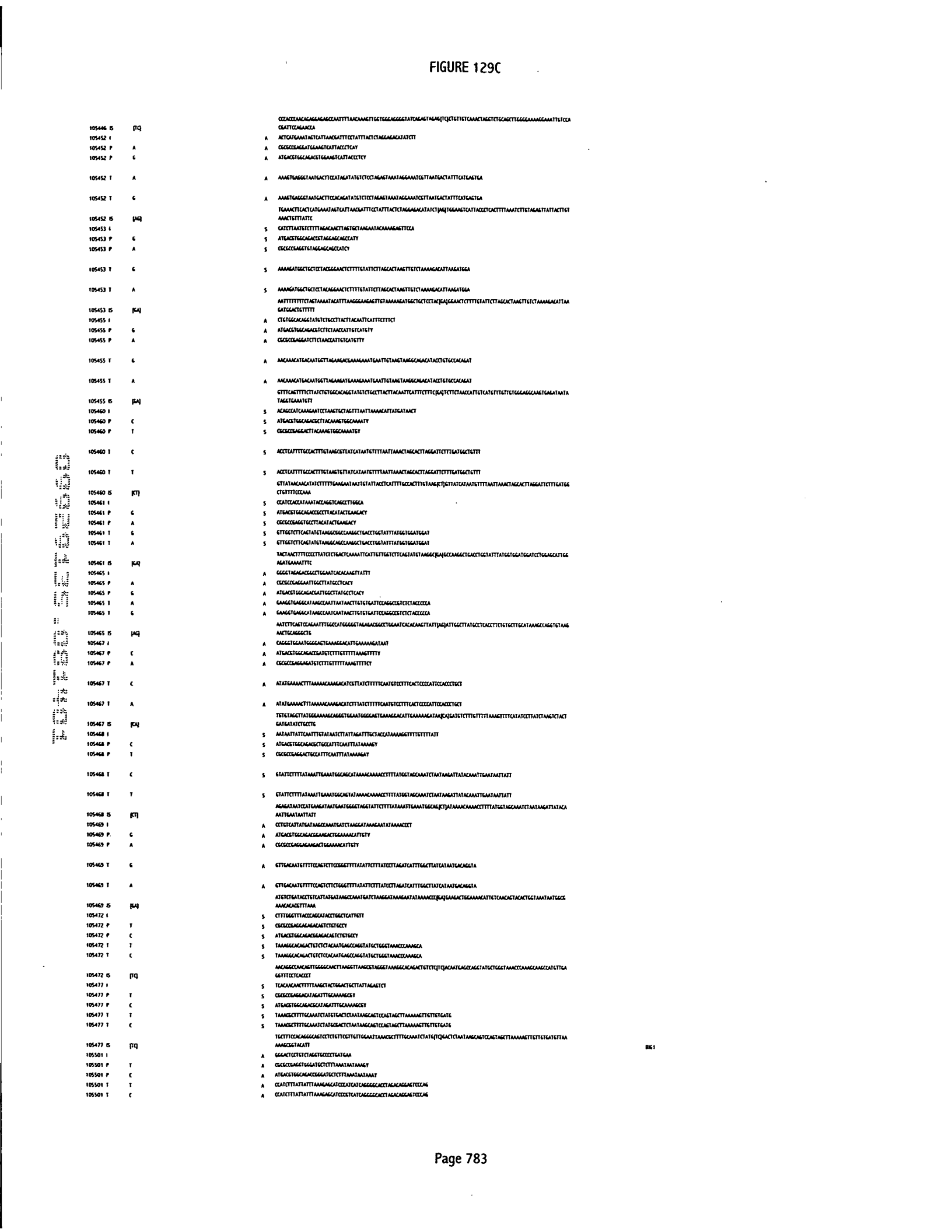
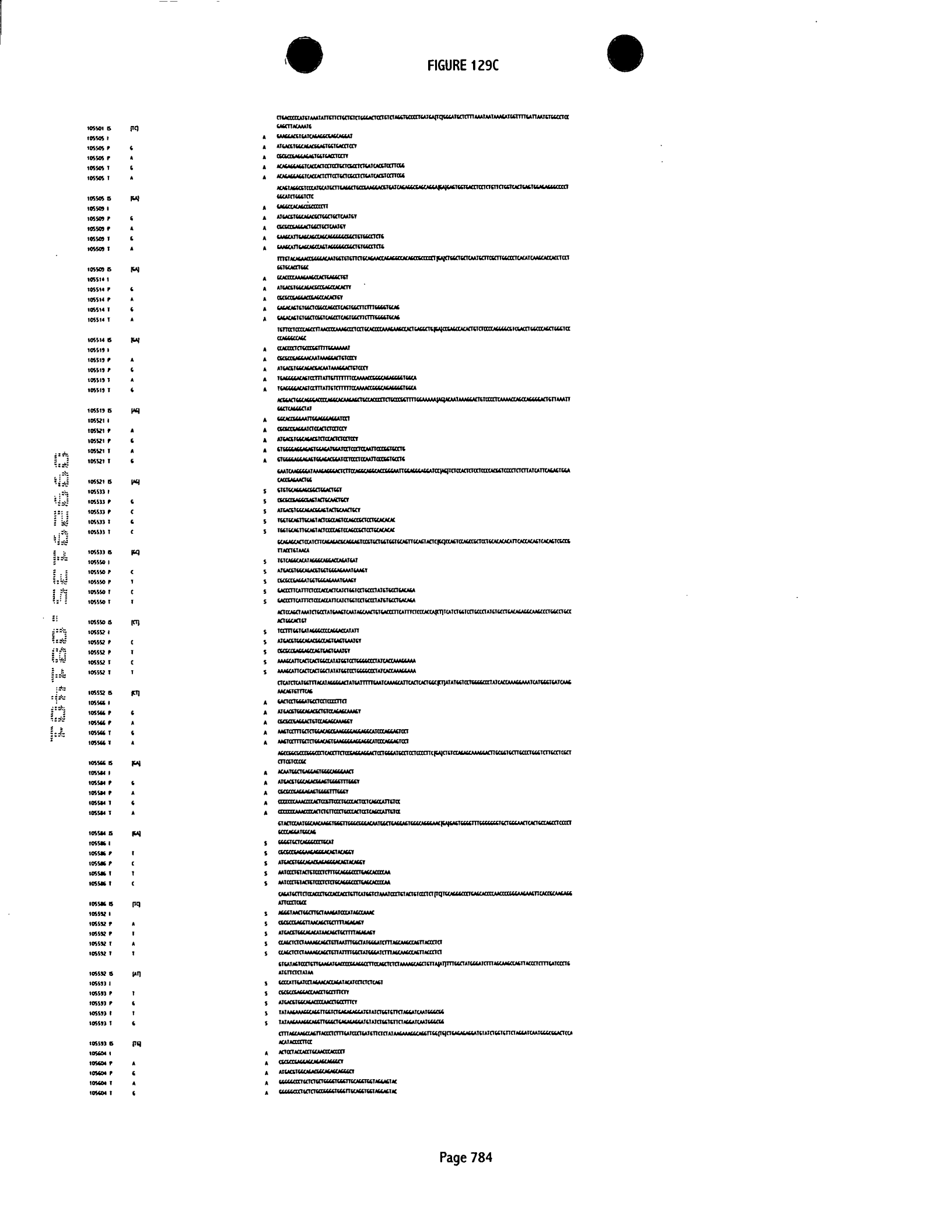
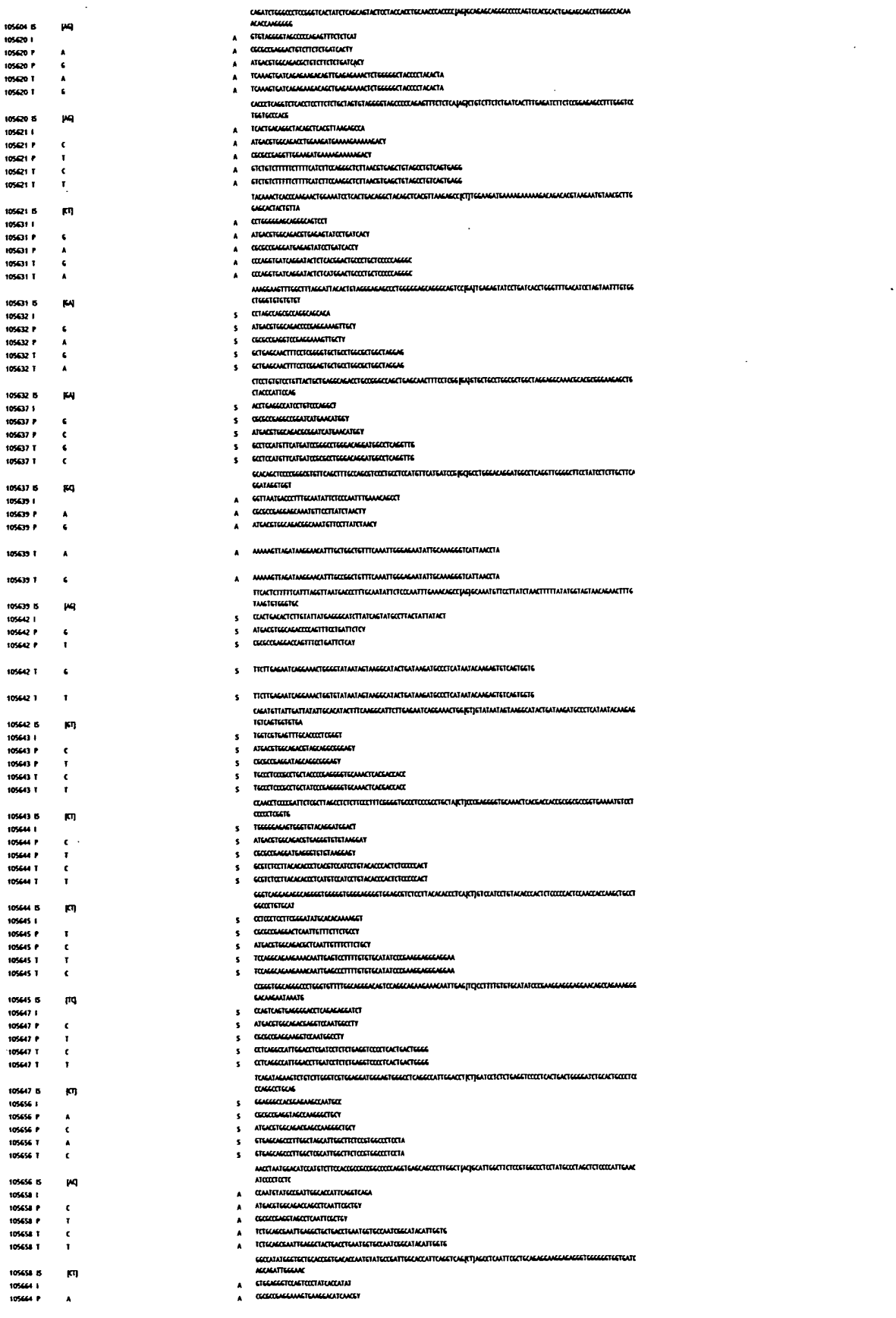


FIGURE 129C





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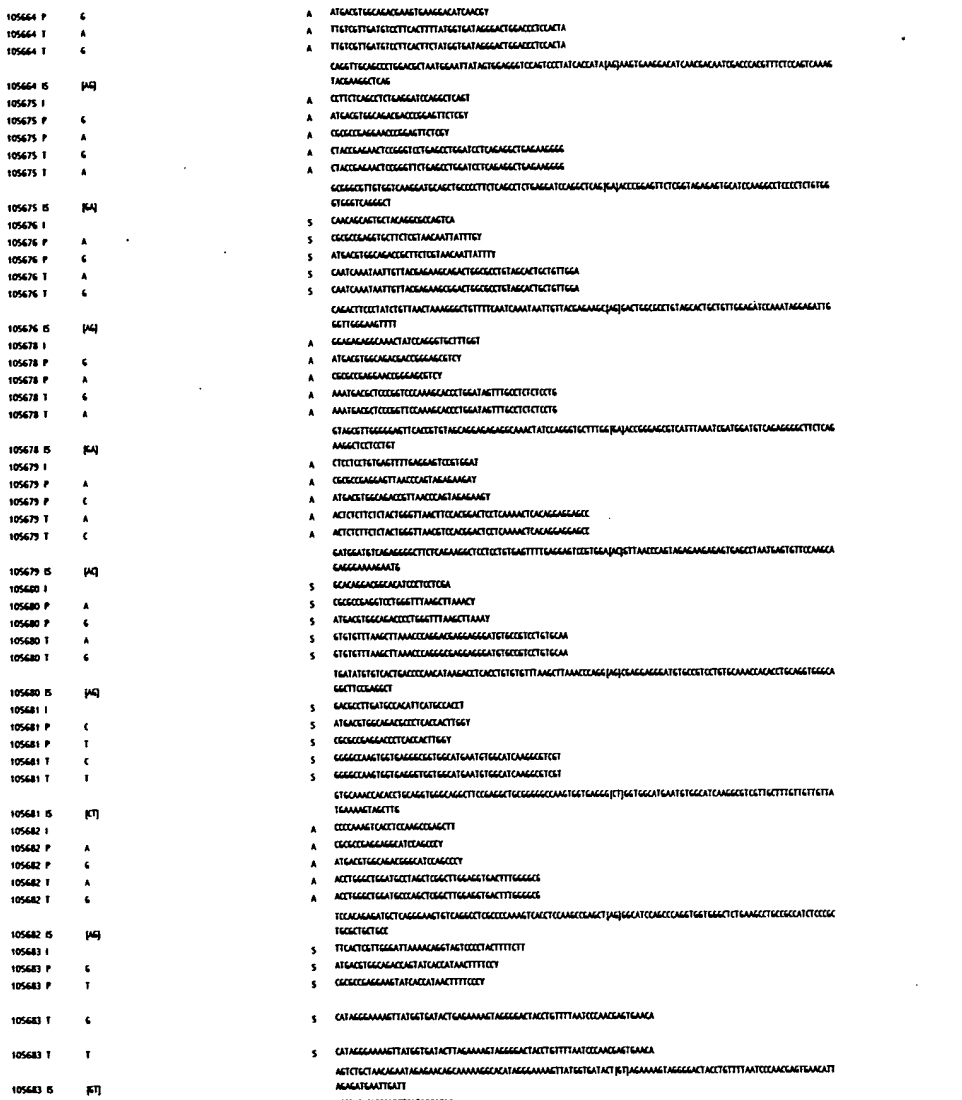


FIGURE 129C

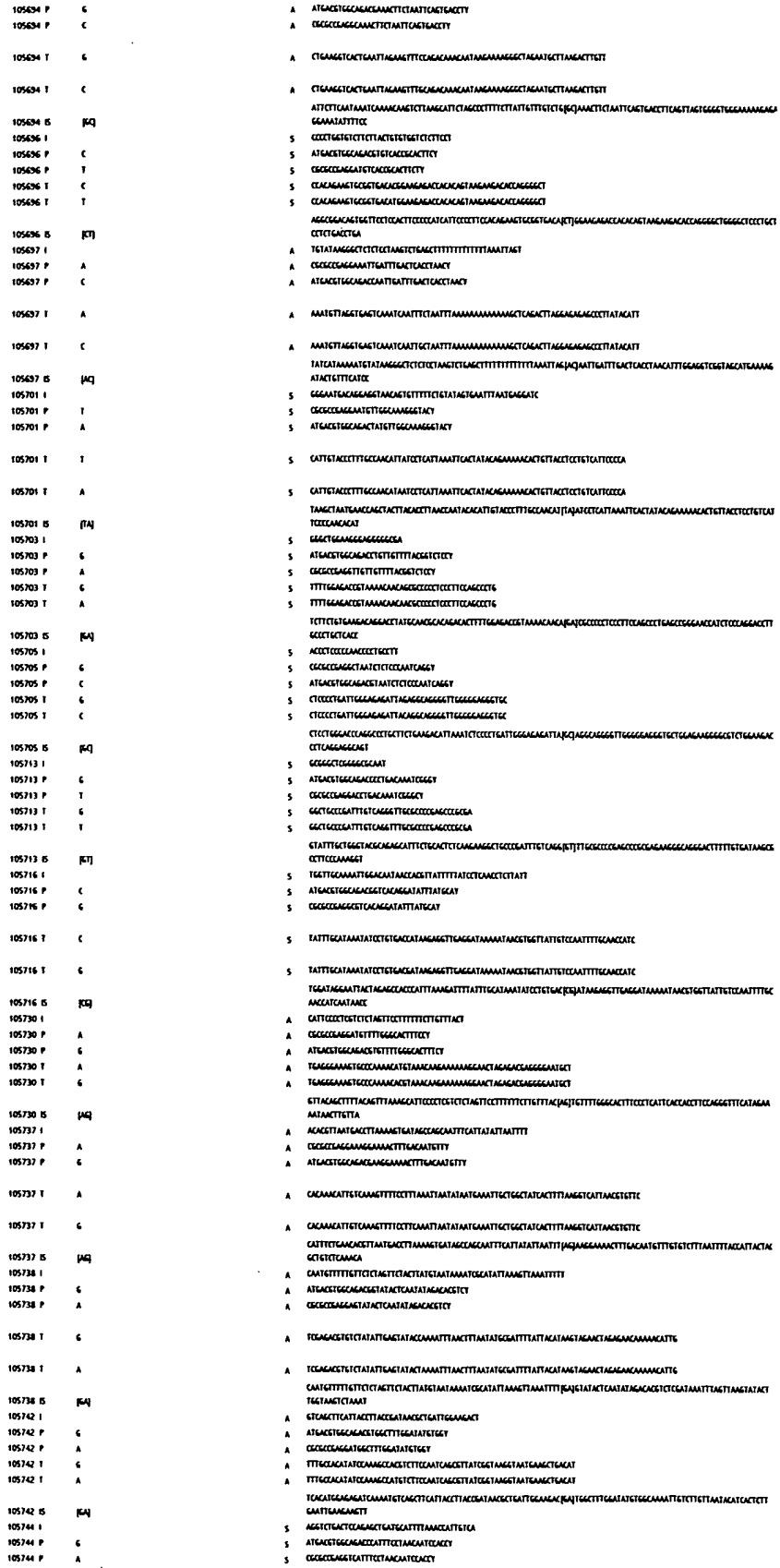


FIGURE 129C

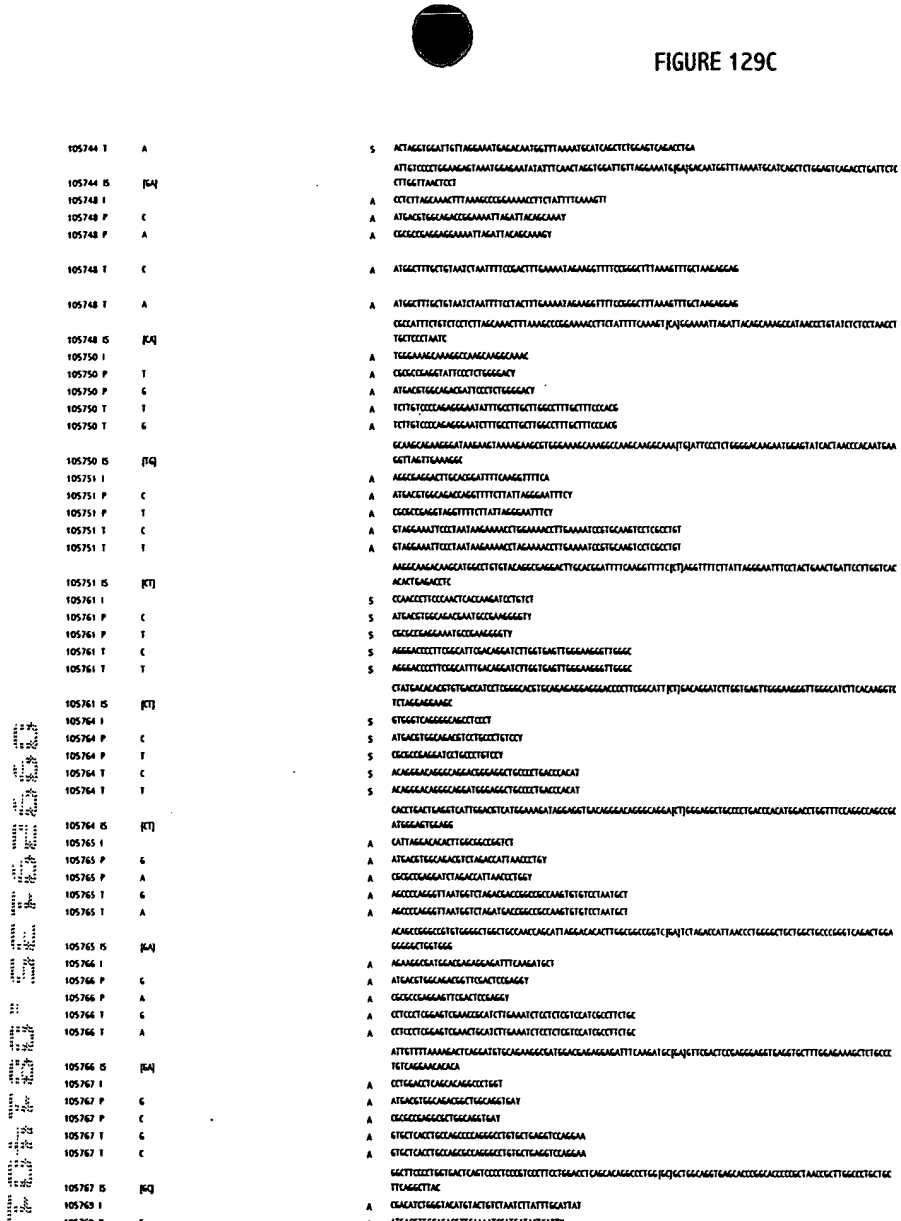




FIGURE 129C

105777 P T S CGCGCCGAGGACTTTTAATCCACATTTGTAGTAGY
105777 P C S ATGACGTGGCAGACGCTTTTAATCCACATTTGTAGTAT

105777 T T S AATCCTACTACAAATGTGGATTAAAGTATAACTCCTCAGAATAAAATCATAATTTATTCTTTTACATATAACTGGTCTGGCAAG

105777 T C S AATCCTACTACAAATGTGGATTAAAGCATAACTCCTCAGAATAAAATCATAATTTATTCTTTTACATATAACTGGTCTGGCAAG

105777 IS [TC] AACAATCTAGCCTGTGCTATTCTCTATTAAATAAATCCTACTACAAATGTGGATTAAAAG[TC]ATAACTCCTCAGAATAAAATCATAATTTATTCTTTTACATATAACTG GTCTGGCAAGCTA

105778 I S ATTTTCCTTAAATTTAAAAGAGCCCTTTTTATAGCATAATATTTTAAGTATTTCTCCTAGC

105778 P A S CGCGCCGAGGTCTTTGTTGTGTTTTAAATTCAGAY

105778 P C S ATGACGTGGCAGACGCTTTGTTGTGTTTTAAATTCAGY

105778 T A S GAAATCTGAATTTAAAACACAACAAAGACTAGGAGAAATACTTAAAATATTATGCTATAAAAAGGCCTCTTTTAAATTTAAGGAAAAT

105778 T C S GAAATCTGAATTTAAAACACAACAAAGCCTAGGAGAAATACTTAAAATATTATGCTATAAAAAGGCCTCTTTTAAATTTAAGGAAAAT

105778 IS [AC] TGTAGGATTAAAATAATAAGGTTACTCATCTCTGAAATCTGAATTTAAAACACAACAAAG[AC]CTAGGAGAAATACTTAAAATATTATGCTATAAAAAGGCCTCTTTTA AATTTAAGGAAAAT

105779 I A GTACTCTCCCTCCCACTCCTCTCTCAGACAGGAT

105779 P A A CGCGCCGAGGACGGAAAGGAAGAGGTY

105779 P G A ATGACGTGGCAGACGCGGAAAGGAAGAGGTY

105779 T A A ATTCACCTCTTCTTTTCCGTTCCTGTCTAGAGAGGAGTGGGAGGGAGAGTACCC

105779 T G A ATTCACCTCTTCTTTTCCGCTCCTGTCTAGAGAGGAGTGGGAGGGAGAGTACCC

105779 IS [AG] CTGGCCTTGCAGGCCTTCTCCTGCAGGGGTACTCTCCCTCCCACTCCTCTCTAGACAGGA[AG]CGGAAAGGAAGAGGTGAATCTGGGCTGTGAACAACAACAAAAAATT CTGAAACTCAGC

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105781 P C A CGCGCCGAGGCAGCAGTGGGCAAATAAY

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105783 T C S TTCCTCTCCCCCGGACGTCGTGGGCACGCGCCCGCACAGACT

105783 IS [TC] AGCAGGTTCTATGGCTCCCCCTACCAAGGGTAACTCTCTGGGTTTCCTCTCCCCCGACGT[TC]GTGGGCACGCGCCGCACAGACTTTCGCCCCTAGGCCGGTTCCCAGTCCA GCTCCGAAGCC

105788 I A GAGCATATGACAAACAGCACCATGTCACCAGGGT

105788 P A A CGCGCCGAGGACAGTAGGACACAGACCY

105788 P G A ATGACGTGGCAGACGCAGTAGGACACAGACCY

105788 T A A TTTAGGCTCTGTCCTACTGTCCCTGGTGACATGGTGCTGTTGTCATATGCTCAT

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105795 P G S ATGACGTGGCAGACCACAACAGAGGAAAAGAATGAY

105795 P A S CGCGCCGAGGTAGAACAGAGGAAAAGAATGACY

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105795 T A S ACAGGTCATTCTTTTCCTCTGTTCTAGGGCTGGAGGCTTCATCTTAGATGGAGACACTAAAACAG

105795 IS [GA] GTAAAATCATTCTTTGAAGTTTCTAAACAATCCTGAGAGGTCATTCTTTTCCTCTGTTCT[GA]GGGCTGGAGGCTTCATCTTAGATGGAGACACTAAAACAGCACCACCT GGAAAAATAAAGA

105796 I A TGGCTCAGACCCCACCCTGCCAA

105796 P T A CGCGCCGAGGTCTGCCCAATATCCCAGY

105796 P C A ATGACGTGGCAGACCCTGCCCAATATCCCAY

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105796 T C A ACTCCTGGGATATTGGGCAGGTGGCAGGGTGGGGTCTGAGCCATG

105796 IS [TC] TGACAGAAAGTTTCTGTGGATCGTCGCAATTCTCCCATGGCTCAGACCCACCCTGCCA[TC]CTCTGCCCAATATCCCAGGAGTCACTAGCCCTGGCACCTTAATTGAAGAC TCCAAGTAGAA

105798 I A GGCAGCTGCACCGCGTATCTCCAGAA

105798 P T A CGCGCCGAGGTATGAGCAGTCTGATCTCCY

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105804 I S TGGCACCGACCAAGCTGTCAGGGTC

105804 P C S ATGACGTGGCAGACGGTACGAAAGGAGAGGAY

105804 P A S CGCGCCGAAGTGTACGAAAAGGAGAGGAY

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105807 P G S ATGACGTGGCAGACCGCTGAGAGTTTACATGGY

105807 P A S CGCGCCGAGGTGCTGAAAGTTTACATGGY

105807 T G S AAAACCATGTAAACTCTCAGCGGCCCCCTTTGCTTCACTGCCTTTTCTAGGGAG

105807 T A S AAAACCATGTAAACTCTCAGCAGCCCCCTTTGCTTCACTGCCTTTTCTAGGGAG

105807 IS [GA] CAGGCCCGCTTTTTCCAAAGTTAAAAGCCTCTTTATATGAAAACATGTAAACTCTCAGC[GA]GCCCCCTTTGCTTCACTGCCTTTTCTAGGGAGTGCATTAGAGTCATTT TTACGTCTGTAG

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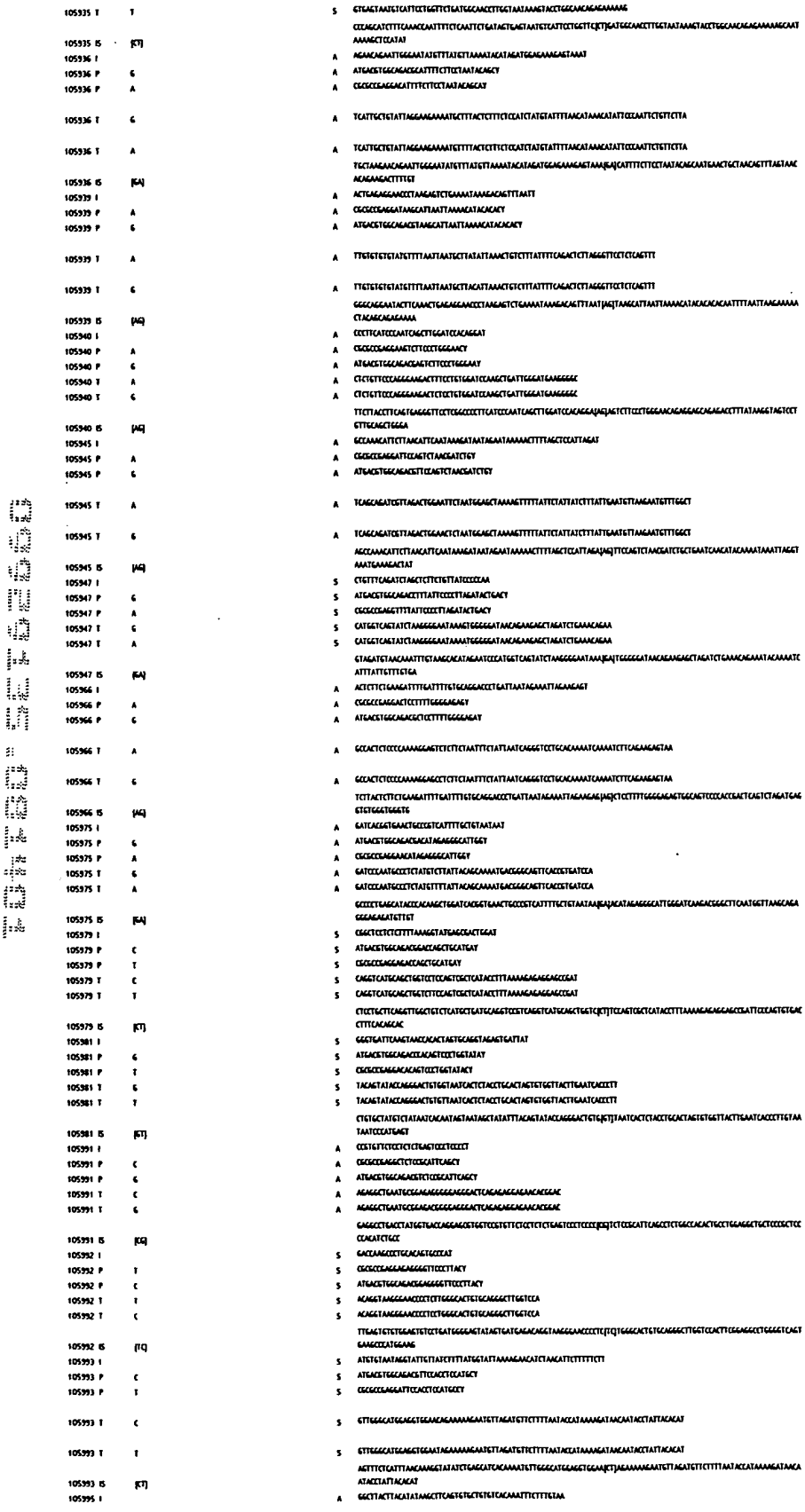
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105811 IS [CT] GAAAGTGACAAATGCTTTACTTCCTACAAAGAAACTTTGAGGCCCAGAAGAAAAAGGAGT[CT]GTTAGCTTGGTTTCAAGAGCCAGAAAAGTCATCTATGAGTAATAA CAGACTGGTCAGCA
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105817 P T A CGCGCCGAGGTGAGCCTACGTTTTCTCAY
105817 T C A TGGATGAGAAAAGCTAGGCTCGGAAAAATTCAGTGCCCCTGGAAGGACTCATACAGATCTAAGCC
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105834 I S CCAGGGTTAGGAAAAATCTTTGAAACCACTTATCTTGTA
105834 P A S CGCGCCGAGGTTATTTACTCCATAGCATTGGTY
105834 P G S ATGACGTGGCAGACCTATTTACTCCATAGCATTGGTY
105834 T A S AGTGACGAATGCTATGGAGTAAATAAACAAGATAAGTGGTTTCAAAGATTTTTCCTAACCCTGGCT
105834 T G S AGTGACGAATGCTATGGAGTAAATAGACAAGATAAGTGGTTTCAAAGATTTTTCCTAACCCTGGCT
105834 IS [AG] AAATTCACAGCAAGAAAAAGGGAAGGAATTTCTGAGAGTGACGAATGCTATGGAGTAAATA[AG]ACAAGATAAGTGGTTTCAAAGATTTTTCCTAACCCTGGCTACATA TCATGGTGGCTTCAT
105835 I S GGGCCAGGGCCAGGGGGATA
105835 P A S CGCGCCGAGGTGAGCGAGCAGGY
105835 P G S ATGACGTGGCAGACCGAGCCAGGCAGGY
105835 T A S AGGGCCTGCCTGGCTCAATCCCCCTGGCCCTGGCCCTC
105835 T G S AGGGCCTGCCTGGCTCGATCCCCCTGGCCCTGGCCCTC
105835 IS [AG] TGCCACCAAACCTCCCCAACAGCAAGATCTCGGGGCTGCTGCCCCAGGGCCTGCCTGACTC[AG]ATCCCCTGGCCCTGGCCCTCTCCAACTCGGGCCTGCCCACCCCCACGCC CTACTTCCCC FLI20321
105851 I S ACAGCAACTGTGGTGCTGCTGCAGCT
105851 P C S ATGACGTGGCAGACGAGGTCACTGACAGCTY
105851 P G S CGCGCCGAGGCAGGTCACTGACAGCTY
105851 T C S TTAGAGCTGTCAGTGACCTCGCTGCAGCAGCACCACAGTTGCTGTCA
105851 T G S TTAGAGCTGTCAGTGACCTGGCTGCAGCAGCACCACAGTTGCTGTCA
105851 IS [CG] GAGGTTTGCCCAGAAACAGGAAACAGATAATAAAGGGGCCATTAGAGCTGTCAGTGACCT[CG]GCTGCAGCAGCACCACAGTTGCTGTCAAAGTTTCAAATACGTTTTT TTTTTTTCAATAAA
105855 I A CCCAAGCTCACCAAAAGCTTCCATGACAGGGA
105855 P T A CGCGCCGAGGTTGGAGTTCAGGATCCTCT
105855 P C A ATGACGTGGCAGACCTGGAGTTCAGGATCCTY
105855 T T A AACAGAGGATCCTGAACTCCAACCCTGTCATGGAAGCTTTTGGTGAGCTTGGGCT
105855 T C A AACAGAGGATCCTGAACTCCAGCCCTGTCATGGAAGCTTTTGGTGAGCTTGGGCT
105855 IS [TC] AAATGGGACTGAGATACTGTGCAAAGGAGAGCCCAAGCTCACCAAAAGCTTCCATGACAGGG[TC]TGGAGTTCAGGATCCTCTGTTCTATCCTCTCTGCAATCTTGTGGCTC TCCCAAGATGCAG
105864 I A CCCATGGGTTTCTCGGGAAGATGGTAAAGGGAGT
105864 P G A ATGACGTGGCAGACGAAAGTGAGCAGAATTTTAACY
105864 P A A CGCGCCGAGGAAAGTGAGCAGAATTTTAACY
105864 T G A GATGGTTAAAATTCTGCTCACTTCCCTCCCTTTACCATCTCCCCAGAAACCCATGGGGC
105864 T A A GATGGTTAAAATTCTGCTCACTTCCTCCCTTTACCATCTCCCCAGAAACCCATGGGGC
105864 IS [GA] TGATTCTCAAAGTGGGTCCCACGGGGGCCCCATGGGTTTCTCGGGAAGATGGTAAAGGGAG[GA]GAAGTGAGCAGAATTTTAACCATCCCACCCATTCAGTCAGTCAATC AACAAACATTGCTT
105872 I S AACCCACGCATAACTTTCCTTTAACAGTACTGTAAAACTTAATTACT
105872 P G S ATGACGTGGCAGACCCTCTTCCTTTTGTCTGCY
105872 P T S CGCGCCGAGGACTCTTCCTTTTGTCTGCY
105872 T G S CTCTGCAGACAAAGGAAGAGGGTAATTAAGTTTACAGTACTGTTAAAGGAAAGTTATCCGTGGGTTCA
105872 T T S CTCTGCAGACAAAGGAAGAGTGTAATTAAGTTTACAGTACTGTTAAAGGAAAGTTATCCGTGGGTTCA
105872 IS [GT] AATTCCAAATTATCCAAATCTACTTCTAGTTCGAGTAAACTCTGCAGACAAAGGAAGAG[GT]GTAATTAAGTTTTACAGTACTGTTAAAGGAAAGTTATCCGTGGGTT CATGATTCAAAGTG
105888 I S CGCCTTCGATCGCAGTGAAGGCAGAGAGTAAGT
105888 P C S ATGACGTGGCAGACGAATTTCCAGTCCATCTGGY
105888 P G S CGCGCCGAGGCAATTTCCAGTCCATCTGGY
105888 T C S TTTACCAGATGGACTGGAAATTCCTTACTCTCTCCCTTCACTGCGATCGAAGCGCC
105888 T G S TTTACCAGATGGACTGGAAATTGCTTACTCTCTCCCTTCACTGCGATCGAAGCGCC
105888 IS [CG] GCAGAGTGAGTGAGAGGGAGGTCAGGGGAGTCAGAGCTTTACCAGATGGACTGGAAAATT[CG]CTTACTCTCTCCCTTCACTGCGATCGAAGGCGCCTGGCAAATCCAG GAGACAGCTCCGC
105893 I A TCTCAACTGAGTGTACCAACGTACATATGTCCACAGCTCT
105893 P A A CGCGCCGAGGAGTAGCCACTAAAACCACY
105893 P G A ATGACGTGGCAGACGGTAGCCACTAAAACCACY
105893 T A A CATCGTGGTTTTAGTGGCTACTGAGCTGTGGACATATGTACGTTGGTACACTCAGTTGAGACG
105893 T G A CATCGTGGTTTTAGTGGCTACCGAGCTGTGGACATATGTACGTTGGTACACTCAGTTGAGACG
105893 IS [AC] AAAGCTGATGATTAAAACAGCTCTCAACTGAGTGTACCAACGTACATATGTCCACAGCTC[AC]GTAGCCACTAAAACCACGATGCAGAGCAGACAAAGAAGTACCTTAA AACAGAGAGAAGCA
105896 I S CACAGCAGCAGTATGCTCTCTAGGTTTTGATACGAACTTTAGTTTTAAACAAT
105896 P C S ATGACGTGGCAGACGGTGCCAAACCTTTCCY
105896 P T S CGCGCCGAGGAGTGCCAAACCTTTCCY
105896 T C S GGAGGGAAAGGTTTGGCACCTTGTTTAAAACTAAAGTTCGTATCAAAACCTAGAGAGCATACTGTGCTGTGCT
105896 T T S GGAGGGAAAGGTTTGGCACTTTGTTTAAAACTAAAGTTCGTATCAAAACCTAGAGAGCATACTGTGCTGTGCT
105896 IS [CT] AAGTGTTTCTGCAATCTATTTTGTGATTTGTGGGCAGGAATGGAGGCAAAGGTTTGGCAC[CT]TTGTTTAAACTAAAGTTCGTATCAAAACCTAGAGAGCATACTCTG CTGTGCTTCTGCCA
105899 I A CATAGGTGAAGCTTCACACCATCAGTCTTTTTAACATTTTCCAT
105899 P G A ATGACGTGGCAGACAGAGGCTGGAAAAGTY
105899 P A A CGCGCCGAGGAAGAGGGCTGGAAAAGTY
105899 T G A GCAGACTTTTCCAGCCCTCTCTGGAAAATGTTAAAAAGACTGGATGGTGTGAAGCTTCACCTATGGA
105899 T A A GCAGACTTTTCCAGCCCTCTTTGGAAAATGTTAAAAAGACTGGATGGTGTGAAGCTTCACCTATGGA
105899 IS [GA] GCACTAAAAACCTTCCATAGGTGAAGCTTCACACCATCAGTCTTTTTAACATTTTCCA[GA]ACAAGGGCTGGAAAAGTCTGCTGAATAATTGAGGGGAGGGAGGGAGG GAATGGGGTGCTGG
105905 I A CCTGCACCTCTCGTGGGCTGAGTCTTTTTAGA



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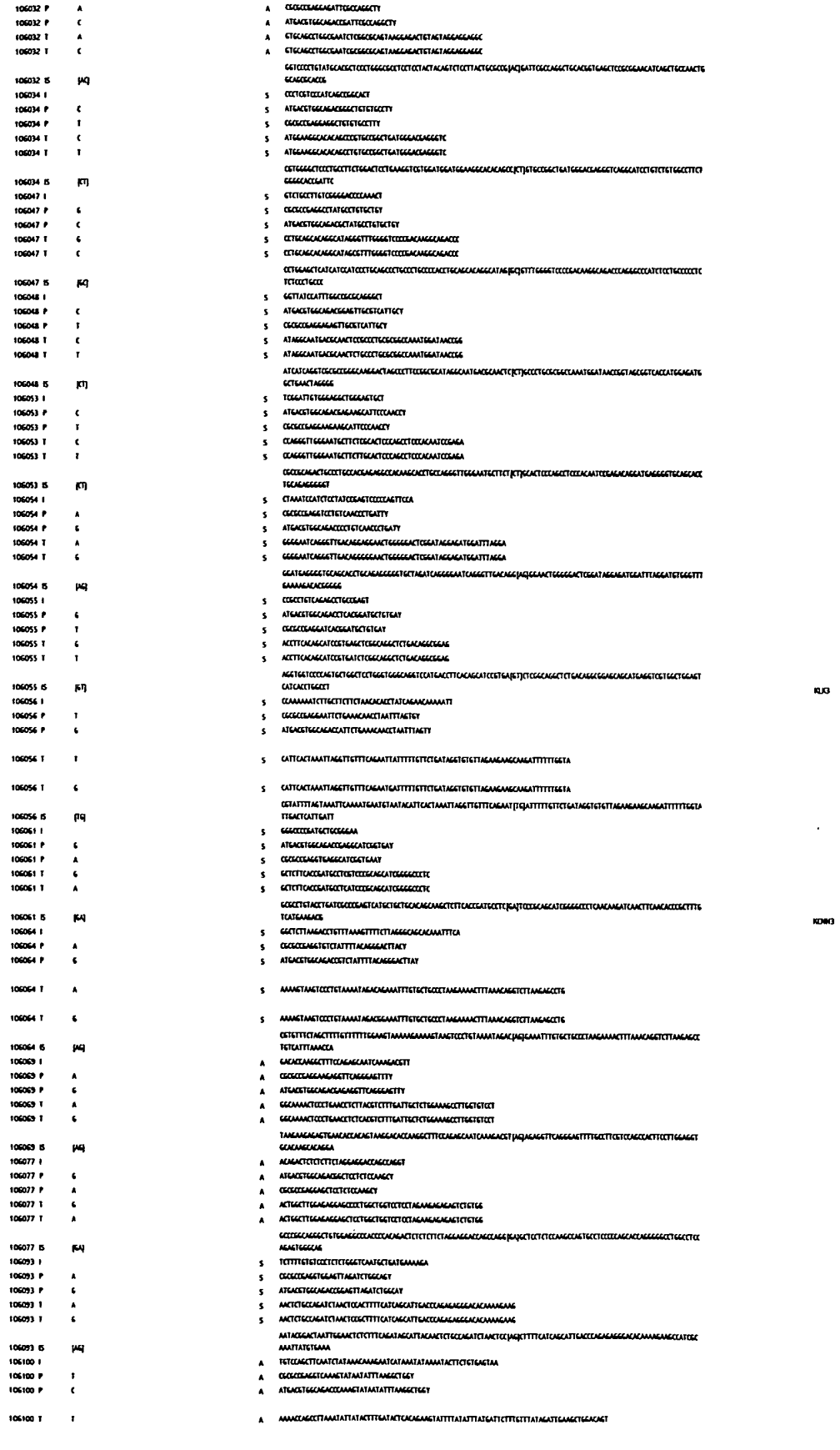
105905 P	C	A	ATGACGTGGCAGACCTTGATTAATATGAACGCGY		
105905 P	T	A	CGCGCCGAGGTGTTGATTAATATGAACGCGY		
105905 T	C	A	CCTCCGCGTTCATATTAATCAACGCTAAAAGACTCAGCCCACGAGAGGTGCAGGGT		
105905 T	T	A	CCTCCGCGTTCATATTAATCAACACTAAAAGACTCAGCCCACGAGAGGTGCAGGGT		
105905 IS	(CT)		TCTGACCTGCACAGCCCCAGTGCCGAGACCCTGCACCTCTCGTGGGCTGAGTCTTTTTAG[CT]GTTGATTAATATGAACGCGCAGGTCAGGCAGGGTGGATGGTCTGTGC TTGGAGACCTGAGG		
105907 I		A	CGTGTAGGTGGCGGGAAAGTCGATGGCT		
105907 P	A	A	CGCGCCGAGGATACGTCCACCCCTGY		
105907 P	G	A	ATGACGTGGCAGACGTACGTCCACCCCTGY		
105907 T	A	A	GTTTCAGGGGTGGAGCTATGCCATCGACTTTCCCGCCACCTACACGAA		
105907 T	G	A	GTTTCAGGGGTGGAGCTACGCCATCGACTTTCCCGCCACCTACACGAA		
105907 IS	(AG)		GCGCCGCACACAAGAATTCCACTTCTTGTCTTTCGTGTAGGTGGCGGGAAAGTCGATGGC[AG]TACGTCCACCCCTGAAACACCAAGGAAGGGGCTCTCAGGCTCTGCGG GCAAGGCATTTGA		
105912 I		S	CTGCCAGTCTGGGGCCTTCGTGTCT		
105912 P	T	S	CGCGCCGAGGATTCACGAACTTGATGAGCY		
105912 P	C	S	ATGACGTGGCAGACGTTCACGAACTTGATGAGCY		
105912 T	T	S	GGTTGCTCATCAAGTTCGTGAATGACACGAAGGCCCCAGACTGGCAGGG		
105912 T	C	S	GGTTGCTCATCAAGTTCGTGAACGACACGAAGGCCCCAGACTGGCAGGG		
105912 IS	(TC)		TCACAAGTCATTCCAGGCCCTCTCTTTGCTCCTTTGCAGGTTGCTCATCAAGTTCGTGAA[TC]CACACGAAGGCCCCAGACTGGCAGGGCTACTTCTACACCGTGCTGCTG TTTGTCACTGCC		
105916 I		A	AGAGTTCTGCTCAACTCTTTTTAGAAAAAGAAGCTCAGAA		
105916 P	C	A	ATGACGTGGCAGACCTTACACACATCCACTTTCTY		
105916 P	T	A	CGCGCCGAGGTTTACACACATCCACTTTCTTY		
105916 T	C	A	ATTTAAGAAAGTGGATGTGTGTAAGTCTGAGCTTCTTTTTCTAAAAAAGAGTTGAGCAGAACTCTGA		
105916 T	T	A	ATTTAAGAAAGTGGATGTGTGTAAATCTGAGCTTCTTTTTCTAAAAAAGAGTTGAGCAGAACTCTGA		
105916 IS	(CT)		CTATCTCATAATGATACATCAGAGTTCTGCTCAACTCTTTTTTAGAAAAAGAAGCTCAGA[CT]TTACACACATCCACTTTCTTAAATAAATAATTGTTCAATGAAAGTTA CCCTGGGAGGATT		
105918 I		A	GGATGTGAGTGTGCAGACCGAGCCCCT		
105918 P	G	A	ATGACGTGGCAGACGGGTGGGCATGGGY		
105918 P	A	A	CGCGCCGAGGAGGTGGGCATGGGY		
105918 T	G	A	TGGGCCCATGCCCACCCGGGGCTCGGTCTGCACACTCACATCCAG		
105918 T	A	A	TGGGCCCATGCCCACCTGGGGCTCGGTCTGCACACTCACATCCAG		
105918 IS	(GA)		AGGCAGTGGGCCAGTGGGCAGAGACCCTCAGACTGGATGTGAGTGTGCAGACCGAGCCCC[GA]GGTGGGCATGGGCCCAGGATCCCGAGGCAGACGCCCCAGCTGTGT TTTGTGCGTCCCA		
105919 I		A	AAGCAAACAGAACCCCCACCCGGGTAT		
105919 P	G	A	ATGACGTGGCAGACGTCTCTTCCTCCAAGAAACY		
105919 P	A	A	CGCGCTGAGGATCTCTTCCTCCAAGAAACY		
105919 T	G	A	ACAGGTTTCTTGGAGGAAGAGACTACCCGGGTCGGGGTTCTGTTTGCTTCA		
105919 T	A	A	ACAGGTTTCTTGGAGGAAGAGATTACCCGGGTCGGGGTTCTGTTTGCTTCA		
105919 IS	(GA)		AATGGGTTGACCAAAAGTTGCATCACAGCCTTTGAAGCAAACAGAACCCCCACCCGGGTA[GA]TCTCTTCCTCCAAGAAACCTGTGCCTTGCAAGCAGTTGTTTTTATGA GCTGAGATGGCTT		SLC18A1
105920 I		S	CAACACCGTGGCTGTTGAAGAAAGCGTACCTAT		
105920 P	C	S	ATGACGTGGCAGACGTGGAATAGCATGGATGAAY		
105920 P	G	S	CGCGCCGAGGCTGGAATAGCATGGATGAATY		
105920 T	C	S	TGTCATTCATCCATGCTATTCCACTAGGTACGCTTTCTTCAACAGCCACGGTGTTGTT		
105920 T	G	S	TGTCATTCATCCATGCTATTCCAGTAGGTACGCTTTCTTCAACAGCCACGGTGTTGTT		
105920 IS	(CG)		ATGGCTTCAGTGGCTGCAGGTGGGATGGTGCTGGCAGTGTCATTCATCCATGCTATTCCA[CG]TAGGTACGCTTTCTTCAACAGCCACGGTGTTGTTGTTGAAGAAGAA GAAGATGGTGGAAA		SLC18A1
105922 I		A	CAACCGCTGGGGAGCATCCAGAATGGC		
105922 P	T	A	CGCGCCGAGGTCCGGAGCATGGTGY		
105922 P	G	A	ATGACGTGGCAGACGCCGGAAGCATGGTY		
105922 T	T	A	CCATCACCATGCTCCGGACCATTCTGGATGCTCCCCAGCGGTTGCT		
105922 T	G	A	CCATCACCATGCTCCGGACCATTCTGGATGCTCCCCAGCGGTTGCT		
105922 IS	(TG)		GCACCAGCTGCCGGGACGCTCTCCCCTCCTTCAGCAACCGCTGGGCAGCATCCAGAATGG[TG]CCGGAGCATGGTGATGGCCGGACTGGGGCAGTCTTCCCCTGCGGCTC TTAGGGAAGGTC		SLC18A1
105924 I		S	CGACCCATCTTGTTGGCCAACACAACAAAT		
105924 P	C	S	ATGACGTGGCAGACCAGGTTGGTGCCAATGT		
105924 P	T	S	CGCGCCCAGGAAAGTTGGTGCCAATGY		
105924 T	C	S	ACCTCATTGGCACCAACCTCTTTGGTGTGTTGGCCAACAAGATGGGTCGGT		
105924 T	T	S	ACCTCATTGGCACCAACCTTTTTGGTGTGTTGGCCAACAAGATGGGTCGGT		
105924 IS	(CT)		TCCTTCCACAGCTCTAGCTTTCTTGCCTGCCAGTGTGTCTACCTCATTGGCACCAACCT[CT]TTTGGTGTGTTGGCCAACAAGATGGGTCGGTATGTAGCCTCGGGATCT GGGACGAACAGT		
105925 I		A	GGCCAACAAGATGGGTCGGTATGTAGCCTCT		
105925 P	G	A	ATGACGTGGCAGACGGGATCTGGGACGAAY		
105925 P	A	A	CGCGCCGAGGAGGATCTGGGACGAACY		
105925 T	G	A	TACTGTTCGTCCCAGATCCCCAGGCTACATACCGACCATCTTGTTGGCCAA		
105925 T	A	A	TACTGTTCGTCCCAGATCCTGAGGCTACATACCGACCATCTTGTTGGCCAA		
105925 IS	(GA)		CCTCATTGGCACCAACCTCTTTGGTGTGTTGGCCAACAAGATGGGTCGGTATGTAGCCTC[GA]GGATCTGGGACGAACAGTACAAATGTAAGATGGAAGAGCGCCCGTT CCTGATCTTGAAT		
105927 I		S	AGGACTGGGTGGTAAAAGTTGGCAAGTATTTGGGAAT		
105927 P	C	S	ATGACGTGGCAGACGGTCAAGTTTAGTTTAATCATTCGY		
105927 P	T	S	CGCGCCGAGGAGTCAAGTTTAGTTTAATCATTCGY		
105927 T	C	S	TAGTCGAATGATTAAACTAAACTTGACTTTCCCAAATACTTGCCAACTTTTACCACCCAGTCCTTG		
105927 T	T	S	TAGTCGAATGATTAAACTAAACTTGACTTTCCCAAATACTTGCCAACTTTTACCACCCAGTCCTTG		
105927 IS	(CT)		GCTATTTCTAATTCCCTTTAAGTGCTTTTGTTTTAGTCGAATGATTAAACTAAACTTGAC[CT]TTCCCAAATACTTGCCAACTTTTACCACCCAGTCCTTGTTATTTTTAA TGTTGCAGAACA		
105931 I		A	CGAACCCCCGCCGGGAACCT		
105931 P	G	A	ATGACGTGGCAGACGGGCTCCGGAAAY		
105931 P	C	A	CGCGCCGAGGCGGGCTCCGGAAAY		
105931 T	G	A	GAAGTTTCCGGAGCCCCGGTCCCGCCGCGGGTTCGCG		
105931 T	C	A	GAAGTTTCCGGAGCCCGGGTCCCGCCGCGGGTTCGCG		
105931 IS	(GC)		CGCAGCGGCCGCCGACTCCAGGAAGCAGCGCAGCACAAGCGCCAACCCGCGGCCGGACT[GC]GGGCTCCGGAAACTTGCAGAACCCCGGAAGCCCAAGCCGCGCGCG TGGCTCGCAATC		
105933 I		A	GAAGCAGGAGATAGACACAGATAGGTAAGTCTGGAGACA		
105933 P	C	A	ATGACGTGGCAGACCTTGAAAGAAAGGAGTTTAGGY		
105933 P	T	A	CGCGCCGAGGTTGAAAGAAAGGAGTTTAGGY		
105933 T	C	A	AAAACCTAAACTCCTTTCTTTCAAGGTCTCAGACTTACCTATCTGGTCTTATCTCCTCGCTTCCT		
105933 T	T	A	AAAACCTAAACTCCTTTCTTTCAAGGTCTCCAGACTTACCTATCTGGTCTTATCTCCTCGCTTCCT		
105933 IS	(CT)		CTGCAAAAGAGCTTAGAACAGAAGGCAGCAGAATAAGACCAGATAGGTAAGTCTGGAGAC[CT]TTGAAAGAAAGGAGTTTAGGTTTTACCTATACAGATGAGGAAC CACAAAACCATTTTA		
105935 I		S	TTTTCTCTGTTGCCAGGTACTTTATTACCAAGGTTGCCATCT		
105935 P	C	S	ATGACGTGGCAGACGAACCAGGAATGACATTAY		
105935 P	T	S	CGCGCCGAGGAGAACCAGGAATGACATTACY		
105935 T	C	S	GTGAGTAATGTCATTCCTGGTTCCGATGGCAACCTTGGTAATAAAGTACCTGGCAACAGAGAAAAAG		

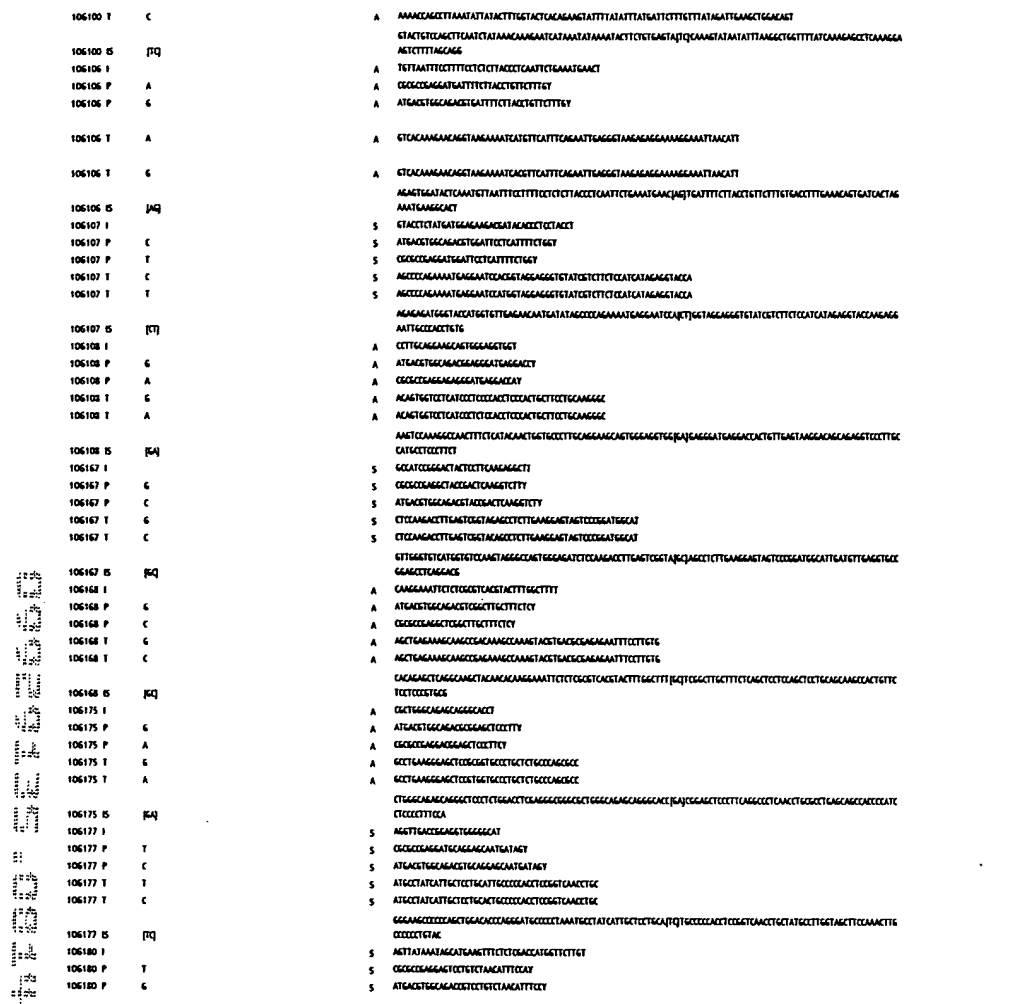
FIGURE 129C



105995 P	C	A	ATGACGTGGCAGACCGCCTCTTGGGCTAY	
105995 P	T	A	CGCGCCGAGGTGCCTCTTGGGCTACY	
105995 T	C	A	CACGGTAGCCCAAGAGGCCTACAAAGAAATTTGTGACACAGCACACTGAAGCTTATATGTAAGTAAGCCAA	
105995 T	T	A	CACGGTAGCCCAAGAGGCCATACAAAGAAATTTGTGACACAGCACACTGAAGCTTATATGTAAGTAAGCCAA	
105995 IS	(CT)		GTAATAGCTTGGCTTACTTACATATAAGCTTCAGTGTGCTGTGTCACAAATTTCTTTGTAJCTJGCCTCTTGGGCTACCGTGGTTTTCTTTAAATAGTCCTATTCAGCCTTG TCAGATATTTCA	
105996 I		S	GGTCCAGACAATGCCATTTTGGCATGTGAATAGAGAACATT	
105996 P	C	S	ATGACGTGGCAGACAGCCTCTATTCCAGCAY	
105996 P	T	S	CGCGCCGAGGAAGCCTCTATTCCAGCAY	
105996 T	C	S	AATGTGCTGGAATAGAGGCTCATGTTCTCTATTCACATGCCAAAATGGCATTGTCTGGACCAA	
105996 T	T	S	AATGTGCTGGAATAGAGGCTTATGTTCTCTATTCACATGCCAAAATGGCATTGTCTGGACCAA	
105996 IS	(CT)		CTGTCACACTACCCTGCCACTACAGTGGAGCTGTCACATCAATGTGCTGGAATAGAGGCTJCTJATGTTCTCTATTCACATGCCAAAATGGCATTGTCTGGACCAATGGAA CCCACGTCACCTA	HAVCR-1
105998 I		A	TGCAAATGTGGATTAGGCACACACAAACTCTAAGTCTTTATTGAATGTAA	
105998 P	C	A	ATGACGTGGCAGACCGAATTGCAAGGCAAGAAY	
105998 P	T	A	CGCGCCGAGGTGAATTGCAAGGCAAGAACY	
105998 T	C	A	AGTTGTCTCTTCCCTTCCAATTCGTACATTCAATAAAGACTTAGAGTTTGTGTGTGCTAATCCACATTTGCAGG	
105998 T	T	A	AGTTGTCTCTTCCCTTCCAATTCATACATTCAATAAAGACTTAGAGTTTGTGTGTGCCTAATCCACATTTGCAGG	
105998 IS	(CT)		GTTCATTTTCCTGCAAATGTGGATTAGGCACACACAAACTCTAAGTCTTTATTGAATGTAJCTJGAATTGCAAGGCAAGAACAACTAGGGCTGGTGCAGTGGCTATATCC TCCTGTGTGCTGGG	
106008 I		S	CTATGAGCAGCTGGCCAAGCACCCSAT	
106008 P	C	S	ATGACCTGGCAGACGCGTGGGTGAGTGGY	
106008 P	T	S	CGCGCCGAGGACGTGGGTGAGTGGY	
106008 T	C	S	CTCGCCACTCACCCAGGTCGGGTCCTTGGCCAGCTCCTCATAGGA	
106008 T	T	S	CTCGCCACTCACCCAGGTTCGGGTCCTTGGCCAGCTCCTCATAGGA	
106008 IS	(CT)		AGGGGCACCACTCTCAGGGGCGGCGGCCAGCACCCCCATCGCCCTCGCCACTCACCCACGJCTJTCGGGTCCTTGGCCAGCTCCTCATAGGAGCCGTAGGCCTTGGGGATGTC GTGTTTCTGTG	
106015 I		A	TGTAAAGGCTTGAAATGGTTCCTGCTGCTAACACATAATGAATT	
106015 P	A	A	CGCGCCGAGGATAATGGGCATTTGTTTGCY	
106015 P	G	A	ATGACGTGGCAGACGTAATGGGCATTTGTTTGCY	
106015 T	A	A	GTTTGCAAACAAATGCCCATTATATTCATTATGTGTTAAGCAGCAGGAACATTTCAAGCCTTTACACA	
106015 T	G	A	GTTTGCAAACAAATGCCCATTACATTCATTATGTGTTAAGCAGCAGGAACATTTCAAGCCTTTACACA	
106015 IS	(AG)		CATCTCATATTGATTGTGTAAAGGCTTGAAATGGTTCCTGCTGCTAACACATAATGAATJAGJTAATGGGCATTTGTTTGCAAACTCTAAACCCCAGTGCCTTCTTACTG GATTAAAGTTGTA	
106017 I		A	GCTACATAAGACAAAGGCCTTGCTAGCCTACTGCT	
106017 P	C	A	CGCGCCGAGGCCATCTGACCACTTCAGY	
106017 P	G	A	ATGACGTGGCAGACGCATCTGACCACTTCAGY	
106017 T	C	A	CCTGCTGAAGTGGTCAGATGGGCAGTAGGCTAGCAAGGCCTTTGTCTTATGTAGCCT	
106017 T	G	A	CCTGCTGAAGTGGTCAGATGCGCAGTAGGCTAGCAAGGCCTTTGTCTTATGTAGCCT	
106017 IS	(CG)		GTAGAGGTTCTGCAACACCCGTTGCAAGCCTACATAAGACAAAGGCCTTGCTAGCCTACTGCJCGJCATCTGACCACTTCAGCAGGTGCCCTCATGATCAGGACTGGGCCAGT CTCCACTGGCAGA	
106021 I		A	ACCTCACACACTATCTTGAGAGTTTTGGTAATAGTCTATAAAAGTTACT	
106021 P	A	A	CGCGCCGAGGATAAAATGAGGAGAAAGTTACTCTY	
106021 P	G	A	ATGACGTGGCAGACGTAAAATGAGGAGAAAGTTACTCTY	
106021 T	A	A	TGGAAGAGTAACTTTCTCCTCATTTTATGTAACTTTTATAGACTATTACCAAAACTCTCAAGATAGTGTGTGAGGTCT	
106021 T	G	A	TGGAAGAGTAACTTTCTCCTCATTTTACGTAACTTTTATAGACTATTACCAAAACTCTCAAGATAGTGTGTGAGGTCT	
106021 IS	(AG)		TCACATGATAAGACCTCACACACTATCTTGAGAGTTTTGGTAATAGTCTATAAAAGTTACJAGTTAAAATGAGGAGAAAGTTACTCTTCCAGGCAATATTCCTGAGATCC ATTTAGATACAAGA	
106024 I		S	AGAACTGACCCCAAACTGACAAAGGGAAGGTCAT	
106024 P	C	S	ATGACGTGGCAGACGTGCCAGCCTTTGTGY	
106024 P	T	S	CGCGCCGAGGATGCCAGCCTTTGTGY	
106024 T	C	S	CCTTCACAAAGCCTGGCACTGACCTTCCTTTGTCAGTTTGGGGTCAGTTCTAT	
106024 T	T	S	CCTTCACAAAGCCTGGCATTGACCTTCCTTTGTCAGTTTGGGGTCAGTTCTAT	
106024 IS	(CT)		ACCCTCCTGAAGGGAGCAGGAAATTCAGGCCAACCAGGAAGCCTTCACAAAGCCTGGCAJCTJTGACCTTCCTTTGTCAGTTTGGGGTCAGTTCTATCTGGGCGAAGGT CTCAGACTGATCG	
106025 I		A	GTTGATGTCCCAAATGTCTGACTCCCAAGGCAA	
106025 P	T	A	CGCGCCGAGGTCAAATCCAAATCAAAATCAAGAY	
106025 P	C	A	ATGACGTGGCAGACCCAAATCAAAATCAAGAY	
106025 T	T	A	ATAATCTTGATTTTGATTTGGATTTGATGCTTGGGAGTCAGACATTTGGGACATCAACAA	
106025 T	C	A	ATAATCTTGATTTTGATTTGGATTTGATGCCTTGGGAGTCAGACATTTGGGACATCAACAA	
106025 IS	(TC)		ACACATAATTACCTGTACAGATTTGGTTGTTGATGTCCCAAATGTCTGACTCCCAAGGCAJTCJCAAATCCAAATCAAAATCAAGATTATCAAAATTGTTTTCCTGTAGGT TTCAAATCAGCAA	
106026 I		A	GCTTCCAATTGCAGCTCATCAGTGTCTGTGAAATAACCT	
106026 P	A	A	CGCGCCGAGGAAGTTCAGCAAAGAGAGCY	
106026 P	G	A	ATGACGTGGCAGACAGCAGTTCAGCAAAGAGAGCY	
106026 T	A	A	TTCTGCTCTCTTTGCTGAACTTGGTTATTTCAGAGACACTGATGAGCTGCAATTGGAAGCAG	
106026 T	G	A	TTCTGCTCTCTTTGCTGAACTGGGTTATTTCAGAGACACTGATGAGCTGCAATTGGAAGCAG	
106026 IS	(AG)		ACTTACATAGGTCTCATTTGCTGCTTCCAATTGCAGCTCATCAGTGTCTGTGAAATAACCJAGJAGTTCAGCAAAGAGAGCAGAATCTTGGACAAAGGAAAAGAATAGAA ATGAACTGTCAATT	
106029 I		S	TGAGTTCCTACCAAAAATGCACATTTCCAGTCCCTCAT	
106029 P	C	S	ATGACGTGGCAGACAGCCTTTCTCCTTCGACY	
106029 P	T	S	CGCGCCGAGGAACCTTTCTCCTTCGACCY	
106029 T	C	S	AGAAGGTCAAGCAGAAAGGCTGAGGAACTGCAAATGTGCATTTTTGGTAGGAACTCAGA	
106029 T	T	S	AGAAGGTCAAGCAGAAAGGTTGAGGAACTGCAAATGTGCATTTTTGGTAGGAACTCAGA	
106029 IS	(CT)		TGGCTTCCCGGAACCTGGCCAGGAAGATCCACAGGCACACAACAAGGTCGAAGGACAAAGCJCTJTCAGCCACTGCAAATGTGCATTTTTGGTAGGAACTCAGAATTCCTG CCCCTTTGAAAAA	
106030 I		S	GGTGTTGGGCAGCTTATTCTTTCTTGATAATGATATGGGCAAGT	
106030 P	T	S	CGCGCCGAGGAGCCCAGTAGTCTCTGY	
106030 P	C	S	ATGACGTGGCAGACGCCCAGTAGTCTCTGY	
106030 T	T	S	GTTGCAGAGACTACTGGGCCCTTGCCCATATCATTATCAAGAAAGAATAAGCTGCCCAACACCAC	
106030 T	C	S	GTTGCAGAGACTACTGGGCCCTTGCCCATATCATTATCAAGAAAGAATAAGCTGCCCAACACCAC	
106030 IS	(TC)		CTGAAGATATCAAATGGACAAAACAGACAAAGGAAACATGAGTTGCAGAGACTACTGGGCJCTJCTTGCCCATATCATTATCAAGAAAGAATAAGCTGCCCAACACCACA GATATTCTTGCAAG	
106031 I		S	GAGGACTGCCTAGTGCCCCTGCATCTGA	
106031 P	G	S	ATGACGTGGCAGACGCSCTTATACCCGGCTY	
106031 P	A	S	CGCGCCGAGGTGCTTATACCCGGCTGY	
106031 T	G	S	TAGCCAGCCGGCTATAAGCCACATGCAGGGGCACTAGGCAGTCCTCAG	
106031 T	A	S	TAGCCAGCCGGCTATAAGCACAGATGCAGGGGCACTAGGCAGTCCTCAG	
106031 IS	(GA)		AGCTCCTTGAAGCCCCAGAACCCGGTGAGACACACCCGCCTAGCCAGCCGGCTATAAGCJGAJCAGATGCAGGGGCACTAGGCAGTCCTCAGGCTCAAGTACTACTATT CCCCCTTCCTGAA	
106032 I		A	CTCCTCCTACTACAGTCTCCTTACTGCGCCGT	

FIGURE 129C







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106188 P    G    A    ATGACGTGGCAGACGTTCTCACCATCTCGTATCY
106188 P    A    A    CGCGCCGAGGATCTCTACCATCTCGTATCAY

106188 T    G    A    CTGTGTGATACCAGATGGTGAGAACATTATAAAGAATGCTGAGTTTCAACCCTGACACATAATTAGTTCTAGTC

106188 T    A    A    CTTGTGATACGAGATGGTGAGAATATTATAAAGAATGCTGAGTTTCAACCCTGACACATAATTAGTTCTAGTC

106188 IS   [GA]      TGATGATAATGGACTAGAACTAATTATGTGTCAGGGTTGAAACTCAGCATTCTTTATAATJGAJTTCTACCATCTCGTATCACAAGGCTATCATAGGCACACGTTCGGTG
                      AGATTCAATGTCC
106189 I             A    GAGATAAGCATATTGAGATGCTTTAAAAAAAATAAAATCAAAACAAAACATAAAAGCTTGT
106189 P    C        A    CGCGCCGAGGCTCTACATAATGCTTTGGCAY
106189 P    G        A    ATGACGTGGCAGACGTCTACATAATGCTTTGGCAY

106189 T    C        A    TTTTTGCCAAAGCATTATGTAGAGCAAGCTTTTATGTTTTGTTTTGATTTTATTTTTTTTAAAGCATCTCAATATGCTTATCTC

106189 T    G        A    TTTTTGCCAAAGCATTATGTAGAGCAAGCTTTTATGTTTTGTTTTGATTTTATTTTTTTTAAAGCATCTCAATATGCTTATCTC

                      GAGATAAGCATATTGAGATGCTTTAAAAAAAATAAAATCAAAACAAAACATAAAAGCTTGJCGTCTCATAATGCTTTGGCAAAAAAAAAAAAAAAAAAAAGCATCATTA
                      TCTCTTGATGCCATT
106189 IS   [CG]
106194 I             A    TGTGATACTGCATTACCTACACAATAATATTACCTACCCTCATTT
106194 P    G        A    ATGACGTGGCAGACGATTTCCTTACAACTCTGCAY
106194 P    C        A    CGCGCCGAGGCATTCCTTACAACTCTGCAY

106194 T    G        A    ATATTGCAGAGTTGTAAGGAAATCAATGAGGGTAGGTAATATTATTGTGTAGGTAATGCAGTATCACAGA

106194 T    C        A    ATATTGCAGAGTTGTAAGGAAATGAATGAGGGTAGGTAATATTATTGTGTAGGTAATGCAGTATCACAGA

                      GGAAAAATATAAACTCTGTGATACTGCATTACCTACACAATAATATTACCTACCCTCATTJGCATTTCCTTACAACTCTGCAATATTAACTAATCTCTCCTGAACTGAATCC
                      AACGACCATGCT
106194 IS   [GC]
106196 I             S    GCTGCCCCATAGAAGCTTGTACACAGTACAGCT
106196 P    G        S    CGCGCCGAGGCTCTGTTTGCCAGTTTGAY
106196 P    C        S    ATGACGTGGCAGACGTCTGTTTGCCAGTTTGAY
106196 T    G        S    GCACTCAAACTGGCAAACAGAGGCTGTACTGTGTACAAGCTTCTATGGGGCAGCCA
106196 T    C        S    GCACTCAAACTGGCAAACAGACGCTGTACTGTGTACAAGCTTCTATGGGGCAGCCA

                      GGGCTTCCAAAGTGCCAGAATGCATTCAGATGGAGCAAAGCACTCAAACTGGCAAACAGAJCGCTGTACTGTGTACAAGCTTCTATGGGGCAGCCAGCAGAGGGGCCAT
                      GGGGTTGAGGGTTC
106196 IS   [GC]
106198 I             S    CCCCAGCGTAGCAGTCTGTCACTGGGT
106198 P    C        S    ATGACGTGGCAGACGACAATGCCCTGCTCY
106198 P    G        S    CGCGCCGAGGCACAATGCCCTGCTCY
106198 T    C        S    AGTAGAGCAGGGCATTGTCCCCAGTGACAGACTGCTACGCTGGGGCC
106198 T    G        S    AGTAGAGCAGGGCATTGTGCCCAGTGACAGACTGCTACGCTGGGGCC

                      ACTCGGGCACTAGCAGCCCTGGCCCCTGCCCGGTGCTCCAGCAGTAGAGCAGGCCATTGTJCGJCCCAGTGACAGACTGCTACGCTGGGGCCAGAAGTGCCACAGAGCAAG
                      CCTGGACAATGAC
106198 IS   [CG]
106199 I             A    GCCGCCGACTCCCGGACACA
106199 P    C        A    ATGACGTGGCAGACCCCTAGGGCCACATACY
106199 P    T        A    CGCGCCGAGGTCCTAGGGCCACATACY
106199 T    C        A    GGGAGTATGTGGCCCTAGGAGTGTCCGGCAGTCCGCCGCGG
106199 T    T        A    GGGAGTATGTGGCCCTAGGAGTGTCCGGCAGTCCGCCGCGG

                      ACAGAGGGAACTGTTAAACCTCGGGCCGCTCCCCAGCGCCGCCGCGGCAACTCCCGGACAC JCTJCCTAGGGCCACATACTCCCTCCACGCCCTCTCACCTCATCATCCACCAC
                      GCCCCCGTCGA
106199 IS   [CT]
106200 I             A    TGGGGCCTGACAACCCCCTCTGATCC
106200 P    G        A    ATGACGTGGCAGACGCCCTCACGTCCCY
106200 P    T        A    CGCGCCGAGGTCCCTCACGTCCCAY
106200 T    G        A    CTTATGGCAACGTGAGGGCGATCAGAGGGGGTTGTCAGGCCCCAGA
106200 T    T        A    CTTATGGCAACGTGAGGGCAGATCAGAGGGGGTTGTCAGGCCCCAGA

                      CACAGAGCAGCTGTGGAGGGAGGGGTTTGGTGCTCTGGGGCCTGACAACCCCCTCTGATCJCTJCCCTCACGTCCCATAAGGAGGCAAAGGCCGGATTTCCCAGGCCTGGG
                      AGGACTGCTCCAA
106200 IS   [GT]
106201 I             A    GAGCTGCAAATCAGCTTCATGGAGCAGCATTGCT
106201 P    A        A    CGCGCCGAGGAATGCCCATCTACAAGTGY
106201 P    G        A    ATGACGTGGCAGACGATGCCCATCTACAAGTGY
106201 T    A        A    CACTCACTTGTAGATGGGCATTGCAATGTGCTCCATGAAGCTGATTTGCAGCTCAG
106201 T    G        A    CACTCACTTGTAGATGGGCATGCCAATGTGCTCCATGAAGCTGATTTGCAGCTCAG

                      GATGGACCGGCAGAAGGCCTATATCCCTGAGCTGCAAATCAGCTTCATGGAGCACATTGCJAGJATGCCCATCTACAAGTGAGTGAGCTCATGGGGACAAGCTGCACCCTG
                      CACAGAGAGGCTA
106201 IS   [AG]
106202 I             S    CCTGGTATTAAGCCTTTTGAGTCTTAAGATGACAAATCCCTAGGGT
106202 P    C        S    ATGACGTGGCAGACGTCAGGTGGTTTTCCCY
106202 P    T        S    CGCGCCGAGGATCAGGTGGTTTTCCCY

106202 T    C        S    GTGCGGGAAAACCACCTGACCCCTAGGGATTTGTCATCTTAAGACTCAAAGGCTTAATACCAGGAA

106202 T    T        S    GTGCGGGAAAACCACCTGATCCCTAGGGATTTGTCATCTTAAGACTCAAAGGCTTAATACCAGGAA

                      AAGACAAAGGGGCTGAGGGATTTCTCATTGACAAGAGTTCGTGCGGGAAAACCACCTGAJCTJCCCTAGGGATTTGTCATCTTAAGACTCAAAGGCTTAATACCAGGA
                      ACCACCTGGCAAG                                                                                                    PP1044
106203 I             S    ACTGCGGTGACCACTCCTCCCAGCT
106203 P    G        S    ATGACGTGGCAGACCCACCCTGCTCTCTCY
106203 P    T        S    CGCGCCGAGGACACCCTGCTCTTCTCY
106203 T    G        S    GTATGAGAAGAGCAGGGTGGCCTGGGAGGAGTGGTCACCGCAGTGG
106203 T    T        S    GTATGAGAAGAGCAGGGTGTCCTGGGAGGAGTGGTCACCGCAGTGG

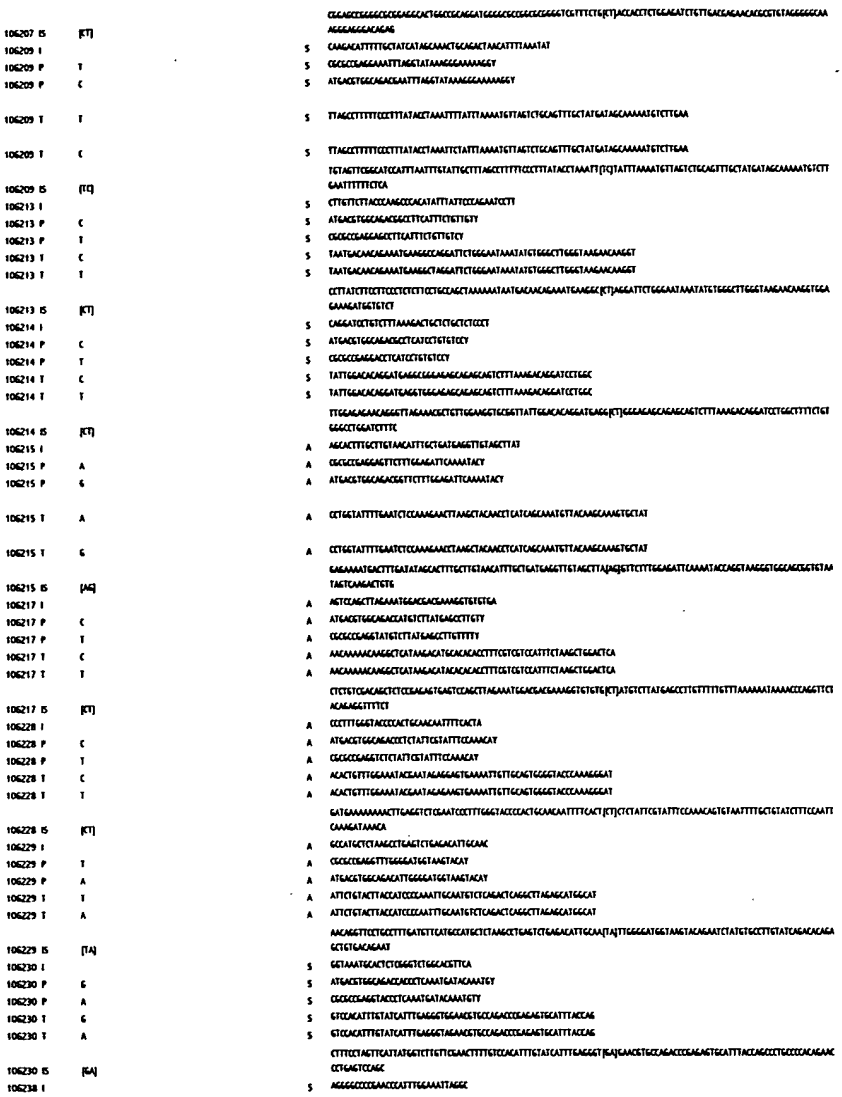
                      GTGCTGAAAACAGAAATCCGAGATGCATATAAATTCAATCCCTATGAGAAGAGCAGGGTGJGTJCCTGGGAGGAGTGGTCACCGCAGTGGCTCCACCTCCTACCCGCCGC
                      CTGCAGCCCTGCC
106203 IS   [GT]
106204 I             S    CATTAACACCAAATGGTGGTCTTAACTTTTAATGATAGAACAAACACT
106204 P    T        S    CGCGCCGAGGACATTTTATGAATGAATCAGGAGY
106204 P    C        S    ATGACGTGGCAGACGCATTTTATGAATGAATCAGGAGY

106204 T    T        S    TGAACTCCTCATTCATTCATAAAATGTCTGTTTGTTCTATCATTAAAAGTTAAGACCACCATTTGGTGTTAATGTT

106204 T    C        S    TGAACTCCTCATTCATTCATAAAATGCCTGTTTGTTCTATCATTAAAAGTTAAGACCACCATTTGGTGTTAATGTT

                      ATGTAATTTTCAAAATAGCAATGGAAAAATATGACTGAACTCCTCATTCATTCATAAAATGJTQCTGTTTGTTCTATCATTAAAAGTTAAGACCACCATTTGGTGTTAAT
                      GTTTTTCTCTCATT
106204 IS   [TC]
106206 I             A    ACGTTCACCCTGACCGTGCTCACTGGA
106206 P    T        A    CGCGCCGAGGTTACTGCCCCAGAAACAY
106206 P    C        A    ATGACGTGGCAGACCTACTGCCCCAGAAACAY
106206 T    T        A    GGCCTGTTTCTGGGGCAGTAACCAGTGAGCACGGTCAGGGTGAACCTGG
106206 T    C        A    GGCCTGTTTCTCGGGGCAGTAGCCAGTGAGCACGGTCAGGGTGAACCTGG

                      TTACTGTGCTCTCTCCTCCTCAAAAGCTCTCCCACGTTCACCCTGACCGTGCTCACTGGJTQTACTGCCCCAGAAACAGGCCTTGAATTCCAAGCCTGCCCCCCCCCCCGC
                      AGCCAGCCTGG
106206 IS   [TC]
106207 I             A    GCCGCGCCGGGGTCGTTTCTGA
106207 P    C        A    ATGACGTGGCAGACCACCACCTCTGGAGATY
106207 P    T        A    CGCGCCGAGGTACCACCTCTGGAGATCTY
106207 T    C        A    CAACAGATCTCCAGAGGTGGTGCAGAAACGACCCCCGCCCGCGC
106207 T    T        A    CAACAGATCTCCAGAGGTGGTACAGAAACGACCCCCGCCCGCGC
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FIGURE 129C

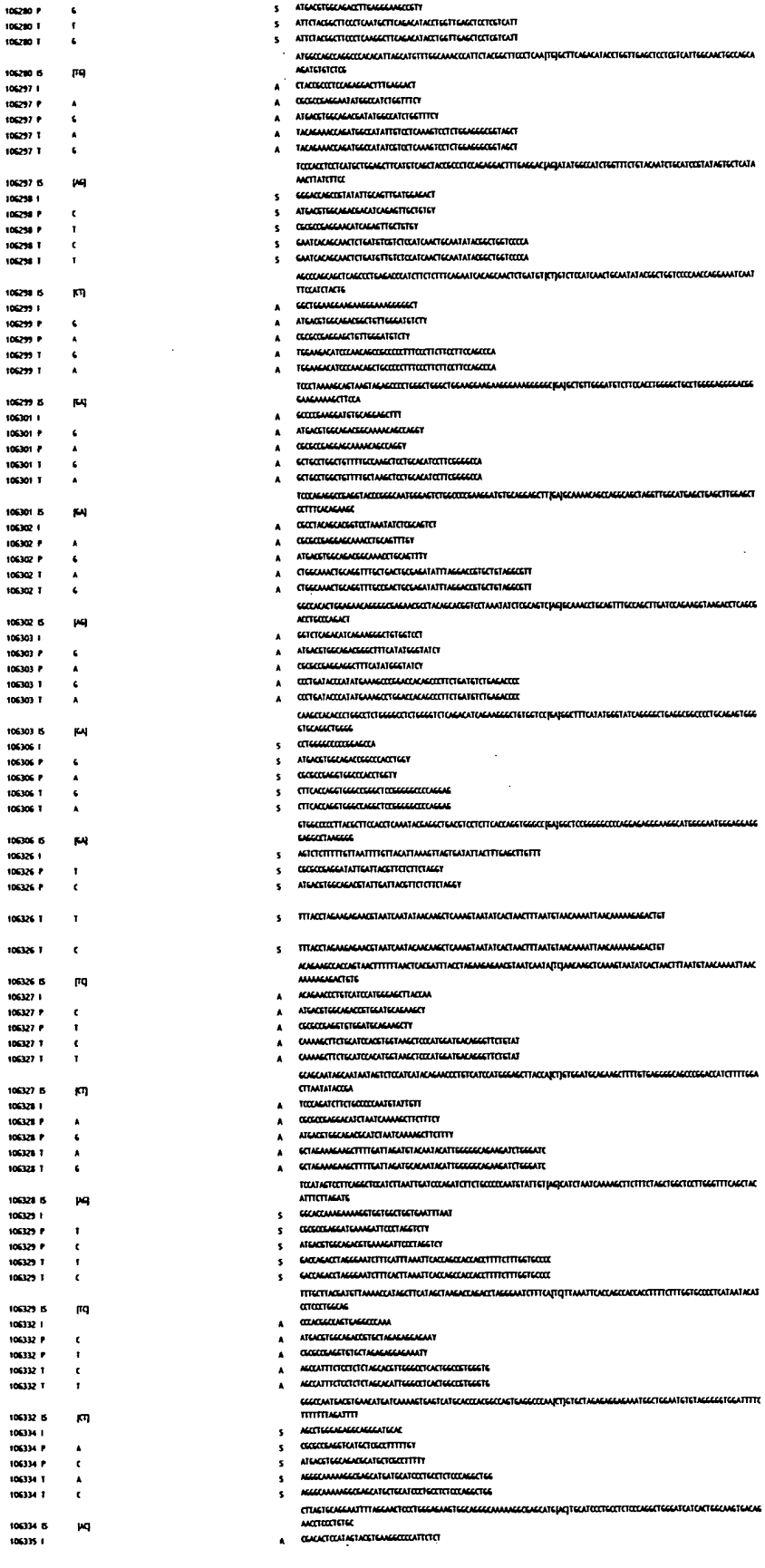


FIGURE 129C

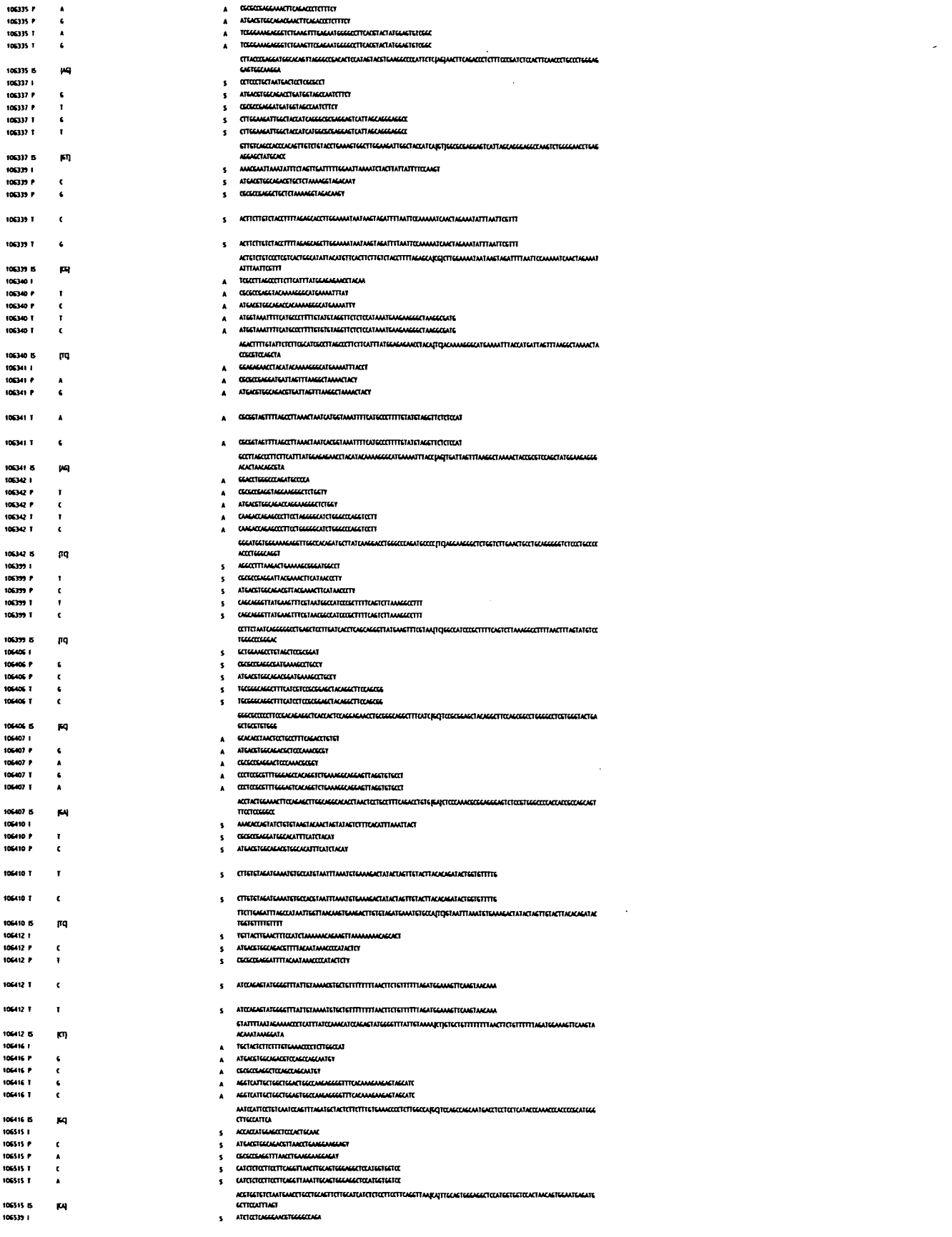
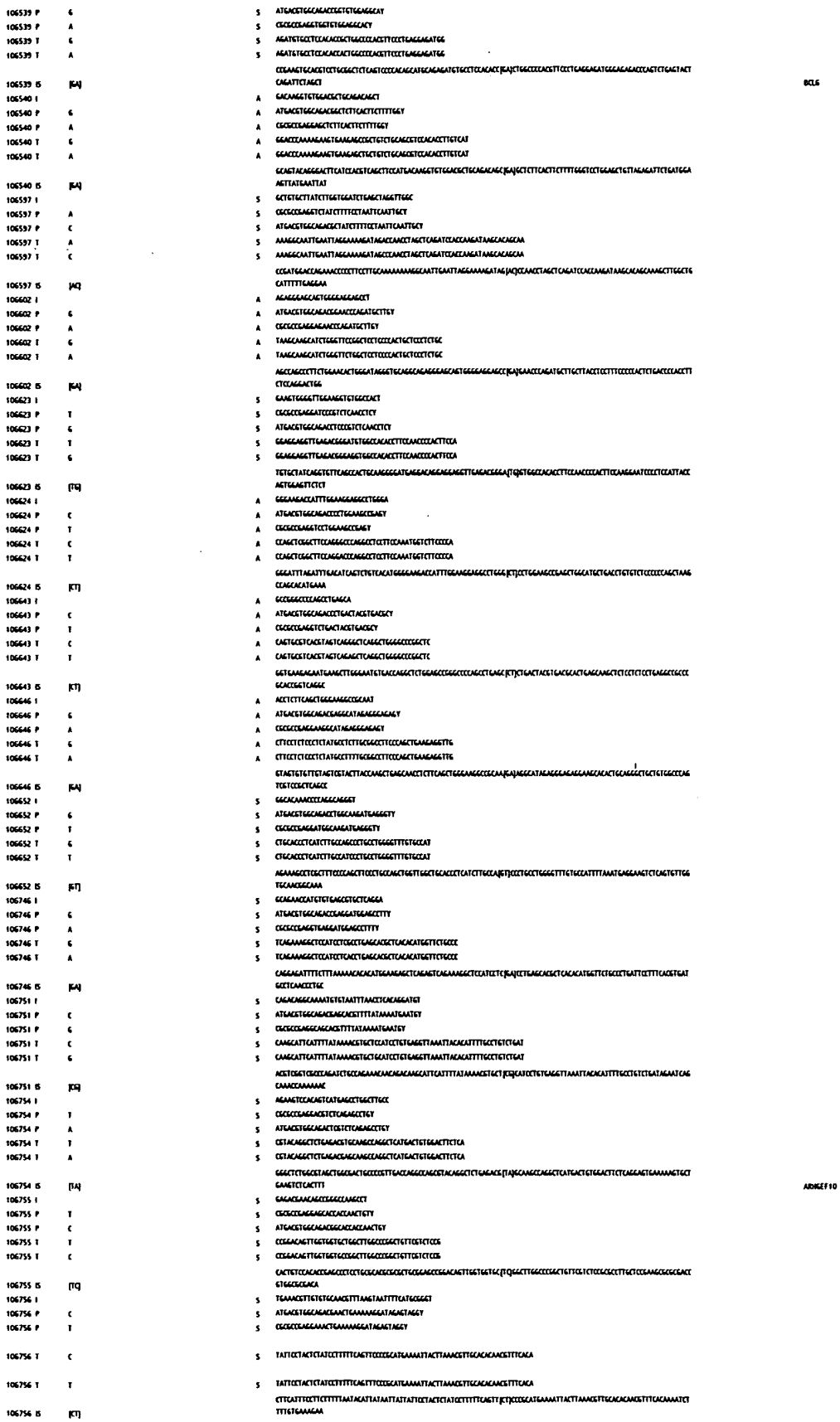
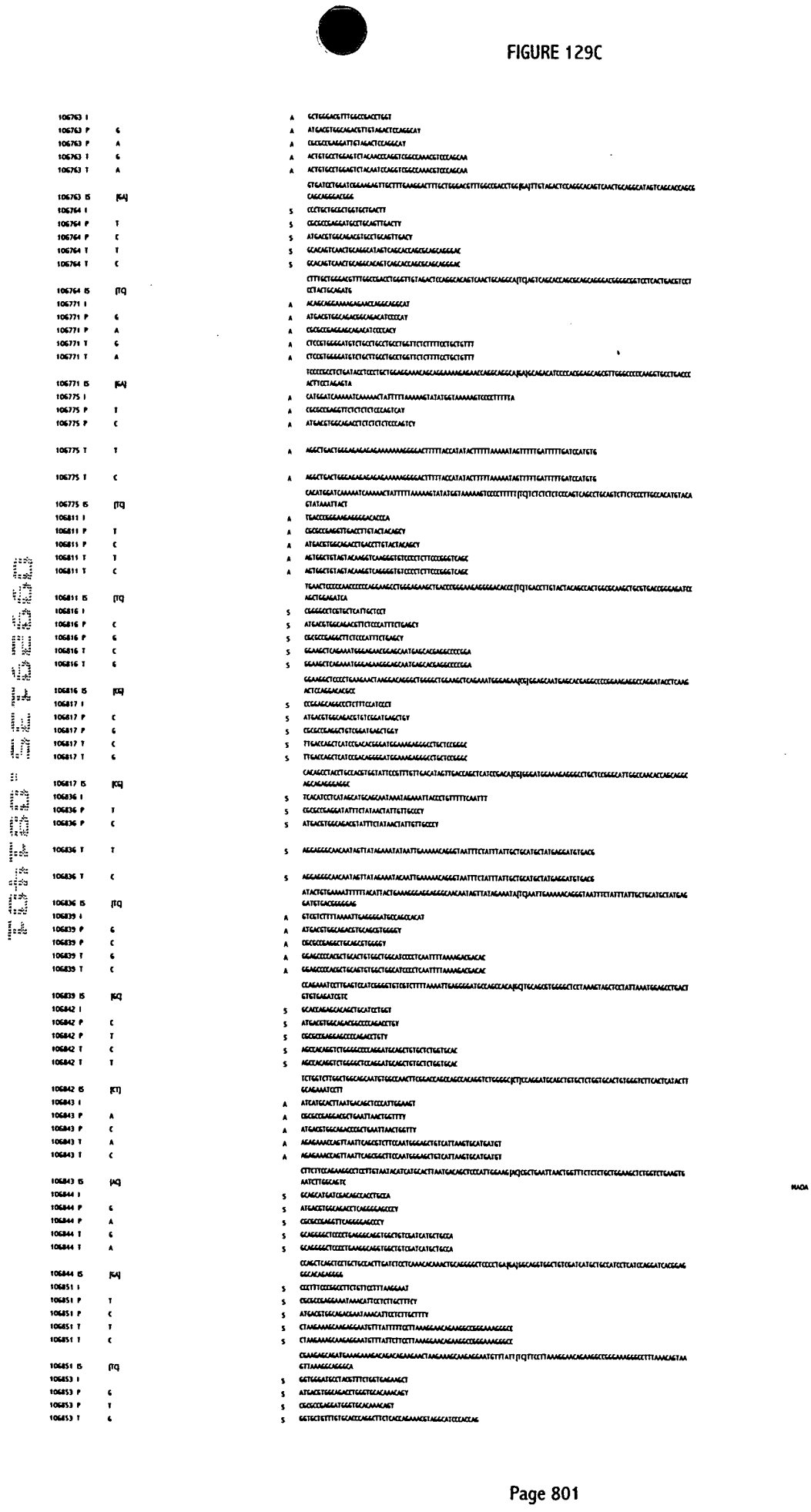


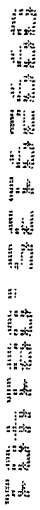
FIGURE 129C











106853 T T S GGTGTGTTTTGTGCACCCATGCTTCTCACACAGAAACGTAGGCATCCCCACCAG

CCCGCCCTTGCCCCCACTTTGAGACAGGATCCCCTAGCCAGGTGCTGTTTGTGCACCCAGTGCTTCTCACAGAAACGTAGGCATCCCCACCAGGAGCCCCAGAGTGTCGC

106853 IS (GT) CCAACACTAGCT

106854 I S TCCACCCCCTCTCCAGCAGGACT

106854 P C S ATGACGTGGCAGCAGCGTTTGCACCACAGCY

106854 P T S CGCCCCGAGGACTTTGCACCACAGCY

106854 T C S CCCGGCTGTGGTGCAAAGCGTCCTCCTGGAGACGGGGGTGGAAT

106854 T T S CCCGGCTGTGGTGCAAAGTGTCCTCCTGGAGACGGGGGTGGAAT

GGCCCTCTTGAAGCCGCTGGTTTTTCGCGTTCACGAGACACCCCGGCTGTGGTGCAAAGTGTGTCCTCCTGGAGACGGGGGTGGAATAAGTTTGATAAGCAGGAGCAGA

106854 IS (CT) ACGCGGAGGACTGG NYD-TSP6

106855 I A GAGCGTCTGTACCTCTGCGGCGTCAT

106855 P C A ATGACGTGGCAGACCTGGGAGCCCGACY

106855 P A A CGCGCCGAGGATGGGAGCCCGACY

106855 T C A TTCCGTCGGGCTCCCAGTGACGCCGCAGAGGTACAGACGCTCCC

106855 T A A TTCCGTCGGGCTCCCATTGACGCCGCAGAGGTACAGACGCTCCC

TTAGCAACGAGTTGTTGACATTTCCGAGAGAGCGGGAGGTCTGTACCTCTGCGGCGTCAGAGTGGGAGCCCGACGGAAAACTGCGCTAAAGGCTTGTCTTTCCCCTGCC

106855 IS (CA) CGACCGAAGGAGC

106856 I A CCGAAGGAGCCGACCTTGCCTGCT

106856 P G A ATGACGTGGCAGACGCTACAGCTTCCTTATTTTCY

106856 P A A CGCGCCGAGGACTACAGCTTCCTTATTTTCGY

106856 T G A GCGACGAAAATAAGGAAGCTGTAGCGCAGGCAAGGTCGGCTCCTTCGGTC

106856 T A A GCGACGAAAATAAGGAAGCTGTAGTGCAGGCAAGGTCGGCTCCTTCGGTC

GAAAACTGCGCTAAAGGCTTTGTCTTTCCCCTGCCGACCGAAGGAGCCGACCTTGCCTGCGAGACTACAGCTTCCTTATTTTCGTCGCCTGTTCTCCTGATCCTCGGTGTTCT

106856 IS (CA) AAAAGCCCTT DN3ZP566F0546

106860 I S GGAGTTGGCCAAGCAGCCCGTGTCA

106860 P G S ATGACGTGGCAGACCCAGGGTACTAAGCCY

106860 P A S CGCGCCGAGGTGAGGGTACTAAGCCY

106860 T G S TGACGGCTTAGTACCCTCGGACACGCGTGCTTGGCCAACTCCCC

106860 T A S TGACGGCCTTAGTACCCTCAGACACGCGTGCTTGGCCAACTCCCC

TTGCAACCAACTCACTGTTTACTTAGCGCTGGTGTACTTGCTGACGGCCTTAGTACCCTCGAGACACGCGTGCTTGGCCAACTCCCCAGGCAGCACGCAGGCGCACGCCC

106860 IS (GA) GTCTGGATCTCC

106862 I A GGTGGAGTCTGCAGAGGACAGATCTAGGGGT

106862 P A A CGCGCCGAGGAAGCAAGCAGGAGCCATY

106862 P G A ATGACGTGGCAGACGAGAAGCAGGAGCCAY

106862 T A A TCATATGGCTCCTGCTTCTTCCCCTAGATCTGTCTCTCCAGACTCCACCCT

106862 T G A TCATATGGCTCCTGCTTCTCCCCCTAGATCTGTCTCTCCAGACTCCACCCT

TGAGAGTAGATTATGTCCCCCTTGCAGAAGGGTGGAGTCTGCAGAGCAGACAGATCTAGGGGGAGGAGCAGCCATATGACTTCTGTTCAATTTAGCCATTCCCAGC

106862 IS (AG) AATCCATAAATTCC

106865 I S TGTCCCTCCTTGGGGCAGAGCTAACCA

106865 P G S ATGACGTGGCAGACCAGAGAAAAGAAATCCTTACAATCY

106865 P A S CGCGCCGAGGTAGAGAAAAGAAATCCTTACAATCY

106865 T G S TAAGGATTGTAAGGATTTCTTTTCTCTGGGTTAGCTCTCCCCAAGGAGGGACATT

106865 T A S TAAGGATTGTAAGGATTTCTTTTCTCTAGGTTAGCTCTCCCCAAGGAGGGACATT

CCAGCCCAGCCCCAGGACATTTTCACAGGAAAGGTAAGGATTGTAAGGATTTCTTTTCTCTGAGGTTAGCTCTCCCCAAGGAGGGACATTTCAAAATAAGGAACTCATC

106865 IS (CA) CTGGACTTTACTA

106870 I S CAGCCCTGCTCCAGGCACCATGGT

106870 P T S CGCGCCGAGGAAGCAGATGAGGTTGAGGT

106870 P C S ATGACGTGGCAGACGAGCAGATGAGGTTGAGY

106870 T T S TGACCCTCAACCTCATCTGCTCCATGGTGCCTGGAGCAGGGCTGTG

106870 T C S TGACCCTCAACCTCATCTGCTCCATGGTGCCTGGAGCAGGGCTGTG

TCCGAGTGCTATTGACCCAAACATCCACTAACTTCCCCATGACCCTCAACCTCATCTGCTTGCCCATGGTGCCTGGAGCAGGGCTGTGGTCCCTGTGAATGCTCCAGATGG

106870 IS (TC) GTTGACCAACTG

106873 I A AGGCAGGCCACGCCCCTCCT

106873 P A A CGCGCCGAGGATGTGTAAGACCTGCCY

106873 P G A ATGACGTGGCAGACGTGTGTAAGACCTGCCY

106873 T A A TTTTCGGCAGGTCTTACACATGGAAGGGGCTGCCTGCCTGC

106873 T G A TTTTCGGCAGGTCTTACACACGGAGGGGCTGGCCTGCCTGC

GCTGACTCTCCTTTGCATCTCCTCCCCAGGAGCAGCAGTGGCAGGCAGGCCACGCCCCTCCTAGTGTGTGTAAGACCTGCCGAAAACACTCCTCGTGGGGTTGGGGTGGGAGTG

106873 IS (AG) CAGGGGCTTGG

106874 I S CTGCACTCCCACCCCAACCCCAT

106874 P G S CGCGCCGAGGCGAGGAGTGTTTTCGGY

106874 P C S ATGACGTGGCAGACGAGGAGTGTTTTCGGY

106874 T G S CCTGCCGAAAACACTCCTCGTGGGGTTGGGGTGGGAGTGCAGGG

106874 T C S CCTGCCGAAAACACTCCTCGTGGGGTTGGGGTGGGAGTGCAGGG

GCACGCAGTGGCAGGCAGGCCACGCCCCTCCATGTGTAAGACCTGCCGAAAACACTCCTCGTGGGGTTGGGGTGGGAGTGCAGGGGCCTTGGTGGTTTCTACACCCAT

106874 IS (GC) GGGCTGCCCGGC

106885 I S TGGACGCCCTACCCTCCTGGAGCT

106885 P C S ATGACGTGGCAGACGTCCATACACATAAGTACAATGY

106885 P T S CGCGCCGAGGATCCATACACATAAGTACAATGCY

106885 T C S TCTGGCATTGTACTTATGTGTATGGAGCTCCAGGAGGGTAGGGGCGTCCACT

106885 T T S TCTGGCATTGTACTTATGTGTATGGATGCTCCAGGAGGGTAGGGGCGTCCACT

CATTTGGTTTTCCTACTTTCAAAAATGAAAGTATTCTGGCATTGTACTTATGTGTATGGAGCTGCTCAGGAGGGTAGGGCGTCCACTCATACATGCTTGAACAAAGAAC

106885 IS (CT) AGCTTTCATCTTC

107138 I A CCAGAAAGAGCCAACAGGCTCCTGTCACCTAAT

107138 P A A CGCGCCGAGGAAGGGAAACAAAAGTTCTTGAY

107138 P G A ATGACGTGGCAGACGAGGAAACAAAAGTTCTTGY

107138 T A A AAAATCAAGAACTTTTGTTTCCCTTTAGGTGACAGGAGGCCTGTTGCCTCTTTCTGGCT

107138 T G A AAAATCAAGAACTTTTGTTTCCCTCTTAGGTGACAGGAGGCCTGTTGCCTCTTTCTGGCT

TTTTTTGGTGTTTCTTCTCACTTTCCCAGCCAGAAAGAGGCAACAGGCTCCTGTCACCTAAGAGTAGGAAACAAAAGTTCTTGATTTTTGTTATCAAAGGTCACACAGAAA

107138 IS (AG) TAGATACAATAAA

107141 I S CCAGGGCCCCGGCCTCCAT

107141 P C S ATGACGTGGCAGACGGCTCACAGTACCTTY

107141 P G S CGCGCCGAGGCGGCTCACCAGTACCTTY

107141 T C S GCCCAAGGTACTGGTGACCCTGGAAGCCCGGGGCCCTGGCT

107141 T G S GCCCAAGGTACTGGTGACCGTGGAAGCCCGGGGCCCTGGCT

TGCCTGGTGGAGTCACCTAAGCCCCAGCGACACCCCGGCCTGCCCAAGGTACTGGTGACCGCGTGGAAGCCCGGGGCCCTGGCTTCTCAGTCAGGGTCTCCTCCCCATGGCG

107141 IS (CG) GCAGAGCTGTCT

107159 I A CATGCGCGCGGCCGACCTGTGT

107159 P C A ATGACGTGGCAGACGCTCGGGTTCTGTY

107159 P A A CGCGCCGAGGAGCTCGGGTTCTGTGY

107159 T C A CCGGCACAGAACCGAGCGCACAGGTCGCCGCGCGCATGCG

107159 T A A CCGGCACAGAACCGAGCTCACAGGTCGCCGCGCGCATGCG

CCGCCGCGCCCCAAGCACTGTGCTGGGCAGGAGAAGTGCGCATGCGCGCGGCGACCTGTGCGCAGCTTCTGTGCCGCTTTTACCCCAGGTAAGCGGGCGCTGCGT

107159 IS (CA) TAACCCCTTCCC

107178 I A CAGTTTTTGTTGTTTTTTCTTCTAAAAGTTTAGATCGTATATATAAAAACATTAGAAACAA

107178 P T A CGCGCCGAGGTACAGTTACCATGTTGAACAAT

107178 P C A ATGACGTGGCAGACCACAGTTACCATGTTGAACAT

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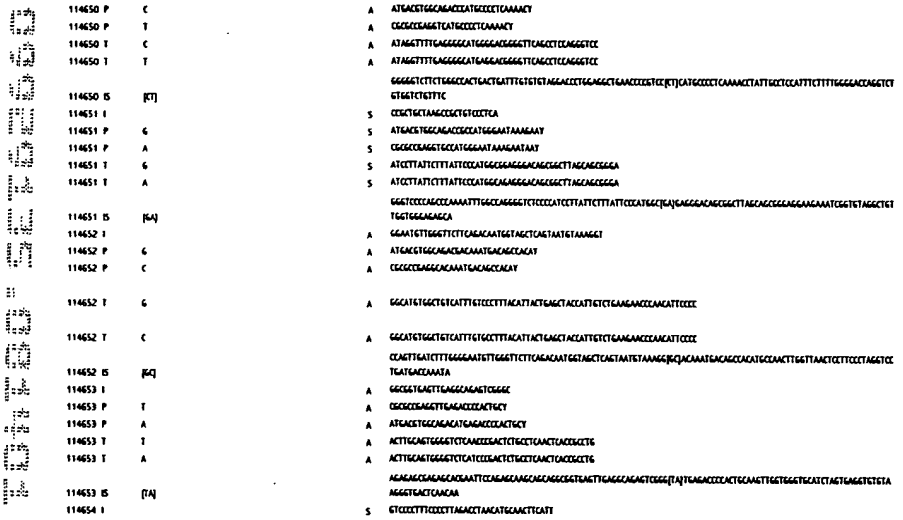


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107178 IS	[TC]		CAGTTTTTGTTGTTTTTCTTCTAAAAGGTTTAGATCGTATATATAAAACATTAGAAACA[TC]ACAGTTACCATGTTGAACAAAACTAAAAAAGCAAAACAAACAAAA ACACAAGCATGAT	
107181 I		S	CAATGACAGCTCTAGGCATCAAGGATGACACACAGAAATTAGAGAATT	
107181 P	C	S	ATGACGTGGCAGACGCAGGTTAGGTTTTGAAGY	
107181 P	T	S	CGCGCCCAGGACAGGTTTAGGTTTTGAAGY	
107181 T	C	S	TGTACCTTCAAAACCTAAACCTGCATTCTCTAATTTCTGTGTCATCCTTGATGCCTAGAGCTGTCATTGAC	
107181 T	T	S	TGTACCTTCAAAACCTAAACCTGTATTCTCTAATTTCTGTGTCATCCTTGATGCCTAGAGCTGTCATTGAC	
107181 IS	[CT]		TGGCTATTTTACCCAAATTAACAGTGTAAGCTTAGATGTACCTTCAAAACCTAAACCT[CT]ATTCTCTAATTTCTGTGTCATCCTTGATGCCTAGAGCTGTCATTGAC AAGTGTCTGTTTT	
107184 I		S	TGAATTGTTTTTGGCATTCACCTAAAATTCAATCTGTAAATTATAGCTGA	
107184 P	A	S	CGCGCCCAGGTCTTTATTTTTCTCTCGAATATATTTATATACTCY	
107184 P	G	S	ATGACGTGGCAGACCCTTTATTTTTCTCTGAATATATTTATATACTCY	
107184 T	A	S	GCCTGAGTATATAAATATATTCAGAGAAAAATAAAGACAGCTATAATTTACAGATTGAATTTTAGGTGAATGCCAAAAACAATTCAGA	
107184 T	G	S	GCCTGAGTATATAAATATATTCAGAGAAAAATAAAGCAGCTATAATTTACAGATTGAATTTTAGGTGAATGCCAAAAACAATTCAGA	
107184 IS	[AG]		ACTATTATAGACTATTAACTATTTGCCTGAGTATATAAATATATTCAGAGAAAAATAAAG[AG]CAGCTATAATTTACAGATTGAATTTTAGGTGAATGCCAAAAACAA TTCAGAGACATTCC	
107187 I		A	CACATGCTGATTTCTGTGCCTTTTTTACTTGTTCTTTCCGTT	
107187 P	A	A	CGCGCCCAGGAGAATGTACACCCTCCACY	
107187 P	G	A	ATGACGTGGCAGACGGAATGTACACCCTCCAY	
107187 T	A	A	TAGAGTGGAGGGTGTACATTCCACGGAAAGAACAGTAAAAAGGCACAGAAATCAGCATGTGTA	
107187 T	G	A	TAGAGTGGAGGGTGTACATTCCACGGAAAGAACAGTAAAAAGGCACAGAAATCAGCATGTGTA	
107187 IS	[AG]		TCTTTCCAAGAAATTGATACACATGCTGATTTCTGTGCCTTTTTACTTGTTCTTTCCGT[AG]GAATGTACACCCTCCACTCTAACACCCTACTCTAACCATCCTTGAACAC CTATGTAACAT	
107238 I		A	GTTCCTAAGGCAGGGATCCTTGAAATGGAAAATAAATCAGCAAATAT	
107238 P	G	A	ATGACGTGGCAGACGAAACTCTAGTTTACCAAAGACTY	
107238 P	C	A	CGCGCCCAGGCAAACTCTAGTTTACCAAAGACTY	
107238 T	G	A	GGTAAGTCTTTGGTAAACTAGAGTTTCTATTTGCTGATTTATTTTCCATTTCAAGGATCCCTGCCTTAGGAACCT	
107238 T	C	A	GGTAAGTCTTTGGTAAACTAGAGTTTGTATTTGCTGATTTATTTTCCATTTCAAGGATCCCTGCCTTAGGAACCT	
107238 IS	[GC]		TTTATAAGTCAAAGGTTCCTAAGGCAGGGATCCTTGAAATGGAAAATAAATCAGCAAATA[GC]AAACTCTAGTTTACCAAAGACTTACCTTTCATTCTTTCTAAAAGGG TTCCATAGCCCAAG	
107245 I		S	GTCAGCGCTCCCGGCTCAGCAACT	
107245 P	G	S	CGCGCCCAGGCGGCTGTCTCCTGGY	
107245 P	C	S	ATGACGTGGCAGACGGGCTGTCTCCTGGY	
107245 T	G	S	ACGCCCAGGAGACAGCCGGTTGCTGAGCCGGGAGCGCTGACTG	
107245 T	C	S	ACGCCCAGGAGACAGCCGGTTGCTGAGCCGGGAGCGCTGACTG	
107245 IS	[GC]		CCGTCGGGCCCGAAGTTGTTCCGTCCGAACGGCCTTCCAGCGACGCCCAGGAGACAGCC[GC]GTTGCTGACCCGGGAGCGCTGACTGGCCCGGCTGGGCAGGGTAAGCG AGGGGAGTAGGC	
107248 I		S	TGCCTGAAATTGCTTCCACACTTTTTCCTAACTA	
107248 P	G	S	ATGACGTGGCAGACCCGTTGCTTGCTCAAY	
107248 P	A	S	CGCGCCCAGGTCGTTGCTTGCTCAACY	
107248 T	G	S	TATAGTTGAGCAAGCAACGGAAGTTAGGAAAAAGTGTGGAAAGCAATTTCAGGCAAA	
107248 T	A	S	TATAGTTGAGCAAGCAACGAAGTTAGGAAAAAGTGTGGAAAGCAATTTCAGGCAAA	
107248 IS	[GA]		ACGGGATTAGGTAAGGTGCATTACAGTCTCTGGGTGTCAGATATAGTTGAGCAAGCAACG[GA]AGTTAGGAAAAAGTGTGGAAAGCAATTTCAGGCAAACAAATTCAT TGACTTGATTACCT	
107267 I		A	TGCCAGTCCCAGCAGCAGTTGCATTAGGCA	
107267 P	T	A	CGCGCCGAGGTGGAGGACTGGAGGTY	
107267 P	C	A	ATGACGTGGCAGACCGGAGGACTGGAGGY	
107267 T	T	A	CTCCACCTCCAGTCCTCCAGCCTAATGCAACTGCTCTGGGACTGGCATT	
107267 T	C	A	CTCCACCTCCAGTCCTCCGGCCTAATGCAACTGCTCTGGGACTGGCATT	
107267 IS	[TC]		TACGGGAGGCTATAGCCACTTCCTTCACTGAATGCCAGTCCCAGAGCAGTTGCATTAGGC[TC]GGAGGACTGGAGGTGGAGCCTTTTTTGCTCACGGCAGCAAGTTCCCT TCTCTTTCTCTC	
107270 I		A	CCCCAGCACAGAAATTTGCATTTTGCACAT	
107270 P	A	A	CGCGCCGAGGAAATTTGCCTGGTGCAY	
107270 P	G	A	ATGACGTGGCAGACGAATTTGCCTGGTGCAY	
107270 T	A	A	CTGCTGCACCAGGCAAATTTTGTGCAAAATGCAAATTTCTGTGCTGGGGAA	
107270 T	G	A	CTGCTGCACCAGGCAAATTCTGTGCAAAATGCAAATTTCTGTGCTGGGGAA	
107270 IS	[AG]		TACTTAGAATGATCACATTATTCATTTTTTTCCCCAGCACAGAAATTTGCATTTTGCACA[AG]AATTTGCCTGGTGCAGCAGATCTTTATAGTTATGGAAACTGTCATCA TTATCGGAATGTG	
107287 I		A	GCAGAGATGGCCACTCAGGTAAAAATAGACATATTGATCCTAGCACT	
107287 P	A	A	CGCGCCGAGGATGTTATTCAAGAGGAGACTAATTY	
107287 P	G	A	ATGACGTGGCAGACGTGTTATTCAAGAGGAGACTAATT	
107287 T	A	A	TAGAAATTAGTCTCCTCTTGAATAACATGTGCTAGGATCAATATGTCTATTTTTAACTGAGTGCCATCTCTGCCA	
107287 T	G	A	TAGAAATTAGTCTCCTCTTGAATAACAGGTGCTAGGATCAATATGTCTATTTTTAACTGAGTGCCATCTCTGCCA	
107287 IS	[AG]		TTCAGGCAGATGATGGCAGAGATGGCACTCAGGTAAAAATAGACATATTGATCCTAGCAC[AG]TGTTATTCAACAGGAAGACTAATTTCTACTACTTTTTATCTCGTGGA TAATTTTTTAAAGC	
107293 I		S	GTGAACTTACTGCCTCCCCTGCTGCAAGAT	
107293 P	C	S	ATGACGTGGCAGACGGACTATCTCCTGAGCCY	
107293 P	G	S	CGCGCCGAGCGACTATCTCCTGAGCCY	
107293 T	C	S	CCGAGGCTCAGGAGATAGTCCTCTTGCAGCAGGGAGGCAGTAAGTTCACAA	
107293 T	G	S	CCGAGGCTCAGGAGATAGTCGTCTTGCAGCAGGGAGGCAGTAAGTTCACAA	
107293 IS	[CG]		ATCGTAAGCATCGAAGAGATCGCTGATGCCTTCCTCCTCCCCAGGCTCAGGAGATAGTC[CG]TCTTGCAGCAGGGAGGCAGTAAGTTCACAAACGGTCCTTCTAGGTT GGAAGGAATTGG	EZF3
107297 I		A	CACTGCTCCAATCCCCAGTGCCTTCTGAAGT	
107297 P	G	A	ATGACGTGGCAGACGCCCTGATGTCCCY	
107297 P	A	A	CGCGCCGAGGAGCCCTGATGTCCCY	
107297 T	G	A	AACTGGCACATCAGGCCCTTCAGAAGGCACTGGGGATTGGAGCAGTGAG	
107297 T	A	A	AACTGGGACATCAGGCCTCTTCAGAAGGCACTGGGGATTGGAGCAGTGAG	
107297 IS	[GA]		CGGTTTCCTCCTGCTCTTCCTCAGGCTCCTCACTGCTCCAATCCCCAGTGCCTTCTGAAG[GA]GCCCTGATGTCCCAGTTCCTCAGTCTGATTGGGGAAGATACGCTCAGGG CCCATGGTGTC	MEA
107301 I		A	AGGCTGAGTAACTCTGGGGAACTCTGGCTT	
107301 P	C	A	CGCGCCGAGGCAGTAAACTCTCTCCCACAY	
107301 P	G	A	ATGACGTGGCAGACGAGTAAACTCTCTCCCACAY	
107301 T	C	A	CTCATGTGGGAAGAAGTTTACTGAGCAGAAGTCCCCAGAGTTACTCAGCCTGC	
107301 T	G	A	CTCATGTGGGAAGAAGTTTACTGAGCAGAAGTCCCCAGAGTTACTCAGCCTGC	
107301 IS	[CG]		ATTCTCACTGTAGGGGCATGTATTGACCAAGCAGGCTGAGTAACTCTGGGGACTCTGGCT[CG]AGTAAACTCTCTCCCACATGAGGACTTTGGAAAAGTGTGTTTTATTC AGGGTTCATCTGT	
107317 I		A	TGTGACAGAAGTCATCAGCTGGAAGCCTTATAATTAAGCGAT	
107317 P	A	A	CGCGCCGAGGACTTTTATTTCAGAATCTCCAATCY	
107317 P	C	A	ATGACGTGGCAGACCCTTTTATTTCAGAATCTCCAATCY	



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107317 T	A	A	CATGGATTGGAGATTCTGAAATAAAAGTTCGCTTAATTATAAGGCTTCCAGCTGATGACTTCTGTCACATC	
107317 T	C	A	CATGGATTGGAGATTCTGAAATAAAAGTCGCTTAATTATAAGGCTTCCAGCTGATGACTTCTGTCACATC	
107317 IS	(AC)		TTACTCTTCTTTATTTGGATGTGACAGAAGTCATCAGCTGGAAGCCTTATAATTAAGCGA(AC)CTTTTATTTCAGAATCTCCAATCCATGTTTAATTCCAATTTTTCAG GATCTTCAACAC	
107336 I		S	CTGGCGAAGTGCCCACACAGGATTA	
107336 P	G	S	ATGACGTGGCAGACCTGCCTCCTCGGY	
107336 P	A	S	CGCGCCGAGGTCTGCCTCCTCGGGY	
107336 T	G	S	CACGCCCGAGGAGGCAGGAATCCTGGTGTGGGCACTTCGCCAGGG	
107336 T	A	S	CACGCCCGAGGAGGCAGAAATCCTGGTGTGGGCACTTCGCCAGGG	
107336 IS	(GA)		GGCCTCACTCCCACCCGCCTGCCCCAGGCAGCCGGCCCCAGACACGCCCGAGCAGGCAG(GA)AATCCTGGTGTGGGCACTTCGCCAGGGATGCCACCCCACATGGTTCCAC AGCAGGGCCAC	
107340 I		S	GCCCGATGCGCTGCTCCGCT	
107340 P	T	S	CGCGCCGAGGACAGGAGTGGCAGAGY	
107340 P	C	S	ATGACGTGGCAGACGCAGGAGTGGCAGAY	
107340 T	T	S	CTACCTCTGCCACTCCTGTGCGGGAGCAGCGCATCGGGCCC	
107340 T	C	S	CTACCTCTGCCACTCCTGCGCGGGAGCAGCGCATCGGGCCC	
107340 IS	(TC)		TTGTCCATCACCACAGAGCAACAGCAAGGAAAACAAGGGGGGCTACCTCTGCCACTCCTG(TC)GCGGAGCAGCGCATCGGGCCCCTGGCGTTCCTGACAGCCTCCCCGAG CAGGTGCGCGCC	
107358 I		A	GTTTATCATTGTTGCAGGCTTATGATACTTATTAAATAACAAGTTTTTAAATTTCTGGC	
107358 P	G	A	ATGACGTGGCAGACGATATTCTTTTAGGAAATGATGACAY	
107358 P	T	A	CGCGCCGAGGTATATTCTTTTAGGAAATGATGACAGY	
107358 T	G	A	TTCTCTGTCATCATTTCCTAAAAGAATATCCCAGAAATTTAAAAACTTGTTATTTAATAAGTATCATAAGCCTGCAACAATGATAAACAA	
107358 T	T	A	TTCTCTGTCATCATTTCCTAAAAGAATATCCAGAAATTTAAAAACTTGTTATTTAATAAGTATCATAAGCCTGCAACAATGATAAACAA	
107358 IS	(CT)		TTGTTTATCATTGTTGCAGGCTTATGATACTTATTAAATAACAAGTTTTTAAATTTCTGG(CT)ATATTCTTTTAGGAAATGATGACAGACAGAAAGAAAGAAGCAATGTG GTTATAACAAGGATG	
107381 I		A	CCTTGGTCATGATGAGCAGCTCCATCTCCTTCTTT	
107381 P	A	A	CGCGCCGAGGAGCAGGTGTGTTGTCTY	
107381 P	G	A	ATGACGTGGCAGACGGCAGGTGTGTTGTCTY	
107381 T	A	A	AGAAAGACAACACACCTGCTAAGAAGGAGATGGAGCTGCTCATCATGACCAAGGAC	
107381 T	G	A	AGAAAGACAACACACCTGCCAAGAAGGAGATGGAGCTGCTCATCATGACCAAGGAC	
107381 IS	(AG)		GGAGGCTGTAAAGACCTTCCCGCTGTCCTTGGTCATGATGAGCAGCTCCATCTCCTCTT(AG)GCAGGTGTGTTGTCTTTCTCTAGGATCAGGAACTTGCAGTCCTTGTGC AAAAGGTCATCG	COL17A1
107391 I		A	GGATAGTTCTCATGTATGCTTTGCCATAGAATTTAGTTATATACATAAACTCATT	
107391 P	G	A	ATGACGTGGCAGACGAAAGGTTGATGCAGTGAY	
107391 P	A	A	CGCGCCGAGGAAAAGGTTGATGCAGTGATY	
107391 T	G	A	TCATATCACTGCATCAACCTTTCATGAGTTTATGTATATAACTAAATTCTATGGCAAAGCATACATGAGAACTATCCTA	
107391 T	A	A	TCATATCACTGCATCAACCTTTTATGAGTTTATGTATATAACTAAATTCTATGGCAAAGCATACATGAGAACTATCCTA	
107391 IS	(GA)		TCTCTAGGATAGTTCTCATGTATGCTTTGCCATAGAATTTAGTTATATACATAAACTCATT(GA)AAAGGTTGATGCAGTGATATGATATATTTAATGACTCTGTAGATTA TTATTAGCTTCCTA	
107408 I		A	TGCTTCCCCGCCCTGTCTCTGGGTT	
107408 P	A	A	CGCGCCGAGGACTTTCTACCAACACTGGY	
107408 P	G	A	ATGACGTGGCAGACGCTTTCTACCAACACTGGY	
107408 T	A	A	CAGCCCAGTGTTGCTAGAAAGCACCACAGACAGGGCCGGGGAAGCAGG	
107408 T	G	A	CAGCCCAGTGTTGATAGAAAGCACCACAGACAGGGCCGGGGAAGCAGG	
107408 IS	(AG)		CCAGGAGTCTGTGGGCAAAAGTCAGCTTCTTCCCTCCCTGCTTCCCCGCCCTGTCTCTGGT(AG)CTTTCTACCAACACTGGGCTGTTTCTGTGATCACACTTAAGCGTACCTA ACCTGCGAATG	
107413 I		S	CCCTTCTCAGCTTCTGTTTGCTCACTTTGCTTTCTCT	
107413 P	C	S	ATGACGTGGCAGACGTCCATTTCTAGAACACTCTGY	
107413 P	T	S	CGCGCCGAGGATCCATTTCTAGAACACTCTGY	
107413 T	C	S	GGTCCAGAGTGTTCTAGAAATGGAGTGAGAAAGCAAAGTGAGCAAACAGAAGCTCAGAAGCGAA	
107413 T	T	S	GGTCCAGAGTGTTCTAGAAATGGATGAGAAAGCAAAGTGAGCAAACAGAAGCTCAGAAGCGAA	
107413 IS	(CT)		TGATATTGCCCTGGACAGCCTGGCCAGTTTCCTCCAGGTCCACAGTGTTCTAGAAATGGA(CT)CAGAAAGCAAAGTGAGCAAACAGAAGCTCAGAAGGGAACACTGGTT TGTTCTCCAGCACA	
107470 I		S	CTCACCTCCCACCTGTCTCGAGCCAGT	
107470 P	C	S	ATGACGTGGCAGACGGCAAGCCAATACCATAGY	
107470 P	T	S	CGCGCCGAGGAGCAAGCCAATACCATAGY	
107470 T	C	S	CAGTCTATGGTATTGGCTTGCCCTGGGCTCAGACAGGTGGGAAGGTGAGCA	
107470 T	T	S	CAGTCTATGGTATTGGCTTGCTCTGGGCTCAGACAGGTGGGAAGGTGAGCA	
107470 IS	(CT)		CTCTTCTCTTTGGTGACCCTGCCCATGGCATTCTAAGCCAGTCTATGCTATTGGCTTGC(CT)CTGGGCTCAGACAGGTGGGAAGGTGAGCAGAGAAGCTACCCAGCCTGT AGGCCTGACCCT	
107471 I		S	TGCGCATGGTGCAGGGCAGGCA	
107471 P	G	S	ATGACGTGGCAGACCGATCTGCACTGGAGAY	
107471 P	A	S	CGCGCCGAGGTGATCTGCACTGGAGAGY	
107471 T	G	S	TTGTCTCTCCAGTGCAGATCAGCCTGCCCTCCACCATGCGCATG	
107471 T	A	S	TTGTCTCTCCAGTGCAGATCAGCCTGCCCTCCACCATGCGCATG	
107471 IS	(GA)		TGACCCCTCTGTGTTCACCTACTCTGCTCTCAGCCCCACCTTGTCTCTCCAGTGCAGATC(GA)GCCTGCCCTCCACCATGCGCATGCAGCATGGCTGACGGCACTGTATACAT AGCCCAGCAGA	
107512 I		S	TGAATTATGGAAGAAGTTAAAGATAATCAGATTTATGGGCAAAATGTCAA	
107512 P	A	S	CGCGCCGAGGTGTCTGAGATTTGATTTAATACTCY	
107512 P	G	S	ATGACGTGGCAGACGCTCTGAGATTTGATTTAATACTY	
107512 T	A	S	CTTAGAGTATTAAAATCAAATCTCAGACATGACATTTTGCCCATAAATGTCATTATCTTTAACTTCTTCCATAATTCAGA	
107512 T	G	S	CTTAGAGTATTAAAATCAAATCTCAGACGTGACATTTTGCCCATAAATGTCATTATCTTTAACTTCTTCCATAATTCAGA	
107512 IS	(AG)		GTATCCAATCTTGTTTTATTGTCATTTTTCTCTTCTAGAGTATTAAAATCAAATCTCAGACA(AG)TGACATTTTGCCCATAAATGTCATTATCTTTAACTTCTTCCATAATTC AGATATTTCTG	
107513 I		S	GTGGCCACGCAGCCTCCTTGGGGA	
107513 P	G	S	ATGACGTGGCAGACCGGCGCACAGAAGGCY	
107513 P	A	S	CGCGCCGAGGTGGCGCACAGAAGGCY	
107513 T	G	S	CGTGGCCTTCTGTCGCCGCCCCAAGGAGGCTCGTGGCCACAC	
107513 T	A	S	CGTGGCCTTCTGTCGCCACCCCAAGGAGGCTCGTGGCCACAC	
107513 IS	(GA)		ACAGCACACACCTCGCCCTGTGGAGGCAGCAGGCTGTCACTCCGTGGCCTTCTGTCGCC(GA)CCCCAAGGAGGCTCGTGGCCACACGTCTGGGCCACTCTCTCTTTGGA AAACTGAGACTC	
107514 I		S	ACAGTTCGTCAAGTAAGTCTAGGGGCAGGTGCA	
107514 P	A	S	CGCGCCGAGGTGGTGCATGTCCACTY	
107514 P	G	S	ATGACGTGGCAGACCGGTGCATGTCCACY	
107514 T	A	S	GGGAAGTGGACATGCACCGGACACCTGCCCCTAGACTTACTTGACGAACTTGTCC	
107514 T	G	S	GGGAAGTGGACATGCACCGGACACCTGCCCCTAGACTTACTTGACGAACTTGTCC	
107514 IS	(AG)		CATAGTACCATGAAAAGACCCCCGCCGCCACCCACACCCCTGGGAAGTGGACATGCACC(AG)GCACCTGCCCCTAGACTTACTTGACGAACTTGTCCACGTGGGACATGG AGGCCTCGTAGT	
107526 I		S	GGGCCCAGGCAGCAGAGGAAACAA	
107526 P	G	S	ATGACGTGGCAGACCGTAGACCTCCCCAGY	
107526 P	A	S	CGCGCCGAGGTGTAGACCTCCCCAGAY	

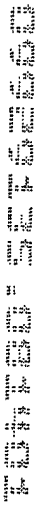


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84151 IS	[AT]				
84156 I		S	ACATGTTAAGGCAGGTTCTATCCCAGAAAACAGAAAATCATGTCCTT		
84156 P	G	S	CGCGCCGAGGCCTTCTTATTTACATCTTGTTCATTGTT		
84156 P	T	S	CGCGCCGAGGACTTCTTATTTACATCTTGTTCATTGTT		
84156 T	G	S	ATCAAAACAATGAACAAGATGTAAATAAGAAGGAGGACATGATTTTCTGTTTTCTGGGATAGAACCTGCCTTAACATGTAA		
84156 T	T	S	ATCAAAACAATGAACAAGATGTAAATAAGAAGTAGGACATGATTTTCTGTTTTCTGGGATAGAACCTGCCTTAACATGTAA		
84156 IS	[GT]				
103198 I		A	CCTGGAACGCGCCTTGTACCTGCTCT		
103198 P	A	A	CGCGCCGAGGATAAGGAGGGTAAGATACCAG		
103198 P	G	A	ATGACGTGGCGAGACGTAAGGAGGGTAAGATACCA		
103198 T	A	A	CACTCTGGTATCTTACCCTCCTTATGAGCAGGTACAAGGCGCGTTCCAGG		
103198 T	G	A	CACTCTGGTATCTTACCCTCCTTACGAGCAGGTACAAGGCGCGTTCCAGG		
103198 IS	[AG]				
103205 I		A	GGAGGTGGAGAGGAAGCAGAAGGGCTT		
103205 P	C	A	CGCGCCGAGGCTGAAGGTGAGTGCTTG		
103205 P	G	A	ATGACGTGGCGAGACGTGAAGGTGAGTGCTTG		
103205 T	C	A	ACCACAAGCACTCACCTTCAGAGCCCTTCTGCTTCCTCTCCACCTCCCT		
103205 T	G	A	ACCACAAGCACTCACCTTCACAGCCCTTCTGCTTCCTCTCCACCTCCCT		
103205 IS	[CG]				
103212 I		A	GCTCATCCACCAAGAAGCCTGCACCT		
103212 P	A	A	CGCGCCGAGGATGTTTTGAGGTTGAGTGA		
103212 P	G	A	ATGACGTGGCGAGACGTGTTTTGAGGTTGAGTGA		
103212 T	A	A	CATGTCACTCAACCTCAAAACATGGTGCAGGCTTCTTGGTGGATGAGCTT		
103212 T	G	A	CATGTCACTCAACCTCAAAACACGGTGCAGGCTTCTTGGTGGATGAGCTT		
103212 IS	[AG]				AGTR1
103217 I		S	CTGTGTTCCAAGTTCCACGAAATAGCTCAAGAAGTTAACCAT		
103217 P	C	S	ATGACGTGGCGAGACGTTCCGTTCCAGCCT		
103217 P	T	S	CGCGCCGAGGATTCCGTTCCAGCCT		
103217 T	C	S	AAGAAGGCTGGAACGGAACTGGTTAACTTCTTGAGCTATTTCGTGGAACTTGGAACACAGCC		
103217 T	T	S	AAGAAGGCTGGAACGGAAATGGTTAACTTCTTGAGCTATTTCGTGGAACTTGGAACACAGCC		
103217 IS	[CT]				APOA2
103226 I		A	CCGGTCCTGGTGGTGGTTCTGTCGATT		
103226 P	C	A	CGCGCCGAGGCGTCTTGGAAGGTAAAAGT		
103226 P	G	A	ATGACGTGGCGAGACGGTCTTGGAAGGTAAAAGT		
103226 T	C	A	TCCCACTTTTACCTTCCAAGACGATCGACAGAACTACTACAGGAACCGGA		
103226 T	G	A	TCCCACTTTTACCTTCCAAGACCATCGACAGAACTACTACAGGAACCGGA		
103226 IS	[CG]				
103236 I		S	CTCTCCTGAGACTACCTGGAGGCCAGGGT		
103236 P	G	S	CGCGCCGAGGCTTCCCAGGGTCCC		
103236 P	C	S	ATGACGTGGCGAGACGTTCCCAGGGTCCC		
103236 T	G	S	AGCTGGGACCCTGGGAAGCCCTGGCCTCCAGGTAGTCTCAGGAGAGCT		
103236 T	C	S	AGCTGGGACCCTGGGAAACCCCTGGCCTCCAGGTAGTCTCAGGAGAGCT		
103236 IS	[GC]				
103259 I		A	TGAGTCAGGGCCCAGAGCCTGAGTTTTCTT		
103259 P	C	A	CGCGCCGAGGCTTTGTGGGGCTTGG		
103259 P	G	A	ATGACGTGGCGAGACGTTTGTGGGGCTTGG		
103259 T	C	A	CACGCCAAGCCCCACAAACAGAAAACTCAGCCTCTGGGCCCTGACTCAGG		
103259 T	G	A	CACGCCAAGCCCCACAAACAGAAAACTCAGCCTCTGGGCCCTGACTCAGG		
103259 IS	[CG]				DRD2
103265 I		S	CAACCAGGGCGCGTCCGCACC		
103265 P	T	S	CGCGCCGAGGAGACTTGGAGCCGG		
103265 P	A	S	ATGACGTGGCGAGACTGACTTGGAGCCGG		
103265 T	T	S	GCAGCCGCCTCCAAGTCTGTGCGGACGCGCCCTGGTTGCG		
103265 T	A	S	GCAGCCGCCTCCAAGTCAGTGCGGACGCGCCCTGGTTGCG		
103265 IS	[TA]				EDNRB
103268 I		A	ATCCCTATAGTTTTACAAGACAGCAAAAGATTGGTGGCTT		
103268 P	G	A	ATGACGTGGCGAGACGTTCAGTTTCTATTTCTGCTTG		
103268 P	A	A	CGCGCCGAGGATTCAGTTTCTATTTCTGCTTG		
103268 T	G	A	ATGGCAAGCAGAAATAGAAACTGAACAGCCACAAATCTTTTGCTGTCTTGTAAAACTATAGGGAT		
103268 T	A	A	ATGGCAAGCAGAAATAGAAACTGAATAGCCACAAATCTTTTGCTGTCTTGTAAAACTATAGGGAT		
103268 IS	[GA]				
103271 I		S	TCCCATGCTCCCCACTGCCCTCAAAGT		
103271 P	C	S	ATGACGTGGCGAGACGAGAAAGCTTAGTGGGAAT		
103271 P	T	S	CGCGCCGAGGAAGAAAGCTTAGTGGGAATG		
103271 T	C	S	GTGCCATTCCCACTAAGCTTTCTCCTTTGAGGGCAGTGGGGAGCATGGGACT		
103271 T	T	S	GTGCCATTCCCACTAAGCTTTCTTCTTTGAGGGCAGTGGGGAGCATGGGACT		
103271 IS	[CT]				GNB3
7143 I		A	CTCAGGCAAGGGAGCTAGCAGCCAGT		
7143 P	INS	A	CGCGCCGAGGGAGCCAGGCACAGAGAT		
7143 P	DEL	A	CGCGCCGAGGGCACAGAGAAGCCCCY		
7143 T	INS	A	GGCTTCTCTGTGCCTGGCTCCTGGCTCCTGGCTCCCTCCCTCAGCA		
7143 T	DEL	A	GACGGGGGCTTCTCTGTGCCTGGCTCCTGGCTCCCTCCCTCAGCA		
7143 IS	(AGCCAGG-)				
7588 I		A	TCCACCAGGTTTATCCTGTACCTCAGCCACATGTAAGAAA		
7588 P	C	A	CGCGCCGAGGCGGCCCATAGCTACACA		
7588 P	T	A	CGCGCCGAGGTGGCCCATAGCTACACA		
7588 T	C	A	AGAATGTGTAGCTATGGGCCCTTCTTACATGTGGCTGAGGTACAGGATAAACCTGGTGGAAA		
7588 T	T	A	AGAATGTGTAGCTATGGGCCCATTCTTACATGTGGCTGAGGTACAGGATAAACCTGGTGGAAA		
7588 IS	[CT]				



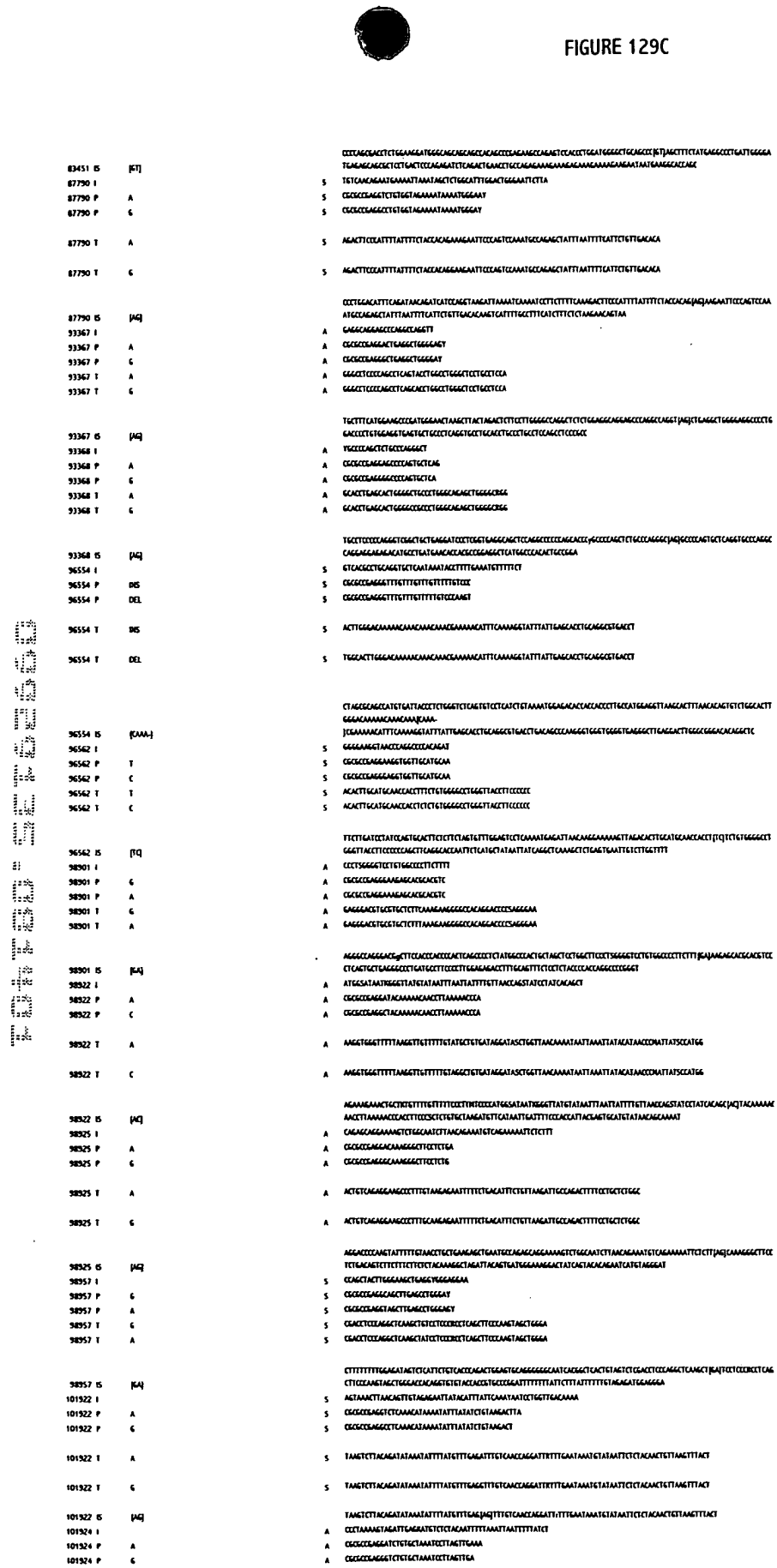


FIGURE 129C

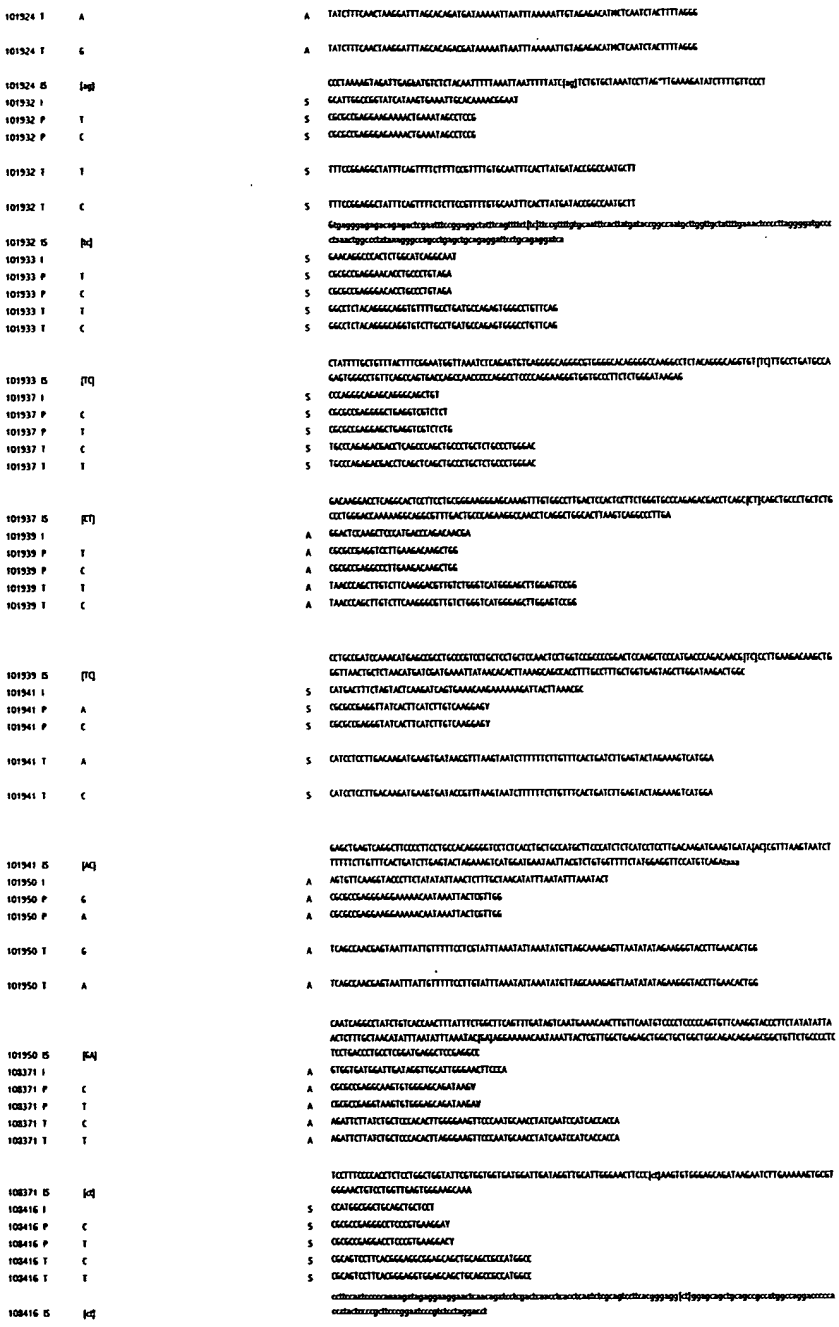


FIGURE 129D

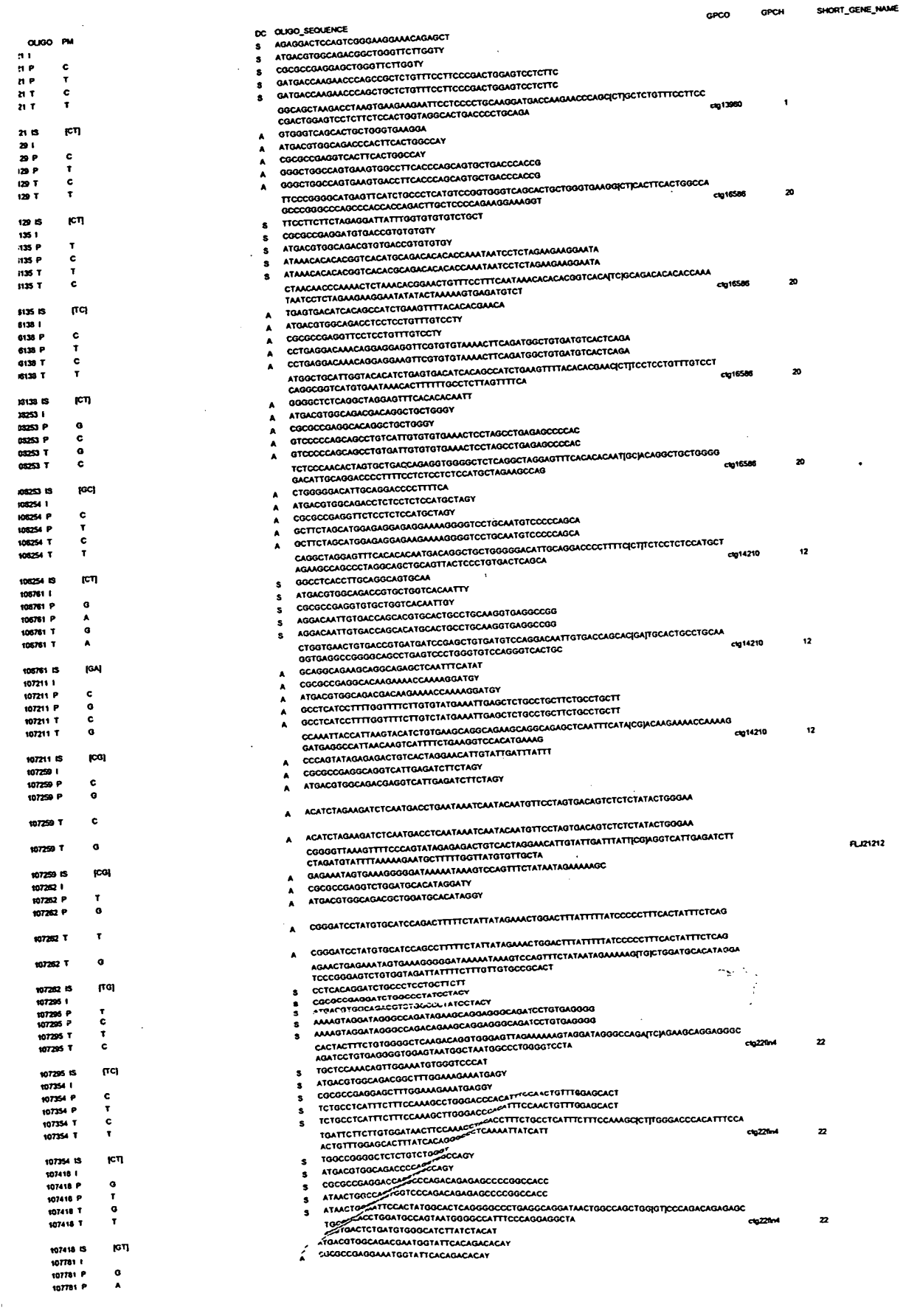
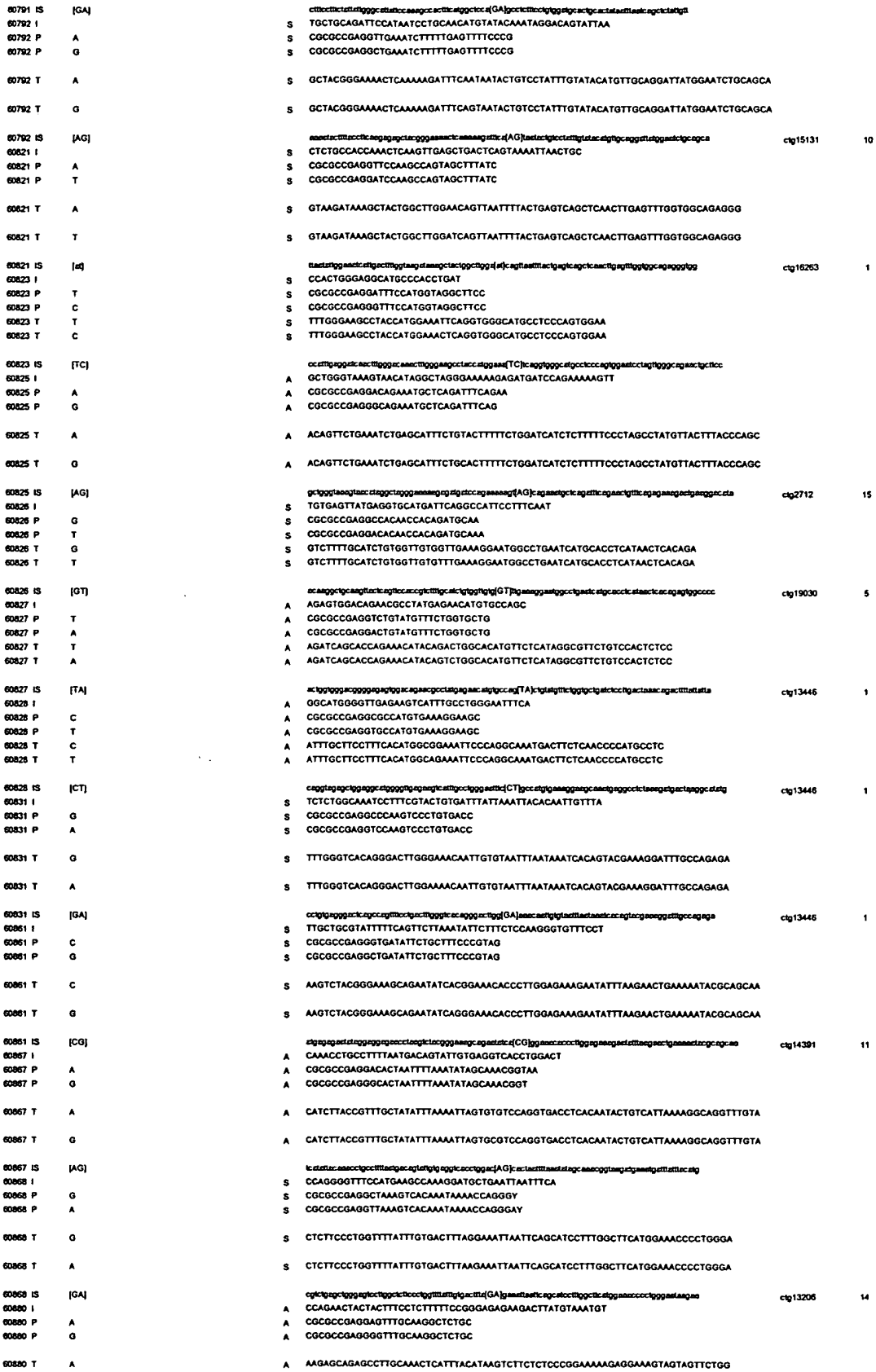

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GPCO GPCH SHORT_GENE_NAME
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ctg22fin4 22
ctg22fin4 22
FLJ21212

FIGURE 129D

107781 T	G	A	TATGTGTGTCTGTGAATACCATTCTGTAGATAAGATGCCCACATCAGAGTCAGGACAA				
107781 T	A	A	TATGTGTGTCTGTGAATACCATTTTGTAGATAAGATGCCCACATCAGAGTCAGGACAA				
107781 tS	[GA]		ACTGAAGGTGATTTCGTATCTTCTTTTTGTCCTGACTCTGATGTGGGCATCTTATCTACA[GA]AATGGTATTCACAGAC ACACATATGAGAACATTTATTACTGTAAATTATAAAAACATACA				
107936 I		S	GTGAGTGGTCGCCGATCGCCCCT				
107936 P	C	S	ATGACGTGGCAGACGAGAGTCAGGTCCTGGY				
107936 P	T	S	CGCGCCGAGGAAGAGTCAGGTCCTGGY				
107936 T	C	S	CGCCCCAGGACCTGACTCTCGGGGCGATCGGCGACCACTCACCT				
107936 T	T	S	CGCCCCAGGACCTGACTCTTGGGGCGATCGGCGACCACTCACCT				
107936 tS	[CT]		GAGAGCGAAGTTAGGTGGTGCAGGAAAAGAGCCTTTATGCGCGCCCCAGGACCTGACTCT[CT]GGGGCGATCGGCG ACCACTCACCTTGTGCCTGCGCCTCCATGGTGGCTGACTTCGAGCTG	ctg17326	12		
109381 I		A	CCGAGGCTGCGGCAGCTAAAGGTCA				
109381 P	C	A	ATGACGTGGCAGACCGCAATGACTCCTGTGY				
109381 P	T	A	CGCGCCGAGGTGCAATGACTCCTGTGTY				
109381 T	C	A	CACCACACAGGAGTCATTGCGGACCTTTAGCTGCCGCAGCCTCGGAA				
109381 T	T	A	CACCACACAGGAGTCATTGCAGACCTTTAGCTGCCGCAGCCTCGGAA				
109381 tS	[CT]		TCCTTCATCTACTATGAGAACATGCTGCTGGGGGTTCCGAGGCTGCGGCAGCTAAAGGTC[CT]GCAATGACTCCTGT GTGGTGCATGAAGACTTCCGGGAGGACATTCTGAGCTGCTATGATG	ctg17326	12	PKD2L1	
110078 I		S	CTGCTCCTGGCCAGCACTAGCCCC				
110078 P	C	S	ATGACGTGGCAGACGACACTGCTCTGGCCY				
110078 P	A	S	CGCGCCGAGGTACACTGCTCTGGCCY				
110078 T	C	S	GGGTGGCCAGAGCAGTGTCGGGCTAGTGCTGGCCAGGAGCAGGC				
110078 T	A	S	GGGTGGCCAGAGCAGTGTAGGGCTAGTGCTGGCCAGGAGCAGGC				
110078 tS	[CA]		AAAGGATGGGTCAGGAAGGGTCAGCCAGGTGAGCGCCAAGTGGGGTGGCCAGAGCAGTGT[CA]GGGCTAGTGCTG GCCAGGAGCAGGCTGGGTGCTCACCATGTTCCGAGGGTTGGACATGAG	ctg17326	12		
45119 I		A	AACAATACCACACTACTCATGCTTGTTAATAGGCAGGAGAATAGACATAAT				
45119 P	A	A	CGCGCCGAGGAAGGTTATACTTGGGTTTAAACCT				
45119 P	G	A	CGCGCCGAGGGAGGTTATACTTGGGTTTAAACCT				
45119 T	A	A	GGTGAGGTTTAAACCCAAGTATAACCTTTTATGTCTATTCTCCTGCCTATTAACAAGCATGAGTAGTGTGGTATTGTT				
45119 T	G	A	GGTGAGGTTTAAACCCAAGTATAACCTCTTATGTCTATTCTCCTGCCTATTAACAAGCATGAGTAGTGTGGTATTGTT				
45119 tS	[AG]		[redacted][AG][redacted]	ctg13206	14		
45277 I		S	CTAAAGTTGCCTTACAAATAACTGTGAGAAAGTAAATGTTACATCAACACT				
45277 P	C	S	CGCGCCGAGGGGCGTATAAAAGCAACAAGGY				
45277 P	T	S	CGCGCCGAGGAGCGTATAAAAGCAACAAGGCY				
45277 T	C	S	TTTAGCCTTGTTGCTTTTATACGCCGTGTTGATGTAACATTTACTTTCTCACAGTTATTTGTAAGGCAACTTTAG				
45277 T	T	S	TTTAGCCTTGTTGCTTTTATACGCTGTGTTGATGTAACATTTACTTTCTCACAGTTATTTGTAAGGCAACTTTAG				
45277 tS	[CT]		TCCCTAACCTTAAAGCAATTGTATTTTTTAGCCTTGTTGCTTTTATACGC[CT]GTGTTGATGTAACATTTACTTTCTCAC AGTTATTTGTAAGGCAACTTTAG	ctg13206	14		
45280 I		A	CCAACTACATCAAGACATCATAGCAGACAGGCAGAATGTTCCAT				
45280 P	G	A	CGCGCCGAGGGAAACAGTCCTTTAGGCATTCT				
45280 P	A	A	CGCGCCGAGGAAAACAGTCCTTTAGGCATTCT				
45280 T	G	A	GAACAGAATGCCTAAAGGACTGTTTCTGGAACATTCTGCCTGTCTGCTATGATGTCTTGATGTAGTTGGCG				
45280 T	A	A	GAACAGAATGCCTAAAGGACTGTTTTTGGAACATTCTGCCTGTCTGCTATGATGTCTTGATGTAGTTGGCG				
45280 tS	[GA]		AACCTCGCCAACTACATCAAGACATCATAGCAGACAGGCAGAATGTTCCA[GA]AAACAGTCCTTTAGGCATTCTGTTCT TCCCTGGAATCTGCTTGCTTTCTT				
45438 I		S	AGGAATCCAAGATTTGCTATGCCTCATATCATAAATGAAAAGGAAATACTT				
45438 P	C	S	CGCGCCGAGGGAAGATAATTACTTAAAACCTATCCAACAG				
45438 P	T	S	CGCGCCGAGGAAAGATAATTACTTAAAACCTATCCAACAG				
45438 T	C	S	AATTCTGTTGGATAGGTTTTAAGTAATTATCTTCAGTATTTCCTTTTCATTTATGATATGAGGCATAGCAAATCTTGGAT TCCT				
45438 T	T	S	AATTCTGTTGGATAGGTTTTAAGTAATTATCTTTAGTATTTCCTTTTCATTTATGATATGAGGCATAGCAAATCTTGGAT TCCT				
45438 tS	[CT]		AAACTTACACCGAAGATAATTCTGTTGGATAGGTTTTAAGTAATTATCTT[CT]AGTATTTCCTTTTCATTTATGATATGAG GCATAGCAAATCTTGGATTCCT	ctg12325	11		
45440 I		S	GGCTTTCTTCCTGAGTTCTAGCCACCCCATATTGCATT				
45440 P	C	S	CGCGCCGAGGGGGCCAGAGAGTGCT				
45440 P	T	S	CGCGCCGAGGAGGCCAGAGAGTGCTC				
45440 T	C	S	CTAAGAGCACTCTCTGGCCCATGCAATATGGGGTGGCTAGAACTCAGGAAGAAAGCCAC				
45440 T	T	S	CTAAGAGCACTCTCTGGCCTATGCAATATGGGGTGGCTAGAACTCAGGAAGAAAGCCAC				
45440 tS	[CT]		GGGTAAAAGCTTCACTTATGTGGCTTTTCCTCTAAGAGCACTCTCTGGCC[CT]ATGCAATATGGGGTGGCTAGAACTC AGGAAGAAAGCCACAGTCTTATTGA	ctg12325	11		
60786 I		S	CAACCTTTGTGCTTGAATAAACTCTAAACTACAATCTCACCCTTTTGATTT				
60786 P	C	S	CGCGCCGAGGGTTTTAGGTTCACGCTAAATATGTAC				
60786 P	T	S	CGCGCCGAGGATTTTAGGTTCACGCTAAATATGTACT				
60786 T	C	S	TTTAAGTACATATTTAGCGTGAACCTAAAACAATCAAAAGGGTGAGATTGTAGTTTAGAGTTTATTCAAGCACAAAGGT TG				
60786 T	T	S	TTTAAGTACATATTTAGCGTGAACCTAAAATAATCAAAAGGGTGAGATTGTAGTTTAGAGTTTATTCAAGCACAAAGGTT G				
60786 tS	[CT]		[redacted][CT][redacted]	ctg15064	7		
60787 I		S	TTTAGGTACCATCAGTCTCTTGAATGTATAAACAGACTGAATTCATAAACA				
60787 P	A	S	CGCGCCGAGGTCCTACTGAAACTAACATGCTTT				
60787 P	G	S	CGCGCCGAGGCCCTACTGAAACTAACATGCTT				
60787 T	A	S	TTACAAAGCATGTTAGTTTCAGTAGGAGTTTATGAATTCAGTCTGTTTATACATTCAAGAGACTGATGGTACCTAAA				
60787 T	G	S	TTACAAAGCATGTTAGTTTCAGTAGGGGTTTATGAATTCAGTCTGTTTATACATTCAAGAGACTGATGGTACCTAAA				
60787 tS	[AG]		[redacted][AG][redacted]	ctg15064	7		
60790 I		A	GCCTCCGTACCACTCATACACTGGGGAGGTAT				
60790 P	C	A	CGCGCCGAGGCGGGAAGTGACTCAAATTGC				
60790 P	A	A	CGCGCCGAGGAGGGAAGTGACTCAAATTGC				
60790 T	C	A	TTGAGCAATTTGAGTCACTTCCCGTACCTCCCCAGTGTATGAGTGGTACGGAGGCCC				
60790 T	A	A	TTGAGCAATTTGAGTCACTTCCCTTACCTCCCCAGTGTATGAGTGGTACGGAGGCCC				
60790 tS	[CA]		[redacted]	ctg15064	7		
60791 I		A	TGGGCATTATTCCAAAGCCACTTTCATGGCTCCAT				
60791 P	G	A	CGCGCCGAGGGGCCTCTTTCCTGTGGA				
60791 P	A	A	CGCGCCGAGGAGCCTCTTTCCTGTGGAT				
60791 T	G	A	GTGCATCCACAGGAAAGAGGCCTGGAGCCATGAAAGTGGCTTTGGAATAATGCCCAAT				
60791 T	A	A	GTGCATCCACAGGAAAGAGGCTTGGAGCCATGAAAGTGGCTTTGGAATAATGCCCAAT				

FIGURE 129D



Filed Under Seal

FIGURE 129D

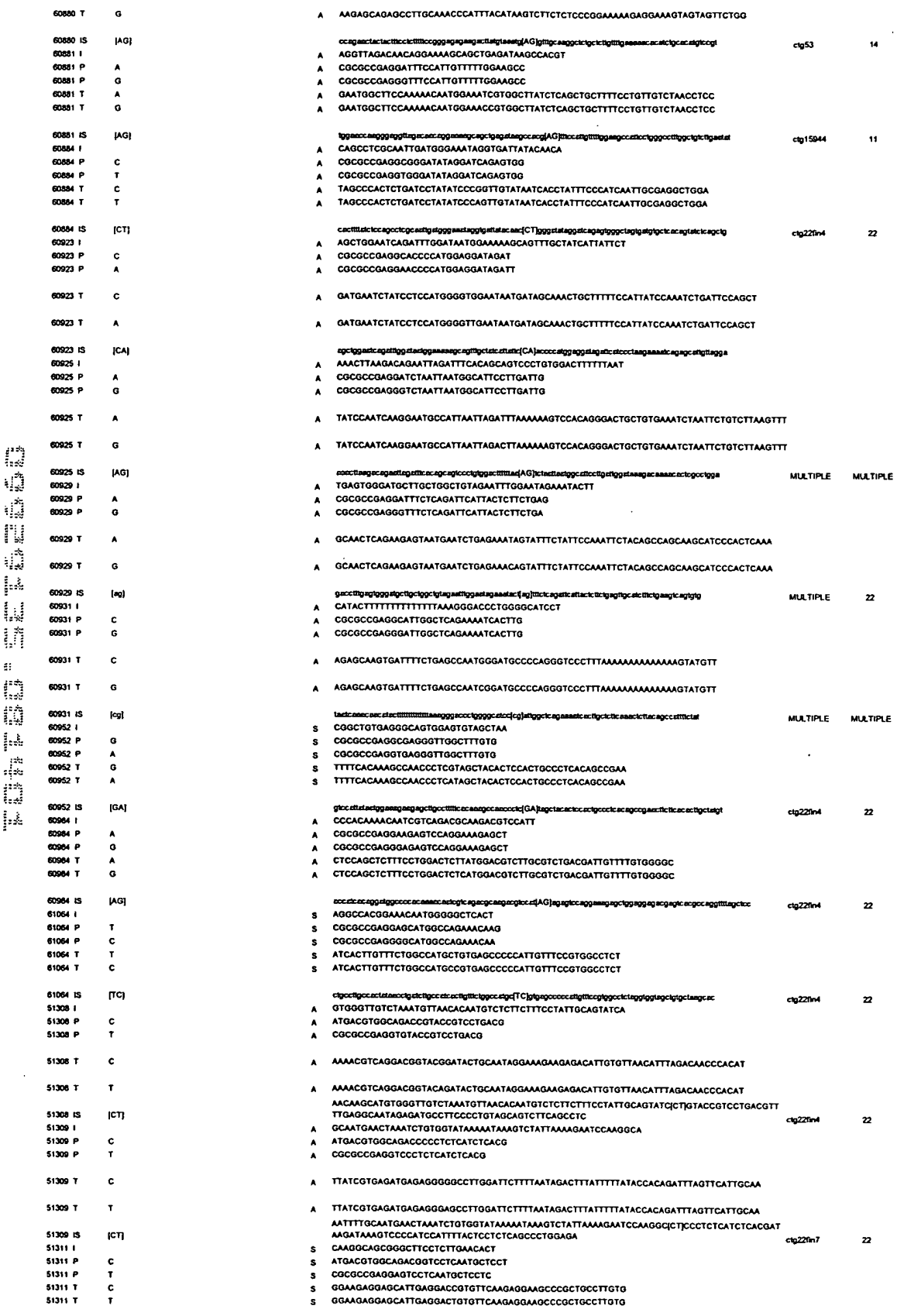


FIGURE 129D

				CGGCGTTTCTCCCTCATGACGCTGCGGAATTTTGGGATGGGGAAGAGGAGCATTGAGGAC[CT]GTGTTCAAGAGGAA				
51311 IS	[CT]			GCCCGCTGCCTTGTGGAGGAGTTGAGAAAAACCAAGGGTGGGTGAC				
51312 I			A	AGATGCTGTGGTGCACGAGGTCCAGAGATACT				
51312 P	A		A	CGCGCCGAGGATTGACCTTCTCCCCAC				
51312 P	C		A	ATGACGTGGCAGACCTTGACCTTCTCCCCA				
51312 T	A		A	GCTGGTGGGGAGAAGGTCAATGTATCTCTGGACCTCGTGCACCACAGCATCTGT				
51312 T	C		A	GCTGGTGGGGAGAAGGTCAAGGTATCTCTGGACCTCGTGCACCACAGCATCTGT				
				ATGCAAGACAGGAGCCACATGCCCTACACAGATGCTGTGGTGCACGAGGTCCAGAGATAC[AC]TTGACCTTCTCCCC				
51312 IS	[AC]			ACCAGCCTGCCCCATGCAGTGACCTGTGACATTAAATTCAGAAACT				MULTIPLE SHORT GENE NAMES
51314 I			S	GCAGTGGCAGGGGGCCTGGTGT				
51314 P	C		S	ATGACGTGGCAGACGGTAGCGTGCAGC				
51314 P	T		S	CGCGCCGAGGAGTAGCGTGCAGCC				
51314 T	C		S	GCTGGGCTGCACGCTACCCACCAGGCCCCCTGCCACTGCCC				
51314 T	T		S	GCTGGGCTGCACGCTACTCACCAGGCCCCCTGCCACTGCCC				
				GCCATCTTCCTGCTCCTGGTGGACCTGATGCACCGGCGCCAACGCTGGGCTGCACGCTAC[CT]CACCAGGCCCCCT				
51314 IS	[CT]			GCCACTGCCCGGGCTGGGCAACCTGCTGCATGTGGACTTCCAGAACA				CYP2D6
51315 I			S	CAGGCGGCCTCCTCGGTCACCT				
51315 P	INS		S	CGCGCCGAGGCACTGCTCCAGCGA				
51315 P	DEL		S	ATGACGTGGCAGACCCTGCTCCAGCGA				
51315 T	INS		S	AGAAGTCGCTGGAGCAGTGGGTGACCGAGGAGGCCGCCTGCC				
51315 T	DEL		S	AGAAGTCGCTGGAGCAGGGGTGACCGAGGAGGCCGCCTGCC				
				AGGCGCTTCTCCGTGTCCACCTTGCGCAACTTGGGCCTGGGCAAGAAGTCGCTGGAGCAG[T-				
51315 IS	[T-]			]GGGTGACCGAGGAGGCCGCCTGCCTTTGTGCCGCCTTCGCCAACCACTCCGGTGGGTGAT	ctg28098	3		
51317 I			S	GCTGGGCTGGGTCCCAGGTCATCT				
51317 P	INS		S	CGCGCCGAGGCTGTGCTCAGTTAGCAG				
51317 P	DEL		S	ATGACGTGGCAGACCGTGCTCAGTTAGCAG				
51317 T	INS		S	ATGAGCTGCTAACTGAGCACAGGATGACCTGGGACCCAGCCCAGCCC				
51317 T	DEL		S	ATGAGCTGCTAACTGAGCACGGATGACCTGGGACCCAGCCCAGCCC				
				AAGGTCCTACGCTTCCAAAAGGCTTTCCTGACCCAGCTGGATGAGCTGCTAACTGAGCAC[A-				
51317 IS	[A-]			]GGATGACCTGGGACCCAGCCCAGCCCCCCGGAGACCTGACTGAGGCCTTCCTGGCAGAGA				CYP2D6
51319 I			A	GCCACCATGGTGTCTTTGCTTTCCTGGTGAT				
51319 P	C		A	CGCGCCGAGGCCCCATCCCCCTATGY				
51319 P	G		A	ATGACGTGGCAGACGCCCATCCCCCTATG				
51319 T	C		A	AGCTCATAGGGGGATGGGGTCACCAGGAAAGCAAAGACACCATGGTGGCTG				
51319 T	G		A	AGCTCATAGGGGGATGGGCTCACCAGGAAAGCAAAGACACCATGGTGGCTG				
				TCTCGGTGCCCACTGGACAGCCCCGGCCCAGCCACCATGGTGTCTTTGCTTTCCTGGTGA[CG]CCCATCCCCCTATG				
51319 IS	[CG]			AGCTTTGTGCTGTGCCCCGCTAGAATGGGGTACCTAGTCCCCAGCC	ctg15131	10		CYP2D6
51320 I			S	CAGGTATGAGCCACTGTGCCCAGCCAAAATAATTTTTTTC				
51320 P	A		S	CGCGCCGAGGTAATTTTTAATCAGCTGGGTGT				
51320 P	T		S	ATGACGTGGCAGACAAATTTTTAATCAGCTGGGTG				
51320 T	A		S	CACCACACCCAGCTGATTAAAAATTAAAAAAAATTATTTTGGCTGGGCACAGTGGCTCATACCTGTA				
51320 T	T		S	CACCACACCCAGCTGATTAAAAATTTAAAAAAATTATTTTGGCTGGGCACAGTGGCTCATACCTGTA				
				TCAGCCTCCCAAGTAACTGGGCCACAGGTGCACACCACCACACCCAGCTGATTAAAAATT[AT]AAAAAAATTATTTTGG				
51320 IS	[AT]			CTGGGCACAGTGGCTCATACCTGTAATCCTGGCACTTTGGGAGG	ctg13446	1		
51321 I			S	AGCAGTTATTTTTAAGAGAGAAAGATAAATTAAAGGAAATAGTAGTCCACATACTTATTGT				
51321 P	C		S	ATGACGTGGCAGACGGAGAAAGAATGGATCCAAA				
51321 P	T		S	CGCGCCGAGGAGAGAAAGAATGGATCCAAAA				
51321 T	C		S	GATTTTTTGGATCCATTCTTTCTCCCAATAAGTATGTGGACTACTATTTCCTTTAATTTATCTTTCTCTCTTAAAAATAAC TGCT				
51321 T	T		S	GATTTTTTGGATCCATTCTTTCTCTCAATAAGTATGTGGACTACTATTTCCTTTAATTTATCTTTCTCTCTTAAAAATAAC TGCT				
				CCCTTTGTGGAAAACACCAAGAAGCTTTTAAGATTTGATTTTTTTGGATCCATTCTTTCTC[CT]CAATAAGTATGTGGACT				
51321 IS	[CT]			ACTATTTCCTTTAATTTATCTTTCTCTCTTAAAAATAACTGCT	ctg13446	1		
51322 I			S	CAAGTGGAGCCATTGGCATAAAATCTATTAAATCGCCTCTCTCA				
51322 P	A		S	CGCGCCGAGGTTGCCCTTGTCTCTATGG				
51322 P	G		S	ATGACGTGGCAGACCTGCCCTTGTCTCTATG				
51322 T	A		S	ACAGCCATAGAGACAAGGGCAAGAGAGAGGCGATTTAATAGATTTTATGCCAATGGCTCCACTTGAG				
51322 T	G		S	ACAGCCATAGAGACAAGGGCAGGAGAGAGGCGATTTAATAGATTTTATGCCAATGGCTCCACTTGAG				
				TGGCTTGTTGGGATGAATTTCAAGTATTTTGGAATGAGGACAGCCATAGAGACAAGGGCA[AG]GAGAGAGGCGATTTA				
51322 IS	[AG]			ATAGATTTTATGCCAATGGCTCCACTTGAGTTTCTGATAAGAACC	ctg13980	1		
51323 I			S	GAGAAGGTAAAACCCAGTGGGAGCTTCTTGTCTTTGATC				
51323 P	A		S	CGCGCCGAGGTTGTAGCTTATCCATGAAGTTA				
51323 P	T		S	ATGACGTGGCAGACATGTAGCTTATCCATGAAGTTAG				
51323 T	A		S	CTGGCTAACTTCATGGATAAGCTACAAATCAAAGACAAGAAGCTCCCACTGGGTTTTACCTTCTCGT				
51323 T	T		S	CTGGCTAACTTCATGGATAAGCTACATATCAAAGACAAGAAGCTCCCACTGGGTTTTACCTTCTCGT				
				GTATCCTTAGCTGTTTGACCACATTGCCGAATGCCTGGCTAACTTCATGGATAAGCTACA[AT]ATCAAAGACAAGAAGC				
51323 IS	[AT]			TCCCACTGGGTTTTACCTTCTCGTTCCCCTGCCACCAGACTAAA	ctg19	19		
51324 I			A	GGGAGAAGGATGGCATCCGGAAGGCCA				
51324 P	C		A	ATGACGTGGCAGACCGTGAGGTCCTGATGC				
51324 P	T		A	CGCGCCGAGGTGTGAGGTCCTGATGC				
51324 T	C		A	AACCGCATCAGGACCTCACGGGCCTTCCGGATGCCATCCTTCTCCCTG				
51324 T	T		A	AACCGCATCAGGACCTCACAGGCCTTCCGGATGCCATCCTTCTCCCTG				
				GACACAGGCCCACATGCTGTCTTTCTGTTTCCCAGGGAGAAGGATGGCATCCGGAAGGCC[CT]GTGAGGTCCTGATG				
51324 IS	[CT]			CGGTTGGGCCTGGACCCGACTCAGGAGGACTGCGTGGCCACTCACC	ctg15907	6		
51325 I			S	CAAGAACTTGGTTTCAAAGATGCCCCTTGTCTTGAGCA				
51325 P	A		S	CGCGCCGAGGTGCTCTGAGATGCGG				
51325 P	G		S	ATGACGTGGCAGACCGCTCTGAGATGCG				
51325 T	A		S	GAGGCCGCATCTCAGAGCAGCTCAAGACAAGGGGCATCTTTGAAACCAAGTTCTTGTC				
51325 T	G		S	GAGGCCGCATCTCAGAGCGGCTCAAGACAAGGGGCATCTTTGAAACCAAGTTCTTGTC				
				GTAACATTCTCATCGATTTCACCAAGCGTGGACTGCTCTTCCGAGGCCGCATCTCAGAGC[AG]GCTCAAGACAAGGG				
51325 IS	[AG]			GCATCTTTGAAACCAAGTTCTTGTCTCAGATTGAGAGGTGAGAGCT	ctg18037	7		
51326 I			A	CCTGGGCTGTGGGTTTGCCTTCTGCA				
51326 P	C		A	ATGACGTGGCAGACCGGGAATGTAAAGAAGCG				
51326 P	T		A	CGCGCCGAGGTGGGAATGTAAAGAAGCG				
51326 T	C		A	GGTACGCTTCTTTACATTCCCGGCAGAAGGCAAACCCACAGCCCAGGCC				
51326 T	T		A	GGTACGCTTCTTTACATTCCCAGCAGAAGGCAAACCCACAGCCCAGGCC				
				GACCAGAGGAAAGTCACCTGCGAAGGGGGCAATGGCCTGGGCTGTGGGTTTGCCTTCTGC[CT]GGGAATGTAAAGA				
51326 IS	[CT]			AGCGTACCATGAAGGGGAGTGCAGTGCCGTATTTGAAGCCTCAGGAA	MULTIPLE	MULTIPLE	PARK2	
51327 I			S	CCATTTGCGATCACCTGGATTAATGGCAACTAATGA				
51327 P	A		S	CGCGCCGAGGTTCCTCTATCCCAAATCATG				
51327 P	G		S	ATGACGTGGCAGACCTCCTCTATCCCAAATCATG				
51327 T	A		S	TTGACATGATTTGGGATAGAGGAACATTAGTTGCCATTAATCCAGGTGATCGCAAATGGTA				
51327 T	G		S	TTGACATGATTTGGGATAGAGGAGCATTAGTTGCCATTAATCCAGGTGATCGCAAATGGTA				

FIGURE 129D

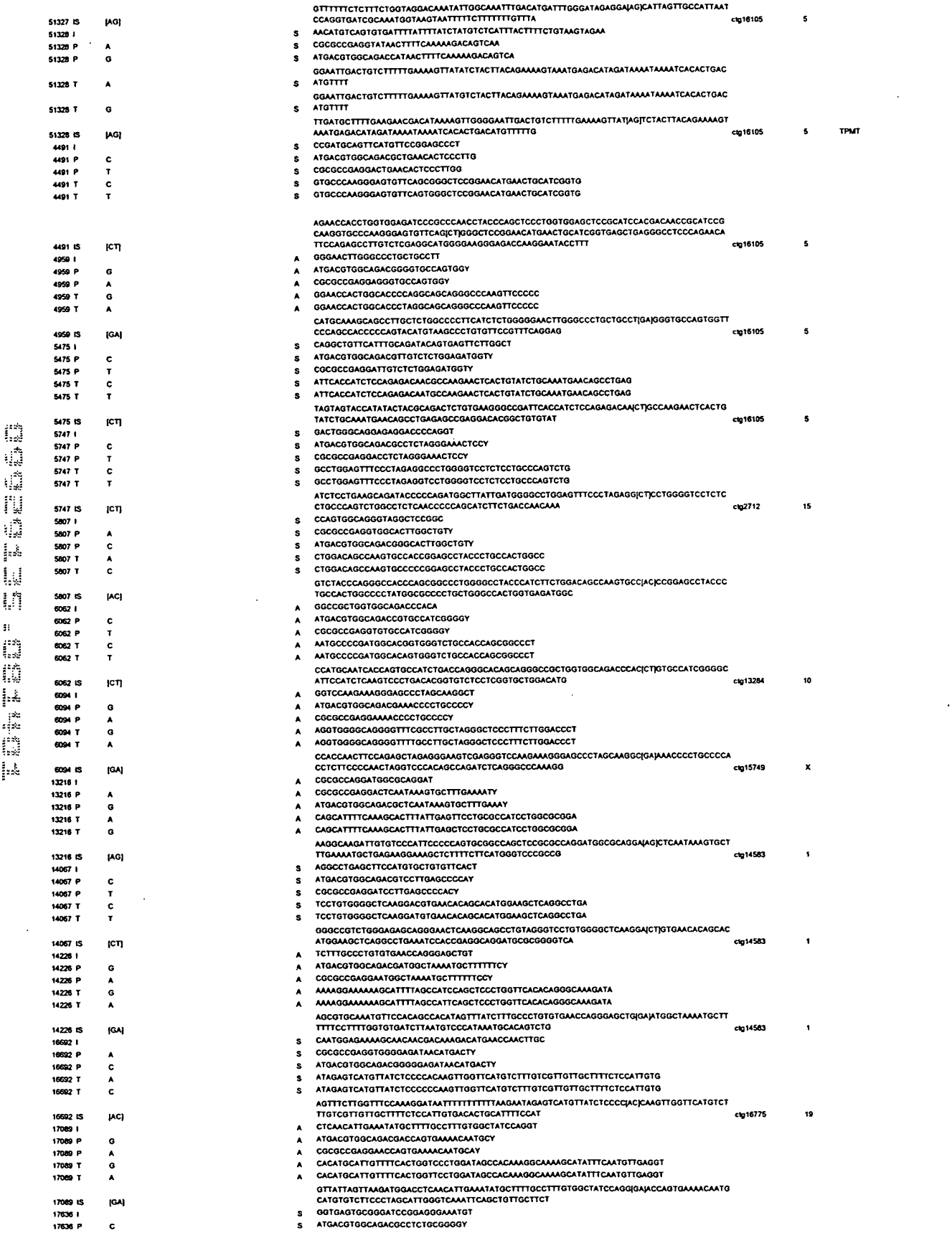


FIGURE 129D

17636	P	T	S	CGCGCCGAGGACCTCTGCGGGGAY			
17636	T	C	S	CTCCTCCCCGCAGAGGCCATTTCCCTCCGGATCCCGCACTCACCCG			
17636	T	T	S	CTCCTCCCCGCAGAGGTCATTTCCCTCCGGATCCCGCACTCACCCG			
17636	IS	[CT]		TGCGCGGCTCCCCGGGTCCTGCGCCCCAGTGCGCGGGCCCCTAGCTCCTCCCCGCAGAGG[CT]CATTTCCCTCCGG ATCCCGCACTCACCCGCCCAGGTCTCGGTCAGGGCCAGGGCCCCCAA			
18355	I		S	TGTGGGGAGGAGTAGCTTGCTAGTAGGAGCTTTATC			
18355	P	C	S	ATGACGTGGCAGACGAAAAAACTAATTGTATAACATTGATGAY			
18355	P	A	S	CGCGCCGAGGTAAAAAACTAATTGTATAACATTGATGAAAY			
18355	T	C	S	TCTCTTTCATCAATGTTATACAATTAGTTTTTTCATAAAGCTCCTACTAGCAAGCTACTCCTCCCCACACT			
18355	T	A	S	TCTCTTTCATCAATGTTATACAATTAGTTTTTTAATAAAGCTCCTACTAGCAAGCTACTCCTCCCCACACT			
18355	IS	[CA]		CTCATTGCTTTTCTCCCATCTTTTCTTTCTCTTTCATCAATGTTATACAATTAGTTTTTT[CA]ATAAAGCTCCTACTAGCA AGCTACTCCTCCCCACACTCAGAAAACCTCCTACCTAAAATC	ctg2712	15	
18467	I		S	ATGGCTCAAAATAGAATTTAGTTGATGGAGGGAGTAGAACA			
18467	P	A	S	CGCGCCGAGGTGGTAATACTCACAGTGTCAY			
18467	P	G	S	ATGACGTGGCAGACCGGTAATACTCACAGTGTCY			
18467	T	A	S	ACCTTGACACTGTGAGTATTACCAGTTCTACTCCCTCCATCAACTAAATTCTATTTTGAGCCATTT			
18467	T	G	S	ACCTTGACACTGTGAGTATTACCGGTTCTACTCCCTCCATCAACTAAATTCTATTTTGAGCCATTT			
18467	IS	[AG]		AATCCCTGTGAATGCTTTTCAGGGACTATGCAATGAAACCTTGACACTGTGAGTATTACC[AG]GTTCTACTCCCTCCAT CAACTAAATTCTATTTTGAGCCATTTTCATATGTTTACAGACCA	ctg2712	15	
18622	I		A	CCAAGTTTTGCATTATTCTCAGAGGAGCTCAGCAGATTCAGA			
18622	P	T	A	CGCGCCGAGGTGAACAGGAGCCTTGAY			
18622	P	C	A	ATGACGTGGCAGACCGAACAGGAGCCTTGAY			
18622	T	T	A	GAGTTCAAGGCTCCTGTTCACTGAATCTGCTGAGCTCCTCTGAGAATAATGCAAAACTTGGCT			
18622	T	C	A	GAGTTCAAGGCTCCTGTTCGCTGAATCTGCTGAGCTCCTCTGAGAATAATGCAAAACTTGGCT			
18622	IS	[TC]		CCACATGGTGGTAGAATAGCCAAGTTTTGCATTATTCTCAGAGGAGCTCAGCAGATTCAG[TC]GAACAGGAGCCTTGA ACTCCATGATGTCGCCCTGCTCCCCTCTTTTGGGAAGAACGCGT	ctg2712	15	
18668	I		S	AGGGGGCTTCGGCGCGCTT			
18668	P	C	S	ATGACGTGGCAGACGGATAGTGGAAGGGGCY			
18668	P	G	S	CGCGCCGAGGCGATAGTGGAAGGGGCY			
18668	T	C	S	CCCCGCCCCTTCCACTATCCAGCGCGCCGAAGCCCCCTGC			
18668	T	G	S	CCCCGCCCCTTCCACTATCGAGCGCGCCGAAGCCCCCTGC			
18668	IS	[CG]		CCACCTCGCCCTTGCTTTCGCTCGCCCTTTTAGGGGGCTTTCCCCGCCCCTTCCACTATC[CG]AGCGCGCCGAAGCC CCCTGCCCAGAGCTCGGCTTTGCTACCTGGATCCGCTTCTTGTGTC			
18907	I		A	GGGTCCCAGAGAAAGATTTCCTTCTCTTAGAAGTGCATGTT			
18907	P	A	A	CGCGCCGAGGATATGTGGAGGGAGGGY			
18907	P	G	A	ATGACGTGGCAGACGTATGTGGAGGGAGGGY			
18907	T	A	A	TTTTCCCTCCCTCCACATATACATGCACTTCTAAGAGAAGGAAATCTTTCTCTGGGACCCCG			
18907	T	G	A	TTTTCCCTCCCTCCACATACACATGCACTTCTAAGAGAAGGAAATCTTTCTCTGGGACCCCG			
18907	IS	[AG]		TTGGAGGCCAGGGGAATACGGGGTCCCAGAGAAAGATTTCCTTCTCTTAGAAGTGCATGT[AG]TATGTGGAGGGAGG GAAAAGGGTCCTATAGAATGAGGGAAGACAAAAATGTTTTATTCCT	ctg_na	NA	
18962	I		S	CGGGCCCGGAGAGGCTCTCCT			
18962	P	G	S	CGCGCCGAGGCGGGAAAAGGCAGCY			
18962	P	C	S	ATGACGTGGCAGACGGGGAAAAGGCAGCY			
18962	T	G	S	TCCTGCTGCCTTTTCCCGGGAGAGCCTCTCCGGGCCCGGG			
18962	T	C	S	TCCTGCTGCCTTTTCCCCGGAGAGCCTCTCCGGGCCCGGG			
18962	IS	[GC]		GTCTCTCACTCCACCCCCTCCCCACCGTCCCCACCGAGGGACGTCCTGCTGCCTTTTCCC[GC]GGAGAGCCTCTCCG GGCCCGGGGCTCTGTGCTGCAGGCGCTGGGCTGGCCGGGAGGGCAG	ctg_na	NA	
19004	I		S	GCTCCCTGGTCCTCTTAACGTCATTCTTCATGGTCC			
19004	P	C	S	ATGACGTGGCAGACGGCCTCAGCCCATY			
19004	P	A	S	CGCGCCGAGGTGCCTCAGCCCATGY			
19004	T	C	S	CCCGCATGGGCTGAGGCCGACCATGAAGAATGACGTTAAGAGGACCAGGGAGCGC			
19004	T	A	S	CCCGCATGGGCTGAGGCAGACCATGAAGAATGACGTTAAGAGGACCAGGGAGCGC			
19004	IS	[CA]		TGAGGAGGAAGTTCCCGCTCACATTTCAGATGAAGGCAAGTGGCCCGCATGGGCTGAGGC[CA]GACCATGAAGAATG ACGTTAAGAGGACCAGGGAGCGCCTAGAAGGAGCCCGGAGGGGCTG	ctg_na	NA	
19091	I		S	CGGGCCGGGCACATCCATCCGT			
19091	P	C	S	ATGACGTGGCAGACGGGCGCGAGGGY			
19091	P	T	S	CGCGCCGAGGAGGCGCGAGGGY			
19091	T	C	S	CCTCCCCTCGCGCCCCGGATGGATGTGCCCGGCCCGGT			
19091	T	T	S	CCTCCCCTCGCGCCTCGGATGGATGTGCCCGGCCCGGT			
19091	IS	[CT]		CACTCCAGTTGGCGGAGGAGGAGGAAGGAAGGGGCCGGGCCGGGTCCCCTCCCCTCGCGCC[CT]CGGATGGATGTG CCCGGCCCGGTGTCTCGGCGGGCGGCGGCGGCGGCGCCACTGTGCTC	ctg15972	16	
19582	I		A	GGTCAGCGTCACCATTTTGAGGGTGATGGACT			
19582	P	G	A	ATGACGTGGCAGACGTGTTTTCTGCACTCTAGCY			
19582	P	A	A	CGCGCCGAGGATGTTTTCTGCACTCTAGCY			
19582	T	G	A	CAGTGCTAGAGTGCAGAAAACACGTCCATCACCCTCAAAATGGTGACGCTGACCTC			
19582	T	A	A	CAGTGCTAGAGTGCAGAAAACATGTCCATCACCCTCAAAATGGTGACGCTGACCTC			
19582	IS	[GA]		GGACGCAGCAGAGTCTGGGTCTGACAGGAGGTCAGCGTCACCATTTTGAGGGTGATGGAC[GA]TGTTTTCTGCACTC TAGCACTGTGTGGAAGCGCTGGCTGACAGCAGCCTGGCTGTCCGAA	ctg14840	6	KIAA0980
19607	I		A	AAAGCAGCAGCGCAGCTCCCCAA			
19607	P	C	A	ATGACGTGGCAGACCCCGGCCTCACGY			
19607	P	T	A	CGCGCCGAGGTCCGGCCTCACGTY			
19607	T	C	A	CGGCACGTGAGGCCGGGTGGGGAGCTGCGCTGCTGCTTTGG			
19607	T	T	A	CGGCACGTGAGGCCGGATGGGGAGCTGCGCTGCTGCTTTGG			
19607	IS	[CT]		TGGGATCCTCGGGTGAGTGGGGCCGGGGCAGGGATCCCAAAGCAGCAGCGCAGCTCCCCA[CT]CCGGCCTCACGT GCCGTGCCCGTGTCTCCCCAGCATCTGGCACGAGTGGGAGATCGCCAA	ctg14840	6	
19658	I		A	AGCCTGAGGTAAGTTAACTGAATCACAGGCTGCAT			
19658	P	A	A	CGCGCCGAGGACAGAAATACTATTTAAAATGTCACAY			
19658	P	G	A	ATGACGTGGCAGACGCAGAAATACTATTTAAAATGTCACY			
19658	T	A	A	TCTATGTGACATTTTAAATAGTATTTCTGTTGCAGCCTGTGATTCAGTTAACTTACCTCAGGCTAA			
19658	T	G	A	TCTATGTGACATTTTAAATAGTATTTCTGCTGCAGCCTGTGATTCAGTTAACTTACCTCAGGCTAA			
19658	IS	[AG]		ATTCTTCCTTTTTTTTTTTGAGGCTTAGCCTGAGGTAAGTTAACTGAATCACAGGCTGCA[AG]CAGAAATACTATTTAAA ATGTCACATAGAAAATTCAATTTACACTTTGCTTTGCCTTTTA	ctg14840	6	
19762	I		S	CCCTCGGGGAGTGGGGGCCT			
19762	P	T	S	CGCGCCGAGGACCACTGTGGACACCY			
19762	P	C	S	ATGACGTGGCAGACGCCACTGTGGACACY			
19762	T	T	S	ATGGGGTGTCCACAGTGGTGGCCCCCACTCCCCGAGGGCT			
19762	T	C	S	ATGGGGTGTCCACAGTGGCGGCCCCCACTCCCCGAGGGCT			
19762	IS	[TC]		AGTCTTTGCCAATATCAGGGCTGACTGAGAAGCGTCACCCAGATGGGGTGTCCACAGTGG[TC]GGCCCCCACTCCCC GAGGGCTTGTGGTGTCCTGCCTCGCGTGGTCCTTTCCGAATAATGT	ctg3461	17	
20050	I		A	CATCTCCTTCCTGCACCAGAAGCACAATGCTTTT			
20050	P	C	A	CGCGCCGAGGCGCTTCTTGACCTCACY			
20050	P	G	A	ATGACGTGGCAGACGGCTTCTTGACCTCACY			
20050	T	C	A	GTCTGTGAGGTCAAGAAGCGAAAGCATTGTGCTTCTGGTGCAGGAAGGAGATGGC			
20050	T	G	A	GTCTGTGAGGTCAAGAAGCCAAAGCATTGTGCTTCTGGTGCAGGAAGGAGATGGC			
20050	IS	[CG]		GTTGCAGGAAACATTTGGTGGTTGCGCCATCTCCTTCCTGCACCAGAAGCACAATGCTTT[CG]GCTTCTTGACCTCAC AGACCACGGGCAGGTGCCCCACACCTTCCTCCGTTCCCACAGGTC	ctg14489	1	
20059	I		A	GTGTTAGCAGGGGCAGGGAGGCCT			

FIGURE 129D

20059 P	G	A	ATGACGTGGCAGACGGGGACGCCCCY				
20059 P	A	A	CGCGCCGAGGAGGGACGCCCCGY				
20059 T	G	A	GCTACGGGGCGTCCCCGGCCTCCCTGCCCCTGCTAACACGC				
20059 T	A	A	GCTACGGGGCGTCCCTGGCCTCCCTGCCCCTGCTAACACGC				
20059 IS	[GA]		TGAGTCCAGGCCGGAGGGTGCTGGGACCACCAGCAGCGTGTTAGCAGGGGCAGGGAGGCC[GA]GGGACGCCCCGT AGCAAGTGAGCAGGCAGATGGAGCAGGCTGCCGGGCTCCTGGTACGCA	ctg13297	17		
20212 I		A	CTCTAGAGGTTTGTTAACTCCTAGAAGATCATAGATTTCTGAAGTAGATTAATATTTTA				
20212 P	C	A	ATGACGTGGCAGACCTATTTTTCGTTATTATCATTTCATTGTY				
20212 P	T	A	CGCGCCGAGGTTATTTTTCGTTATTATCATTTCATTGTY				
20212 T	C	A	ATGGACAATGAAATGATAATAACGAAAAATAGAAAATATTAATCTACTTCAGAAATCTATGATCTTCTAGGAGTTAACAA ACCTCTAGAGCT				
20212 T	T	A	ATGGACAATGAAATGATAATAACGAAAAATAAAAAATATTAATCTACTTCAGAAATCTATGATCTTCTAGGAGTTAACAA ACCTCTAGAGCT				
20212 IS	[CT]		AGCTCTAGAGGTTTGTTAACTCCTAGAAGATCATAGATTTCTGAAGTAGATTAATATTTT[CT]TATTTTTCGTTATTATCA TTTCATTGTCCATTTCACTGGTTAATCCTATACCTTTGAAGA	ctg22fin4	22		
20361 I		A	CCCAAAGGTGAGTCTTCTTTGGATTGTGGACTCATCTC				
20361 P	G	A	ATGACGTGGCAGACGGAAGGAACTTTGAGGATTTY				
20361 P	T	A	CGCGCCGAGGTGAAGGAACTTTGAGGATTTAY				
20361 T	G	A	ATAGTAAATCCTCAAAGTTCCTTCCAGATGAGTCCACAATCCAAAGAAGACTCACCTTTGGGCT				
20361 T	T	A	ATAGTAAATCCTCAAAGTTCCTTCAAGATGAGTCCACAATCCAAAGAAGACTCACCTTTGGGCT				
20361 IS	[GT]		ATTAGAAAAACAAAAAGAAGAAGCCCAAAGGTGAGTCTTCTTTGGATTGTGGACTCATCT[GT]GAAGGAACTTTGAGGA TTTACTATTCTTTGCTTGGCTTCTCCAAGTAGTTACTGCACCAG	ctg22fin4	22		
20426 I		A	GCTCTACTTTCACGTGTTACCAAAGGACAGAGGACACA				
20426 P	C	A	ATGACGTGGCAGACCACCAAGGATTTAGAAAACTGY				
20426 P	T	A	CGCGCCGAGGTACCAAGGATTTAGAAAACTGTY				
20426 T	C	A	CTTAACAGTTTTCTAAATCCTTGGTGGTGTCCTCTGTCCTTTGGTAACACGTGAAAGTAGAGCAC				
20426 T	T	A	CTTAACAGTTTTCTAAATCCTTGGTAGTGTCCTCTGTCCTTTGGTAACACGTGAAAGTAGAGCAC				
20426 IS	[CT]		AAGGAACAAAAGTAGAAAAGTGTGCTCTACTTTCACGTGTTACCAAAGGACAGAGGACAC[CT]ACCAAGGATTTAGAAA ACTGTTAAGTGAGGATTTATTCTTCTTAATAGCCTTTCAAGCAA	ctg22fin4	22		
20723 I		A	GAACAGTGTCAGGAGGAGGTGACGGATGCT				
20723 P	G	A	ATGACGTGGCAGACGGCGCCCCCATCY				
20723 P	A	A	CGCGCCGAGGAGCGCCCCCATCY				
20723 T	G	A	ATGGGATGGGGGCGCCGCATCCGTCACCTCCTCCTGACACTGTTCAG				
20723 T	A	A	ATGGGATGGGGGCGCTGCATCCGTCACCTCCTCCTGACACTGTTCAG				
20723 IS	[GA]		GAGAGGAGGCTGGAGCAGCACTGGTGACACTGAACAGTGTCAGGAGGAGGTGACGGATGC[GA]GCGCCCCCATCCC ATAGGCAGAGCTGTCATGTGGGATGAGGGACAGTGTTGGGAGCCACC	ctg15907	6		
21129 I		S	ACGGGGACGGGGCACTTGGCC				
21129 P	A	S	CGCGCCGAGGTACTGCAGCTCGCCY				
21129 P	T	S	ATGACGTGGCAGACAACTGCAGCTCGCCY				
21129 T	A	S	CGGTGGCGAGCTGCAGTAGCCAAGTGCCCCGTCCCCGTTG				
21129 T	T	S	CGGTGGCGAGCTGCAGTTGCCAAGTGCCCCGTCCCCGTTG				
21129 IS	[AT]		CCCGGCTGATTTGCGCATCAGGTAGTCGCCGCTCTACTCTCAACGGTGGCGAGCTGCAGT[AT]GCCAAGTGCCCCGT CCCCGTTGCCATAACAGCAGTACACAACCCCTCCTTCCCCTCGCCC				
21523 I		A	GGGTGGATCACCTCAGGTTGGGAGTACAAGACA				
21523 P	C	A	ATGACGTGGCAGACCAGCCTGGCCAACAY				
21523 P	T	A	CGCGCCGAGGTAGCCTGGCCAACACY				
21523 T	C	A	TACTGTGTTGGCCAGGCTGGTCTTGTACTCCCAACCTGAGGTGATCCACCCAC				
21523 T	T	A	TACTGTGTTGGCCAGGCTAGTCTTGTACTCCCAACCTGAGGTGATCCACCCAC				
21523 IS	[CT]		TAATCCCAGCACTTTGGGAGGCCGAGGTGGGTGGATCACCTCAGGTTGGGAGTACAAGAC[CT]AGCCTGGCCAACAC AGTAAAACCCCATCTCTACTAAAAATACAAAAATTAGCCAGGCATG				MULTIPLE SHORT GENE NAMES
22103 I		S	ACAATCCGAGATTGATGGTTCTCTAACTTGAGCATCAGTTCACA				
22103 P	G	S	ATGACGTGGCAGACCTGGAAGGCTTGTGAGY				
22103 P	A	S	CGCGCCGAGGTTGGAAGGCTTGTGAGY				
22103 T	G	S	TGTCCTCACAAGCCTTCCAGGTGAACTGATGCTCAAGTTAGAGAACCATCAATCTCGGATTGTAA				
22103 T	A	S	TGTCCTCACAAGCCTTCCAAGTGAACTGATGCTCAAGTTAGAGAACCATCAATCTCGGATTGTAA				
22103 IS	[GA]		ACTGACAGAATCAGAAGCTCTGGGGGTAGGGCCCAGAAGTCTGTCCTCACAAGCCTTCCA[GA]GTGAACTGATGCTC AAGTTAGAGAACCATCAATCTCGGATTGTAAATCCCAGTTTCCTCA	ctg22fin4	22		
22215 I		A	CAGCCTGGGCAACAGAGCAAGACTGTCTT				
22215 P	C	A	CGCGCCGAGGCAAAAAACAAAAACCAAAACCAY				
22215 P	G	A	ATGACGTGGCAGACGAAAAAACAAAAACCAAAACCAY				
22215 T	C	A	TTTTTGGTTTTGGTTTTTGTTTTTTGAGACAGTCTTGCTCTGTTGCCCAGGCTGGA				
22215 T	G	A	TTTTTGGTTTTGGTTTTTGTTTTTTCAGACAGTCTTGCTCTGTTGCCCAGGCTGGA				
22215 IS	[CG]		TTGCAGTGAGCCGAGATTGCGCCACTGCACTCCAGCCTGGGCAACAGAGCAAGACTGTCT[CG]AAAAAACAAAAACC AAAACCAAAAATAAAGAGCCAGGGCTAAAGGTTCTCCCCATGGGCC				
22226 I		S	TCCAGGATGATCACCCATCACTGAAAAGAGGCAC				
22226 P	A	S	CGCGCCGAGGTAAGAACGTTCTGAGGCCY				
22226 P	C	S	ATGACGTGGCAGACGAAGAACGTTCTGAGGCY				
22226 T	A	S	TAGGGGCCTCAGAACGTTCTTATGCCTCTTTTCAGTGATGGGTGATCATCCTGGACA				
22226 T	C	S	TAGGGGCCTCAGAACGTTCTTCTGCCTCTTTTCAGTGATGGGTGATCATCCTGGACA				
22226 IS	[AC]		TTTGCCCACTTTGGGCAGAAATCTTCTCTGCTCAGAAAATAGGGGCCTCAGAACGTTCTT[AC]TGCCTCTTTTCAGTGA TGGGTGATCATCCTGGACAAGAATGGGCACAGTGTGTTGCAACC	ctg12414	1		
22473 I		A	CACAGAAGAATTCCAGAACAGCAGGGAAAACCATGACT				
22473 P	G	A	ATGACGTGGCAGACGAATATGGCAGTACACATTTCY				
22473 P	A	A	CGCGCCGAGGAAATATGGCAGTACACATTTCY				
22473 T	G	A	AGCTGAAATGTGTACTGCCATATTCGTCATGGTTTTCCCTGCTGTTCTGGAATTCTTCTGTGGG				
22473 T	A	A	AGCTGAAATGTGTACTGCCATATTTGTCATGGTTTTCCCTGCTGTTCTGGAATTCTTCTGTGGG				
22473 IS	[GA]		ATATAAAATAGTGTTCCTGCTCCCACAGAAGAATTCCAGAACAGCAGGGAAAACCATGAC[GA]AATATGGCAGTACACA TTTCAGCTTTCAGAGCTACAGCTGATTTCAACTTTTTTCCCCAT				
22497 I		A	CACGATTATTGGCTCCAAGAATAATCACTATGAGCTACAAAAACTAGCTT				
22497 P	G	A	ATGACGTGGCAGACGAAAGCCGGGCACY				
22497 P	A	A	CGCGCCGAGGAAAAGCCGGGCACY				
22497 T	G	A	CCCCGTGCCCGGCTTTCAGCTAGTTTTTGTAGCTCATAGTGATTATTCTTGGAGCCAATAATCGTGCA				
22497 T	A	A	CCCCGTGCCCGGCTTTTAGCTAGTTTTTGTAGCTCATAGTGATTATTCTTGGAGCCAATAATCGTGCA				
22497 IS	[GA]		GTGGATGCATGCACGATTATTGGCTCCAAGAATAATCACTATGAGCTACAAAAACTAGCT[GA]AAAGCCGGGCACGGG GGCTTGTGCCTGTAATTCCAGCACTGTGGGAGGCTAAGGCAGGAG				
22503 I		A	GCATCCTTCCTAGGATGGCTGAACTTCACTAGATCGTAA				
22503 P	T	A	CGCGCCGAGGTTAAAGCTAAGATCAGTTCCCY				
22503 P	C	A	ATGACGTGGCAGACCTAAAGCTAAGATCAGTTCCCY				
22503 T	T	A	TTATGGGAACTGATCTTAGCTTTAATACGATCTAGTGAAGTTCAGCCATCCTAGGAAGGATGCTG				
22503 T	C	A	TTATGGGAACTGATCTTAGCTTTAGTACGATCTAGTGAAGTTCAGCCATCCTAGGAAGGATGCTG				
22503 IS	[TC]		CACCTGTCCCTCCCTCCCAGCAGCATCCTTCCTAGGATGGCTGAACTTCACTAGATCGTA[TC]TAAAGCTAAGATCAG TTCCCATAACAAGATGTTCAACTCTCCAGGGCATTTACACCTATC	ctg16861	13		
22641 I		S	GAATTCAGTTGGCATTTTAAAAATCCCACTTATTATTTCCCCTC				
22641 P	A	S	CGCGCCGAGGTTTTTAAAAAAGAAACTGCAAAATAACY				
22641 P	C	S	ATGACGTGGCAGACGTTTTAAAAAAGAAACTGCAAAATAACY				
22641 T	A	S	CTTGGTTATTTTGCAGTTTCTTTTTTAAAAAAGGGGAAATAATAAGTGGGATTTTTAAAATGCCAACTGAATTCCA				

FIGURE 129D

22641 T	C	S	CTTGGTTATTTTGCAGTTTCTTTTTTAAAACAGGGGAAATAATAAGTGGGATTTTTAAAATGCCAACTGAATTCCA				
22641 IS	[AC]		GGTCAGTTGAGGTCTGCTGCCTACACATAGCTTGGTTATTTTGCAGTTTCTTTTTTAAAA[AC]AGGGGAAATAATAAGT GGGATTTTTAAAATGCCAACTGAATTCCATTTAAGAGCTTGAAA	ctg16861	13		
22767 I		S	CCTTCCAAATGGCTGTATTTATAAAGGTTTTTGGAGCTGCACA				
22767 P	A	S	CGCGCCGAGGTGAAGCATCTTATTTTATAGTATATCAAY				
22767 P	G	S	ATGACGTGGCAGACCGAAGCATCTTATTTTATAGTATATCAY				
22767 T	A	S	AAGGTTGATATACTATAAAATAAGATGCTTCAGTGCAGCTCCAAAAACCTTTATAAATACAGCCATTTGGAAGGAC				
22767 T	G	S	AAGGTTGATATACTATAAAATAAGATGCTTCGGTGCAGCTCCAAAAACCTTTATAAATACAGCCATTTGGAAGGAC				
22767 IS	[AG]		GCTACCTTGGCAGGTCAATTTAAAAACAAAAGGTTGATATACTATAAAATAAGATGCTTC[AG]GTGCAGCTCCAAAAAC CTTTATAAATACAGCCATTTGGAAGGACGATCCTGGATCAGAAA				RBM3
22894 I		A	TGAGAAACGGGATGCCCTCTTCATACAGTCCCT				
22894 P	A	A	CGCGCCGAGGAGGAGAACTGCTGCAAY				
22894 P	G	A	ATGACGTGGCAGACGGGAGAACTGCTGCAY				
22894 T	A	A	CAACTTGCAGCAGTTCTCCTGGGACTGTATGAAGAGGGCATCCCGTTTCTCAGA				
22894 T	G	A	CAACTTGCAGCAGTTCTCCCGGGACTGTATGAAGAGGGCATCCCGTTTCTCAGA				
22894 IS	[AG]		GAAAGGTAACTGGCCTGCACAAAGACTCTGAGAAACGGGATGCCCTCTTCATACAGTCCC[AG]GGAGAACTGCTGCA AGTTGACCCATCTTCCCACTCCACCTCCACGCTCAGTCTCCTTTCA	ctg17253	1		
23039 I		S	CAGCTGGCCAGCCTGTTCTCAGCCT				
23039 P	C	S	ATGACGTGGCAGACGCCTTCTCGCCCAY				
23039 P	G	S	CGCGCCGAGGCCCTTCTCGCCCACY				
23039 T	C	S	CGCTGTGGGCGAGAAGGCGGCTGAGAACAGGCTGGCCAGCTGGT				
23039 T	G	S	CGCTGTGGGCGAGAAGGGGGCTGAGAACAGGCTGGCCAGCTGGT				
23039 IS	[CG]		GGGCTGGGGCTCGAGTGCCGTGGCCTCCACGTAAACGGGAACACGCTGTGGGCGAGAAGG[CG]GGCTGAGAACAG GCTGGCCAGCTGGTGTCCTGCCCACCTCACTGCAGGGCCCCAGCAGCC	ctg15071	9		
23959 I		A	GCAACCATATTAAATATTGCTGAGCTCAGGCCAACT				
23959 P	A	A	CGCGCCGAGGAACTTCTTGAAAAGAGAGCAY				
23959 P	G	A	ATGACGTGGCAGACGACTTCTTGAAAAGAGAGCAY				
23959 T	A	A	TCGTTGCTCTCTTTTCAAGAAGTTGTTGGCCTGAGCTCAGCAATATTTAATATGGTTGCCA				
23959 T	G	A	TCGTTGCTCTCTTTTCAAGAAGTCGTTGGCCTGAGCTCAGCAATATTTAATATGGTTGCCA				
23959 IS	[AG]		AACTGCTGAAAACTGATAAATTATGGCAACCATATTAAATATTGCTGAGCTCAGGCCAAC[AG]ACTTCTTGAAAAGAGA GCAACGAGTCTATTTGTAGTGACTGGAATCTTTCAATATAGCTA	ctg15071	9		
24008 I		S	CATCAGGGACAGTAATCCCAGACTACAGGGCTT				
24008 P	T	S	CGCGCCGAGGATGGAGGGATTTGGGCY				
24008 P	C	S	ATGACGTGGCAGACGTGGAGGGATTTGGGY				
24008 T	T	S	TCCCGCCCAAATCCCTCCATAGCCCTGTAGTCTGGGATTACTGTCCCTGATGAG				
24008 T	C	S	TCCCGCCCAAATCCCTCCACAGCCCTGTAGTCTGGGATTACTGTCCCTGATGAG				
24008 IS	[TC]		GTTCTCTGGTGTGTGTGCTGAACTCTCCACCCGCCCCAAGGTCCCGCCCAAATCCCTCCA[TC]AGCCCTGTAGTCTG GGATTACTGTCCCTGATGAGAAAAGGGGATAGTGAGGCCCAGTTGT				
24157 I		A	TCAGGTTGCAGCAGACGTGAGCAGCAT				
24157 P	A	A	CGCGCCGAGGATTGAGCACCCATCCGY				
24157 P	G	A	ATGACGTGGCAGACGTTGAGCACCCATCCY				
24157 T	A	A	GGGACGGATGGGTGCTCAATTGCTGCTCACGTCTGCTGCAACCTGAAG				
24157 T	G	A	GGGACGGATGGGTGCTCAACTGCTGCTCACGTCTGCTGCAACCTGAAG				
24157 IS	[AG]		GAAGGGAGCAGATCTGCTGGCTGAGATGCAAGCTTCAGGTTGCAGCAGACGTGAGCAGCA[AG]TTGAGCACCCATCC GTCCCTTCCCCTCCCATCCCTGGATTCTTTCTGCACTACCAAAAAC				GAS7
24621 I		A	GGTATACACAAACCTCCTTTGTGATCATTTTTTCCCTGCTAGCT				
24621 P	G	A	ATGACGTGGCAGACGTATTAACACAGTATTTTTTTGATTTTTCY				
24621 P	A	A	CGCGCCGAGGATATTAACACAGTATTTTTTTGATTTTTCY				
24621 T	G	A	AATGGAAAAATCAAAAAAATACTGTGTTAATACGCTAGCAGGGAAAAAATGATCACAAAGGAGGTTTGTGTATACCTT				
24621 T	A	A	AATGGAAAAATCAAAAAAATACTGTGTTAATATGCTAGCAGGGAAAAAATGATCACAAAGGAGGTTTGTGTATACCTT				
24621 IS	[GA]		CATTAAAAGCTAAAAAAGGTATACACAAACCTCCTTTGTGATCATTTTTTCCCTGCTAGC[GA]TATTAACACAGTATTTT TTTGATTTTTCCATTTTAATTACTTGCAAGTGAAAAGTGATTT	ctg14326	3		
24660 I		S	TGGGAATCCAATGTGGCTTGGGAACCCAT				
24660 P	T	S	CGCGCCGAGGAGAATTTTTCCACCACGTTY				
24660 P	C	S	ATGACGTGGCAGACGGAATTTTTCCACCACGTY				
24660 T	T	S	AAGAAACGTGGTGGAAAAATTCTTGGGTTCCCAAGCCACATTGGATTCCCAGC				
24660 T	C	S	AAGAAACGTGGTGGAAAAATTCCTGGGTTCCCAAGCCACATTGGATTCCCAGC				
24660 IS	[TC]		TTGTTTACAAAACCTTCTTCAAATGCTGCAACAGAGAAGAAGAAACGTGGTGGAAAAATTC[TC]TGGGTTCCCAAGCCAC ATTGGATTCCCAGCCCCAGCGAATGCAGGCCCAGCACCATGGTT	ctg14326	3		
24787 I		S	CTGTGACATAACTGGTTCTAACACATTAATTTCTATTTTACTCTTGTGAAA				
24787 P	G	S	ATGACGTGGCAGACCTTCACTAGAATCTGATGACTTY				
24787 P	A	S	CGCGCCGAGGTTTCACTAGAATCTGATGACTTY				
24787 T	G	S	TTCCAAGTCATCAGATTCTAGTGAAGTTCACAAGAGTAAAATAGAAATTAATGTGTTAGAACCAGTTATGTCACAGCT				
24787 T	A	S	TTCCAAGTCATCAGATTCTAGTGAAATTCACAAGAGTAAAATAGAAATTAATGTGTTAGAACCAGTTATGTCACAGCT				
24787 IS	[GA]		AATGATACAGTAAAACTTAAAATTAATTTTCATGGTTCCAAGTCATCAGATTCTAGTGAA[GA]TTCACAAGAGTAAAATA GAAATTAATGTGTTAGAACCAGTTATGTCACAGCTATCAAATT	ctg16306	4		NPAT
24814 I		S	TGTCCCCAAATGAATAAAAAAAAGTTACTGTCAGGCCATAAAGGGT				
24814 P	G	S	ATGACGTGGCAGACCAATTTTAAGTGATTTAGACATTTGAAY				
24814 P	T	S	CGCGCCGAGGAAATTTTAAGTGATTTAGACATTTGAATY				
24814 T	G	S	TTACATTCAAATGTCTAAATCACTTAAAATTGCCCTTTATGGCCTGACAGTAACTTTTTTTTATTCATTTGGGGACAAC				
24814 T	T	S	TTACATTCAAATGTCTAAATCACTTAAAATTTCCCTTTATGGCCTGACAGTAACTTTTTTTTATTCATTTGGGGACAAC				
24814 IS	[GT]		TAGTTGATTTTATAGGCTAGTGGGAGAATTTACATTCAAATGTCTAAATCACTTAAAATT[GT]CCCTTTATGGCCTGACA GTAACTTTTTTTTATTCATTTGGGGACAACTATGTCCGTGAGC	ctg13980	1		
24951 I		A	TCCTGGGGCATTTTTAGAGCACTTTTAAATCTTTAATTAATCCACATCTTTGTT				
24951 P	A	A	CGCGCCGAGGAGTGGGTCAATGATATTATGGY				
24951 P	G	A	ATGACGTGGCAGACGGTGGGTCAATGATATTATGGY				
24951 T	A	A	TCATCCATAATATCATTGACCCACTACAAAGATGTGGATTAATTAAAGATTTAAAAGTGCTCTAAAAATGCCCCAGGAGT				
24951 T	G	A	TCATCCATAATATCATTGACCCACCACAAAGATGTGGATTAATTAAAGATTTAAAAGTGCTCTAAAAATGCCCCAGGAG T				
24951 IS	[AG]		TAAGCACTCCTGGGGCATTTTTAGAGCACTTTTAAATCTTTAATTAATCCACATCTTTGT[AG]GTGGGTCAATGATATTA TGGATGAGAAACACAGAACAGAACGATTATGTGATTAGCCAAT	ctg13980	1		
25207 I		A	GGAGATGCCTCAAGGTAAAGAAGAGCCCTGTCAGT				
25207 P	G	A	ATGACGTGGCAGACGCTTTATACGTCCAGATTTTTTY				
25207 P	C	A	CGCGCCGAGGCCTTTATACGTCCAGATTTTTTGY				
25207 T	G	A	GGATCAAAAAATCTGGACGTATAAAGCCTGACAGGGCTCTTCTTTACCTTGAGGCATCTCCAG				
25207 T	C	A	GGATCAAAAAATCTGGACGTATAAAGGCTGACAGGGCTCTTCTTTACCTTGAGGCATCTCCAG				
25207 IS	[GC]		GACCTTACAAGGACACAGAGGAGGCTGGAGATGCCTCAAGGTAAAGAAGAGCCCTGTCAG[GC]CTTTATACGTCCAG ATTTTTTGATCCAACAGAAAATGTTGGCTAGAACCACTCTGCTGAG	ctg15972	16		
25503 I		A	CCATGAAATGATGCAGTAAGTGTTGGAGATATCTTCCAGAAGTCTA				

FIGURE 129D

25503 P	T	A	CGCGCCGAGGTAGGTCATTTGTTTTCATGTTTAAY				
25503 P	C	A	ATGACGTGGCAGACCAGGTCATTTGTTTTCATGTTY				
25503 T	T	A	CAATTTAAACATGAAAACAAATGACCTAAGACTTCTGGAAGATATCTCCAACACTTACTGCATCATTTCATGGTA				
25503 T	C	A	CAATTTAAACATGAAAACAAATGACCTGAGACTTCTGGAAGATATCTCCAACACTTACTGCATCATTTCATGGTA				
25503 IS	[TC]		GTTTAAAATAATATACCATGAAATGATGCAGTAAGTGTTGGAGATATCTTCCAGAAGTC[T/C]AGGTCATTTGTTTTCAT GTTTAAATTGTTTCCGCAAAGGCATTCTCTTCAACATAAGGAG	ctg15907	6		
25523 I		A	CCCCATTCTAGAGAACGCCAGACAGAGGCAT				
25523 P	G	A	ATGACGTGGCAGACGGAGGGCATTGTGAGY				
25523 P	C	A	CGCGCCGAGGCGAGGGCATTGTGAGY				
25523 T	G	A	ATTGCTCACAATGCCCTCCTGCCTCTGTCTGGCGTTCTCTAGAATGGGGTG				
25523 T	C	A	ATTGCTCACAATGCCCTCGTGCCTCTGTCTGGCGTTCTCTAGAATGGGGTG				
25523 IS	[GC]		GGTTTTTGTGTGGCTCATTGTTCCTGCTCACCCCATTCTAGAGAACGCCAGACAGAGGCA[G/C]GAGGGCATTGTGAG CAATTCCATCATGTACTTCACGGAGGAACCCCCCCGAGCTGCCGGCC	ctg22fin6	22		
25535 I		S	CAGAAAGGCTGTGAAGGGAATGGAACAGAGTGTGA				
25535 P	G	S	ATGACGTGGCAGACCCAGAACCCTCAGGGY				
25535 P	A	S	CGCGCCGAGGTCAGAACCCTCAGGGY				
25535 T	G	S	AACACCCTGAGGGTTCTGGCACACTCTGTTCCATTCCCTTCACAGCCTTTCTGCC				
25535 T	A	S	AACACCCTGAGGGTTCTGACACACTCTGTTCCATTCCCTTCACAGCCTTTCTGCC				
25535 IS	[GA]		TTCAAGATAGTATACCTGGTGGCCCGTAAACAAGAGCTGAGAAACACCCTGAGGGTTCT[G/A]CACACTCTGTTCCAT TCCCTTCACAGCCTTTCTGCCTGAGTGCAATTCTTTCCACTTCTT	ctg15907	6		
25587 I		S	TGGCAGCAGAGTGGTGAGGACCGTGC				
25587 P	C	S	ATGACGTGGCAGACGACACCTGGCTAGGGY				
25587 P	A	S	CGCGCCGAGGTACACCTGGCTAGGGAY				
25587 T	C	S	ACATTCCCTAGCCAGGTGTCCACGGTCCTCACCACTCTGCTGCCATC				
25587 T	A	S	ACATTCCCTAGCCAGGTGTACACGGTCCTCACCACTCTGCTGCCATC				
25587 IS	[CA]		TCATTCCCTTACTCAGAAACTCTCCTTTCCTACCTTATCGCACATTCCCTAGCCAGGTGT[C/A]CACGGTCCTCACCACT CTGCTGCCATCTTATCTTCCCAGCATTGCTCTTTCTCCCCTCCC				
25736 I		A	GCAAAGCTGTGCCTATTTCATGCATACAACTTGATGAGTTC				
25736 P	T	A	CGCGCCGAGGTGGAGATATGTTTACACACCY				
25736 P	G	A	ATGACGTGGCAGACGGGAGATATGTTTACACACCY				
25736 T	T	A	GAGGGGTGTGTAAACATATCTCCAAACTCATCAAGTTGTATGCATGAAATAGGCACAGCTTTGCAT				
25736 T	G	A	GAGGGGTGTGTAAACATATCTCCCAACTCATCAAGTTGTATGCATGAAATAGGCACAGCTTTGCAT				
25736 IS	[TG]		CTAAGGTGTAATTGGCATATGCAAAGCTGTGCCTATTTCATGCATACAACTTGATGAGT[T/G]GGAGATATGTTTACAC ACCCCTCACTGCTATCATTAAAGGTGCTCATCTCTTCATTCTGC	ctg16920	19		
25836 I		S	GGAGGAGAGGCCTGTGGCCCAAAGAT				
25836 P	T	S	CGCGCCGAGGACCTGGTAGCGCCY				
25836 P	C	S	ATGACGTGGCAGACGCCTGGTAGCGCCY				
25836 T	T	S	AGGAGGCGCTACCAGGTTCTTTGGGCCACAGGCCTCTCCTCCAC				
25836 T	C	S	AGGAGGCGCTACCAGGCTCTTTGGGCCACAGGCCTCTCCTCCAC				
25836 IS	[TC]		CAGTCCATGGCGTTACCAAGGCTGCGCCACCCACGTGCTGCCCCAGGAGGCGCTACCAGG[T/C]TCTTTGGGCCACA GGCCTCTCCTCCACTGCATGTGGCGGCAGGGCAGGGAGGTCGCAGGG				PIK4CA
25890 I		S	GGAAGTAGGTTGTTCCATGACAATTAAACTTAAGCAAGAAGCAATAGATCAAA				
25890 P	G	S	ATGACGTGGCAGACCGCAGAGAGCTGTCTY				
25890 P	A	S	CGCGCCGAGGTGCAGAGAGCTGTCTCY				
25890 T	G	S	TCCAGAGACAGCTCTCTGCGTTGATCTATTGCTTCTTGCTTAAGTTTAATTGTCATGGAACAACCTACTTCCAG				
25890 T	A	S	TCCAGAGACAGCTCTCTGCATTGATCTATTGCTTCTTGCTTAAGTTTAATTGTCATGGAACAACCTACTTCCAG				
25890 IS	[GA]		TTCTCATTGACACATCACTGCTTTAACTTATATTAATACCTTCCAGAGACAGCTCTCTGC[G/A]TTGATCTATTGCTTCTT GCTTAAGTTTAATTGTCATGGAACAACCTACTTCCAGGATCTC	ctg15907	6		
25939 I		S	TGCACTCCCCTTTAAATATTGGTCTTCTTGCTTATAATCCTGAATAGGAA				
25939 P	G	S	ATGACGTGGCAGACCATTTCATGTTCTGTTTTCCTATTY				
25939 P	A	S	CGCGCCGAGGTATTTCATGTTCTGTTTTCCTATTTY				
25939 T	G	S	ATGCAAATAGGAAAACAGAACATGAAATGTCCTATTCAGGATTATAAGCAAGAAGACCAATATTTAAAGGGGAGTGCAG G				
25939 T	A	S	ATGCAAATAGGAAAACAGAACATGAAATATCCTATTCAGGATTATAAGCAAGAAGACCAATATTTAAAGGGGAGTGCAG G				
25939 IS	[GA]		GTCCAAATGTACTTTTACAATATCTTCTCAAAATGCAAATAGGAAAACAGAACATGAAAT[G/A]TCCTATTCAGGATTATA AGCAAGAAGACCAATATTTAAAGGGGAGTGCAGGAAAGAGACC	ctg15330	9		
26005 I		A	CTGTCATCCTAGGCCTGAATTTCTGCAAAAGCCACC				
26005 P	T	A	CGCGCCGAGGTTTGTCCCCTTCCTACCY				
26005 P	G	A	ATGACGTGGCAGACGTTGTCCCCTTCCTACCY				
26005 T	T	A	TGAGGGTAGGAAGGGGACAAAGTGGCTTTTGCAGAAATTCAGGCCTAGGATGACAGAG				
26005 T	G	A	TGAGGGTAGGAAGGGGACAACGTGGCTTTTGCAGAAATTCAGGCCTAGGATGACAGAG				
26005 IS	[TG]		GTGATAGTGTGGGAGGAGACAGCCTCTGTCATCCTAGGCCTGAATTTCTGCAAAAGCCAC[T/G]TTGTCCCCTTCCTAC CCTCAGTCCTTTCCCCTTCCATTAGTTTACCAACTATTTATTGAA	ctg15330	9		
26045 I		S	TGGGTGTGTCTTCCGGGGCAGTGAGA				
26045 P	A	S	CGCGCCGAGGTGTCAGCCGGGAACY				
26045 P	G	S	ATGACGTGGCAGACCGTCAGCCGGGAAY				
26045 T	A	S	TTCCGTTCCCGGCTGACACTCACTGCCCCGGAAGACACACCCACT				
26045 T	G	S	TTCCGTTCCCGGCTGACGCTCACTGCCCCGGAAGACACACCCACT				
26045 IS	[AG]		CTGTGCTCTTCCTGTTACACCCCGATCCCTGGGTCTGTCTGGCTTCCGTTCCCGGCTGAC[A/G]CTCACTGCCCCGGA AGACACACCCACTAGATCAGCGTTTCCACACTAGAATACTTTATTC	ctg15330	9		
26082 I		S	CGTAGAAATCTTGTTGTTGCTTATATCCCTGGAAGAGAT				
26082 P	C	S	ATGACGTGGCAGACGGGGGGATTCGGCY				
26082 P	G	S	CGCGCCGAGGCGGGGGATTCGGCY				
26082 T	C	S	CTTTGCCGAATCCCCCCTCTCTTCCAGGGATATAAGCAACAACAAGATTTCTACGTT				
26082 T	G	S	CTTTGCCGAATCCCCCGTCTCTTCCAGGGATATAAGCAACAACAAGATTTCTACGTT				
26082 IS	[CG]		GGCGGCACCGCCTCTTGCTGCTCAGCTGTGGGGGCTTCCGTCAGCTTTGCCGAATCCCCC[C/G]TCTCTTCCAGGGAT ATAAGCAACAACAAGATTTCTACGTTAGAAGAAGGAATATTTGCTA	ctg12559	6		
26151 I		A	TGATCCATGACCCTGTCAGGTTTCATAGGCCCT				
26151 P	A	A	CGCGCCGAGGAGACTGTGAGGTGAATCCY				
26151 P	G	A	ATGACGTGGCAGACGGACTGTGAGGTGAATCY				
26151 T	A	A	GTCTGGATTCACCTCACAGTCTGGGCCTATGAAACCTGACAGGGTCATGGATCAGC				
26151 T	G	A	GTCTGGATTCACCTCACAGTCCGGGCCTATGAAACCTGACAGGGTCATGGATCAGC				
26151 IS	[AG]		TGTCTCCGTTGGAGCCTCCTCCCACAGCTGATCCATGACCCTGTCAGGTTTCATAGGCCC[A/G]GACTGTGAGGTGAA TCCAGACAACTGTGTCAGCCACCAGTGTCAGAATGGGGGCACTTGC	ctg15907	6		
26230 I		A	CGTGAGAATGACCCAAAAGCCCCAGGACTAAAAAGAAGT				
26230 P	A	A	CGCGCCGAGGACCGCCCGGAGY				
26230 P	C	A	ATGACGTGGCAGACCCCGCCCGGAGY				
26230 T	A	A	CGTGCTCCGGGCGGTCTTCTTTTTAGTCCTGGGGCTTTTGGGTCATTCTCACGGA				
26230 T	C	A	CGTGCTCCGGGCGGGCTTCTTTTTAGTCCTGGGGCTTTTGGGTCATTCTCACGGA				
26230 IS	[AC]		CTGATGGTGTTGGGGAATCCTCCGTGAGAATGACCCAAAAGCCCCAGGACTAAAAAGAAG[A/C]CCGCCCGGAGCACG CTTTGCCCCATTTTCTTCTGCCTGGCCATGCTACGCCTAAAACGAA				GRIA3
26262 I		A	CCCCCACGGAATGAGGCAGGGGAA				
26262 P	T	A	CGCGCCGAGGTGGGCCAGGCACY				
26262 P	C	A	ATGACGTGGCAGACCGGGCCAGGCACY				

FIGURE 129D

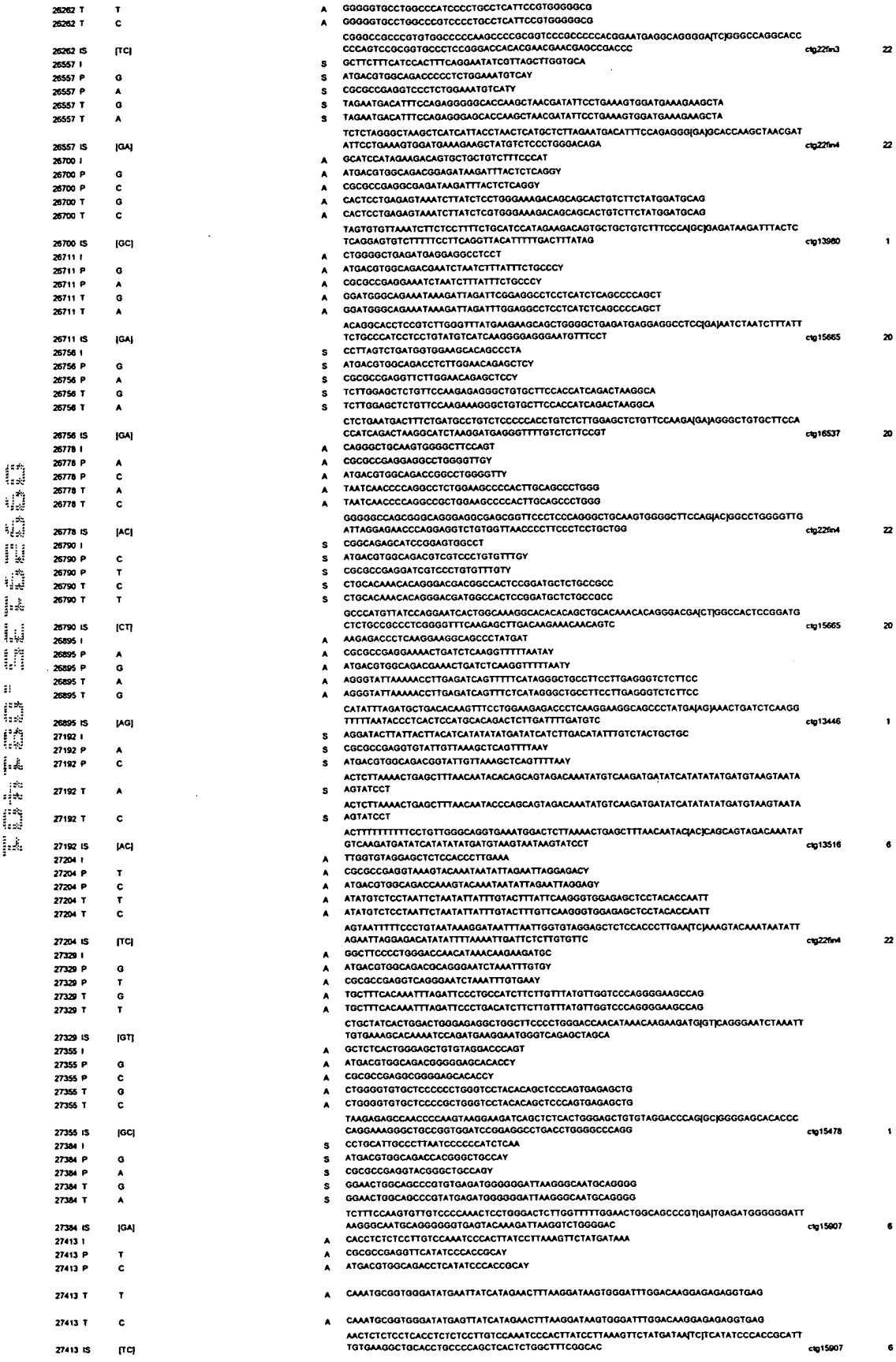

26262 T T A GGGGGTGCCTGGCCCATCCCCTGCCTCATTCCGTGGGGGCG
26262 T C A GGGGGTGCCTGGCCCGTCCCCTGCCTCATTCCGTGGGGGCG
CGGGCCGCCCGTGTGGCCCCCAAGCCCCGCGGTCCCGCCCCCACGGAATGAGGCAGGGGA[TC]GGGCCAGGCACC
26262 IS [TC] CCCAGTCCGCGGTGCCCTCCGGGACCACACGAACGAACGAGCCGACCC ctg22fin3 22
26557 I S GCTTCTTTCATCCACTTTCAGGAATATCGTTAGCTTGGTGCA
26557 P G S ATGACGTGGCAGACCCCCTCTGGAAATGTCAY
26557 P A S CGCGCCGAGGTCCCTCTGGAAATGTCATY
26557 T G S TAGAATGACATTTCCAGAGGGGGCACCAAGCTAACGATATTCCTGAAAGTGGATGAAAGAAGCTA
26557 T A S TAGAATGACATTTCCAGAGGGAGCACCAAGCTAACGATATTCCTGAAAGTGGATGAAAGAAGCTA
TCTCTAGGGCTAAGCTCATCATTACCTAACTCATGCTCTTAGAATGACATTTCCAGAGGG[GA]GCACCAAGCTAACGAT
26557 IS [GA] ATTCCTGAAAGTGGATGAAAGAAGCTATGTCTCCCTGGGACAGA ctg22fin4 22
26700 I A GCATCCATAGAAGACAGTGCTGCTGTCTTTCCCAT
26700 P G A ATGACGTGGCAGACGGAGATAAGATTTACTCTCAGGY
26700 P C A CGCGCCGAGGCGAGATAAGATTTACTCTCAGGY
26700 T G A CACTCCTGAGAGTAAATCTTATCTCCTGGGAAAGACAGCAGCACTGTCTTCTATGGATGCAG
26700 T C A CACTCCTGAGAGTAAATCTTATCTCGTGGGAAAGACAGCAGCACTGTCTTCTATGGATGCAG
TAGTGTGTTAAATCTTCTCCTTTTCTGCATCCATAGAAGACAGTGCTGCTGTCTTTCCCA[GC]GAGATAAGATTTACTC
26700 IS [GC] TCAGGAGTGTCTTTTTCCTTCAGGTTACATTTTTGACTTTATAG ctg13980 1
26711 I A CTGGGGCTGAGATGAGGAGGCCTCCT
26711 P G A ATGACGTGGCAGACGAATCTAATCTTTATTTCTGCCCY
26711 P A A CGCGCCGAGGAAATCTAATCTTTATTTCTGCCCY
26711 T G A GGATGGGCAGAAATAAAGATTAGATTCGGAGGCCTCCTCATCTCAGCCCCAGCT
26711 T A A GGATGGGCAGAAATAAAGATTAGATTTGGAGGCCTCCTCATCTCAGCCCCAGCT
ACAGGCACCTCCGTCTTGGGTTTATGAAGAAGCAGCTGGGGCTGAGATGAGGAGGCCTC[GA]AATCTAATCTTTATT
26711 IS [GA] TCTGCCCATCCTCCTGTATGTCATCAAGGGAAGGGAATGTTTCCT ctg15665 20
26756 I S CCTTAGTCTGATGGTGGAAGCACAGCCCTA
26756 P G S ATGACGTGGCAGACCTCTTGGAACAGAGCTCY
26756 P A S CGCGCCGAGGTTCTTGGAACAGAGCTCCY
26756 T G S TCTTGGAGCTCTGTTCCAAGAGAGGGCTGTGCTTCCACCATCAGACTAAGGCA
26756 T A S TCTTGGAGCTCTGTTCCAAGAAAGGGCTGTGCTTCCACCATCAGACTAAGGCA
CTCTGAATGACTTTCTGATGCCTGTCTCCCCCACCTGTCTCTTGGAGCTCTGTTCCAAGA[GA]AGGGCTGTGCTTCCA
26756 IS [GA] CCATCAGACTAAGGCATCTAAGGATGAGGGTTTTGTCTCTTCCGT ctg16537 20
26778 I A CAGGGCTGCAAGTGGGGCTTCCAGT
26778 P A A CGCGCCGAGGAGGCCTGGGGTTGY
26778 P C A ATGACGTGGCAGACCGGCCTGGGGTTY
26778 T A A TAATCAACCCCAGGCCTCTGGAAGCCCCACTTGCAGCCCTGGG
26778 T C A TAATCAACCCCAGGCCGCTGGAAGCCCCACTTGCAGCCCTGGG
GGGGGCCAGCGGGCAGGGAGGCGAGCGGTTCCCTCCCAGGGCTGCAAGTGGGGCTTCCAG[AC]GGCCTGGGGTTG
26778 IS [AC] ATTAGGAGAACCCAGGAGGTCTGTGGTTAACCCCTTCCCTCCTGCTGG ctg22fin4 22
26790 I S CGGCAGAGCATCCGGAGTGGCCT
26790 P C S ATGACGTGGCAGACGTCGTCCCTGTGTTTGY
26790 P T S CGCGCCGAGGATCGTCCCTGTGTTTGTY
26790 T C S CTGCACAAACACAGGGACGACGGCCACTCCGGATGCTCTGCCGCC
26790 T T S CTGCACAAACACAGGGACGATGGCCACTCCGGATGCTCTGCCGCC
GCCCATGTTATCCAGGAATCACTGGCAAAGGCACACACAGCTGCACAAACACAGGGACGA[CT]GGCCACTCCGGATG
26790 IS [CT] CTCTGCCGCCCTCGGGGTTTCAAGAGCTTGACAAGAAACAACAGTC ctg15665 20
26895 I A AAGAGACCCTCAAGGAAGGCAGCCCTATGAT
26895 P A A CGCGCCGAGGAAAACTGATCTCAAGGTTTTTAATAY
26895 P G A ATGACGTGGCAGACGAAACTGATCTCAAGGTTTTTAATY
26895 T A A AGGGTATTAAAAACCTTGAGATCAGTTTTTCATAGGGCTGCCTTCCTTGAGGGTCTCTTCC
26895 T G A AGGGTATTAAAAACCTTGAGATCAGTTTCTCATAGGGCTGCCTTCCTTGAGGGTCTCTTCC
CATATTTAGATGCTGACACAAGTTTCCTGGAAGAGACCCTCAAGGAAGGCAGCCCTATGA[AG]AAACTGATCTCAAGG
26895 IS [AG] TTTTTAATACCCTCACTCCATGCACAGACTCTTGATTTTGATGTC ctg13446 1
27192 I S AGGATACTTATTACTTACATCATATATATGATATCATCTTGACATATTTGTCTACTGCTGC
27192 P A S CGCGCCGAGGTGTATTGTTAAAGCTCAGTTTTAAY
27192 P C S ATGACGTGGCAGACGGTATTGTTAAAGCTCAGTTTTAAY
ACTCTTAAAACTGAGCTTTAACAATACACAGCAGTAGACAAATATGTCAAGATGATATCATATATATGATGTAAGTAATA
27192 T A S AGTATCCT
ACTCTTAAAACTGAGCTTTAACAATACCCAGCAGTAGACAAATATGTCAAGATGATATCATATATATGATGTAAGTAATA
27192 T C S AGTATCCT
ACTTTTTTTTTCCTGTTGGGCAGGTGAAATGGACTCTTAAAACTGAGCTTTAACAATAC[AC]CAGCAGTAGACAAATAT
27192 IS [AC] GTCAAGATGATATCATATATATGATGTAAGTAATAAGTATCCT ctg13516 6
27204 I A TTGGTGTAGGAGCTCTCCACCCTTGAAA
27204 P T A CGCGCCGAGGTAAAGTACAAATAATATTAGAATTAGGAGACY
27204 P C A ATGACGTGGCAGACCAAAGTACAAATAATATTAGAATTAGGAGY
27204 T T A ATATGTCTCCTAATTCTAATATTATTTGTACTTTATTCAAGGGTGGAGAGCTCCTACACCAATT
27204 T C A ATATGTCTCCTAATTCTAATATTATTTGTACTTTGTTCAAGGGTGGAGAGCTCCTACACCAATT
AGTAATTTTTCCCTGTAATAAAGGATAATTTAATTGGTGTAGGAGCTCTCCACCCTTGAA[TC]AAAGTACAAATAATATT
27204 IS [TC] AGAATTAGGAGACATATATTTTAAAATTGATTCTCTTGTGTTC ctg22fin4 22
27329 I A GGCTTCCCCTGGGACCAACATAAACAAGAAGATGC
27329 P G A ATGACGTGGCAGACGCAGGGAATCTAAATTTGTGY
27329 P T A CGCGCCGAGGTCAGGGAATCTAAATTTGTGAAY
27329 T G A TGCTTTCACAAATTTAGATTCCCTGCCATCTTCTTGTTTATGTTGGTCCCAGGGGAAGCCAG
27329 T T A TGCTTTCACAAATTTAGATTCCCTGACATCTTCTTGTTTATGTTGGTCCCAGGGGAAGCCAG
CTGCTATCACTGGACTGGGAGAGGCTGGCTTCCCCTGGGACCAACATAAACAAGAAGATG[GT]CAGGGAATCTAAATT
27329 IS [GT] TGTGAAAGCACAAAATCCAGATGAAGGAATGGGTCAGAGCTAGCA
27355 I A GCTCTCACTGGGAGCTGTGTAGGACCCAGT
27355 P G A ATGACGTGGCAGACGGGGGAGCACACCY
27355 P C A CGCGCCGAGGCGGGGAGCACACCY
27355 T G A CTGGGGTGTGCTCCCCCCTGGGTCCTACACAGCTCCCAGTGAGAGCTG
27355 T C A CTGGGGTGTGCTCCCCGCTGGGTCCTACACAGCTCCCAGTGAGAGCTG
TAAGAGAGCCAACCCCAAGTAAGGAAGATCAGCTCTCACTGGGAGCTGTGTAGGACCCAG[GC]GGGGAGCACACCC
27355 IS [GC] CAGGAAAGGGCTGCCGGTGGATCCGGAGGCCTGACCTGGGGCCCAGG ctg15478 1
27384 I S CCTGCATTGCCCTTAATCCCCCCATCTCAA
27384 P G S ATGACGTGGCAGACCACGGGCTGCCAY
27384 P A S CGCGCCGAGGTACGGGCTGCCAGY
27384 T G S GGAACTGGCAGCCCGTGTGAGATGGGGGGATTAAGGGCAATGCAGGGG
27384 T A S GGAACTGGCAGCCCGTATGAGATGGGGGGATTAAGGGCAATGCAGGGG
TCTTTCCAAGTGTTGTCCCCAAACTCCTGGGACTCTTGGTTTTTGGAACTGGCAGCCCGT[GA]TGAGATGGGGGGATT
27384 IS [GA] AAGGGCAATGCAGGGGGGTGAGTACAAAGATTAAGGTCTGGGGAC ctg15907 6
27413 I A CACCTCTCTCCTTGTCCAAATCCCACTTATCCTTAAAGTTCTATGATAAA
27413 P T A CGCGCCGAGGTTCATATCCCACCGCAY
27413 P C A ATGACGTGGCAGACCTCATATCCCACCGCAY
27413 T T A CAAATGCGGTGGGATATGAATTATCATAGAACTTTAAGGATAAGTGGGATTTGGACAAGGAGAGAGGTGAG
27413 T C A CAAATGCGGTGGGATATGAGTTATCATAGAACTTTAAGGATAAGTGGGATTTGGACAAGGAGAGAGGTGAG
AACTCTCTCCTCACCTCTCTCCTTGTCCAAATCCCACTTATCCTTAAAGTTCTATGATAA[TC]TCATATCCCACCGCATT
27413 IS [TC] TGTGAAGGCTGCACCTGCCCCAGCTCACTCTGGCTTTCGGCAC ctg15907 6

FIGURE 129D

27709 I		A	AGCAGATAAGCAGCAGAGGAAGAAGTTTAAATCCAA			
27709 P	T	A	CGCGCCGAGGTAGTCAATTATGCATTAATGACAGY			
27709 P	C	A	ATGACGTGGCAGACCAGTCAATTATGCATTAATGACAY			
27709 T	T	A	CCTGCTGTCATTAATGCATAATTGACTATGGATTTAAACTTCTTCCTCTGCTGCTTATCTGCTCT			
27709 T	C	A	CCTGCTGTCATTAATGCATAATTGACTGTGGATTTAAACTTCTTCCTCTGCTGCTTATCTGCTCT			
27709 IS	[TC]		AACAATTTGATTCGCTATGAAGTAGAGCAGATAAGCAGCAGAGGAAGAAGTTTAAATCCA[TC]AGTCAATTATGCATTA ATGACAGCAGGAGTTCAATTATAACACCAGTGAGTGGAGATCTA	ctg15590	7	
27809 I		S	GCCCTCCCCTGCATGCGGGGA			
27809 P	G	S	ATGACGTGGCAGACCGACAGGGACTTCCATY			
27809 P	A	S	CGCGCCGAGGTGACAGGGACTTCCATCY			
27809 T	G	S	CCCTGATGGAAGTCCCTGTCGCCCCGCATGCAGGGGAGGGCTT			
27809 T	A	S	CCCTGATGGAAGTCCCTGTCACCCCGCATGCAGGGGAGGGCTT			
27809 IS	[GA]		TGTCCCTGCTGGTGCTTATAAGACAGCCAGCCCTGCTGGTCCCTGATGGAAGTCCCTGTC[GA]CCCCGCATGCAGGG GAGGGCTTCCTTTAGCTTACAGGAGAAATCAACCCTAAAGTGACTA	ctg13414	X	
27840 I		A	GGTCTGAACTGAGGATAGCATTAGAGCTATTGGGGACTAAAAA			
27840 P	C	A	ATGACGTGGCAGACCGAACTGGGCTTGGTY			
27840 P	T	A	CGCGCCGAGGTGAACTGGGCTTGGTY			
27840 T	C	A	TCAAACCAAGCCCAGTTCGTTTTAGTCCCCAATAGCTCTAATGCTATCCTCAGTTCAGACCCT			
27840 T	T	A	TCAAACCAAGCCCAGTTCATTTTAGTCCCCAATAGCTCTAATGCTATCCTCAGTTCAGACCCT			
27840 IS	[CT]		CCAAACACCAGTGATGAGGGTCTGAACTGAGGATAGCATTAGAGCTATTGGGGACTAAAA[CT]GAACTGGGCTTGGTT TGAATGTATGGGGTAAGATGAAGCCCAGATTTCTGTCTTTGGCCC	ctg15907	6	
28062 I		A	GCTCGACGGCTTTCTTTGGCCTTTCATATCTACCTT			
28062 P	A	A	CGCGCCGAGGATTGTTCTCTCAAGACAAAACTY			
28062 P	G	A	ATGACGTGGCAGACGTTGTTCTCTCAAGACAAAACY			
28062 T	A	A	TACCAGTTTTGTCTTGAGAGAACAATAGGTAGATATGAAAGGCCAAAGAAAGCCGTCGAGCTT			
28062 T	G	A	TACCAGTTTTGTCTTGAGAGAACAACAGGTAGATATGAAAGGCCAAAGAAAGCCGTCGAGCTT			
28062 IS	[AG]		GGCCTGATTGACCAAAGTGACCCAAGCTCGACGGCTTTCTTTGGCCTTTCATATCTACCT[AG]TTGTTCTCTCAAGACA AAACTGGTATTTCTCACTGGAACCCACCAAATCCATGAAGTGGT	ctg14747	2	
28149 I		S	GGGATCACACTATTACTGTTGTTGTTATTGTTGTTTAGATTAAAACTAAT			
28149 P	C	S	ATGACGTGGCAGACGTTAGAGAATTTACCTTTTGCATY			
28149 P	T	S	CGCGCCGAGGATTAGAGAATTTACCTTTTGCATGY			
28149 T	C	S	GTCTCATGCAAAAGGTAAATTCTCTAACTTAGTTTTAATCTAAACAACAACAATAACAACAACAGTAATAGTGTGATCCC CA			
28149 T	T	S	GTCTCATGCAAAAGGTAAATTCTCTAATTTAGTTTTAATCTAAACAACAACAATAACAACAACAGTAATAGTGTGATCCC CA			
28149 IS	[CT]		CCTAATTCTGGATTCACCTAACAGGGCTATTTAGTCTCATGCAAAAGGTAAATTCTCTAA[CT]TTAGTTTTAATCTAAAC AACAACAATAACAACAACAGTAATAGTGTGATCCCCATTTCCT			
28179 I		A	CCGAGGCCCCGGGGGAGGC			
28179 P	T	A	CGCGCCGAGGTGGGGAGGCAGAAAGY			
28179 P	G	A	ATGACGTGGCAGACGGGGGAGGCAGAAAY			
28179 T	T	A	TTTTCTTTCTGCCTCCCCACCTCCCCCGGGGCCTCGGGG			
28179 T	G	A	TTTTCTTTCTGCCTCCCCCCCTCCCCCGGGGCCTCGGGG			
28179 IS	[TG]		GGCTCAGGGCCGCTGGGGGGAGTTTGCGCAAGGCTGGGAGCCCCGAGGCCCCGGGGGAGG[TG]GGGGAGGCAGA AAGAAAAAGAGCCTTTTTTAAGTTTTACAAACAAGTTCGTTTTGTATGT	ctg15972	16	
28199 I		S	CAATGACTGGGTGGAAAAAGATGAATTTTCCCTGAAACTTCTCAC			
28199 P	A	S	CGCGCCGAGGTTGAATTTCTGGTTGCTGC			
28199 P	T	S	ATGACGTGGCAGACATGAATTTCTGGTTGCTGC			
28199 T	A	S	CTTAGCAGCAACCAGAAATTCAATGAGAAGTTTCAGGGAAAATTCATCTTTTTCCACCCAGTCATTGAG			
28199 T	T	S	CTTAGCAGCAACCAGAAATTCATTGAGAAGTTTCAGGGAAAATTCATCTTTTTCCACCCAGTCATTGAG			
28199 IS	[AT]		CTTTCCAAGGATAAACAGGGTTAGGTGCTGCCAGCCTTCTTAGCAGCAACCAGAAATTCA[AT]TGAGAAGTTTCAGGG AAAATTCATCTTTTTCCACCCAGTCATTGAGAGCAAGGTTTTATG	ctg17036	17	
28856 I		S	GGTGGGGGCACTGAGAAGGGGTGAGA			
28856 P	A	S	CGCGCCGAGGTTTGGAACTTTTGCTCCCY			
28856 P	G	S	ATGACGTGGCAGACCTTGGAACTTTTGCTCCCY			
28856 T	A	S	CAAAGGGAGCAAAAGTTCCAAACTCACCCCTTCTCAGTGCCCCCACCCA			
28856 T	G	S	CAAAGGGAGCAAAAGTTCCAAGCTCACCCCTTCTCAGTGCCCCCACCCA			
28856 IS	[AG]		AGGCTAAGTTATTGATGTTTATTTAAAGGGCTATTGAAGAGAAGTTATTACATATTAGGAGAAAAAGTCTAGAAATGGG CAAAGGGAGCAAAAGTTCCAA[AG]CTCACCCCTTCTCAGTGCCCCCACCCACTCCCCCAGATGGACAGACCTTGAGAT CTCAGGGCTGCCGGAGAACTTTCCACTCCTTGGTCTTCAGGCTTCT	MULTIPLE	MULTIPLE	
34703 I		A	GCATGAAGGTACGGGGCCCAGGGTT			
34703 P	C	A	CGCGCCGAGGCGGGGGACTCATAGCY			
34703 P	G	A	ATGACGTGGCAGACGGGGGGACTCATAGCY			
34703 T	C	A	CCATGCTATGAGTCCCCCGACCCTGGGCCCCGTACCTTCATGCTG			
34703 T	G	A	CCATGCTATGAGTCCCCCCACCCTGGGCCCCGTACCTTCATGCTG			
34703 IS	[CG]		GCCGCAGACACCCAGCCACTCTGAGCAGAACTGACAGCATGAAGGTACGGGGCCCAGGGT[CG]GGGGGACTCATAG CATGGGGGAACTGAGCCCACTCCAGAGGCCCCTGGCCACAGAGGGCA	ctg12369	1	
35282 I		S	GGGCCAGCCCACAAGGCCTACTA			
35282 P	G	S	ATGACGTGGCAGACCTGAGGTAGCTCTCCCY			
35282 P	A	S	CGCGCCGAGGTTGAGGTAGCTCTCCCY			
35282 T	G	S	AGGAGGGAGAGCTACCTCAGAGTAGGCCTTGTGGGCTGGCCCCT			
35282 T	A	S	AGGAGGGAGAGCTACCTCAAAGTAGGCCTTGTGGGCTGGCCCCT			
35282 IS	[GA]		TTGGAGGGCTGCCAGCTTCTGAAGCTACTGCCAGAGATCAGAGGAGGGAGAGCTACCTCA[GA]AGTAGGCCTTGTGG GCTGGCCCCTTCCCACAGCTTCACATGAGCCCCACTAGGGGCTGAT	ctg13517	11	
35349 I		A	CCAGTGCCAACAGTCCTTCAGCCCACT			
35349 P	C	A	CGCGCCGAGGCAGGGTCTGCGGGY			
35349 P	G	A	ATGACGTGGCAGACGAGGGTCTGCGGGY			
35349 T	C	A	GCGGCCCGCAGACCCTGGTGGGCTGAAGGACTGTTGGCACTGGGA			
35349 T	G	A	GCGGCCCGCAGACCCTCGTGGGCTGAAGGACTGTTGGCACTGGGA			
35349 IS	[CG]		TCCTGCCGCTCCCTCCCTCCTTCCCTCTGGGGTCCCAGTGCCAACAGTCCTTCAGCCCAC[CG]AGGGTCTGCGGGCC GCTTGCCTCAGTTTCCTTCCATGCAGAGCTCTTGTCTCACAGTGTT	ctg12369	1	
35546 I		S	AGGGTATCATGGTGAAGTTCTGATTTTAAATATGTGTCATTATATAGGAT			
35546 P	C	S	ATGACGTGGCAGACGAGCAGTCTCCCTAATTTGY			
35546 P	G	S	CGCGCCGAGGCAGCAGTCTCCCTAATTTGY			
35546 T	C	S	AACACAAATTAGGGAGACTGCTCTCCTATATAATGACACATATTTAAAATCAGAACTTCACCATGATACCCTTG			
35546 T	G	S	AACACAAATTAGGGAGACTGCTGTCCTATATAATGACACATATTTAAAATCAGAACTTCACCATGATACCCTTG			
35546 IS	[CG]		GTTCCAGTCTCCCTATATGCAGTCAGACTTTATGATTTAACACAAATTAGGGAGACTGCT[CG]TCCTATATAATGACAC ATATTTAAAATCAGAACTTCACCATGATACCCTTGACTATATTA	ctg15665	20	
35594 I		A	TGGTGCCCAGGGAGCTGGGGAA			
35594 P	C	A	ATGACGTGGCAGACCGAGGGGCCTCATCY			
35594 P	T	A	CGCGCCGAGGTGAGGGGCCTCATCY			
35594 T	C	A	GAAGGATGAGGCCCCTCGTCCCCAGCTCCCTGGGCACCACT			
35594 T	T	A	GAAGGATGAGGCCCCTCATCCCCAGCTCCCTGGGCACCACT			
35594 IS	[CT]		GCCAATGTTGAGGGACGGAGGTGGCCAGAGGCCTCTCAGTGGTGCCCAGGGAGCTGGGGA[CT]GAGGGGCCTCAT CCTTCCCCTGAGCCCCTCCCTTCAGGCCCAGGGAGTGGCCTGGGGCCC	ctg17441	9	

FIGURE 129D

35680 I		S	CCAGGATCGGCGCAGAAAGGAGAGGAA			
35680 P	G	S	ATGACGTGGCAGACCAAAGGGCACATTTGAATAAY			
35680 P	A	S	CGCGCCGAGGTAAAGGGCACATTTGAATAACY			
35680 T	G	S	ACATGTTATTCAAATGTGCCCTTTGTCCTCTCCTTTCTGCGCCGATCCTGGGT			
35680 T	A	S	ACATGTTATTCAAATGTGCCCTTTATCCTCTCCTTTCTGCGCCGATCCTGGGT			
35680 IS	[GA]		AGTTTCTAAAGGAGTGCTTTCATGCTATTTCTATCCACATGTTATTCAAATGTGCCCTTT[GA]TCCTCTCCTTTCTGCGC CGATCCTGGGTCCCAGGTGTCTGAGACAGAGCGGGAAGACCTT	ctg12824		13
35706 I		S	GGGGAGAGCGGCACGGAGACAGTTCT			
35706 P	C	S	ATGACGTGGCAGACGTTACTTTAGAAGTGGCAACTY			
35706 P	T	S	CGCGCCGAGGATTACTTTAGAAGTGGCAACTY			
35706 T	C	S	AAACAGTTGCCACTTCTAAAGTAACGAACTGTCTCCGTGCCGCTCTCCCCGC			
35706 T	T	S	AAACAGTTGCCACTTCTAAAGTAATGAACTGTCTCCGTGCCGCTCTCCCCGC			
35706 IS	[CT]		TATGTAAGAGCAGCCGCTAGGTCACCGCCTGGCTGCAAACAGTTGCCACTTCTAAAGTAA[CT]GAACTGTCTCCGTGC CGCTCTCCCCGCGGGGTAGAGAAGGGATCCTGCAGCGACAGGTTT	ctg16114		X
35756 I		A	CCAGCCAGGCCCTGCTGATCAGAACT			
35756 P	G	A	ATGACGTGGCAGACGGCTATGTGAAGCAGGY			
35756 P	A	A	CGCGCCGAGGAGCTATGTGAAGCAGGAY			
35756 T	G	A	TGCCTCCTGCTTCACATAGCCGTTCTGATCAGCAGGGCCTGGCTGGGA			
35758 T	A	A	TGCCTCCTGCTTCACATAGCTGTTCTGATCAGCAGGGCCTGGCTGGGA			
35756 IS	[GA]		TGCCTTCATACATGGTCTGAGCTCCCATCCACCTCCCAGCCAGGCCCTGCTGATCAGAAC[GA]GCTATGTGAAGCAG GAGGCAGCAAACAGGGCCCCAGGCTCAAATAGGCACTTCGTAGTGG	ctg16574		1
35810 I		A	CAGTGATGAGGGTCTGAACTGAGGATAGCATTAGAGCTAA			
35810 P	T	A	CGCGCCGAGGTTGGGGACTAAAACGAACY			
35810 P	C	A	ATGACGTGGCAGACCTGGGGACTAAAACGAACY			
35810 T	T	A	CCCAGTTCGTTTTAGTCCCCAATAGCTCTAATGCTATCCTCAGTTCAGACCCTCATCACTGGT			
35810 T	C	A	CCCAGTTCGTTTTAGTCCCCAGTAGCTCTAATGCTATCCTCAGTTCAGACCCTCATCACTGGT			
35810 IS	[TC]		GGAGACCAAACATCCAAACACCAGTGATGAGGGTCTGAACTGAGGATAGCATTAGAGCTA[TC]TGGGGACTAAAACGA ACTGGGCTTGGTTTGAATGTATGGGGTAAGATGAAGCCCAGATTT	ctg15064		7
35942 I		S	GGTGGCATGGACCCCAGTGTGTCAGAA			
35942 P	A	S	CGCGCCGAGGTGGTGTCTCTGTCCTCY			
35942 P	G	S	ATGACGTGGCAGACCGGTGTCTCTGTCCTCY			
35942 T	A	S	TGATGAGGACAGAGACACCATCTGACACACTGGGGTCCATGCCACCTT			
35942 T	G	S	TGATGAGGACAGAGACACCGTCTGACACACTGGGGTCCATGCCACCTT			
35942 IS	[AG]		ACGTTCAGAGGTCAGGTCTGAGAACTGTGGGATGTTGCCTGTGATGAGGACAGAGACACC[AG]TCTGACACACTGGG GTCCATGCCACCTTTCTGCCTCCACTCCCTATAGAAGATGTTGGAG	ctg13284		10
36211 I		S	GCGGAGGTGGTGAGAGAGGGGAAAAGTT			
36211 P	G	S	CGCGCCGAGGCCATAGTTGTCACACACCY			
36211 P	C	S	ATGACGTGGCAGACGCATAGTTGTCACACACCY			
36211 T	G	S	TTCAGGTGTGTGACAACTATGGACTTTTCCCCTCTCTCACCACCTCCGCCC			
36211 T	C	S	TTCAGGTGTGTGACAACTATGCACTTTTCCCCTCTCTCACCACCTCCGCCC			
36211 IS	[GC]		CAGTACTCCTTGGTTATCTGGCACACTGCGAGCTGTGATTTCAGGTGTGTGACAACTATG[GC]ACTTTTCCCCTCTCT CACCACCTCCGCCCCAAATACTGTCACCTTCTGCCAGATTAGCAG	ctg15907		6
36443 I		A	GGGGAGTGCGGAGGGACTGAAGAGGT			
36443 P	G	A	ATGACGTGGCAGACGGTCACTGAGAGCTCTY			
36443 P	C	A	CGCGCCGAGGCGTCACTGAGAGCTCTY			
36443 T	G	A	CCCCAGAGCTCTCAGTGACCCCTCTTCAGTCCCTCCGCACTCCCCCC			
36443 T	C	A	CCCCAGAGCTCTCAGTGACGCCTCTTCAGTCCCTCCGCACTCCCCCC			
36443 IS	[GC]		TGCTCTCAAGAGATGAGGGGAGGTGTGTATGGTGGGGGGAGTGCGGAGGGACTGAAGAGG[GC]GTCACTGAGAGCT CTGGGGCCCCTCAGCTGTGCAGGGGTCCTGACTCCTGGGCAGGACCC	ctg15907		6
36486 I		S	CAAATCAGTTGAGACATGTCTTTAGAATATGGAATTTGTGCCTACATGGAC			
36486 P	A	S	CGCGCCGAGGTCCTTAAGAAACTGTTAACAAGGY			
36486 P	T	S	ATGACGTGGCAGACACCTTAAGAAACTGTTAACAAGY			
36486 T	A	S	CAATCCTTGTTAACAGTTTCTTAAGGATCCATGTAGGCACAAATTCCATATTCTAAAGACATGTCTCAACTGATTTGGA			
36486 T	T	S	CAATCCTTGTTAACAGTTTCTTAAGGTTCCATGTAGGCACAAATTCCATATTCTAAAGACATGTCTCAACTGATTTGGA			
36486 IS	[AT]		TCCCCTTAGTTTCCTTACATTTCCTCTCCTAAGGCAATCCTTGTTAACAGTTTCTTAAGG[AT]TCCATGTAGGCACAAAT TCCATATTCTAAAGACATGTCTCAACTGATTTGGATGCATTTG	ctg13740		5
36966 I		A	CCAGCCAGCAAGGGGAGTCTGTGACTA			
36966 P	T	A	CGCGCCGAGGTACAAAGAATCATAGAACCTGAGY			
36966 P	C	A	ATGACGTGGCAGACCACAAAGAATCATAGAACCTGAY			
36966 T	T	A	GGCTCTCAGGTTCTATGATTCTTTGTAAGTCACAGACTCCCCTTGCTGGCTGGGA			
36966 T	C	A	GGCTCTCAGGTTCTATGATTCTTTGTGAGTCACAGACTCCCCTTGCTGGCTGGGA			
36966 IS	[TC]		CAGAGATTTGCCATCTAAGACCCCAAAGAGGGTCCCAGCCAGCAAGGGGAGTCTGTGACT[TC]ACAAAGAATCATAGA ACCTGAGAGCCCAAGCACTCTTAGACACTTAGCTCATACTTTTCA	ctg15665		20
36995 I		S	GATGCTTGGTGAACACAGACCTTCACGTGGAA			
36995 P	G	S	ATGACGTGGCAGACCGGGGCCATTCCTY			
36995 P	A	S	CGCGCCGAGGTGGGGCCATTCCTTCY			
36995 T	G	S	AGTAGAAGGAATGGCCCCGTCCACGTGAAGGTCTGTGTTCACCAAGCATCTT			
36995 T	A	S	AGTAGAAGGAATGGCCCCATCCACGTGAAGGTCTGTGTTCACCAAGCATCTT			
36995 IS	[GA]		CTGCCAGGAAAGAGCATGGCACAGCCTCGTTCTCCAGCGTAGAGTAGAAGGAATGGCCCC[GA]TCCACGTGAAGGTC TGTGTTCACCAAGCATCTTCTGTAGAAAAATGCTCTCTTCGCCTGA			
37280 I		S	GCCAGCGAGTCGCAGGGCAGCT			
37280 P	C	S	ATGACGTGGCAGACGTCGCCCAGGCATY			
37280 P	T	S	CGCGCCGAGGATCGCCCAGGCATCY			
37280 T	C	S	CCTGGATGCCTGGGCGACGCTGCCCTGCGACTCGCTGGCCT			
37280 T	T	S	CCTGGATGCCTGGGCGATGCTGCCCTGCGACTCGCTGGCCT			
37280 IS	[CT]		GTGAGGAGGGTCCTGCCTGCACCGCTTTGCAGACATGGGCCAGCCTGGATGCCTGGGCGA[CT]GCTGCCCTGCGAC TCGCTGGCCTGCAGGACATCTGCAAAACATTCAGGTCTCACGGCAGT	ctg13516		6
38340 I		A	ATGGACCGTGGTTTGTTACTATAGTGTTCCTCATGGCT			
38340 P	G	A	ATGACGTGGCAGACGAGCAGATGGAACCGY			
38340 P	C	A	CGCGCCGAGGCAGCAGATGGAACCGY			
38340 T	G	A	CTCCCGGTTCCATCTGCTCGCCATGAGGAACACTATAGTAACAAACCACGGTCCATGA			
38340 T	C	A	CTCCCGGTTCCATCTGCTGGCCATGAGGAACACTATAGTAACAAACCACGGTCCATGA			
38340 IS	[GC]		GCTGAAAGTTACAAAAATGCTTCATGGACCGTGGTTTGTTACTATAGTGTTCCTCATGGC[GC]AGCAGATGGAACCGG GAGACATGGAGTCCCTGGCCAGTGTGAGTCCTAGCATTGCAGGAG	ctg13934		8
38342 I		A	CCTGGGCTCTTGTGTGCCTCACAGCAT			
38342 P	G	A	ATGACGTGGCAGACGGTCAGAGTGAGTCTGGY			
38342 P	A	A	CGCGCCGAGGAGTCAGAGTGAGTCTGGY			
38342 T	G	A	GGGACCAGACTCACTCTGACCTGCTGTGAGGCACACAAGAGCCCAGGCA			
38342 T	A	A	GGGACCAGACTCACTCTGACTTGCTGTGAGGCACACAAGAGCCCAGGCA			
38342 IS	[GA]		CCCCATGCCAGTCTTCTCAAGGCGGCAGCCTCTGCCTGGGCTCTTGTGTGCCTCACAGCA[GA]GTCAGAGTGAGTCT GGTCCCTATGGGGGGTGGTGGTGGGTGCGGCATTTGAGCTGCACCG	ctg15330		9
38427 I		S	GCTGCTGCTGTGCAGACCATGGATGCT			
38427 P	C	S	ATGACGTGGCAGACGTAGCTGAGTTCCTGCY			
38427 P	T	S	CGCGCCGAGGATAGCTGAGTTCCTGCCY			
38427 T	C	S	CAGGGGCAGGAACTCAGCTACGCATCCATGGTCTGCACAGCAGCAGCCC			
38427 T	T	S	CAGGGGCAGGAACTCAGCTATGCATCCATGGTCTGCACAGCAGCAGCCC			

FIGURE 129D

				GGGTAAGTCACTTCCCTGTCTTTCTGAGACTCTAGGAAATCAGGGGCAGGAACTCAGCTA[CT]GCATCCATGGTCTGC			
38427	IS	[CT]		ACAGCAGCAGCCCAGATAAGTTCCAAGAGCTGCAGAGGCTGTCAG	ctg15907	6	
38449	I		S	GAAAGGGAAGGGGACGGACAGGGAGGT			
38449	P	C	S	ATGACGTGGCAGACGGAGAGAGAGGGAAGAGY			
38449	P	G	S	CGCGCCGAGGCGAGAGAGAGGGAAGAGY			
38449	T	C	S	TCTCCTCTTCCCTCTCTCTCCCCTCCCTGTCCGTCCCCTTCCCTTTCTG			
38449	T	G	S	TCTCCTCTTCCCTCTCTCTCGCCTCCCTGTCCGTCCCCTTCCCTTTCTG			
				CCCCACCTCTCTCCTCCTCCCTCTCAGCCCCCTCCCTCTGTCTCCTCTTCCCTCTCTCTC[CG]CCTCCCTGTCCGTCC			
38449	IS	[CG]		CCTTCCCTTTCTGCCCCTCCCTCTGTCCCTCTCCCAGTCTCTCCC	ctg15907	6	
38695	I		S	GGGTCTGATGGGGTTTCACCCTGGAATAGTGTA			
38695	P	G	S	ATGACGTGGCAGACCAGCAGAAATCATGTTTTCAAY			
38695	P	A	S	CGCGCCGAGGTAGCAGAAATCATGTTTTCAAGY			
38695	T	G	S	TCTCCTTGAAAACATGATTTCTGCTGACACTATTCCAGGGTGAAACCCCATCAGACCCCA			
38695	T	A	S	TCTCCTTGAAAACATGATTTCTGCTAACACTATTCCAGGGTGAAACCCCATCAGACCCCA			
				GTAATCTTAATTTTCTAGGGGTGGATGATATGCATTCTCCTTGAAAACATGATTTCTGCT[GA]ACACTATTCCAGGGTG			
38695	IS	[GA]		AAACCCCATCAGACCCCAGAACAAGGAAGGCCCTGCACCCCCAC	ctg14391	11	
38702	I		S	CCCCTACCACGTGCCAGGCTGCT			
38702	P	T	S	CGCGCCGAGGACTGCGTGCAGATGY			
38702	P	C	S	ATGACGTGGCAGACGCTGCGTGCAGATGY			
38702	T	T	S	GGGGCATCTGCACGCAGTGCAGCCTGGCACGTGGTAGGGGAT			
38702	T	C	S	GGGGCATCTGCACGCAGCGCAGCCTGGCACGTGGTAGGGGAT			
				TGGGCTCCATGTCACCTGGCTCCCTCCAGTCCCCGTGAGCGCAGGGGCATCTGCACGCAG[TC]GCAGCCTGGCACG			
38702	IS	[TC]		TGGTAGGGGATGAATGTATGTCTCTTGGTTACATGAGAGAAAGCAGC	ctg12581	4	KIAA0135
39306	I		S	CATGAAATCAACATTAGAAAATAAGGTAGAAAACTGAGTGTTTTGCTTAAAT			
39306	P	T	S	CGCGCCGAGGAAATAAAAAAGGATTAAATAGCTGTTGY			
39306	P	G	S	ATGACGTGGCAGACCAATAAAAAAGGATTAAATAGCTGTTY			
				GATACAACAGCTATTTAATCCTTTTTTATTTTTTAAGCAAAACACTCAGTTTTCTACCTTATTTTCTAATGTTGATTTCAT			
39306	T	T	S	GGT			
				GATACAACAGCTATTTAATCCTTTTTTATTGTTTAAGCAAAACACTCAGTTTTCTACCTTATTTTCTAATGTTGATTTCAT			
39306	T	G	S	GGT			
				TGTAGAGATGGAAGCAGAACGTGATGTTTGGATACAACAGCTATTTAATCCTTTTTTATT[TG]TTTAAGCAAAACACTCA			
39306	IS	[TG]		GTTTTCTACCTTATTTTCTAATGTTGATTTCATGGTAATACTG	ctg14189	19	
39442	I		S	CAAGGACATGCATATGATGGCTTTCAGAGCTCTGAGTTTAGT			
39442	P	T	S	CGCGCCGAGGATGTTTCCAAACACACATGY			
39442	P	C	S	ATGACGTGGCAGACGTGTTTCCAAACACACATGY			
39442	T	T	S	TGTGCATGTGTGTTTGGAAACATCTAAACTCAGAGCTCTGAAAGCCATCATATGCATGTCCTTGGG			
39442	T	C	S	TGTGCATGTGTGTTTGGAAACACCTAAACTCAGAGCTCTGAAAGCCATCATATGCATGTCCTTGGG			
				GAAACTGTTGGAAAACCAAGGAAAATGGCCACAGGGTATGTGCATGTGTGTTTGGAAACA[TC]CTAAACTCAGAGCTC			
39442	IS	[TC]		TGAAAGCCATCATATGCATGTCCTTGGGATGTCCCCTGCCTCCCT	ctg15907	6	
39619	I		S	GCAGAGACCAGTGCCCTGCCCACA			
39619	P	A	S	CGCGCCGAGGTGGCTTCGGGGAGY			
39619	P	G	S	ATGACGTGGCAGACCGGCTTCGGGGAGY			
39619	T	A	S	CGAGCTCCCCGAAGCCAGTGGGCAGGGCACTGGTCTCTGCCA			
39619	T	G	S	CGAGCTCCCCGAAGCCGGTGGGCAGGGCACTGGTCTCTGCCA			
				TGGCTCACCTTCCACCAGTAGCACCATCCCCACAGCCAGCACCTCGAGCTCCCCGAAGCC[AG]GTGGGCAGGGCACT			
39619	IS	[AG]		GGTCTCTGCCATCCTCACTCTCCCTCACTGCCAGTGGCCCAGCTGT	ctg13446	1	
39756	I		S	AGTCACTGCTTCTCTGACCCTTCCCTCATTCTCTACT			
39756	P	C	S	ATGACGTGGCAGACGTCGTGGAATTGCTGGY			
39756	P	T	S	CGCGCCGAGGATCGTGGAATTGCTGGY			
39756	T	C	S	GCTCCCAGCAATTCCACGACGTAGAGAATGAGGGAAGGGTCAGAGAAGCAGTGACTTG			
39756	T	T	S	GCTCCCAGCAATTCCACGATGTAGAGAATGAGGGAAGGGTCAGAGAAGCAGTGACTTG			
				TGTGTGCCAGTGGGTTCTGTACACACATGATCCCAGTTAACGCTCCCAGCAATTCCACGA[CT]GTAGAGAATGAGGGA			
39756	IS	[CT]		AGGGTCAGAGAAGCAGTGACTTGGTTGAAATCTTGCTGCCCAGTG	ctg22fin4	22	
39773	I		A	GGCACTGGAGTGTGGGAACTGGGCT			
39773	P	G	A	ATGACGTGGCAGACGGTCTCCCACAGAGGY			
39773	P	A	A	CGCGCCGAGGAGTCTCCCACAGAGGY			
39773	T	G	A	GTGCCCTCTGTGGGAGACCGCCCAGTTCCCACACTCCAGTGCCCT			
39773	T	A	A	GTGCCCTCTGTGGGAGACTGCCCAGTTCCCACACTCCAGTGCCCT			
				CAGCCGGCAGCAGTTATGCAAATGTTCCTGTCCCAGGGCACTGGAGTGTGGGAACTGGGC[GA]GTCTCCCACAGAG			
39773	IS	[GA]		GGCACAAAGGCATCAAGGGGGGGCGGGGAGGCACCCCGGTGGGTCTA	ctg13446	1	
40026	I		S	GTATCTTCTTGAGCTAGGCTCCCTAGTGCCCAA			
40026	P	A	S	CGCGCCGAGGTGAGTCAGTCCCTCTAGAY			
40026	P	G	S	ATGACGTGGCAGACCGAGTCAGTCCCTCTAGY			
40026	T	A	S	GTGATCTAGAGGGACTGACTCATGGGCACTAGGGAGCCTAGCTCAAGAAGATACAC			
40026	T	G	S	GTGATCTAGAGGGACTGACTCGTGGGCACTAGGGAGCCTAGCTCAAGAAGATACAC			
				TGGCGATTTTGCAAAATCCCTGTTCCCTCCATACCCCTGGTGATCTAGAGGGACTGACTC[AG]TGGGCACTAGGGAG			
40026	IS	[AG]		CCTAGCTCAAGAAGATACACTTGAACAGGGACAGAGCTCTTCAGGG	ctg22fin10	22	
40032	I		A	CACAGTCCCTGCCTGTGTCCCCCT			
40032	P	C	A	ATGACGTGGCAGACCACTCTTGACTGTCCCCY			
40032	P	A	A	CGCGCCGAGGAACTCTTGACTGTCCCCY			
40032	T	C	A	AGTGGGGGACAGTCAAGAGTGGGGGGACACAGGCAGGGACTGTGCG			
40032	T	A	A	AGTGGGGGACAGTCAAGAGTTGGGGGACACAGGCAGGGACTGTGCG			
				GTGCATACTCGTTGAGTCTTTGTGTTGGGTGGAGTCGCACAGTCCCTGCCTGTGTCCCCC[CA]ACTCTTGACTGTCCC			
40032	IS	[CA]		CCACTTCCCTAGCCTCCCTCTCCTGGGCACTCAGAAGCTCTGCTC	ctg18037	7	
40045	I		S	AAGGAGGGACCAGGGCAGGCAGAT			
40045	P	C	S	ATGACGTGGCAGACGATCCCAGCCCAGGY			
40045	P	G	S	CGCGCCGAGGCATCCCAGCCCAGGY			
40045	T	C	S	GCATCCTGGGCTGGGATCTCTGCCTGCCCTGGTCCCTCCTTGC			
40045	T	G	S	GCATCCTGGGCTGGGATGTCTGCCTGCCCTGGTCCCTCCTTGC			
				GTGGCCACGGTGCTCTTCCAAGCTCCCTGCCAGACCGCCATGGGCATCCTGGGCTGGGAT[CG]TCTGCCTGCCCTG			
40045	IS	[CG]		GTCCCTCCTTGCACCTTTTTCTCACAGTCTTCAGGAGGGATCTCCTG	ctg15842	19	
40093	I		A	CCCCAAATGGTCTGATTCAGGACAGCTGGGT			
40093	P	A	A	CGCGCCGAGGAATAAGAGTGTGGCTGGY			
40093	P	G	A	ATGACGTGGCAGACGATAAGAGTGTGGCTGGY			
40093	T	A	A	TCTGCCAGCCACACTCTTATTCCCAGCTGTCCTGAATCAGACCATTTGGGGTC			
40093	T	G	A	TCTGCCAGCCACACTCTTATCCCCAGCTGTCCTGAATCAGACCATTTGGGGTC			
				TTCTAAGAAGGCCTTTACAGAGCAATAAGACCCCAAATGGTCTGATTCAGGACAGCTGGG[AG]ATAAGAGTGTGGCTG			
40093	IS	[AG]		GCAGAATCGAGGGGCTGTTCTTTAGGACAGCTACCTGCTTTGCTT	ctg19262	19	
40129	I		A	CCAGGAGCCCTGCACCAAGACAGCT			
40129	P	G	A	ATGACGTGGCAGACGGCCGTGAGGGAGY			
40129	P	A	A	CGCGCCGAGGAGCCGTGAGGGAGY			
40129	T	G	A	CTCCCTCCCTCACGGCCGCTGTCTTGGTGCAGGGCTCCTGGTC			
40129	T	A	A	CTCCCTCCCTCACGGCTGCTGTCTTGGTGCAGGGCTCCTGGTC			
				AGTGGCAGTGCTGGGTGAGAAGAAGGTGGGAGATGACCAGGAGCCCTGCACCAAGACAGC[GA]GCCGTGAGGGAG			
40129	IS	[GA]		GGAGAGAGTGTGGGGTGCACAGCAGAAGGTGGATGTTTGGGGCTGTCT	ctg18466	16	
40203	I		S	ACATGGATGAGTCTGCTGACCTGGATGGGTA			
40203	P	G	S	ATGACGTGGCAGACCCGGACGCACTCTCY			
40203	P	A	S	CGCGCCGAGGTCGGACGCACTCTCY			
40203	T	G	S	GCAAGAGAGTGCGTCCGGACCCATCCAGGTCAGCAGACTCATCCATGTCA			

FIGURE 129D

40203 T	A	S	GCAAGAGAGTGCGTCCGAACCCATCCAGGTCAGCAGACTCATCCATGTCA				
40203 IS	[GA]		TTAGTAGCTCCTTTCTCTCCTTCCCACTTCTCAGAACACACAGGCAAGAGAGTGCGTCCG[GA]ACCCATCCAGGTCAG CAGACTCATCCATGTCAAATACAGCTCACATTGGTATCTCCTGCC	ctg18297	19		
40230 I		A	TGTTGCAGAAATTCCCAGCATTGGCTGGCT				
40230 P	C	A	CGCGCCGAGGCGCTGGAGGGGAAGY				
40230 P	G	A	ATGACGTGGCAGACGGCTGGAGGGGAAGY				
40230 T	C	A	CCTGCTTCCCCTCCAGCGGCCAGCCAATGCTGGGAATTTCTGCAACAGT				
40230 T	G	A	CCTGCTTCCCCTCCAGCCGCCAGCCAATGCTGGGAATTTCTGCAACAGT				
40230 IS	[CG]		AGGTGAAAATCAGCAGCCTTTTACTGCTTACTGTTGCAGAAATTCCCAGCATTGGCTGGC[CG]GCTGGAGGGGAAGC AGGAAGGTAGGTGTGCCTCTAGCTCCCTCTACAGGGCTGTGCCCCA	ctg25099	7		
40630 I		A	GAGAAAATACCAAGGCAGATCAAAGGCTAGCTGATCACTGT				
40630 P	A	A	CGCGCCGAGGACTACGTTATCTCTTTTTTGTGAY				
40630 P	G	A	ATGACGTGGCAGACGCTACGTTATCTCTTTTTTGTGY				
40630 T	A	A	ATAGTCACAAAAAAGAGATAACGTAGTCAGTGATCAGCTAGCCTTTGATCTGCCTTGGTATTTTCTCTG				
40630 T	G	A	ATAGTCACAAAAAAGAGATAACGTAGCCAGTGATCAGCTAGCCTTTGATCTGCCTTGGTATTTTCTCTG				
40630 IS	[AG]		TAAGTGGTGAGACCTTCCCAGAGAAAATACCAAGGCAGATCAAAGGCTAGCTGATCACTG[AG]CTACGTTATCTCTTTT TTGTGACTATTAATAATTTTAAGGTGAAGGCTTGTCTTTCTGAC	ctg16508	19		
40851 I		S	CCCCTGAAGAACATATCTGATCCCCAGAAAGAAAGAGTCAT				
40851 P	C	S	ATGACGTGGCAGACGTCTAAGTGGAGGGAGGY				
40851 P	T	S	CGCGCCGAGGATCTAAGTGGAGGGAGGY				
40851 T	C	S	TCTTCCTCCCTCCACTTAGACTGACTCTTTCTTTCTGGGGATCAGATATGTTCTTCAGGGGAG				
40851 T	T	S	TCTTCCTCCCTCCACTTAGATTGACTCTTTCTTTCTGGGGATCAGATATGTTCTTCAGGGGAG				
40851 IS	[CT]		GCTCTAACAGGCAGCCCAGCCCAGCTCATTCAGCTGCTTTTCTTCCCTCCCTCCACTTAGA[CT]TGACTCTTTCTTTCTG GGGATCAGATATGTTCTTCAGGGGAGCAGTTCTCAGCAGGTACA	ctg16508	19		
40867 I		A	TGGAGCCCCATCATGGCAGGTACAAAGTAGTC				
40867 P	T	A	CGCGCCGAGGTCCTCATCCTTATTTACATGCY				
40867 P	A	A	ATGACGTGGCAGACACCTCATCCTTATTTACATGCY				
40867 T	T	A	GCTTGCATGTAAATAAGGATGAGGAACTACTTTGTACCTGCCATGATGGGGCTCCAAG				
40867 T	A	A	GCTTGCATGTAAATAAGGATGAGGTACTACTTTGTACCTGCCATGATGGGGCTCCAAG				
40867 IS	[TA]		TATACTGAATGACTCACACCTCTTGGGCTTGGAGCCCCATCATGGCAGGTACAAAGTAGT[TA]CCTCATCCTTATTTAC ATGCAAGCCATCAGACTTCTTTTTAAGTTGCACTCTTGGGTTTA	ctg15140	12		
40934 I		A	GCAGCAGATGGCAGGCGTGAGCCA				
40934 P	T	A	CGCGCCGAGGTAGCTGCCCAGGGY				
40934 P	C	A	ATGACGTGGCAGACCAGCTGCCCAGGGY				
40934 T	T	A	CCAGCCCTGGGCAGCTAGGCTCACGCCTGCCATCTGCTGCAG				
40934 T	C	A	CCAGCCCTGGGCAGCTGGGCTCACGCCTGCCATCTGCTGCAG				
40934 IS	[TC]		ATGGGCTGGGGCTGGGCTCTCTGGTCATCCCGTCCCTGCAGCAGATGGCAGGCGTGAGCC[TC]AGCTGCCCAGGGC TGGGAGCTGCAAGCTGCTGTCTGTCCACCAGGTGTCAGTGTGGGTCT	ctg12325	11		
41671 I		S	GCAGCTTCACTATGAGGAGGGCTCTCCCA				
41671 P	G	S	ATGACGTGGCAGACCGGAACCTGGGTACTCY				
41671 P	A	S	CGCGCCGAGGTGGAACCTGGGTACTCY				
41671 T	G	S	GTGGGAGTACCCAGGTTCCGGGGAGAGCCCTCCTCATAGTGAAGCTGCCC				
41671 T	A	S	GTGGGAGTACCCAGGTTCCAGGGAGAGCCCTCCTCATAGTGAAGCTGCCC				
41671 IS	[GA]		TCTTCTTGGTAGGTGTGATGCTGGGGCGTGGAGTGGAGGAGGTGGGAGTACCCAGGTTCC[GA]GGGAGAGCCCTCC TCATAGTGAAGCTGCCCAGGGGTGGGAGAGAGAAGAGACAGAGCCTC	ctg21fin5	21	KIAA0285	
41718 I		S	CCCCACCTTCCAGCGGGCCTGT				
41718 P	C	S	ATGACGTGGCAGACGTGAGACGTTTCCTCCTY				
41718 P	T	S	CGCGCCGAGGATGAGACGTTTCCTCCTY				
41718 T	C	S	CTGCAGGAGGAAACGTCTCACCAGGCCCGCTGGAAGGTGGGGTG				
41718 T	T	S	CTGCAGGAGGAAACGTCTCATCAGGCCCGCTGGAAGGTGGGGTG				
41718 IS	[CT]		CCACAGGCCTGGGAGCTGCCCCATCTCCACCAAGTTCAGGCTGCAGGAGGAAACGTCTCA[CT]CAGGCCCGCTGGA AGGTGGGGTGGTGATGAAATGTGGGGGTTCTTCAGCGAGAGTGGAAT	ctg16587	15		
41746 I		S	GGAGAGGCAGTGCCGAGCTTGCCT				
41746 P	T	S	CGCGCCGAGGAAGGATTAGAGCCTCCCY				
41746 P	C	S	ATGACGTGGCAGACGAGGATTAGAGCCTCCCY				
41746 T	T	S	AGGTGGGAGGCTCTAATCCTTGGCAAGCTCGGCACTGCCTCTCCTG				
41746 T	C	S	AGGTGGGAGGCTCTAATCCTCGGCAAGCTCGGCACTGCCTCTCCTG				
41746 IS	[TC]		GCTGGGTGATCAAGCTGCAACTTGCATAACGGGAGCAAGAAGGTGGGAGGCTCTAATCCT[TC]GGCAAGCTCGGCAC TGCCTCTCCTGTTAGGTGAATGGGCAGATCTGCTTCCCAGGCTGCG	ctg17003	14		
41768 I		A	CGCTGCAGCAGAGGGCCAGGAGT				
41768 P	G	A	ATGACGTGGCAGACGGTCCAAGCAGTGCY				
41768 P	A	A	CGCGCCGAGGAGTCCAAGCAGTGCTY				
41768 T	G	A	TCACAGCACTGCTTGGACCCTCCTGGCCCTCTGCTGCAGCGCT				
41768 T	A	A	TCACAGCACTGCTTGGACTCTCCTGGCCCTCTGCTGCAGCGCT				
41786 IS	[GA]		GAGAACCACATGGAGCAGATATGGGCGGTGCAGCAGAGCGCTGCAGCAGAGGGCCAGGAG[GA]GTCCAAGCAGTGC TGTGATCATCCGACTCTCTAACCATGAACTCACCTAGAGATGCATTC	ctg17003	14		
41784 I		A	GGGTCACATAGTGAGGGAGGCAAGGCC				
41784 P	A	A	CGCGCCGAGGAGCGTAAGGCAGTGGY				
41784 P	T	A	ATGACGTGGCAGACTGCGTAAGGCAGTGGY				
41784 T	A	A	TCAGCCACTGCCTTACGCTGCCTTGCCTCCCCTCACTATGTGACCCAC				
41784 T	T	A	TCAGCCACTGCCTTACGCAGCCTTGCCTCCCCTCACTATGTGACCCAC				
41784 IS	[AT]		GCAGCCCAGTTGTCACTTGTAACAAACCCCAGTGGGTCACATAGTGAGGGGAGGCAAGGC[AT]GCGTAAGGCAGTGG CTGAACTATCCCAGAAAACAAGGATCACAGGCCCCCAGTGACACCA	ctg17003	14		
41898 I		S	ACGGATGCAGAAGAAATGGAAGCAGGAACT				
41898 P	T	S	CGCGCCGAGGATGTATTATTACTCTTTTAGCTGAGY				
41898 P	C	S	ATGACGTGGCAGACGTGTATTATTACTCTTTTAGCTGAGY				
41898 T	T	S	AAGATCTCAGCTAAAAGAGTAATAATACATGTTCCTGCTTCCATTTCTTCTGCATCCGTAA				
41898 T	C	S	AAGATCTCAGCTAAAAGAGTAATAATACACGTTCCTGCTTCCATTTCTTCTGCATCCGTAA				
41898 IS	[TC]		ATTCATTTTGAGTAACAAAAAAGATTTTCCTAAGATCTCAGCTAAAAGAGTAATAATACA[TC]GTTCCTGCTTCCATTTCT TCTGCATCCGTAAAATTATTAATAATCACTTAGCTGCCACCA	ctg2846	11		
41965 I		A	CCAGCTCCCACAGGGCAAGGCTCT				
41965 P	G	A	ATGACGTGGCAGACGTGCCCTGAGGCAY				
41965 P	A	A	CGCGCCGAGGATGCCCTGAGGCAGY				
41965 T	G	A	ATGTCTGCCTCAGGGCACGAGCCTTGCCCTGTGGGAGCTGGGA				
41965 T	A	A	ATGTCTGCCTCAGGGCATGAGCCTTGCCCTGTGGGAGCTGGGA				
41965 IS	[GA]		AGTTCTTTAAGTGTGAAATTCTCTGAGTAACACAATCCCAGCTCCCACAGGGCAAGGCTC[GA]TGCCCTGAGGCAGAC ATATGGCTGATACACTTTCCCTTTTTGTCTTCCCAAAGGGAGTCT	ctg22fin3	22		
41998 I		S	GCCTGAAGCGAATGTGGCCAGCGAAGC				
41998 P	C	S	ATGACGTGGCAGACGCCTCCTGGACCGY				
41998 P	A	S	CGCGCCGAGGTCCTCCTGGACCGAY				
41998 T	C	S	GGGGTCGGTCCAGGAGGCCTTCGCTGGCCACATTCGCTTCAGGCCC				
41998 T	A	S	GGGGTCGGTCCAGGAGGACTTCGCTGGCCACATTCGCTTCAGGCCC				
41998 IS	[CA]		GCCTGCACCCCGCCGACCAGCACCCGTCGCGGGGAGCCACAAGGGGGTCGGTCCAGGAGG[CA]CTTCGCTGGCCA CATTCGCTTCAGGCCCTGGTTTGTGAGGTTTCTTCTCTCTCCCTGCCC	ctg22fin3	22		
42054 I		A	GTCTCTTTGTTGCCACTTGCCCAGTTTTGACCTTTTAATTTT				
42054 P	C	A	ATGACGTGGCAGACCCAGTGGCTTAAAATTAATGATTY				
42054 P	A	A	CGCGCCGAGGACAGTGGCTTAAAATTAATGATTTY				

FIGURE 129D

42054	T	C	A	TTCTAAATCATTAATTTTAAGCCACTGGAAATTAAAAGGTCAAAACTGGGCAAGTGGCAACAAAGAGACTT				
42054	T	A	A	TTCTAAATCATTAATTTTAAGCCACTGTAAATTAAAAGGTCAAAACTGGGCAAGTGGCAACAAAGAGACTT				
42054	IS	[CA]		ACCAGTTTTCAGGTTGAAAGTCTCTTTGTTGCCACTTGCCCAGTTTTGACCTTTTAATTT[CA]CAGTGGCTTAAAATTAA TGATTTAGAATCTCTCTCCAACTGGGCTTGTCAACTACTCCCG	ctg22fin6	22		
42081	I		S	AGTTTGCCATGGATGCGGCTGCCACT				
42081	P	C	S	ATGACGTGGCAGACGGCTGCTGCTCAGY				
42081	P	T	S	CGCGCCGAGGAGCTGCTGCTCAGCY				
42081	T	C	S	TCACGCTGAGCAGCAGCCGTGGCAGCCGCATCCATGGCAAACTGC				
42081	T	T	S	TCACGCTGAGCAGCAGCTGTGGCAGCCGCATCCATGGCAAACTGC				
42081	IS	[CT]		GCTGCTGGGTGAGGGCTGGGGGGAATGTCGGATGAGAGTGGTGTCACGCTGAGCAGCAGC[CT]GTGGCAGCCGCA TCCATGGCAAACTGCCTCATGGCACGTTCCTCCAAATACTTCTGCTCC	ctg22fin4	22	LCCP	
42390	I		S	CACTGTTCCTGTACTTCTGTCTTACCGCCCCATTT				
42390	P	C	S	ATGACGTGGCAGACGCCCATCCATAGATCTGAY				
42390	P	T	S	CGCGCCGAGGACCCATCCATAGATCTGACY				
42390	T	C	S	CAGAGTCAGATCTATGGATGGGCAATGGGGCGGTAAGACAGAAGTACAGGAACAGTGAT				
42390	T	T	S	CAGAGTCAGATCTATGGATGGGTAATGGGGCGGTAAGACAGAAGTACAGGAACAGTGAT				
42390	IS	[CT]		CCACTGGCATGACTTCAGCCAAACTTCATCGGTGTTTCCAGAGTCAGATCTATGGATGGG[CT]AATGGGGCGGTAAGA CAGAAGTACAGGAACAGTGATCAGTGCATGGGAGGAAGGCTGGGT	ctg22fin4	22		
42474	I		A	GCTTAGACATGACTCCAGTCATTTTTTCCCTAGGCTATTGCT				
42474	P	A	A	CGCGCCGAGGAATTGTCATTAAATGCATCAACCY				
42474	P	C	A	ATGACGTGGCAGACCATTGTCATTAAATGCATCAACY				
42474	T	A	A	CTGTGGTTGATGCATTTAATGACAATTGCAATAGCCTAGGGAAAAAATGACTGGAGTCATGTCTAAGCTT				
42474	T	C	A	CTGTGGTTGATGCATTTAATGACAATGGCAATAGCCTAGGGAAAAAATGACTGGAGTCATGTCTAAGCTT				
42474	IS	[AC]		TACGCCTCTGTTTCCTCAAGCTTAGACATGACTCCAGTCATTTTTTCCCTAGGCTATTGC[AC]ATTGTCATTAAATGCAT CAACCACAGCTTAATGTATAGTTTAATTGTAGAATCCATGATC	ctg22fin4	22		
42770	I		S	TCTCTGCTGTTTTTGTGCATGTTATCTATCTGGCTTATC				
42770	P	A	S	CGCGCCGAGGTCAGGTCTCTGATGTCCY				
42770	P	C	S	ATGACGTGGCAGACGCAGGTCTCTGATGTCCY				
42770	T	A	S	AGATGGACATCAGAGACCTGAATAAGCCAGATAGATAACATGCACAAAAACAGCAGAGAAT				
42770	T	C	S	AGATGGACATCAGAGACCTGCATAAGCCAGATAGATAACATGCACAAAAACAGCAGAGAAT				
42770	IS	[AC]		TACAGGGAGGGAGGTTTGCATTTAAAAACACCTAAGGGTTAGATGGACATCAGAGACCTG[AC]ATAAGCCAGATAGAT AACATGCACAAAAACAGCAGAGAATGTAAGGAAGAACCCACTTAG	MULTIPLE	MULTIPLE		
42807	I		A	CGTGACCTGGGTCTCCGCCCCA				
42807	P	T	A	CGCGCCGAGGTAGTGCTTCCCCGCY				
42807	P	C	A	ATGACGTGGCAGACCAGTGCTTCCCCGCY				
42807	T	T	A	AGCTGCGGGGAAGCACTAGGGGCGGAGACCCAGGTCACGGA				
42807	T	C	A	AGCTGCGGGGAAGCACTGGGGGCGGAGACCCAGGTCACGGA				
42807	IS	[TC]		CCTCCGTCGGTCTCAGGCCCCTGGCCCTGGCCTGCTCTCCGTGACCTGGGTCTCCGCCCC[TC]AGTGCTTCCCCGC AGCTCCACCGTCTGTGGTCGGCGGGGCCTCAGTGACCGCACGCTCTG	MULTIPLE	MULTIPLE		
42981	I		A	AGGTGGAGAGGGTGGGGGGAATAGAAGGA				
42981	P	C	A	ATGACGTGGCAGACCTGTTACAGCTGAGTTTTCCY				
42981	P	T	A	CGCGCCGAGGTTGTTACAGCTGAGTTTTCCY				
42981	T	C	A	CACAGGAAAACTCAGCTGTAACAGCCTTCTATTCCCCCCACCCTCTCCACCTCT				
42981	T	T	A	CACAGGAAAACTCAGCTGTAACAACCTTCTATTCCCCCCACCCTCTCCACCTCT				
42981	IS	[CT]		CAGAAGGACCAAACCTTAGAAAGGAAGACTAGAGGTGGAGAGGGTGGGGGGAATAGAAGG[CT]TGTTACAGCTGAGT TTTCCTGTGTGCTATGAAATATGCAAAAAAGAGAGAACCAGGGCCT	ctg22fin1	22		
43296	I		S	TCCCCTTCACTCCATTGCACAACCCAGGT				
43296	P	C	S	ATGACGTGGCAGACGTCAGGCGCAGGAY				
43296	P	T	S	CGCGCCGAGGATCAGGCGCAGGATTY				
43296	T	C	S	GGGCAATCCTGCGCCTGACCCTGGGTTGTGCAATGGAGTGAAGGGGACT				
43296	T	T	S	GGGCAATCCTGCGCCTGATCCTGGGTTGTGCAATGGAGTGAAGGGGACT				
43298	IS	[CT]		GGCTTAGCCAGAGCCACCTCCTCTTTCCCACTTGGAGGCTAGGGGCAATCCTGCGCCTGA[CT]CCTGGGTTGTGCAA TGGAGTGAAGGGGACTTAGGGCGGTCAAGAGCCAGAGGCATTGCCG	ctg22fin1	22		
43349	I		A	TGCCAAAGGAGAAAATATTTAGCAAGCATTCAAGAGAACAAGTTTTTGTTTTTC				
43349	P	A	A	CGCGCCGAGGAAAAAAAATCTAGGTAGAGTTTTCTACY				
43349	P	T	A	ATGACGTGGCAGACTAAAAAAATCTAGGTAGAGTTTTCTACY				
43349	T	A	A	GTTGGTAGAAAACTCTACCTAGATTTTTTTTAAAAACAAAAACTTGTTCTCTTGAATGCTTGCTAAATATTTTCTCCTTTG GCAGG				
43349	T	T	A	GTTGGTAGAAAACTCTACCTAGATTTTTTTTAAAAACAAAAACTTGTTCTCTTGAATGCTTGCTAAATATTTTCTCCTTTG GCAGG				
43349	IS	[AT]		TCAAACCTGCCAAAGGAGAAAATATTTAGCAAGCATTCAAGAGAACAAGTTTTTGTTTTT[AT]AAAAAAATCTAGGTAGA GTTTTCTACCAACACTGAACTGAATTATGTTTTTGTTTGTTTC	MULTIPLE	22		
43603	I		S	GGCCAGGAGGCAGCAGGGCCT				
43603	P	C	S	ATGACGTGGCAGACGGATGAGGAGGCCTGY				
43603	P	G	S	CGCGCCGAGGCGATGAGGAGGCCTGY				
43603	T	C	S	AGGCCAGGCCTCCTCATCCGGCCCTGCTGCCTCCTGGCCCT				
43603	T	G	S	AGGCCAGGCCTCCTCATCGGGCCCTGCTGCCTCCTGGCCCT				
43603	IS	[CG]		AAGAGTGCAGGTCATTCTAATGGCGGCCGCACCTACCAGGTCAGGCCAGGCCTCCTCATC[CG]GGCCCTGCTGCCTC CTGGCCCTGGGACTTCCTGCTTCATTGCGGGTGTTCTGGGGTCTCT	ctg22fin4	22		
43627	I		A	GCCTACCAGTAACCATTAATTGTCCTCAGTAAGTACCCCCT				
43627	P	G	A	ATGACGTGGCAGACGATCTCATTTCTATGTGTCTAAATAAGY				
43627	P	C	A	CGCGCCGAGGCATCTCATTTCTATGTGTCTAAATAAY				
43627	T	G	A	CAGTCTTATTTAGACACATAGAAATGAGATCGGGGGTACTTACTGAGGACAATTAATGGTTACTGGTAGGCTC				
43627	T	C	A	CAGTCTTATTTAGACACATAGAAATGAGATGGGGGGTACTTACTGAGGACAATTAATGGTTACTGGTAGGCTC				
43627	IS	[GC]		TCTGGACTGGGAGGTAAGGAGCCTACCAGTAACCATTAATTGTCCTCAGTAAGTACCCCC[GC]ATCTCATTTCTATGT GTCTAAATAAGACTGTTGGACTTTCATAATGTAAAGAGCCACTCG	ctg22fin4	22		
43793	I		A	AGGTCCAGCTCAGTCTCCCAGAGAGACTAAACATGT				
43793	P	G	A	ATGACGTGGCAGACGGTGGGTGACAATGATGY				
43793	P	A	A	CGCGCCGAGGAGTGGGTGACAATGATGY				
43793	T	G	A	GAGGCATCATTGTCACCCACCCATGTTTAGTCTCTCTGGGAGACTGAGCTGGACCTGT				
43793	T	A	A	GAGGCATCATTGTCACCCACTCATGTTTAGTCTCTCTGGGAGACTGAGCTGGACCTGT				
43793	IS	[GA]		AAGCCTGAGGGATGCTGAGGAGCACAGGTCCAGCTCAGTCTCCCAGAGAGACTAAACATG[GA]GTGGGTGACAATGA TGCCTCTCTTCCTCTGGGACAAGGCAGTGACTCCAGGCTATGTGAT	ctg22fin4	22		
43874	I		S	GGCTCAGCGTCTTCCCCCCACCT				
43874	P	C	S	ATGACGTGGCAGACGAGCTACGGGTCCTGY				
43874	P	T	S	CGCGCCGAGGAAGCTACGGGTCCTGY				
43874	T	C	S	CCACCAGGACCCGTAGCTCGGTGGGGGGAAGACGCTGAGCCTC				
43874	T	T	S	CCACCAGGACCCGTAGCTTGGTGGGGGGAAGACGCTGAGCCTC				
43874	IS	[CT]		ACTGCACCTGAGGGTCAGCGGGCAGGTTTGCCCAGGGGAGCACCACCAGGACCCGTAGCT[CT]GGTGGGGGGAAG ACGCTGAGCCTCTGCCTTTCAGATGTGGGGGCAGCAAGACAGTAGGCA	ctg22fin4	22		
43885	I		S	CACCAGGACGGCCTGGTGCCTGA				
43885	P	G	S	ATGACGTGGCAGACCGGGCAGCTACAGCY				
43885	P	A	S	CGCGCCGAGGTGGGCAGCTACAGCY				

FIGURE 129D

43885 T	G	S	CCCTGCTGTAGCTGCCCGCAGGCACCAGGCCGTCCTGGTGGT				
43885 T	A	S	CCCTGCTGTAGCTGCCCACAGGCACCAGGCCGTCCTGGTGGT				
43885 IS	[GA]		CATCTTCCCAGCTGGAGAAGGACCACTGTCGAGCCACTGCTCTCCCTGCTGTAGCTGCCC[GA]CAGGCACCAGGCCG TCCTGGTGGTAGAGTCTGCAGGCTCCAGCAGACAGCCATGCAGAAT	ctg22fin4	22		
43890 I		A	TGTCCGATTCACAATTGGAACAAAAACAAACAAAACACCCATGT				
43890 P	A	A	CGCGCCGAGGAGGAAAATGGTACTTCTGGY				
43890 P	G	A	ATGACGTGGCAGACGGGAAAATGGTACTTCTGGY				
43890 T	A	A	AACTCCAGAAGTACCATTTTCCTCATGGGTGTTTTGTTTGTTTTTGTTCCAATTGTGAATCGGACACC				
43890 T	G	A	AACTCCAGAAGTACCATTTTCCCCATGGGTGTTTTGTTTGTTTTTGTTCCAATTGTGAATCGGACACC				
43890 IS	[AG]		AATAAAATCCTGGCTGGTGTCCGATTCACAATTGGAACAAAAACAAACAAAACACCCATG[AG]GGAAAATGGTACTTCT GGAGTTCCTGTACTGCTCAGATCACATAAGGCTACAAAATTATA	ctg22fin4	22		
43955 I		S	AGCCCGGGACGGGCTCTGGAA				
43955 P	A	S	CGCGCCGAGGTACTTGCACCTTTGGTCY				
43955 P	G	S	ATGACGTGGCAGACCACTTGCACCTTTGGTY				
43955 T	A	S	ATGGGACCAAAGGTGCAAGTATCCAGAGCCCGTCCCGGGCTAT				
43955 T	G	S	ATGGGACCAAAGGTGCAAGTGTCCAGAGCCCGTCCCGGGCTAT				
43955 IS	[AG]		AGCTGAAGTCGAGCTGGGAAGCAGCTCCTGTCCCCCACCCATGGGACCAAAGGTGCAAGT[AG]TCCAGAGCCCGTC CCGGGCTATAGGGAGGCCCCTGCGGGCAGGGGAATCTTATAGCCGCT	ctg22fin4	22		
44387 I		S	CTCTCAGTCGAAGCGACCGGATTGACGCA				
44387 P	G	S	ATGACGTGGCAGACCGTCACACCAACACTGY				
44387 P	A	S	CGCGCCGAGGTGTCACACCAACACTGY				
44387 T	G	S	TCCCCAGTGTTGGTGTGACGGCGTCAATCCGGTCGCTTCGACTGAGAGAG				
44387 T	A	S	TCCCCAGTGTTGGTGTGACAGCGTCAATCCGGTCGCTTCGACTGAGAGAG				
44387 IS	[GA]		GTAGACTTGGAGGAGCGAAGAATTGAGCTGGTTATTGCTGCTCCCCAGTGTTGGTGTGAC[GA]GCGTCAATCCGGTC GCTTCGACTGAGAGAGTCTGAGTGATTCAAGCCACATGGGCGAGGA	ctg22fin1	22	FLJ20064	
44487 I		A	CGCCCTGGGTTTACCACGGTCACCT				
44487 P	A	A	CGCGCCGAGGACCACCTCTCTCACAGY				
44487 P	G	A	ATGACGTGGCAGACGCCACCTCTCTCACAY				
44487 T	A	A	GGCCCTGTGAGAGAGGTGGTGGTGACCGTGGTAAACCCAGGGCGGT				
44487 T	G	A	GGCCCTGTGAGAGAGGTGGCGGTGACCGTGGTAAACCCAGGGCGGT				
44487 IS	[AG]		GACAGCCCAGCGTAAGGACCCGTGATCCCACGCCACCGCCCTGGGTTTACCACGGTCACC[AG]CCACCTCTCTCACA GGGCCCCCGGGGGACCCAGCCGCGCCCGGCCTGGTGTCTGCACCGA				
44489 I		A	GTGGCTGCAGGTGGAGTCTGTGGCT				
44489 P	C	A	CGCGCCGAGGCTGTGGCGCACACY				
44489 P	G	A	ATGACGTGGCAGACGTGTGGCGCACACY				
44489 T	C	A	CTGGGTGTGCGCCACAGGCCACAGACTCCACCTGCAGCCACCC				
44489 T	G	A	CTGGGTGTGCGCCACACGCCACAGACTCCACCTGCAGCCACCC				
44489 IS	[CG]		CACTACCTGACACAGGAGACCATGTCTGGGCAGAGGGTGGCTGCAGGTGGAGTCTGTGGC[CG]TGTGGCGCACACC CAGGGGCTCCCCCGATGCTGGTTACTATCTGGGCTATGGTGGCCACA	ctg22fin4	22		
44615 I		S	TCCTCCACCAGCGGGCATTTTTGCGA				
44615 P	G	S	ATGACGTGGCAGACCTCACGCGCGACTY				
44615 P	A	S	CGCGCCGAGGTTCACGCGCGACTY				
44615 T	G	S	GAGCAGTCGCGCGTGAGCGCAAAAATGCCCGCTGGTGGAGGAGC				
44615 T	A	S	GAGCAGTCGCGCGTGAACGCAAAAATGCCCGCTGGTGGAGGAGC				
44615 IS	[GA]		TTCCCAGTCTTCTCGTAGACGGTCAGGAGAGCAATGACAGCCTGGAGCAGTCGCGCGTGA[GA]CGCAAAAATGCCCG CTGGTGGAGGAGCGCTTCCCCTCCCTCCCAAGCGATTTGCCGCATT	ctg22fin4	22		
44617 I		A	GAGGAAGGTGCCAGGTGCAGGGCT				
44617 P	A	A	CGCGCCGAGGATGGGGAAGGGCTTACY				
44617 P	G	A	ATGACGTGGCAGACGTGGGGAAGGGCTTAY				
44617 T	A	A	CGGAGTAAGCCCTTCCCCATGCCCTGCACCTGGCACCTTCCTCCT				
44617 T	G	A	CGGAGTAAGCCCTTCCCCACGCCCTGCACCTGGCACCTTCCTCCT				
44617 IS	[AG]		AGGAGATGAGGCTCTGGGAGCAAAAGCAGACCCACAGGAGGAAGGTGCCAGGTGCAGGGC[AG]TGGGGAAGGGCT TACTCCGTAAGTAGCTCACAACGTGGCTTGCCAGCTCTGAGTAGTCGA				
44643 I		S	GCATCCTGGGCGTTTCTTGCCCTCTT				
44643 P	T	S	CGCGCCGAGGACTGACTACTGATTGGATTTTAY				
44643 P	C	S	ATGACGTGGCAGACGCTGACTACTGATTGGATTTY				
44643 T	T	S	TAGGTAAAATCCAATCAGTAGTCAGTAGAGGGCAAGAAACGCCCAGGATGCCA				
44643 T	C	S	TAGGTAAAATCCAATCAGTAGTCAGCAGAGGGCAAGAAACGCCCAGGATGCCA				
44643 IS	[TC]		TGGAGAGGGAGAGAGTAGCAAGTTGCAGAAAGCCATAGGTAAAATCCAATCAGTAGTCAG[TC]AGAGGGCAAGAAAC GCCCAGGATGCCAATGATCACAGAGAAAGGAAAATGCTGAGAACAA	ctg13446	1	DPAGT1	
44644 I		S	TCTCCTTGCAGATCCTGGGCAGTGCCT				
44644 P	C	S	ATGACGTGGCAGACGTCACCTTCTCCATTCGY				
44644 P	T	S	CGCGCCGAGGATCACCTTCTCCATTCGAY				
44644 T	C	S	GATATCGAATGGAGAAGGTGACGGCACTGCCCAGGATCTGCAAGGAGAAA				
44644 T	T	S	GATATCGAATGGAGAAGGTGATGGCACTGCCCAGGATCTGCAAGGAGAAA				
44644 IS	[CT]		ATCAAGGACTCAGACATCATAGAAGAGTCGAACGAGCTGATATCGAATGGAGAAGGTGA[CT]GGCACTGCCCAGGA TCTGCAAGGAGAAATGGACTGGAGTAAGAATCACGCAGAAAGGGAG	ctg16829	1		
44679 I		A	GCCAGAGGTTATTCTCTTCCCTTCAGAACGGGGT				
44679 P	G	A	ATGACGTGGCAGACGCGGGATCGCTGCY				
44679 P	A	A	CGCGCCGAGGACGGGATCGCTGCY				
44679 T	G	A	GAAAGCAGCGATCCCGCCCCCGTTCTGAAGGGAAGAGAATAACCTCTGGCAA				
44679 T	A	A	GAAAGCAGCGATCCCGTCCCCGTTCTGAAGGGAAGAGAATAACCTCTGGCAA				
44679 IS	[GA]		TCCACCAGATTCTAGAAGGTAAAAATTGCCAGAGGTTATTCTCTTCCCTTCAGAACGGGG[GA]CGGGATCGCTGCTTT CCCCACTCTCTGTCCCCATGCCTCCTGGGCCTCAGGGTGCAGTCA	ctg15972	16		
44769 I		A	CGATAGCACGCAATCGCTGGTGTGCCT				
44769 P	G	A	ATGACGTGGCAGACGCGGGCAGCCGY				
44769 P	A	A	CGCGCCGAGGACGGGCAGCCGY				
44769 T	G	A	GGGACGGCTGCCCGCGGCACACCAGCGATTGCGTGCTATCGAG				
44769 T	A	A	GGGACGGCTGCCCGTGGCACACCAGCGATTGCGTGCTATCGAG				
44769 IS	[GA]		TGATTTGGTAACGGGGTCCCCTGTGACTCTCTCTCGATAGCACGCAATCGCTGGTGTGCC[GA]CGGGCAGCCGTCCC TCCCGCATGATCAAGTAAGACACAGGCCTGGTGGTGCCCATGCTTG				
44794 I		A	GCATCCGAAAGCCCTGAAGTCCCCCA				
44794 P	C	A	ATGACGTGGCAGACCGAGCAAAGCGATAGCY				
44794 P	T	A	CGCGCCGAGGTGAGCAAAGCGATAGCY				
44794 T	C	A	AGCCGCTATCGCTTTGCTCGGGGGGACTTCAGGGCTTTCGGATGCCT				
44794 T	T	A	AGCCGCTATCGCTTTGCTCAGGGGGACTTCAGGGCTTTCGGATGCCT				
44794 IS	[CT]		GAAACTGGACCAGAATGGGTAGAAGAGGCAGGGAGGCATCCGAAAGCCCTGAAGTC[CC]C[CT]GAGCAAAGCGATA GCGGCTGGGATGACAGTGGAGCCATGGAAGGGGAAAGAAATGGACAG				
44821 I		S	GCCCAGGCAGACATTTCTAAGCTTGGGAGAGA				
44821 P	A	S	CGCGCCGAGGTTGATGAGTGGTGCCTY				
44821 P	G	S	ATGACGTGGCAGACCTGATGAGTGGTGCCTY				
44821 T	A	S	TAGAAGGCACCACTCATCAACTCTCCCAAGCTTAGAAATGTCTGCCTGGGCAG				
44821 T	G	S	TAGAAGGCACCACTCATCAGCTCTCCCAAGCTTAGAAATGTCTGCCTGGGCAG				
44821 IS	[AG]		CTTTCTAACTACAGCTCAATTTCAGACTTTATTACATTCCCTAGAAGGCACCACTCATCA[AG]CTCTCCCAAGCTTAGAA ATGTCTGCCTGGGCAGGGAGGAAAATGTCAATCACCTTTATTT	ctg17253	1		
45629 I		S	CATGAATTGCTTTAGGCTGAATGGATTCATGCCCTGAT				
45629 P	G	S	ATGACGTGGCAGACCCTTGCACATGACGCY				

FIGURE 129D

45629 P	T	S	CGCGCCGAGGACTTGCACATGACGCY				
45629 T	G	S	CAGTGCGTCATGTGCAAGGTCAGGGCATGAATCCATTCAGCCTAAAGCAATTCATGTT				
45629 T	T	S	CAGTGCGTCATGTGCAAGTTCAGGGCATGAATCCATTCAGCCTAAAGCAATTCATGTT				
45629 IS	[GT]		CCAAAAGGACAAATGAACTCTCAGCTTCTCGCTGGGTTTATCCAGTGCGTCATGTGCAAG[GT]TCAGGGCATGAATCC ATTCAGCCTAAAGCAATTCATGTTAGAAATATTTGAGCCACACCT	ctg17326	12		
45673 I		A	GGGTTCAGATACGGAAGCCAGGGCCAT				
45673 P	C	A	CGCGCCGAGGCCCAGGAAGGAGAAGAGY				
45673 P	G	A	ATGACGTGGCAGACGCCAGGAAGGAGAAGAY				
45673 T	C	A	ACCCCTCTTCTCCTTCCTGGGTGGCCCTGGCTTCCGTATCTGAACCCAC				
45673 T	G	A	ACCCCTCTTCTCCTTCCTGGCTGGCCCTGGCTTCCGTATCTGAACCCAC				
45673 IS	[CG]		GGCCAGCCAGGAAGGAGAAGAGGGGTCCCCCAGTGGGTTCAGATACGGAAGCCAGGGCCA[CG]CCAGGAAGGAGA AGAGGGGTCCCCCAGTGGGTTCAGATACCCTGAAGGGGGGTCTGGGAC	ctg16306	4		
45683 I		A	GGGTGGGGCTGCTCAGCGGCT				
45683 P	A	A	CGCGCCGAGGATGGAGCTGAGGTCTGY				
45683 P	G	A	ATGACGTGGCAGACGTGGAGCTGAGGTCTGY				
45683 T	A	A	TCTTCAGACCTCAGCTCCATGCCGCTGAGCAGCCCCACCCTG				
45683 T	G	A	TCTTCAGACCTCAGCTCCACGCCGCTGAGCAGCCCCACCCTG				
45683 IS	[AG]		GACCCCGGCCTGCTGGCGGGGCGGGTAACGGGTTGAGCCAGGGTGGGGCTGCTCAGCGGC[AG]TGGAGCTGAGGT CTGAAGACCCAGCACAGGCGATTCCTTTCTGCGACGAGACAATTGCTA	ctg17042	11		
45713 I		A	TGGACACGGGGACCCAGCTCCCA				
45713 P	C	A	ATGACGTGGCAGACCACCTCCCCACCTCY				
45713 P	T	A	CGCGCCGAGGTACCTCCCCACCTCAY				
45713 T	C	A	TCTCTGAGGTGGGGAGGTGGGGAGCTGGGTCCCCGTGTCCAAG				
45713 T	T	A	TCTCTGAGGTGGGGAGGTAGGGAGCTGGGTCCCCGTGTCCAAG				
45713 IS	[CT]		TGCTCCCAGGAAAAAGCCTGGTGGGAGGGCAGGGGCCTTGGACACGGGGACCCAGCTCCC[CT]ACCTCCCCACCTC AGAGAGGCCTGGGAAATCATTCCTGGCAGTAGCCTGGCCTTGCCCGT	ctg14153	X		
45717 I		S	GGCCAGCAGGACCCGCCCGC				
45717 P	C	S	ATGACGTGGCAGACGTCCCGACCTTCCCY				
45717 P	A	S	CGCGCCGAGGTTCCCGACCTTCCCY				
45717 T	C	S	TCGAGGGAAGGTCGGGACCGGGCGGGTCCTGCTGGCCTA				
45717 T	A	S	TCGAGGGAAGGTCGGGAACGGGCGGGTCCTGCTGGCCTA				
45717 IS	[CA]		GCGAGCATGGTCGGAAATCATCGCCTTTATTTCTTGGCGGGTCTCGAGGGAAGGTCGGGA[CA]CGGGCGGGTCCTG CTGGCCTAGAGGGCGTCAGGGGCAGCCACCGGCGGCTCGGGATCCTC	ctg18251	1		
45738 I		A	CTCTACCTACTGGTGTCCTACAAAAACACAGAAATCAAACAACTGAAT				
45738 P	A	A	CGCGCCGAGGAACATAAGCACCAGAAGCY				
45738 P	G	A	ATGACGTGGCAGACGACATAAGCACCAGAAGCY				
45738 T	A	A	CTTTGCTTCTGGTGCTTATGTTTTCAGTTGTTTGATTTCTGTGTTTTTGTAGGACACCAGTAGGTAGAGGA				
45738 T	G	A	CTTTGCTTCTGGTGCTTATGTCTTCAGTTGTTTGATTTCTGTGTTTTTGTAGGACACCAGTAGGTAGAGGA				
45738 IS	[AG]		AGCCAGGCTCTTCCTCTACCTACTGGTGTCCTACAAAAACACAGAAATCAAACAACTGAA[AG]ACATAAGCACCAGAAG CAAAGGCTACAGTAGAATCAGTTCACTTATTCTTGCTAATGGTA	ctg16114	X		
45811 I		A	CTGGATCCAGGGGGTCAGTCCTTCCCT				
45811 P	G	A	ATGACGTGGCAGACGTTCTGTGCTAGATTGCTY				
45811 P	A	A	CGCGCCGAGGATTCTGTGCTAGATTGCTGY				
45811 T	G	A	TATACAGCAATCTAGCACAGAACGGGAAGGACTGACCCCCTGGATCCAGTT				
45811 T	A	A	TATACAGCAATCTAGCACAGAATGGGAAGGACTGACCCCCTGGATCCAGTT				
45811 IS	[GA]		CCCACTGTGTAACTTGCTGTCATTTACTTACAAACTGGATCCAGGGGGTCAGTCCTTCCC[GA]TTCTGTGCTAGATTG CTGTATAAGGACCTCACAGCAACTCTTCCCACTGACGTCACCGTG	ctg16574	1	MGC11266	
45906 I		A	CCAGGCCCAGACAGTGGCGGCT				
45906 P	C	A	ATGACGTGGCAGACCCGGTGGCATCGAY				
45906 P	A	A	CGCGCCGAGGACGGTGGCATCGAGY				
45906 T	C	A	CCCACTCGATGCCACCGGGCCGCCACTGTCTGGGCCTGGGA				
45906 T	A	A	CCCACTCGATGCCACCGTGCCGCCACTGTCTGGGCCTGGGA				
45906 IS	[CA]		TCTAAACCCTGAAGTACAGAAGGCAAGTGGGTCAAGATCCCAGGCCCAGACAGTGGCGGC[CA]CGGTGGCATCGAGT GGGTGCCGTGTATCTTGCAGGCACAGAACCTCCCGGGGAAGATGGA				
45956 I		A	TGTACTTTCCTCCTTTCGGAAGTTTGCCATATTCCTGACTTTTATT				
45956 P	G	A	ATGACGTGGCAGACGCTAATCATTTCCTCTCTTCAY				
45956 P	A	A	CGCGCCGAGGACTAATCATTTCCTCTCTTCATAGY				
45956 T	G	A	AAAACTATGAAGAGAGGAAATGATTAGCATAAAAGTCAGGAATATGGCAAACTTCCGAAAGGAGGAAAGTACATC				
45956 T	A	A	AAAACTATGAAGAGAGGAAATGATTAGTATAAAAGTCAGGAATATGGCAAACTTCCGAAAGGAGGAAAGTACATC				
45956 IS	[GA]		CAGCCTAGCTCCGGATGTACTTTCCTCCTTTCGGAAGTTTGCCATATTCCTGACTTTTAT[GA]CTAATCATTTCCTCTCT TCATAGTTTTTACCACCTCTGTGAAGTTGTTGTTGTTTTTTTT	ctg19	19		
45972 I		A	AGTATCTGTTTGCCAGGCAGAAAGCGCCTT				
45972 P	G	A	ATGACGTGGCAGACGTAGCTACTGGTCTCTTTCTY				
45972 P	C	A	CGCGCCGAGGCTAGCTACTGGTCTCTTTCTY				
45972 T	G	A	CTGCAGAAAGAGACCAGTAGCTACAGGCGCTTTCTGCCTGGCAAACAGATACTTC				
45972 T	C	A	CTGCAGAAAGAGACCAGTAGCTAGAGGCGCTTTCTGCCTGGCAAACAGATACTTC				
45972 IS	[GC]		TATCCCCGTGCGTAATTCCCATGCAACAGGAAGTATCTGTTTGCCAGGCAGAAAGCGCCT[GC]TAGCTACTGGTCTCT TTCTGCAGCCCTGCCAAACACAAGCAGCAATAAACCAATGGCCAT	ctg12325	11		
46106 I		S	GCCATGGCGATATTTTACTTATTTCATTAGACTGAGATGAGTAT				
46106 P	C	S	ATGACGTGGCAGACGCCCATTTATTAAAGATTGTGTY				
46106 P	T	S	CGCGCCGAGGACCCATTTATTAAAGATTGTGTGY				
46106 T	C	S	AGTACACACAATCTTTAATAAATGGGCTACTCATCTCAGTCTAATGAAATAAGTAAAATATCGCCATGGCAA				
46106 T	T	S	AGTACACACAATCTTTAATAAATGGGTTACTCATCTCAGTCTAATGAAATAAGTAAAATATCGCCATGGCAA				
46106 IS	[CT]		CCAACAAACACATTGGGATGCTAAAAAGAGAAACAGTACACACAATCTTTAATAAATGGG[CT]TACTCATCTCAGTCTAA TGAAATAAGTAAAATATCGCCATGGCAAAAATATATCTTAGAT	ctg19	19		
46122 I		S	GCTTTGCCGGAGCATGACTTACAGCAGATTTGATT				
46122 P	T	S	CGCGCCGAGGAGCCTGGATTTTGCTTTTY				
46122 P	C	S	ATGACGTGGCAGACGGCCTGGATTTTGCTTTY				
46122 T	T	S	GTGGAAAAGCAAAATCCAGGCTATCAAATCTGCTGTAAGTCATGCTCCGGCAAAGCCA				
46122 T	C	S	GTGGAAAAGCAAAATCCAGGCCATCAAATCTGCTGTAAGTCATGCTCCGGCAAAGCCA				
46122 IS	[TC]		TGGCTACGAGACAGCATGGCCTACCAGATGGGGACAGGTGTGGAAAAGCAAAATCCAGGC[TC]ATCAAATCTGCTGT AAGTCATGCTCCGGCAAAGCCACTTGAAGTCTAGCCTGCCATGGAC	ctg18911	9		
46142 I		S	GGGAGAGGCCTAAACCTTGGACACCCCT				
46142 P	C	S	ATGACGTGGCAGACGTCCCAGGGCAGCY				
46142 P	T	S	CGCGCCGAGGATCCCAGGGCAGCY				
46142 T	C	S	CTGTGCTGCCCTGGGACGGGGTGTCCAAGGTTTAGGCCTCTCCCAC				
46142 T	T	S	CTGTGCTGCCCTGGGATGGGGTGTCCAAGGTTTAGGCCTCTCCCAC				
46142 IS	[CT]		TTTGGTTCTGCTGGGCTTTCATGGGTGCTGTTTGTTTCTCTGGGCTGTGCTGCCCTGGGA[CT]GGGGTGTCCAAGGT TTAGGCCTCTCCCACAGGGCTGCACAGCAAATGTTGCACCGCTGCT	ctg22fin4	22		
46153 I		S	CGAGACACCAGAAAGTTGGAGAACAAGACTTTGAAAGAATTTGTT				
46153 P	T	S	CGCGCCGAGGATAAACTAACCCAATAAAAAGCGY				
46153 P	C	S	ATGACGTGGCAGACGTAAACTAACCCAATAAAAAGCGY				

FIGURE 129D

46153	T	T	S	GGAACGCTTTTTATTGGGTTAGTTTATACAAATTCTTTCAAAGTCTTGTTCTCCAACTTTCTGGTGTCTCGTG				
46153	T	C	S	GGAACGCTTTTTATTGGGTTAGTTTACACAAATTCTTTCAAAGTCTTGTTCTCCAACTTTCTGGTGTCTCGTG				
46153	IS	[TC]		AAGGCTCTGGATATTAAATCAGGCTCCTACTCCTGGAACGCTTTTTATTGGGTTAGTTTA[TC]ACAAATTCTTTCAAAGT CTTGTTCTCCAACTTTCTGGTGTCTCGTGGTCTTGGATTTTAC	ctg22fin6	22		
46333	I		S	TTCTGCTGGGAACCGTACCGGGATGGT				
46333	P	C	S	ATGACGTGGCAGACGTGTGGGACGGCCY				
46333	P	T	S	CGCGCCGAGGATGTGGGACGGCCY				
46333	T	C	S	TCGAGGCCGTCCCACACCCATCCCGGTACGGTTCCCAGCAGAACT				
46333	T	T	S	TCGAGGCCGTCCCACATCCATCCCGGTACGGTTCCCAGCAGAACT				
46333	IS	[CT]		GGCTCCGAGAGACTGCCTAGAAAAAACAGCACCCGGATCTGAATTCGAGGCCGTCCCACA[CT]CCATCCCGGTACGG TTCCCAGCAGAACTGAGCTGGAGTGGCCCTGATGCAAATGAACTTA	ctg22fin6	22		
46343	I		S	CCAAGTCTCTTTAGTTGGTGCAGTACCTGTAGAAGAATACAGCTATTTACT				
46343	P	C	S	ATGACGTGGCAGACGTGGAAGAAAGATTACTGTGAY				
46343	P	T	S	CGCGCCGAGGATGGAAGAAAGATTACTGTGACY				
46343	T	C	S	ACGAGTCACAGTAATCTTTCTTCCACGTAAATAGCTGTATTCTTCTACAGGTACTGCACCAACTAAAGAGACTTGGAA				
46343	T	T	S	ACGAGTCACAGTAATCTTTCTTCCATGTAAATAGCTGTATTCTTCTACAGGTACTGCACCAACTAAAGAGACTTGGAA				
46343	IS	[CT]		TGAACTCACAAATGATAAATGTAAATCTGGAAAATACGAGTCACAGTAATCTTTCTTCCA[CT]GTAAATAGCTGTATTCT TCTACAGGTACTGCACCAACTAAAGAGACTTGGAATTGTGTGG				
46357	I		S	GTGGGCAGTGATATCCCCAAATTGTAGAAATCAGAGATGGT				
46357	P	C	S	ATGACGTGGCAGACGGAACATGGCCTGTTTY				
46357	P	T	S	CGCGCCGAGGAGAACATGGCCTGTTTCY				
46357	T	C	S	CCCTGAAACAGGCCATGTTCCCCATCTCTGATTTCTACAATTTGGGGATATCACTGCCCACCC				
46357	T	T	S	CCCTGAAACAGGCCATGTTCTCCATCTCTGATTTCTACAATTTGGGGATATCACTGCCCACCC				
46357	IS	[CT]		TTCCTACAATAGACAAAAACCATCTGAGGGCTGGCAGGGACCCTGAAACAGGCCATGTTC[CT]CCATCTCTGATTTCT ACAATTTGGGGATATCACTGCCCACCCTTTCTGGAGCCGTGTGGT				
46429	I		S	GGCGGGGCCCTGGGCCT				
46429	P	T	S	CGCGCCGAGGAGTCTGCTGGCATTGAY				
46429	P	C	S	ATGACGTGGCAGACGGTCTGCTGGCATTGY				
46429	T	T	S	GTGATCAATGCCAGCAGACTGGCCCAGGGCCCCGCCCG				
46429	T	C	S	GTGATCAATGCCAGCAGACCGGCCCAGGGCCCCGCCCG				
46429	IS	[TC]		GAGAGGAAGAGGTGCTGATCCCCCCCTTTGAGACCTTCCAAGTGATCAATGCCAGCAGAC[TC]GGCCCAGGGCCCCG CCCGCATCTACCTCCGAGCCCTGGGCAAGCACAGCACCTACAACTG	ctg15379	X	ART1	
46568	I		S	CGGCTGGGGACGCGGGCT				
46568	P	T	S	CGCGCCGAGGATGGTGCGGCAGGY				
46568	P	C	S	ATGACGTGGCAGACGTGGTGCGGCAGGY				
46568	T	T	S	CAGGCCTGCCGCACCATGCCCGCGTCCCCAGCCGGC				
46568	T	C	S	CAGGCCTGCCGCACCACGCCCGCGTCCCCAGCCGGC				
46568	IS	[TC]		AGAAATTTCACCTTGAAAATCATCTCCCATCGACACAATCAAGGCAGGCCTGCCGCACCA[TC]GCCCGCGTCCCCAGC CGGCAGCCGGAAGGGCCAGGGTGGCCAGGGTGGGTCCAGCCCAAA	ctg15665	20		
46690	I		S	CCCAGCTGCAGACAGCATCTCCCCT				
46690	P	G	S	ATGACGTGGCAGACCAAACTGATGGGCCCY				
46690	P	T	S	CGCGCCGAGGAAAACTGATGGGCCCAY				
46690	T	G	S	TACTTGGGCCCATCAGTTTGGGGGAGATGCTGTCTGCAGCTGGGCA				
46690	T	T	S	TACTTGGGCCCATCAGTTTTGGGGAGATGCTGTCTGCAGCTGGGCA				
46690	IS	[GT]		AACTGCTTTATTTTACCCCCTGTTTCCAGAGCCTCACCCCCTACTTGGGCCCATCAGTTT[GT]GGGGAGATGCTGTCT GCAGCTGGGCAGCGCCAGAAGGCCTGTGACAGCACAGCATCTCTT	ctg13390	6		
46728	I		A	GCTTATAATCCTTAAAGGATTTTGAAAAGCCTTTGTTTTTAAAGAAACATCTA				
46728	P	T	A	CGCGCCGAGGTCCTTTTAAATGTTGCTACCTY				
46728	P	C	A	ATGACGTGGCAGACCCCTTTTAAATGTTGCTACCY				
46728	T	T	A	ACATAGGTAGCAACATTTAAAAGGAAGATGTTTCTTTAAAAACAAAGGCTTTTCAAAATCCTTTAAGGATTATAAGCTC				
46728	T	C	A	ACATAGGTAGCAACATTTAAAAGGGAGATGTTTCTTTAAAAACAAAGGCTTTTCAAAATCCTTTAAGGATTATAAGCTC				
46728	IS	[TC]		AATCTTGAGCTTATAATCCTTAAAGGATTTTGAAAAGCCTTTGTTTTTAAAGAAACATCT[TC]CCTTTTAAATGTTGCTAC CTATGTTATTGACAGGACATATAAGAAGACGAATCTTCACCA	ctg14932	16		
46840	I		A	CCACCTGCTGCCTCTGCCCGCT				
46840	P	A	A	CGCGCCGAGGATGGCAGGGGAATGGY				
46840	P	G	A	ATGACGTGGCAGACGTGGCAGGGGAATGY				
46840	T	A	A	CCGTCCATTCCCCTGCCATGCGGGCAGAGGCAGCAGGTGGGG				
46840	T	G	A	CCGTCCATTCCCCTGCCACGCGGGCAGAGGCAGCAGGTGGGG				
46840	IS	[AG]		GGATGGGCAGGGGCAGGCCTGGCCACCCCCTCGTCGGCCCCACCTGCTGCCTCTGCCCGC[AG]TGGCAGGGGAAT GGACGGGGCAGCCTCTGCCGGGCCTCAGATGTGAGGCCCTAACCCTCC	ctg15945	3		
46847	I		S	ACCTGAGGGAGTCCTTGCTGAACGTGCT				
46847	P	C	S	ATGACGTGGCAGACGGTGCAGGACTTACATTTY				
46847	P	T	S	CGCGCCGAGGAGTGCAGGACTTACATTTCY				
46847	T	C	S	CCCTGAAATGTAAGTCCTGCACCGCACGTTCAGCAAGGACTCCCTCAGGTCC				
46847	T	T	S	CCCTGAAATGTAAGTCCTGCACTGCACGTTCAGCAAGGACTCCCTCAGGTCC				
46847	IS	[CT]		ATGTCCCACGTTGGGCTGGTTTTCGTGGCAAACGTTAGCCCTGAAATGTAAGTCCTGCAC[CT]GCACGTTCAGCAAGG ACTCCCTCAGGTCCAGGCCAAGCCTTGACATACATGCTGGGCACC	ctg15296	11		
46877	I		S	GCCAGCCTCCTAACAAGCCAGACTTGCATTCT				
46877	P	T	S	CGCGCCGAGGAGACTCTTAGCCAGATTCAY				
46877	P	G	S	ATGACGTGGCAGACCGACTCTTAGCCAGATTCY				
46877	T	T	S	AGGCTGAATCTGGCTAAGAGTCTGAATGCAAGTCTGGCTTGTTAGGAGGCTGGCCT				
46877	T	G	S	AGGCTGAATCTGGCTAAGAGTCGGAATGCAAGTCTGGCTTGTTAGGAGGCTGGCCT				
46877	IS	[TG]		CCATAAACGCTTGCTAAAAGGCCTGCTGAGATCCTGGCAGGCTGAATCTGGCTAAGAGTC[TG]GAATGCAAGTCTGG CTTGTTAGGAGGCTGGCCTAGAAGCTGGCTGCATGGGAGGCTAACC	ctg16920	19		
46919	I		S	CACCAGAAAGAGGGATGCTACACGGGGGC				
46919	P	A	S	CGCGCCGAGGTTTCTCCTCTCAAGATAAGTCY				
46919	P	T	S	ATGACGTGGCAGACATTCTCCTCTCAAGATAAGTCY				
46919	T	A	S	CAGGGACTTATCTTGAGAGGAGAAACCCCCGTGTAGCATCCCTCTTTCTGGTGTT				
46919	T	T	S	CAGGGACTTATCTTGAGAGGAGAATCCCCCGTGTAGCATCCCTCTTTCTGGTGTT				
46919	IS	[AT]		AAGGTAAAAAAGAAAAAAGTGCTTGAAAATAATTCTCAGGGACTTATCTTGAGAGGAGAA[AT]CCCCCGTGTAGCATCC CTCTTTCTGGTGTTATCCGGTCCCTGCTCAGGGCACAAAGACCT	ctg17003	14		
46932	I		A	GGGATAAGCTGTCACTTCTCCGCACTTCCGAT				
46932	P	A	A	CGCGCCGAGGAGCATCTCTATATGGAACGTY				
46932	P	G	A	ATGACGTGGCAGACGGCATCTCTATATGGAACGY				
46932	T	A	A	GGAAACGTTCCATATAGAGATGCTTCGGAAGTGCGGAGAAGTGACAGCTTATCCCCT				
46932	T	G	A	GGAAACGTTCCATATAGAGATGCCTCGGAAGTGCGGAGAAGTGACAGCTTATCCCCT				
46932	IS	[AG]		TCTGCTGAGAGAACATGACGGCCTGAGAGGGGATAAGCTGTCACTTCTCCGCACTTCCGA[AG]GCATCTCTATATGGA ACGTTTCCCTGTTCCGGTCTGATCATCTTTCTCTTGATCCTGCTT	ctg17003	14		
46993	I		A	TCCAATTGCAGTCAAGTGTTGGCAAACCTT				
46993	P	G	A	ATGACGTGGCAGACGATCTTTCTGTGTATTTGCTCY				
46993	P	A	A	CGCGCCGAGGAATCTTTCTGTGTATTTGCTCY				
46993	T	G	A	AAACGAGCAAATACACAGAAAGATCAGGTTTGCCAACACTTGACTGCAATTGGAGA				
46993	T	A	A	AAACGAGCAAATACACAGAAAGATTAGGTTTGCCAACACTTGACTGCAATTGGAGA				

FIGURE 129D

				CACCAAAGTTTCTGGCAAAGATGAAAAATTCTCCAATTGCAGTCAAGTGTTGGCAAACCT[GA]ATCTTTCTGTGTATTT		
46993 IS	[GA]			GCTCGTTTGTGGATGTCTGTCCTAGGTCTTCAGTCTAGACTTCC	ctg16920	19
47023 I			S	CAGAGCCCAACACCGTGTGTGCACAA		
47023 P	G		S	ATGACGTGGCAGACCGCATAAACACACAAACCY		
47023 P	A		S	CGCGCCGAGGTGCATAAACACACAAACCTY		
47023 T	G		S	CACCAGGTTTGTGTGTTTATGCGTGTGCACACACGGTGTTGGGCTCTGGC		
47023 T	A		S	CACCAGGTTTGTGTGTTTATGCATGTGCACACACGGTGTTGGGCTCTGGC		
				CACTTCAAGGTGACATCTTCTTCTTGCATCTCAGATAGCACCAGGTTTGTGTGTTTATGC[GA]TGTGCACACACGGTGT		
47023 IS	[GA]			TGGGCTCTGGCGGTGGCCTGGGGGTGCTTAGGCTGTGCACAAAT	ctg16687	15
47051 I			A	GATAGGGAGCATCACACTGTTGGGAAATGTGCAT		
47051 P	A		A	CGCGCCGAGGATTTTCACTCAGCCAGCY		
47051 P	C		A	ATGACGTGGCAGACCTTTTCACTCAGCCAGCY		
47051 T	A		A	TGATGCTGGCTGAGTGAAAATTGCACATTTCCCAACAGTGTGATGCTCCCTATCCA		
47051 T	C		A	TGATGCTGGCTGAGTGAAAAGTGCACATTTCCCAACAGTGTGATGCTCCCTATCCA		
				ACAGAAGTCTGCCAAAAGCCCAGGCTGGATAGGGAGCATCACACTGTTGGGAAATGTGCA[AC]TTTTCACTCAGCCAG		
47051 IS	[AC]			CATCACTACCAGCTCCGGGCTTCTCTCCTCTGGCCTCCCACCTTG		
47067 I			S	CATGGAGGTGAGGCGGCCACCAAT		
47067 P	T		S	CGCGCCGAGGATGGAGGACAGGAAAGCY		
47067 P	C		S	ATGACGTGGCAGACGTGGAGGACAGGAAAGY		
47067 T	T		S	CCGAGCTTTCCTGTCCTCCATTTGGTGGCCGCCTCACCTCCATGGG		
47067 T	C		S	CCGAGCTTTCCTGTCCTCCACTTGGTGGCCGCCTCACCTCCATGGG		
				CCTGTCCCTACGCACACCCCCTGCCCCTGGGAGGCACATGCCGAGCTTTCCTGTCCTCCA[TC]TTGGTGGCCGCCTC		
47067 IS	[TC]			ACCTCCATGGGGTCGCAGGGCCCACACAGACAGCCTACTATGGTCC	MULTIPLE	MULTIPLE
47069 I			S	GGCAGGGCGCCCAGCCTCATT		
47069 P	C		S	ATGACGTGGCAGACGGAAAGGGTACGTTCGY		
47069 P	T		S	CGCGCCGAGGAGAAAGGGTACGTTCGGY		
47069 T	C		S	CTTCCCGAACGTACCCTTTCCATGAGGCTGGGCGCCCTGCCCT		
47069 T	T		S	CTTCCCGAACGTACCCTTTCTATGAGGCTGGGCGCCCTGCCCT		
				GGGCTGCCCCTGGAACCCAAGTCAGACTTGCCCTCGCCCCCTTCCCGAACGTACCCTTTC[CT]ATGAGGCTGGGCGC		
47069 IS	[CT]			CCTGCCCTGCCTTCAGTGCCAAAGCCCCAGGCCCACAGGCTGTGCA	ctg14007	17
47106 I			S	CAGCAGACAGAGCCCCGCCCCT		
47106 P	C		S	ATGACGTGGCAGACGGGCTCCCGTCGY		
47106 P	T		S	CGCGCCGAGGAGGCTCCCGTCGY		
47106 T	C		S	GAGCCGACGGGAGCCCGGGGCGGGGCTCTGTCTGCTGCT		
47106 T	T		S	GAGCCGACGGGAGCCTGGGGCGGGGCTCTGTCTGCTGCT		
				GCTGTGAGGGTGGAGACAAAGGCCACATAAGCCCAGGATGGCCAGGAGCCGACGGGAGCC[CT]GGGGCGGGGCTC		
47106 IS	[CT]			TGTCTGCTGCTTCCCTCTAAGCTGCCCATGGGGTGAGGACTCCTGGGG	ctg22fin4	22
47115 I			S	AGATACAGGTTAACTACATACAAATGCAGTCCCCAACT		
47115 P	G		S	ATGACGTGGCAGACCTGCCCAGATCAGAGAY		
47115 P	T		S	CGCGCCGAGGATGCCCAGATCAGAGAGY		
47115 T	G		S	TTTTCTCTCTGATCTGGGCAGGTTGGGGACTGCATTTGTATGTAGTTAACCTGTATCTTC		
47115 T	T		S	TTTTCTCTCTGATCTGGGCATGTTGGGGACTGCATTTGTATGTAGTTAACCTGTATCTTC		
				GAAATTTCATACAGCGAAGCTGCAAGTCCTGAACTGGATCTTTTCTCTCTGATCTGGGCA[GT]GTTGGGGACTGCATT		
47115 IS	[GT]			TGTATGTAGTTAACCTGTATCTTCAGAAAGATTCTCCCAAAGCCA		
47135 I			S	GGGTAAATCTCGGAGACGCTTTCATCTCCCTCAACT		
47135 P	T		S	CGCGCCGAGGATGACAGACCTGTGCTY		
47135 P	C		S	ATGACGTGGCAGACGTGACAGACCTGTGCTY		
47135 T	T		S	GAAAAGCACAGGTCTGTCATGTTGAGGGAGATGAAAGCGTCTCCGAGATTTACCCTG		
47135 T	C		S	GAAAAGCACAGGTCTGTCACGTTGAGGGAGATGAAAGCGTCTCCGAGATTTACCCTG		
				AATCTGATTCCAATCCCAGACACTGGCAAAGGACAGGTGCAGAAAAGCACAGGTCTGTCA[TC]GTTGAGGGAGATGAA		
47135 IS	[TC]			AGCGTCTCCGAGATTTACCCTGTATACCCCTCACATACTGTCCAG	ctg17207	19
47142 I			A	GGATAGCAAGGTCAACCAAGGGGATTTGATTATTAAGTAGGAATCTTA		
47142 P	C		A	ATGACGTGGCAGACCAGTCTTTCTTGCTTTTCGY		
47142 P	T		A	CGCGCCGAGGTAGTCTTTCTTGCTTTTCGGY		
47142 T	C		A	TAAACCGAAAAGCAAGAAAGACTGAAGATTCCTACTTAATAATCAAATCCCCTTGGTTGACCTTGCTATCCCC		
47142 T	T		A	TAAACCGAAAAGCAAGAAAGACTAAAGATTCCTACTTAATAATCAAATCCCCTTGGTTGACCTTGCTATCCCC		
				AAAGTTTCACGGGGGATAGCAAGGTCAACCAAGGGGATTTGATTATTAAGTAGGAATCTT[CT]AGTCTTTCTTGCTTTT		
47142 IS	[CT]			CGGTTTAGTATCTCCCTTAATTTGATGAGAGTGATTGTCTCCTC	ctg15842	19
47172 I			A	GCTGGCGGGGAGGGAGCCAA		
47172 P	C		A	ATGACGTGGCAGACCGTCCCGGTCAAGGY		
47172 P	T		A	CGCGCCGAGGTGTCCCGGTCAAGGY		
47172 T	C		A	TTCCCCTTGACCGGGACGTGGCTCCCTCCCCGCCAGCCT		
47172 T	T		A	TTCCCCTTGACCGGGACATGGCTCCCTCCCCGCCAGCCT		
				AAGGTCCCTGAATTCCATACCAGAGATAGCAAAGGAAGTAGGCTGGCGGGGAGGGAGCCA[CT]GTCCCGGTCAAGG		
47172 IS	[CT]			GGAAGGACCTATGGGCTGGTTCTAGTTCCTGCTGGTGGCACCACCCT	ctg15842	19
47254 I			S	TGCTTGGTCTTGACAGCTGTGCTATAACAACCTTGTT		
47254 P	T		S	CGCGCCGAGGATGACATTAATTAAGTTAGCAATCCY		
47254 P	C		S	ATGACGTGGCAGACGTGACATTAATTAAGTTAGCAATCCY		
47254 T	T		S	CATAGGATTGCTAACTTAATTAATGTCATACAAGGTTGTTATAGCACAGCTGTCAAGACCAAGCATT		
47254 T	C		S	CATAGGATTGCTAACTTAATTAATGTCACACAAGGTTGTTATAGCACAGCTGTCAAGACCAAGCATT		
				ACCCTGTTTGTCAACGAGGATGTATATTGGAACATAGGATTGCTAACTTAATTAATGTCA[TC]ACAAGGTTGTTATAGC		
47254 IS	[TC]			ACAGCTGTCAAGACCAAGCATTCCTGGCATTTTATGTTGATGTT	ctg19247	7
47300 I			A	GCCACAGCTGCATCCCCCCGTT		
47300 P	A		A	CGCGCCGAGGAGAGCCTGGCCCTY		
47300 P	G		A	ATGACGTGGCAGACGGAGCCTGGCCCY		
47300 T	A		A	GAGGAGGGCCAGGCTCTACGGGGGGATGCAGCTGTGGCTC		
47300 T	G		A	GAGGAGGGCCAGGCTCCACGGGGGGATGCAGCTGTGGCTC		
				GCGCAGCATTTGGCCTGCCTCGCGGGCCCCTTGTTCAGAGCCACAGCTGCATCCCCCCGT[AG]GAGCCTGGCCCTC		
47300 IS	[AG]			CTCGTCGCTTCTCTGCAGTAGCTCTTGGGCTGTGAACAGCAAGAGGA	MULTIPLE	18
47369 I			A	CCCATGTCCAGCCAGGGGAAGGGT		
47369 P	G		A	ATGACGTGGCAGACGCTAACCCAGAGGCGY		
47369 P	A		A	CGCGCCGAGGACTAACCCAGAGGCGY		
47369 T	G		A	CCACCGCCTCTGGGTTAGCCCCTTCCCCTGGCTGGACATGGGCT		
47369 T	A		A	CCACCGCCTCTGGGTTAGTCCCTTCCCCTGGCTGGACATGGGCT		
				GGGTCCAACTCCACCCCTTCAAATCCTGCAATTTCAGCCCATGTCCAGCCAGGGGAAGGG[GA]CTAACCCAGAGGCG		
47369 IS	[GA]			GTGGGCAAGAGGAGAGATGGACTTTGGAGGACTCCTCCCCAACTTC	ctg15907	6
47395 I			A	CCCCGCCGGCTTGCGCAGA		
47395 P	C		A	ATGACGTGGCAGACCGAGCTGGGTCCCY		
47395 P	T		A	CGCGCCGAGGTGAGCTGGGTCCCAY		
47395 T	C		A	GCCCTGGGACCCAGCTCGCTGCGCAAGCCGGCGGGGTG		
47395 T	T		A	GCCCTGGGACCCAGCTCACTGCGCAAGCCGGCGGGGTG		
				CCCAGGTGGGGGAGGAAGTGGGCCGCGCTTCGGGAACCCCCACCCCGCCGGCTTGCGCAG[CT]GAGCTGGGTCCC		
47395 IS	[CT]			AGGGCTGGAGGCACCTCATTAAACCGCCTGAAACGTGTGTAACTCTAG	ctg17129	17
47398 I			A	TGAGAACTGGGCTCCCTGGGTGCGA		
47398 P	C		A	ATGACGTGGCAGACCGGCGGGCCCY		

FIGURE 129D

47398 P	T	A	CGCGCCGAGGTGGCGGGCCCAY				
47398 T	C	A	TGCTTGGGCCCGCCGCGCACCCAGGGAGCCCAGTTCTCACT				
47398 T	T	A	TGCTTGGGCCCGCCACGCACCCAGGGAGCCCAGTTCTCACT				
47398 IS	[CT]		AGCATGCACCTGCGCCCTGACCGCTTTGGGGGCCAGTGAGAACTGGGCTCCCTGGGTGCG[CT]GGCGGGCCCAAG CAGGGAGGACATTGCAGATGCCCTGGCCAAGCAGCGTGGAAATCCTGT	ctg16335	2		
49181 I		S	GGACCATTGATCATTCTATTAGGGAACACTCAATCTAAATGCCTAAGCT				
49181 P	C	S	ATGACGTGGCAGACGCTCTATGTCATCCAGTCTY				
49181 P	T	S	CGCGCCGAGGACTCTATGTCATCCAGTCTCY				
49181 T	C	S	GCTGGAGACTGGATGACATAGAGCGCTTAGGCATTTAGATTGAGTGTTCCCTAATAGAATGATCAATGGTCCAT				
49181 T	T	S	GCTGGAGACTGGATGACATAGAGTGCTTAGGCATTTAGATTGAGTGTTCCCTAATAGAATGATCAATGGTCCAT				
49181 IS	[CT]		GGAAGAGCACTAAACAAGGACAGAAGTTTGATAGGTTGCTGGAGACTGGATGACATAGAG[CT]GCTTAGGCATTTAGA TTGAGTGTTCCCTAATAGAATGATCAATGGTCCATGGAAAAGGTA	ctg15907	6		
49183 I		S	GGTGAGCCTGGAGAACCGGAAGCCATTT				
49183 P	G	S	CGCGCCGAGGCAGGTTACAGAGGGTCAY				
49183 P	C	S	ATGACGTGGCAGACGAGGTTACAGAGGGTCAY				
49183 T	G	S	GCTGTGACCCTCTGTAACCTGAATGGCTTCCGGTTCTCCAGGCTCACCAC				
49183 T	C	S	GCTGTGACCCTCTGTAACCTCAATGGCTTCCGGTTCTCCAGGCTCACCAC				
49183 IS	[GC]		TAAGGTGGACGAAGTGGTGGCTCAAAGCCTGGTCTTCCCAGCTGTGACCCTCTGTAACCT[GC]AATGGCTTCCGGTT CTCCAGGCTCACCACCAATGACCTGTACCATGCTGGGGAGCTGCTG	ctg16537	20	ACCN1	
49191 I		A	GCAAATACAGAGGAAATAGCAGGGGTGAGGAAGAAAGAACT				
49191 P	A	A	CGCGCCGAGGACACAATCGACACCATTTY				
49191 P	G	A	ATGACGTGGCAGACGCACAATCGACACCATTY				
49191 T	A	A	TAAAAAATGGTGTCGATTGTGTGTTCTTTCTTCCTCACCCCTGCTATTTCCTCTGTATTTGCAG				
49191 T	G	A	TAAAAAATGGTGTCGATTGTGCGTTCTTTCTTCCTCACCCCTGCTATTTCCTCTGTATTTGCAG				
49191 IS	[AG]		ACGTGCGTGATACTAAAACTGCAAATACAGAGGAAATAGCAGGGGTGAGGAAGAAAGAAC[AG]CACAATCGACACCAT TTTTTAAACAAATGAACCAAACTCACAAGTTTTAAAAAATGAATG	ctg13915	12		
49201 I		S	TGGGGAGGGAGGAGGGGGCCC				
49201 P	C	S	ATGACGTGGCAGACGCAGCTGGAGCTCAY				
49201 P	A	S	CGCGCCGAGGTCAGCTGGAGCTCAGY				
49201 T	C	S	TCCTCTGAGCTCCAGCTGCGGCCCCCTCCTCCCTCCCCAAC				
49201 T	A	S	TCCTCTGAGCTCCAGCTGAGGCCCCCTCCTCCCTCCCCAAC				
49201 IS	[CA]		GCATTGGGCTCTTCCCACATCCCGCTTCCAACATCCGTGGGCTCCTCTGAGCTCCAGCTG[CA]GGCCCCCTCCTCCC TCCCCAACCCTCCCAGCCAAGCTGATGACCGCTTAAGTCTCACCTG	ctg15907	6		
49258 I		A	CAGCACTGAGCAGGCCCCGGAT				
49258 P	C	A	CGCGCCGAGGCAGGAGGGGCTGCY				
49258 P	G	A	ATGACGTGGCAGACGAGGAGGGGCTGCY				
49258 T	C	A	GGCTGCAGCCCCTCCTGTCCGGGGCCTGCTCAGTGCTGTC				
49258 T	G	A	GGCTGCAGCCCCTCCTCTCCGGGGCCTGCTCAGTGCTGTC				
49258 IS	[CG]		CGAGCACAGCACCTTCCCAGTCTCCTGTGCCCCAGCGGACAGCACTGAGCAGGCCCCGGA[CG]AGGAGGGGCTGCA GCCACACACTCTTCCCCACCTGCCCCCCAGCTCAGAGACTCGTGACC	ctg_na	NA	VAX2	
49283 I		A	CCTTGGACAGTGGTGTGGACTCAGTAACCCA				
49283 P	C	A	ATGACGTGGCAGACCGGTTCCTGCAGACAY				
49283 P	T	A	CGCGCCGAGGTGGTTCCTGCAGACAY				
49283 T	C	A	AGCCTGTCTGCAGGAACCGGGGTTACTGAGTCCACACCACTGTCCAAGGCA				
49283 T	T	A	AGCCTGTCTGCAGGAACCAGGGTTACTGAGTCCACACCACTGTCCAAGGCA				
49283 IS	[CT]		TCTGAGCACAGCCAGATTGCAGAGCCACTGCCTTGGACAGTGGTGTGGACTCAGTAACCC[CT]GGTTCCTGCAGACA GGCTCTTACTTCCAGCACGAGGTACTGCTCCGGGGCTGGGGCTTCC	ctg17450	X		
49288 I		A	GCGCGCGCGTGGGGCCT				
49288 P	G	A	ATGACGTGGCAGACGGGCACCACGGCY				
49288 P	C	A	CGCGCCGAGGCGGCACCACGGCY				
49288 T	G	A	GGGTGCCGTGGTGCCCGGCCCCACGCGCGCGCGG				
49288 T	C	A	GGGTGCCGTGGTGCCGGGCCCCACGCGCGCGCGG				
49288 IS	[GC]		TGTTAAAGCTGGGCGGCCAGGGACGCCCCCGACCCCTCAGCCCCGCGCGCGCGTGGGGCC[GC]GGCACCACGGCA CCCCGAGGTCGGCGTCCCCAAACGCTGGGCGGTCTGTTGGGATCAGAA	ctg17129	17		
49311 I		A	GGGCAGCGGGCCGACGGAT				
49311 P	G	A	ATGACGTGGCAGACGGGCTCCAGGCGY				
49311 P	A	A	CGCGCCGAGGAGGCTCCAGGCGY				
49311 T	G	A	CCACCGCCTGGAGCCCTCCGTCGGCCCGCTGCCCTC				
49311 T	A	A	CCACCGCCTGGAGCCTTCCGTCGGCCCGCTGCCCTC				
49311 IS	[GA]		AGGAGCGGAAATATCGGTCGAAGGAGAGAAACGACGTTCGGAGGGCAGCGGGCCGACGGA[GA]GGCTCCAGGCGG TGGGGAAGGGGGTGGGGTCCCTCCCGGCCCGCAGCGGCCCTGACCCTT	ctg14210	12		
49362 I		S	CACCAACCCGGCCCAGAGGTTTCTCTATT				
49362 P	T	S	CGCGCCGAGGATAGTGAGGAAACACTGGGY				
49362 P	C	S	ATGACGTGGCAGACGTAGTGAGGAAACACTGGY				
49362 T	T	S	CCTCCCCAGTGTTTCCTCACTATATAGAGAAACCTCTGGGCCGGGTTGGTGTG				
49362 T	C	S	CCTCCCCAGTGTTTCCTCACTACATAGAGAAACCTCTGGGCCGGGTTGGTGTG				
49362 IS	[TC]		GTGTCTGAAGGTGGATAATCATTTCAATCTCTTGACCACCTCCCCAGTGTTTCCTCACTA[TC]ATAGAGAAACCTCTGG GCCGGGTTGGTGTGTTTCTTGATTTTGAAAGTGGAAGTGTGAGT	ctg15907	6		
49413 I		A	CCTGCATTTCCCCCTCTGCTTACTAAAAGCCAC				
49413 P	T	A	CGCGCCGAGGTTGTCAAAGCCCAGTTCY				
49413 P	G	A	ATGACGTGGCAGACGTGTCAAAGCCCAGTTCY				
49413 T	T	A	ATTTGAACTGGGCTTTGACAATGGCTTTTAGTAAGCAGAGGGGGAAATGCAGGAT				
49413 T	G	A	ATTTGAACTGGGCTTTGACACTGGCTTTTAGTAAGCAGAGGGGGAAATGCAGGAT				
49413 IS	[TG]		TTCACATCTTACTCCCCACCTAGCATATCCTGCATTTCCCCCTCTGCTTACTAAAAGCCA[TG]TGTCAAAGCCCAGTTC AAATGATACCTCATACATTAAACCTATTTGGGTCACTCCAACAA	ctg15907	6		
49455 I		A	GGATGTCTTTACTGTCACATTAAATGTTTTGAGTGAATACATAATATCTGAAAATT				
49455 P	A	A	CGCGCCGAGGAGCCAAAGACCTAGCAY				
49455 P	G	A	ATGACGTGGCAGACGGCCAAAGACCTAGCAY				
49455 T	A	A	GCCCTGCTAGGTCTTTGGCTATTTTCAGATATTATGTATTCACTCAAAACATTTAATGTGACAGTAAAGACATCCGA				
49455 T	G	A	GCCCTGCTAGGTCTTTGGCCATTTTCAGATATTATGTATTCACTCAAAACATTTAATGTGACAGTAAAGACATCCGA				
49455 IS	[AG]		GGCTCGGATGTCTTTACTGTCACATTAAATGTTTTGAGTGAATACATAATATCTGAAAAT[AG]GCCAAAGACCTAGCAG GGCAAGCACCTGCCAAACACCCAGGATTACAAAAACAAAATTAT	ctg14391	11		
49523 I		S	GCATGGAGCTCCGCTATGCACATTGTTCTGTA				
49523 P	G	S	ATGACGTGGCAGACCCTTACCTATCCAGAGAAATGY				
49523 P	A	S	CGCGCCGAGGTCTTACCTATCCAGAGAAATGY				
49523 T	G	S	GCTGCATTTCTCTGGATAGGTAAGGACAGAACAATGTGCATAGCGGAGCTCCATGCTG				
49523 T	A	S	GCTGCATTTCTCTGGATAGGTAAGAACAGAACAATGTGCATAGCGGAGCTCCATGCTG				
49523 IS	[GA]		ACGTCCTGCTCACAACGGCATCGATTTTTCACCTGTGCTGCATTTCTCTGGATAGGTAAG[GA]ACAGAACAATGTGCA TAGCGGAGCTCCATGCTGGAGACATGACTTGATGGATATTGGGCA	ctg13516	6		
49652 I		S	GTGGAATCGGACAGATCTGTGGGAGGAAAGAAAAAGAC				
49652 P	C	S	ATGACGTGGCAGACGAACTTAGTTGGCCGTGY				
49652 P	A	S	CGCGCCGAGGTAACTTAGTTGGCCGTGY				
49652 T	C	S	GCCCCACGGCCAACTAAGTTCTCTTTTTCTTTCCTCCCACAGATCTGTCCGATTCCACAT				
49652 T	A	S	GCCCCACGGCCAACTAAGTTATCTTTTTCTTTCCTCCCACAGATCTGTCCGATTCCACAT				

FIGURE 129D

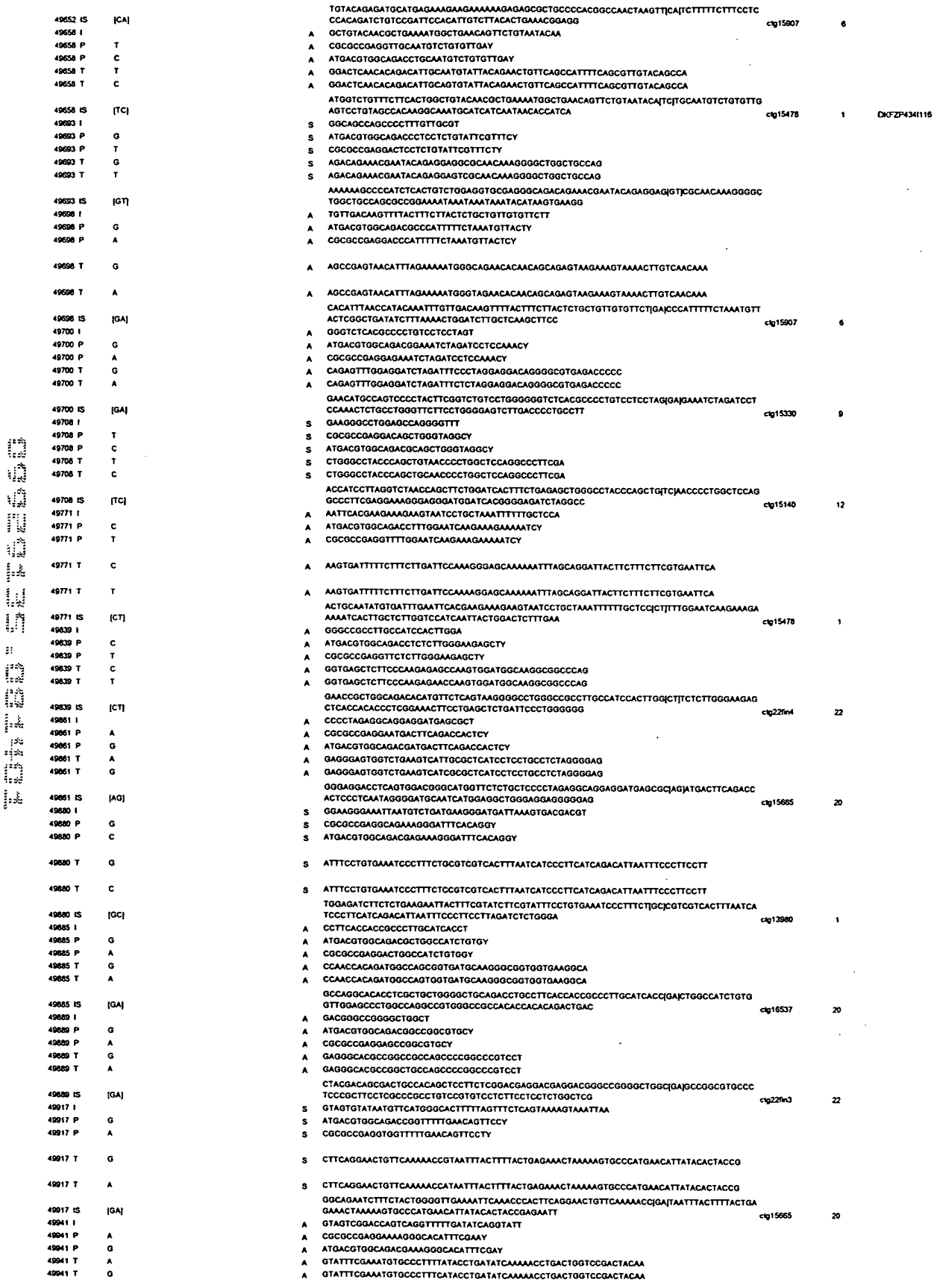

TGTACAGAGATGCATGAGAAAGAAGAAAAAAGAGAGCGCTGCCCCACGGCCAACTAAGTT[CA]TCTTTTTCTTTCCTC
49652 IS [CA] CCACAGATCTGTCCGATTCCACATTGTCTTACACTGAAACGGAGG ctg15907 6
49658 I A GCTGTACAACGCTGAAAATGGCTGAACAGTTCTGTAATACAA
49658 P T A CGCGCCGAGGTTGCAATGTCTGTGTTGAY
49658 P C A ATGACGTGGCAGACCTGCAATGTCTGTGTTGAY
49658 T T A GGACTCAACACAGACATTGCAATGTATTACAGAACTGTTCAGCCATTTTCAGCGTTGTACAGCCA
49658 T C A GGACTCAACACAGACATTGCAGTGTATTACAGAACTGTTCAGCCATTTTCAGCGTTGTACAGCCA
ATGGTCTGTTTCTTCACTGGCTGTACAACGCTGAAAATGGCTGAACAGTTCTGTAATACA[TC]TGCAATGTCTGTGTTG
49658 IS [TC] AGTCCTGTAGCCACAAGGCAAATGCATCATCAATAACACCATCA ctg15478 1 DKFZP434I116
49693 I S GGCAGCCAGCCCCTTTGTTGCGT
49693 P G S ATGACGTGGCAGACCCTCCTCTGTATTCGTTTCY
49693 P T S CGCGCCGAGGACTCCTCTGTATTCGTTTCTY
49693 T G S AGACAGAAACGAATACAGAGGAGGCGCAACAAAGGGGCTGGCTGCCAG
49693 T T S AGACAGAAACGAATACAGAGGAGTCGCAACAAAGGGGCTGGCTGCCAG
AAAAAAGCCCCATCTCACTGTCTGGAGGTGCGAGGGCAGACAGAAACGAATACAGAGGAG[GT]CGCAACAAAGGGGC
49693 IS [GT] TGGCTGCCAGCGCCGGAAAATAAATAAATAAATACATAAGTGAAGG
49698 I A TGTTGACAAGTTTTACTTTCTTACTCTGCTGTTGTGTTCTT
49698 P G A ATGACGTGGCAGACGCCCATTTTTCTAAATGTTACTY
49698 P A A CGCGCCGAGGACCCATTTTTCTAAATGTTACTCY
49698 T G A AGCCGAGTAACATTTAGAAAAATGGGCAGAACACAACAGCAGAGTAAGAAAGTAAAACTTGTCAACAAA
49698 T A A AGCCGAGTAACATTTAGAAAAATGGGTAGAACACAACAGCAGAGTAAGAAAGTAAAACTTGTCAACAAA
CACATTTAACCATACAAATTTGTTGACAAGTTTTACTTTCTTACTCTGCTGTTGTGTTCT[GA]CCCATTTTTCTAAATGTT
49698 IS [GA] ACTCGGCTGATATCTTTAAAACTGGATCTTGCTCAAGCTTCC ctg15907 6
49700 I A GGGTCTCACGCCCCTGTCCTCCTAGT
49700 P G A ATGACGTGGCAGACGGAAATCTAGATCCTCCAAACY
49700 P A A CGCGCCGAGGAGAAATCTAGATCCTCCAAACY
49700 T G A CAGAGTTTGGAGGATCTAGATTTCCCTAGGAGGACAGGGGCGTGAGACCCCC
49700 T A A CAGAGTTTGGAGGATCTAGATTTCTCTAGGAGGACAGGGGCGTGAGACCCCC
GAACATGCCAGTCCCCTACTTCGGTCTGTCCTGGGGGGTCTCACGCCCCTGTCCTCCTAG[GA]GAAATCTAGATCCT
49700 IS [GA] CCAAACTCTGCCTGGGTTCTTCCTGGGGAGTCTTGACCCCTGCCTT ctg15330 9
49708 I S GAAGGGCCTGGAGCCAGGGGTTT
49708 P T S CGCGCCGAGGACAGCTGGGTAGGCY
49708 P C S ATGACGTGGCAGACGCAGCTGGGTAGGCY
49708 T T S CTGGGCCTACCCAGCTGTAACCCCTGGCTCCAGGCCCTTCGA
49708 T C S CTGGGCCTACCCAGCTGCAACCCCTGGCTCCAGGCCCTTCGA
ACCATCCTTAGGTCTAACCAGCTTCTGGATCACTTTCTGAGAGCTGGGCCTACCCAGCTG[TC]AACCCCTGGCTCCAG
49708 IS [TC] GCCCTTCGAGGAAAGGGAGGGATGGATCACGGGGAGATCTAGGCC ctg15140 12
49771 I A AATTCACGAAGAAAGAAGTAATCCTGCTAAATTTTTTGCTCCA
49771 P C A ATGACGTGGCAGACCTTTGGAATCAAGAAAGAAAAATCY
49771 P T A CGCGCCGAGGTTTTGGAATCAAGAAAGAAAAATCY
49771 T C A AAGTGATTTTTCTTTCTTGATTCCAAAGGGAGCAAAAAATTTAGCAGGATTACTTCTTTCTTCGTGAATTCA
49771 T T A AAGTGATTTTTCTTTCTTGATTCCAAAAGGAGCAAAAAATTTAGCAGGATTACTTCTTTCTTCGTGAATTCA
ACTGCAATATGTGATTTGAATTCACGAAGAAAGAAGTAATCCTGCTAAATTTTTTGCTCC[CT]TTTGGAATCAAGAAAGA
49771 IS [CT] AAAATCACTTGCTCTTGGTCCATCAATTACTGGACTCTTTGAA ctg15478 1
49839 I A GGGCCGCCTTGCCATCCACTTGGA
49839 P C A ATGACGTGGCAGACCTCTCTTGGGAAGAGCTY
49839 P T A CGCGCCGAGGTTCTCTTGGGAAGAGCTY
49839 T C A GGTGAGCTCTTCCCAAGAGAGCCAAGTGGATGGCAAGGCGGCCCAG
49839 T T A GGTGAGCTCTTCCCAAGAGAACCAAGTGGATGGCAAGGCGGCCCAG
GAACCGCTGGCAGACACATGTTCTCAGTAAGGGGCCTGGGCCGCCTTGCCATCCACTTGG[CT]TCTCTTGGGAAGAG
49839 IS [CT] CTCACCACACCCTCGGAAACTTCCTGAGCTCTGATTCCCTGGGGGG ctg22fin4 22
49861 I A CCCCTAGAGGCAGGAGGATGAGCGCT
49861 P A A CGCGCCGAGGAATGACTTCAGACCACTCY
49861 P G A ATGACGTGGCAGACGATGACTTCAGACCACTCY
49861 T A A GAGGGAGTGGTCTGAAGTCATTGCGCTCATCCTCCTGCCTCTAGGGGAG
49861 T G A GAGGGAGTGGTCTGAAGTCATCGCGCTCATCCTCCTGCCTCTAGGGGAG
GGGAGGACCTCAGTGGACGGGCATGGTTCTCTGCTCCCCTAGAGGCAGGAGGATGAGCGC[AG]ATGACTTCAGACC
49861 IS [AG] ACTCCCTCAATAGGGGATGCAATCATGGAGGCTGGGAGGAGGGGGAG ctg15665 20
49880 I S GGAAGGGAAATTAATGTCTGATGAAGGGATGATTAAAGTGACGACGT
49880 P G S CGCGCCGAGGCAGAAAGGGATTTCACAGGY
49880 P C S ATGACGTGGCAGACGAGAAAGGGATTTCACAGGY
49880 T G S ATTTCCTGTGAAATCCCTTTCTGCGTCGTCACTTTAATCATCCCTTCATCAGACATTAATTTCCCTTCCTT
49880 T C S ATTTCCTGTGAAATCCCTTTCTCCGTCGTCACTTTAATCATCCCTTCATCAGACATTAATTTCCCTTCCTT
TGGAGATCTTCTCTGAAGAATTACTTTCGTATCTTCGTATTTCCTGTGAAATCCCTTTCT[GC]CGTCGTCACTTTAATCA
49880 IS [GC] TCCCTTCATCAGACATTAATTTCCCTTCCTTAGATCTCTGGGA ctg13980 1
49885 I A CCTTCACCACCGCCCTTGCATCACCT
49885 P G A ATGACGTGGCAGACGCTGGCCATCTGTGY
49885 P A A CGCGCCGAGGACTGGCCATCTGTGGY
49885 T G A CCAACCACAGATGGCCAGCGGTGATGCAAGGGCGGTGGTGAAGGCA
49885 T A A CCAACCACAGATGGCCAGTGGTGATGCAAGGGCGGTGGTGAAGGCA
GCCAGGCACACCTCGCTGCTGGGGCTGCAGACCTGCCTTCACCACCGCCCTTGCATCACC[GA]CTGGCCATCTGTG
49885 IS [GA] GTTGGAGCCCTGGCCAGGCCGTGGGCCGCCACACCACACAGACTGAC ctg16537 20
49889 I A GACGGGCCGGGGCTGGCT
49889 P G A ATGACGTGGCAGACGGCCGGCGTGCY
49889 P A A CGCGCCGAGGAGCCGGCGTGCY
49889 T G A GAGGGCACGCCGGCCGCCAGCCCCGGCCCGTCCT
49889 T A A GAGGGCACGCCGGCTGCCAGCCCCGGCCCGTCCT
CTACGACAGCGACTGCCACAGCTCCTTCTCGGACGAGGACGAGGACGGGCCGGGGCTGGC[GA]GCCGGCGTGCCC
49889 IS [GA] TCCCGCTTCCTCGCCCGCCTGTCCGTGTCCTCTTCCTCCTCTGGCTCG ctg22fin3 22
49917 I S GTAGTGTATAATGTTCATGGGCACTTTTTAGTTTCTCAGTAAAAGTAAATTAA
49917 P G S ATGACGTGGCAGACCGGTTTTTGAACAGTTCCY
49917 P A S CGCGCCGAGGTGGTTTTTGAACAGTTCCTY
49917 T G S CTTCAGGAACTGTTCAAAAACCGTAATTTACTTTTACTGAGAAACTAAAAAGTGCCCATGAACATTATACACTACCG
49917 T A S CTTCAGGAACTGTTCAAAAACCATAATTTACTTTTACTGAGAAACTAAAAAGTGCCCATGAACATTATACACTACCG
GGCAGAATCTTTCTACTGGGGTTGAAAATTCAAACCCACTTCAGGAACTGTTCAAAAACC[GA]TAATTTACTTTTACTGA
49917 IS [GA] GAAACTAAAAAGTGCCCATGAACATTATACACTACCGAGAATT ctg15665 20
49941 I A GTAGTCGGACCAGTCAGGTTTTTGATATCAGGTATT
49941 P A A CGCGCCGAGGAAAAGGGCACATTTCGAAY
49941 P G A ATGACGTGGCAGACGAAAGGGCACATTTCGAY
49941 T A A GTATTTCGAAATGTGCCCTTTTATACCTGATATCAAAAACCTGACTGGTCCGACTACAA
49941 T G A GTATTTCGAAATGTGCCCTTTCATACCTGATATCAAAAACCTGACTGGTCCGACTACAA

FIGURE 129D

				GATTCTTGGCTGTTTATCTAAAGTTGTAGTCGGACCAGTCAGGTTTTTGATATCAGGTAT[AG]AAAGGGCACATTTCGA			
49941	IS	[AG]		AATACGTAGTCGATCTTGTTTTAAATGTACACTTAAATTTGTTT		ctg14243	19
49945	I		S	TCTGGAGGCTCCAGTCGCATTCTCTTGAAAATGTTC			
49945	P	C	S	ATGACGTGGCAGACGGGTTGGGAAATCTTACAGY			
49945	P	A	S	CGCGCCGAGGTGGTTGGGAAATCTTACAGY			
49945	T	C	S	TCCACTGTAAGATTTCCCAACCCAACATTTTCAAGAGAATGCGACTGGAGCCTCCAGACT			
49945	T	A	S	TCCACTGTAAGATTTCCCAACCAAACATTTTCAAGAGAATGCGACTGGAGCCTCCAGACT			
				GATTCTGGGCATATCAGATGTCTTGTAGCACTTTCTACTCCACTGTAAGATTTCCCAACC[CA]AACATTTTCAAGAGAA			
49945	IS	[CA]		TGCGACTGGAGCCTCCAGACTGACAGCTAAGTGCGCATCTCAGT		ctg15590	7
49963	I		A	GACAGGCAACCATGGAGTTGTGCACCCA			
49963	P	C	A	ATGACGTGGCAGACCAGTCTTGCGGTGAGTY			
49963	P	T	A	CGCGCCGAGGTAGTCTTGCGGTGAGTY			
49963	T	C	A	GCCCACTCACCGCAAGACTGGGGTGCACAACTCCATGGTTGCCTGTCAG			
49963	T	T	A	GCCCACTCACCGCAAGACTAGGGTGCACAACTCCATGGTTGCCTGTCAG			
				GGACTCCCTGGGCCGAACTGTGGACCTGGGGCTGACAGGCAACCATGGAGTTGTGCACCC[CT]AGTCTTGCGGTGA			
49963	IS	[CT]		GTGGGCCTAACAGGCATACCCCCTATTTCAATGCCCTCCTGCCAGAT		ctg15144	12
49964	I		S	CACGTTATATTTAGGATAATGCTATGGCTCTTTTTTGGTCATTATGTATAATCC			
49964	P	T	S	CGCGCCGAGGATGAAATGCCATTTCCTCAY			
49964	P	A	S	ATGACGTGGCAGACTTGAAATGCCATTTCCTCAY			
49964	T	T	S	AAGTTGAGGAAATGGCATTTCATGATTATACATAATGACCAAAAAAGAGCCATAGCATTATCCTAAATATAACGTGCA			
49964	T	A	S	AAGTTGAGGAAATGGCATTTCAAGATTATACATAATGACCAAAAAAGAGCCATAGCATTATCCTAAATATAACGTGCA			
				TCTATGCATATCATTTCCTTCAGCTATGATATGGAGAAAAGTTGAGGAAATGGCATTTCA[TA]GATTATACATAATGACC			
49964	IS	[TA]		AAAAAAGAGCCATAGCATTATCCTAAATATAACGTGCAACAGA		ctg19262	19
50045	I		A	GATGAATTTCTCTAACGATAGTGCCATGGCCTGT			
50045	P	G	A	ATGACGTGGCAGACGAGTTAGCCTCTATTCCTGY			
50045	P	C	A	CGCGCCGAGGCAGTTAGCCTCTATTCCTGY			
50045	T	G	A	GATGCAGGAATAGAGGCTAACTCCAGGCCATGGCACTATCGTTAGAGAAATTCATCTG			
50045	T	C	A	GATGCAGGAATAGAGGCTAACTGCAGGCCATGGCACTATCGTTAGAGAAATTCATCTG			
				TGTAGATTATTATTCATTGAATAAACAGATGAATTTCTCTAACGATAGTGCCATGGCCTG[GC]AGTTAGCCTCTATTCCT			
50045	IS	[GC]		GCATCTGCAAGGTGGAAACAGGCAGGGTGAGGGGGGGATAGGC		ctg22fin4	22
50051	I		S	AGTGTGTCTTTTGTGAAACTGCATAAGGCTCACAATGTATGGT			
50051	P	C	S	ATGACGTGGCAGACGTTTTCCTCTTTAGCATTTTGAY			
50051	P	T	S	CGCGCCGAGGATTTTCCTCTTTAGCATTTTGAAY			
50051	T	C	S	GTACTTCAAAATGCTAAAGAGGAAAACCCATACATTGTGAGCCTTATGCAGTTTCACAAAAGACACACTAA			
50051	T	T	S	GTACTTCAAAATGCTAAAGAGGAAAATCCATACATTGTGAGCCTTATGCAGTTTCACAAAAGACACACTAA			
				TGGAGATGTCAAATGAGTCAGTGTCCAAGTTTGTGTACTTCAAAATGCTAAAGAGGAAAA[CT]CCATACATTGTGAGCC			
50051	IS	[CT]		TTATGCAGTTTCACAAAAGACACACTAAAACAAATTCTGAATCT		ctg15279	10
50052	I		A	GGAGAAGAGGACAGGGAGGAGGTGGGGT			
50052	P	G	A	ATGACGTGGCAGACGTGGGGGAAGGAGTCY			
50052	P	A	A	CGCGCCGAGGATGGGGGAAGGAGTCY			
50052	T	G	A	TTTAGACTCCTTCCCCCACCCCCACCTCCTCCCTGTCCTCTTCTCCCA			
50052	T	A	A	TTTAGACTCCTTCCCCCATCCCCACCTCCTCCCTGTCCTCTTCTCCCA			
				GAACACAGTGGATTGGGGGATGCAGGTAAGATGGGAGAAGAGGACAGGGAGGAGGTGGGG[GA]TGGGGGAAGGAG			
50052	IS	[GA]		TCTAAAGGGTGCTGGGGGACACACAGACAAGACTGCAGGAAGGAAAGA		MULTIPLE	MULTIPLE
50084	I		S	GGCCTTTTGTCAGCAGGCCGCACAT			
50084	P	G	S	ATGACGTGGCAGACCGCGCCGGACCY			
50084	P	T	S	CGCGCCGAGGAGCGCCGGACCY			
50084	T	G	S	ACCCGGTCCGGCGCGTGTGCGGCCTGCTGACAAAAGGCCGA			
50084	T	T	S	ACCCGGTCCGGCGCTTGTGCGGCCTGCTGACAAAAGGCCGA			
				GTCCCGTCTGCCGGGACTAGGCCGCGGCCAGGCCGGGCACAGCGGTACCCGGTCCGGCGC[GT]TGTGCGGCCTGC			
50084	IS	[GT]		TGACAAAAGGCCGAGCCCGCAGGGCCAATCCGCGCGCCACCCCGTAGC		ctg15540	4
50092	I		S	AGGTCCTCAGTCCTGCGCCCCTGA			
50092	P	G	S	ATGACGTGGCAGACCCCTTTTCCCGCAGAY			
50092	P	A	S	CGCGCCGAGGTCCTTTTCCCGCAGAY			
50092	T	G	S	GTACTCTGCGGGAAAAGGGCAGGGGCGCAGGACTGAGGACCTTG			
50092	T	A	S	GTACTCTGCGGGAAAAGGACAGGGGCGCAGGACTGAGGACCTTG			
				GGTGGAGAGGATCATGGTGGCCTGGACCGCCTGCAGCGTGGAGTACTCTGCGGGAAAAGG[GA]CAGGGGCGCAGG			
50092	IS	[GA]		ACTGAGGACCTTGGCCAGCCGGCACTGCGGGGTACACAGCGACCGCAG		ctg15064	7
50098	I		A	GGAAAATAGGAGCAGGATTTCCCCTGGGGAAAAGTTT			
50098	P	C	A	ATGACGTGGCAGACCTCCTGGGACATCTTCTY			
50098	P	A	A	CGCGCCGAGGATCCTGGGACATCTTCTGY			
50098	T	C	A	AGAGCAGAAGATGTCCCAGGAGAACTTTTCCCCAGGGGAAATCCTGCTCCTATTTTCCGC			
50098	T	A	A	AGAGCAGAAGATGTCCCAGGATAACTTTTCCCCAGGGGAAATCCTGCTCCTATTTTCCGC			
				TTGATGACCTCGAAGGTCACAGGCGGAAAATAGGAGCAGGATTTCCCCTGGGGAAAAGTT[CA]TCCTGGGACATCTT			
50098	IS	[CA]		CTGCTCTTCTGTACATTTCTAGATGCAAATAACTCCTTCACCAGGC		ctg22fin7	22
50138	I		S	CTGTGGAGCAGGCCTGATTGTCCTCCTGT			
50138	P	T	S	CGCGCCGAGGACCTTCTCTTCCTCTTCCY			
50138	P	C	S	ATGACGTGGCAGACGCCTTCTCTTCCTCTTCY			
50138	T	T	S	GCAGGGAAGAGGAAGAGAAGGTCAGGAGGACAATCAGGCCTGCTCCACAGGG			
50138	T	C	S	GCAGGGAAGAGGAAGAGAAGGCCAGGAGGACAATCAGGCCTGCTCCACAGGG			
				CCTGTGGTTGAAGGCAGGCCTAGAAAGGAGAGGGGGTAGGCAGGGAAGAGGAAGAGAAGGTC]CAGGAGGACAATC			
50138	IS	[TC]		AGGCCTGCTCCACAGGGGGATAGGAAGGCCCAAAAAAGGAACAGCCT		ctg18911	9
50167	I		S	AAACTGCTGCCTCAGATTTTTTCTTTTCCCCTC			
50167	P	A	S	CGCGCCGAGGTTGTAGCAAATATTCTGACAACY			
50167	P	C	S	ATGACGTGGCAGACGTGTAGCAAATATTCTGACAACY			
50167	T	A	S	TGTGGTTGTCAGAATATTTGCTACAAAGGGGAAAAGAAAAAATCTGAGGCAGCAGTTTCT			
50167	T	C	S	TGTGGTTGTCAGAATATTTGCTACACAGGGGAAAAGAAAAAATCTGAGGCAGCAGTTTCT			
				CTGTAGCCAGCCTCTCAATGCAAATGATAAAATTGTGTGGTTGTCAGAATATTTGCTACA[AC]AGGGGAAAAGAAAAAA			
50167	IS	[AC]		TCTGAGGCAGCAGTTTCTCTTAATGTGGTAATAGCCTAGTCATA		ctg17004	X
50199	I		S	GCGGATTGCAGATCCCACTCTGTGAGTAGGAAT			
50199	P	G	S	CGCGCCGAGGCCTTTGCCACGTGGY			
50199	P	C	S	ATGACGTGGCAGACGCTTTGCCACGTGGY			
50199	T	G	S	GGATCCACGTGGCAAAGGTTCCTACTCACAGAGTGGGATCTGCAATCCGCAG			
50199	T	C	S	GGATCCACGTGGCAAAGCTTCCTACTCACAGAGTGGGATCTGCAATCCGCAG			
				TTTCTGGCTTCCGGACAAATGCTTGTTTGCAGGAGGCCACAGAGGATCCACGTGGCAAAG[GC]TTCCTACTCACAGA			
50199	IS	[GC]		GTGGGATCTGCAATCCGCAGGCAGGGTCCTTCAGGAAGAAGCCGTG			
50202	I		S	GAAGCATGAAGACCTTGGTCCAATGACTCTTTT			
50202	P	C	S	ATGACGTGGCAGACGAAGTTGCTCAATTCCAGTY			
50202	P	T	S	CGCGCCGAGGAAAGTTGCTCAATTCCAGTY			
50202	T	C	S	GAACACTGGAATTGAGCAACTTCAAAGAGTCATTGGACCAAGGTCTTCATGCTTCAA			
50202	T	T	S	GAACACTGGAATTGAGCAACTTTAAAGAGTCATTGGACCAAGGTCTTCATGCTTCAA			
				TTACAGGCCAGTTGTTGACATTGTAGTATCCTCTCTTTGAACACTGGAATTGAGCAACTT[CT]AAAGAGTCATTGGACC			
50202	IS	[CT]		AAGGTCTTCATGCTTCAAATAAACCTGCATCAAAGAAACCTGGC		ctg15064	7
50203	I		S	CCATGGGAATGGACCTCCCATTTAGTGGCTTTT			
50203	P	T	S	CGCGCCGAGGAAAACTTCACCACAATGTAGTY			

FIGURE 129D

50203 P	G	S	ATGACGTGGCAGACCAAACTTCACCACAATGTAGY				
50203 T	T	S	AATGACTACATTGTGGTGAAGTTTTAAAGCCACTAAATGGGAGGTCCATTCCCATGGCA				
50203 T	G	S	AATGACTACATTGTGGTGAAGTTTGAAAGCCACTAAATGGGAGGTCCATTCCCATGGCA				
50203 IS	[TG]		AACCCTTTTCAGAGAAGATAAAGGAATTAGCTGTTTAATGACTACATTGTGGTGAAGTTT[TG]AAAGCCACTAAATGGG AGGTCCATTCCCATGGCACCATTGCTAGCAGCCCAAACACAGTC	ctg19247	7		
50204 I		S	GAGCAGGGAGGGTGCTGGGGGA				
50204 P	A	S	CGCGCCGAGGTGGGGCTTCTGGGY				
50204 P	G	S	ATGACGTGGCAGACCGGGGCTTCTGGGY				
50204 T	A	S	GCCCCCCAGAAGCCCCACCCCCAGCACCCTCCCTGCTCTG				
50204 T	G	S	GCCCCCCAGAAGCCCCGCCCCCAGCACCCTCCCTGCTCTG				
50204 IS	[AG]		TGGTGCCCCAGAAGCCCTGCCCCAGCGCCTCCCCATCTTTCCTGGCCCCCCAGAAGCCCC[AG]CCCCCAGCACCCT CCCTGCTCTGCCTTCCCCAGAGCACTTGCATTCTTACACCCTCAATC	ctg25099	7		
50226 I		S	CAGACAGTGTTGATCTGGCTTGGAGCCCAA				
50226 P	G	S	ATGACGTGGCAGACCAGTGGCAATCCTTGGY				
50226 P	A	S	CGCGCCGAGGTAGTGGCAATCCTTGGAY				
50226 T	G	S	CCACTCCAAGGATTGCCACTGTGGGCTCCAAGCCAGATCAACACTGTCTGTG				
50226 T	A	S	CCACTCCAAGGATTGCCACTATGGGCTCCAAGCCAGATCAACACTGTCTGTG				
50226 IS	[GA]		ACTTCTCAAGCACTAGGAAGAACTGAGATCTCTGCTGCCTCCACTCCAAGGATTGCCACT[GA]TGGGCTCCAAGCCAG ATCAACACTGTCTGTGTGCAGAGTTGTAGTCAGGCAGGAACAAGA	ctg15140	12		
50269 I		S	CCATCAAGCAGAGGAGACATGTTTCTCGGCTTCA				
50269 P	A	S	CGCGCCGAGGTCCTCTCTGGGACTTAATAGY				
50269 P	G	S	ATGACGTGGCAGACCCCTCTCTGGGACTTAATAY				
50269 T	A	S	GAGGCTATTAAGTCCCAGAGAGGAGAAGCCGAGAAACATGTCTCCTCTGCTTGATGGCA				
50269 T	G	S	GAGGCTATTAAGTCCCAGAGAGGGGAAGCCGAGAAACATGTCTCCTCTGCTTGATGGCA				
50269 IS	[AG]		AGACACAGCTTCATGAGTCAGTAAAGGCTAGCCTTCAGAGGCTATTAAGTCCCAGAGAGG[AG]GAAGCCGAGAAACAT GTCTCCTCTGCTTGATGGCAGTGTCATGTGCAGGATGTTTTCCTG	ctg15064	7		
50274 I		A	CTTCCACTTAGTCCTCCGTTCATAGGGCCCAT				
50274 P	A	A	CGCGCCGAGGATAGCTTCCTATCAAGCATCY				
50274 P	G	A	ATGACGTGGCAGACGTAGCTTCCTATCAAGCATCY				
50274 T	A	A	TTGAGATGCTTGATAGGAAGCTATTGGGCCCTATGAACGGAGGACTAAGTGGAAGGG				
50274 T	G	A	TTGAGATGCTTGATAGGAAGCTACTGGGCCCTATGAACGGAGGACTAAGTGGAAGGG				
50274 IS	[AG]		AAAATGGTTGCAACTTAAGTGATTTTCCCCTTCCACTTAGTCCTCCGTTCATAGGGCCCA[AG]TAGCTTCCTATCAAGC ATCTCAAAATCTTTCTGACACCTGGATTTCAAGATTTTCCATTA	ctg13740	5		
50278 I		S	GCTTAAAAAAGCAAAAAGAAAACATACTGGGGGATATTTTAATTGAGATTTTCT				
50278 P	C	S	ATGACGTGGCAGACGTCCTCCCTTAGCAAGGY				
50278 P	T	S	CGCGCCGAGGATCCTCCCTTAGCAAGGY				
50278 T	C	S	GTGTCCTTGCTAAGGGAGGACGAAAATCTCAATTAAAATATCCCCCAGTATGTTTTCTTTTTGCTTTTTTAAGCTG				
50278 T	T	S	GTGTCCTTGCTAAGGGAGGATGAAAATCTCAATTAAAATATCCCCCAGTATGTTTTCTTTTTGCTTTTTTAAGCTG				
50278 IS	[CT]		TGAGCCAAACAAGGGAATTATTATCAAGTTGAAGAAGAATGTGTCCTTGCTAAGGGAGGA[CT]GAAAATCTCAATTAAA ATATCCCCCAGTATGTTTTCTTTTTGCTTTTTTAAGCTGAGAGA				
50281 I		A	TGTCTAAGGACCCTAAATGAACGATAAACAGAGATGGTAGCTATGAGTATT				
50281 P	A	A	CGCGCCGAGGACAAAAGGTAAATCCACTTAATCY				
50281 P	G	A	ATGACGTGGCAGACGCAAAAGGTAAATCCACTTAATY				
50281 T	A	A	ATGTGATTAAGTGGATTTACCTTTTGTATACTCATAGCTACCATCTCTGTTTATCGTTCATTTAGGGTCCTTAGACAAG				
50281 T	G	A	ATGTGATTAAGTGGATTTACCTTTTGCATACTCATAGCTACCATCTCTGTTTATCGTTCATTTAGGGTCCTTAGACAAG				
50281 IS	[AG]		TCTTGCACCTTGTCTAAGGACCCTAAATGAACGATAAACAGAGATGGTAGCTATGAGTAT[AG]CAAAAGGTAAATCCAC TTAATCACATACAGAAGAGCAACAACAAACTGCTTACGACAGGT	ctg19262	19		
50287 I		S	GAAAAGGAGGGCATCCTAGATGGAACTCAGTTGGAT				
50287 P	C	S	ATGACGTGGCAGACGAGGAGGAATCAGGAGACY				
50287 P	T	S	CGCGCCGAGGAAGGAGGAATCAGGAGACY				
50287 T	C	S	GAGTGTCTCCTGATTCCTCCTCTCCAACTGAGTTCCATCTAGGATGCCCTCCTTTTCCA				
50287 T	T	S	GAGTGTCTCCTGATTCCTCCTTTCCAACTGAGTTCCATCTAGGATGCCCTCCTTTTCCA				
50287 IS	[CT]		GTGACTCTGCTTTGTTTGCTCATGCCACACATTGTCTGAGAGTGTCTCCTGATTCCTCCT[CT]TCCAACTGAGTTCCAT CTAGGATGCCCTCCTTTTCCATGAAACCCCTTTAGGACATCTAA	ctg_na	NA		
50301 I		A	GTTGCTAACAATTGGGCTGACTAGAGAAGCCTAAAGTTAGGT				
50301 P	A	A	CGCGCCGAGGATGAAAATAAAATGCCACACAY				
50301 P	G	A	ATGACGTGGCAGACGTGAAAATAAAATGCCACACAY				
50301 T	A	A	CCAGTGTGTGGCATTTTATTTTCATCCTAACTTTAGGCTTCTCTAGTCAGCCCAATTGTTAGCAACAA				
50301 T	G	A	CCAGTGTGTGGCATTTTATTTTCACCCTAACTTTAGGCTTCTCTAGTCAGCCCAATTGTTAGCAACAA				
50301 IS	[AG]		TCCATCTATCTAATTTCTTGTTGCTAACAATTGGGCTGACTAGAGAAGCCTAAAGTTAGG[AG]TGAAAATAAAATGCCA CACACTGGAATTAACTTTTCTGGGGTATAAGAATCCGTAAGCAA	ctg22tin3	22		
50302 I		S	CGCTGGCCAGGCCCAGATGCT				
50302 P	C	S	ATGACGTGGCAGACGGGAAACCGTGGGAY				
50302 P	T	S	CGCGCCGAGGAGGAAACCGTGGGAGY				
50302 T	C	S	GGTTCTCCCACGGTTTCCCGCATCTGGGCCTGGCCAGCGCC				
50302 T	T	S	GGTTCTCCCACGGTTTCCTGCATCTGGGCCTGGCCAGCGCC				
50302 IS	[CT]		GGGACGGGGGGCGGGTGGGAAGAGCGCCCAGGGCCCCCTCCGGGTTCTCCCACGGTTTCC[CT]GCATCTGGGCCT GGCCAGCGCCTTTGGGAGGAAGGGCCTAGGCGCGGTAGGGATGCCTGG	ctg19247	7		
50327 I		A	CTGTGTGCAGGTAATATGCAGGCTTGTGAAGAAAGTCT				
50327 P	G	A	ATGACGTGGCAGACGAAATACAAGCACAGGCAY				
50327 P	C	A	CGCGCCGAGGCAAATACAAGCACAGGCAY				
50327 T	G	A	CTCCTGCCTGTGCTTGTATTTCGACTTTCTTCACAAGCCTGCATATTACCTGCACACAGCT				
50327 T	C	A	CTCCTGCCTGTGCTTGTATTTGGACTTTCTTCACAAGCCTGCATATTACCTGCACACAGCT				
50327 IS	[GC]		GTGACCCTCAGGGGCACAGGCAGCTGTGTGCAGGTAATATGCAGGCTTGTGAAGAAAGTC[GC]AAATACAAGCACAG GCAGGAGTTCTTCAGAGCACGTGGGCTGCACAAGGGCTCTGTGTTC	ctg15972	16	LUZP3	
50332 I		S	TGGTTAGCCCATCATTGTATGGCTTGACCCTGAAAA				
50332 P	A	S	CGCGCCGAGGTGGACTTTTACAAAATTCCCTY				
50332 P	G	S	ATGACGTGGCAGACCGGACTTTTACAAAATTCCCY				
50332 T	A	S	ATAGAGGGAATTTTGTAAAAGTCCATTTCAGGGTCAAGCCATACAATGATGGGCTAACCATT				
50332 T	G	S	ATAGAGGGAATTTTGTAAAAGTCCGTTTCAGGGTCAAGCCATACAATGATGGGCTAACCATT				
50332 IS	[AG]		ATTACTTCCTCCAGATCCAGGTAGTATGAAAATAATATAGAGGGAATTTTGTAAAAGTC[AG]TTTCAGGGTCAAGCCA TACAATGATGGGCTAACCATTGCCTGTCTCTGAGCCACGTAGCA	ctg14932	16		
50345 I		S	GCTAGTGATGTCCTCTGAGGAAGTAGGAAGAGCATGTGT				
50345 P	C	S	ATGACGTGGCAGACGTCACTACTTACACTATCTGACY				
50345 P	T	S	CGCGCCGAGGATCACTACTTACACTATCTGACY				
50345 T	C	S	CGGGGTCAGATAGTGTAAGTAGTGACCACATGCTCTTCCTACTTCCTCAGAGGACATCACTAGCTG				
50345 T	T	S	CGGGGTCAGATAGTGTAAGTAGTGATCACATGCTCTTCCTACTTCCTCAGAGGACATCACTAGCTG				
50345 IS	[CT]		GGAAGTGATGGGTTCCTCCTGTCAATCAGAAGGCACGGGGTCAGATAGTGTAAGTAGTGA[CT]CACATGCTCTTCCTA CTTCCTCAGAGGACATCACTAGCTGCCTACCCATGATTTACACAA	ctg18037	7		
50348 I		S	AGGCCTGCCATTCCCCCGCCC				
50348 P	T	S	CGCGCCGAGGAGAGGGAGTTTCCTGTAAGY				
50348 P	A	S	ATGACGTGGCAGACTGAGGGAGTTTCCTGTAAY				
50348 T	T	S	CCCTCTTACAGGAAACTCCCTCTGGCGGGGGAATGGCAGGCCTAT				

FIGURE 129D

50348 T	A	S	CCCTCTTACAGGAAACTCCCTCAGGCGGGGGAATGGCAGGCCTAT				
50348 IS	[TA]		GGAGGGAACGTGGTGGTGTGGAATGGGCTGAGCTCTCTCCCTCTTACAGGAAACTCCCTC[TA]GGCGGGGGAATGG CAGGCCTATGAGGAAGTAAGCGTTGTCCTTTTCAGGGGAGTGACCTA	ctg15054	1		
50351 I		S	GGTGAACCACAGGGTAGCGGACGCTT				
50351 P	T	S	CGCGCCGAGGACCATCTGCCAGCCY				
50351 P	C	S	ATGACGTGGCAGACGCCATCTGCCAGCY				
50351 T	T	S	GGCTGGCTGGCAGATGGTAGCGTCCGCTACCCTGTGGTTCACCCG				
50351 T	C	S	GGCTGGCTGGCAGATGGCAGCGTCCGCTACCCTGTGGTTCACCCG				
50351 IS	[TC]		CTTTGCCGCCTGGAAGTTCCATGGCCTGGACCGCTGCGACGCTGGCTGGCTGGCAGATGG[TC]AGCGTCCGCTACC CTGTGGTTCACCCGCATCCTAACTGTGGGCCCCCAGAGCCTGGGGTC	ctg16166	14		
50353 I		S	CTGGAGCCCATTCCACTGTGGCTCACT				
50353 P	C	S	ATGACGTGGCAGACGGAGATGCTACCTGCAY				
50353 P	T	S	CGCGCCGAGGAGAGATGCTACCTGCACY				
50353 T	C	S	GGCGGTGCAGGTAGCATCTCCGTGAGCCACAGTGGAATGGGCTCCAGCT				
50353 T	T	S	GGCGGTGCAGGTAGCATCTCTGTGAGCCACAGTGGAATGGGCTCCAGCT				
50353 IS	[CT]		CAGCGGGAGCTACCAGAGCAGCAGTAGTGGGAGCAGGCTCGGCGGTGCAGGTAGCATCTC[CT]GTGAGCCACAGTG GAATGGGCTCCAGCTCTGGCAGCATCCAGACTTCTGGAGGAAGTGGC	ctg12325	11	HUMCYT2A	
50356 I		S	ACAATCCACCAACTGAGCCTTGGCCT				
50356 P	T	S	CGCGCCGAGGAAACTTGTCCCTTGTTAAAGAY				
50356 P	C	S	ATGACGTGGCAGACGAACTTGTCCCTTGTTAAAGAY				
50356 T	T	S	TACGTCTTTAACAAGGGACAAGTTTGGCCAAGGCTCAGTTGGTGGATTGTAT				
50356 T	C	S	TACGTCTTTAACAAGGGACAAGTTCGGCCAAGGCTCAGTTGGTGGATTGTAT				
50356 IS	[TC]		CCGACTTCAATACCCAGCTCTGTGGCTGGCTAGCCCTACGTCTTTAACAAGGGACAAGTT[TC]GGCCAAGGCTCAGTT GGTGGATTGTATATTATGTCTATAGGACCCAATTATACCTAAAGT	ctg5212	19		
50364 I		A	CACGATTGTGGGGCTAGCGTTGCCAA				
50364 P	T	A	CGCGCCGAGGTCTCTCCCTATTAAACTTCTCCY				
50364 P	C	A	ATGACGTGGCAGACCCTCTCCCTATTAAACTTCTCY				
50364 T	T	A	AGTAGGAGAAGTTTAATAGGGAGAGATGGCAACGCTAGCCCCACAATCGTGCC				
50364 T	C	A	AGTAGGAGAAGTTTAATAGGGAGAGGTGGCAACGCTAGCCCCACAATCGTGCC				
50364 IS	[TC]		GGTCAGTTTCTCCTATGAACATGGGTTGATATGGGCACGATTGTGGGGCTAGCGTTGCCA[TC]CTCTCCCTATTAAAC TTCTCCTACTAGAGCTACAATACTTTTCGGCCCTTGGATGGCTGT	ctg15907	6		
50370 I		S	GCACACCTGGAGAACACAGGGTAGGTAATTCACCT				
50370 P	T	S	CGCGCCGAGGAGGTGTTATTCTTTCACGAGY				
50370 P	C	S	ATGACGTGGCAGACGGGTGTTATTCTTTCACGAY				
50370 T	T	S	CCGGCTCGTGAAAGAATAACACCTGGTGAATTACCTACCCTGTGTTCTCCAGGTGTGCAC				
50370 T	C	S	CCGGCTCGTGAAAGAATAACACCCGGTGAATTACCTACCCTGTGTTCTCCAGGTGTGCAC				
50370 IS	[TC]		GATGTCATTCTTTGTATTTAGGCATGCCTGGGAATTACCGGCTCGTGAAAGAATAACACC[TC]GGTGAATTACCTACCC TGTGTTCTCCAGGTGTGCACGGGCGAAACCCCAGGGTACAACAA	ctg25099	7		
50397 I		A	CTTTTTCTGTACCTGTCATCACTGAACCAAAACATTCACT				
50397 P	G	A	ATGACGTGGCAGACGGTGATATTTTTATTTTGGATTTCTGY				
50397 P	A	A	CGCGCCGAGGAGTGATATTTTTATTTTGGATTTCTGAY				
50397 T	G	A	CCTATCAGAAATCCAAAATAAAAATATCACCGTGAATGTTTTGGTTCAGTGATGACAGGTACAGAAAAAGGA				
50397 T	A	A	CCTATCAGAAATCCAAAATAAAAATATCACTGTGAATGTTTTGGTTCAGTGATGACAGGTACAGAAAAAGGA				
50397 IS	[GA]		TTGAGAGTATACATTTAGTTCCTTTTTCTGTACCTGTCATCACTGAACCAAAACATTCAC[GA]GTGATATTTTTATTTTG GATTTCTGATAGGACTTATTTTCTTTTACTGTTTTTTTTTGTT	ctg12483	1		
50401 I		A	GGCAGATATTCCTCGGCTGGAGCATGTGTCA				
50401 P	C	A	ATGACGTGGCAGACCCAGAACTTACCAGGTCTY				
50401 P	T	A	CGCGCCGAGGTCAGAACTTACCAGGTCTGY				
50401 T	C	A	CAAGCAGACCTGGTAAGTTCTGGGACACATGCTCCAGCCGAGGAATATCTGCCTG				
50401 T	T	A	CAAGCAGACCTGGTAAGTTCTGAGACACATGCTCCAGCCGAGGAATATCTGCCTG				
50401 IS	[CT]		CCCTCGTGGATCGCAGTTCATTACTTCACAGGCAGATATTCCTCGGCTGGAGCATGTGTC[CT]CAGAACTTACCAGGT CTGCTTGCAGCCCAGGCCTGTGCATCAGTCCCCATCTGTTAAATG	ctg22fin6	22		
50419 I		S	GCCTTGCTGCCTTTCGGTAAAGGTTTCTCTAAAATGATTTTAAAACTATA				
50419 P	G	S	ATGACGTGGCAGACCGAGATGTATATGACAACTAAGTY				
50419 P	A	S	CGCGCCGAGGTGAGATGTATATGACAACTAAGTGY				
50419 T	G	S	AGATCACTTAGTTGTCATATACATCTCGATAGTTTTAAAATCATTTTAGAGAAACCTTTACCGAAAGGCAGCAAGGCAA				
50419 T	A	S	AGATCACTTAGTTGTCATATACATCTCAATAGTTTTAAAATCATTTTAGAGAAACCTTTACCGAAAGGCAGCAAGGCAA				
50419 IS	[GA]		TGGAAGGAAACGATATTGACCAAGTGACAAGTGAGATCACTTAGTTGTCATATACATCTC[GA]ATAGTTTTAAAATCATT TTAGAGAAACCTTTACCGAAAGGCAGCAAGGCAAGAATGCTTG	ctg12325	11		
50429 I		A	CAGAAGTTTTGGGAAAGGAAGTCTGTGCAAGTCTCTCAT				
50429 P	A	A	CGCGCCGAGGATCCTGTCTCCGTTGTCY				
50429 P	G	A	ATGACGTGGCAGACGTCCTGTCTCCGTTGTY				
50429 T	A	A	TTGTGACAACGGAGACAGGATTGAGAGACTTGCACAGACTTCCTTTCCCAAAACTTCTGCA				
50429 T	G	A	TTGTGACAACGGAGACAGGACTGAGAGACTTGCACAGACTTCCTTTCCCAAAACTTCTGCA				
50429 IS	[AG]		CTAATGGTAGAATTTTAGTCTGCAGAAGTTTTGGGAAAGGAAGTCTGTGCAAGTCTCTCA[AG]TCCTGTCTCCGTTGTC ACAAAAAAATGTTTACGTTGTTTATTTTCCAAGGCAAGGTAAAC	ctg15285	12		
50475 I		A	CCTCCTCCCTGCCTGCCTCCCCA				
50475 P	T	A	CGCGCCGAGGTCCTCACTCAATCTGTCTCY				
50475 P	C	A	ATGACGTGGCAGACCCCTCACTCAATCTGTCTY				
50475 T	T	A	AGTGGAGACAGATTGAGTGAGGAGGGGAGGCAGGCAGGGAGGAGGCC				
50475 T	C	A	AGTGGAGACAGATTGAGTGAGGGGGGAGGCAGGCAGGGAGGAGGCC				
50475 IS	[TC]		CATTTGGGTCCTCTGCACCTCAGCTCCCAGCATCTGGGCCTCCTCCCTGCCTGCCTCCCC[TC]CCTCACTCAATCTGT CTCCACTCAAGAGGCTGATGGGCAGGTCTCCCTGCTTCTTCAAAT				
50477 I		A	TCCTATTTGCAGACCTAGGGGAGGACAATGCCC				
50477 P	T	A	CGCGCCGAGGTGGGCTTTTTGCCTTCY				
50477 P	A	A	ATGACGTGGCAGACAGGGCTTTTTGCCTTCY				
50477 T	T	A	TTGGGAAGGCAAAAAGCCCAGGCATTGTCCTCCCCTAGGTCTGCAAATAGGACA				
50477 T	A	A	TTGGGAAGGCAAAAAGCCCTGGCATTGTCCTCCCCTAGGTCTGCAAATAGGACA				
50477 IS	[TA]		CCTTGAATGTGCTTGAAGCTGTTTTATGTCCTATTTGCAGACCTAGGGGAGGACAATGCC[TA]GGGCTTTTTGCCTTC CCAAGGTCACAGCCTGAAGACACTCAGAAAGATGTAGTTGGCTCA	ctg18709	X		
50491 I		A	CGCTGCTGGCGCCGTGGCA				
50491 P	C	A	ATGACGTGGCAGACCTCCTATGACTACCTGGTGY				
50491 P	T	A	CGCGCCGAGGTTCCTATGACTACCTGGTGY				
50491 T	C	A	CGATCACCAGGTAGTCATAGGAGGCCACGGCGCCAGCAGCGGG				
50491 T	T	A	CGATCACCAGGTAGTCATAGGAAGCCACGGCGCCAGCAGCGGG				
50491 IS	[CT]		CATGGCCTGCAGGCAGGAGCCGCAGCCGCAGGGCCCGCCGCCCGCTGCTGGCGCCGTGGC[CT]TCCTATGACTAC CTGGTGATCGGGGGCGGCTCGGGCGGGCTGGCCAGCGCGCGCAGGGCG	ctg16263	1	GSR	
50573 I		A	ACCTAAAAAAGCAAGGCTGACGCTTTTTTAGCTC				
50573 P	T	A	CGCGCCGAGGTCTTCCCTTGTTAAGTTTAATGGY				
50573 P	A	A	ATGACGTGGCAGACACTTCCCTTGTTAAGTTTAATGY				
50573 T	T	A	TCTCCCATTAAACTTAACAAGGGAAGAAGCTAAAAAAGCGTCAGCCTTGCTTTTTTAGGTTA				
50573 T	A	A	TCTCCCATTAAACTTAACAAGGGAAGTAGCTAAAAAAGCGTCAGCCTTGCTTTTTTAGGTTA				
50573 IS	[TA]		TTAGATTCTGCACTGCCTTAAGACTTAACCTAAAAAAGCAAGGCTGACGCTTTTTTAGCT[TA]CTTCCCTTGTTAAGTTT AATGGGAGAATATCCACAGAAAAAATGGAAACCTGTGTGTTTA	ctg13980	1		
50597 I		A	GCCCAGGAGGAGGCTGGGCCT				

FIGURE 129D

50597	P	G	A	ATGACGTGGCAGACGGGGAGAGGCACAGY			
50597	P	A	A	CGCGCCGAGGAGGGAGAGGCACAGY			
50597	T	G	A	GCCCCTGTGCCTCTCCCCGGCCCAGCCTCCTCCTGGGCAC			
50597	T	A	A	GCCCCTGTGCCTCTCCCTGGCCCAGCCTCCTCCTGGGCAC			
50597	IS	[GA]		CAGAAGGGGGAGACGGTGGGGGGCCAGCAGGGCGCCAGGTGCCCAGGAGGAGGCTGGGCC[GA]GGGAGAGGCAC AGGGGCCGGCGGGGGCCCTTGCCACTCCGTCCTGAGCAACCCGTTTTGT	ctg15907	6	
50639	I		A	AACGGGCAGGGAGAGGAAAGCACAGTT			
50639	P	A	A	CGCGCCGAGGAAAAGAGGTTCCAATGCTTY			
50639	P	G	A	ATGACGTGGCAGACGAAAGAGGTTCCAATGCTY			
50639	T	A	A	TTGCAAGCATTGGAACCTCTTTTACTGTGCTTTCCTCTCCCTGCCCGTTCC			
50639	T	G	A	TTGCAAGCATTGGAACCTCTTTCACTGTGCTTTCCTCTCCCTGCCCGTTCC			
50639	IS	[AG]		ATGCTAATGAGTCAAGTCCTTTTATGGGAAGAGGAACGGGCAGGGAGAGGAAAGCACAGT[AG]AAAGAGGTTCCAAT GCTTGCAACTCAGGAATGGAGAAAGAGAGGCTCACATCTGTTGGCC	ctg16105	5	
50668	I		S	CTGAGGTCCCTGCTGTTGCTGTGCCT			
50668	P	C	S	ATGACGTGGCAGACGTCTGACCTGTCCCCY			
50668	P	T	S	CGCGCCGAGGATCTGACCTGTCCCCTY			
50668	T	C	S	AGAGAGGGGACAGGTCAGACGGCACAGCAACAGCAGGGACCTCAGCG			
50668	T	T	S	AGAGAGGGGACAGGTCAGATGGCACAGCAACAGCAGGGACCTCAGCG			
50668	IS	[CT]		TTGGTGAAGTTGTTCCCGGGGAGCAGCTGGCTCTCTGTCAGAGAGAGGGGACAGGTCAGA[CT]GGCACAGCAACAG CAGGGACCTCAGCGCCCCTCAACTGAAAGGTGTGTGGTTTGGTATAG	ctg16105	5	
50696	I		A	AGCCCATGGTCAGCACTCAGTCAGTGCA			
50696	P	C	A	ATGACGTGGCAGACCGCTGGGAGTGAATTGY			
50696	P	T	A	CGCGCCGAGGTGCTGGGAGTGAATTGAY			
50696	T	C	A	GGTGTCAATTCACTCCCAGCGGCACTGACTGAGTGCTGACCATGGGCTGC			
50696	T	T	A	GGTGTCAATTCACTCCCAGCAGCACTGACTGAGTGCTGACCATGGGCTGC			
50696	IS	[CT]		GGGTTACATGAGGAACACACACATTGGGGGTGCAGCCCATGGTCAGCACTCAGTCAGTGC[CT]GCTGGGAGTGAATT GACACCTGAGGAAAGGACATGTGCGCTTTTTAGCCCCCAGCCCCCA	ctg13934	8	
50717	I		S	TGACTATTGGTCTTTGAGTATCTGCCTGCTTCCT			
50717	P	T	S	CGCGCCGAGGAGGTATAGAAACATCCATAAAAACY			
50717	P	C	S	ATGACGTGGCAGACGGGTATAGAAACATCCATAAAAACY			
50717	T	T	S	AGGTGTTTTTATGGATGTTTCTATACCTGGAAGCAGGCAGATACTCAAAGACCAATAGTCATA			
50717	T	C	S	AGGTGTTTTTATGGATGTTTCTATACCCGGAAGCAGGCAGATACTCAAAGACCAATAGTCATA			
50717	IS	[TC]		ATGTATGGCTACAAAGAATGAAATATGATTTGTAGGTGTTTTTATGGATGTTTCTATACC[TC]GGAAGCAGGCAGATAC TCAAAGACCAATAGTCATAGTCACTAAATTAGGTACTCATTTTA	ctg15665	20	
50721	I		A	CCGCTCTGGGGCAGCCCAGCT			
50721	P	G	A	ATGACGTGGCAGACGTGGCCAGTGTGGAY			
50721	P	A	A	CGCGCCGAGGATGGCCAGTGTGGAGY			
50721	T	G	A	CACCCTCCACACTGGCCACGCTGGGCTGCCCCAGAGCGGCC			
50721	T	A	A	CACCCTCCACACTGGCCATGCTGGGCTGCCCCAGAGCGGCC			
50721	IS	[GA]		TCTGAGTGAGGATGGGGCTAGCTCCCACCTTCCTTTCTGGCCGCTCTGGGGCAGCCCAGC[GA]TGGCCAGTGTGGA GGGTGGCACTCCTCTATGAGGGACCCCACGGAGCATGTGCCATCTCC			
50727	I		A	CGATGCTTGGTCTTCTCCAGCAGTCATGGAGT			
50727	P	C	A	CGCGCCGAGGCAGTCAGGGTTCACTGTY			
50727	P	G	A	ATGACGTGGCAGACGAGTCAGGGTTCACTGTY			
50727	T	C	A	TCTCACAGTGAACCCTGACTGCTCCATGACTGCTGGAGAAGACCAAGCATCGCT			
50727	T	G	A	TCTCACAGTGAACCCTGACTCCTCCATGACTGCTGGAGAAGACCAAGCATCGCT			
50727	IS	[CG]		AAGAGCAGAAAAAAGAGCATCCTAAATAGCGATGCTTGGTCTTCTCCAGCAGTCATGGAG[CG]AGTCAGGGTTCACTG TGAGAAGAGAGACACCATTTCCACAAATTGTCTAATGAGAATCTG			
50753	I		A	TCCCCAAGGTGGAATCAGTGCATAGAGTCCCT			
50753	P	G	A	ATGACGTGGCAGACGTGGCTGCCTATTTTCTY			
50753	P	A	A	CGCGCCGAGGATGGCTGCCTATTTTCTGY			
50753	T	G	A	GAACCAGAAAATAGGCAGCCACGGGACTCTATGCACTGATTCCACCTTGGGGAGC			
50753	T	A	A	GAACCAGAAAATAGGCAGCCATGGGACTCTATGCACTGATTCCACCTTGGGGAGC			
50753	IS	[GA]		TGGTCACAAAGGGGACATGTTCTGCCTGCTCCCCAAGGTGGAATCAGTGCATAGAGTCCC[GA]TGGCTGCCTATTTTC TGGTTCGGGTCATGAGAAAGTCACTTCCTCCCTTTGCAAAAGGGT	ctg_na	NA	
50767	I		A	GGGAGGGATGAGGGACTTCAGCAGGGT			
50767	P	G	A	ATGACGTGGCAGACGGAGATGTGGACCACGY			
50767	P	A	A	CGCGCCGAGGAGAGATGTGGACCACGY			
50767	T	G	A	GACTCGTGGTCCACATCTCCCCCTGCTGAAGTCCCTCATCCCTCCCAT			
50767	T	A	A	GACTCGTGGTCCACATCTCTCCCTGCTGAAGTCCCTCATCCCTCCCAT			
50767	IS	[GA]		GTAGGTACTGCTTCCTCCCTTCTCCTGCCCAGATGGGAGGGATGAGGGACTTCAGCAGGG[GA]GAGATGTGGACCAC GAGTCATCGGTGTTTGACTTGCTAGTCTAATGCCCCCCTATTTGTG	ctg_na	NA	
50788	I		A	TGGCTGCTCTGCTGGTGGTGCATGA			
50788	P	C	A	ATGACGTGGCAGACCAGCTGCCATGCTGY			
50788	P	T	A	CGCGCCGAGGTAGCTGCCATGCTGGY			
50788	T	C	A	GAGGCCAGCATGGCAGCTGCATGCACCACCAGCAGAGCAGCCACA			
50788	T	T	A	GAGGCCAGCATGGCAGCTACATGCACCACCAGCAGAGCAGCCACA			
50788	IS	[CT]		CATTGTCCAGCTCCAAGATGGTATCCCGTAAGGCTGTGGCTGCTCTGCTGGTGGTGCATG[CT]AGCTGCCATGCTGG CCTCCCAGACGGAAGCCTTCGTCCCCATCTTCACCTATGGCGAACT	ctg25114	1	
50801	I		A	GGGAGGCCCCGGCGGAAAAGCA			
50801	P	C	A	ATGACGTGGCAGACCCGCGGAGGAGACY			
50801	P	T	A	CGCGCCGAGGTCGCGGAGGAGACY			
50801	T	C	A	CTCCGTCTCCTCCGCGGGCTTTTCCGCCGGGGCCTCCCCG			
50801	T	T	A	CTCCGTCTCCTCCGCGAGCTTTTCCGCCGGGGCCTCCCCG			
50801	IS	[CT]		AGACCCCGGCAGAGGTGGTGGAGTCGGCCCCGGGTGCCGGGGAGGCCCCGGCGGAAAAGC[CT]CGCGGAGGAGA CGGAGGGCCCCTCCGACGGGGAGAGCGCGGCCGAGAAAAGGTCCTCAGA	ctg53	14	RREB1
50816	I		S	GGAAAGAGATGATAGACACAGTCACCACCATAGACGTCACT			
50816	P	C	S	ATGACGTGGCAGACGAGGTGTCTGTTCATTCCY			
50816	P	T	S	CGCGCCGAGGAAGGTGTCTGTTCATTCCY			
50816	T	C	S	TGCAGGAATGAACAGACACCTCGTGACGTCTATGGTGGTGACTGTGTCTATCATCTCTTTCCTG			
50816	T	T	S	TGCAGGAATGAACAGACACCTTGTGACGTCTATGGTGGTGACTGTGTCTATCATCTCTTTCCTG			
50816	IS	[CT]		GCTTCACAGCCTCTAGAAGACACGGGAAGTTCTGCCTGGTGCAGGAATGAACAGACACCT[CT]GTGACGTCTATGGT GGTGACTGTGTCTATCATCTCTTTCCTGAATTCACCCAAATGATCA	ctg53	14	
50820	I		A	GTTTGTACTGTAGTGTTAAATATAGTTACTTTAATTAGCAATATTTACATCAAACACTATA			
50820	P	C	A	ATGACGTGGCAGACCAAAGGAAATTTAGCAATTTCCY			
50820	P	T	A	CGCGCCGAGGTAAAGGAAATTTAGCAATTTCCATY			
50820	T	C	A	ACAAATGGAAATTGCTAAATTTCCTTTGATAGTGTTTGATGTAAATATTGCTAATTAAAGTAACTATATTTAACACTACAG TACAAAC			
50820	T	T	A	ACAAATGGAAATTGCTAAATTTCCTTTAATAGTGTTTGATGTAAATATTGCTAATTAAAGTAACTATATTTAACACTACAG TACAAAC			
50820	IS	[CT]		GTTTGTACTGTAGTGTTAAATATAGTTACTTTAATTAGCAATATTTACATCAAACACTA[CT]AAAGGAAATTTAGCAATT TCCATTTGTGCTATTGTTTTTGACATCACAATTTCACTTTGG	ctg16861	13	
50823	I		A	CCCACCAACTGTACCAGTACGTGCTGCTA			
50823	P	C	A	ATGACGTGGCAGACCACTGAGCCCAGCTY			
50823	P	T	A	CGCGCCGAGGTACTGAGCCCAGCTCY			
50823	T	C	A	TCAGGAGCTGGGCTCAGTGAGCAGCACGTACTGGTACAGTTGGTGGGTG			
50823	T	T	A	TCAGGAGCTGGGCTCAGTAAGCAGCACGTACTGGTACAGTTGGTGGGTG			
50823	IS	[CT]		TAATCAGAACAAACGTTGGCCATGATCACCCACCCACCAACTGTACCAGTACGTGCTGCT[CT]ACTGAGCCCAGCTCC TGAGTACCTGATCTTTTGATTCTCCTTGTCAGGGTCTTCTGCAGT	ctg17036	17	

FIGURE 129D

50839 I		A	GCGGCGGCGTGCTGCGGT			
50839 P	A	A	CGCGCCGAGGACTCTGTGGCGGGY			
50839 P	G	A	ATGACGTGGCAGACGCTCTGTGGCGGGY			
50839 T	A	A	CGCTCCCGCCACAGAGTCCGCAGCACGCCGCCGCCG			
50839 T	G	A	CGCTCCCGCCACAGAGCCCGCAGCACGCCGCCGCCG			
50839 IS	[AG]		CTGGCAAGACGCGCGCGTGGGTACTCACGTGACCTAGGCTGCGGCGGCGGCGTGCTGCGG[AG]CTCTGTGGCGGG AGCGAGGCCGACGGGCGGGGCCGCGCGGCCGCGTGACGCGAAGCGTTC			
50868 I		A	GAGCTGTGGCTGCTTGGGCACAGTT			
50868 P	C	A	CGCGCCGAGGCATTACTGTTTATTCCACTGTGY			
50868 P	G	A	ATGACGTGGCAGACGATTACTGTTTATTCCACTGTGY			
50868 T	C	A	GCAGCACAGTGGAATAAACAGTAATGACTGTGCCCAAGCAGCCACAGCTCCT			
50868 T	G	A	GCAGCACAGTGGAATAAACAGTAATCACTGTGCCCAAGCAGCCACAGCTCCT			
50868 IS	[CG]		AAAAACAGACATTTCACTTGCTGTCAGGTAGTGAAGGAGCTGTGGCTGCTTGGGCACAGT[CG]ATTACTGTTTATTCC ACTGTGCTGCACATCTTGAAGCTGTAAAGATATAAGAAGTCTCGC	ctg16306	4	
50873 I		S	CGGCAGGAACTCTCTTTAAATAGCTGGTGCACGT			
50873 P	T	S	CGCGCCGAGGAAAGGCTGTTCAGATATAAAATCY			
50873 P	C	S	ATGACGTGGCAGACGAAGGCTGTTCAGATATAAAATCY			
50873 T	T	S	TTCTGATTTTATATCTGAACAGCCTTTCGTGCACCAGCTATTTAAAGAGAGTTCCTGCCGCT			
50873 T	C	S	TTCTGATTTTATATCTGAACAGCCTTCCGTGCACCAGCTATTTAAAGAGAGTTCCTGCCGCT			
50873 IS	[TC]		GGGACTCATCTGAATAGCAGCTCAAGTTAGTTTGTTCTGATTTTATATCTGAACAGCCTT[TC]CGTGCACCAGCTATTT AAAGAGAGTTCCTGCCGCTATCAGATCGCCACCACCCTGCTGGG	ctg19247	7	
50885 I		S	TCTACAGGATGCTGGCATCAAGAATATCTAGAGGTGTCCT			
50885 P	C	S	ATGACGTGGCAGACGCTACACCTAATGGATACCY			
50885 P	T	S	CGCGCCGAGGACTACACCTAATGGATACCAY			
50885 T	C	S	TTCTTGGTATCCATTAGGTGTAGCGGACACCTCTAGATATTCTTGATGCCAGCATCCTGTAGACC			
50885 T	T	S	TTCTTGGTATCCATTAGGTGTAGTGGACACCTCTAGATATTCTTGATGCCAGCATCCTGTAGACC			
50885 IS	[CT]		TCGTAAAATTTCATCTAAAACAAAAAATTCACATCTGTTCTTGGTATCCATTAGGTGTAG[CT]GGACACCTCTAGATATT CTTGATGCCAGCATCCTGTAGACCCGCCATCTCCTTTCCCAGG	ctg14493	3	
50933 I		A	CTGCAGTCCTGAGCCTGTTGGGGGTAA			
50933 P	C	A	ATGACGTGGCAGACCACAGTAAAGGAGAGGGTY			
50933 P	T	A	CGCGCCGAGGTACAGTAAAGGAGAGGGTGY			
50933 T	C	A	TCACCACCCTCTCCTTTACTGTGTACCCCCAACAGGCTCAGGACTGCAGGT			
50933 T	T	A	TCACCACCCTCTCCTTTACTGTATACCCCCAACAGGCTCAGGACTGCAGGT			
50933 IS	[CT]		CGCTCAGTGATTCCTGGGCAGTGGAGATGTCTACCTGCAGTCCTGAGCCTGTTGGGGGTA[CT]ACAGTAAAGGAGAG GGTGGTGAGGAGGAAGGGTGGGGTGAGGCCTAGGAGGAAGAGAGGTA	ctg15972	16	
50936 I		S	CAGTGAGGCATGGCTGGAATGGCCAGA			
50936 P	G	S	ATGACGTGGCAGACCGCTCCTGGCAGTAY			
50936 P	A	S	CGCGCCGAGGTGCTCCTGGCAGTAGY			
50936 T	G	S	ACCGCTACTGCCAGGAGCGCTGGCCATTCCAGCCATGCCTCACTGGG			
50936 T	A	S	ACCGCTACTGCCAGGAGCACTGGCCATTCCAGCCATGCCTCACTGGG			
50936 IS	[GA]		ATGCATATGCTTCCCAAAGAAATTTTTACAAGAGAAACTTAAACCGCTACTGCCAGGAGC[GA]CTGGCCATTCCAGCCA TGCCTCACTGGGAGGCCCTGAGCATTCTAGCCGGCGGCTGCACA	ctg15972	16	
50937 I		A	ACCTCCAATACATTCTAGGATGCTCTGTAATTCACTAAGTGTTGATCTGAATAT			
50937 P	G	A	ATGACGTGGCAGACGCATCAACCCTTTATAGAAAGAY			
50937 P	A	A	CGCGCCGAGGACATCAACCCTTTATAGAAAGATY			
50937 T	G	A	CTAAATCTTTCTATAAAGGGTTGATGCTATTCAGATCAACACTTAGTGAATTACAGAGCATCCTAGAATGTATTGGAGG TTT			
50937 T	A	A	CTAAATCTTTCTATAAAGGGTTGATGTTATTCAGATCAACACTTAGTGAATTACAGAGCATCCTAGAATGTATTGGAGG TTT			
50937 IS	[GA]		TTGCAAAACCTCCAATACATTCTAGGATGCTCTGTAATTCACTAAGTGTTGATCTGAATA[GA]CATCAACCCTTTATAGA AAGATTTAGTACAGACTGAAAAATGATTCAAATTCAGTTCTAG	ctg15907	6	
50940 I		A	CCGCGGTGAACGTGCAATCTATCTCATAAATGCATCT			
50940 P	G	A	ATGACGTGGCAGACGCAGTGTTCCACAAATCAY			
50940 P	C	A	CGCGCCGAGGCCAGTGTTCCACAAATCAY			
50940 T	G	A	TGGGTGATTTGTGGAACACTGCGATGCATTTATGAGATAGATTGCACGTTCACCGCGGCG			
50940 T	C	A	TGGGTGATTTGTGGAACACTGGGATGCATTTATGAGATAGATTGCACGTTCACCGCGGCG			
50940 IS	[GC]		AACCCGATCTGGTTTCTTTGAGCGCCGCGGTGAACGTGCAATCTATCTCATAAATGCATC[GC]CAGTGTTCCACAAAT CACCCACGTTCATCCCTTGAGACGTCTTTAACTCGGGGCTTAGAG	ctg15907	6	
50942 I		A	GGAAATGGGCAGGTGGGTGGGTCTATGTT			
50942 P	A	A	CGCGCCGAGGAAGCTGGCTTTAGACTTCY			
50942 P	G	A	ATGACGTGGCAGACGAGCTGGCTTTAGACTTCY			
50942 T	A	A	GATTGAAGTCTAAAGCCAGCTTACATAGACCCACCCACCTGCCCATTTCCTG			
50942 T	G	A	GATTGAAGTCTAAAGCCAGCTCACATAGACCCACCCACCTGCCCATTTCCTG			
50942 IS	[AG]		TGGTGGTGGCTGGGACACAGGAGGCCACTGCAGGAAATGGGCAGGTGGGTGGGTCTATGT[AG]AGCTGGCTTTAGA CTTCAATCCACAAAGCATTTGCAGCTCAACTACTCAGCGTCTTATCTT	ctg15907	6	
50966 I		S	AGTAGATCAAACCAAGCCTCCTGGAGACCCGA			
50966 P	G	S	ATGACGTGGCAGACCTTAGGAGTGGATGGGCY			
50966 P	A	S	CGCGCCGAGGTTTAGGAGTGGATGGGCY			
50966 T	G	S	AGGGGCCCATCCACTCCTAAGCGGGTCTCCAGGAGGCTTGGTTTGATCTACTAG			
50966 T	A	S	AGGGGCCCATCCACTCCTAAACGGGTCTCCAGGAGGCTTGGTTTGATCTACTAG			
50966 IS	[GA]		AGATACAGATGTGATCTCAGATACGTGAAGCTGCATACAGAGGGGCCCATCCACTCCTAA[GA]CGGGTCTCCAGGAG GCTTGGTTTGATCTACTAGATTTGGTGCCTCTTAAAGGGAAGCAAT	ctg15907	6	
50971 I		S	TGGTAACATCAAGACATATCACCAGAAAGAGGGAAGCCTTA			
50971 P	A	S	CGCGCCGAGGTCTCCAGAAATTAAATCCTGTGY			
50971 P	G	S	ATGACGTGGCAGACCCTCCAGAAATTAAATCCTGTY			
50971 T	A	S	TCCCCACAGGATTTAATTTCTGGAGAAAGGCTTCCCTCTTTCTGGTGATATGTCTTGATGTTACCAAA			
50971 T	G	S	TCCCCACAGGATTTAATTTCTGGAGGAAGGCTTCCCTCTTTCTGGTGATATGTCTTGATGTTACCAAA			
50971 IS	[AG]		TCAAGCAGTGATGTTTAATTATATTTTTCACATTTTCCCCACAGGATTTAATTTCTGGAG[AG]AAGGCTTCCCTCTTTCT GGTGATATGTCTTGATGTTACCAAACCATTTCCTATATTTAAT	ctg15907	6	
50977 I		S	CCCACAGCCTGGCTGCAGCCACT			
50977 P	C	S	ATGACGTGGCAGACGCTCACTCTGATAAGGACY			
50977 P	T	S	CGCGCCGAGGACTCACTCTGATAAGGACGY			
50977 T	C	S	ACGTCGTCCTTATCAGAGTGAGCGTGGCTGCAGCCAGGCTGTGGGTG			
50977 T	T	S	ACGTCGTCCTTATCAGAGTGAGTGTGGCTGCAGCCAGGCTGTGGGTG			
50977 IS	[CT]		CATTGGCACCGGCACGGATGTGGCCATCGAGGCAGCCGACGTCGTCCTTATCAGAGTGAG[CT]GTGGCTGCAGCCA GGCTGTGGGTGCTGGGAGGGCAATGGGCAGACCCCTTCCTCACTGTG	ctg13446	1	
50985 I		A	CCCACCATCCTCTCTGCTCTGGCAAGGT			
50985 P	C	A	CGCGCCGAGGCAGGCGAAGACCGGY			
50985 P	G	A	ATGACGTGGCAGACGAGGCGAAGACCGGY			
50985 T	C	A	GGCTCCGGTCTTCGCCTGCCTTGCCAGAGCAGAGAGGATGGTGGGGG			
50985 T	G	A	GGCTCCGGTCTTCGCCTCCCTTGCCAGAGCAGAGAGGATGGTGGGGG			
50985 IS	[CG]		CCTCCCCGCCGGTGCCCCGCCCACAGCACGGCCCCCACCATCCTCTCTGCTCTGGCAAGG[CG]AGGCGAAGACCGG AGCCTTATCTCCGGACTCCCCCACCCCTAATCTCCCGCCGCGCTGCT	ctg13446	1	
51003 I		A	GGCTGTGCTCGCTCTCAGTGGCATGT			
51003 P	G	A	ATGACGTGGCAGACGTGGCCTTGCCAGAY			
51003 P	A	A	CGCGCCGAGGATGGCCTTGCCAGAY			
51003 T	G	A	AGACTCTGGCAAGGCCACCATGCCACTGAGAGCGAGCACAGCCTC			

FIGURE 129D

51003	T	A	A	AGACTCTGGCAAGGCCATCATGCCACTGAGAGCGAGCACAGCCTC			
51003	IS	[GA]		TGGGGACGCGGGGGAGCCCAGGTCTGCTGGGGAGAGGCTGTGCTCGCTCTCAGTGGCATG[GA]TGGCCTTGCCAG AGTCTGGACTCACCAACACTCTGCAGTGCTAGGCTCCCAACCACATCT	ctg13414	X	NAB1
51019	I		S	TGGTCTCTGAGCACCGCCCCTTGTA			
51019	P	A	S	CGCGCCGAGGTGACTCCCCAAGAATTGAY			
51019	P	G	S	ATGACGTGGCAGACCGACTCCCCAAGAATTGY			
51019	T	A	S	TCGTTCAATTCTTGGGGAGTCAACAAGGGGCGGTGCTCAGAGACCAAC			
51019	T	G	S	TCGTTCAATTCTTGGGGAGTCGACAAGGGGCGGTGCTCAGAGACCAAC			
51019	IS	[AG]		TCCCGGAGTCTTTCCAGCAAATCTGAAGCTTCGTTCCTCTCGTTCAATTCTTGGGGAGTC[AG]ACAAGGGGCGGTGCT CAGAGACCAACTGGCAGGCCCCCTCCTTGTCCGTTCCCTCCCCCA	ctg13414	X	
51030	I		S	CTGTCGTTGTTCTTGGGGTGGCCACGA			
51030	P	G	S	ATGACGTGGCAGACCAATCTGCAGAAAGCTTTCY			
51030	P	A	S	CGCGCCGAGGTAATCTGCAGAAAGCTTTCTY			
51030	T	G	S	GAAGAGAAAGCTTTCTGCAGATTGCGTGGCCACCCCAAGAACAACGACAGTC			
51030	T	A	S	GAAGAGAAAGCTTTCTGCAGATTACGTGGCCACCCCAAGAACAACGACAGTC			
51030	IS	[GA]		CCAGGTTGAGCCTCTCCCTGGCAAAGGTTTGGACTGAGAAGAGAAAGCTTTCTGCAGATT[GA]CGTGGCCACCCCAA GAACAACGACAGTCTATAGCTTGGGATACTGGTCTTTCTCCACTGC	ctg13414	X	
51038	I		A	CAGAGCTCCAGAGCTCACACTCTGCTCTCAT			
51038	P	G	A	ATGACGTGGCAGACGAACTAGATTAAGCAGCGAGY			
51038	P	A	A	CGCGCCGAGGAAACTAGATTAAGCAGCGAGY			
51038	T	G	A	CCTTCTCGCTGCTTAATCTAGTTCTGAGAGCAGAGTGTGAGCTCTGGAGCTCTGAG			
51038	T	A	A	CCTTCTCGCTGCTTAATCTAGTTTTGAGAGCAGAGTGTGAGCTCTGGAGCTCTGAG			
51038	IS	[GA]		CACAGGCTGAGTCACACGCTTCACATGGCTCAGAGCTCCAGAGCTCACACTCTGCTCTCA[GA]AACTAGATTAAGCAG CGAGAAGGTGTTTCAGGTTTTTCCAACCCTATATGCTACAACTCC	ctg14493	3	
51040	I		S	CCCAGGCAGACAAACCTCATGGTAGGATTCTGAC			
51040	P	A	S	CGCGCCGAGGTTGGTCTGGCCAGTGY			
51040	P	T	S	ATGACGTGGCAGACATGGTCTGGCCAGTGY			
51040	T	A	S	ATAACACTGGCCAGACCAATCAGAATCCTACCATGAGGTTTGTCTGCCTGGGCT			
51040	T	T	S	ATAACACTGGCCAGACCATTCAGAATCCTACCATGAGGTTTGTCTGCCTGGGCT			
51040	IS	[AT]		TCCTCTAGCCCTGGCCACAGTGACCGGGCCTCATGTGGACACATAACACTGGCCAGACCA[AT]TCAGAATCCTACCAT GAGGTTTGTCTGCCTGGGCTGATTGGATAGAGCTCCCTTTCTTCC	ctg13921	8	
51047	I		A	CATGGCAGTGGCTCTCGTTATGTGAACTGAGAAAAAGAT			
51047	P	G	A	ATGACGTGGCAGACGAGTGCTAACTTCTAGGGTY			
51047	P	C	A	CGCGCCGAGGCAGTGCTAACTTCTAGGGTY			
51047	T	G	A	AAAGACCCTAGAAGTTAGCACTCTCTTTTTCTCAGTTCACATAACGAGAGCCACTGCCATGGC			
51047	T	C	A	AAAGACCCTAGAAGTTAGCACTGTCTTTTTCTCAGTTCACATAACGAGAGCCACTGCCATGGC			
51047	IS	[GC]		GGCCTTTGCATTCCGTCTATGCCATGGCAGTGGCTCTCGTTATGTGAACTGAGAAAAAGA[GC]AGTGCTAACTTCTAG GGTCTTTGCCCTGTCTCTCCTCTCTTCTCAAAGCCTGGCAGCAGC	ctg15907	6	
51059	I		A	TCCAGACCTAATGTGGAATAGCTAAACCCAGGGACTA			
51059	P	T	A	CGCGCCGAGGTTGTGGTTTGAGCATGAAY			
51059	P	C	A	ATGACGTGGCAGACCTGTGGTTTGAGCATGAAY			
51059	T	T	A	TATTTTCATGCTCAAACCACAAAGTCCCTGGGTTTAGCTATTCCACATTAGGTCTGGAAG			
51059	T	C	A	TATTTTCATGCTCAAACCACAGAGTCCCTGGGTTTAGCTATTCCACATTAGGTCTGGAAG			
51059	IS	[TC]		ATCTGCTATAGAGTCCCAAAGCCTTCCAGACCTAATGTGGAATAGCTAAACCCAGGGACT[TC]TGTGGTTTGAGCATG AAAATACTGGTTAACTTTCAGTTATTCGGAAAGCATGTTCCTAGA	ctg15907	6	
51069	I		A	GAGAGGCTGGAGCAGGGTCACCCAA			
51069	P	T	A	CGCGCCGAGGTGGACAGAGACCAAGAGY			
51069	P	C	A	ATGACGTGGCAGACCGGACAGAGACCAAGAY			
51069	T	T	A	ACCTCTCTTGGTCTCTGTCCATGGGTGACCCTGCTCCAGCCTCTCAG			
51069	T	C	A	ACCTCTCTTGGTCTCTGTCCGTGGGTGACCCTGCTCCAGCCTCTCAG			
51069	IS	[TC]		AGCAGAGCCAGGGCACCTGCAGGACCAGCATCATCTGAGAGGCTGGAGCAGGGTCACCCA[TC]GGACAGAGACCAA GAGAGGTCCTGCGAAGGCTGGGCACTGCTGTGGGACAGCCAGTCTTC	ctg15907	6	SCTR
51113	I		A	GCAGTTTCCCTGACACCACCGCCAT			
51113	P	A	A	CGCGCCGAGGACCTCCAGCCCAAGY			
51113	P	G	A	ATGACGTGGCAGACGCCTCCAGCCCAAY			
51113	T	A	A	TGTGCTTGGGCTGGAGGTTGGCGGTGGTGTCAGGGAAACTGCAG			
51113	T	G	A	TGTGCTTGGGCTGGAGGCTGGCGGTGGTGTCAGGGAAACTGCAG			
51113	IS	[AG]		GGACGTCCCCACCCACCCCGGGTAGAAGGACCATCTGCAGTTTCCCTGACACCACCGCCA[AG]CCTCCAGCCCAAGC ACAAGGGACCGCATTTTTTTTTTAGGAAGCCAGAGGAAAGACTGGA	ctg15907	6	
51122	I		S	GTCTGCTTCCGCAGACACAGCCTGAGTA			
51122	P	G	S	ATGACGTGGCAGACCTGTTAAAGTTGGTGACAATCY			
51122	P	A	S	CGCGCCGAGGTTGTTAAAGTTGGTGACAATCY			
51122	T	G	S	GGTGGATTGTCACCAACTTTAACAGACTCAGGCTGTGTCTGCGGAAGCAGACTG			
51122	T	A	S	GGTGGATTGTCACCAACTTTAACAAACTCAGGCTGTGTCTGCGGAAGCAGACTG			
51122	IS	[GA]		CAGAGGCCTCATTAATAGCACACATTGAGAGACTGAGGTGGATTGTCACCAACTTTAACA[GA]ACTCAGGCTGTGTCT GCGGAAGCAGACTGACGCAGGGATGTCTTCTGTAACCCAACATGG	ctg15907	6	
51130	I		S	CACGGCCACCCGGCGCAACA			
51130	P	A	S	CGCGCCGAGGTGACTTTCTGCTCTCTGAY			
51130	P	G	S	ATGACGTGGCAGACCGACTTTCTGCTCTCTGY			
51130	T	A	S	AAAGTCAGAGAGCAGAAAGTCAGTTGCGCCGGGTGGCCGTGAT			
51130	T	G	S	AAAGTCAGAGAGCAGAAAGTCGGTTGCGCCGGGTGGCCGTGAT			
51130	IS	[AG]		CAAACATCTCCAAGGTTCAGGCTAGAGTGAGAGCCCACAAAAGTCAGAGAGCAGAAAGTC[AG]GTTGCGCCGGGTGG CCGTGATTTCTCCGACAGGGTTAGAGCAGCTGGAGGTCAGTGTGAT	ctg14747	2	
51132	I		S	CCTGCAGCAAGATGGCGGCGGTT			
51132	P	C	S	ATGACGTGGCAGACGTCAATGTCAGTGGTACTGY			
51132	P	G	S	CGCGCCGAGGCTCAATGTCAGTGGTACTGY			
51132	T	C	S	GCCTCAGTACCACTGACATTGACACCGCCGCCATCTTGCTGCAGGCA			
51132	T	G	S	GCCTCAGTACCACTGACATTGAGACCGCCGCCATCTTGCTGCAGGCA			
51132	IS	[CG]		GGCAGCTACAGCCACTGCCCTTCTCCGCCACAACGTCTGCCTCAGTACCACTGACATTGA[CG]ACCGCCGCCATCTT GCTGCAGGCAAACGCCAGGATGAAGGACGGATCACCGCAAGGGAC	ctg17042	11	
51146	I		A	ACAGGAAAGGGCCAAGGATCTCTCAGTGAATATAAAACTTACATATATCAAAGT			
51146	P	C	A	CGCGCCGAGGCACCCAGAGGCTTTTTAATY			
51146	P	G	A	ATGACGTGGCAGACGACCCAGAGGCTTTTTAATY			
51146	T	C	A	TCTCATTAAAAAGCCTCTGGGTGCTTTGATATATGTAAGTTTTATATTCACTGAGAGATCCTTGGCCCTTTCCTGTGG			
51146	T	G	A	TCTCATTAAAAAGCCTCTGGGTCCTTTGATATATGTAAGTTTTATATTCACTGAGAGATCCTTGGCCCTTTCCTGTGG			
51146	IS	[CG]		CGCAGCCACAGGAAAGGGCCAAGGATCTCTCAGTGAATATAAAACTTACATATATCAAAG[CG]ACCCAGAGGCTTTTT AATGAGAATGACCTCTGGTTAAAATTAGAGTGAAAGGGAAATAAA	ctg16920	19	
51159	I		S	GCTGTGGGGGCAATTTTCTGCAGGAAGGT			
51159	P	C	S	ATGACGTGGCAGACGAGGGAAGGCAGACCY			
51159	P	T	S	CGCGCCGAGGAAGGGAAGGCAGACCY			
51159	T	C	S	GAGAGGTCTGCCTTCCCTCCCTTCCTGCAGAAAATTGCCCCCACAGCGC			
51159	T	T	S	GAGAGGTCTGCCTTCCCTTCCTTCCTGCAGAAAATTGCCCCCACAGCGC			
51159	IS	[CT]		GCCGGCTGTGTCACTGCAGGGCTGGCACATGGCAGAGATGGGGAGAGGTCTGCCTTCCCT[CT]CCTTCCTGCAGAA AATTGCCCCCACAGCGCCTCCTTTTGGATAAGGCACAAAACACCCTT	ctg15907	6	
51163	I		S	GCCTCCATGAGGGATAAACAGAGCATCTCTGCAAT			
51163	P	C	S	ATGACGTGGCAGACGTCACTCCTGGTGTTTTACY			
51163	P	T	S	CGCGCCGAGGATCACTCCTGGTGTTTTACY			

FIGURE 129D

51163 T	C	S	TCAGGTAAAACACCAGGAGTGACTTGCAGAGATGCTCTGTTTATCCCTCATGGAGGCCC				
51163 T	T	S	TCAGGTAAAACACCAGGAGTGATTTGCAGAGATGCTCTGTTTATCCCTCATGGAGGCCC				
51163 IS	[CT]		TTCTACAACCTAACCCACAGCAAGTGACTCTAGGCAGCTCAGGTAAAACACCAGGAGTGA[CT]TTGCAGAGATGCTCT GTTTATCCCTCATGGAGGCCCGCTAAGAGATCTGTCCATTACCCA	ctg17036	17		
51164 I		S	CCTGAGTTGGAGTGGAAGGCTCAGCTGTA				
51164 P	A	S	CGCGCCGAGGTTTCCTGCTGCCCCY				
51164 P	G	S	ATGACGTGGCAGACCTTCCTGCTGCCCCY				
51164 T	A	S	CAAAGGGGCAGCAGGAAAACAGCTGAGCCTTCCACTCCAACTCAGGTT				
51164 T	G	S	CAAAGGGGCAGCAGGAAGACAGCTGAGCCTTCCACTCCAACTCAGGTT				
51164 IS	[AG]		ATGACATTTGACTCCAGTCCCACAAGAGGGGTGATGTGTCTGACAAAGGGGCAGCAGGAA[AG]ACAGCTGAGCCTTC CACTCCAACTCAGGTTTCTGAGGTCTCTGTGCAGTTTCTGCGGCAA	ctg17036	17		
51170 I		S	TTGGCTGAGGATGTGTCTAAAAGGAATAATAAATGTGACAA				
51170 P	A	S	CGCGCCGAGGTACAGGGCTTCTCGAGY				
51170 P	G	S	ATGACGTGGCAGACCACAGGGCTTCTCGAY				
51170 T	A	S	ATCACTCGAGAAGCCCTGTATGTCACATTTATTATTCCTTTTAGACACATCCTCAGCCAAGT				
51170 T	G	S	ATCACTCGAGAAGCCCTGTGTGTCACATTTATTATTCCTTTTAGACACATCCTCAGCCAAGT				
51170 IS	[AG]		TAAACTTGTGATTTCTTACTATTGTAATGAAATGGACCTGTATCACTCGAGAAGCCCTGT[AG]TGTCACATTTATTATTC CTTTTAGACACATCCTCAGCCAAGTGTAGTAAATGTCCACACT	ctg15907	6		
51172 I		S	CCAGACCAGCATTTTGCATTGCAGTCAGAGGAAAT				
51172 P	T	S	CGCGCCGAGGAGCATTGCTGCATATTTAAAGY				
51172 P	C	S	ATGACGTGGCAGACGGCATTGCTGCATATTTAAAY				
51172 T	T	S	GTAACTTTAAATATGCAGCAATGCTTTTCCTCTGACTGCAATGCAAAATGCTGGTCTGGGT				
51172 T	C	S	GTAACTTTAAATATGCAGCAATGCCTTTCCTCTGACTGCAATGCAAAATGCTGGTCTGGGT				
51172 IS	[TC]		AATGAGCTGTTAAGATGTTTCCAGAACTGGGGTTTAGTAACTTTAAATATGCAGCAATGC[TC]TTTCCTCTGACTGCAA TGCAAAATGCTGGTCTGGGTGTCCACATTAGCTGAAACCAAATG	ctg13740	5		
51190 I		S	TGGTGCACACGGAACATAGCTGAATAGCACCT				
51190 P	T	S	CGCGCCGAGGACGAAGACTGAAAACAGACY				
51190 P	C	S	ATGACGTGGCAGACGCGAAGACTGAAAACAGAY				
51190 T	T	S	TCAGGTCTGTTTTCAGTCTTCGTGGTGCTATTCAGCTATGTTCCGTGTGCACCACC				
51190 T	C	S	TCAGGTCTGTTTTCAGTCTTCGCGGTGCTATTCAGCTATGTTCCGTGTGCACCACC				
51190 IS	[TC]		AAATTCCAACCTGCCTTCTGTGGGGTGTGATCCCCATGTCAGGTCTGTTTTCAGTCTTCG[TC]GGTGCTATTCAGCTA TGTTCCGTGTGCACCACCCAGTGGCCCGTCTGCGGCGTGGCTGAA	ctg15330	9	LUZP3	
51194 I		A	CTGGGGTCCGAAGCTTTGGCTTCCCA				
51194 P	C	A	ATGACGTGGCAGACCGACCCGCAGAGCY				
51194 P	T	A	CGCGCCGAGGTGACCCGCAGAGCY				
51194 T	C	A	AGCGGCTCTGCGGGTCGGGGAAGCCAAAGCTTCGGACCCCAGGC				
51194 T	T	A	AGCGGCTCTGCGGGTCAGGGAAGCCAAAGCTTCGGACCCCAGGC				
51194 IS	[CT]		GGTTCACCCGCATCCTAACTGTGGGCCCCCAGAGCCTGGGGTCCGAAGCTTTGGCTTCCC[CT]GACCCGCAGAGCC GCTTGTACGGTGTTTACTGCTACCGCCAGCACTAGGACCTGGGGCCC	ctg16170	4		
51205 I		S	CTTGAAGACTTCCGTGGGCGGTCAGCATTAAC				
51205 P	A	S	CGCGCCGAGGTCAGAGGCCAAGCTGY				
51205 P	T	S	ATGACGTGGCAGACACAGAGGCCAAGCTGY				
51205 T	A	S	CGCTCAGCTTGGCCTCTGATTAATGCTGACCGCCCACGGAAGTCTTCAAGAG				
51205 T	T	S	CGCTCAGCTTGGCCTCTGTTTAATGCTGACCGCCCACGGAAGTCTTCAAGAG				
51205 IS	[AT]		GGGATTCAAAGAGAGAAAGAACCAGTTTTGGGGATGCTGTGACGCTCAGCTTGGCCTCTG[AT]TTAATGCTGACCGC CCACGGAAGTCTTCAAGAGGGCCATGAGGCCTTATAACCCTGATGC				
51242 I		S	TTGCACAGGAAAAAGCTGGAATTCTACCCTAAAATTTATCAGATACAACAT				
51242 P	C	S	ATGACGTGGCAGACGTGACCTCTAAAAATCCAACAY				
51242 P	T	S	CGCGCCGAGGATGACCTCTAAAAATCCAACAY				
51242 T	C	S	CCCTTGTTGGATTTTTAGAGGTCACTGTTGTATCTGATAAATTTTAGGGTAGAATTCCAGCTTTTTCCTGTGCAAGA				
51242 T	T	S	CCCTTGTTGGATTTTTAGAGGTCATTGTTGTATCTGATAAATTTTAGGGTAGAATTCCAGCTTTTTCCTGTGCAAGA				
51242 IS	[CT]		GGATGATAATGTGGTAATTTACCTTTATACATTTTACCCTTGTTGGATTTTTAGAGGTCA[CT]TGTTGTATCTGATAAAT TTTAGGGTAGAATTCCAGCTTTTTCCTGTGCAAGACCAATATC	ctg53	14		
51256 I		S	AGATATTTTCAAAATCAGAGTATTAGTGGGGGCTGGGC				
51256 P	A	S	CGCGCCGAGGTCTTAGGAATGCAATTGTAAAAGY				
51256 P	C	S	ATGACGTGGCAGACGCTTAGGAATGCAATTGTAAAY				
51256 T	A	S	CTCCCTTTTACAATTGCATTCCTAAGACCCAGCCCCCACTAATACTCTGATTTTGAAAATATCTTA				
51256 T	C	S	CTCCCTTTTACAATTGCATTCCTAAGCCCCAGCCCCCACTAATACTCTGATTTTGAAAATATCTTA				
51256 IS	[AC]		CTATATAATTTTTCTGCCAAGGGAATATCCATCACTCCCTTTTACAATTGCATTCCTAAG[AC]CCCAGCCCCCACTAATA CTCTGATTTTGAAAATATCTTATTCAACAAGCAATGACATTCT	ctg18433	19		
51261 I		S	TTTGGGTAATGTGGTCCCAGCAGTAATTCTGTTGTTGTATGA				
51261 P	A	S	CGCGCCGAGGTTGATGATTTCCTATATGAAAGTACY				
51261 P	G	S	ATGACGTGGCAGACCTGATGATTTCCTATATGAAAGTACY				
51261 T	A	S	ATGTGTACTTTCATATAGGAAATCATCAACATACAACAACAGAATTACTGCTGGGACCACATTACCCAAAAG				
51261 T	G	S	ATGTGTACTTTCATATAGGAAATCATCAGCATACAACAACAGAATTACTGCTGGGACCACATTACCCAAAAG				
51261 IS	[AG]		AGTAATCCCTATGCTAAAATTTATTATCTAAAATGTGTACTTTCATATAGGAAATCATCA[AG]CATACAACAACAGAATTA CTGCTGGGACCACATTACCCAAAAGAAAGAGAAAAATAGCTT	ctg18466	16		
51293 I		A	CTCTAGCTTAACTTGGAACAAATGGCTCAGCTTCTCTCTCA				
51293 P	C	A	ATGACGTGGCAGACCTGGCTTCTCCATCTCTY				
51293 P	T	A	CGCGCCGAGGTTGGCTTCTCCATCTCTAY				
51293 T	C	A	GTTCTAGAGATGGAGAAGCCAGGAGAGAAGAGCTGAGCCATTTGTTCCAAGTTAAGCTAGAGCC				
51293 T	T	A	GTTCTAGAGATGGAGAAGCCAAGAGAGAAGAGCTGAGCCATTTGTTCCAAGTTAAGCTAGAGCC				
51293 IS	[CT]		GTTCTGGATTCCAACCCTGGCTCTAGCTTAACTTGGAACAAATGGCTCAGCTTCTCTCTC[CT]TGGCTTCTCCATCTCT AGAACTGCAGTGAACCATTTGATCACAGAATAGGAAGGAAGGCC	ctg22fin6	22		
51299 I		S	GCCTGGTGGCAAGATTGCAGCTGGTACTT				
51299 P	C	S	ATGACGTGGCAGACGCCCACAGAGTGACTY				
51299 P	T	S	CGCGCCGAGGACCCACAGAGTGACTGY				
51299 T	C	S	GTTCCAGTCACTCTGTGGGCAGTACCAGCTGCAATCTTGCCACCAGGCCC				
51299 T	T	S	GTTCCAGTCACTCTGTGGGTAGTACCAGCTGCAATCTTGCCACCAGGCCC				
51299 IS	[CT]		GAATGTTCCAGAGCCTTCTTCAGCCTGGAAGCTTCTGGCAGGTTCCAGTCACTCTGTGGG[CT]AGTACCAGCTGCAAT CTTGCCACCAGGCCCCACCCACTCTGCACTGCACCACCCCTGGCA	ctg22fin4	22		
51301 I		S	CACCCACCCGGCCCGACCAT				
51301 P	T	S	CGCGCCGAGGAGCGCCACTCCGY				
51301 P	C	S	ATGACGTGGCAGACGGCGCCACTCCGY				
51301 T	T	S	GGGGCGGAGTGGCGCTTGGTCGGGCCGGGTGGGTGCC				
51301 T	C	S	GGGGCGGAGTGGCGCCTGGTCGGGCCGGGTGGGTGCC				
51301 IS	[TC]		ACGCGGTGTGGGGCGGGCGTCCCCGGGGTGGGACGCCCCGTCCACGGGGCGGAGTGGCGC[TC]TGGTCGGGCCG GGTGGGTGCCCGGCTTCCGTGGGAGCCAGCCTGGCGTGGGGGCCTCGCA	ctg22fin4	22		
51302 I		S	CAAAGCTGTCATTACTTTCTTGCTGGAAACTTTGAAATATTATTTGTTTCCTGTTTCT				
51302 P	C	S	ATGACGTGGCAGACGAACTTCTGGAGATATACCATCY				
51302 P	T	S	CGCGCCGAGGAAACTTCTGGAGATATACCATCY				
51302 T	C	S	CTGGGATGGTATATCTCCAGAAGTTCGAAACAGGAAACAAATAATATTTCAAAGTTTCCAGCAAGAAAGTAATGACAGC TTTGGA				
51302 T	T	S	CTGGGATGGTATATCTCCAGAAGTTTGAAACAGGAAACAAATAATATTTCAAAGTTTCCAGCAAGAAAGTAATGACAGC TTTGGA				

FIGURE 129D

				ACCTCCCTGTGACACTATTGCCCTTAATCATGGTACTGGGATGGTATATCTCCAGAAGTT[CT]GAAACAGGAAACAAAT			
51302 IS	[CT]			AATATTTCAAAGTTTCCAGCAAGAAAGTAATGACAGCTTTGGAG	ctg22fin4	22	
51778 I			A	AAGGTGTCTGCGGGAGCCGATTTCATCAA			
51778 P	C		A	ATGACGTGGCAGACCCACGCAGCTTTTCTT			
51778 P	T		A	CGCGCCGAGGTCACGCAGCTTTTCTTT			
51778 T	C		A	CCTCAAAGAAAAGCTGCGTGGTGATGAAATCGGCTCCCGCAGACACCTT			
51778 T	T		A	CCTCAAAGAAAAGCTGCGTGATGATGAAATCGGCTCCCGCAGACACCTT			
				AAGGTGTCTGCGGGAGCCGATTTCATCA[CT]CACGCAGCTTTTCTTTGAGGCTGACACATTCTTCCGCTTTGTGAAGG			
51778 IS	[CT]			CATGCACCGACAT	ctg15508	17	MTHFR
51785 I			S	ACAACTACCATTACTTTCGTAGCACTTCGTCGCCCT			
51785 P	C		S	ATGACGTGGCAGACGCCAGAAGCTGCTG			
51785 P	T		S	CGCGCCGAGGACCAGAAGCTGCTGAA			
51785 T	C		S	CCTATTCAGCAGCTTCTGGCGGGCGACGAAGTGCTACGAAAGTAATGGTAGTTGTAA			
51785 T	T		S	CCTATTCAGCAGCTTCTGGTGGGCGACGAAGTGCTACGAAAGTAATGGTAGTTGTAA			
				TGGGCGACGAAGTGCTACGAAAGTAATGGTAGTTAAATATGCCTATTCAGCAGCTTCTGG[CT]GGGCGACGAAGTGC			
51785 IS	[CT]			TACGAAAGTAATGGTAGTTGTAACTGACGGTGAATCACATGATGGT			
51801 I			S	GGTAAATCACTGATTATGAGTATAGGTTCAGCAGTGGTTTAGAAA			
51801 P	A		S	CGCGCCGAGGTCCTCAGACCCCGAY			
51801 P	G		S	ATGACGTGGCAGACCCCTCAGACCCCGY			
51801 T	A		S	CCCCTCGGGGTCTGAGGATTCTAAACCACTGCTGAACCTATACTCATAATCAGTGATTTACCAA			
51801 T	G		S	CCCCTCGGGGTCTGAGGGTTCTAAACCACTGCTGAACCTATACTCATAATCAGTGATTTACCAA			
				GGTGGTAAACTATCAGTCAGCTTCAGGGGCAGCTGTCTGCTACCCCCTCGGGGTCTGAGG[AG]TTCTAAACCACTGC			
51801 IS	[AG]			TGAACCTATACTCATAATCAGTGATTTACCAAAAATGATTTTGAAT	ctg15907	6	
51838 I			A	CAAAGGGTGAGTGTGTGAGGTCCCTCCCT			
51838 P	C		A	CGCGCCGAGGCCAAGTCTAAGCCCTCCY			
51838 P	G		A	ATGACGTGGCAGACGCAAGTCTAAGCCCTCY			
51838 T	C		A	GGGAGGAGGGCTTAGACTTGGGGGAGGGACCTCACACACTCACCCTTTGGC			
51838 T	G		A	GGGAGGAGGGCTTAGACTTGCGGGAGGGACCTCACACACTCACCCTTTGGC			
				ATGGCCTCCCTGGGCTGCCTGGTGAGAAGGGCCAAAGGGTGAGTGTGTGAGGTCCCTCCC[CG]CAAGTCTAAGCCC			
51838 IS	[CG]			TCCTCCCAATATTCAAGCCCCCCCAACTTCTCCCTCAGTATCAGAGT	ctg22fin4	22	
51851 I			A	GCAAAAGGTGAAGACTTTACAGTGACTAGTAAGCCAGCCT			
51851 P	G		A	ATGACGTGGCAGACGGACTTTCAGAAGATCAGAAGY			
51851 P	A		A	CGCGCCGAGGAGACTTTCAGAAGATCAGAAGY			
51851 T	G		A	CAGTCTTCTGATCTTCTGAAAGTCCGGCTGGCTTACTAGTCACTGTAAAGTCTTCACCTTTTGCAT			
51851 T	A		A	CAGTCTTCTGATCTTCTGAAAGTCTGGCTGGCTTACTAGTCACTGTAAAGTCTTCACCTTTTGCAT			
				AAGGAACCTGAAGACACATATGCAAAAGGTGAAGACTTTACAGTGACTAGTAAGCCAGCC[GA]GACTTTCAGAAGATC			
51851 IS	[GA]			AGAAGACTGCCTTTAGTATCATTTCTGAAGGCTGTGAGATATTGA	ctg15064	7	
51914 I			S	CATTGTTGTAACACCATTTGTTTTGATACAGGATATCGTTTTTTTTTTC			
51914 P	A		S	CGCGCCGAGGTAAGGTGCTTTTTCCCATATY			
51914 P	T		S	ATGACGTGGCAGACAAAGGTGCTTTTTCCCATY			
51914 T	A		S	AGGCATATGGGAAAAAGCACCTTAAAAAAAAAAACGATATCCTGTATCAAAACAAATGGTGTTACAACAATGCA			
51914 T	T		S	AGGCATATGGGAAAAAGCACCTTTAAAAAAAAAACGATATCCTGTATCAAAACAAATGGTGTTACAACAATGCA			
				TTGCTATGACTTGACGTGATGCATTAAAACAAATTTTAGGCATATGGGAAAAAGCACCTT[AT]AAAAAAAAAACGATATC			
51914 IS	[AT]			CTGTATCAAAACAAATGGTGTTACAACAATGCACAAAGTTAAA	ctg25099	7	
51938 I			A	CGGATCAAGACGACATACGCCCTCTCCTCAAAT			
51938 P	G		A	ATGACGTGGCAGACGTCTGTGTGCCTGGTY			
51938 P	C		A	CGCGCCGAGGCTCTGTGTGCCTGGTY			
51938 T	G		A	GTCTACCAGGCACACAGACTTTGAGGAGAGGGCGTATGTCGTCTTGATCCGCA			
51938 T	C		A	GTCTACCAGGCACACAGAGTTTGAGGAGAGGGCGTATGTCGTCTTGATCCGCA			
				CAAGGGTGGCCGACCCCCATCATTGATGCGGATCAAGACGACATACGCCCTCTCCTCAAA[GC]TCTGTGTGCCTGGT			
51938 IS	[GC]			AGACAGTCGGGCATGAGTACCTGCCAGGACAGGAAAAAAAAATGAA			
51951 I			S	GCCTGAGGCTCATGCAGGAGGAAGAGCT			
51951 P	T		S	CGCGCCGAGGACTTGCTCTGGACTGGY			
51951 P	G		S	ATGACGTGGCAGACCCTTGCTCTGGACTGGY			
51951 T	T		S	GCTTCCAGTCCAGAGCAAGTGCTCTTCCTCCTGCATGAGCCTCAGGCCG			
51951 T	G		S	GCTTCCAGTCCAGAGCAAGGGCTCTTCCTCCTGCATGAGCCTCAGGCCG			
				CACAAAACCCCGCAAGGCATGTCCATGCAGGCCTGGGGCTGGCTTCCAGTCCAGAGCAAG[TG]GCTCTTCCTCCTGC			
51951 IS	[TG]			ATGAGCCTCAGGCCGGCCCGGCCGCCCTCCCTGCGTCTTTCACTCT	ctg16170	4	
51988 I			A	AGGCAAACCCAGAGATTCAGAGCTTCCAATCTCCTTAAATAA			
51988 P	C		A	ATGACGTGGCAGACCTGGAGTTCACAAGAGGAY			
51988 P	T		A	CGCGCCGAGGTTGGAGTTCACAAGAGGAY			
51988 T	C		A	TTTTTCCTCTTGTGAACTCCAGTATTTAAGGAGATTGGAAGCTCTGAATCTCTGGGTTTGCCTGG			
51988 T	T		A	TTTTTCCTCTTGTGAACTCCAATATTTAAGGAGATTGGAAGCTCTGAATCTCTGGGTTTGCCTGG			
				CAAAGTACATACTTCTTCCAGGCAAACCCAGAGATTCAGAGCTTCCAATCTCCTTAAATA[CT]TGGAGTTCACAAGAGG			
51988 IS	[CT]			AAAAAACCATGGTGTAAGTTTTAAGTGACTGACAGCAGAAAACC			
52008 I			A	GTCTCTGCTGATGTTGCTGGCATACCTGCTT			
52008 P	G		A	ATGACGTGGCAGACGTGGACACCCAGTAAAACY			
52008 P	A		A	CGCGCCGAGGATGGACACCCAGTAAAACY			
52008 T	G		A	CACTGTTTTACTGGGTGTCCACAGCAGGTATGCCAGCAACATCAGCAGAGACCA			
52008 T	A		A	CACTGTTTTACTGGGTGTCCATAGCAGGTATGCCAGCAACATCAGCAGAGACCA			
				CTTCCTACATGGACTCTGAGGGGCTCTCTGGTCTCTGCTGATGTTGCTGGCATACCTGCT[GA]TGGACACCCAGTAAA			
52008 IS	[GA]			ACAGTGGCTCCACACAATCATGGGAAAAAAGACGAATATGACCAT	ctg15581	4	
52038 I			S	GAAGAAGCGGTAATGCGCCCGGAGCT			
52038 P	C		S	ATGACGTGGCAGACGACCGGGGAGCGY			
52038 P	T		S	CGCGCCGAGGAACCGGGGAGCGY			
52038 T	C		S	CGCTCGCTCCCCGGTCGCTCCGGGCGCATTACCGCTTCTTCTT			
52038 T	T		S	CGCTCGCTCCCCGGTTGCTCCGGGCGCATTACCGCTTCTTCTT			
				TCCATCCAACCATCCATCCATCCATTCATTCTTTCTTGACGCACTCGCTCGCTCCCCGGT[CT]GCTCCGGGCGCATTA			
52038 IS	[CT]			CCGCTTCTTCTTCTGCTTGAGGGACTTCCTGCGTTTCAGGATCAT	ctg15581	4	
52080 I			S	GGGTCAAATTCTCATCCTGTTGTACAGGATGGT			
52080 P	T		S	CGCGCCGAGGAAATCCGACTCAGGATTTGY			
52080 P	C		S	ATGACGTGGCAGACGAATCCGACTCAGGATTTGY			
52080 T	T		S	TTTACAAATCCTGAGTCGGATTTCCATCCTGTACAACAGGATGAGAATTTGACCCAT			
52080 T	C		S	TTTACAAATCCTGAGTCGGATTCCCATCCTGTACAACAGGATGAGAATTTGACCCAT			
				AGAAAATGTCTCGTGAAAATAAATCAAATGCAGCAGTATTTACAAATCCTGAGTCGGATT[TC]CCATCCTGTACAACAG			
52080 IS	[TC]			GATGAGAATTTGACCCATTATTTACACCAGTAAGCTGAGAATGA	ctg16170	4	
52088 I			A	GAGCTTATGAAACCAGGAAGCACCAGCAGTCTTCT			
52088 P	G		A	ATGACGTGGCAGACGGATCTCTTTCTCTGGAGGY			
52088 P	A		A	CGCGCCGAGGAGATCTCTTTCTCTGGAGGY			
52088 T	G		A	TGGGCCTCCAGAGAAAGAGATCCGAAGACTGCTGGTGCTTCCTGGTTTCATAAGCTCAG			
52088 T	A		A	TGGGCCTCCAGAGAAAGAGATCTGAAGACTGCTGGTGCTTCCTGGTTTCATAAGCTCAG			
				CTTCCAACGAATTCAGACTTCTTACTGAGCTTATGAAACCAGGAAGCACCAGCAGTCTTC[GA]GATCTCTTTCTCTGGA			
52088 IS	[GA]			GGCCCAAATTCCCCTAACTGAGCAGCTCAGGCTGCCGTGGCTCA	ctg14391	11	
52103 I			S	GCGAATTCCATAGTGGGCTCTGGCTTTTCTTGAATAGAA			
52103 P	A		S	CGCGCCGAGGTATCACAAGGTTGCTTATTATCAY			
52103 P	G		S	ATGACGTGGCAGACCATCACAAGGTTGCTTATTATCY			

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FIGURE 129D

52103 T	A	S	CTTTTGATAATAAGCAACCTTGTGATATCTATTCAAGAAAAGCCAGAGCCCACTATGGAATTCGCAG			
52103 T	G	S	CTTTTGATAATAAGCAACCTTGTGATGTCTATTCAAGAAAAGCCAGAGCCCACTATGGAATTCGCAG			
52103 IS	[AG]		GTGACATTTAAATGGTTACATGATTTTAATTATTCTTTTGATAATAAGCAACCTTGTGAT[AG]TCTATTCAAGAAAAGCCA GAGCCCACTATGGAATTCGCAGTTGAATAAGAGCTTTGTTCC			RSU1
52105 I		S	CCTTCGCAGTGTGGCCTGCCCTGA			
52105 P	A	S	CGCGCCGAGGTAGAGCTCTTGTCCCACY			
52105 P	G	S	ATGACGTGGCAGACCAGAGCTCTTGTCCCAY			
52105 T	A	S	CTGAGTGGGACAAGAGCTCTACAGGGCAGGCCACACTGCGAAGGAA			
52105 T	G	S	CTGAGTGGGACAAGAGCTCTGCAGGGCAGGCCACACTGCGAAGGAA			
52105 IS	[AG]		CCTCCTGAAAGGACTTTAGTCTTTGGAGCTGTCACCTGAGCTGAGTGGGACAAGAGCTCT[AG]CAGGGCAGGCCACA CTGCGAAGGAAGGAGGCAACACGGGCAAGGGCTGCCTGCTGCCCGC	ctg16114	X	
52113 I		S	CCTGTTATAGTGAGGGTCCCTGGGGCTGAGT			
52113 P	G	S	CGCGCCGAGGCCTGTGGGTCAGTGGY			
52113 P	C	S	ATGACGTGGCAGACGCTGTGGGTCAGTGGY			
52113 T	G	S	CATTCCACTGACCCACAGGCTCAGCCCCAGGGACCCTCACTATAACAGGTC			
52113 T	C	S	CATTCCACTGACCCACAGCCTCAGCCCCAGGGACCCTCACTATAACAGGTC			
52113 IS	[GC]		TTTTTTGGGCCATCTGCTATATCAAGACCCTCCTCACAGCATCATTCCACTGACCCACAG[GC]CTCAGCCCCAGGGAC CCTCACTATAACAGGTCTTCACTATGCATGCGAACTCACAAAAAC	ctg13446	1	
52114 I		S	CCCCGGGACCAAAGAGGAACCCCT			
52114 P	C	S	ATGACGTGGCAGACGGGACAGCTTCCACAY			
52114 P	T	S	CGCGCCGAGGAGGACAGCTTCCACATATY			
52114 T	C	S	AGGCATATGTGGAAGCTGTCCCGGGGTTCCTCTTTGGTCCCGGGGCC			
52114 T	T	S	AGGCATATGTGGAAGCTGTCCTGGGGTTCCTCTTTGGTCCCGGGGCC			
52114 IS	[CT]		ACCAGCCCCCAGAAACATGCAAGTTGCAGGAGTCCCGAGAGGCATATGTGGAAGCTGTCC[CT]GGGGTTCCTCTTTG GTCCCGGGGCCACACACCTGCCTGTAGAGGTCAGGTTGGAGAGCAG	ctg21fin5	21	
52120 I		A	GGAAAGACAAACGTGTTTCATAAAATTCGTTGTTGATGGTATTGATTGAAACTT			
52120 P	A	A	CGCGCCGAGGATCTGAGCCATGTAATCAAAAY			
52120 P	G	A	ATGACGTGGCAGACGTCTGAGCCATGTAATCAAY			
52120 T	A	A	TATTTTTTGATTACATGGCTCAGATAGTTTCAATCAATACCATCAACAACGAATTTTATGAAACACGTTTGTCTTTCCTG			
52120 T	G	A	TATTTTTTGATTACATGGCTCAGACAGTTTCAATCAATACCATCAACAACGAATTTTATGAAACACGTTTGTCTTTCCTG			
52120 IS	[AG]		GTAGACAGGAAAGACAAACGTGTTTCATAAAATTCGTTGTTGATGGTATTGATTGAAACT[AG]TCTGAGCCATGTAATC AAAAAATAAAAGTTTTCTGCATCTTGCTTGTTAGCAAAGTCTGT	ctg12325	11	
52135 I		S	CAAATCAGATGAGGGATGTCAGCAATCTTTTCCTT			
52135 P	T	S	CGCGCCGAGGAGTCAGTTTTTGCATATTTTAAAGY			
52135 P	C	S	ATGACGTGGCAGACGGTCAGTTTTTGCATATTTTAAAGY			
52135 T	T	S	ACTGCTTTAAAATATGCAAAAACTGACTAGGAAAAGATTGCTGACATCCCTCATCTGATTTGCT			
52135 T	C	S	ACTGCTTTAAAATATGCAAAAACTGACCAGGAAAAGATTGCTGACATCCCTCATCTGATTTGCT			
52135 IS	[TC]		TTTTTCAGAGCTAAAGGAAGCTTCCATAATAGCACTGCTTTAAAATATGCAAAAACTGAC[TC]AGGAAAAGATTGCTGA CATCCCTCATCTGATTTGCTTATTTCAAAGTGAAACACATCAGC	ctg13740	5	
52136 I		S	CTCATAACCATCTGGAGTTAGTGCAGACCCCATAAGTTAAAGAT			
52136 P	C	S	ATGACGTGGCAGACGTATGGTCTCCAGCAAGAY			
52136 P	T	S	CGCGCCGAGGATATGGTCTCCAGCAAGAY			
52136 T	C	S	ACCATCTTGCTGGAGACCATACTCTTTAACTTATGGGGTCTGCACTAACTCCAGATGGTTATGAGAA			
52136 T	T	S	ACCATCTTGCTGGAGACCATATTCTTTAACTTATGGGGTCTGCACTAACTCCAGATGGTTATGAGAA			
52136 IS	[CT]		GAAGCTCAGGGATTTGCAGCCTCTGAGTATGAAGCGAGGACCATCTTGCTGGAGACCATA[CT]TCTTTAACTTATGGG GTCTGCACTAACTCCAGATGGTTATGAGAACTGAATTGCAGTGTA	ctg14708	2	
52163 I		A	CACTCTCTCTCCCTTTTCCAAATCATGCCCAAGGAATTAA			
52163 P	T	A	CGCGCCGAGGTTGAAAATGAGGTAACAATAGGY			
52163 P	C	A	ATGACGTGGCAGACCTGAAAATGAGGTAACAATAGGY			
52163 T	T	A	TTGCCCTATTGTTACCTCATTTTCAATAATTCCTTGGGCATGATTTGGAAAAGGGAGAGAGAGTGAT			
52163 T	C	A	TTGCCCTATTGTTACCTCATTTTCAGTAATTCCTTGGGCATGATTTGGAAAAGGGAGAGAGAGTGAT			
52163 IS	[TC]		CCATGCTATGGAATTATATATCACTCTCTCTCCCTTTTCCAAATCATGCCCAAGGAATTA[TC]TGAAAATGAGGTAACAA TAGGGCAAAAATGTTAACTCATTCCATCTTCACAGATAGTTCC	ctg15665	20	
52177 I		A	TGAAGGCACTGCGTAAGGATGAGCTGGGT			
52177 P	G	A	ATGACGTGGCAGACGGCAGGGAGGCCY			
52177 P	A	A	CGCGCCGAGGAGCAGGGAGGCCAY			
52177 T	G	A	ATGGTGGCCTCCCTGCCCCCAGCTCATCCTTACGCAGTGCCTTCAAA			
52177 T	A	A	ATGGTGGCCTCCCTGCTCCCAGCTCATCCTTACGCAGTGCCTTCAAA			
52177 IS	[GA]		AGACTAAGCAGCACCTTTGAAGACACTCAATTTGAAGGCACTGCGTAAGGATGAGCTGGG[GA]GCAGGGAGGCCACC ATGTGGAGCTGGATGTCTGATTGCGGGCACCTCACGTTGCCTGCTC			
52186 I		A	TCACATGAGTGCTGGATGGGGCTGAGCT			
52186 P	A	A	CGCGCCGAGGAAGTGACAGTTGTCTCTTTCY			
52186 P	G	A	ATGACGTGGCAGACGAGTGACAGTTGTCTCTTTCY			
52186 T	A	A	GTAGGAAAGAGACAACTGTCACTTGCTCAGCCCCATCCAGCACTCATGTGACC			
52186 T	G	A	GTAGGAAAGAGACAACTGTCACTCGCTCAGCCCCATCCAGCACTCATGTGACC			
52186 IS	[AG]		TTCCCTCAGGAGGATATCATAGCAGCTGTCAGGTCACATGAGTGCTGGATGGGGCTGAGC[AG]AGTGACAGTTGTCT CTTTCCTACGTCTAGGAGAAGCCATGCCAGTCACTAAGAAACCCGG	ctg16339	X	
52204 I		A	ACTGTGTTACTGGAATGTGCAGGGTTACTTCAA			
52204 P	T	A	CGCGCCGAGGTGGTTTCCCTAAGGGCY			
52204 P	C	A	ATGACGTGGCAGACCGGTTTCCCTAAGGGCY			
52204 T	T	A	AGACGCCCTTAGGGAAACCATGAAGTAACCCTGCACATTCCAGTAACACAGTTA			
52204 T	C	A	AGACGCCCTTAGGGAAACCGTGAAGTAACCCTGCACATTCCAGTAACACAGTTA			
52204 IS	[TC]		TTCCTAGTTAGGCTCTTGTTTTGTCATAACTGTGTTACTGGAATGTGCAGGGTTACTTCA[TC]GGTTTCCCTAAGGGCG TCTAAAAGAAAAAGGGGAAAGGATACCGAAGTAAAAGAAAGCA	ctg17403	17	
52216 I		S	GAACAGAAAGATGAAGGCTTCCTCCTCAGAGAACCCT			
52216 P	C	S	ATGACGTGGCAGACGTGGATGACAGAATACATGAY			
52216 P	T	S	CGCGCCGAGGATGGATGACAGAATACATGAGY			
52216 T	C	S	GCACCTCATGTATTCTGTCATCCACGGGTTCTCTGAGGAGGAAGCCTTCATCTTTCTGTTCTT			
52216 T	T	S	GCACCTCATGTATTCTGTCATCCATGGGTTCTCTGAGGAGGAAGCCTTCATCTTTCTGTTCTT			
52216 IS	[CT]		GTCCACGCAAGTGTTTCTTTAAGCTCTTGCCGAATAGCACCTCATGTATTCTGTCATCCA[CT]GGGTTCTCTGAGGAG GAAGCCTTCATCTTTCTGTTCTTCTCCACATCCACAGAGTGAGCT	ctg22fin3	22	
52220 I		A	GCACGGAGCCGTTCTTTCTTTCTCTTAGACATCTGCT			
52220 P	A	A	CGCGCCGAGGATGGTGGTGACCTCATAGY			
52220 P	G	A	ATGACGTGGCAGACGTGGTGGTGACCTCAY			
52220 T	A	A	AATTCTATGAGGTCACCACCATGCAGATGTCTAAGAGAAAGAAAGAACGGCTCCGTGCAG			
52220 T	G	A	AATTCTATGAGGTCACCACCACGCAGATGTCTAAGAGAAAGAAAGAACGGCTCCGTGCAG			
52220 IS	[AG]		ATTCAGTTGCAGTGGCCTGGATCTGCACGGAGCCGTTCTTTCTTTCTCTTAGACATCTGC[AG]TGGTGGTGACCTCAT AGAATTCTAAGAAAAAAGGGGCTTTATGTAGGAATTCCATAGAGT	ctg15907	6	
52241 I		A	GGCGGGCCGCAGGGGACAC			
52241 P	G	A	ATGACGTGGCAGACGAAGGTTAATTATTGCCCAGAY			
52241 P	T	A	CGCGCCGAGGTAAGGTTAATTATTGCCCAGAY			

FIGURE 129D

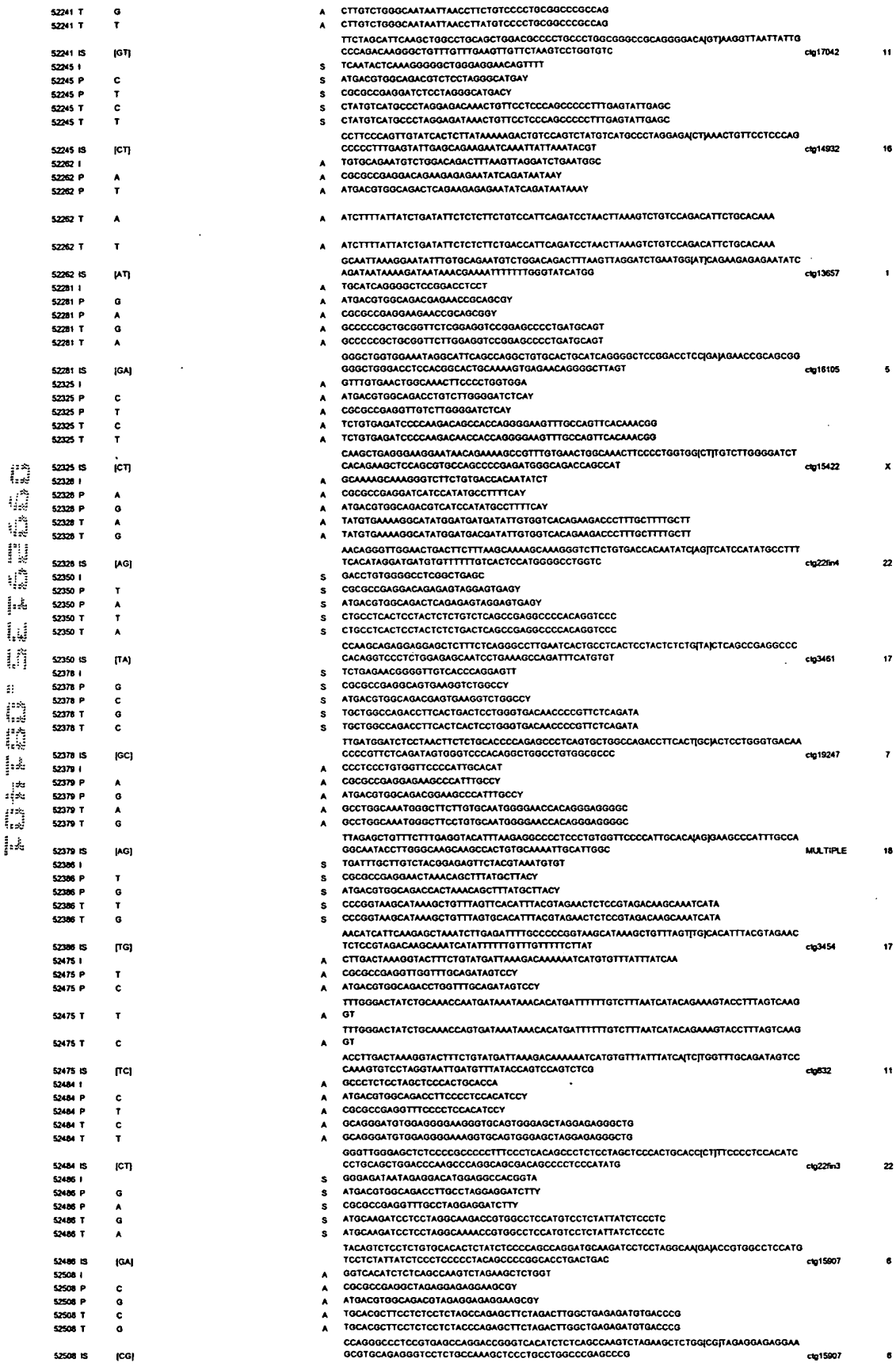

52241 T G A CTTGTCTGGGCAATAATTAACCTTCTGTCCCCTGCGGCCCGCCAG
52241 T T A CTTGTCTGGGCAATAATTAACCTTATGTCCCCTGCGGCCCGCCAG
52241 IS (GT) TTCTAGCATTCAAGCTGGCCTGCAGCTGGACGCCCCTGCCCTGGCGGGCCGCAGGGGACA(GT)AAGGTTAATTATTG CCCAGACAAGGGCTGTTTGTTTGAAGTTGTTCTAAGTCCTGGTGTC ctg17042 11
52245 I S TCAATACTCAAAGGGGGCTGGGAGGAACAGTTTT
52245 P C S ATGACGTGGCAGACGTCTCCTAGGGCATGAY
52245 P T S CGCGCCGAGGATCTCCTAGGGCATGACY
52245 T C S CTATGTCATGCCCTAGGAGACAAACTGTTCCTCCCAGCCCCCTTTGAGTATTGAGC
52245 T T S CTATGTCATGCCCTAGGAGATAAACTGTTCCTCCCAGCCCCCTTTGAGTATTGAGC
52245 IS (CT) CCTTCCCAGTTGTATCACTCTTATAAAAAGACTGTCCAGTCTATGTCATGCCCTAGGAGA(CT)AAACTGTTCCTCCCAG CCCCCTTTGAGTATTGAGCAGAAGAATCAAATTATTAAATACGT ctg14932 16
52262 I A TGTGCAGAATGTCTGGACAGACTTTAAGTTAGGATCTGAATGGC
52262 P A A CGCGCCGAGGACAGAAGAGAGAATATCAGATAATAAY
52262 P T A ATGACGTGGCAGACTCAGAAGAGAGAATATCAGATAATAAAY
52262 T A A ATCTTTTATTATCTGATATTCTCTCTTCTGTCCATTCAGATCCTAACTTAAAGTCTGTCCAGACATTCTGCACAAA
52262 T T A ATCTTTTATTATCTGATATTCTCTCTTCTGACCATTCAGATCCTAACTTAAAGTCTGTCCAGACATTCTGCACAAA
52262 IS (AT) GCAATTAAAGGAATATTTGTGCAGAATGTCTGGACAGACTTTAAGTTAGGATCTGAATGG(AT)CAGAAGAGAGAATATC AGATAATAAAAGATAATAAACGAAAATTTTTTTGGGTATCATGG ctg13657 1
52281 I A TGCATCAGGGGCTCCGGACCTCCT
52281 P G A ATGACGTGGCAGACGAGAACCGCAGCGGY
52281 P A A CGCGCCGAGGAAGAACCGCAGCGGY
52281 T G A GCCCCCGCTGCGGTTCTCGGAGGTCCGGAGCCCCTGATGCAGT
52281 T A A GCCCCCGCTGCGGTTCTTGGAGGTCCGGAGCCCCTGATGCAGT
52281 IS (GA) GGGCTGGTGGAAATAGGCATTCAGCCAGGCTGTGCACTGCATCAGGGGCTCCGGACCTCC(GA)AGAACCGCAGCGG GGGCTGGGACCTCCACGGCACTGCAAAAGTGAGAACAGGGGCTTAGT ctg16105 5
52325 I A GTTTGTGAACTGGCAAACTTCCCCTGGTGGA
52325 P C A ATGACGTGGCAGACCTGTCTTGGGGATCTCAY
52325 P T A CGCGCCGAGGTTGTCTTGGGGATCTCAY
52325 T C A TCTGTGAGATCCCCAAGACAGCCACCAGGGGAAGTTTGCCAGTTCACAAACGG
52325 T T A TCTGTGAGATCCCCAAGACAACCACCAGGGGAAGTTTGCCAGTTCACAAACGG
52325 IS (CT) CAAGCTGAGGGAAGGAATAACAGAAAAGCCGTTTGTGAACTGGCAAACTTCCCCTGGTGG(CT)TGTCTTGGGGATCT CACAGAAGCTCCAGCGTGCCAGCCCCGAGATGGGCAGACCAGCCAT ctg15422 X
52328 I A GCAAAAGCAAAGGGTCTTCTGTGACCACAATATCT
52328 P A A CGCGCCGAGGATCATCCATATGCCTTTTCAY
52328 P G A ATGACGTGGCAGACGTCATCCATATGCCTTTTCAY
52328 T A A TATGTGAAAAGGCATATGGATGATGATATTGTGGTCACAGAAGACCCTTTGCTTTTGCTT
52328 T G A TATGTGAAAAGGCATATGGATGACGATATTGTGGTCACAGAAGACCCTTTGCTTTTGCTT
52328 IS (AG) AACAGGGTTGGAACTGACTTCTTTAAGCAAAAGCAAAGGGTCTTCTGTGACCACAATATC(AG)TCATCCATATGCCTTT TCACATAGGATGATGTGTTTTTTGTCACTCCATGGGGCCTGGTC ctg22fin4 22
52350 I S GACCTGTGGGGCCTCGGCTGAGC
52350 P T S CGCGCCGAGGACAGAGAGTAGGAGTGAGY
52350 P A S ATGACGTGGCAGACTCAGAGAGTAGGAGTGAGY
52350 T T S CTGCCTCACTCCTACTCTCTGTCTCAGCCGAGGCCCCACAGGTCCC
52350 T A S CTGCCTCACTCCTACTCTCTGACTCAGCCGAGGCCCCACAGGTCCC
52350 IS (TA) CCAAGCAGAGGAGGAGCTCTTTCTCAGGGCCTTGAATCACTGCCTCACTCCTACTCTCTG(TA)CTCAGCCGAGGCCC CACAGGTCCCTCTGGAGAGCAATCCTGAAAGCCAGATTTCATGTGT ctg3451 17
52378 I S TCTGAGAACGGGGTTGTCACCCAGGAGTT
52378 P G S CGCGCCGAGGCAGTGAAGGTCTGGCCY
52378 P C S ATGACGTGGCAGACGAGTGAAGGTCTGGCCY
52378 T G S TGCTGGCCAGACCTTCACTGACTCCTGGGTGACAACCCCGTTCTCAGATA
52378 T C S TGCTGGCCAGACCTTCACTCACTCCTGGGTGACAACCCCGTTCTCAGATA
52378 IS (GC) TTGATGGATCTCCTAACTTCTCTGCACCCCAGAGCCCTCAGTGCTGGCCAGACCTTCACT(GC)ACTCCTGGGTGACAA CCCCGTTCTCAGATAGTGGGTCCCACAGGCTGGCCTGTGGCGCCC ctg19247 7
52379 I A CCCTCCCTGTGGTTCCCCATTGCACAT
52379 P A A CGCGCCGAGGAGAAGCCCATTTGCCY
52379 P G A ATGACGTGGCAGACGGAAGCCCATTTGCCY
52379 T A A GCCTGGCAAATGGGCTTCTTGTGCAATGGGGAACCACAGGGAGGGGC
52379 T G A GCCTGGCAAATGGGCTTCCTGTGCAATGGGGAACCACAGGGAGGGGC
52379 IS (AG) TTAGAGCTGTTTCTTTGAGGTACATTTAAGAGGCCCCTCCCTGTGGTTCCCCATTGCACA(AG)GAAGCCCATTTGCCA GGCAATACCTTGGGCAAGCAAGCCACTGTGCAAAATTGCATTGGC MULTIPLE 18
52386 I S TGATTTGCTTGTCTACGGAGAGTTCTACGTAAATGTGT
52386 P T S CGCGCCGAGGAACTAAACAGCTTTATGCTTACY
52386 P G S ATGACGTGGCAGACCACTAAACAGCTTTATGCTTACY
52386 T T S CCCGGTAAGCATAAAGCTGTTTAGTTCACATTTACGTAGAACTCTCCGTAGACAAGCAAATCATA
52386 T G S CCCGGTAAGCATAAAGCTGTTTAGTGCACATTTACGTAGAACTCTCCGTAGACAAGCAAATCATA
52386 IS (TG) AACATCATTCAAGAGCTAAATCTTGAGATTTTGCCCCCGGTAAGCATAAAGCTGTTTAGT(TG)CACATTTACGTAGAAC TCTCCGTAGACAAGCAAATCATATTTTTTGTTTGTTTTTCTTAT ctg3454 17
52475 I A CTTGACTAAAGGTACTTTCTGTATGATTAAAGACAAAAAATCATGTGTTTATTTATCAA
52475 P T A CGCGCCGAGGTTGGTTTGCAGATAGTCCY
52475 P C A ATGACGTGGCAGACCTGGTTTGCAGATAGTCCY
52475 T T A TTTGGGACTATCTGCAAACCAATGATAAATAAACACATGATTTTTTGTCTTTAATCATACAGAAAGTACCTTTAGTCAAG GT
52475 T C A TTTGGGACTATCTGCAAACCAGTGATAAATAAACACATGATTTTTTGTCTTTAATCATACAGAAAGTACCTTTAGTCAAG GT
52475 IS (TC) ACCTTGACTAAAGGTACTTTCTGTATGATTAAAGACAAAAAATCATGTGTTTATTTATCA(TC)TGGTTTGCAGATAGTCC CAAAGTGTCCTAGGTAATTGATGTTTATACCAGTCCAGTCTCG ctg832 11
52484 I A GCCCTCTCCTAGCTCCCACTGCACCA
52484 P C A ATGACGTGGCAGACCTTCCCCTCCACATCCY
52484 P T A CGCGCCGAGGTTTCCCCTCCACATCCY
52484 T C A GCAGGGATGTGGAGGGGAAAGGGTGCAGTGGGAGCTAGGAGAGGGCTG
52484 T T A GCAGGGATGTGGAGGGGAAAGGTGCAGTGGGAGCTAGGAGAGGGCTG
52484 IS (CT) GGGTTGGGAGCTCTCCCCGCCCCCTTTCCCTCACAGCCCTCTCCTAGCTCCCACTGCACC(CT)TTCCCCTCCACATC CCTGCAGCTGGACCCAAGCCCAGGCAGCGACAGCCCCTCCCATATG ctg22fin3 22
52486 I S GGGAGATAATAGAGGACATGGAGGCCACGGTA
52486 P G S ATGACGTGGCAGACCTTGCCTAGGAGGATCTTY
52486 P A S CGCGCCGAGGTTTGCCTAGGAGGATCTTY
52486 T G S ATGCAAGATCCTCCTAGGCAAGACCGTGGCCTCCATGTCCTCTATTATCTCCCTC
52486 T A S ATGCAAGATCCTCCTAGGCAAAACCGTGGCCTCCATGTCCTCTATTATCTCCCTC
52486 IS (GA) TACAGTCTCCTCTGTGCACACTCTATCTCCCCAGCCAGGATGCAAGATCCTCCTAGGCAA(GA)ACCGTGGCCTCCATG TCCTCTATTATCTCCCTCCCCCTACAGCCCCGGCACCTGACTGAC ctg15907 6
52508 I A GGTCACATCTCTCAGCCAAGTCTAGAAGCTCTGGT
52508 P C A CGCGCCGAGGCTAGAGGAGAGGAAGCGY
52508 P G A ATGACGTGGCAGACGTAGAGGAGAGGAAGCGY
52508 T C A TGCACGCTTCCTCTCCTCTAGCCAGAGCTTCTAGACTTGGCTGAGAGATGTGACCCG
52508 T G A TGCACGCTTCCTCTCCTCTACCCAGAGCTTCTAGACTTGGCTGAGAGATGTGACCCG
52508 IS (CG) CCAGGGCCCTCCGTGAGCCAGGACCGGGTCACATCTCTCAGCCAAGTCTAGAAGCTCTGG(CG)TAGAGGAGAGGAA GCGTGCAGAGGGTCCTCTGCCAAAGCTCCCTGCCTGGCCCGAGCCCG ctg15907 6

FIGURE 129D

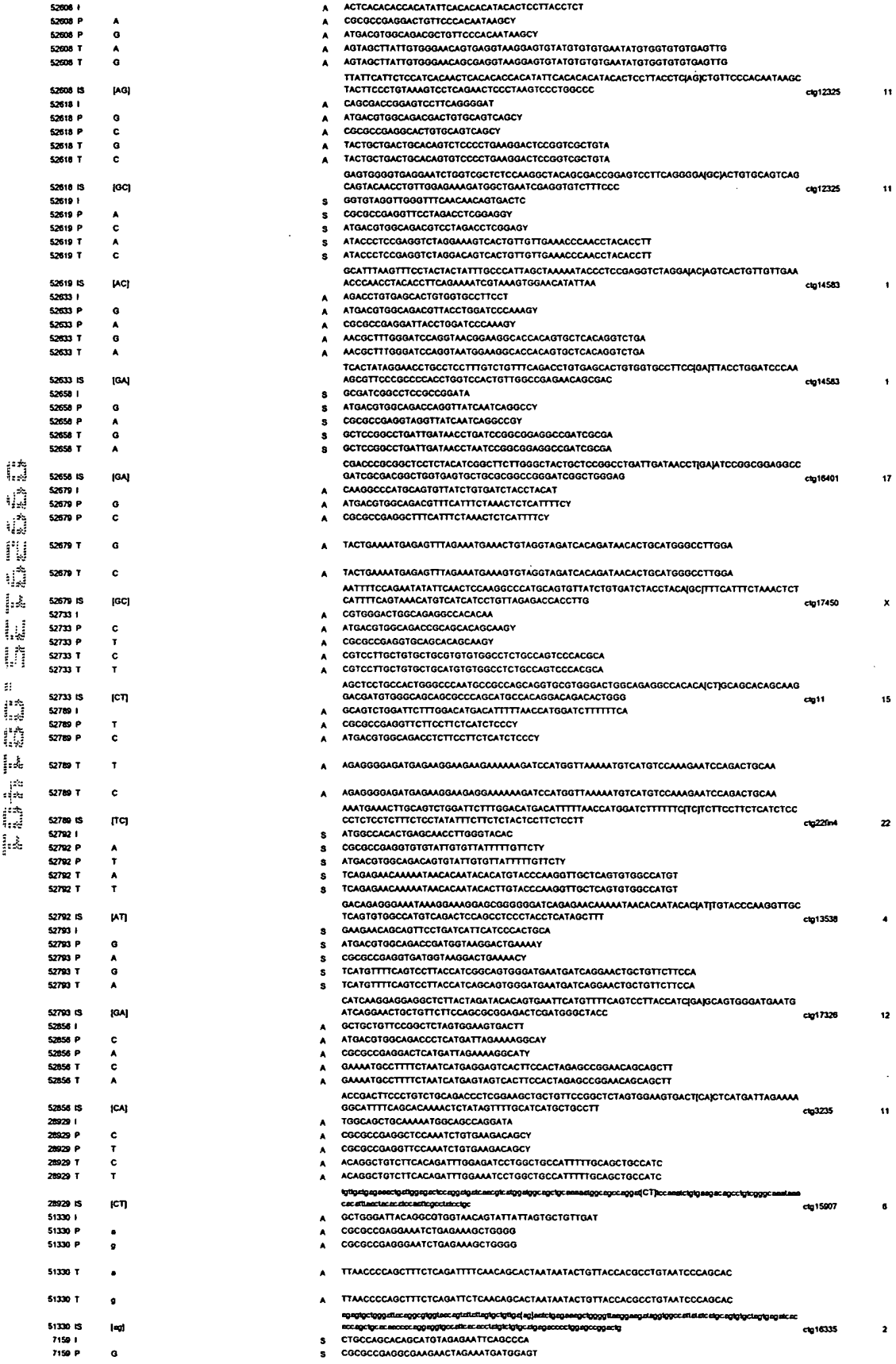

52608 I A ACTCACACACCACATATTCACACACATACACTCCTTACCTCT
52608 P A A CGCGCCGAGGACTGTTCCCACAATAAGCY
52608 P G A ATGACGTGGCAGACGCTGTTCCCACAATAAGCY
52608 T A A AGTAGCTTATTGTGGGAACAGTGAGGTAAGGAGTGTATGTGTGTGAATATGTGGTGTGTGAGTTG
52608 T G A AGTAGCTTATTGTGGGAACAGCGAGGTAAGGAGTGTATGTGTGTGAATATGTGGTGTGTGAGTTG
52608 IS [AG] TTATTCATTCTCCATCACAACTCACACACCACATATTCACACACATACACTCCTTACCT[AG]CTGTTCCCACAATAAGC TACTTCCCTGTAAAGTCCTCAGAACTCCCTAAGTCCCTGGCCC ctg12325 11
52618 I A CAGCGACCGGAGTCCTTCAGGGGAT
52618 P G A ATGACGTGGCAGACGACTGTGCAGTCAGCY
52618 P C A CGCGCCGAGGCACTGTGCAGTCAGCY
52618 T G A TACTGCTGACTGCACAGTCTCCCCTGAAGGACTCCGGTCGCTGTA
52618 T C A TACTGCTGACTGCACAGTGTCCCCTGAAGGACTCCGGTCGCTGTA
52618 IS [GC] GAGTGGGGTGAGGAATCTGGTCGCTCTCCAAGGCTACAGCGACCGGAGTCCTTCAGGGGA[GC]ACTGTGCAGTCAG CAGTACAACCTGTTGGAGAAAGATGGCTGAATCGAGGTGTCTTTCCC ctg12325 11
52619 I S GGTGTAGGTTGGGTTTCAACAACAGTGACTC
52619 P A S CGCGCCGAGGTTCCTAGACCTCGGAGGY
52619 P C S ATGACGTGGCAGACGTCCTAGACCTCGGAGY
52619 T A S ATACCCTCCGAGGTCTAGGAAAGTCACTGTTGTTGAAACCCAACCTACACCTT
52619 T C S ATACCCTCCGAGGTCTAGGACAGTCACTGTTGTTGAAACCCAACCTACACCTT
52619 IS [AC] GCATTTAAGTTTCCTACTACTATTTGCCCATTAGCTAAAAATACCCTCCGAGGTCTAGGA[AC]AGTCACTGTTGTTGAA ACCCAACCTACACCTTCAGAAAATCGTAAAGTGGAACATATTAA ctg14583 1
52633 I A AGACCTGTGAGCACTGTGGTGCCTTCCT
52633 P G A ATGACGTGGCAGACGTTACCTGGATCCCAAAGY
52633 P A A CGCGCCGAGGATTACCTGGATCCCAAAGY
52633 T G A AACGCTTTGGGATCCAGGTAACGGAAGGCACCACAGTGCTCACAGGTCTGA
52633 T A A AACGCTTTGGGATCCAGGTAATGGAAGGCACCACAGTGCTCACAGGTCTGA
52633 IS [GA] TCACTATAGGAACCTGCCTCCTTTGTCTGTTTCAGACCTGTGAGCACTGTGGTGCCTTCC[GA]TTACCTGGATCCCAA AGCGTTCCCGCCCCACCTGGTCCACTGTTGGCCGAGAACAGCGAC ctg14583 1
52658 I S GCGATCGGCCTCCGCCGGATA
52658 P G S ATGACGTGGCAGACCAGGTTATCAATCAGGCCY
52658 P A S CGCGCCGAGGTAGGTTATCAATCAGGCCGY
52658 T G S GCTCCGGCCTGATTGATAACCTGATCCGGCGGAGGCCGATCGCGA
52658 T A S GCTCCGGCCTGATTGATAACCTAATCCGGCGGAGGCCGATCGCGA
52658 IS [GA] CGACCCGCGGCTCCTCTACATCGGCTTCTTGGGCTACTGCTCCGGCCTGATTGATAACCT[GA]ATCCGGCGGAGGCC GATCGCGACGGCTGGTGAGTGCTGCGCGGCCGGGATCGGCTGGGAG ctg16401 17
52679 I A CAAGGCCCATGCAGTGTTATCTGTGATCTACCTACAT
52679 P G A ATGACGTGGCAGACGTTTCATTTCTAAACTCTCATTTTCY
52679 P C A CGCGCCGAGGCTTTCATTTCTAAACTCTCATTTTCY
52679 T G A TACTGAAAATGAGAGTTTAGAAATGAAACTGTAGGTAGATCACAGATAACACTGCATGGGCCTTGGA
52679 T C A TACTGAAAATGAGAGTTTAGAAATGAAAGTGTAGGTAGATCACAGATAACACTGCATGGGCCTTGGA
52679 IS [GC] AATTTTCCAGAATATATTCAACTCCAAGGCCCATGCAGTGTTATCTGTGATCTACCTACA[GC]TTTCATTTCTAAACTCT CATTTTCAGTAAACATGTCATCATCCTGTTAGAGACCACCTTG ctg17450 X
52733 I A CGTGGGACTGGCAGAGGCCACACAA
52733 P C A ATGACGTGGCAGACCGCAGCACAGCAAGY
52733 P T A CGCGCCGAGGTGCAGCACAGCAAGY
52733 T C A CGTCCTTGCTGTGCTGCGTGTGTGGCCTCTGCCAGTCCCACGCA
52733 T T A CGTCCTTGCTGTGCTGCATGTGTGGCCTCTGCCAGTCCCACGCA
52733 IS [CT] AGCTCCTGCCACTGGGCCCAATGCCGCCAGCAGGTGCGTGGGACTGGCAGAGGCCACACA[CT]GCAGCACAGCAAG GACGATGTGGGCAGCAGCGCCCAGCATGCCACAGGACAGACACTGGG ctg11 15
52789 I A GCAGTCTGGATTCTTTGGACATGACATTTTTAACCATGGATCTTTTTTCA
52789 P T A CGCGCCGAGGTTCTTCCTTCTCATCTCCCY
52789 P C A ATGACGTGGCAGACCTCTTCCTTCTCATCTCCCY
52789 T T A AGAGGGGAGATGAGAAGGAAGAAGAAAAAAGATCCATGGTTAAAAATGTCATGTCCAAAGAATCCAGACTGCAA
52789 T C A AGAGGGGAGATGAGAAGGAAGAGGAAAAAAGATCCATGGTTAAAAATGTCATGTCCAAAGAATCCAGACTGCAA
52789 IS [TC] AAATGAAACTTGCAGTCTGGATTCTTTGGACATGACATTTTTAACCATGGATCTTTTTT C[TC]TCTTCCTTCTCATCTCC CCTCTCCTCTTTCTCCTATATTTCTTCTCTACTCCTTCTCCTT ctg22fin4 22
52792 I S ATGGCCACACTGAGCAACCTTGGGTACAC
52792 P A S CGCGCCGAGGTGTGTATTGTGTTATTTTTGTTCTY
52792 P T S ATGACGTGGCAGACAGTGTATTGTGTTATTTTTGTTCTY
52792 T A S TCAGAGAACAAAAATAACACAATACACATGTACCCAAGGTTGCTCAGTGTGGCCATGT
52792 T T S TCAGAGAACAAAAATAACACAATACACTTGTACCCAAGGTTGCTCAGTGTGGCCATGT
52792 IS [AT] GACAGAGGGAAATAAAGGAAAGGAGCGGGGGGATCAGAGAACAAAAATAACACAATACAC[AT]TGTACCCAAGGTTGC TCAGTGTGGCCATGTCAGACTCCAGCCTCCCTACCTCATAGCTTT ctg13538 4
52793 I S GAAGAACAGCAGTTCCTGATCATTCATCCCACTGCA
52793 P G S ATGACGTGGCAGACCGATGGTAAGGACTGAAAAY
52793 P A S CGCGCCGAGGTGATGGTAAGGACTGAAAACY
52793 T G S TCATGTTTTCAGTCCTTACCATCGGCAGTGGGATGAATGATCAGGAACTGCTGTTCTTCCA
52793 T A S TCATGTTTTCAGTCCTTACCATCAGCAGTGGGATGAATGATCAGGAACTGCTGTTCTTCCA
52793 IS [GA] CATCAAGGAGGAGGGCTCTTACTAGATACACAGTGAATTCATGTTTTCAGTCCTTACCATC[GA]GCAGTGGGATGAATG ATCAGGAACTGCTGTTCTTCCAGCGCGGAGACTCGATGGGCTACC ctg17326 12
52856 I A GCTGCTGTTCCGGCTCTAGTGGAAGTGACTT
52856 P C A ATGACGTGGCAGACCCTCATGATTAGAAAAGGCAY
52856 P A A CGCGCCGAGGACTCATGATTAGAAAAGGCATY
52856 T C A GAAAATGCCTTTTCTAATCATGAGGAGTCACTTCCACTAGAGCCGGAACAGCAGCTT
52856 T A A GAAAATGCCTTTTCTAATCATGAGTAGTCACTTCCACTAGAGCCGGAACAGCAGCTT
52856 IS [CA] ACCGACTTCCCTGTCTGCAGACCCTCGGAAGCTGCTGTTCCGGCTCTAGTGGAAGTGACT[CA]CTCATGATTAGAAAA GGCATTTTCAGCACAAAACTCTATAGTTTTGCATCATGCTGCCTT ctg3235 11
28929 I A TGGCAGCTGCAAAAATGGCAGCCAGGATA
28929 P C A CGCGCCGAGGCTCCAAATCTGTGAAGACAGCY
28929 P T A CGCGCCGAGGTTCCAAATCTGTGAAGACAGCY
28929 T C A ACAGGCTGTCTTCACAGATTTGGAGATCCTGGCTGCCATTTTTGCAGCTGCCATC
28929 T T A ACAGGCTGTCTTCACAGATTTGGAAATCCTGGCTGCCATTTTTGCAGCTGCCATC
28929 IS [CT] tgttgctgcagaaactgctgggcgactccagggtgctccaccgtcatggtgggcagctgccaaaatgggcagccagggct[CT]tccaaatctgtgcagcacagcctgtccgggccaaataaa cacatttaactacacctccaatgcgcctatcctgc ctg15907 6
51330 I A GCTGGGATTACAGGCGTGGTAACAGTATTATTAGTGCTGTTGAT
51330 P a A CGCGCCGAGGAAATCTGAGAAAGCTGGGG
51330 P g A CGCGCCGAGGGAATCTGAGAAAGCTGGGG
51330 T a A TTAACCCCAGCTTTCTCAGATTTTCAACAGCACTAATAATACTGTTACCACGCCTGTAATCCCAGCAC
51330 T g A TTAACCCCAGCTTTCTCAGATTCTCAACAGCACTAATAATACTGTTACCACGCCTGTAATCCCAGCAC
51330 IS [ag] agagtgctgggatcaccaggcgtggtaacagtatttattagtgctgtgat[ag]aatctgagaaagctgggggttaaggaaggatgggccattatatcctgcagtgtgctagtgagatccac accagctgcaccaccccaggaggtgccattcaccatctgtctgtgccatgcagccccctggagcccggactg ctg16335 2
7159 I S CTGCCAGCACAGCATGTAGAGAATTCAGCCCA
7159 P G S CGCGCCGAGGCGAAGAACTAGAAATGATGGAGT

FIGURE 129D

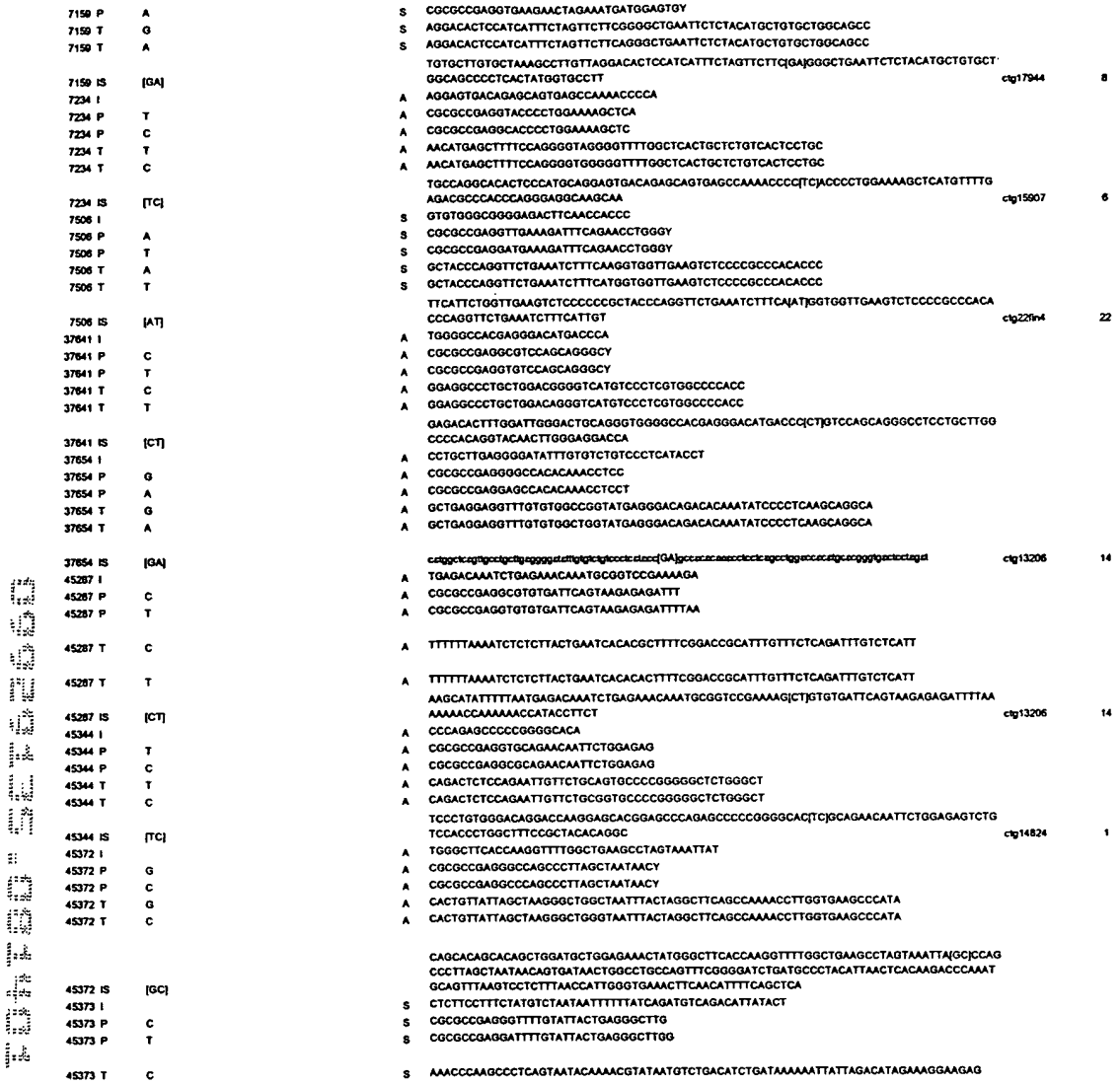
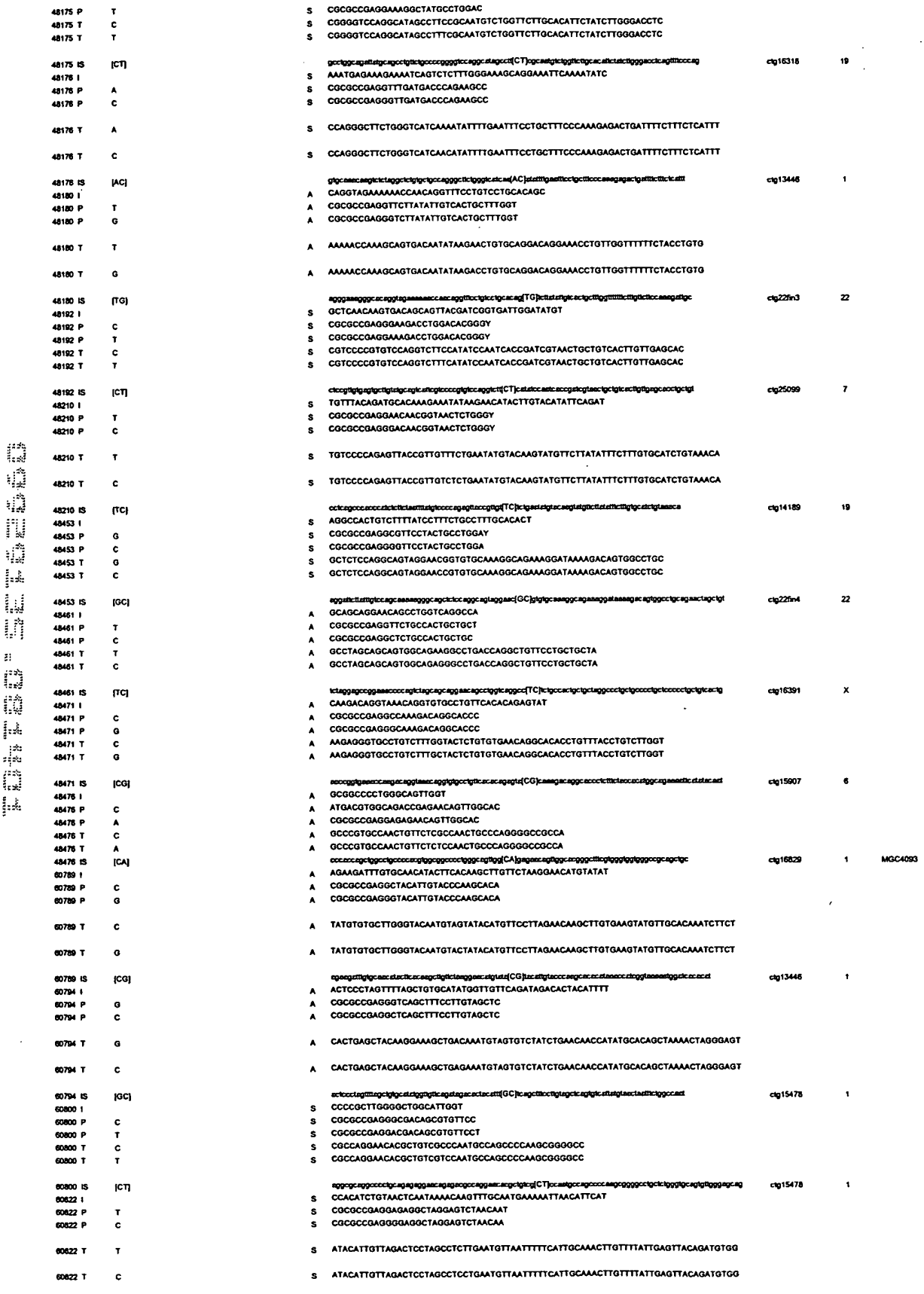

7159 P A S CGCGCCGAGGTGAAGAACTAGAAATGATGGAGTGY
7159 T G S AGGACACTCCATCATTTCTAGTTCTTCGGGGCTGAATTCTCTACATGCTGTGCTGGCAGCC
7159 T A S AGGACACTCCATCATTTCTAGTTCTTCAGGGCTGAATTCTCTACATGCTGTGCTGGCAGCC
TGTGCTTGTGCTAAAGCCTTGTTAGGACACTCCATCATTTCTAGTTCTTC[GA]GGGCTGAATTCTCTACATGCTGTGCT
7159 IS [GA] GGCAGCCCCTCACTATGGTGCCTT ctg17944 8
7234 I A AGGAGTGACAGAGCAGTGAGCCAAAACCCCA
7234 P T A CGCGCCGAGGTACCCCTGGAAAAGCTCA
7234 P C A CGCGCCGAGGCACCCCTGGAAAAGCTC
7234 T T A AACATGAGCTTTTCCAGGGGTAGGGGTTTTGGCTCACTGCTCTGTCACTCCTGC
7234 T C A AACATGAGCTTTTCCAGGGGTGGGGGTTTTGGCTCACTGCTCTGTCACTCCTGC
TGCCAGGCACACTCCCATGCAGGAGTGACAGAGCAGTGAGCCAAAACCCC[TC]ACCCCTGGAAAAGCTCATGTTTTG
7234 IS [TC] AGACGCCCACCCAGGGAGGCAAGCAA ctg15907 6
7506 I S GTGTGGGCGGGGAGACTTCAACCACCC
7506 P A S CGCGCCGAGGTTGAAAGATTTCAGAACCTGGGY
7506 P T S CGCGCCGAGGATGAAAGATTTCAGAACCTGGGY
7506 T A S GCTACCCAGGTTCTGAAATCTTTCAAGGTGGTTGAAGTCTCCCCGCCCACACCC
7506 T T S GCTACCCAGGTTCTGAAATCTTTCATGGTGGTTGAAGTCTCCCCGCCCACACCC
TTCATTCTGGTTGAAGTCTCCCCCCGCTACCCAGGTTCTGAAATCTTTCA[AT]GGTGGTTGAAGTCTCCCCGCCCACA
7506 IS [AT] CCCAGGTTCTGAAATCTTTCATTGT ctg22fin4 22
37641 I A TGGGGCCACGAGGGACATGACCCA
37641 P C A CGCGCCGAGGCGTCCAGCAGGGCY
37641 P T A CGCGCCGAGGTGTCCAGCAGGGCY
37641 T C A GGAGGCCCTGCTGGACGGGGTCATGTCCCTCGTGGCCCCACC
37641 T T A GGAGGCCCTGCTGGACAGGGTCATGTCCCTCGTGGCCCCACC
GAGACACTTTGGATTGGGACTGCAGGGTGGGGCCACGAGGGACATGACCC[CT]GTCCAGCAGGGCCTCCTGCTTGG
37641 IS [CT] CCCCACAGGTACAACTTGGGAGGACCA
37654 I A CCTGCTTGAGGGGATATTTGTGTCTGTCCCTCATACCT
37654 P G A CGCGCCGAGGGGCCACACAAACCTCC
37654 P A A CGCGCCGAGGAGCCACACAAACCTCCT
37654 T G A GCTGAGGAGGTTTGTGTGGCCGGTATGAGGGACAGACACAAATATCCCCTCAAGCAGGCA
37654 T A A GCTGAGGAGGTTTGTGTGGCTGGTATGAGGGACAGACACAAATATCCCCTCAAGCAGGCA
37654 IS [GA] ctggctcagtgcctgctgggggatttgtgtgtgtcccttccc[GA]gccacacaaacctcctcagcctggcccctgtcacgggtgcctcctagat ctg13206 14
45287 I A TGAGACAAATCTGAGAAACAAATGCGGTCCGAAAAGA
45287 P C A CGCGCCGAGGCGTGTGATTCAGTAAGAGAGATTT
45287 P T A CGCGCCGAGGTGTGTGATTCAGTAAGAGAGATTTTAA
45287 T C A TTTTTTAAAATCTCTCTTACTGAATCACACGCTTTTCGGACCGCATTTGTTTCTCAGATTTGTCTCATT
45287 T T A TTTTTTAAAATCTCTCTTACTGAATCACACACTTTTCGGACCGCATTTGTTTCTCAGATTTGTCTCATT
AAGCATATTTTTAATGAGACAAATCTGAGAAACAAATGCGGTCCGAAAAG[CT]GTGTGATTCAGTAAGAGAGATTTTAA
45287 IS [CT] AAAAACCAAAAAACCATACCTTCT ctg13206 14
45344 I A CCCAGAGCCCCCGGGGCACA
45344 P T A CGCGCCGAGGTGCAGAACAATTCTGGAGAG
45344 P C A CGCGCCGAGGCGCAGAACAATTCTGGAGAG
45344 T T A CAGACTCTCCAGAATTGTTCTGCAGTGCCCCGGGGGCTCTGGGCT
45344 T C A CAGACTCTCCAGAATTGTTCTGCGGTGCCCCGGGGGCTCTGGGCT
TCCCTGTGGGACAGGACCAAGGAGCACGGAGCCCAGAGCCCCCGGGGCAC[TC]GCAGAACAATTCTGGAGAGTCTG
45344 IS [TC] TCCACCCTGGCTTTCCGCTACACAGGC ctg14824 1
45372 I A TGGGCTTCACCAAGGTTTTGGCTGAAGCCTAGTAAATTAT
45372 P G A CGCGCCGAGGGCCAGCCCTTAGCTAATAACY
45372 P C A CGCGCCGAGGCCCAGCCCTTAGCTAATAACY
45372 T G A CACTGTTATTAGCTAAGGGCTGGCTAATTTACTAGGCTTCAGCCAAAACCTTGGTGAAGCCCATA
45372 T C A CACTGTTATTAGCTAAGGGCTGGGTAATTTACTAGGCTTCAGCCAAAACCTTGGTGAAGCCCATA
CAGCACAGCACAGCTGGATGCTGGAGAAACTATGGGCTTCACCAAGGTTTTGGCTGAAGCCTAGTAAATTA[GC]CCAG
CCCTTAGCTAATAACAGTGATAACTGGCCTGCCAGTTTCGGGGATCTGATGCCCTACATTAACTCACAAGACCCAAAT
45372 IS [GC] GCAGTTTAAGTCCTCTTTAACCATTGGGTGAAACTTCAACATTTTCAGCTCA
45373 I S CTCTTCCTTTCTATGTCTAATAATTTTTTATCAGATGTCAGACATTATACT
45373 P C S CGCGCCGAGGGTTTTGTATTACTGAGGGCTTG
45373 P T S CGCGCCGAGGATTTTGTATTACTGAGGGCTTGG
45373 T C S AAACCCAAGCCCTCAGTAATACAAAACGTATAATGTCTGACATCTGATAAAAAATTATTAGACATAGAAAGGAAGAG
45373 T T S AAACCCAAGCCCTCAGTAATACAAAATGTATAATGTCTGACATCTGATAAAAAATTATTAGACATAGAAAGGAAGAG
CCTTCCAAAGGAAAAAAAAAAAATGAAACCCAAGCCCTCAGTAATACAAAA[CT]GTATAATGTCTGACATCTGATAAAAAA
45373 IS [CT] TTATTAGACATAGAAAGGAAGAG ctg16335 2
45398 I A CCTCCCCTCTCCCCCTACCAGCTCTTTT
45398 P A A CGCGCCGAGGAGTTTCCAGTAGTCTTTTTGTCTGY
45398 P G A CGCGCCGAGGGGTTTCCAGTAGTCTTTTTGTCTY
45398 T A A ATGACAGACAAAAAGACTACTGGAAACTAAAGAGCTGGTAGGGGGAGAGGGGAGGGA
45398 T G A ATGACAGACAAAAAGACTACTGGAAACCAAAGAGCTGGTAGGGGGAGAGGGGAGGGA
NNNNNNNNNNNNNNNNNNNNNNGTCCCTCCCCTCTCCCCCTACCAGCTCTTT[AG]GTTTCCAGTAGTCTTTTTGTCTGTC
45398 IS [AG] ATTGCCATAGAAATACTTTTGTGGG ctg14932 16
45471 I S GCATGAGCCACCGAGCCCGGCTTACATTTTAT
45471 P T S CGCGCCGAGGATTATCAATTTTAAGAGGATGTTTTAATGGG
45471 P G S CGCGCCGAGGCTTATCAATTTTAAGAGGATGTTTTAATGG
45471 T T S CATTCCCATTAAAACATCCTCTTAAAATTGATAATTAAAATGTAAGCCGGGCTCGGTGGCTCATGCCT
45471 T G S CATTCCCATTAAAACATCCTCTTAAAATTGATAAGTAAAATGTAAGCCGGGCTCGGTGGCTCATGCCT
GAATATCAAATACATTCATTCCCATTAAAACATCCTCTTAAAATTGATAA[TG]TAAAATGTAAGCCGGGCTCGGTGGCTC
45471 IS [TG] ATGCCTGTAATCCTAGCACTCTG ctg53 14
45484 I S CTTCACTGGATACTCTCAGCGTGTTGAGTTTCATCACATATGTACCA
45484 P G S CGCGCCGAGGCGGCTGAGCGACCC
45484 P A S CGCGCCGAGGTGGCTGAGCGACCC
45484 T G S AAATGGGTCGCTCAGCCGGGTACATATGTGATGAAACTCAACACGCTGAGAGTATCCAGTGAAGTC
45484 T A S AAATGGGTCGCTCAGCCAGGTACATATGTGATGAAACTCAACACGCTGAGAGTATCCAGTGAAGTC
CTTTCCAGATCCATAAACCAAGGGAGTTTTGCTAAATGGGTCGCTCAGCC[GA]GGTACATATGTGATGAAACTCAACA
45484 IS [GA] CGCTGAGAGTATCCAGTGAAGTCTG ctg12325 11
48166 I S AGATTCTCACCATCGCTGATTCACACAAAAGCAT
48166 P T S CGCGCCGAGGATAAGTGAAAATCACACTGAAGATTTCY
48166 P C S CGCGCCGAGGGTAAGTGAAAATCACACTGAAGATTT
48166 T T S AGATGAAATCTTCAGTGTGATTTTCACTTATTGCTTTTGTGTGAATCAGCGATGGTGAGAATCTTC
48166 T C S AGATGAAATCTTCAGTGTGATTTTCACTTACTGCTTTTGTGTGAATCAGCGATGGTGAGAATCTTC
tatcatctaactgcagtgagatgaaatctcagtgtgtgatttcactt[TC]gctttgtgtgaatcagcgatggtgagaatcttctcactaccgtgtgcc ctg16318 19
48175 I S GGTCCCAAGATAGAATGTGCAAGAACCAGACATTGCGT
48175 P C S CGCGCCGAGGGAAGGCTATGCCTGGAC

FIGURE 129D



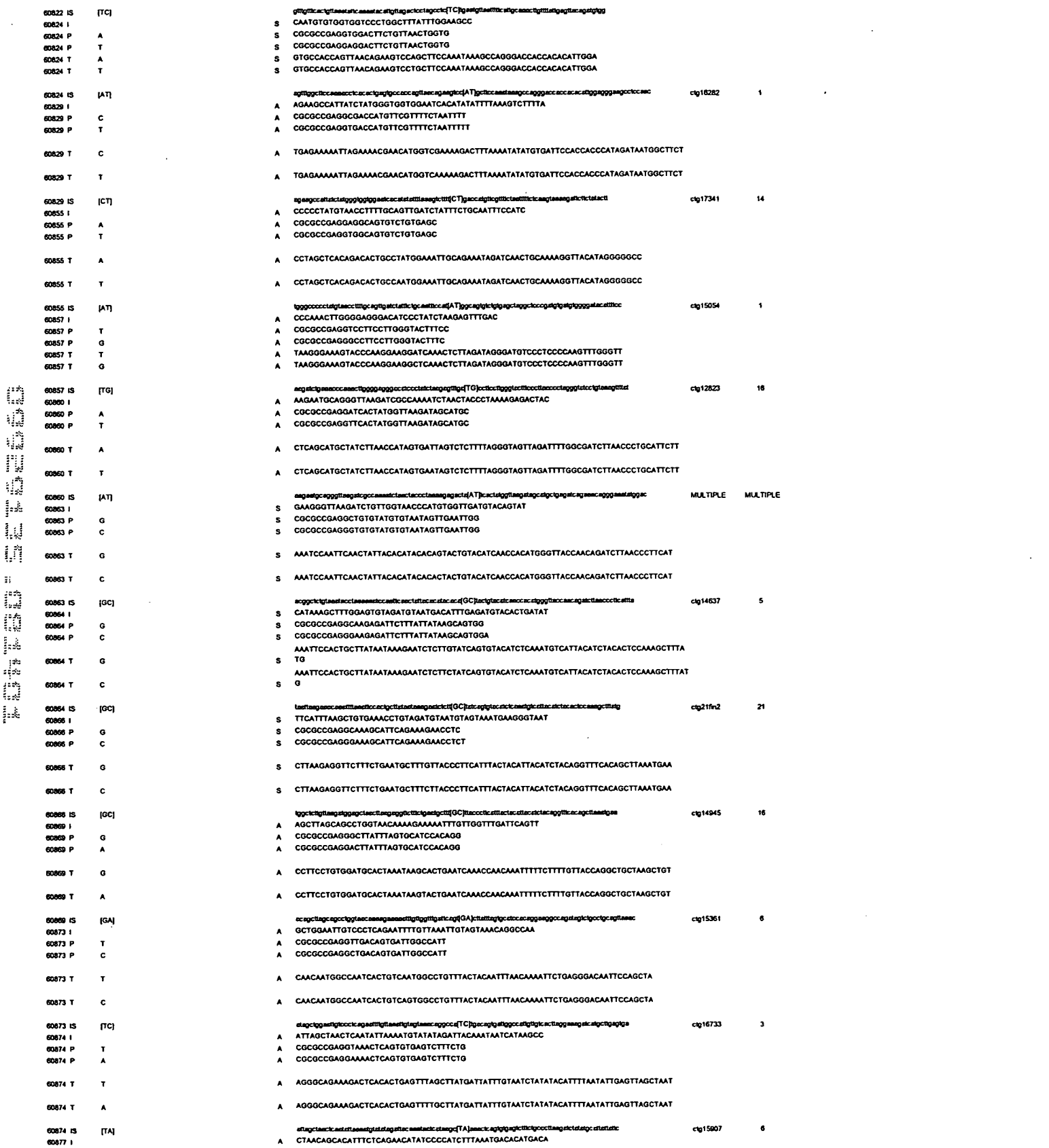




FIGURE 129D

60677 P	T	A	CGCGCCGAGGTGTACATAAATATACATACATGCGGA			
60677 T	C.	A	TTTGTCCGCATGTATGTATATTTATGTACGGTCATGTGTCATTTAAAGATGGGGATATGTTCTGAGAAATGTGCTGTTA G			
60677 T	T	A	TTTGTCCGCATGTATGTATATTTATGTACAGTCATGTGTCATTTAAAGATGGGGATATGTTCTGAGAAATGTGCTGTTA G			
60677 IS	[CT]		ctaacagcacattctcagaacatatccccatcttaaatgacccatgac[CT]gtacataaatatacatacatgcggacaaaaaccaaaaggatatcatttcag	ctg14243	19	
60921 I		S	CTTCCTGCTCTCAGTCAGGAATGTTCCCTGATGAGACA			
60921 P	A	S	CGCGCCGAGGTGAGCTCTGCTTCCTTCC			
60921 P	G	S	CGCGCCGAGGCGAGCTCTGCTTCCTTC			
60921 T	A	S	AAGAGGAAGGAAGCAGAGCTCAGTCTCATCAGGGAACATTCCTGACTGAGAGCAGGAAGCC			
60921 T	G	S	AAGAGGAAGGAAGCAGAGCTCGGTCTCATCAGGGAACATTCCTGACTGAGAGCAGGAAGCC			
60921 IS	[AG]		ggggaacccatgagcccagactacccaaaggaagaggaaggaagcgcagagctc[AG]gtctctctcagggaccatcctgactgagagcaggaagccctggcaacact	ctg17241	X	
60922 I		S	AAGCATGAAACACAATCCCTGTCCTAAACGACTTCTAGCCT			
60922 P	C	S	CGCGCCGAGGGAGAAGGGAAAACAAACCAATAAG			
60922 P	G	S	CGCGCCGAGGCAGAAGGGAAAACAAACCAATAAG			
60922 T	C	S	TTGGCTTATTGGTTTGTTTTCCCTTCTCGGCTAGAAGTCGTTTAGGACAGGGATTGTGTTTCATGCTTCA			
60922 T	G	S	TTGGCTTATTGGTTTGTTTTCCCTTCTGGGCTAGAAGTCGTTTAGGACAGGGATTGTGTTTCATGCTTCA			
60922 IS	[CG]		ctcccttctccctcctagcaattggcttattggttgtttccctct[CG]ggctcgaagtcgtttaggacagggattgtgtttcatgcttcactatccc	ctg15907	6	
60927 I		S	GCAGCCTCCTGACAGGGATGCAGGGT			
60927 P	C	S	CGCGCCGAGGGGATTGTGCACGCAGC			
60927 P	T	S	CGCGCCGAGGAGATTGTGCACGCAGC			
60927 T	C	S	GAGCGCTGCGTGCACAATCCCCCTGCATCCCTGTCAGGAGGCTGCGG			
60927 T	T	S	GAGCGCTGCGTGCACAATCTCCCTGCATCCCTGTCAGGAGGCTGCGG			
60927 IS	[CT]		aggcgggaaacccctcgtgggaaaaagctgagcgctgcgtgccacatc[CT]ccctgcatcccctgtcaggaggctgcggccacccattgcctggcgggtgagg	ctg15907	6	
60969 I		A	CCAGAGGGTGTTTAAACAGGGCCACGGGAT			
60969 P	A	A	CGCGCCGAGGAAAGATACAATATGAGATCAGGGATG			
60969 P	G	A	CGCGCCGAGGGAAGATACAATATGAGATCAGGGATG			
60969 T	A	A	TATCCATCCCTGATCTCATATTGTATCTTTTCCCGTGGCCCTGTTTAAACACCCTCTGGTT			
60969 T	G	A	TATCCATCCCTGATCTCATATTGTATCTTCTCCCGTGGCCCTGTTTAAACACCCTCTGGTT			
60969 IS	[AG]		ggcagagagccagatgggagaacccagagggtgttaaacagggccacgggat[AG]aagatacaatatgagatcagggatgggatattgagttctagagaaagaata	ctg15907	6	
60982 I		A	CCACAGAAATCCCTTTCCCTCCTGACTCATTAGATAATGGATACCATTCC			
60982 P	T	A	CGCGCCGAGGTCAACAAGTCAATCCAAATCAGC			
60982 P	G	A	CGCGCCGAGGGCAACAAGTCAATCCAAATCAG			
60982 T	T	A	AGGGGCTGATTTGGATTGACTTGTTGAGAATGGTATCCATTATCTAATGAGTCAGGAGGGAAAGGGATTTCTGTGGT			
60982 T	G	A	AGGGGCTGATTTGGATTGACTTGTTGCGAATGGTATCCATTATCTAATGAGTCAGGAGGGAAAGGGATTTCTGTGGT			
60982 IS	[TG]		accacagaaatcccttcccctcctgactcattagataatggatacca[TG]caacaagtcaatccaaatcagccccttaaggagaaccaaattaaggttag	ctg15907	6	
60998 I		A	TTCTCTGGAAAATAAAAGTAATAAGAGATGCCAAAGTTCCAGTGTTGGCTC			
60998 P	G	A	CGCGCCGAGGGAAGAAACAGTGGTTACCCTG			
60998 P	T	A	CGCGCCGAGGTAAGAAACAGTGGTTACCCTG			
60998 T	G	A	CCACCAGGGTAACCACTGTTTCTTCAGCCAACACTGGAACTTTGGCATCTCTTATTACTTTTATTTTCCAGAGAA			
60998 T	T	A	CCACCAGGGTAACCACTGTTTCTTAAGCCAACACTGGAACTTTGGCATCTCTTATTACTTTTATTTTCCAGAGAA			
60998 IS	[GT]		ttctctggaaaataaaagtaataagagatgccaaagttccagtgttggc[GT]aagaaccagtggttaccctggtgggttttttgttttgctttgctcccc	ctg15907	6	
61005 I		S	GACCCAGGCAGGTCAGACAAAAACCTGTTTCAGAT			
61005 P	T	S	CGCGCCGAGGAACTGATGTAGAGAATGAGAGGAY			
61005 P	C	S	CGCGCCGAGGGACTGATGTAGAGAATGAGAGGAY			
61005 T	T	S	CACTTCCTCTCATTCTCTACATCAGTTTCTGAAACAGGTTTTTGTCTGACCTGCCTGGGTCTC			
61005 T	C	S	CACTTCCTCTCATTCTCTACATCAGTCTCTGAAACAGGTTTTTGTCTGACCTGCCTGGGTCTC			
61005 IS	[TC]		gaagcatctcttcccttggagagaccacttcctctcattctctaccctcagt[TC]tctgacccaggttttgtctgacctgcctgggtctcacgcccacccctgtg	ctg15907	6	
61013 I		S	TCTTGTAGCAGAGGAGTGGGAAGTCTCAGGATAGCACT			
61013 P	G	S	CGCGCCGAGGCGTTAGAATGTCTTGGCAAGA			
61013 P	T	S	CGCGCCGAGGAGTTAGAATGTCTTGGCAAGAAT			
61013 T	G	S	CTGGATTCTTGCCAAGACATTCTAACGGTGCTATCCTGAGACTTCCCACTCCTCTGCTACAAGACA			
61013 T	T	S	CTGGATTCTTGCCAAGACATTCTAACTGTGCTATCCTGAGACTTCCCACTCCTCTGCTACAAGACA			
61013 IS	[GT]		gttaccccctctactacctcatggctctgccaagacatctaac[GT]gtgctctcctgagacttcccactcctctgctacaagacagtctattcct	ctg15907	6	
61033 I		A	TGGAGGTTTCCTAAAAGATATTCAGCTCTTCCATTATTAGATACCCTAGGT			
61033 P	C	A	CGCGCCGAGGCAGAGCTTTTCAAACTATTTGTGG			
61033 P	A	A	CGCGCCGAGGAAGAGCTTTTCAAACTATTTGTGG			
61033 T	C	A	TTCACCACAAATAGTTTGAAAAGCTCTGCCTAGGGTATCTAATAATGGAAGAGCTGAATATCTTTTAGGAAACCTCCA			
61033 T	A	A	TTCACCACAAATAGTTTGAAAAGCTCTTCCTAGGGTATCTAATAATGGAAGAGCTGAATATCTTTTAGGAAACCTCCA			
61033 IS	[CA]		tggaggtttcctaaaagatattcagctcttccattattagatacccta[CA]ggagctttcaaactatttgtggtgaatgaccagttggcttgttgggtt	ctg15907	6	
61035 I		A	TGACTGGCTCCTTCACTGTATTCAGATATCCCATTCTCAGAGAAT			
61035 P	G	A	CGCGCCGAGGGTCTCCCTTCTCTGTGAAAC			
61035 P	A	A	CGCGCCGAGGATCTCCCTTCTCTGTGAAACC			
61035 T	G	A	GCTAGGTTTCACAGAGAAGGGAGACTTCTCTGAGAATGGGATATCTGAATACAGTGAAGGAGCCAGTCATG			
61035 T	A	A	GCTAGGTTTCACAGAGAAGGGAGATTTCTCTGAGAATGGGATATCTGAATACAGTGAAGGAGCCAGTCATG			
61035 IS	[GA]		attccatgactggctcctttcactgttctcagatatcccatttctcagagaa[GA]ctcccttctctgtgaaacctagcagcttttctcactttctatcctctta	ctg25099	7	
61036 I		A	GTAATTCCCAGTATTCTGTAGTATTAACAATGAGACTTAAAGTACTGGTGT			
61036 P	G	A	CGCGCCGAGGGAGAAATTAAATTTGTCCCTTTCATTTATC			
61036 P	A	A	CGCGCCGAGGAAGAAATTAAATTTGTCCCTTTCATTTATC			
61036 T	G	A	AAAAGATAAATGAAAGGGACAAATTTAATTTCTCCACCAGTACTTTAAGTCTCATTGTTAATACTACAGAATACTGGGAA TTAC			
61036 T	A	A	AAAAGATAAATGAAAGGGACAAATTTAATTTCTTCACCAGTACTTTAAGTCTCATTGTTAATACTACAGAATACTGGGAA TTAC			
61036 IS	[GA]		gtaattcccagtattctgtagtattaacaatgagacttaaagtactggtg[GA]agaacttaaatttgtccctttcatttatctttactaaagcactttaaagt	ctg19247	7	
61041 I		S	TTCATTACAGTATTGCAAGGATTAGATTAATATATAAAACACAATTTAGAT			
61041 P	G	S	CGCGCCGAGGCCATTACTTGACACAAACTGC			
61041 P	T	S	CGCGCCGAGGACATTACTTGACACAAACTGCT			

61041 T	G	S	ACTGAGCAGTTTGTGTCAAGTAATGGTCTAAATTGTGTTTTATATATTAATCTAATCCTTGCAATACTGTAATGAA				
61041 T	T	S	ACTGAGCAGTTTGTGTCAAGTAATGTTCTAAATTGTGTTTTATATATTAATCTAATCCTTGCAATACTGTAATGAA				
61041 IS	[GT]		ggctaatattaatatctctaactctactgagcagtttgtgtgtcaagtaatg[GT]ctaaattgtgtttttatatattaatctaatccttgcaatactgtaatgaa	MULTIPLE	12		
61052 I		S	TCCCTGGAATTCATTACCTGCACAAAGTGTAGTCTCCAGAT				
61052 P	G	S	CGCGCCGAGGCCTTGAGTGCTGCCTC				
61052 P	T	S	CGCGCCGAGGACTTGAGTGCTGCCTCT				
61052 T	G	S	AAATAGAGGCAGCACTCAAGGTCTGGAGACTACACTTTGTGCAGGTAATGAATTCCAGGGAAA				
61052 T	T	S	AAATAGAGGCAGCACTCAAGTTCTGGAGACTACACTTTGTGCAGGTAATGAATTCCAGGGAAA				
61052 IS	[GT]		agtctaaacccatcaattctagtaaaataaaaatagagggcagcactcaag[GT]ctgggactacacttgtgcaggtaatgaattccagggaaaagcttggg	ctg15064	7		
61065 I		S	CCCAGTTCCTCTCCATATGGGCCCCATCAA				
61065 P	G	S	CGCGCCGAGGCAGGGCTGTTCCTGACA				
61065 P	A	S	CGCGCCGAGGTAGGGCTGTTCCTGACAG				
61065 T	G	S	GCAGCTGTCAGGAACAGCCCTGTGATGGGGCCCATATGGAGAGGAACTGGGGT				
61065 T	A	S	GCAGCTGTCAGGAACAGCCCTATGATGGGGCCCATATGGAGAGGAACTGGGGT				
61065 IS	[GA]		tctgggtcaccttggtccaggggaatccgggcagctgtgcaggaacagcccc[GA]tgatggggcccatatgggagaggaactgggggtctcccccacaaatagccagca	ctg14033	7		
61081 I		A	CAGCTTGTGTGTGTCCCGTGTCTCTGTGACTT				
61081 P	A	A	CGCGCCGAGGAACTGATGTGACCAGAACCT				
61081 P	G	A	CGCGCCGAGGGACTGATGTGACCAGAACC				
61081 T	A	A	TTTGAGGTTCTGGTCACATCAGTTAGTCACAGAGACACGGGACACACACAAGCTGCT				
61081 T	G	A	TTTGAGGTTCTGGTCACATCAGTCAGTCACAGAGACACGGGACACACACAAGCTGCT				
61081 IS	[AG]		actagacggcaatacccaagcagctgtgtgtgtgcccgtgtctctgtgtgactAGjactgatgtgaccagaacctcaaaggcagcacggatgatttgtctcacca	ctg13010	2		
61082 I		A	TCACAGACTGAGCTCTGCAATCAGGTGAATCACTTTTGATGTAT				
61082 P	A	A	CGCGCCGAGGATTTTGGTTTCTAAAGGAATAGTGAC				
61082 P	G	A	CGCGCCGAGGGTTTTGGTTTCTAAAGGAATAGTGAC				
61082 T	A	A	CCATGTCACTATTCCTTTAGAAACCAAAATTACATCAAAAGTGATTCACCTGATTGCAGAGCTCAGTCTGTGAAG				
61082 T	G	A	CCATGTCACTATTCCTTTAGAAACCAAAACTACATCAAAAGTGATTCACCTGATTGCAGAGCTCAGTCTGTGAAG				
61082 IS	[AG]		acccactcacagactgagctctgcactcaggtgactcacttttgtatgtaAGjttttggttctaaaggaatagtgactgggagagaacagaaaatatactt	ctg15684	5		
61092 I		S	CCCTGGGCTGATCACTCGGGGAAGAACTT				
61092 P	G	S	CGCGCCGAGGCAGACAAAGTTTCTCACCCTC				
61092 P	C	S	CGCGCCGAGGGAGACAAAGTTTCTCACCCTC				
61092 T	G	S	GCCTGAGGGTGAGAAACTTTGTCTGAGTTCTTCCCCGAGTGATCAGCCCAGGGGT				
61092 T	C	S	GCCTGAGGGTGAGAAACTTTGTCTCAGTTCTTCCCCGAGTGATCAGCCCAGGGGT				
61092 IS	[GC]		aaggcccagtaatttaaacccttgggcctgagggtgagaaacttgtct[GC]agttcttccccgagtgatcagcccaggggtaaggaaggaagccagaa				
4378 I		S	AGGCACAAATACACCCTGGCAGACATGCTA				
4378 P	G	S	ATGACGTGGCAGACCAGACTTATACCGAACCAC				
4378 P	A	S	CGCGCCGAGGTAGACTTATACCGAACCACA				
4378 T	G	S	TGGCTGTGGTTCGGTATAAGTCTGAGCATGTCTGCCAGGGTGTATTTGTGCCTGT				
4378 T	A	S	TGGCTGTGGTTCGGTATAAGTCTAAGCATGTCTGCCAGGGTGTATTTGTGCCTGT				
4378 IS	[GA]		TGTGCCGGATGGCTTCTGTGTGAGAGCGCGCGCGAGTGTGCATGTCGGTGAGCTGGGAGGGTGTGTCTCAGTGTCT ATGGCTGTGGTTCGGTATAAGTCT[GA]AGCATGTCTGCCAGGGTGTATTTGTGCCTGTATGTGCGTGCCTCGGTGGG CACTCTCGTTTCCTTCCGAATGTGGGGCAGTGCCGGTGTGCTGCCCTCTG	ctg15907	6	ADRB2	
4887 I		A	GTCCGGAACGACAACTCCTCCCGCTTA				
4887 P	C	A	ATGACGTGGCAGACCGTGAGTGGTCCCTG				
4887 P	T	A	CGCGCCGAGGTGTGAGTGGTCCCTG				
4887 T	C	A	AGGTCAGGGACCACTCACGAAGCGGGAGGAGTTGTCGTTCCGGACGG				
4887 T	T	A	AGGTCAGGGACCACTCACAAAGCGGGAGGAGTTGTCGTTCCGGACGG				
4887 IS	[CT]		CCCTGCTCTGGAGGCCTTTGGCAATGCCAAGACCGTCCGGAACGACAACTCCTCCCGCTT[CT]GTGAGTGGTCCCTG ACCTTGGCCTTGGGACTTGGACTGGTGGAGGAATGGTCTCAGATAT				
5290 I		S	CCCCCAAGGTGCATAGTAGGTTTATTTGAGGACTGAAA				
5290 P	A	S	CGCGCCGAGGTTCACATCTTATACCTGTTTATTTCY				
5290 P	G	S	ATGACGTGGCAGACCTCACATCTTATACCTGTTTATTTCY				
5290 T	A	S	ATGAGAAATAAACAGGTATAAGATGTGAATTCAGTCCTCAAATAAACCTACTATGCACCTTGGGGGAA				
5290 T	G	S	ATGAGAAATAAACAGGTATAAGATGTGAGTTCAGTCCTCAAATAAACCTACTATGCACCTTGGGGGAA				
5290 IS	[AG]		AGCACCTGTCACGTCCTGCAGTAGAAAGTTCCATGAGAAATAAACAGGTATAAGATGTGA[AG]TTCAGTCCTCAAATAA ACCTACTATGCACCTTGGGGGAAAGCCAACATGCAATGGCATAG	ctg16920	19		
5347 I		S	GCAAGCTTTCGAGCAATCAGGCCTGGAT				
5347 P	C	S	ATGACGTGGCAGACGGGGAAAAAGCAGGGY				
5347 P	T	S	CGCGCCGAGGAGGGAAAAAGCAGGGAY				
5347 T	C	S	TTTCTCCCTGCTTTTTCCCCTCCAGGCCTGATTGCTCGAAAGCTTGCCC				
5347 T	T	S	TTTCTCCCTGCTTTTTCCCTTCCAGGCCTGATTGCTCGAAAGCTTGCCC				
5347 IS	[CT]		ACTCCCTGTCCCCACTTTCTCCCATGCAAACTTCATCTCTTTTTCTCCCTGCTTTTTCCC[CT]TCCAGGCCTGATTGCT CGAAAGCTTGCCCTTGCTCAGCTGCGCCAGGAGAGGTGAAGTTT	ctg22fin4	22		
5404 I		A	TCTGCCTGTTGGCGGGCACAAGCA				
5404 P	C	A	ATGACGTGGCAGACCTCAGTGTCCTGTGGTY				
5404 P	T	A	CGCGCCGAGGTTCAGTGTCCTGTGGTY				
5404 T	C	A	ACTCACCACAGGACACTGAGGCTTGTGCCCGCCAACAGGCAGAAC				
5404 T	T	A	ACTCACCACAGGACACTGAAGCTTGTGCCCGCCAACAGGCAGAAC				
5404 IS	[CT]		GCAATGCATCGCCGGAGACTGGCCCTGGGTCTGGGGTTCTGCCTGTTGGCGGGCACAAGC[CT]TCAGTGTCCTGTG GTGAGTCTGCCCCACGGAGCTCCCCCTGTCTCTATCCCCACCCAGGA				
5487 I		A	CCACCTCCTCCCACGTCCCACTCAT				
5487 P	G	A	ATGACGTGGCAGACGCTCCACCCCACAGY				
5487 P	A	A	CGCGCCGAGGACTCCACCCCACAGY				
5487 T	G	A	GCTGCTGTGGGGTGGAGCTGAGTGGGACGTGGGAGGAGGTGGCG				
5487 T	A	A	GCTGCTGTGGGGTGGAGTTGAGTGGGACGTGGGAGGAGGTGGCG				
5487 IS	[GA]		TTGGCGGGGGTCCAAGGGGTCTTCCCATCTAACTCGCCACCTCCTCCCACGTCCCACTCA[GA]CTCCACCCCACAGC AGCCAAGAAGCCAGGGCATCACTTGACCTTCCGCTGCGTCAGTCTC	ctg15064	7		
5931 I		S	CCCGAGTTTGAGGAAGAGGAGGAGGAGGAGT				
5931 P	T	S	CGCGCCGAGGAAAGAGGAGGAGATAGCCY				
5931 P	C	S	ATGACGTGGCAGACGAAGAGGAGGAGATAGCCY				
5931 T	T	S	CAGTGGCTATCTCCTCCTCTTTCTCCTCCTCCTCCTCTTCCTCAAACTCGGGTT				
5931 T	C	S	CAGTGGCTATCTCCTCCTCTTCCTCCTCCTCCTCCTCTTCCTCAAACTCGGGTT				
5931 IS	[TC]		CTGTGTAGGTCTCTACTGTTGTGAAGGGGAATGCCTGGCCAGTGGCTATCTCCTCCTCTT[TC]CTCCTCCTCCTCCTC TTCCTCAAACTCGGGTTCCAGCTGGGTCTCAAACTCAGGCTCCAA	ctg15064	7		
6039 I		S	CGGGGGTGCCCGGGCATTA				
6039 P	G	S	ATGACGTGGCAGACCGGAGGCCGCC				
6039 P	A	S	CGCGCCGAGGTGGAGGCCGCCA				

FIGURE 129D

6039 T	G	S	CAGCTGGCGGCCTCCGAATGCCCGGGCACCCCCGCC				
6039 T	A	S	CAGCTGGCGGCCTCCAAATGCCCGGGCACCCCCGCC				
6039 IS	[GA]		CCAGTGCTGGACACGTAGGAGTTCTCCTGCGGGGAAGGGGGGATGCAGCTGGCGGCCTCC[GA]AATGCCCGGGCA CCCCCGCCACCACTGCCTGCAGCTTCTCTAGCCTCTCGTACACCTGCA	ctg17207	19		
6105 I		A	TCTAGGCGTGGTACTTCACTTGGGGGGTC				
6105 P	T	A	CGCGCCGAGGTGGGGGAGGAGAGTY				
6105 P	G	A	ATGACGTGGCAGACGGGGGGAGGAGAGTY				
6105 T	T	A	CCCCACTCTCCTCCCCCAACCCCCCAAGTGAAGTACCACGCCTAGACC				
6105 T	G	A	CCCCACTCTCCTCCCCCCACCCCCCAAGTGAAGTACCACGCCTAGACC				
6105 IS	[TG]		AGCCAGCCAGAGCCCCTGTCGGCAGTGCCGGGTCTAGGCGTGGTACTTCACTTGGGGGGT[TG]GGGGGAGGAGAG TGGGGGCTTTGAGGAGCTGCTCCATCAGATGAGGAGACGGGGCCCCGA	ctg25099	7		
6126 I		A	GAATTTTGTGGGCTGTGTCTGCCCACCGA				
6126 P	C	A	ATGACGTGGCAGACCCTCCGTGTATCTTTTGGY				
6126 P	T	A	CGCGCCGAGGTCTCCGTGTATCTTTTGGAY				
6126 T	C	A	TGTTTCCAAAAGATACACGGAGGCGGTGGGCAGACACAGCCCACAAAATTCAA				
6126 T	T	A	TGTTTCCAAAAGATACACGGAGACGGTGGGCAGACACAGCCCACAAAATTCAA				
6126 IS	[CT]		CTTTGTGCTTCCTGACATGTGCGCGGTGCTTTGAATTTTGTGGGCTGTGTCTGCCCACCG[CT]CTCCGTGTATCTTTT GGAAACATTTTACAGTGATCCATATATGTTCTAGCGTTCTGCCCT				
6290 I		A	GGGCCCAGGACTGGTGAAGCCTTCT				
6290 P	G	A	ATGACGTGGCAGACGGAGACCCTGTCCCY				
6290 P	A	A	CGCGCCGAGGAGAGACCCTGTCCCTY				
6290 T	G	A	GGTGAGGGACAGGGTCTCCGAAGGCTTCACCAGTCCTGGGCCCGA				
6290 T	A	A	GGTGAGGGACAGGGTCTCTGAAGGCTTCACCAGTCCTGGGCCCGA				
6290 IS	[GA]		CACAGGGGTCCTGTCCCAGGTGCAGCTGCAGGAGTCGGGCCCAGGACTGGTGAAGCCTTC[GA]GAGACCCTGTCCC TCACCTGCACTGTCTCTGGTGGCTCCGTCAGCAGTGGTAGTTACTAC	ctg19175	19		
6642 I		S	GCTCTGGGGTCCCACCTGCTCCTGA				
6642 P	A	S	CGCGCCGAGGTAGGCAGAGCCAAGCY				
6642 P	G	S	ATGACGTGGCAGACCAGGCAGAGCCAAGY				
6642 T	A	S	TGCTGCTTGGCTCTGCCTACAGGAGCAGGTGGGACCCCAGAGCCT				
6642 T	G	S	TGCTGCTTGGCTCTGCCTGCAGGAGCAGGTGGGACCCCAGAGCCT				
6642 IS	[AG]		GCAATTAAAGTTTCTCTATAAAACCAAGACCTCTGTGTGTCATGCTGCTTGGCTCTGCCT[AG]CAGGAGCAGGTGGGA CCCCAGAGCCTGCATGGACAGTCAGTGGGGTCCCAGCCTGCCCTG	ctg53	14		
6653 I		S	CCAGCTGTCTCTAGGGGTTGCCTGAGAGTGT				
6653 P	C	S	ATGACGTGGCAGACGTGTCTTGTGTGCTTATTTCY				
6653 P	G	S	CGCGCCGAGGCTGTCTTGTGTGCTTATTTCY				
6653 T	C	S	AGAAGAAATAAGCACACAAGACACCACTCTCAGGCAACCCCTAGAGACAGCTGGTC				
6653 T	G	S	AGAAGAAATAAGCACACAAGACAGCACTCTCAGGCAACCCCTAGAGACAGCTGGTC				
6653 IS	[CG]		GCAAGTTATCCAGCTGTACCTGCAGAAAACAGTTAAGAGAAGAAATAAGCACACAAGACA[CG]CACTCTCAGGCAACC CCTAGAGACAGCTGGTCCTTCTGAAGGAGCCCAGGCAAAAGACAG	ctg15128	17		
6696 I		A	GCCTCCTCTATGATCTCTGACTTCTCACCCCAGTT				
6696 P	G	A	ATGACGTGGCAGACGCCTTCATTCCTGGCY				
6696 P	A	A	CGCGCCGAGGACCTTCATTCCTGGCTY				
6696 T	G	A	ATACAGCCAGGAATGAAGGCACTGGGGTGAGAAGTCAGAGATCATAGAGGAGGCTC				
6696 T	A	A	ATACAGCCAGGAATGAAGGTACTGGGGTGAGAAGTCAGAGATCATAGAGGAGGCTC				
6696 IS	[GA]		AGTCCCTGACCCCACAACTCTCAAGAGCCTCCTCTATGATCTCTGACTTCTCACCCCAGT[GA]CCTTCATTCCTGGCT GTATTTGGCAGTGACAGAGTGAACAGCCCACTTCTAAAGTTACTC	ctg15907	6		
6898 I		A	GCATGTGGTTTGCGCCCCAGGGT				
6898 P	G	A	ATGACGTGGCAGACGTGGGGATTGGGCAY				
6898 P	A	A	CGCGCCGAGGATGGGGATTGGGCATY				
6898 T	G	A	AGCCATGCCCAATCCCCACCCCTGGGGCGCAAACCACATGCCT				
6898 T	A	A	AGCCATGCCCAATCCCCATCCCTGGGGCGCAAACCACATGCCT				
6898 IS	[GA]		AAGAAGCTGCTTCTGTTTCCTCTGCAGATACAGGTCAGGCATGTGGTTTGCGCCCCAGGG[GA]TGGGGATTGGGCAT GGCTGCCCAGCCCCCTCTCCACCCTACAATACCATTCTCTTATCTC	ctg15064	7		
11068 I		A	GGACGGTTTGGTCAGACTATAAATAAGATAGGTTTGAGGGCATAAAATT				
11068 P	G	A	ATGACGTGGCAGACGTATGACCACTGGGGCY				
11068 P	A	A	CGCGCCGAGGATATGACCACTGGGGCY				
11068 T	G	A	TCCGGCCCCAGTGGTCATACATTTTATGCCCTCAAACCTATCTTATTTATAGTCTGACCAAACCGTCCCC				
11068 T	A	A	TCCGGCCCCAGTGGTCATATATTTTATGCCCTCAAACCTATCTTATTTATAGTCTGACCAAACCGTCCCC				
11068 IS	[GA]		TGAGCAGTCTGGGGACGGTTTGGTCAGACTATAAATAAGATAGGTTTGAGGGCATAAAAT[GA]TATGACCACTGGGGC CGGAGTATCTATTTCTACATAGTCAGCTACTTCTGAAACTGCAGC	ctg15064	7	PACE4	
11259 I		S	TGCCAGGTTTCGTCTCTGGGCAGAACTGA				
11259 P	A	S	CGCGCCGAGGTCCCATGCTCTTTGTCTY				
11259 P	G	S	ATGACGTGGCAGACCCCCATGCTCTTTGTCY				
11259 T	A	S	GTGCAGACAAAGAGCATGGGACAGTTCTGCCCAGAGACGAAACCTGGCACC				
11259 T	G	S	GTGCAGACAAAGAGCATGGGGCAGTTCTGCCCAGAGACGAAACCTGGCACC				
11259 IS	[AG]		CTTGGCGTGGCACTTACACCAGCTGCCGCCCCCTCCTCCCGTGCAGACAAAGAGCATGGG[AG]CAGTTCTGCCCAGA GACGAAACCTGGCACCTGTTGGCCAGGACGCGTTTTTGCCAGCATT				
11291 I		A	GGTGTTTCCACTTGTTCTCAGATTCCTAGATGATAGCGCT				
11291 P	G	A	ATGACGTGGCAGACGCTGCGCTTAAGAGAAGY				
11291 P	A	A	CGCGCCGAGGACTGCGCTTAAGAGAAGTY				
11291 T	G	A	GGAAACTTCTCTTAAGCGCAGCGCGCTATCATCTAGGAATCTGAGAACAAGTGGAAACACCTG				
11291 T	A	A	GGAAACTTCTCTTAAGCGCAGTGCGCTATCATCTAGGAATCTGAGAACAAGTGGAAACACCTG				
11291 IS	[GA]		AAGAGGTATGCCTAATGAGCAGGTGTTTCCACTTGTTCTCAGATTCCTAGATGATAGCGC[GA]CTGCGCTTAAGAGAA GTTTCCTTCAGGGGATTGTTTTTAGAAAGCATCTGAGGGTCTGTT	ctg19247	7		
12191 I		A	GTGACTCTTCAGTGTCGCTCTCGTCTTGGGTTTAAA				
12191 P	T	A	CGCGCCGAGGTGAATTCAGTCTGTCCAAAGY				
12191 P	C	A	ATGACGTGGCAGACCGAATTCAGTCTGTCCAAAY				
12191 T	T	A	TCTTCTTTGGACAGACTGAATTCATTAAACCCAAGACGAGAGCGACACTGAAGAGTCACAT				
12191 T	C	A	TCTTCTTTGGACAGACTGAATTCGTTAAACCCAAGACGAGAGCGACACTGAAGAGTCACAT				
12191 IS	[TC]		CACTGTGGTGTCTGAAGGACAACATGTGACTCTTCAGTGTCGCTCTCGTCTTGGGTTTAA[TC]GAATTCAGTCTGTCC AAAGAAGACGGGATGCCTGTCCCTGAGCTCTACAACAGAATATTC	ctg15422	X		
12767 I		A	GAGGGGCTGGGGGGTGAGGGT				
12767 P	G	A	ATGACGTGGCAGACGGAAGCTGTGTGGCY				
12767 P	A	A	CGCGCCGAGGAGAAGCTGTGTGGCTY				
12767 T	G	A	GGGGAGCCACACAGCTTCCCCCTCACCCCCCAGCCCCTCCC				
12767 T	A	A	GGGGAGCCACACAGCTTCTCCCTCACCCCCCAGCCCCTCCC				
12767 IS	[GA]		CCAGGAAGCACAAGAAAATGGAGCACAGGCAGAGGCCCGGGAGGGGCTGGGGGGTGAGGG[GA]GAAGCTGTGTGG CTCCCCCACCAATAATACAAAGCTGGAGTCAAATGCAAATCTGGGGGT	ctg15422	X		
13614 I		S	CCACGGTCGTGACCCAAACTTAAACCTGGGA				
13614 P	G	S	ATGACGTGGCAGACCAGAACCCATGTGAAAGAY				
13614 P	A	S	CGCGCCGAGGTAGAACCCATGTGAAAGACY				
13614 T	G	S	TCCCGTCTTTCACATGGGTTCTGCCCAGGTTTAAGTTTGGGTCACGACCGTGGAC				
13614 T	A	S	TCCCGTCTTTCACATGGGTTCTACCCAGGTTTAAGTTTGGGTCACGACCGTGGAC				
13614 IS	[GA]		CACACATTCAGAGCCCATTGATTCAGTTAGAACTTGCCTCCCGTCTTTCACATGGGTTCT[GA]CCCAGGTTTAAGTTTG GGTCACGACCGTGGACTTCTGGGTCACTGTATCATCATCTGTGG	ctg13715	13		
14204 I		A	GACATGAAGCCCACCACCAACACAGGAGAT				
14204 P	A	A	CGCGCCGAGGAAAGCCCCACGGCY				



FIGURE 129D

14204 P	G	A	ATGACGTGGCAGACGAAGCCCCACGGCY					
14204 T	A	A	CGCCGCCGTGGGGCTTTTCTCCTGTGTTGGTGGTGGGCTTCATGTCGG					
14204 T	G	A	CGCCGCCGTGGGGCTTCTCTCCTGTGTTGGTGGTGGGCTTCATGTCGG					
14204 IS	[AG]		GGAACTGGTTCATCTTCCTGTGGGAGGGTCCGACATGAAGCCCACCACCAACACAGGAGA[AG]AAGCCCCACGGCG GCGGCGCGGATGGTGGGCAGGACTTCATCTGGGAGGGGCGCCTCAGA	ctg15804	2			
17082 I		A	GCACACCCTGAAAAGAATCCGGACAAGTCCCT					
17082 P	G	A	ATGACGTGGCAGACGTGAGACACATGAGGCY					
17082 P	A	A	CGCGCCGAGGATGAGACACATGAGGCCY					
17082 T	G	A	TTGGGGCCTCATGTGTCTCACGGGACTTGTCCGGATTCTTTTCAGGGTGTGCGG					
17082 T	A	A	TTGGGGCCTCATGTGTCTCATGGGACTTGTCCGGATTCTTTTCAGGGTGTGCGG					
17082 IS	[GA]		CAGCTCCCACTGCTGCAGGGGGTCTGACCGCACACCCTGAAAAGAATCCGGACAAGTCCC[GA]TGAGACACATGAGG CCCCAAGCCCCCTGCCGAGCCCCCACCCTCACCCCCCACCCCCCGC	ctg15804	2			
18002 I		S	ACGCAGGTATATGCAAACCACACTCTTCTCCCATA					
18002 P	G	S	ATGACGTGGCAGACCCTGCTTCTCTCGGATY					
18002 P	A	S	CGCGCCGAGGTCTGCTTCTCTCGGATCY					
18002 T	G	S	GTAAGATCCGAGAGAAGCAGGATGGGAGAAGAGTGTGGTTTGCATATACCTGCGTTC					
18002 T	A	S	GTAAGATCCGAGAGAAGCAGAATGGGAGAAGAGTGTGGTTTGCATATACCTGCGTTC					
18002 IS	[GA]		AACTACGCTGACTGCCTCCTCGCCTACTCGGGGCTTATTGGTAAGATCCGAGAGAAGCAG[GA]ATGGGAGAAGAGTG TGGTTTGCATATACCTGCGTTCTTTCCATTGCGCCTTGCTGATGTC	ctg15064	7			
18079 I		A	GGGCAGGGACATGAGGGAAGTAGGCAC					
18079 P	G	A	ATGACGTGGCAGACGGGGAGAAGAAAGCTGAY					
18079 P	T	A	CGCGCCGAGGTGGGAGAAGAAAGCTGAY					
18079 T	G	A	GCAGTCAGCTTTCTTCTCCCCTGCCTACTTCCCTCATGTCCCTGCCCCA					
18079 T	T	A	GCAGTCAGCTTTCTTCTCCCATGCCTACTTCCCTCATGTCCCTGCCCCA					
18079 IS	[GT]		TAAACCCAAAAGGAGAGTACAGTGCATCAGAATGGGGCAGGGACATGAGGGAAGTAGGCA[GT]GGGAGAAGAAAGCT GACTGCATCAGGCAGGTCAACCAGCAGGGGGTTCTGTACCTCCTGT	ctg15804	2			
18719 I		S	GAAACACCGGAGGCGGCGGCT					
18719 P	G	S	ATGACGTGGCAGACCGTTGTGATAGAAGGCATAY					
18719 P	T	S	CGCGCCGAGGAGTTGTGATAGAAGGCATAGY					
18719 T	G	S	GGACCTATGCCTTCTATCACAACGGCCGCCGCCTCCGGTGTTTCCC					
18719 T	T	S	GGACCTATGCCTTCTATCACAACTGCCGCCGCCTCCGGTGTTTCCC					
18719 IS	[GT]		GTCGGGGCCTCCTGGCTCCTGGCCCGCATCCTGGCCTGGACCTATGCCTTCTATCACAAC[GT]GCCGCCGCCTCCG GTGTTTCCCGCAGCCCCGGAAACAGAACTGGTTCTTGGGTCACCTGG	ctg30	7	CYP4F8		
18963 I		A	CCGCTGAGGGGGGGGCATGTAGAACT					
18963 P	G	A	ATGACGTGGCAGACGGGGCTCCCCCAY					
18963 P	A	A	CGCGCCGAGGAGGGGCTCCCCCAY					
18963 T	G	A	TCAGTGGGGGAGCCCCGTTCTACATGCCCCCCCCTCAGCGGCC					
18963 T	A	A	TCAGTGGGGGAGCCCTGTTCTACATGCCCCCCCCTCAGCGGCC					
18963 IS	[GA]		GGGGAGAGGGGAGTCGGTCCTGTGGGTGCACAGGGCCGCTGAGGGGGGGGCATGTAGAAC[GA]GGGCTCCCCCAC TGAGACGGTCCTGGCAGTGGGGACACAGCTTAGCCGGCGTAGGAACCC	ctg30	7			
19206 I		S	AGTGGGACAGCTTTGCATACCTCTAGAAGTGTGCA					
19206 P	A	S	CGCGCCGAGGTTCTTCCTGGATGATTATCACY					
19206 P	G	S	ATGACGTGGCAGACCTCTTCCTGGATGATTATCACY					
19206 T	A	S	CCAAGTGATAATCATCCAGGAAGAAGCACACTTCTAGAGGTATGCAAAGCTGTCCCACTGC					
19206 T	G	S	CCAAGTGATAATCATCCAGGAAGAGGCACACTTCTAGAGGTATGCAAAGCTGTCCCACTGC					
19206 IS	[AG]		CATATAGGAACAAGTTTCTTTCCAGGCATCAAGGAGCCAAGTGATAATCATCCAGGAAGA[AG]GCACACTTCTAGAGG TATGCAAAGCTGTCCCACTGCAGGAACCTGCCCAGCAAGGAAGGA	MULTIPLE	19			
19685 I		S	GGTCTCGCATCATCTGGATTTCTTTGTCAGAGAGAGATCAAGA					
19685 P	A	S	CGCGCCGAGGTTAAAACGAAAAACTCAAGTTCAY					
19685 P	G	S	ATGACGTGGCAGACCTAAAACGAAAAACTCAAGTTCAY					
19685 T	A	S	ACAGTGAACTTGAGTTTTTCGTTTTAACTTGATCTCTCTCTGACAAAGAAATCCAGATGATGCGAGACCTG					
19685 T	G	S	ACAGTGAACTTGAGTTTTTCGTTTTAGCTTGATCTCTCTCTGACAAAGAAATCCAGATGATGCGAGACCTG					
19685 IS	[AG]		GCCTCCCTGACACCCAAGTTCATATTGCTCAGAAACAGTGAACTTGAGTTTTTCGTTTTA[AG]CTTGATCTCTCTCTGA CAAAGAAATCCAGATGATGCGAGACCTGATGAAGACAATACATG	ctg14243	19	TSBP		
21112 I		S	TGAACAAGAGAATCAGCCCTTCCCTTTCTGAGCACT					
21112 P	T	S	CGCGCCGAGGATGCAGAACCCGTGCY					
21112 P	C	S	ATGACGTGGCAGACGTGCAGAACCCGTGY					
21112 T	T	S	GAAGGCACGGGTTCTGCATGTGCTCAGAAAGGGAAGGGCTGATTCTCTTGTTCATT					
21112 T	C	S	GAAGGCACGGGTTCTGCACGTGCTCAGAAAGGGAAGGGCTGATTCTCTTGTTCATT					
21112 IS	[TC]		GAATTTTCTCCCTTAAAACTAGGTATTAGTTAAAAACCAGAAGAAGGCACGGGTTCTGCA[TC]GTGCTCAGAAAGGGAA GGGCTGATTCTCTTGTTCATTCAACAGATATTTATTGAACAGCA	ctg16564	19			
21141 I		A	TGAAACTCCAGAGAAAGCAGTTTGAGGCTTGTCCTCT					
21141 P	A	A	CGCGCCGAGGAGGGGCTTCAAGGACY					
21141 P	G	A	ATGACGTGGCAGACGGGGGCTTCAAGGAY					
21141 T	A	A	CCCAGTCCTTGAAGCCCCTGAGGACAAGCCTCAAACTGCTTTCTCTGGAGTTTCATA					
21141 T	G	A	CCCAGTCCTTGAAGCCCCCGAGGACAAGCCTCAAACTGCTTTCTCTGGAGTTTCATA					
21141 IS	[AG]		TGAAGTAAGATGAAGAAAAAAGTATGAAACTCCAGAGAAAGCAGTTTGAGGCTTGTCCTC[AG]GGGGCTTCAAGGACT GGGAGAAGTCACTGTATTCTGGCATCTTGCTTCTGTCTCCACTTC	ctg14007	17			
21576 I		A	GAGCAGGGACGGCGTGATTCAAACGGC					
21576 P	T	A	CGCGCCGAGGTATGGCGAGGCTTCGY					
21576 P	A	A	ATGACGTGGCAGACAATGGCGAGGCTTCGY					
21576 T	T	A	CTAACGAAGCCTCGCCATACCGTTTGAATCACGCCGTCCCTGCTCAG					
21576 T	A	A	CTAACGAAGCCTCGCCATTCCGTTTGAATCACGCCGTCCCTGCTCAG					
21576 IS	[TA]		GTCTGGGCTTTCTTCTAGAGGTACTGGGGTATCTGAGCAGGGACGGCGTGATTCAAACGG[TA]ATGGCGAGGCTTCG TTAGCAGGAAGGGGAGGAGAATCAAGAGGCAGAAACTGAAGGAGAG	ctg12475	11			
21600 I		A	GCAGGACTTCTATGGAGAAAACCTCAGCGCAGT					
21600 P	A	A	CGCGCCGAGGACACACTGGGCTCTCY					
21600 P	G	A	ATGACGTGGCAGACGCACACTGGGCTCTY					
21600 T	A	A	CTGTGAGAGCCCAGTGTGTCTGCGCTGAGGTTTTCTCCATAGAAGTCCTGCTT					
21600 T	G	A	CTGTGAGAGCCCAGTGTGCCTGCGCTGAGGTTTTCTCCATAGAAGTCCTGCTT					
21600 IS	[AG]		CTGTGAGGGCCAGGGAGCCGCATGGAAAGCAGGACTTCTATGGAGAAAACCTCAGCGCAG[AG]CACACTGGGCTCT CACAGCTGCCGAGAGCCTGGGCTGGTGTCCAAAGAGCCTCTCTGTCT	ctg14145	11			
21659 I		A	GGGTTTTCTCTCTTATAGTTTGTTGACACATGCTAAAAATGTCTTTGGAGAT					
21659 P	G	A	ATGACGTGGCAGACGAACTTCTGCCTGATAAACAY					
21659 P	A	A	CGCGCCGAGGAAACTTCTGCCTGATAAACAY					
21659 T	G	A	TGGGTGTTTATCAGGCAGAAGTTCTCTCCAAAGACATTTTTAGCATGTGTCAACAAACTATAAGAGAGAAAACCCAA					
21659 T	A	A	TGGGTGTTTATCAGGCAGAAGTTTTCTCCAAAGACATTTTTAGCATGTGTCAACAAACTATAAGAGAGAAAACCCAA					
21659 IS	[GA]		TTAAGCTTTGGGTTTTCTCTCTTATAGTTTGTTGACACATGCTAAAAATGTCTTTGGAGA[GA]AACTTCTGCCTGATAAA CACCCAATTCTAGACTGTGGGTGGATTTTCGAGCTGACGGTGG	ctg15064	7			
21696 I		S	GGGGTTCATCAGTATCCAGGTTCTTGTGGGCTT					
21696 P	C	S	ATGACGTGGCAGACGTGACAATCTGGTATACCATTY					
21696 P	T	S	CGCGCCGAGGATGACAATCTGGTATACCATTCY					
21696 T	C	S	ATGAGAATGGTATACCAGATTGTCACAGCCCACAAGAACCTGGATACTGATGAACCCCTT					
21696 T	T	S	ATGAGAATGGTATACCAGATTGTCATAGCCCACAAGAACCTGGATACTGATGAACCCCTT					

FIGURE 129D

				TGTATGTATAAGTTGTCTCTAAACTTGGGCAGTCCATGAGAATGGTATACCAGATTGTCA[CT]AGCCCACAAGAACCTG			
21696 IS	[CT]			GATACTGATGAACCCCTTTTTACAGGTGAAGAAACTTAAGGAAC			
21698 I			A	AGGAACTGTGAGAGGGGGACAAGGTGT			
21698 P	A		A	CGCGCCGAGGAAGCTTTCCTGGCCCY			
21698 P	G		A	ATGACGTGGCAGACGAGCTTTCCTGGCCCY			
21698 T	A		A	CCCAGGGCCAGGAAAGCTTCACCTTGTCCCCCTCTCACAGTTCCTAA			
21698 T	G		A	CCCAGGGCCAGGAAAGCTCCACCTTGTCCCCCTCTCACAGTTCCTAA			
				CTTAAGAGGCCAAATAGATGAATGGAAGAATTTTAGGAACTGTGAGAGGGGGACAAGGTG[AG]AGCTTTCCTGGCCC			
21698 IS	[AG]			TGGGAGGAAGCTGGCTGTGGTAGCGTAGCGCTCTCTCTCTCTGTCT			
21704 I			S	CCCTTTCCCATGTCCCAGCCCCCC			
21704 P	A		S	CGCGCCGAGGTTCCCGGGTAGCGY			
21704 P	C		S	ATGACGTGGCAGACGTCCCGGGTAGCGY			
21704 T	A		S	GGGACGCTACCCGGGAAGGGGGCTGGGACATGGGAAAGGGGA			
21704 T	C		S	GGGACGCTACCCGGGACGGGGGCTGGGACATGGGAAAGGGGA			
				GATTTCCATGATGTTTTCCATGAGTCCCCTGTTTGTTTCTGAAAGGGACGCTACCCGGGA[AC]GGGGGCTGGGACAT			
21704 IS	[AC]			GGGAAAGGGGAAGTTGTAGGCATAAAGTCAGGGGTTCCCTTTTTGG	ctg22fin4	22	
21705 I			A	GCAGCTCAGAGAGGGTGGGAGTGGGA			
21705 P	T		A	CGCGCCGAGGTCCAATGCACTTTGTTCTY			
21705 P	C		A	ATGACGTGGCAGACCCCAATGCACTTTGTTCTY			
21705 T	T		A	AGCCAGAACAAAGTGCATTGGACCCACTCCCACCCTCTCTGAGCTGCCA			
21705 T	C		A	AGCCAGAACAAAGTGCATTGGGCCCACTCCCACCCTCTCTGAGCTGCCA			
				GAAGCTCAGGGCCTGGCTCAGGTGGGGTCACTCTGGCAGCTCAGAGAGGGTGGGAGTGGG[TC]CCAATGCACTTTG			
21705 IS	[TC]			TTCTGGCTCTTCCAGGCTGGGAGAGCCTTTCAGGGGTGGGACACCCT	ctg22fin4	22	SCYD1
21796 I			S	CCTCCTCCCTGTCTGGGCAGGCCA			
21796 P	G		S	ATGACGTGGCAGACCAGGGCACCCTGCY			
21796 P	A		S	CGCGCCGAGGTAGGGCACCCTGCY			
21796 T	G		S	CCTGGCAGGGTGCCCTGGGCCTGCCCAGACAGGGAGGAGGCC			
21796 T	A		S	CCTGGCAGGGTGCCCTAGGCCTGCCCAGACAGGGAGGAGGCC			
				CTTCCTCCCCTGCCTTACACCCACCCACAGCCCAGGTGGAGCTGCCTGGCAGGGTGCCCT[GA]GGCCTGCCCAGAC			
21796 IS	[GA]			AGGGAGGAGGCCGTGGCCTGCTGGGCCTGGGCTCTTCTCACCCCGCT	ctg22fin4	22	
21869 I			A	ACTTCAGCCATGAGCCCAGAGTCATTCAGTCTCA			
21869 P	C		A	ATGACGTGGCAGACCGGACCTTGGTTTCCTY			
21869 P	T		A	CGCGCCGAGGTGGACCTTGGTTTCCTY			
21869 T	C		A	AAACAGGAAACCAAGGTCCGGAGACTGAATGACTCTGGGCTCATGGCTGAAGTCA			
21869 T	T		A	AAACAGGAAACCAAGGTCCAGAGACTGAATGACTCTGGGCTCATGGCTGAAGTCA			
				CTAGACCTAGGCCCTGGTTGGCCCCTGACTTCAGCCATGAGCCCAGAGTCATTCAGTCTC[CT]GGACCTTGGTTTCCT			
21869 IS	[CT]			GTTTATAAAGTGCAGGCAGTAATGATAGTGATACCGGCCTCACCT	ctg22fin4	22	
21990 I			S	TCTTTGAAGTCTGTGACAGAGCAGGGAGCCTCT			
21990 P	G		S	CGCGCCGAGGCTAGAAAAGCTTGAAAATATCTTTTGY			
21990 P	C		S	ATGACGTGGCAGACGTAGAAAAGCTTGAAAATATCTTTTGY			
21990 T	G		S	AAACCAAAAGATATTTTCAAGCTTTTCTAGGAGGCTCCCTGCTCTGTCACAGACTTCAAAGACC			
21990 T	C		S	AAACCAAAAGATATTTTCAAGCTTTTCTACGAGGCTCCCTGCTCTGTCACAGACTTCAAAGACC			
				GAGAGTTTGAAAAGAAAAATCTCTTTAAGTCAAACCAAAAGATATTTTCAAGCTTTTCTA[GC]GAGGCTCCCTGCTCTG			
21990 IS	[GC]			TCACAGACTTCAAAGACCCGTTCATTTAAGAAACACAATGCTAG	ctg22fin4	22	
22031 I			A	CCTCGTGCAGCTAGAGTGAGCCTTAGTAAGACAC			
22031 P	T		A	CGCGCCGAGGTCCAACACAGTTCTTAGAACY			
22031 P	A		A	ATGACGTGGCAGACACCAACACAGTTCTTAGAACY			
22031 T	T		A	CTTTGTTCTAAGAACTGTGTTGGATGTCTTACTAAGGCTCACTCTAGCTGCACGAGGGA			
22031 T	A		A	CTTTGTTCTAAGAACTGTGTTGGTTGTCTTACTAAGGCTCACTCTAGCTGCACGAGGGA			
				TATCCCCATGGAAATGGCACACACATCCCTCGTGCAGCTAGAGTGAGCCTTAGTAAGACA[TA]CCAACACAGTTCTTA			
22031 IS	[TA]			GAACAAAGAGAAGAATCCAGATAGGGCTGAAGACTACATGGCTGC	ctg22fin4	22	
22159 I			A	GTCACAACCTTCCCAAGAGATGGAAGCACTTCCT			
22159 P	A		A	CGCGCCGAGGAAGACCTACGATGAGATGAY			
22159 P	G		A	ATGACGTGGCAGACGAGACCTACGATGAGATGAY			
22159 T	A		A	TTTTTCATCTCATCGTAGGTCTTGGAAGTGCTTCCATCTCTTGGGAAGGTTGTGACGA			
22159 T	G		A	TTTTTCATCTCATCGTAGGTCTCGGAAGTGCTTCCATCTCTTGGGAAGGTTGTGACGA			
				AGGAACCCAGAAACAAAGGAAACCTTCGTCACAACCTTCCCAAGAGATGGAAGCACTTCC[AG]AGACCTACGATGAGA			
22159 IS	[AG]			TGAAAAAAACCTTTCATTTCATTTCTAAGGCCCTTCCAGGTATGG	ctg22fin3	22	
22441 I			A	AGGACTACATGTGCATGCTACCACATCCAGCTAAAAAAAAAC			
22441 P	T		A	CGCGCCGAGGTTTTTTTTGAGACTGGGTCTY			
22441 P	A		A	ATGACGTGGCAGACATTTTTTTGAGACTGGGTCTY			
22441 T	T		A	AACGAGACCCAGTCTCAAAAAAAATTTTTTTTTAGCTGGATGTGGTAGCATGCACATGTAGTCCTAA			
22441 T	A		A	AACGAGACCCAGTCTCAAAAAAATTTTTTTTTTAGCTGGATGTGGTAGCATGCACATGTAGTCCTAA			
				CTCAGCCTCCTGACTAGTTAGGACTACATGTGCATGCTACCACATCCAGCTAAAAAAAAA[TA]TTTTTTTTGAGACTGGG			
22441 IS	[TA]			TCTCGTTCTGTCACCCAGGCTAGAGTGCAGTGGCACGATCAGGG	ctg22fin4	22	
22592 I			A	TCGCTGCTGCCTTGAACTGCTCCAGAC			
22592 P	T		A	CGCGCCGAGGTGCCGAGCTCGGY			
22592 P	G		A	ATGACGTGGCAGACGGCCGAGCTCGGY			
22592 T	T		A	CGCTCCGAGCTCGGCATCTGGAGCAGTTCAAGGCAGCAGCGAGC			
22592 T	G		A	CGCTCCGAGCTCGGCCTCTGGAGCAGTTCAAGGCAGCAGCGAGC			
				CACCCCACCCTCCCTCCTGCGTCTTTGGACTTGCTCGCTGCTGCCTTGAACTGCTCCAGA[TG]GCCGAGCTCGGAGC			
22592 IS	[TG]			GCTTCTCCTGAGCTCACAAACTTTCTGTAGCTCTCCAGATTCAAGG	MULTIPLE	22	
22798 I			A	TGAATGTCCAGTGCATGCTAGGTACTGGGGATT			
22798 P	A		A	CGCGCCGAGGACAGAGGTGGATAGGCY			
22798 P	G		A	ATGACGTGGCAGACGCAGAGGTGGATAGGCY			
22798 T	A		A	CAGAGCCTATCCACCTCTGTATCCCCAGTACCTAGCATGCACTGGACATTCAGT			
22798 T	G		A	CAGAGCCTATCCACCTCTGCATCCCCAGTACCTAGCATGCACTGGACATTCAGT			
				ACAGGTCATTCATTCGTTCGCCAAAAACTGAATGTCCAGTGCATGCTAGGTACTGGGGAT[AG]CAGAGGTGGATAGGC			
22798 IS	[AG]			TCTGGTACCCTTGCTACACAGCTCCCAGTCCAGGGGGGAGACAAC	ctg22fin4	22	
22912 I			S	AGCAGCACGGTAGTGGCAAAGGTACCTAAGATCT			
22912 P	C		S	ATGACGTGGCAGACGAGTTGGATACTTGAATTCCCY			
22912 P	T		S	CGCGCCGAGGAAGTTGGATACTTGAATTCCCY			
22912 T	C		S	TGCTGGGAATTCAAGTATCCAACTCGATCTTAGGTACCTTTGCCACTACCGTGCTGCTGC			
22912 T	T		S	TGCTGGGAATTCAAGTATCCAACTTGATCTTAGGTACCTTTGCCACTACCGTGCTGCTGC			
				CATCCTCCCTGCTATCCCCCACACACAACCTTCCCCTGCTGGGAATTCAAGTATCCAACT[CT]GATCTTAGGTACCTTT			
22912 IS	[CT]			GCCACTACCGTGCTGCTGCTCTGCCTGAACAATTCCACCACTGT	ctg22fin4	22	
23923 I			S	CCAAAAAAACAAAAACACATGCTTCTACTACCCATGCTTCCACA			
23923 P	A		S	CGCGCCGAGGTTCATTAATAAAAATTTACTGCAGTTTY			
23923 P	G		S	ATGACGTGGCAGACCTCATTAATAAAAATTTACTGCAGTTTY			
23923 T	A		S	TGCCAAACTGCAGTAAATTTTTATTAATGAAGTGGAAGCATGGGTAGTAGAAGCATGTGTTTTTGTTTTTTTGGGA			
23923 T	G		S	TGCCAAACTGCAGTAAATTTTTATTAATGAGGTGGAAGCATGGGTAGTAGAAGCATGTGTTTTTGTTTTTTTGGGA			
				AGCTCATCCGCCAGCTGAACTAGACCCAGGTGCCAAACTGCAGTAAATTTTTATTAATGA[AG]GTGGAAGCATGGGTA			
23923 IS	[AG]			GTAGAAGCATGTGTTTTTGTTTTTTTGGGAATTTTTATCAAGTAT	ctg22fin8	22	
24188 I			S	GAGCCGCCGCCTCCAGCTGAAC			
24188 P	T		S	CGCGCCGAGGAGCGCGAGTCCCY			

FIGURE 129D

24188 P	A	S	ATGACGTGGCAGACTGCGCGAGTCCCY			
24188 T	T	S	CGCCGGGACTCGCGCTTTCAGCTGGAGGCGGCGGCTCCC			
24188 T	A	S	CGCCGGGACTCGCGCATTCAGCTGGAGGCGGCGGCTCCC			
24188 IS	[TA]		CGCTAGGCAGTTACTGAAGACCGTGCCCGCCCCTGCCCCACCCCGCGCCGGGGACTCGCGC[TA]TTCAGCTGGAGGC GGCGGCTCCCTGGTGCGCGCCCAGCCCTGGTGCCCTGCTCTGGCCCT	ctg22fin4	22	
24432 I		A	CCCCAGTGTCTAGCATGAGACACGGGGT			
24432 P	G	A	ATGACGTGGCAGACGATGTTCCGTTGGAGGY			
24432 P	A	A	CGCGCCGAGGAATGTTCCGTTGGAGGY			
24432 T	G	A	CCACCCTCCAACGGAACATCCCCCGTGTCTCATGCTAGACACTGGGGCT			
24432 T	A	A	CCACCCTCCAACGGAACATTCCCCGTGTCTCATGCTAGACACTGGGGCT			
24432 IS	[GA]		GCAGAACCTGGGGTCTGGTGCCAGTGGAGACAGCCCCAGTGTCTAGCATGAGACACGGGG[GA]ATGTTCCGTTGGA GGGTGGGTATGATGACTCTCCTGAAAGCTTCCCTCCCTCCAGTCCAG	ctg22fin4	22	
24635 I		S	TCTCACTGGAATGTGTTATTATATAGTTTTCATTTGGGTTAATTATAAGAAGATGAAATT			
24635 P	C	S	ATGACGTGGCAGACGTGCTGTGAAGTTTTATGAACY			
24635 P	T	S	CGCGCCGAGGATGCTGTGAAGTTTTATGAACY			
24635 T	C	S	TTTTGTTCATAAAACTTCACAGCACATTTCATCTTCTTATAATTAACCCAAATGAAAACTATATAATAACACATTCCAGTG AGAG			
24635 T	T	S	TTTTGTTCATAAAACTTCACAGCATATTTCATCTTCTTATAATTAACCCAAATGAAAACTATATAATAACACATTCCAGTG AGAG			
24635 IS	[CT]		TAGGATGCAGCCAGACAGTGTGGTGGGGGGCAGTTGTTTTGTTCATAAAACTTCACAGCA[CT]ATTTCATCTTCTTATA ATTAACCCAAATGAAAACTATATAATAACACATTCCAGTGAGAG	ctg22fin4	22	
24706 I		A	GTTAATTTTCAAAAAATACTGTAAAAGACTTTAAGGAACAAGTTTTATTGACCAATAAGTC			
24706 P	T	A	CGCGCCGAGGTGATATTTGTCCATAGGTCTCY			
24706 P	G	A	ATGACGTGGCAGACGGATATTTGTCCATAGGTCTCY			
24706 T	T	A	AAAGGAGACCTATGGACAAATATCAACTTATTGGTCAATAAAACTTGTTCCTTAAAGTCTTTTACAGTATTTTTTGAAAA TTAAC			
24706 T	G	A	AAAGGAGACCTATGGACAAATATCCACTTATTGGTCAATAAAACTTGTTCCTTAAAGTCTTTTACAGTATTTTTTGAAAA TTAAC			
24706 IS	[TG]		GTTAATTTTCAAAAAATACTGTAAAAGACTTTAAGGAACAAGTTTTATTGACCAATAAGT[TG]GATATTTGTCCATAGGT CTCCTTTCTATAAATCATCTTGATGTTTAACAACTCTTATTAT			
24728 I		A	ACAGGTCCCTGGGCTCTATGACCATGGAAATT			
24728 P	C	A	CGCGCCGAGGCTCTAGATGAGTAAAAGAAAGCTY			
24728 P	G	A	ATGACGTGGCAGACGTCTAGATGAGTAAAAGAAAGCTY			
24728 T	C	A	GCCAAGCTTTCTTTTACTCATCTAGAGATTTCCATGGTCATAGAGCCCAGGGACCTGTTC			
24728 T	G	A	GCCAAGCTTTCTTTTACTCATCTAGACATTTCCATGGTCATAGAGCCCAGGGACCTGTTC			
24728 IS	[CG]		TATGAAGCTGTCCTACCCAGGAGCGGGGAACAGGTCCCTGGGCTCTATGACCATGGAAAT[CG]TCTAGATGAGTAAA AGAAAGCTTGGCAAAAATTGGGCAGGATCCTCAAACAAAGATTGAG	ctg22fin4	22	
24764 I		S	AGAAGGAGGCCCCCAGCAGCTCAA			
24764 P	A	S	CGCGCCGAGGTTGGTTAGCAACTGACCTY			
24764 P	G	S	ATGACGTGGCAGACCTGGTTAGCAACTGACCY			
24764 T	A	S	ACCAAGGTCAGTTGCTAACCAATGAGCTGCTGGGGGCCTCCTTCTCC			
24764 T	G	S	ACCAAGGTCAGTTGCTAACCAGTGAGCTGCTGGGGGCCTCCTTCTCC			
24764 IS	[AG]		TGGCCTCTGCCATCCCGGTCTGTGAGCGCCCCTTCTTACACCAAGGTCAGTTGCTAACCA[AG]TGAGCTGCTGGGGG CCTCCTTCTCCCACTCCCACTGCACTGTGTCCAGAGTGGCCAGCAC	ctg22fin4	22	
24895 I		S	AGATTGAGTAGTAAATTCTTACTAGATGAGGCTATGTTAAAGTTCTATCGAA			
24895 P	A	S	CGCGCCGAGGTTCTCCAAGTGATTCTAATATAATTGY			
24895 P	G	S	ATGACGTGGCAGACCTCTCCAAGTGATTCTAATATAATTGY			
24895 T	A	S	CCCTCAATTATATTAGAATCACTTGGAGAATCGATAGAACTTTAACATAGCCTCATCTAGTAAGAATTTACTACTCAATC TAT			
24895 T	G	S	CCCTCAATTATATTAGAATCACTTGGAGAGTCGATAGAACTTTAACATAGCCTCATCTAGTAAGAATTTACTACTCAATC TAT			
24895 IS	[AG]		CAGATGAAATCCCCCAAGCAAATGCAACACGCCCTCAATTATATTAGAATCACTTGGAGA[AG]TCGATAGAACTTTAAC ATAGCCTCATCTAGTAAGAATTTACTACTCAATCTATCAAAGAT	ctg22fin4	22	
24920 I		S	AAGTTACAGAATTTTTTATTCTGATATTACTTCCTTTCTGGCTCTTCGT			
24920 P	T	S	CGCGCCGAGGAAAACTGGAAGGATAATTGGAY			
24920 P	C	S	ATGACGTGGCAGACGAAACTGGAAGGATAATTGGAY			
24920 T	T	S	TAATTCCAATTATCCTTCCAGTTTTCGAAGAGCCAGAAAGGAAGTAATATCAGAATAAAAATTCTGTAACTTGA			
24920 T	C	S	TAATTCCAATTATCCTTCCAGTTTCCGAAGAGCCAGAAAGGAAGTAATATCAGAATAAAAATTCTGTAACTTGA			
24920 IS	[TC]		GCCCTGCTTGCTGTTCTAGAATACTGAGGCTCTGAATAATTCCAATTATCCTTCCAGTTT[TC]CGAAGAGCCAGAAAGG AAGTAATATCAGAATAAAAATTCTGTAACTTGATTACCTCTGTA	ctg22fin4	22	
24994 I		S	GCTGGCTCTTCCCGGCCTGCCT			
24994 P	T	S	CGCGCCGAGGAGTCACAGCTTGGGGY			
24994 P	C	S	ATGACGTGGCAGACGGTCACAGCTTGGGGY			
24994 T	T	S	CAAACCCCAAGCTGTGACTGGCAGGCCGGGAAGAGCCAGCTA			
24994 T	C	S	CAAACCCCAAGCTGTGACCGGCAGGCCGGGAAGAGCCAGCTA			
24994 IS	[TC]		AAGCAGTCAAGCTTTGCCCTAGCCAGTCTCCCTCAATGCGGTCAAACCCCAAGCTGTGAC[TC]GGCAGGCCGGGAAG AGCCAGCTAAGAGCTTCCCAGCGAATGGCCAGGCTCCAGCGAGGCT	MULTIPLE	MULTIPLE	
26948 I		S	TGAGGCAAAGGAACTTGTATTAGCAGCTTTGAGGATGACT			
26948 P	C	S	ATGACGTGGCAGACGAGAAACAGAATTTAAGTGCTACY			
26948 P	T	S	CGCGCCGAGGAAGAAACAGAATTTAAGTGCTACY			
26948 T	C	S	TAGTGTAGCACTTAAATTCTGTTTCTCGTCATCCTCAAAGCTGCTAATACAAGTTCCTTTGCCTCAAG			
26948 T	T	S	TAGTGTAGCACTTAAATTCTGTTTCTTGTCATCCTCAAAGCTGCTAATACAAGTTCCTTTGCCTCAAG			
26948 IS	[CT]		TTGTCGATGATGTATTTGGGAAGCAACAAGATTCTAGTGTAGCACTTAAATTCTGTTTCT[CT]GTCATCCTCAAAGCTG CTAATACAAGTTCCTTTGCCTCAAGTGTGCTTCTCAAAAGTATA	ctg17328	12	
27085 I		A	GCTTCGGGTGCCCACCCATCCTCTCT			
27085 P	A	A	CGCGCCGAGGAATTGGCCAGAGTGCY			
27085 P	G	A	ATGACGTGGCAGACGATTGGCCAGAGTGCY			
27085 T	A	A	TTCTGCACTCTGGCCAATTGAGAGGATGGGTGGGCACCCGAAGCCC			
27085 T	G	A	TTCTGCACTCTGGCCAATCGAGAGGATGGGTGGGCACCCGAAGCCC			
27085 IS	[AG]		TTGTGTGTGGCTGCTACTACAACACATGCCTGAGGGCTTCGGGTGCCCACCCATCCTCTC[AG]ATTGGCCAGAGTGC AGAAGGAAGCCCATCTTCACAGAGGAAGGCATGGGGCAGATGCAGA	ctg14210	12	
27276 I		A	CCATTCCAGTATGCTTTTGGAGTTGGGTCTA			
27276 P	C	A	ATGACGTGGCAGACCATAAATGTATAGAAATGTTTCTGTTGY			
27276 P	T	A	CGCGCCGAGGTATAAATGTATAGAAATGTTTCTGTTGGY			
27276 T	C	A	TTTCCCAACAGAAACATTTCTATACATTTATGAGACCCAACTCCAAAAGCATACTGGAATGGAA			
27276 T	T	A	TTTCCCAACAGAAACATTTCTATACATTTATAAGACCCAACTCCAAAAGCATACTGGAATGGAA			
27276 IS	[CT]		TCTTTAGCTTCTGTAGTTCCGGTCTTTAATTCCATTCCAGTATGCTTTTGGAGTTGGGTCT[CT]ATAAATGTATAGAAATG TTTCTGTTGGGAAACAGCAGGAGAATATTAAATAAATATTGTG	ctg1565	1	
27493 I		S	CACCAAGGGTTCATGCATCCAGGCTCTCAAA			
27493 P	A	S	CGCGCCGAGGTATTGAACTTAGAACCAATCCCY			
27493 P	G	S	ATGACGTGGCAGACCATTGAACTTAGAACCAATCCY			
27493 T	A	S	TGTTGGGATTGGTTCTAAGTTCAATATTGAGAGCCTGGATGCATGAACCCTTGGTGGA			
27493 T	G	S	TGTTGGGATTGGTTCTAAGTTCAATGTTGAGAGCCTGGATGCATGAACCCTTGGTGGA			
27493 IS	[AG]		TAAAGCCAAACAAAGCTTTGATGCAAATGGAGGTTTGTTGGGATTGGTTCTAAGTTCAAT[AG]TTGAGAGCCTGGATG CATGAACCCTTGGTGGAAGAGCTGGGAGACCATCCAAACTTTGCC	ctg16537	20	

FIGURE 129D

27782 I		A	GAAGGCAAAGAGACCAGAGAAGAGGAAAAAAAAAAAAAAAGGAATGGTAAGT			
27782 P	A	A	CGCGCCGAGGAGAAATCCCGAGGCCY			
27782 P	C	A	ATGACGTGGCAGACCGAAATCCCGAGGCY			
27782 T	A	A	AGTGGGCCTCGGGATTTCTCTTACCATTCCTTTTTTTTTTTTTTCCTCTTCTCTGGTCTCTTTGCCTTCTC			
27782 T	C	A	AGTGGGCCTCGGGATTTCGCTTACCATTCCTTTTTTTTTTTTTTCCTCTTCTCTGGTCTCTTTGCCTTCTC			
27782 IS	[AC]		GACAGAGTGAGAAGGCAAAGAGACCAGAGAAGAGGAAAAAAAAAAAAAAAGGAATGGTAAG[AC]GAAATCCCGAGGCC CACTTGACAAAGGCAGCCAAGGTGGAGGCTGGCTTGGGGGCTGTCT	ctg16263	1	
27950 I		A	GGTGTGGCTGGGTTGGGGTGGTTAGT			
27950 P	A	A	CGCGCCGAGGAAAAGTGTGCAGAAGATGGY			
27950 P	C	A	ATGACGTGGCAGACCAAAGTGTGCAGAAGATGY			
27950 T	A	A	CACACCATCTTCTGCACACTTTTCTAACCACCCCAACCCAGCCACACCCA			
27950 T	C	A	CACACCATCTTCTGCACACTTTGCTAACCACCCCAACCCAGCCACACCCA			
27950 IS	[AC]		CCTTTGCAGAGCAAGCATTTTGCATGTTTTCCATGGGTGTGGCTGGGTTGGGGTGGTTAG[AC]AAAGTGTGCAGAAG ATGGTGTGGGAGAAGGGCAGGGCATGGAGAATCACAGTGGGGTCTC	ctg15749	X	
28070 I		S	GGAGGAAAGGGATTCAGACATTTTCAAGATCCATGATCAAACAAAAA			
28070 P	G	S	ATGACGTGGCAGACCACTCGAATGCCTCACY			
28070 P	A	S	CGCGCCGAGGTACTCGAATGCCTCACAY			
28070 T	G	S	CAAATGTGAGGCATTCGAGTGTTTTGTTTGATCATGGATCTTGAAAATGTCTGAATCCCTTTCCTCCCT			
28070 T	A	S	CAAATGTGAGGCATTCGAGTATTTTGTTTGATCATGGATCTTGAAAATGTCTGAATCCCTTTCCTCCCT			
28070 IS	[GA]		AAACTTCACTAAGCACATCCCTTGCTTGTGGCCTAGCGACCAAATGTGAGGCATTCGAGT[GA]TTTTGTTTGATCATGG ATCTTGAAAATGTCTGAATCCCTTTCCTCCCTGCAACTGGCCAT	ctg53	14	
28299 I		S	GCTGGAGGCGAAGACCAGGGCGAT			
28299 P	C	S	ATGACGTGGCAGACGGTGAGGGGCCGY			
28299 P	T	S	CGCGCCGAGGAGTGAGGGGCCGY			
28299 T	C	S	CACCCGGCCCCTCACCTCGCCCTGGTCTTCGCCTCCAGCAG			
28299 T	T	S	CACCCGGCCCCTCACTTCGCCCTGGTCTTCGCCTCCAGCAG			
28299 IS	[CT]		TGAGGGGCAGGAGGTAGGGAGCGCCCGGGGCGGGCCGCTGGGCTCCACCCGGCCCCTCAC[CT]TCGCCCTGGTCT TCGCCTCCAGCAGCATCTTCCAGGGCTCTGCGGTGTGCGTGTACAGCA	ctg13516	6	
28854 I		S	CCCCTGGGGGGCTGTTCCACAGA			
28854 P	G	S	ATGACGTGGCAGACCAGTGAGGGGTTAGCTY			
28854 P	A	S	CGCGCCGAGGTAGTGAGGGGTTAGCTGY			
28854 T	G	S	ACATCAGCTAACCCCTCACTGCTGTGGAACAGCCCCCCAGGGGCA			
28854 T	A	S	ACATCAGCTAACCCCTCACTACTGTGGAACAGCCCCCCAGGGGCA			
28854 IS	[GA]		GGTGTGGCCATGGTCACACAGGCCACTCGCTCTGCTCAGCTTCTCTCTCATTTTAGGTTATTCAGGACCGGATTTTTG GAACATCAGCTAACCCCTCACT[GA]CTGTGGAACAGCCCCCCAGGGGCACTCCTGGCCCTGTCTACTTTTTCCACAAG CCCCCAGGACTTCCCCTTCTACTACCTGCAACAGGGTATGCCCTGGG	ctg14333	11	
34663 I		A	GGTAGGAACTACACCACCCAGAATACTGTGCGCA			
34663 P	T	A	CGCGCCGAGGTGAGCGTGCCGGY			
34663 P	C	A	ATGACGTGGCAGACCGAGCGTGCCGGY			
34663 T	T	A	GGCCCCGGCACGCTCAGCGCACAGTATTCTGGGTGGTGTAGTTCCTACCAC			
34663 T	C	A	GGCCCCGGCACGCTCGGCGCACAGTATTCTGGGTGGTGTAGTTCCTACCAC			
34663 IS	[TC]		TCCTCACAGCGCGGCGGACTGCGGCGTGGTAGGAACTACACCACCCAGAATACTGTGCGC[TC]GAGCGTGCCGGGG CCTTAGACCAATCATTGCCCAGGAAAGGGGCACCTCCGTAAGTGCGC			
35518 I		A	GGGAAGAAGCAAGTTAGTAAATCGGTTTTCACCTAAGAAGTTTATGACTCC			
35518 P	G	A	ATGACGTGGCAGACGGAAGATCTTATATCCACCTTTY			
35518 P	T	A	CGCGCCGAGGTGAAGATCTTATATCCACCTTTTY			
35518 T	G	A	AGAGAAAAGGTGGATATAAGATCTTCCGAGTCATAAACTTCTTAGGTGAAAACCGATTTACTAACTTGCTTCTTCCCAT			
35518 T	T	A	AGAGAAAAGGTGGATATAAGATCTTCAGAGTCATAAACTTCTTAGGTGAAAACCGATTTACTAACTTGCTTCTTCCCAT			
35518 IS	[GT]		GTCCAGGTATGGGAAGAAGCAAGTTAGTAAATCGGTTTTCACCTAAGAAGTTTATGACT[GT]GAAGATCTTATATCCA CCTTTTCTCTGCCTTTGGGCAGTTCTGTCTGCCAACTTCTAGAT	ctg14326	3	
35574 I		A	GCATTGCTTAGTTTCTGGGGCTGCCTTCTAGAA			
35574 P	T	A	CGCGCCGAGGTAGCTTCTAAACCCCAAAGY			
35574 P	C	A	ATGACGTGGCAGACCAGCTTCTAAACCCCAAAY			
35574 T	T	A	GAAGCTTTGGGGTTTAGAAGCTATCTAGAAGGCAGCCCCAGAAACTAAGCAATGCCA			
35574 T	C	A	GAAGCTTTGGGGTTTAGAAGCTGTCTAGAAGGCAGCCCCAGAAACTAAGCAATGCCA			
35574 IS	[TC]		GAGGTGGGGTTAATGTGATGGAAAGTTGGCATTGCTTAGTTTCTGGGGCTGCCTTCTAGA[TC]AGCTTCTAAACCCCA AAGCTTCTCTCCACAGTGCCATGCGTCTACTGAGTACTCTGCTTA	ctg15907	6	
35634 I		S	GTGTTCTGTTCTCTGTGTATGACACTGTCATTTTATCCAGTGTTGAGA			
35634 P	A	S	CGCGCCGAGGTAGGCAGAAGAGGCTTGY			
35634 P	G	S	ATGACGTGGCAGACCAGGCAGAAGAGGCTY			
35634 T	A	S	AAATCAAGCCTCTTCTGCCTACTCAACACTGGATAAAATGACAGTGTCATACACAGAGAACAGAACACTC			
35634 T	G	S	AAATCAAGCCTCTTCTGCCTGCTCAACACTGGATAAAATGACAGTGTCATACACAGAGAACAGAACACTC			
35634 IS	[AG]		TGTGTTGGGTGACATGCTCACATTTTTCCACATTTGATAAAAATCAAGCCTCTTCTGCCT[AG]CTCAACACTGGATAAA ATGACAGTGTCATACACAGAGAACAGAACACTCCTTTGGTTGCT	ctg13446	1	
36366 I		A	GCAAAGATAAAGGTATATGTGTTTCCTGTATTACGAACCTTATATAACAAATATTTA			
36366 P	C	A	ATGACGTGGCAGACCAGTGAGGGATGTTGTAAAY			
36366 P	T	A	CGCGCCGAGGTAGTGAGGGATGTTGTAAAGAY			
36366 T	C	A	GCAATCTTTACAACATCCCTCACTGAAATATTTGTTATATAAGGTTCGTAATACAGGAAACACATATACCTTTATCTTTG CCC			
36366 T	T	A	GCAATCTTTACAACATCCCTCACTAAAATATTTGTTATATAAGGTTCGTAATACAGGAAACACATATACCTTTATCTTTG CCC			
36366 IS	[CT]		TAGGGCAAAGATAAAGGTATATGTGTTTCCTGTATTACGAACCTTATATAACAAATATTT[CT]AGTGAGGGATGTTGTAA AGATTGCTACCTTCCTCTTTTGGAAAGAATTTTGGGTGAATAA	ctg13446	1	
36677 I		S	GTTCACTGCAGAAGCCTCATCTCATATTTATTTTTCCTGACCAAAAA			
36677 P	G	S	ATGACGTGGCAGACCAGAGCACTTTCCTGGY			
36677 P	A	S	CGCGCCGAGGTAGAGCACTTTCCTGGCY			
36677 T	G	S	CAGAGCCAGGAAAGTGCTCTGTTTTGGTCAGGAAAAATAAATATGAGATGAGGCTTCTGCAGTGAACCA			
36677 T	A	S	CAGAGCCAGGAAAGTGCTCTATTTTGGTCAGGAAAAATAAATATGAGATGAGGCTTCTGCAGTGAACCA			
36677 IS	[GA]		ATCAAGATCCCCAGGCCTCCCAAGAAAAGGGAACTGCACGCAGAGCCAGGAAAGTGCTCT[GA]TTTTGGTCAGGAAA AATAAATATGAGATGAGGCTTCTGCAGTGAACCAGTACTCTCATAA	ctg15907	6	
36945 I		A	GGGTTGAGCGTGGAAGAGGTATCGCCTT			
36945 P	G	A	ATGACGTGGCAGACGTGAAATCATTTTTGATTTTTTTCACY			
36945 P	A	A	CGCGCCGAGGATGAAATCATTTTTGATTTTTTTCACY			
36945 T	G	A	TTTGGTGAAAAAAATCAAAAATGATTTCACAGGCGATACCTCTTCCACGCTCAACCCAT			
36945 T	A	A	TTTGGTGAAAAAAATCAAAAATGATTTCATAGGCGATACCTCTTCCACGCTCAACCCAT			
36945 IS	[GA]		TCTGGACAGATCTTTTTATTCTCCAGTATTAATGGGTTGAGCGTGGAAGAGGTATCGCCT[GA]TGAATCATTTTTGAT TTTTTTCACCAAATTGCTGGTTTCTCACAGGTTTTGTCCATAGT	ctg15907	6	
37201 I		S	CCAACATCACCGTGACCCCCATCACCAT			

FIGURE 129D

37201	P	G	S	CGCGCCGAGGCTGCGGCCGCGY		
37201	P	C	S	ATGACGTGGCAGACGTGCGGCCGCGY		
37201	T	G	S	GAGTCGCGGCCGCAGTGGTGATGGGGGTCACGGTGATGTTGGTC		
37201	T	C	S	GAGTCGCGGCCGCACTGGTGATGGGGGTCACGGTGATGTTGGTC		
37201	IS	[GC]		GGGGTGGTAAGGTGCCCCACGGCCACCGGCTGGAGATTGGTAAACTGAGTCGCGGCCGCA[GC]TGGTGATGGGGG TCACGGTGATGTTGGTCAAGCCGACTGAGCTCGATGGTGTGGTCACAT	ctg17333	X
38439	I		A	AGATACTAACAGGGTCAGGGCTGGCACCAAT		
38439	P	G	A	ATGACGTGGCAGACGGAGGCCTGATGATTCY		
38439	P	C	A	CGCGCCGAGGCGAGGCCTGATGATTCY		
38439	T	G	A	ATGGGAATCATCAGGCCTCCTTGGTGCCAGCCCTGACCCTGTTAGTATCTTG		
38439	T	C	A	ATGGGAATCATCAGGCCTCGTTGGTGCCAGCCCTGACCCTGTTAGTATCTTG		
38439	IS	[GC]		AATGAGATGCAGGGAGGTGAAGTGACAGCAAGATACTAACAGGGTCAGGGCTGGCACCAA[GC]GAGGCCTGATGATT CCCATCAGGATACCCTTTCCCCCTAATCATCCTGTCTCACTCTTTCT	ctg15907	6
38536	I		A	CCTGGGGAGGGAACGAGACAGGGCA		
38536	P	C	A	ATGACGTGGCAGACCGTCAGCCAGGCCY		
38536	P	T	A	CGCGCCGAGGTGTCAGCCAGGCCY		
38536	T	C	A	ACCAGGCCTGGCTGACGGCCCTGTCTCGTTCCCTCCCCAGGAT		
38536	T	T	A	ACCAGGCCTGGCTGACAGCCCTGTCTCGTTCCCTCCCCAGGAT		
38536	IS	[CT]		CTGTCTGCGGAAGCCTTCCAGCTGAGAGAGGCCAATCCTGGGGAGGGAACGAGACAGGGC[CT]GTCAGCCAGGCCT GGTCAGCGGCTATGAGAGGTATGGGGCCAGGGGCGGAGGGGCAGGCA	ctg22fin4	22
38740	I		A	GAGCCAGGCGTGCTGCCCTCATA		
38740	P	T	A	CGCGCCGAGGTCCGCCCGGAACY		
38740	P	C	A	ATGACGTGGCAGACCCCGCCCGGAACY		
38740	T	T	A	TGTAGTTCCGGGCGGAATGAGGGCAGCACGCCTGGCTCCG		
38740	T	C	A	TGTAGTTCCGGGCGGGATGAGGGCAGCACGCCTGGCTCCG		
38740	IS	[TC]		TTGGCCAGCTCGGAGTCGCGCATGAGTAAGAAGGAGCGGAGCCAGGCGTGCTGCCCTCAT[TC]CCGCCCGGAACTA CAATTCCCAGAAGCGCCTTGGCATCGCCAGACTCCGGTTCTCCGCAG	ctg22fin4	22
38798	I		S	GGCTACTGAGATATACTCAAAATTAAAGGGGCAAGACAAGCAAAGACA		
38798	P	G	S	ATGACGTGGCAGACCACCTCAGCTAGTGTAGAY		
38798	P	A	S	CGCGCCGAGGTACCTCAGCTAGTGTAGATTAGY		
38798	T	G	S	ATGCCTAATCTACACTAGCTGAGGTGGTCTTTGCTTGTCTTGCCCCTTTAATTTTGAGTATATCTCAGTAGCCAT		
38798	T	A	S	ATGCCTAATCTACACTAGCTGAGGTAGTCTTTGCTTGTCTTGCCCCTTTAATTTTGAGTATATCTCAGTAGCCAT		
38798	IS	[GA]		GGTCCAGCCATTTTGGCCACTACCTTGTTTTTCTCATGCCTAATCTACACTAGCTGAGGT[GA]GTCTTTGCTTGTCTTG CCCCTTTAATTTTGAGTATATCTCAGTAGCCATGTATGATTTTC	ctg22fin6	22
39168	I		S	GAAGAGCGTAACAAAGGTCAAAGTCATCAGACCTAGTCTAGTTTTCTAA		
39168	P	A	S	CGCGCCGAGGTAGGATTGAAAATTACCAATTATTCTY		
39168	P	G	S	ATGACGTGGCAGACCAGGATTGAAAATTACCAATTATTCY		
39168	T	A	S	CTTGAGAATAATTGGTAATTTTCAATCCTATAGAAAACTAGACTAGGTCTGATGACTTTGACCTTTGTTACGCTCTTCTT		
39168	T	G	S	CTTGAGAATAATTGGTAATTTTCAATCCTGTAGAAAACTAGACTAGGTCTGATGACTTTGACCTTTGTTACGCTCTTCTT		
39168	IS	[AG]		GATGGAAAACATTGGTCGCTAATAGCAGAAACTTGAGAATAATTGGTAATTTTCAATCCT[AG]TAGAAAACTAGACTAG GTCTGATGACTTTGACCTTTGTTACGCTCTTCTTCCAAATTTTC	ctg15907	6
39464	I		A	AATTGAAAGAGGCATAAATCTTATCTTCTCGCAACCCTAT		
39464	P	G	A	ATGACGTGGCAGACGAAGATCAGCTTCTTGTGAAY		
39464	P	C	A	CGCGCCGAGGCAAGATCAGCTTCTTGTGAY		
39464	T	G	A	CTTCTTCACAAGAAGCTGATCTTCTAGGGTTGCGAGAAGATAAGATTTATGCCTCTTTCAATTCC		
39464	T	C	A	CTTCTTCACAAGAAGCTGATCTTGTAGGGTTGCGAGAAGATAAGATTTATGCCTCTTTCAATTCC		
39464	IS	[GC]		ATGTTGATGAGAGAATAAAGGAATTGAAAGAGGCATAAATCTTATCTTCTCGCAACCCTA[GC]AAGATCAGCTTCTTGT GAAGAAGGGGATTATACTTCTGTAATTAACTGCTTTGCAGCTCC	ctg25099	7
39853	I		A	GCTCTTGAACAAATCTGGTACACAGGGAAGCTAAGACACTTAGA		
39853	P	C	A	ATGACGTGGCAGACCCACAACCACATAGCAAY		
39853	P	T	A	CGCGCCGAGGTCACAACCACATAGCAAGY		
39853	T	C	A	CTTACTTGCTATGTGGTTGTGGCTAAGTGTCTTAGCTTCCCTGTGTACCAGATTTGTTCAAGAGCAG		
39853	T	T	A	CTTACTTGCTATGTGGTTGTGACTAAGTGTCTTAGCTTCCCTGTGTACCAGATTTGTTCAAGAGCAG		
39853	IS	[CT]		TCCTTCCCTACTTAGCTGCTCTTGAACAAATCTGGTACACAGGGAAGCTAAGACACTTAG[CT]CACAACCACATAGCAA GTAAGGCATGGTAGAGTTGTTGGTGGAATTCAGAATGCTATTGC	ctg15064	7
40080	I		S	TGCATTTCTCCCTAGCTTGTAGGGCCTTTTACTTTCTTTTGATAT		
40080	P	C	S	ATGACGTGGCAGACGGATCCTTGCTACTACCCY		
40080	P	T	S	CGCGCCGAGGAGATCCTTGCTACTACCCY		
40080	T	C	S	CACTGGGTAGTAGCAAGGATCCTATCAAAAGAAAGTAAAAGGCCCTACAAGCTAGGGAGAAATGCAAA		
40080	T	T	S	CACTGGGTAGTAGCAAGGATCTTATCAAAAGAAAGTAAAAGGCCCTACAAGCTAGGGAGAAATGCAAA		
40080	IS	[CT]		AAAGAACAATAACACCACAGATATGTGCTTGAAGACTTCCACTGGGTAGTAGCAAGGATC[CT]TATCAAAAGAAAGTAA AAGGCCCTACAAGCTAGGGAGAAATGCAAAGCTTTAGAAGCCAA	ctg15064	7
40224	I		S	ATCCCCCAACCCCCACCCCT		
40224	P	C	S	ATGACGTGGCAGACGTACTCTCCACCAAGGAAY		
40224	P	T	S	CGCGCCGAGGATACTCTCCACCAAGGAATY		
40224	T	C	S	CTCTATTCCTTGGTGGAGAGTACGGGGTGGGGGTTGGGGGATGA		
40224	T	T	S	CTCTATTCCTTGGTGGAGAGTATGGGGTGGGGGTTGGGGGATGA		
40224	IS	[CT]		CTTAATCCTTAATTCCTTGGTCTTAGTACTTTAGATTTCTCTATTCCTTGGTGGAGAGTA[CT]GGGGTGGGGGTTGGG GGATGAATTTTATGGCTGCAGGAAAATTAGAGCTTAAAATTGCCA	ctg15065	20
40592	I		S	CCCAGATCAACCAGAAAAATAGAGAAATTGCTATCCCACTGACAA		
40592	P	A	S	CGCGCCGAGGTTGAGTATGAGCACACACY		
40592	P	G	S	ATGACGTGGCAGACCTGAGTATGAGCACACACY		
40592	T	A	S	GCAAGTGTGTGCTCATACTCAATGTCAGTGGGATAGCAATTTCTCTATTTTTCTGGTTGATCTGGGGA		
40592	T	G	S	GCAAGTGTGTGCTCATACTCAGTGTCAGTGGGATAGCAATTTCTCTATTTTTCTGGTTGATCTGGGGA		
40592	IS	[AG]		CAAAGAGATAAAAGCATCAGGGCTGGCTTACACACCTTCGCAAGTGTGTGCTCATACTCA[AG]TGTCAGTGGGATAGC AATTTCTCTATTTTTCTGGTTGATCTGGGGAAGACCTGGTGGGAA	ctg14391	11
40722	I		S	GAATGGGGGCAGGGGAAATTTCCAGCAGT		
40722	P	G	S	CGCGCCGAGGCTCTAATAAAGCTTTCCTCTAGAAY		
40722	P	C	S	ATGACGTGGCAGACGTCTAATAAAGCTTTCCTCTAGAY		
40722	T	G	S	GAGATTCTAGAGGAAAGCTTTATTAGAGCTGCTGGAAATTTCCCCTGCCCCCATTCCC		
40722	T	C	S	GAGATTCTAGAGGAAAGCTTTATTAGACCTGCTGGAAATTTCCCCTGCCCCCATTCCC		
40722	IS	[GC]		TTAAAGAGAATTTTATTTCTGGGTAAAACTTGAGAGATTCTAGAGGAAAGCTTTATTAGA[GC]CTGCTGGAAATTTCCC CTGCCCCCATTCCCAACTCCTGGTTGGGCCAGGCATGCCCAAGT	ctg22fin4	22
40776	I		S	AGACATGTTTCTTCTGGCCCACATTTTTACTGAAGGTATAACACAAT		
40776	P	G	S	CGCGCCGAGGCAGAAGTCTGAAGCCATGY		
40776	P	C	S	ATGACGTGGCAGACGAGAAGTCTGAAGCCATGY		
40776	T	G	S	TTTGCATGGCTTCAGACTTCTGTTGTGTTATACCTTCAGTAAAAATGTGGGCCAGAAGAAACATGTCTTT		

FIGURE 129D

40776 T	C	S	TTTGCATGGCTTCAGACTTCTCTTGTGTTATACCTTCAGTAAAAATGTGGGCCAGAAGAAACATGTCTTT			
40776 IS	[GC]		GGACAATAGGAGAGAAGATGTGGAATTGAGACTGAGGCCTTTGCATGGCTTCAGACTTCT[GC]TTGTGTTATACCTTC AGTAAAAATGTGGGCCAGAAGAAACATGTCTTTGTTGACAAAGAG	ctg14072	17	
41684 I		S	CCACACTCTGTTTAGCACTAATGTGCCCTACTTGAAACCC			
41684 P	A	S	CGCGCCGAGGTCGTACCCTCCCACAY			
41684 P	T	S	ATGACGTGGCAGACACGTACCCTCCCACAY			
41684 T	A	S	AGAGTGTGGGAGGGTACGAGGTTTCAAGTAGGGCACATTAGTGCTAAACAGAGTGTGGGA			
41684 T	T	S	AGAGTGTGGGAGGGTACGTGGTTTCAAGTAGGGCACATTAGTGCTAAACAGAGTGTGGGA			
41684 IS	[AT]		GGTAGGGTACAAGGTTTCAAATAGGGCACATTAGTGCTAAACAGAGTGTGGGAGGGTACG[AT]GGTTTCAAGTAGGG CACATTAGTGCTAAACAGAGTGTGGGAGGGTACAAGGTTTCAAATA	ctg15140	12	
41827 I		S	CACAAGGATGAAACACCAGCTTCCTGACACACCT			
41827 P	G	S	CGCGCCGAGGCCTTGGACTCCTGGCY			
41827 P	C	S	ATGACGTGGCAGACGCTTGGACTCCTGGCY			
41827 T	G	S	TGGAGCCAGGAGTCCAAGGGGTGTGTCAGGAAGCTGGTGTTTCATCCTTGTGTG			
41827 T	C	S	TGGAGCCAGGAGTCCAAGCGGTGTGTCAGGAAGCTGGTGTTTCATCCTTGTGTG			
41827 IS	[GC]		AAACCATTTAGCGTCTTAAGGGCTCATTTCTGAGGCCAGCACTGGAGCCAGGAGTCCAAG[GC]GGTGTGTCAGGAAG CTGGTGTTTCATCCTTGTGTGCCCAGGGTCCCAGTAAGACCGGAGA	MULTIPLE	MULTIPLE	
41882 I		A	GGCTCAAGGGCTCCTAGACAGTGGGGAC			
41882 P	T	A	CGCGCCGAGGTGAAAATGAGCCAACACCY			
41882 P	A	A	ATGACGTGGCAGACAGAAAATGAGCCAACACCY			
41882 T	T	A	GCATGGTGTTGGCTCATTTTCATCCCCACTGTCTAGGAGCCCTTGAGCCTT			
41882 T	A	A	GCATGGTGTTGGCTCATTTTCTTCCCCACTGTCTAGGAGCCCTTGAGCCTT			
41882 IS	[TA]		GGAAGAGACTGCCCATAGTGAACCAAAGCTCAAGGCTCAAGGGCTCCTAGACAGTGGGGA[TA]GAAAATGAGCCAAC ACCATGCACTGGACGTTTGCCATTGAAAGCAACAGGCTGAACTGGG	ctg15330	9	
43175 I		A	GAGGGGCAGGCCTGTCCCACGT			
43175 P	A	A	CGCGCCGAGGACAGCGTCCCCTGY			
43175 P	C	A	ATGACGTGGCAGACCCAGCGTCCCCTGY			
43175 T	A	A	GCCGCAGGGGACGCTGTCGTGGGACAGGCCTGCCCCTCAA			
43175 T	C	A	GCCGCAGGGGACGCTGGCGTGGGACAGGCCTGCCCCTCAA			
43175 IS	[AC]		CACCCCCAGGGTTTCAGAGTTCATCTAGGTCTGGAGTTTGAGGGGCAGGCCTGTCCCACG[AC]CAGCGTCCCCTGCG GCCGCCCACTCTAATGCCATGTCCCTTCTCTTGCAGTACCAGCTGA	ctg13740	5	
43223 I		S	GCCCCTCCTGGGAGCTGGGCTC			
43223 P	C	S	ATGACGTGGCAGACGGACTCGGTCCTCAGY			
43223 P	A	S	CGCGCCGAGGTGACTCGGTCCTCAGAY			
43223 T	C	S	AGGATCTGAGGACCGAGTCCAGCCCAGCTCCCAGGAGGGGCCG			
43223 T	A	S	AGGATCTGAGGACCGAGTCAAGCCCAGCTCCCAGGAGGGGCCG			
43223 IS	[CA]		ACTTGCAAGGTCCCTTGCCCCGCCCAGAGCTGAGCCTTCCGAGGATCTGAGGACCGAGTC[CA]AGCCCAGCTCCCAG GAGGGGCCGGGATCCTGGGGCAGGGAATAAGGGGCAGGGGCTGGCT	ctg15064	7	
43403 I		S	TGAGCGGACGCAGGGTTCCCAGAAAAGT			
43403 P	T	S	CGCGCCGAGGAGCGCGCGTCCY			
43403 P	C	S	ATGACGTGGCAGACGGCGCGCGTCCY			
43403 T	T	S	CAGCGGACGCGCGCTCTTTTCTGGGAACCCTGCGTCCGCTCAGC			
43403 T	C	S	CAGCGGACGCGCGCCCTTTTCTGGGAACCCTGCGTCCGCTCAGC			
43403 IS	[TC]		AACTCTTGAGTTCCGGCGTGCCCCAACCTCTGTTTCCAAATTTTTCCAGCGGACGCGCGC[TC]CTTTTCTGGGAACCC TGCGTCCGCTCAGCGCGCGCTCATCCCAGTGTCTAAGGCGCTCCC	ctg15064	7	
43762 I		S	ACTGAGTGGAGCGAGGCCCTGACGT			
43762 P	G	S	CGCGCCGAGGCGCGGCCAAGAGY			
43762 P	C	S	ATGACGTGGCAGACGGCGGCCAAGAGCY			
43762 T	G	S	AGCTGCTCTTGGCCGCGCGTCAGGGCCTCGCTCCACTCAGTCC			
43762 T	C	S	AGCTGCTCTTGGCCGCCCGTCAGGGCCTCGCTCCACTCAGTCC			
43762 IS	[GC]		GAGGAGCTCCTCAAGAGCCGCTGCTCCTCCATCGGGATTCAGGTAGCTGCTCTTGGCCGC[GC]CGTCAGGGCCTCG CTCCACTCAGTCCTGCCAATAGCCTAGAATAAGCCAAAACCCAACCA	ctg18433	19	
43942 I		S	GGTGGGGCGCTCTTGGCAGGGT			
43942 P	T	S	CGCGCCGAGGACAGTGGGAGCCTTGY			
43942 P	C	S	ATGACGTGGCAGACGCAGTGGGAGCCTTY			
43942 T	T	S	TCCCCAAGGCTCCCACTGTCCCTGCCAAGAGCGCCCCACCCC			
43942 T	C	S	TCCCCAAGGCTCCCACTGCCCCTGCCAAGAGCGCCCCACCCC			
43942 IS	[TC]		GGGTCTCAGGGCTTGCATCGCCCCCCTGCTGGGCTGGGACTCTCCCCAAGGCTCCCACTG[TC]CCCTGCCAAGAGC GCCCCACCCCTCCCGCTCGCCTCTGTCTCGGGTGTCCTGAGCTCTCC	ctg19247	7	
44011 I		A	TCTCAATGATAAGGGCTGTACTTTCCAATACAAGATTAATTTGGT			
44011 P	A	A	CGCGCCGAGGACATCATGATCTATTAAAGAAAAGCY			
44011 P	G	A	ATGACGTGGCAGACGCATCATGATCTATTAAAGAAAAGY			
44011 T	A	A	TATGGCTTTTCTTTAATAGATCATGATGTCCAAATTAATCTTGTATTGGAAAGTACAGCCCTTATCATTGAGAAT			
44011 T	G	A	TATGGCTTTTCTTTAATAGATCATGATGCCCAAATTAATCTTGTATTGGAAAGTACAGCCCTTATCATTGAGAAT			
44011 IS	[AG]		CGGTATTTAAGGGTATTCTCAATGATAAGGGCTGTACTTTCCAATACAAGATTAATTTGG[AG]CATCATGATCTATTAAA GAAAAGCCATACACAGCAGAATTATTATAATTTCTAAGTTACT	ctg_na	NA	
44083 I		S	GCACAGATGCCCCCTCAGCCCCTT			
44083 P	G	S	CGCGCCGAGGCTGGGTGACCCCTCTGY			
44083 P	C	S	ATGACGTGGCAGACGTGGGTGACCCTCTGY			
44083 T	G	S	CATCCAGAGGGTCACCCAGAGGGGCTGAGGGGGCATCTGTGCAG			
44083 T	C	S	CATCCAGAGGGTCACCCACAGGGGCTGAGGGGGCATCTGTGCAG			
44083 IS	[GC]		GAGGGAGGGTGCTGGCCAGGGAGACCCCGAGAGGCCAGCAGGCATCCAGAGGGTCACCCA[GC]AGGGGCTGAGGG GGCATCTGTGCAGACACCGGTGATCAGGGCTGCGTCATCTCAGGGCCC	ctg14947	16	
44277 I		A	GTACTTGATAAATAGTATTGGTTATAACTAACAAACCTGAACAAACTGCTTTT			
44277 P	C	A	ATGACGTGGCAGACCCTTACCCACAAGGAAAAAY			
44277 P	A	A	CGCGCCGAGGACTTACCCACAAGGAAAAAGY			
44277 T	C	A	CTTTCTTTTTCCTTGTGGGTAAGGAAAGCAGTTTGTTCAGGTTTGTTAGTTATAACCAATACTATTTATCAAGTACTT			
44277 T	A	A	CTTTCTTTTTCCTTGTGGGTAAGTAAAGCAGTTTGTTCAGGTTTGTTAGTTATAACCAATACTATTTATCAAGTACTT			
44277 IS	[CA]		GGTAAGAAGTACTTGATAAATAGTATTGGTTATAACTAACAAACCTGAACAAACTGCTTT[CA]CTTACCCACAAGGAAAA AGAAAGTATTGGTCTTTGGTTATTCACTAAGGCAAGTGGATGA			
44616 I		S	GCTGGAGAGACACCGAGTGAGCCTTCCC			
44616 P	A	S	CGCGCCGAGGTGCAATTGACTAATGTGTTCY			
44616 P	C	S	ATGACGTGGCAGACGGCAATTGACTAATGTGTTCY			
44616 T	A	S	TTAGGAACACATTAGTCAATTGCAGGAAGGCTCACTCGGTGTCTCTCCAGCGT			
44616 T	C	S	TTAGGAACACATTAGTCAATTGCCGGAAGGCTCACTCGGTGTCTCTCCAGCGT			
44616 IS	[AC]		CTGCCAACCTTCATGCACAGGTGGGAAGAACCTATAATTAGGAACACATTAGTCAATTGC[AC]GGAAGGCTCACTCGG TGTCTCTCCAGCGTGGCCGCCCTGAATCTGGACAGACCCTTGTTG	ctg15842	19	
44697 I		A	CACATGGAACTATATGAACAGATGCCATTAACAGGTTTTTGCTTTTACATT			
44697 P	G	A	ATGACGTGGCAGACGTCATCTTTCCCATTTGAGCY			
44697 P	A	A	CGCGCCGAGGATCATCTTTCCCATTTGAGCY			
44697 T	G	A	TAATGCTCAAATGGGAAAGATGACATGTAAAAGCAAAAACCTGTTAATGGCATCTGTTCATATAGTTCCATGTGCC			
44697 T	A	A	TAATGCTCAAATGGGAAAGATGATATGTAAAAGCAAAAACCTGTTAATGGCATCTGTTCATATAGTTCCATGTGCC			

FIGURE 129D

				AGTAAAAAGGCACATGGAACTATATGAACAGATGCCATTAACAGGTTTTTGCTTTTACAT[GA]TCATCTTTCCCATTTGA		
44697	IS	[GA]		GCATTAATTACTCAGTATTTTCTCATCAGTTTTCAGAAAGTTT	ctg15842	19
45794	I		A	GATGTCCAGAGGGATTCCCCACCAGTAGGATA		
45794	P	T	A	CGCGCCGAGGTCTCTGAGGCTTCCCTY		
45794	P	C	A	ATGACGTGGCAGACCCTCTGAGGCTTCCCY		
45794	T	T	A	TAGGAGGGAAGCCTCAGAGAATCCTACTGGTGGGGAATCCCTCTGGACATCTT		
45794	T	C	A	TAGGAGGGAAGCCTCAGAGGATCCTACTGGTGGGGAATCCCTCTGGACATCTT		
				CAAGCAGGCTGCTATGGTGTGTTGCTCAAGATGTCCAGAGGGATTCCCCACCAGTAGGAT[TC]CTCTGAGGCTTCCC		
45794	IS	[TC]		TCCTACAAGCTGCCTCCGCCCCGGATGAGAGGCCCAGGGAGTTGCA	ctg16564	19
46026	I		S	CCATAGTTAGAGGAGGGGCCCAATAGCAGCACA		
46026	P	G	S	ATGACGTGGCAGACCCCTCAAATGCCAGCY		
46026	P	A	S	CGCGCCGAGGTCCTCAAATGCCAGCAY		
46026	T	G	S	ATGCTGCTGGCATTTGAGGGGTGCTGCTATTGGGCCCCTCCTCTAACTATGGTC		
46026	T	A	S	ATGCTGCTGGCATTTGAGGAGTGCTGCTATTGGGCCCCTCCTCTAACTATGGTC		
				GGTGCTGTTGGCATTTGAGGGGTGCTGTTGGCATTTGAGGGATGCTGCTGGCATTTGAGG[GA]GTGCTGCTATTGGG		
46026	IS	[GA]		CCCCTCCTCTAACTATGGTCTTGGAGACAGATGACAGATGGTGACA	ctg11	15
46061	I		S	GAGAGAGGCAGAGAGAGAGAGAGGAAGAGAGAAAAT		
46061	P	T	S	CGCGCCGAGGAATATATAGATTTGTACCGTGGAAY		
46061	P	G	S	ATGACGTGGCAGACCATATATAGATTTGTACCGTGGAY		
46061	T	T	S	GATTTTCCACGGTACAAATCTATATATTTTTTCTCTCTCTTCCTCTCTCTCTCTCTGCCTCTCTCGT		
46061	T	G	S	GATTTTCCACGGTACAAATCTATATATGTTTTCTCTCTCTTCCTCTCTCTCTCTCTGCCTCTCTCGT		
				TTAAAGATCCACGAGCTTTCCAAAGAAGCTCTGGATTTTCCACGGTACAAATCTATATATT[TG]TTTTCTCTCTCTTCCTC		
46061	IS	[TG]		TCTCTCTCTCTCTGCCTCTCTCATGCGTGTATGTGCGCGCCCC	MULTIPLE	MULTIPLE
46205	I		S	GCACATGGAGTGGCTCTTTGATGCTGAAGGAAT		
46205	P	T	S	CGCGCCGAGGACAGATACCTGGATTTCTTTTY		
46205	P	C	S	ATGACGTGGCAGACGCAGATACCTGGATTTCTTTY		
46205	T	T	S	CCGGAAAAGAAATCCAGGTATCTGTTTCCTTCAGCATCAAAGAGCCACTCCATGTGCCC		
46205	T	C	S	CCGGAAAAGAAATCCAGGTATCTGCTTCCTTCAGCATCAAAGAGCCACTCCATGTGCCC		
				CACGGGTGGCAATGGCCAACACTGACAGTAACAATCCCGGAAAAGAAATCCAGGTATCTG[TC]TTCCTTCAGCATCAA		
46205	IS	[TC]		AGAGCCACTCCATGTGCCCCTGGTGGAGCAGCAGGGGTTTCTGGA	ctg15422	X
46227	I		S	GCGGTGTGGTCCCCGGCACCT		
46227	P	C	S	ATGACGTGGCAGACGTGGAGGAATTGGGGTY		
46227	P	T	S	CGCGCCGAGGATGGAGGAATTGGGGTY		
46227	T	C	S	AGCAACCCCAATTCCTCCACGGTGCCGGGGACCACACCGCCC		
46227	T	T	S	AGCAACCCCAATTCCTCCATGGTGCCGGGGACCACACCGCCC		
				GTGGCGCCGGGAGGAACCCAGAACCCACGCCAACTCCGCGGAGCAACCCCAATTCCTCCA[CT]GGTGCCGGGGACC		
46227	IS	[CT]		ACACCGCCCCACTCACCCTTATCCAGTTTTTAAAGTGTGTGATGAAA	ctg25099	7
46366	I		A	TTTTTTCAAATAAAGGACTCACATTAATCTTTTATAAAAATCACAAAAATAAATGAAATCC		
46366	P	T	A	CGCGCCGAGGTTAATTCAGTGCAAAAGCTAAGY		
46366	P	G	A	ATGACGTGGCAGACGTAATTCAGTGCAAAAGCTAAY		
				TGAGCTTAGCTTTTGCACTGAATTAAGATTTCATTTATTTTTGTGATTTTTATAAAAGATTAATGTGAGTCCTTTATTTGA		
46366	T	T	A	AAAAA		
				TGAGCTTAGCTTTTGCACTGAATTACGATTTCATTTATTTTTGTGATTTTTATAAAAGATTAATGTGAGTCCTTTATTTGA		
46366	T	G	A	AAAAA		
				TTTTTTCAAATAAAGGACTCACATTAATCTTTTATAAAAATCACAAAAATAAATGAAATC[TG]TAATTCAGTGCAAAAGCT		
46366	IS	[TG]		AAGCTCAAACGACCAGTTTCTATTAAGTTCTGGTAACTTGAC	ctg15665	20
46684	I		S	AGTCATGCTAGAGTCTGCCAGGCTTTCCTCAT		
46684	P	G	S	CGCGCCGAGGCCTGGAGGAGGACACY		
46684	P	C	S	ATGACGTGGCAGACGCTGGAGGAGGACACY		
46684	T	G	S	TCATGTGTCCTCCTCCAGGTGAGGAAAGCCTGGCAGACTCTAGCATGACTGG		
46684	T	C	S	TCATGTGTCCTCCTCCAGCTGAGGAAAGCCTGGCAGACTCTAGCATGACTGG		
				TCTAAAGGGGGGTGTCTTTCTATCCAATTCCTCCCACAAGACTCATGTGTCCTCCTCCAG[GC]TGAGGAAAGCCTGGC		
46684	IS	[GC]		AGACTCTAGCATGACTGGGAGTAAAGGTGGCTGGGCAATCTCAGC	ctg17103	4
46715	I		S	CGGTTGTGTGGGCAAAGCGCTTA		
46715	P	G	S	ATGACGTGGCAGACCGTGGGTTGCTACTAGAY		
46715	P	A	S	CGCGCCGAGGTGTGGGTTGCTACTAGATY		
46715	T	G	S	CCTCATCTAGTAGCAACCCACGAAGCGCTTTGCCCACACAACCGAA		
46715	T	A	S	CCTCATCTAGTAGCAACCCACAAAGCGCTTTGCCCACACAACCGAA		
				CTGGGCGGAATTTTTTGTGCATGCTAATCATTTCCTTCTCCTCATCTAGTAGCAACCCAC[GA]AAGCGCTTTGCCCACA		
46715	IS	[GA]		CAACCGAAAAAATAAGTCTTTTACGTGATGAAAGTTAAACTAAA	ctg3454	17
46805	I		S	GATGGGGGTGACCGTACAACTGAGCCAA		
46805	P	A	S	CGCGCCGAGGTGAAGAGCTCCAGGTGY		
46805	P	G	S	ATGACGTGGCAGACCGAAGAGCTCCAGGTY		
46805	T	A	S	GTACCACCTGGAGCTCTTCATGGCTCAGTTGTACGGTCACCCCCATCCT		
46805	T	G	S	GTACCACCTGGAGCTCTTCGTGGCTCAGTTGTACGGTCACCCCCATCCT		
				ACTGTGACTAGTCCTGAAAAACAAACACATGTTTTGAATTGGTACCACCTGGAGCTCTTC[AG]TGGCTCAGTTGTACG		
46805	IS	[AG]		GTCACCCCCATCCTGGGGTTTCCACGTATGGGTTTAGGCAAGCGA	ctg17403	17
46864	I		S	GCCTTCCCAGCAGTCTCTACTTCAGCATATCTGGC		
46864	P	C	S	ATGACGTGGCAGACGAGCCAGAAGCACTCAY		
46864	P	A	S	CGCGCCGAGGTAGCCAGAAGCACTCAAY		
46864	T	C	S	AAACTTGAGTGCTTCTGGCTCCCAGATATGCTGAAGTAGAGACTGCTGGGAAGGCAG		
46864	T	A	S	AAACTTGAGTGCTTCTGGCTACCAGATATGCTGAAGTAGAGACTGCTGGGAAGGCAG		
				CAACCCACCCTTGACTGATTGTTCTGTCTTTTGAGTTATCAAACTTGAGTGCTTCTGGCT[CA]CCAGATATGCTGAAGT		
46864	IS	[CA]		AGAGACTGCTGGGAAGGCAGCCACAAATTAGAGTTGATCTTCCA	ctg22fin3	22
46893	I		A	GTCTGGAGAACCCAAAGATTGGCTCCAGAAGCT		
46893	P	G	A	ATGACGTGGCAGACGTATTTCAATGAAGCCGCY		
46893	P	A	A	CGCGCCGAGGATATTTCAATGAAGCCGCAY		
46893	T	G	A	GAGCTGCGGCTTCATTGAAATACGCTTCTGGAGCCAATCTTTGGGTTCTCCAGACCT		
46893	T	A	A	GAGCTGCGGCTTCATTGAAATATGCTTCTGGAGCCAATCTTTGGGTTCTCCAGACCT		
				TTGACCAGTTCTGCATGAGTTGTTGAAGGTCTGGAGAACCCAAAGATTGGCTCCAGAAGC[GA]TATTTCAATGAAGCC		
46893	IS	[GA]		GCAGCTCTAAATGATTTCATCACTGCACATATATTAGGTATGCTG	ctg21fin2	21
46998	I		S	GCAGCAAAGACAATGACAACGTGATTCTTGTCCTGACT		
46998	P	C	S	ATGACGTGGCAGACGCAAGTGTTTTGAAGGAAAGY		
46998	P	T	S	CGCGCCGAGGACAAGTGTTTTGAAGGAAAGY		
46998	T	C	S	GCTCCTTTCCTTCAAAACACTTGCGTCAGGACAAGAATCACGTTGTCATTGTCTTTGCTGCAG		
46998	T	T	S	GCTCCTTTCCTTCAAAACACTTGTGTCAGGACAAGAATCACGTTGTCATTGTCTTTGCTGCAG		
				TTCCTTACTTGGCCAGGTCACAGTTTAAACGTCATCTGCTCCTTTCCTTCAAAACACTT[GC]TGTCAGGACAAGAATCA		
46998	IS	[CT]		CGTTGTCATTGTCTTTGCTGCAGGCCACTGCTGTGCTGGGCACG	ctg16537	20
47008	I		S	GATGCAATGTGGAAGCTGAGATAACCCCACTTCACT		
47008	P	C	S	ATGACGTGGCAGACGGCTGCCCTTCTAAAAGY		
47008	P	T	S	CGCGCCGAGGAGCTGCCCTTCTAAAAGAY		
47008	T	C	S	GTGGTCTTTTAGAAGGGCAGCCGTGAAGTGGGGTTATCTCAGCTTCCACATTGCATCAC		
47008	T	T	S	GTGGTCTTTTAGAAGGGCAGCTGTGAAGTGGGGTTATCTCAGCTTCCACATTGCATCAC		
				GAAAAGCCGTGATGGCAGATGCAGAAGGCAGCGTCGCCTGTGGTCTTTTAGAAGGGCAGC[CT]GTGAAGTGGGGTTA		
47008	IS	[CT]		TCTCAGCTTCCACATTGCATCACGGTGCCCCTGTGAAGGGCAGAGG	ctg18037	7
47060	I		A	GGGGGCCCCCAGGAGACCAA		
47060	P	C	A	ATGACGTGGCAGACCGCTCATGAATTGTTCCAY		

FIGURE 129D

47060 P	T	A	CGCGCCGAGGTGCTCATGAATTGTTCCAY				
47060 T	C	A	CAAGTGGAACAATTCATGAGCGTGGTCTCCTGGGGGCCCCCGA				
47060 T	T	A	CAAGTGGAACAATTCATGAGCATGGTCTCCTGGGGGCCCCCGA				
47060 IS	[CT]		TCCCCTGTTTCCCAAGATTTCCCAAACAGATGGCCAAGATCGGGGGCCCCCAGGAGACCA[CT]GCTCATGAATTGTTC CACTTGAACACAACATTGTTTTTTATGGAACTGGGCTGGGGAGTC	ctg_na	NA		
47126 I		S	ACCCTTGTTTTGCGTGTGGGAGGCAGAA				
47126 P	G	S	ATGACGTGGCAGACCGAGACAATCATTTATTGCGY				
47126 P	A	S	CGCGCCGAGGTGAGACAATCATTTATTGCGY				
47126 T	G	S	TCTCCGCAATAAATGATTGTCTCGTCTGCCTCCCACACGCAAAACAAGGGTGG				
47126 T	A	S	TCTCCGCAATAAATGATTGTCTCATCTGCCTCCCACACGCAAAACAAGGGTGG				
47126 IS	[GA]		TACAGCTTTTGTAAAGGCCAATAGAGCATACCTTTTCTCTCCGCAATAAATGATTGTCTC[GA]TCTGCCTCCCACACGC AAAACAAGGGTGGATTTCTGATTTTTCAGACTTTACACTTCAGC	ctg24	15		
47183 I		A	GGATTTCTTCTGCCATTGTTTTAAAGATGAGCCATTTCCCCA				
47183 P	T	A	CGCGCCGAGGTGTGCTCTCTGGGGY				
47183 P	C	A	ATGACGTGGCAGACCGTGCTCTCTGGGGY				
47183 T	T	A	GGCACCCCAGAGAGCACAGGGGAAATGGCTCATCTTTAAAACAATGGCAGAAGAAATCCAG				
47183 T	C	A	GGCACCCCAGAGAGCACGGGGGAAATGGCTCATCTTTAAAACAATGGCAGAAGAAATCCAG				
47183 IS	[TC]		AGGAAAAGTGACCTTGGCTGGATTTCTTCTGCCATTGTTTTAAAGATGAGCCATTTCCCC[TC]GTGCTCTCTGGGGTG CCGTTCTGGTCTCCACATTGTGGAGTGGCAAGTGCTGCTGCCAGA	ctg16279	17		
47229 I		S	TGGGAGGATGAGCGAGTGGGGGCT				
47229 P	T	S	CGCGCCGAGGACTGAGAGCTGCCCY				
47229 P	C	S	ATGACGTGGCAGACGCTGAGAGCTGCCCY				
47229 T	T	S	GTGAGGGCAGCTCTCAGTGCCCCCACTCGCTCATCCTCCCAGA				
47229 T	C	S	GTGAGGGCAGCTCTCAGCGCCCCCACTCGCTCATCCTCCCAGA				
47229 IS	[TC]		GACCTGGCTGATCTGTGGACAGAGGGGGTCAGAGGCAACCAGGGTGAGGGCAGCTCTCAG[TC]GCCCCCACTCGCT CATCCTCCCAGAGCCCTGCACACCCAGGGACCAGCCTGGGCACCTCA	ctg3235	11		
47290 I		A	ACCCCAGGACAGGAGGCTTCACCCT				
47290 P	A	A	CGCGCCGAGGACTACTTTCCTTCACACCTY				
47290 P	G	A	ATGACGTGGCAGACGCTACTTTCCTTCACACCY				
47290 T	A	A	GAGCAGGTGTGAAGGAAAGTAGTGGGTGAAGCCTCCTGTCCTGGGGTCA				
47290 T	G	A	GAGCAGGTGTGAAGGAAAGTAGCGGGTGAAGCCTCCTGTCCTGGGGTCA				
47290 IS	[AG]		TCCTCTACTAATGCCCTCTCCCTGCAGGCTCCCCTGACCCCAGGACAGGAGGCTTCACCC[AG]CTACTTTCCTTCACA CCTGCTCACCCCTGCTGCTGGGGCTGAGATTGGTGGAAGTATCTG	ctg13206	14		
47297 I		A	CCTCTTGCCCGTCGGCCCTGCT				
47297 P	G	A	ATGACGTGGCAGACGTCGGCCCTGGGY				
47297 P	A	A	CGCGCCGAGGATCGGCCCTGGGY				
47297 T	G	A	GTACCCCAGGGCCGACGCAGGGCCGACGGGCAAGAGGCT				
47297 T	A	A	GTACCCCAGGGCCGATGCAGGGCCGACGGGCAAGAGGCT				
47297 IS	[GA]		CTCAAGAAAGGCCCGGAAGCGCCAGGCTGGAGATAACAGCCTCTTGCCCGTCGGCCCTGC[GA]TCGGCCCTGGGGT ACCATGTGGCCACAACTGCTGTGGCCCCCTGTCCCCAAGACACTTCC				MFGE8
47334 I		S	CAGCCCCGCCCTGGAATCAAGGGT				
47334 P	C	S	ATGACGTGGCAGACGAGAAGTGTGGCAGATGY				
47334 P	T	S	CGCGCCGAGGAAGAAGTGTGGCAGATGY				
47334 T	C	S	GAAGCATCTGCCACACTTCTCCCCTTGATTCCAGGGCGGGGCTGTG				
47334 T	T	S	GAAGCATCTGCCACACTTCTTCCCTTGATTCCAGGGCGGGGCTGTG				
47334 IS	[CT]		TGGCAGGAAGGAGTCAGAGAGCTGTAAACAGAGCCTTCCAGAAGCATCTGCCACACTTC[CT]CCCTTGATTCCAGG GCGGGGCTGTGGCCGTTCAGCATTTCTGTAATTGCCCGGATGGATG	ctg15811	4		
47368 I		S	CATGTCCTACTTAACCGCCATGGGCGCT				
47368 P	C	S	ATGACGTGGCAGACGGACTATCTGAGTTGCGAY				
47368 P	T	S	CGCGCCGAGGAGACTATCTGAGTTGCGAY				
47368 T	C	S	GCTGTCGCAACTCAGATAGTCCGCGCCCATGGCGGTTAAGTAGGACATGCG				
47368 T	T	S	GCTGTCGCAACTCAGATAGTCTGCGCCCATGGCGGTTAAGTAGGACATGCG				
47368 IS	[CT]		TCCTTCACCGTCCGTGTCTTCAAAGTCACTGATGAGGCGGCTGTCGCAACTCAGATAGTC[CT]GCGCCCATGGCGGT TAAGTAGGACATGCGGTCTTCGGGGTCATCATCCATCCCTTCCATC	ctg21fin5	21	TJP2
49159 I		S	CCCTTCCTCCCTGTCCTCTCCACCTTCTT				
49159 P	T	S	CGCGCCGAGGACCACCAGCTTACAGTY				
49159 P	G	S	ATGACGTGGCAGACCCCACCAGCTTACAGTY				
49159 T	T	S	TGAGACTGTAAGCTGGTGGTAGAAGGTGGAGAGGACAGGGAGGAAGGGTG				
49159 T	G	S	TGAGACTGTAAGCTGGTGGGAGAAGGTGGAGAGGACAGGGAGGAAGGGTG				
49159 IS	[TG]		CTTTCCAGCTTACAGCTCCCCCCACTAACCCAGGCCAGGGGTGAGACTGTAAGCTGGTGG[TG]AGAAGGTGGAGAGG ACAGGGAGGAAGGGTGGGGGTGAGATGGAAGGGAGGACCAGGATGG	ctg13321	5		
49185 I		S	GGAGGTTGATTGAAAATCGGAGTTTGAGATGCAAT				
49185 P	C	S	ATGACGTGGCAGACGTATAGGTATCTGTGGTTGATGY				
49185 P	T	S	CGCGCCGAGGATATAGGTATCTGTGGTTGATGY				
49185 T	C	S	ACTGCATCAACCACAGATACCTATACTTGCATCTCAAACTCCGATTTTCAATCAACCTCCAA				
49185 T	T	S	ACTGCATCAACCACAGATACCTATATTTGCATCTCAAACTCCGATTTTCAATCAACCTCCAA				
49185 IS	[CT]		TTACTTGCCATTGAAAATCATGACGTTTTAGGAAAACTGCATCAACCACAGATACCTATA[CT]TTGCATCTCAAACTCCG ATTTTCAATCAACCTCCAATATATGATACACAGATATGTACAT	ctg17782	X		
49260 I		A	GCTCAGACTGGGCCACCGCAGCA				
49260 P	T	A	CGCGCCGAGGTTCCAGCTTGGAGTTCTY				
49260 P	C	A	ATGACGTGGCAGACCTCCAGCTTGGAGTTCTY				
49260 T	T	A	TCCCAGAACTCCAAGCTGGAAGCTGCGGTGGCCCAGTCTGAGCAG				
49260 T	C	A	TCCCAGAACTCCAAGCTGGAGGCTGCGGTGGCCCAGTCTGAGCAG				
49260 IS	[TC]		CTTGCAGCGGGCATCACTGAGGGCCGCCTCACCCTGCTGCTCAGACTGGGCCACCGCAGC[TC]TCCAGCTTGGAGT TCTGGGAGGTAGGGGGAATATGGAGAGGATAAAGTGAAGTTTAGTTT	ctg17490	X		
49302 I		S	GAAGAAAGAGAACCAACAGTCAGTGACTACCCTCCTAATCATT				
49302 P	C	S	ATGACGTGGCAGACGTGACAGTGTAAATTCTTGAAGY				
49302 P	T	S	CGCGCCGAGGATGACAGTGTAAATTCTTGAAGTY				
49302 T	C	S	AAGCACTTCAAGAATTTACACTGTCACATGATTAGGAGGGTAGTCACTGACTGTTGGTTCTCTTTCTTCGC				
49302 T	T	S	AAGCACTTCAAGAATTTACACTGTCATATGATTAGGAGGGTAGTCACTGACTGTTGGTTCTCTTTCTTCGC				
49302 IS	[CT]		GTTCTATGAGGACACAGGGTAGGAACAGTTTGACAAGCACTTCAAGAATTTACACTGTCA[CT]ATGATTAGGAGGGTA GTCACTGACTGTTGGTTCTCTTTCTTCGCCATCTCCAATTTACTA	ctg13206	14		
49386 I		S	CCACACACACAAACACATATACACTGTCACACATACT				
49386 P	C	S	ATGACGTGGCAGACGAATATTCACACATACACTCACY				
49386 P	T	S	CGCGCCGAGGAAATATTCACACATACACTCACAY				
49386 T	C	S	CATGTGTGAGTGTATGTGTGAATATTCGTATGTGTGACAGTGTATATGTGTTTGTGTGTGTGGTG				
49386 T	T	S	CATGTGTGAGTGTATGTGTGAATATTTGTATGTGTGACAGTGTATATGTGTTTGTGTGTGTGGTG				
49386 IS	[CT]		TGTATATGTGTGTGCACATATGTGTGTATGTGTGCATGTGTGAGTGTATGTGTGAATATT[CT]GTATGTGTGACAGTGT ATATGTGTTTGTGTGTGTGGTGTGTATATGCATGTGTGTGCACA	ctg15907	6		
49411 I		A	CGCTTCTGTTCTGTCTCCCCGCACCCC				
49411 P	T	A	CGCGCCGAGGTTGTTCTGCTCATCTCTCY				
49411 P	G	A	ATGACGTGGCAGACGTGTTCTGCTCATCTCTCY				
49411 T	T	A	AGGGGAGAGATGAGCAGAACAAGGGTGCGGGGAGACAGAACAGAAGCGAG				
49411 T	G	A	AGGGGAGAGATGAGCAGAACACGGGTGCGGGGAGACAGAACAGAAGCGAG				
49411 IS	[TG]		CCGCTCTCCCCCACTTCCCTCTCTTGCATTCTCTCGCTTCTGTTCTGTCTCCCCGCACCC[TG]TGTTCTGCTCATCTCT CCCCTCTCCCTCCTTCCTCTGTCATTTCTCTCTTCCTGCCTCCC	ctg15907	6		
49422 I		S	GCCAGGGACGCATGGAGTGACTCAGAGAT				

FIGURE 129D

49422 P	T	S	CGCGCCGAGGAGGGACTATTCAGCTGGY				
49422 P	G	S	ATGACGTGGCAGACCGGGACTATTCAGCTGY				
49422 T	T	S	ACTCCCAGCTGAATAGTCCCTTCTCTGAGTCACTCCATGCGTCCCTGGCTT				
49422 T	G	S	ACTCCCAGCTGAATAGTCCCGTCTCTGAGTCACTCCATGCGTCCCTGGCTT				
49422 tS	[TG]		TTTCAAAATCCCCGGATGAAACACAAAGGGCAAATGCAGGACTCCCAGCTGAATAGTCCC[TG]TCTCTGAGTCACTCC ATGCGTCCCTGGCTTTCCATTCCCTGTCTTCTGGCCTTCCCAATG	ctg17341	14		
49553 I		A	GCTCTGGGAGCCTGGGGAGCCT				
49553 P	G	A	ATGACGTGGCAGACGGCGGACTGGCTY				
49553 P	A	A	CGCGCCGAGGAGCGGACTGGCTGY				
49553 T	G	A	GCATCAGCCAGTCCGCCGGCTCCCCAGGCTCCCAGAGCCC				
49553 T	A	A	GCATCAGCCAGTCCGCTGGCTCCCCAGGCTCCCAGAGCCC				
49553 tS	[GA]		TCAGCACCCCAGCAATGAACTCAAGCAGCCAGCACTTGGGCTCTGGGAGCCTGGGGAGCC[GA]GCGGACTGGCTGA TGCTGGGCCTCCCCAGGGCGGCGGGCTACCCACAAAGGTAAAACCAG	ctg15907	6		
49622 I		A	CCCAGGCCCGCCTCCCCACA				
49622 P	C	A	ATGACGTGGCAGACCCTCTGCAAGCAGCY				
49622 P	T	A	CGCGCCGAGGTCTCTGCAAGCAGCGY				
49622 T	C	A	TTCCCGCTGCTTGCAGAGGGTGGGGAGGCGGGCCTGGGCA				
49622 T	T	A	TTCCCGCTGCTTGCAGAGAGTGGGGAGGCGGGCCTGGGCA				
49622 tS	[CT]		CACAGGCTTTGCCGACGTGGTCTCTCCTAGTTCCGAAATTGCCCAGGCCCGCCTCCCCAC[CT]CTCTGCAAGCAGCG GGAACGACTTCCACATCGCTTAATTTCTTTATTAAACTTTTCACCT				
49635 I		S	GCTCACGGTGGGCGGCGCA				
49635 P	G	S	ATGACGTGGCAGACCGACACAGCCCTGAY				
49635 P	A	S	CGCGCCGAGGTGACACAGCCCTGATY				
49635 T	G	S	GATCATCAGGGCTGTGTCGGCGCCGCCCACCGTGAGCAG				
49635 T	A	S	GATCATCAGGGCTGTGTCAGCGCCGCCCACCGTGAGCAG				
49635 tS	[GA]		CACCAGCTTGCTCTCCTGGGTCCCCACAAACTCCCTGGTCCAGATCATCAGGGCTGTGTC[GA]GCGCCGCCCACCGT GAGCAGCACAGAGTCATTGTGCAGCCACCTCACGTTAGTGACATGT	ctg14391	11		
49817 I		A	CTGCAGCTCAGCAGACCTCCTGGCA				
49817 P	C	A	ATGACGTGGCAGACCGTGGTGGGTAGCTY				
49817 P	T	A	CGCGCCGAGGTGTGGTGGGTAGCTCY				
49817 T	C	A	AAAGGAGCTACCCACCACGCCAGGAGGTCTGCTGAGCTGCAGGA				
49817 T	T	A	AAAGGAGCTACCCACCACAGCCAGGAGGTCTGCTGAGCTGCAGGA				
49817 tS	[CT]		GCTATTCGTCGGTGACCTGTGGGACTCGAGCTATTCCTGCAGCTCAGCAGACCTCCTGGC[CT]GTGGTGGGTAGCTC CTTTCCTTTAGTCAGATTCCGAGGCCTCTGCAACCTGGAGCCTTGG	ctg16400	17		
49851 I		A	CACTGCTTCCTTCTGCTCCAGGCCTCAT				
49851 P	A	A	CGCGCCGAGGATTTTCCCTTCTTGTAAAATGGY				
49851 P	G	A	ATGACGTGGCAGACGTTTTCCCTTCTTGTAAAATGGY				
49851 T	A	A	GATTCCATTTTACAAGAAGGGAAAATTGAGGCCTGGAGCAGAAGGAAGCAGTGGG				
49851 T	G	A	GATTCCATTTTACAAGAAGGGAAAACTGAGGCCTGGAGCAGAAGGAAGCAGTGGG				
49851 tS	[AG]		CCCGGCTTAAGGATGCTGGTTCTGACTCTACCCCACTGCTTCCTTCTGCTCCAGGCCTCA[AG]TTTTCCCTTCTTGTA AAATGGAATCTATATCTATAAAGGTTTCTTCAAATCCACTCTTGA	ctg17731	1		
49858 I		S	CTTTTCTCCACCTCTCATCTTCCCCAGAGCTTCAT				
49858 P	C	S	ATGACGTGGCAGACGAGGAATGAGCAACAACTY				
49858 P	T	S	CGCGCCGAGGAAGGAATGAGCAACAACTTY				
49858 T	C	S	GAAAAAGTTGTTGCTCATTCCTCTGAAGCTCTGGGGAAGATGAGAGGTGGAGAAAAGAA				
49858 T	T	S	GAAAAAGTTGTTGCTCATTCCTTTGAAGCTCTGGGGAAGATGAGAGGTGGAGAAAAGAA				
49858 tS	[CT]		AGGAGGATTTTGATTAGACAGCTACCACAGTCATTTGAGAAAAAGTTGTTGCTCATTCCT[CT]TGAAGCTCTGGGGAA GATGAGAGGTGGAGAAAAGAAGGCTGAGAGTGAAGCCTCTGAATA	ctg15944	11		
49906 I		A	GCCCGGGGCGCCTGGGAT				
49906 P	G	A	ATGACGTGGCAGACGTTTGAAGCAAACAGGCY				
49906 P	A	A	CGCGCCGAGGATTTGAAGCAAACAGGCAY				
49906 T	G	A	GCGCTGCCTGTTTGCTTCAAACTCCCAGGCGCCCCGGGCCT				
49906 T	A	A	GCGCTGCCTGTTTGCTTCAAATTCCCAGGCGCCCCGGGCCT				
49906 tS	[GA]		GAAGAGGCGGGACTTCGCGGGCGACGTCATCGGGGCGCCGGAGGCCCGGGGCGCCTGGGA[GA]TTTGAAGCAAAC AGGCAGCGCGCGACAATGGCGGTCGCTCGTGCAGCTTTGGGGCCATTG	ctg5212	19	UMPS	
49913 I		S	GTTTAGGTTTTTTGATTTCTAAATGGAAGGCATTTTTTTCATTGAGACT				
49913 P	T	S	CGCGCCGAGGATCCATGGAAAAATGACAGGY				
49913 P	C	S	ATGACGTGGCAGACGTCCATGGAAAAATGACAGY				
49913 T	T	S	CTCACCTGTCATTTTTCCATGGATGTCTCAATGAAAAAAATGCCTTCCATTTAGAAATCAAAAAACCTAAACTG				
49913 T	C	S	CTCACCTGTCATTTTTCCATGGACGTCTCAATGAAAAAAATGCCTTCCATTTAGAAATCAAAAAACCTAAACTG				
49913 tS	[TC]		ACAAAGGTAATGTTCTAGACAACTCAGTCAGCCTTCTCTCACCTGTCATTTTTCCATGGA[TC]GTCTCAATGAAAAAAAT GCCTTCCATTTAGAAATCAAAAAACCTAAACTGTTTTTAATGC				
49937 I		A	CCAGGCCTCTTGCCCTTCCAGCAT				
49937 P	C	A	CGCGCCGAGGCAGGACAGGGATGTGTY				
49937 P	G	A	ATGACGTGGCAGACGAGGACAGGGATGTGTY				
49937 T	C	A	CAGGACACATCCCTGTCCTGTGCTGGAAGGGCAAGAGGCCTGGCT				
49937 T	G	A	CAGGACACATCCCTGTCCTCTGCTGGAAGGGCAAGAGGCCTGGCT				
49937 tS	[CG]		ACGGGGGCCACTCTAGGAGGACCTGGGACCCATGAAGCCAGGCCTCTTGCCCTTCCAGCA[CG]AGGACAGGGATGT GTCCTGCTGAGGACAGAGGACAGGGACGGAGGCTTCCTGTATTGTGT	ctg15053	16		
49961 I		S	GAAAAAAACATGTATAATAAAATAATTGCAGATCTAGTTTAGCCAACATTTGATGGA				
49961 P	G	S	ATGACGTGGCAGACCGCCTCTTCCAAGGTY				
49961 P	A	S	CGCGCCGAGGTGCCTCTTCCAAGGTAGY				
49961 T	G	S	AGGACTACCTTGGAAGAGGCGCCATCAAATGTTGGCTAAACTAGATCTGCAATTATTTTATTATACATGTTTTTTTCTC				
49961 T	A	S	AGGACTACCTTGGAAGAGGCACCATCAAATGTTGGCTAAACTAGATCTGCAATTATTTTATTATACATGTTTTTTTCTC				
49961 tS	[GA]		CAGTCCTCTTAAGCTGCAGTCCTGGCCAAGAGCCCTGAGGAGGACTACCTTGGAAGAGGC[GA]CCATCAAATGTTGG CTAAACTAGATCTGCAATTATTTTATTATACATGTTTTTTTCTCTG	ctg12387	2		
50020 I		S	CCTTCAAACCTTTCAGAAAACCTGTTCTAATTTACTTTGCTTCC				
50020 P	A	S	CGCGCCGAGGTTTCTACAGGCTCCATCAY				
50020 P	T	S	ATGACGTGGCAGACATTCTACAGGCTCCATCAY				
50020 T	A	S	TTCCTGATGGAGCCTGTAGAAAGAAGCAAAGTAAATTAGAACAGGTTTTCTGAAAGGTTTGAAGGTA				
50020 T	T	S	TTCCTGATGGAGCCTGTAGAATGAAGCAAAGTAAATTAGAACAGGTTTTCTGAAAGGTTTGAAGGTA				
50020 tS	[AT]		CACCATGTGAGTATCAACAGAGTGCACAGTCCTGCACAGTTCCTGATGGAGCCTGTAGAA[AT]GAAGCAAAGTAAATT AGAACAGGTTTTCTGAAAGGTTTGAAGGTAAAGTTGTCCTTGGGT	ctg15907	6		
50029 I		S	GTGTGATTTGGATTTACCAAACAAACATACACAGACACATACACACACT				
50029 P	T	S	CGCGCCGAGGACATACACACACATTTCTAGAAY				
50029 P	C	S	ATGACGTGGCAGACGCATACACACACATTTCTAGAY				
50029 T	T	S	TATTTTCTAGAAATGTGTGTGTATGTGTGTGTGTATGTGTCTGTGTATGTTTGTTTGGTAAATCCAAATCACACAA				
50029 T	C	S	TATTTTCTAGAAATGTGTGTGTATGCGTGTGTGTATGTGTCTGTGTATGTTTGTTTGGTAAATCCAAATCACACAA				
50029 tS	[TC]		CAAAATTCACTGAAACAACTCTATGTCTCTGATACTATTTTCTAGAAATGTGTGTGTATG[TC]GTGTGTGTATGTGTCTG TGTATGTTTGTTTGGTAAATCCAAATCACACAATCAACGTAAA	ctg13446	1		
50145 I		S	TCAGGAAGCCTCCTCATCTTCAAAGAGCATCAAGCC				

FIGURE 129D

50145	P	A	S	CGCGCCGAGGTCTAAAACGGTAAGAGTGGY			
50145	P	T	S	ATGACGTGGCAGACACTAAAACGGTAAGAGTGGY			
50145	T	A	S	CTGGCCACTCTTACCGTTTTAGAGCTTGATGCTCTTTGAAGATGAGGAGGCTTCCTGACA			
50145	T	T	S	CTGGCCACTCTTACCGTTTTAGTGCTTGATGCTCTTTGAAGATGAGGAGGCTTCCTGACA			
50145	IS	[AT]		CCTTTTATCTCTCCTCGAGTCTCCGCTGCACTCCAGACCTGGCCACTCTTACCGTTTTAG[AT]GCTTGATGCTCTTTGA AGATGAGGAGGCTTCCTGACAGCCGCGTGATGGCTGCCCTCTGG	ctg22fin3	22	
50178	I		S	TCTGGGCCAACTATGGGTTCCCCCCT			
50178	P	G	S	ATGACGTGGCAGACCCCAGCCTTTTTTTTTTTTTTTY			
50178	P	T	S	CGCGCCGAGGACCAGCCTTTTTTTTTTTTTTTY			
50178	T	G	S	AAAAAAAAAAAAAAAAAAAAGGCTGGGGGGGGGAACCCATAGTTGGCCCAGAGA			
50178	T	T	S	AAAAAAAAAAAAAAAAAAAGGCTGGTGGGGGGAACCCATAGTTGGCCCAGAGA			
50178	IS	[GT]		AAAAAAAAAAAGGGGGGGGGGAATACCCCCCAAAAAAAAAAAAAAAAAAAAAAGGCTGG[GT]GGGGGGAACCCATAG TTGGCCCAGAGAATGCGCAGTTAACGCTTAAGTATATATCTTTTC	ctg15478	1	
50290	I		S	GGTGGAGAGAAGGGAGCAGAATGGCCCT			
50290	P	C	S	ATGACGTGGCAGACGGGCACAAGAGGAAGAY			
50290	P	T	S	CGCGCCGAGGAGGCACAAGAGGAAGAAY			
50290	T	C	S	ACGATTCTTCCTCTTGTGCCCGGGCCATTCTGCTCCCTTCTCTCCACCCC			
50290	T	T	S	ACGATTCTTCCTCTTGTGCCTGGGCCATTCTGCTCCCTTCTCTCCACCCC			
50290	IS	[CT]		GAATGTGCTCAGTTGTTTGCTTCTTCTCTCCAGCCTTTCCACGATTCTTCCTCTTGTGCC[CT]GGGCCATTCTGCTCCC TTCTCTCCACCCCAGTACACACAAGAGACTAGAGTCAGGCGCCC	ctg3461	17	
50316	I		S	GGGTGATGGCTAGCTTCTGCCAATGTCTGAGAT			
50316	P	T	S	CGCGCCGAGGAAGAGTATTGGTCCTATACTAACTY			
50316	P	G	S	ATGACGTGGCAGACCAGAGTATTGGTCCTATACTAACY			
50316	T	T	S	ATTAAGTTAGTATAGGACCAATACTCTTTCTCAGACATTGGCAGAAGCTAGCCATCACCCCC			
50316	T	G	S	ATTAAGTTAGTATAGGACCAATACTCTGTCTCAGACATTGGCAGAAGCTAGCCATCACCCCC			
50316	IS	[TG]		GAGAGTCCAACCACACTTACGGTAAGACTTCCCATTAAGTTAGTATAGGACCAATACTCT[TG]TCTCAGACATTGGCAG AAGCTAGCCATCACCCCCTATAAGATGGTAGGCCCTAAGGGCTC	ctg16031	17	
50391	I		A	GGGGTTGGTCCCACGCCTTTCTTTTAAGGTGT			
50391	P	G	A	ATGACGTGGCAGACGGAATCCCTCCTCTTATCAY			
50391	P	C	A	CGCGCCGAGGCGAATCCCTCCTCTTATCAY			
50391	T	G	A	ACACTGATAAGAGGAGGGATTCCCACCTTAAAAGAAAGGCGTGGGACCAACCCCAG			
50391	T	C	A	ACACTGATAAGAGGAGGGATTCGCACCTTAAAAGAAAGGCGTGGGACCAACCCCAG			
50391	IS	[GC]		TGCCCTTGAGGCCGAGAGTGGTGGGATCTGGGGTTGGTCCCACGCCTTTCTTTTAAGGTG[GC]GAATCCCTCCTCTT ATCAGTGTGCTGTGTGATCTGGGTCTGCATCTGGGGGTCTCCAATC	MULTIPLE	MULTIPLE	
50417	I		A	GGCAATTCACAGGAATTGTACATGTAATATTAAAGCAAGTTTTCTAAAGAAATAA			
50417	P	T	A	CGCGCCGAGGTAGTAGCTGGTGAATCCTTY			
50417	P	C	A	ATGACGTGGCAGACCAGTAGCTGGTGAATCCTY			
50417	T	T	A	AGTTAAGGATTCACCAGCTACTATATTTCTTTAGAAAACTTGCTTTAATATTACATGTACAATTCCTGTGAATTGCCAG			
50417	T	C	A	AGTTAAGGATTCACCAGCTACTGTATTTCTTTAGAAAACTTGCTTTAATATTACATGTACAATTCCTGTGAATTGCCAG			
50417	IS	[TC]		AAATCTGGCAATTCACAGGAATTGTACATGTAATATTAAAGCAAGTTTTCTAAAGAAATA[TC]AGTAGCTGGTGAATCCT TAACTAGGGCAAGTTTTTCTGGATCCCTAACCTGGAAAATCAC	ctg19247	7	
50470	I		S	GAGGGAGGGCAGGGGCTGCACT			
50470	P	C	S	ATGACGTGGCAGACGGAGACCAGAGAAAGGAAY			
50470	P	T	S	CGCGCCGAGGAGAGACCAGAGAAAGGAAAY			
50470	T	C	S	GGGTTTTCCTTTCTCTGGTCTCCGTGCAGCCCCTGCCCTCCCTCGG			
50470	T	T	S	GGGTTTTCCTTTCTCTGGTCTCTGTGCAGCCCCTGCCCTCCCTCGG			
50470	IS	[CT]		GACACGCATGGGACTGATGCTTTGAGTTTTCTTCTGTGGGGTTTTCCTTTCTCTGGTCTC[CT]GTGCAGCCCCTGCCC TCCCTCGGGTGCTGCTGGCCTCAAAGGAGGAACTCGTGGGGGGAG	ctg15438	8	
50503	I		A	TGACACTGCACCCGGCTCCCAGTCC			
50503	P	T	A	CGCGCCGAGGTCTCAATCTTGTTGGCCY			
50503	P	A	A	ATGACGTGGCAGACACTCAATCTTGTTGGCCY			
50503	T	T	A	GGAGGGCCAACAAGATTGAGAGACTGGGAGCCGGGTGCAGTGTCAAA			
50503	T	A	A	GGAGGGCCAACAAGATTGAGTGACTGGGAGCCGGGTGCAGTGTCAAA			
50503	IS	[TA]		GGTCTTCTCGAGCTTTGGAACCAGTCGCGTCCCCTTTGACACTGCACCCGGCTCCCAGTC[TA]CTCAATCTTGTTGGC CCTCCGGCGATCTCCCGTTGGATGAATTGCTCCTGCTGAAACTCG	ctg15144	12	
50504	I		S	CTCCTCTGACAGCAGAAGGAGCAGGACCT			
50504	P	C	S	ATGACGTGGCAGACGTAAGGAACCAAAGAGCGY			
50504	P	T	S	CGCGCCGAGGATAAGGAACCAAAGAGCGY			
50504	T	C	S	TCCACGCTCTTTGGTTCCTTACGGTCCTGCTCCTTCTGCTGTCAGAGGAGCA			
50504	T	T	S	TCCACGCTCTTTGGTTCCTTATGGTCCTGCTCCTTCTGCTGTCAGAGGAGCA			
50504	IS	[CT]		TGTGGCCGTTCTCTGAGCTTTCCTGTCACATCGTTTCCTTCCACGCTCTTTGGTTCCTTA[CT]GGTCCTGCTCCTTCTG CTGTCAGAGGAGCAGAGAGTTGATCTTATTCATTCTGGATACGG	ctg15842	19	
50513	I		S	CTGAGGGCTCTTGATCAGACGTGGGGGT			
50513	P	C	S	ATGACGTGGCAGACGGGTCACTGGCAGGY			
50513	P	G	S	CGCGCCGAGGCGGTCACTGGCAGGY			
50513	T	C	S	ATTGCCTGCCAGTGACCCCCCCCACGTCTGATCAAGAGCCCTCAGAT			
50513	T	G	S	ATTGCCTGCCAGTGACCGCCCCCACGTCTGATCAAGAGCCCTCAGAT			
50513	IS	[CG]		CAAATCCACAGGTGGGGACTTGGGGGAGGGTGGAATATGGGGCATTGCCTGCCAGTGACC[CG]CCCCCACGTCTGA TCAAGAGCCCTCAGATGGTACTCACGGGGTCCAGTGTATCTGAGAGG	ctg19262	19	
50527	I		A	GGCGGGGAGAAGATCGACGTGACT			
50527	P	A	A	CGCGCCGAGGAGTGAGCGTGTACAAACY			
50527	P	G	A	ATGACGTGGCAGACGGTGAGCGTGTACAAACY			
50527	T	A	A	CCGTGTTTGTACACGCTCACTGTCACGTCGATCTTCTCCCCGCCAT			
50527	T	G	A	CCGTGTTTGTACACGCTCACCGTCACGTCGATCTTCTCCCCGCCAT			
50527	IS	[AG]		CTCGGGCAAGTACAGCATCAACATCAAGAATAAGTATGGCGGGGAGAAGATCGACGTGAC[AG]GTGAGCGTGTACAA ACACGGGGAGAAGATCCCGGACATGGCCCCGCCCCAGCAAGCCAAG			MYOM2
50549	I		S	CCCTGGGCACTGAGGCAGGGTT			
50549	P	C	S	ATGACGTGGCAGACGCCTGTTATCCTAAATATGATATCY			
50549	P	T	S	CGCGCCGAGGACCTGTTATCCTAAATATGATATCAY			
50549	T	C	S	GCAATGATATCATATTTAGGATAACAGGCACCCTGCCTCAGTGCCCAGGGGA			
50549	T	T	S	GCAATGATATCATATTTAGGATAACAGGTACCCTGCCTCAGTGCCCAGGGGA			
50549	IS	[CT]		AAATGACTCACTGGCATCAAGTACAGGCTTTTGCAATGATATCATATTTAGGATAACAGG[CT]ACCCTGCCTCAGTGCC CAGGGGAATGCTGGAGATGCCCAACCCATTTTGACCTCTTTCAA	ctg16318	19	
50579	I		S	GTCTGGGTGCTCCTGCGGGTGAGAATT			
50579	P	G	S	CGCGCCGAGGCAGAAGAAGACCCCAACY			
50579	P	C	S	ATGACGTGGCAGACGAGAAGAAGACCCCAACY			
50579	T	G	S	GCTGGTTGGGGTCTTCTTCTGATTCTCACCCGCAGGAGCACCCAGACCC			
50579	T	C	S	GCTGGTTGGGGTCTTCTTCTCATTCTCACCCGCAGGAGCACCCAGACCC			
50579	IS	[GC]		GCTCAGGGGAGAGCTGGTGAGCATGACTCCATGGCCTCCTGCTGGTTGGGGTCTTCTTCT[GC]ATTCTCACCCGCAG GAGCACCCAGACCCCCCCTTTTCAGAAATGATTACATTTTCCCTTC	ctg13023	2	
50591	I		S	GAATTTGGCAAATTGGGGAGAATCCTGACACATCAGGT			
50591	P	C	S	ATGACGTGGCAGACGAATTGAGAATGGACTGGCY			
50591	P	T	S	CGCGCCGAGGAAATTGAGAATGGACTGGCY			
50591	T	C	S	AGCTGCCAGTCCATTCTCAATTCCCTGATGTGTCAGGATTCTCCCCAATTTGCCAAATTCTT			
50591	T	T	S	AGCTGCCAGTCCATTCTCAATTTCCTGATGTGTCAGGATTCTCCCCAATTTGCCAAATTCTT			
50591	IS	[CT]		AGACTCTTAGTAGAAGAGACGGCCACTAACAAGTCAAGCTGCCAGTCCATTCTCAATT[CT]CCTGATGTGTCAGGA TTCTCCCCAATTTGCCAAATTCTTTTAGGTTTTGATCTCAAATTA	ctg22fin4	22	

FIGURE 129D

50606 I		A	TCCTGCGGTGGCCCGAGCCT			
50606 P	A	A	CGCGCCGAGGACGAGTGTCACCTCTGY			
50606 P	G	A	ATGACGTGGCAGACGCGAGTGTCACCTCTY			
50606 T	A	A	GGCGCAGAGGTGACACTCGTGGCTCGGGCCACCGCAGGATT			
50606 T	G	A	GGCGCAGAGGTGACACTCGCGGCTCGGGCCACCGCAGGATT			
50606 IS	[AG]		GGCGCCCAGCGAGGTCAGCCGCGTCTCCTTCACGTTCACAATCCTGCGGTGGCCCGAGCC[AG]CGAGTGTCACCTC TGCGCCCCTGTCCACAGGGCCTCACTCCTCCCTATGTCCCATGTGGC	ctg53	14	
50612 I		S	GTTTCTGCTTTCTGCTGAGACCACCCCCAA			
50612 P	G	S	ATGACGTGGCAGACCCCTGACACCATCAGTY			
50612 P	A	S	CGCGCCGAGGTCCTGACACCATCAGTCY			
50612 T	G	S	GGGGGACTGATGGTGTCAGGGTGGGGGTGGTCTCAGCAGAAAGCAGAAACGG			
50612 T	A	S	GGGGGACTGATGGTGTCAGGATGGGGGTGGTCTCAGCAGAAAGCAGAAACGG			
50612 IS	[GA]		CCAAATCCTGGTCTCTGTCCAAGCCAGGCCCCAGGACAGAGGGGGACTGATGGTGTCAGG[GA]TGGGGGTGGTCTC AGCAGAAAGCAGAAACGGCATCAGGCCTCTCCCACACAAAAAAAAAG	ctg22in11	22	
50698 I		S	TGGCAGCAGCCCTCAAGCCACCT			
50698 P	G	S	ATGACGTGGCAGACCCACAGTGGGCGCY			
50698 P	T	S	CGCGCCGAGGACACAGTGGGCGCY			
50698 T	G	S	GTGAGCGCCCACTGTGGGGTGGCTTGAGGGCTGCTGCCAGT			
50698 T	T	S	GTGAGCGCCCACTGTGTGGTGGCTTGAGGGCTGCTGCCAGT			
50698 IS	[GT]		TTGGAACCAAGTTGAAGAAAGGAAGAGAAGGATGATTCATGCCAGTGAGCGCCCACTGTG[GT]GGTGGCTTGAGGGC TGCTGCCAGTCAAGGACACAGTCTCCCAAACCTGCTTTTCTCACTC	ctg16105	5	
50710 I		A	TGCCAGTCAGATCTGCTGCTGCTGCTT			
50710 P	G	A	ATGACGTGGCAGACGCTGCTGCTGCTTAATAY			
50710 P	A	A	CGCGCCGAGGACTGCTGCTGCTTAATACY			
50710 T	G	A	ACAAGTATTAAGCAGCAGCAGCAGCAGCAGCAGATCTGACTGGCAGC			
50710 T	A	A	ACAAGTATTAAGCAGCAGCAGTAGCAGCAGCAGCAGATCTGACTGGCAGC			
50710 IS	[GA]		GGTCCACGCGTGTTCTCTGGGCATGCTGAGCGGCTGCCAGTCAGATCTGCTGCTGCTGCT[GA]CTGCTGCTGCTTAA TACTTGTCTAGGTCAGGCCAGCATCCTCTTGTTTTTCTTGAGGTTC	MULTIPLE	MULTIPLE	
50835 I		S	AGCAGCCTGAGCCAGGTGCTTTCTTTAGCT			
50835 P	C	S	ATGACGTGGCAGACGCCTCTGTGTTCCTCCY			
50835 P	T	S	CGCGCCGAGGACCTCTGTGTTCCTCCY			
50835 T	C	S	TCCTGGAGGAACACAGAGGCGCTAAAGAAAGCACCTGGCTCAGGCTGCTCC			
50835 T	T	S	TCCTGGAGGAACACAGAGGTGCTAAAGAAAGCACCTGGCTCAGGCTGCTCC			
50835 IS	[CT]		ACAGCTGCAGCCGGGGCGCTTCTGCTGGCTTGGTTTGCTTCTCCTGGAGGAACACAGAGG[CT]GCTAAAGAAAGCAC CTGGCTCAGGCTGCTCCCTGTTCCCCCGTGCCAGCCCACCTGGAGG	ctg5305	11	
50841 I		S	CAGCACATCCTACCCCGAAAGCTGCCA			
50841 P	G	S	ATGACGTGGCAGACCACTTAACAATACCAAAGGCY			
50841 P	A	S	CGCGCCGAGGTACTTAACAATACCAAAGGCTTY			
50841 T	G	S	GAGTAAGCCTTTGGTATTGTTAAGTGGGCAGCTTTCGGGGTAGGATGTGCTGCC			
50841 T	A	S	GAGTAAGCCTTTGGTATTGTTAAGTAGGCAGCTTTCGGGGTAGGATGTGCTGCC			
50841 IS	[GA]		AAAGTATTCCATGCGAAAGATTCACGTGCCTCTTTGAGTAAGCCTTTGGTATTGTTAAGT[GA]GGCAGCTTTCGGGGT AGGATGTGCTGCCCTTAAGGATCCAATCATATGGCGTGTATTTTG	ctg2846	11	
50846 I		A	GGAAAGGGAAGGAGAGGGTTGGAGCCAGT			
50846 P	G	A	ATGACGTGGCAGACGATAAGGGAGACCCCTGY			
50846 P	A	A	CGCGCCGAGGAATAAGGGAGACCCCTGY			
50846 T	G	A	GATTCAGGGGTCTCCCTTATCCTGGCTCCAACCCTCTCCTTCCCTTTCCGC			
50846 T	A	A	GATTCAGGGGTCTCCCTTATTCTGGCTCCAACCCTCTCCTTCCCTTTCCGC			
50846 IS	[GA]		TTGAGAGGGTGAGTCTGCCAGTGGGGAAAAGCGGAAAGGGAAGGAGAGGGTTGGAGCCAG[GA]ATAAGGGAGACCC CTGAATCATGGTTTCAAGACCCATGGGGGGACCTGCATTTAGAGGAT	ctg2846	11	
50854 I		A	GGACGACCTTGGCTTCCCTTCTTACCCCA			
50854 P	C	A	ATGACGTGGCAGACCACCCACTCCAGGTACY			
50854 P	T	A	CGCGCCGAGGTACCCACTCCAGGTACTY			
50854 T	C	A	CTGGAGTACCTGGAGTGGGTGGGGGTAAGAAGGGAAGCCAAGGTCGTCCCG			
50854 T	T	A	CTGGAGTACCTGGAGTGGGTAGGGGTAAGAAGGGAAGCCAAGGTCGTCCCG			
50854 IS	[CT]		CCGTCCACAAGGTGAGGGGCGCACACCTTCCGGGACGACCTTGGCTTCCCTTCTTACCCC[CT]ACCCACTCCAGGTA CTCCAGCTCTGGCTTGGGGATGTTTGCCAGCTTTGAGGCGCAAAGG	ctg18466	16	
50871 I		S	TGCATGTACATATTTGCCTTCCCCTACCCTA			
50871 P	G	S	ATGACGTGGCAGACCAAGCTTTATTCTGCAGCY			
50871 P	A	S	CGCGCCGAGGTAAGCTTTATTCTGCAGCCY			
50871 T	G	S	TAATGGCTGCAGAATAAAGCTTGAGGGTAGGGGAAGGCAAATATGTACATGCATG			
50871 T	A	S	TAATGGCTGCAGAATAAAGCTTAAGGGTAGGGGAAGGCAAATATGTACATGCATG			
50871 IS	[GA]		AATCATCTGGTTGACCTTCCTTCATCTCCGAAGTAAAGTAATGGCTGCAGAATAAAGCTT[GA]AGGGTAGGGGAAGGC AAATATGTACATGCATGTTTAAAAAAAAGATTAGTGTGTGCCTTC	ctg12387	2	
50910 I		S	GGCTCATGTGTCACCTACTCCAAAGGTCCCT			
50910 P	T	S	CGCGCCGAGGAAGAGGAGTCTTCCCTACY			
50910 P	C	S	ATGACGTGGCAGACGAGAGGAGTCTTCCCTACY			
50910 T	T	S	GGAAGTAGGGAAGACTCCTCTTGGGACCTTTGGAGTAGGTGACACATGAGCCCA			
50910 T	C	S	GGAAGTAGGGAAGACTCCTCTCGGGACCTTTGGAGTAGGTGACACATGAGCCCA			
50910 IS	[TC]		AGAAGGCAGGGGAGGTGGCTGGTTTAAGGGGAACTTGAGGGAAGTAGGGAAGACTCCTCT[TC]GGGACCTTTGGAG TAGGTGACACATGAGCCCAGCCCCAGCTCACCTGCCAATCCAGCTGA	ctg16820	16	GPA33
50911 I		S	TCACCCACCCCTGGGCACTGGAT			
50911 P	C	S	ATGACGTGGCAGACGAGAAAAGGGGCCTACTY			
50911 P	G	S	CGCGCCGAGGCAGAAAAGGGGCCTACTY			
50911 T	C	S	GGTGAGTAGGCCCCTTTTCTCTCCAGTGCCCAGGGGTGGGTGAGA			
50911 T	G	S	GGTGAGTAGGCCCCTTTTCTGTCCAGTGCCCAGGGGTGGGTGAGA			
50911 IS	[CG]		GGTGGGGAAGATGTGGCCTGTGTTGTGGACACTCTGTGCAGGTGAGTAGGCCCCTTTTCT[CG]TCCAGTGCCCAGG GGTGGGTGAGACATGGGGACCTAGGGCTGAAGGAGAGGCTCTGTCAG	ctg15907	6	
50965 I		A	TGGCCTTGCTGGCAGTGGAGCCT			
50965 P	G	A	ATGACGTGGCAGACGCAGAGGTGGGAGCY			
50965 P	C	A	CGCGCCGAGGCCAGAGGTGGGAGCY			
50965 T	G	A	CTGGGCTCCCACCTCTGCGGCTCCACTGCCAGCAAGGCCACC			
50965 T	C	A	CTGGGCTCCCACCTCTGGGGCTCCACTGCCAGCAAGGCCACC			
50965 IS	[GC]		GAGGATGGGGCAGCGCAGGGATCAGGAGCTTGGCCAGGTGGCCTTGCTGGCAGTGGAGCC[GC]CAGAGGTGGGAG CCCAGGGTGAAGGCACCGGAGAGGGCAGTGGGGACCGCCTGCAAAATG	ctg22in3	22	
51071 I		A	CCCAGCTCCCACATGCCCAATTCTGCT			
51071 P	G	A	ATGACGTGGCAGACGTATTCAAATTTGACCTCTTCTTCY			
51071 P	A	A	CGCGCCGAGGATATTCAAATTTGACCTCTTCTTCY			
51071 T	G	A	ATTTGAAGAAGAGGTCAAATTTGAATACGCAGAATTGGGCATGTGGGAGCTGGGAA			
51071 T	A	A	ATTTGAAGAAGAGGTCAAATTTGAATATGCAGAATTGGGCATGTGGGAGCTGGGAA			
51071 IS	[GA]		CTTTTTTGCTTGAATTGCCTTCCCTGGGCTCCTTCCCAGCTCCCACATGCCCAATTCTGC[GA]TATTCAAATTTGACCT CTTCTTCAAATACCCTTTTAAAAATGCAGTGTAGTGCAAACAGC	MULTIPLE	3	
51161 I		S	GCATCCATCCCCGGTCAGGTGCAGTT			
51161 P	C	S	ATGACGTGGCAGACGTTCTTTCTCTGAACTCATGTY			
51161 P	T	S	CGCGCCGAGGATTCTTTCTCTGAACTCATGTTY			
51161 T	C	S	GTACAACATGAGTTCAGAGAAAGAACACTGCACCTGACCGGGGATGGATGCCA			
51161 T	T	S	GTACAACATGAGTTCAGAGAAAGAATACTGCACCTGACCGGGGATGGATGCCA			
51161 IS	[CT]		TAGAGCTTAGCTCTTTTGCCACTTGTTATTGTCAAGTACAACATGAGTTCAGAGAAAGAA[CT]ACTGCACCTGACCGGG GATGGATGCCACGCCTTGAAGAAATTGGCAGGAAACAGAAGAGG	ctg14932	16	
51166 I		A	GCCCCTTCGCCAGTGCCTTGGCA			

FIGURE 129D

51166 P	T	A	CGCGCCGAGGTGGGAAGGGAGTGTTGY				
51166 P	C	A	ATGACGTGGCAGACCGGGAAGGGAGTGTTY				
51166 T	T	A	CACACAACACTCCCTTCCCAGCCAAGGCACTGGCGAAGGGGCTC				
51166 T	C	A	CACACAACACTCCCTTCCCGGCCAAGGCACTGGCGAAGGGGCTC				
51166 tS	[TC]		ACCTATGGGTGCTATCCTCTCCCAGAAAATGTACCTGAGCCCCTTCGCCAGTGCCTTGGC[TC]GGGAAGGGAGTGTT GTGTGGAGGAGAGCAGTGGGCAGAGCCTCTCAGCAGCTGGGCGGGT	ctg13103	9		
51227 I		A	TTCCCCTGCTACCCAGACCCCCCT				
51227 P	A	A	CGCGCCGAGGACTTCCCCAAGCCTCY				
51227 P	C	A	ATGACGTGGCAGACCCTTCCCCAAGCCTY				
51227 T	A	A	AAAGGAGGCTTGGGGAAGTGGGGGGTCTGGGTAGCAGGGGAAGG				
51227 T	C	A	AAAGGAGGCTTGGGGAAGGGGGGGGTCTGGGTAGCAGGGGAAGG				
51227 tS	[AC]		CTGGAGGGGATAGGGGGCTACACTGGAACTGGCCTCCTTCCCCTGCTACCCAGACCCCCC[AC]CTTCCCCAAGCCTC CTTTCTACTGCTGCTTAGAAGGCCCTGGGCCTGACTGGCCTCCACC	ctg15665	20		
51228 I		A	CCGGGAGTGGGACCACCAGGCC				
51228 P	T	A	CGCGCCGAGGTGCGGGCGGAATTY				
51228 P	A	A	ATGACGTGGCAGACAGCGGGCGGAATTAY				
51228 T	T	A	GGGTTAATTCCGCCCGCAGCCTGGTGGTCCCACTCCCGGGG				
51228 T	A	A	GGGTTAATTCCGCCCGCTGCCTGGTGGTCCCACTCCCGGGG				
51228 tS	[TA]		CGAAGGGAGAACCAGTGATTCCACGGACCCCGGAATCCCCCGGGAGTGGGACCACCAGGC[TA]GCGGGCGGAATTA ACCCTGCCGCGGAGGCGCTGGGCGAGGATGAGGGCGGCGAGCGCGGA	ctg13980	1		
51230 I		S	GGAAGGGGGTCGGCCAGGCTGA				
51230 P	A	S	CGCGCCGAGGTAGGAGGGGACAGTCCY				
51230 P	G	S	ATGACGTGGCAGACCAGGAGGGGACAGTCY				
51230 T	A	S	GGAGGGACTGTCCCCTCCTACAGCCTGGCCGACCCCCTTCCTC				
51230 T	G	S	GGAGGGACTGTCCCCTCCTGCAGCCTGGCCGACCCCCTTCCTC				
51230 tS	[AG]		TTACATTTTCCCTTCAAGAGTCATCTGTGACCTGGTGGTGTGGAGGGACTGTCCCCTCCT[AG]CAGCCTGGCCGACC CCCTTCCTCCAGGGCTGTGTGGAATCACCTCTCAGAAGCTCACTCT	ctg19247	7		
51241 I		A	GGCCTGGAGCATAGTGCACCCTGGAGA				
51241 P	T	A	CGCGCCGAGGTTGAAGTTCTGTTCGCCY				
51241 P	C	A	ATGACGTGGCAGACCTGAAGTTCTGTTCGCCY				
51241 T	T	A	TAAAGGCGAACAGAACTTCAACTCCAGGGTGCACTATGCTCCAGGCCCG				
51241 T	C	A	TAAAGGCGAACAGAACTTCAGCTCCAGGGTGCACTATGCTCCAGGCCCG				
51241 tS	[TC]		ACAGACAGCTACAGGAGCATGCCTCTGCTGGGCGGGCCTGGAGCATAGTGCACCCTGGAG[TC]TGAAGTTCTGTTCG CCTTTACAGGAAGTACACAGCATTGTACGGGGGTTTTACCAGTTAA	ctg14948	16		
51246 I		S	GGGATGCAAGAATTAGCTCCAGAAGGAGACTCCAT				
51246 P	C	S	ATGACGTGGCAGACGTCACCTGATTGGTAATCTGY				
51246 P	G	S	CGCGCCGAGGCTCACCTGATTGGTAATCTGY				
51246 T	C	S	TTCCCAGATTACCAATCAGGTGACTGGAGTCTCCTTCTGGAGCTAATTCTTGCATCCCAG				
51246 T	G	S	TTCCCAGATTACCAATCAGGTGAGTGGAGTCTCCTTCTGGAGCTAATTCTTGCATCCCAG				
51246 tS	[CG]		TCAGTAATCACCCCAAGCAGGCACAGATTAAGTGACCTTCCCAGATTACCAATCAGGTGA[CG]TGGAGTCTCCTTCTG GAGCTAATTCTTGCATCCCAGGGCTGGGGCAGAACAATCCTCCTT	ctg14243	19		
51295 I		A	TGCCTCTTTGTTGGTCTTGCCTTGGGTATTTATTATATAGAGACTAAACAGC				
51295 P	A	A	CGCGCCGAGGAATTTGGAAACCACTGGGY				
51295 P	T	A	ATGACGTGGCAGACTATTTGGAAACCACTGGGY				
51295 T	A	A	ACATCCCAGTGGTTTCCAAATTCTGTTTAGTCTCTATATAATAAATACCCAAGGCAAGACCAACAAAGAGGCAAA				
51295 T	T	A	ACATCCCAGTGGTTTCCAAATACTGTTTAGTCTCTATATAATAAATACCCAAGGCAAGACCAACAAAGAGGCAAA				
51295 tS	[AT]		ATCAGACTTTGCCTCTTTGTTGGTCTTGCCTTGGGTATTTATTATATAGAGACTAAACAG[AT]ATTTGGAAACCACTGG GATGTTTAGCTATCCCTGCTTTGAACGTTGATTTATTTTATACC	ctg15064	7		
51782 I		S	GTGAATGGGGGAGGGGCTGGGGT				
51782 P	G	S	ATGACGTGGCAGACCTGGGCAGCCCC				
51782 P	T	S	CGCGCCGAGGATGGGCAGCCCC				
51782 T	G	S	ACTGGGGGCTGCCCAGCCCCAGCCCCTCCCCCATTCACCC				
51782 T	T	S	ACTGGGGGCTGCCCATCCCCAGCCCCTCCCCCATTCACCC				
51782 tS	[GT]		TCGGGGGAGACCTGGGCCTGACCACTCCTTTGCCCCCCCCAGGTGGACTGGGGGCTGCCCA[GT]CCCCAGCCCCTCC CCCATTCACCCGGCCCATCACAAGCGGGATCGCAGACAGATCTTCCT	ctg14948	16		
51791 I		S	CCAGGCGCTTCTGCAGGTCATCGGT				
51791 P	C	S	ATGACGTGGCAGACGATCGCGGAGGAGC				
51791 P	G	S	CGCGCCGAGGCATCGCGGAGGAGCY				
51791 T	C	S	AGCGGCTCCTCCGCGATCCCGATGACCTGCAGAAGCGCCTGGCA				
51791 T	G	S	AGCGGCTCCTCCGCGATGCCGATGACCTGCAGAAGCGCCTGGCA				
51791 tS	[CG]		GAGCTGCGGGTGCGCCTCGCCTCCCACCTGCGCAAGCTGCGTAAGCGGCTCCTCCGCGAT[CG]CCGATGACCTGCA GAAGCGCCTGGCAGTGTACCAGGCCGGGGCCCGCGAGGGCGCCGAGC	ctg15128	17	APOE	
51825 I		S	GTCTGGCCCGAAATAACTGACCCGAAGTAACAGAAT				
51825 P	T	S	CGCGCCGAGGATTTCCCTTTCCTAACCTTCY				
51825 P	G	S	ATGACGTGGCAGACCTTTCCCTTTCCTAACCTTCY				
51825 T	T	S	TAAAGAAGGTTAGGAAAGGGAAATTTCTGTTACTTCGGGTCAGTTATTTCGGGCCAGACCT				
51825 T	G	S	TAAAGAAGGTTAGGAAAGGGAAAGTTCTGTTACTTCGGGTCAGTTATTTCGGGCCAGACCT				
51825 tS	[TG]		AAACTAAAGTCTCGTCTATTAGAATACTAAATTGAACTAAAGAAGGTTAGGAAAGGGAAA[TG]TTCTGTTACTTCGGGT CAGTTATTTCGGGCCAGACCTTTTTCTTGCTCCTTTGCCAAAAT	ctg11	15		
51848 I		S	AAATTTTCTTTATAAGTTATAAGAAAATCAGGCGGAGGCTAAACTTTTTTTTTTC				
51848 P	A	S	CGCGCCGAGGTTTTGGCAATGCTGTTGAY				
51848 P	C	S	ATGACGTGGCAGACGTTTGGCAATGCTGTTGY				
51848 T	A	S	ATTCTCAACAGCATTGCCAAAAAAAAAAAAAAGTTTAGCCTCCGCCTGATTTTCTTATAACTTATAAAGAAAATTTGG				
51848 T	C	S	ATTCTCAACAGCATTGCCAAACAAAAAAAAAAGTTTAGCCTCCGCCTGATTTTCTTATAACTTATAAAGAAAATTTGG				
51848 tS	[AC]		AAGACATACATTTATGCTATTGTGGGAACATAATGTAATATTCTCAACAGCATTGCCAAA[AC]AAAAAAAAAAGTTTAGC CTCCGCCTGATTTTCTTATAACTTATAAAGAAAATTTGGTTTG	ctg22fin4	22		
51854 I		A	GGACTTGCTTAGGGATAGATGGGAAGTGCCTATCCT				
51854 P	C	A	ATGACGTGGCAGACCAAGGAAGAGACCCAGAY				
51854 P	A	A	CGCGCCGAGGAAAGGAAGAGACCCAGATY				
51854 T	C	A	ACCAATCTGGGTCTCTTCCTTGGGATAGGCACTTCCCATCTATCCCTAAGCAAGTCCGA				
51854 T	A	A	ACCAATCTGGGTCTCTTCCTTTGGATAGGCACTTCCCATCTATCCCTAAGCAAGTCCGA				
51854 tS	[CA]		CTGCGGGCGGAACTCCGTTGCCCTCGGACTTGCTTAGGGATAGATGGGAAGTGCCTATCC[CA]AAGGAAGAGACCCA GATTGGTGGATGGGAATGAGGGGCGTGGCCTCCCGTAGACTCAGGG	ctg25099	7		
51855 I		S	GTTGGACTAAGTGGGCAGGCCTTTTACGACAA				
51855 P	G	S	ATGACGTGGCAGACCGATGATAGGACTGTCAGAY				
51855 P	A	S	CGCGCCGAGGTGATGATAGGACTGTCAGAGY				
51855 T	G	S	CTTTCTCTGACAGTCCTATCATCGTGTCGTAAAAGGCCTGCCCACTTAGTCCAACAC				
51855 T	A	S	CTTTCTCTGACAGTCCTATCATCATGTCGTAAAAGGCCTGCCCACTTAGTCCAACAC				
51855 tS	[GA]		AGGGTTTTTCCTGCAGCCCCTACCTAAGACCTTCTCACTTTCTCTGACAGTCCTATCATC[GA]TGTCGTAAAAGGCCTG CCCACTTAGTCCAACACACTGGAAATGGATGATTGACAACATGT	ctg25099	7		
51919 I		A	GGTGGATTCTCAGAAAGCTGCGGGGGTT				
51919 P	A	A	CGCGCCGAGGATAGGGGAGTCGGTGAY				
51919 P	C	A	ATGACGTGGCAGACCTAGGGGAGTCGGTGY				
51919 T	A	A	GTGCTCACCGACTCCCCTATACCCCCGCAGCTTTCTGAGAATCCACCGA				
51919 T	C	A	GTGCTCACCGACTCCCCTAGACCCCCGCAGCTTTCTGAGAATCCACCGA				

FIGURE 129D

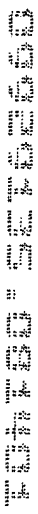
			TCTGGCAGGTTGGTGAGGAACAAGATGTGATTCGGTGGATTCTCAGAAAGCTGCGGGGGT[AC]TAGGGGAGTCGGT			
51919 IS	[AC]		GAGCACAAGAGCCCTGAGTCCAGTGGGAGACCCATAGTACTGCCACT	ctg17465	16	
51936 I		S	GACAACCAACATGCAAACAGGACACAGCACAGT			
51936 P	T	S	CGCGCCGAGGATAAGAAACCAAACGTACTCTTY			
51936 P	C	S	ATGACGTGGCAGACGTAAGAAACCAAACGTACTCTY			
51936 T	T	S	CCTGAAGAGTACGTTTGGTTTCTTATCTGTGCTGTGTCCTGTTTGCATGTTGGTTGTCCT			
51936 T	C	S	CCTGAAGAGTACGTTTGGTTTCTTACCTGTGCTGTGTCCTGTTTGCATGTTGGTTGTCCT			
			CCCACTTGGAAGGACAAAACTGCTATCAGTGAAAACCTGAAGAGTACGTTTGGTTTCTTA[TC]CTGTGCTGTGTCCTGT			
51936 IS	[TC]		TTGCATGTTGGTTGTCCTGCTGGCGTTTATAGTGAGTCGCAGTT	ctg15064	7	
51970 I		S	ACTCAAGGTTGACACAACAGCTCGATAAACCTT			
51970 P	C	S	ATGACGTGGCAGACGTTTTCTCACCCTAGCCY			
51970 P	T	S	CGCGCCGAGGATTTTCTCACCCTAGCCTY			
51970 T	C	S	CCCTAGGCTAGGGTGAGAAAACAGGTTTATCGAGCTGTTGTGTCAACCTTGAGTTC			
51970 T	T	S	CCCTAGGCTAGGGTGAGAAAATAGGTTTATCGAGCTGTTGTGTCAACCTTGAGTTC			
			TCCTAAGTTGGGCCTCTGATTTCTTTTCTCTCCCACTTCCCCTAGGCTAGGGTGAGAAAA[CT]AGGTTTATCGAGCTGT			
51970 IS	[CT]		TGTGTCAACCTTGAGTTCTTATCTTGGAGAAGTCACTCCTGACC			
52006 I		S	ACTGATGAAATGTTATGGGATCAGATTTTCTTAGTGATATATTGAGTATTGAGA			
52006 P	A	S	CGCGCCGAGGTACCAAGAAGAGAACCATGAY			
52006 P	G	S	ATGACGTGGCAGACCACCAAGAAGAGAACCATGY			
52006 T	A	S	CTGTTCATGGTTCTCTTCTTGGTACTCAATACTCAATATATCACTAAGAAAATCTGATCCCATAACATTTCATCAGTAA			
52006 T	G	S	CTGTTCATGGTTCTCTTCTTGGTGCTCAATACTCAATATATCACTAAGAAAATCTGATCCCATAACATTTCATCAGTAA			
			ATGCTCCAGGTCACTGATAGAACATCACAGCACACTGCTGTTCATGGTTCTCTTCTTGGT[AG]CTCAATACTCAATATA			
52006 IS	[AG]		TCACTAAGAAAATCTGATCCCATAACATTTCATCAGTAACATGT	ctg25099	7	
52017 I		S	AGAGCGGCGAGGCATGGGCTGA			
52017 P	A	S	CGCGCCGAGGTGGTTTGTGGAGGTTCTY			
52017 P	G	S	ATGACGTGGCAGACCGGTTTGTGGAGGTTCY			
52017 T	A	S	AACAAGAACCTCCACAAACCACAGCCCATGCCTCGCCGCTCTCC			
52017 T	G	S	AACAAGAACCTCCACAAACCGCAGCCCATGCCTCGCCGCTCTCC			
			AAAGAAACCTGGTAAGGCCAGAGGCTGGGGGAACCGGCCCAACAAGAACCTCCACAAACC[AG]CAGCCCATGCCTCG			
52017 IS	[AG]		CCGCTCTCCCTCCATGCTGGCTTGTGCAGCTGCTGCAGGCCATGGC	ctg14932	16	
52025 I		S	ACCAGAAACAACCTGCGACCCCACCTGT			
52025 P	T	S	CGCGCCGAGGACGTGCGTCTTCCAY			
52025 P	C	S	ATGACGTGGCAGACGCGTGCGTCTTCCY			
52025 T	T	S	GTGCTGGAAGACGCACGTCAGGTGGGGTCGCAGGTTGTTTCTGGTGC			
52025 T	C	S	GTGCTGGAAGACGCACGCCAGGTGGGGTCGCAGGTTGTTTCTGGTGC			
			AGCTCCTTGTGGTCGACCCTTCTGACTTCCATCCCGTTTCCCTGTGCTGGAAGACGCACG[TC]CAGGTGGGGTCGCA			
52025 IS	[TC]		GGTTGTTTCTGGTGCCGGCTTAACCGGCGCAGCACCGAAACCCGTA	ctg_na	NA	
52109 I		A	AGCTGCCCCCAAATGCACGTGTGTTAAAGATT			
52109 P	G	A	ATGACGTGGCAGACGGAAGCTCTAGGTCGGY			
52109 P	A	A	CGCGCCGAGGAGAAGCTCTAGGTCGGY			
52109 T	G	A	GACCCCGACCTAGAGCTTCCATCTTTAACACACGTGCATTTGGGGGCAGCTAT			
52109 T	A	A	GACCCCGACCTAGAGCTTCTATCTTTAACACACGTGCATTTGGGGGCAGCTAT			
			ACCCTTCATTTGTCCTAAATGTTTCAAATAGCTGCCCCCAAATGCACGTGTGTTAAAGAT[GA]GAAGCTCTAGGTCGGG			
52109 IS	[GA]		GTCTGAGAGACAGCTTGACACTTGGTAGAATACATAGACTACTG	ctg18466	16	
52131 I		A	GTACTCCTGATGCCTGAAAATCGTTAAGTGAAGACTTATCACATTACCT			
52131 P	G	A	ATGACGTGGCAGACGATTTGTTCAAAACCACAGCY			
52131 P	A	A	CGCGCCGAGGAATTTGTTCAAAACCACAGCY			
52131 T	G	A	GAACGCTGTGGTTTTGAACAAATCGGTAATGTGATAAGTCTTCACTTAACGATTTTCAGGCATCAGGAGTACAC			
52131 T	A	A	GAACGCTGTGGTTTTGAACAAATTGGTAATGTGATAAGTCTTCACTTAACGATTTTCAGGCATCAGGAGTACAC			
			CCAGGGAATCGTGTACTCCTGATGCCTGAAAATCGTTAAGTGAAGACTTATCACATTACC[GA]ATTTGTTCAAAACCAC			
52131 IS	[GA]		AGCGTTCAAAGAGAAAAAAAGAAAAGAAAATGTCAGCAAAAAAA	ctg19148	19	
52139 I		A	CCTGCTTCCCCCTCCCTACTTCCACTCTC			
52139 P	T	A	CGCGCCGAGGTACAAGTGACAGGAAGAAGY			
52139 P	A	A	ATGACGTGGCAGACAACAAGTGACAGGAAGAAGY			
52139 T	T	A	TGTCCTTCTTCCTGTCACTTGTAAGAGTGGAAGTAGGGAGGGGGAAGCAGGAG			
52139 T	A	A	TGTCCTTCTTCCTGTCACTTGTTAGAGTGGAAGTAGGGAGGGGGAAGCAGGAG			
			GTGGAGGAATGACTGTGCTGGAGTCTCATTCTCCTGCTTCCCCCTCCCTACTTCCACTCT[TA]ACAAGTGACAGGAAG			
52139 IS	[TA]		AAGGACAGAAGGAAAGCTCCAACCGGGAGGGAGAAATGGAAAAGG	ctg18433	19	DKFZP434I114
52221 I		A	AGCCTGCAGTGCCTGCATTTTCCCCT			
52221 P	G	A	ATGACGTGGCAGACGAATTGTTTAACCCTCATGCY			
52221 P	A	A	CGCGCCGAGGAAATTGTTTAACCCTCATGCY			
52221 T	G	A	TGAAGCATGAGGGTTAAACAATTCGGGGAAAATGCAGGCACTGCAGGCTCT			
52221 T	A	A	TGAAGCATGAGGGTTAAACAATTTGGGGAAAATGCAGGCACTGCAGGCTCT			
			TGGACAGGGGAAGGGGGAGGGAAGTTGCCATTCAGAGCCTGCAGTGCCTGCATTTTCCCC[GA]AATTGTTTAACCCT			
52221 IS	[GA]		CATGCTTCAGAATTAGGCTGAGGCTTGCGGGGTGGGTCATGTTGAC	ctg15944	11	
52269 I		A	TCCAGGGCCTTCCAACTGTGACAGCCA			
52269 P	C	A	ATGACGTGGCAGACCACAATGTCATCTTTATGATGGY			
52269 P	T	A	CGCGCCGAGGTACAATGTCATCTTTATGATGGGY			
52269 T	C	A	AAAACCCATCATAAAGATGACATTGTGGGCTGTCACAGTTGGAAGGCCCTGGAAT			
52269 T	T	A	AAAACCCATCATAAAGATGACATTGTAGGCTGTCACAGTTGGAAGGCCCTGGAAT			
			ACTAAGTAAGCTAAATAGTGTGGTCTCATCTAATTCCAGGGCCTTCCAACTGTGACAGCC[CT]ACAATGTCATCTTTAT			
52269 IS	[CT]		GATGGGTTTTTAAACATAAATAGATATCCATCTTCCCATCAATG	ctg16508	19	
52324 I		A	AGTGGGTGGGTATGGGGAACTGGGATAAGGT			
52324 P	A	A	CGCGCCGAGGACAGGAGGCTCTGAGY			
52324 P	C	A	ATGACGTGGCAGACCCAGGAGGCTCTGAGY			
52324 T	A	A	ACTCCTCAGAGCCTCCTGTCCTTATCCCAGTTCCCCATACCCACCCACTCT			
52324 T	C	A	ACTCCTCAGAGCCTCCTGGCCTTATCCCAGTTCCCCATACCCACCCACTCT			
			GGAAGGCTGCTTGGCTAGTGATGGGGCAAGAGTGGGTGGGTATGGGGAACTGGGATAAGG[AC]CAGGAGGCTCTGA			
52324 IS	[AC]		GGAGTCTGGGAACAGACTTTTGCTTCTAAGCAGCTCATTTTTTTCTA			
52334 I		S	AGCCTGCACCCCCAGTGACTGAAAAATGTT			
52334 P	C	S	ATGACGTGGCAGACGCTTTTCCTGAGGGCY			
52334 P	T	S	CGCGCCGAGGACTTTTCCTGAGGGCAY			
52334 T	C	S	CTCGTGCCCTCAGGAAAAGCACATTTTTCAGTCACTGGGGGTGCAGGCTGG			
52334 T	T	S	CTCGTGCCCTCAGGAAAAGTACATTTTTCAGTCACTGGGGGTGCAGGCTGG			
			GGCAGGGCCCCAGCCCTGGGTAAGGGCTGAGTTGGCAGGGCCTCGTGCCCTCAGGAAAAG[CT]ACATTTTTCAGTC			
52334 IS	[CT]		ACTGGGGGTGCAGGCTGGCCCTGTCATTGTCACTCCCCACACAAGTG	MULTIPLE	22	
52459 I		A	CACAGGCCCTTGATCGTTATCCACCCTTTGATGT			
52459 P	C	A	ATGACGTGGCAGACCTGTCAGATTCCAGAACACY			
52459 P	A	A	CGCGCCGAGGATGTCAGATTCCAGAACACY			
52459 T	C	A	CAGCGTGTTCTGGAATCTGACAGCATCAAAGGGTGGATAACGATCAAGGGCCTGTGGG			
52459 T	A	A	CAGCGTGTTCTGGAATCTGACATCATCAAAGGGTGGATAACGATCAAGGGCCTGTGGG			
			TCAACACAGGGAAGGTCACTCATCACCCACAGGCCCTTGATCGTTATCCACCCTTTGATG[CA]TGTCAGATTCCAGAA			
52459 IS	[CA]		CACGCTGCACTAGTCTCTTCCTTCATAGGGAGAGAGGGGATGTGT	ctg15424	2	
52476 I		A	CTCAGCGCCCCCACCCTCAGGT			
52476 P	G	A	ATGACGTGGCAGACGCTGCATGCTCACCY			

FIGURE 129D

52476 P	A	A	CGCGCCGAGGACTGCATGCTCACCCY			
52476 T	G	A	CAGCGGGTGAGCATGCAGCCCTGAGGGTGGGGGCGCTGAGTG			
52476 T	A	A	CAGCGGGTGAGCATGCAGTCCTGAGGGTGGGGGCGCTGAGTG			
52476 IS	[GA]		TGAGCTCCCCACAGCCGAGCAATGACCTTGCAGCACCCACTCAGCGCCCCCACCCTCAGG[GA]CTGCATGCTCACCC GCTGCAGTTCTTGATTCTTCTCCTCCAACTGTGCTTCCATCTGTCG	ctg22in3	22	
52523 I		S	GGAGGTGGTCACTAAGGAGGGTGGGGT			
52523 P	C	S	ATGACGTGGCAGACGCCTACAGCTAAGGGATY			
52523 P	T	S	CGCGCCGAGGACCTACAGCTAAGGGATTAY			
52523 T	C	S	ATGCTAATCCCTTAGCTGTAGGCCCCCACCCTCCTTAGTGACCACCTCCAT			
52523 T	T	S	ATGCTAATCCCTTAGCTGTAGGTCCCCACCCTCCTTAGTGACCACCTCCAT			
52523 IS	[CT]		TTGATTTATTCTCCCTCTGTTTTCTTCAGGCTTCTCAAAATGCTAATCCCTTAGCTGTAGG[CT]CCCCACCCTCCTTAGT GACCACCTCCATCTAATTTTCATTACGGCATATGATGGGGATGA	ctg53	14	
52600 I		A	ACGATTGGTGGCTTTGTGAAACCTTGCATGAACTC			
52600 P	T	A	CGCGCCGAGGTGATGAACTAGAAGTGGGTY			
52600 P	A	A	ATGACGTGGCAGACAGATGAACTAGAAGTGGGTAY			
52600 T	T	A	GAAATACCCACTTCTAGTTCATCAAGTTCATGCAAGGTTTCACAAAGCCACCAATCGTTT			
52600 T	A	A	GAAATACCCACTTCTAGTTCATCTAGTTCATGCAAGGTTTCACAAAGCCACCAATCGTTT			
52600 IS	[TA]		TAGAAAGCTTTTATAAGATGATTAAAACGATTGGTGGCTTTGTGAAACCTTGCATGAACT[TA]GATGAACTAGAAGTGG GTATTTCAGTAAGTACATTACTTCAGGTTGATCAGTATGATGTA	ctg53	14	
52703 I		A	CGTGTGTGTGTGTGTGTATGTGTGTGTGTGC			
52703 P	T	A	CGCGCCGAGGTGAGAGAGAGAGAGTCAGAY			
52703 P	A	A	ATGACGTGGCAGACAGAGAGAGAGAGAGTCAGAY			
52703 T	T	A	TCTTTCTGACTCTCTCTCTCTCACACACACACACATACACACACACACACACACGCA			
52703 T	A	A	TCTTTCTGACTCTCTCTCTCTCTCACACACACACACATACACACACACACACACGCA			
52703 IS	[TA]		AACACTCCAAAATGCCTCTGTGTGTGCGTGTGTGTGTGTGTGTGTATGTGTGTGTGTG[TA]GAGAGAGAGAGAGT CAGAAAGACCTCAAAGAAGAAAGAGGAGAACAAAGATGGTGGGTGA	ctg53	14	
52734 I		A	GCATCCGGCTCCTATCAAAGGAAATCCACAGCA			
52734 P	T	A	CGCGCCGAGGTTTGGCTTTTCGTTGCTY			
52734 P	C	A	ATGACGTGGCAGACCTTGGCTTTTCGTTGCTY			
52734 T	T	A	CAACAGCAACGAAAAGCCAAAGCTGTGGATTTCCTTTGATAGGAGCCGGATGCAG			
52734 T	C	A	CAACAGCAACGAAAAGCCAAGGCTGTGGATTTCCTTTGATAGGAGCCGGATGCAG			
52734 IS	[TC]		CTTCTGAAAGTCCTTCTTCCTAGTCTCTGCATCCGGCTCCTATCAAAGGAAATCCACAGC[TC]TTGGCTTTTCGTTGCT GTTGTCATGGAAATCGTTATAAGGATGGGATCGCGTGGACCAGA			
52755 I		S	CGATGCTGGCCTCAGCTGGGTGATGA			
52755 P	A	S	CGCGCCGAGGTAATCTTGTAGTTGTTCTGCAY			
52755 P	G	S	ATGACGTGGCAGACCAATCTTGTAGTTGTTCTGCY			
52755 T	A	S	AAGATGCAGAACAACTACAAGATTACATCACCCAGCTGAGGCCAGCATCGCT			
52755 T	G	S	AAGATGCAGAACAACTACAAGATTGCATCACCCAGCTGAGGCCAGCATCGCT			
52755 IS	[AG]		AGTGATTCCAGGGCTCTTATGGATTTTACACGTCACAAGATGCAGAACAACTACAAGATT[AG]CATCACCCAGCTGAG GCCAGCATCGCTGAAATGGCAGCAGGGATCATATTACCAGGCTCA	ctg53	14	
52770 I		S	GGCCCCGTGGGCTTCCAGATCACT			
52770 P	C	S	ATGACGTGGCAGACGGTGATGAACCTCTGGY			
52770 P	T	S	CGCGCCGAGGAGTGATGAACCTCTGGCY			
52770 T	C	S	TGAGGCCAGAGGTTCATCACCGTGATCTGGAAGCCCACGGGGCCCC			
52770 T	T	S	TGAGGCCAGAGGTTCATCACTGTGATCTGGAAGCCCACGGGGCCCC			
52770 IS	[CT]		GCGCTGTGGTCCTGTTGGCGTGGTGATGTGGGGCCAATCCTGAGGCCAGAGGTTCATCAC[CT]GTGATCTGGAAGC CCACGGGGCCCCCTGGTAGAAACTGGAAGAACAAAGGGGAAAAGAAA	ctg13361	9	
52786 I		S	AGCAAGTTGTAAACACTGAATTCTATAAACTGTTGGAGACAGT			
52786 P	T	S	CGCGCCGAGGATTCTGGAGAGACACTCAGY			
52786 P	C	S	ATGACGTGGCAGACGTTCTGGAGAGACACTCAY			
52786 T	T	S	AAGCCTGAGTGTCTCTCCAGAATCTGTCTCCAACAGTTTATAGAATTCAGTGTTTACAACTTGCTTT			
52786 T	C	S	AAGCCTGAGTGTCTCTCCAGAACCTGTCTCCAACAGTTTATAGAATTCAGTGTTTACAACTTGCTTT			
52786 IS	[TC]		CTGAACCTCCTCTGTCTTACCCGTTTCTTTCTAGAGCTAAGCCTGAGTGTCTCTCCAGAA[TC]CTGTCTCCAACAGTTT ATAGAATTCAGTGTTTACAACTTGCTTTTCACAAACACCCAAAG	ctg23	17	
61183 I		S	TCACCTTTCCTGACTCTGTGGATGACCGGTGT			
61183 P	G	S	CGCGCCGAGGCTCCACTCACAGCGAY			
61183 P	C	S	ATGACGTGGCAGACGTCCACTCACAGCGAY			
61183 T	G	S	ATCCTCGCTGTGAGTGGAGCACCGGTCATCCACAGAGTCAGGAAAGGTGAGG			
61183 T	C	S	ATCCTCGCTGTGAGTGGACCACCGGTCATCCACAGAGTCAGGAAAGGTGAGG			
61183 IS	[GC]		GAGACTGGCCGCAGTATCCAAGCTAGTGGCGGTCCCAGTGCTATCCTCGCTGTGAGTGGA[GC]CACCGGTCATCCAC AGAGTCAGGAAAGGTGAGGCCTGGAAGCTGGACACCTGCGAGGCCC	ctg15907	6	
61188 I		S	TCATCCTTGTGAAATGGGGCCCCCTTGATTTCA			
61188 P	A	S	CGCGCCGAGGTTTCAGCAGCACTATTGGY			
61188 P	G	S	ATGACGTGGCAGACCTTCAGCAGCACTATTGGY			
61188 T	A	S	CAGTCCAATAGTGCTGCTGAAAGAAATCAAGGGGGCCCCATTCACAAGGATGAAA			
61188 T	G	S	CAGTCCAATAGTGCTGCTGAAGGAAATCAAGGGGGCCCCATTCACAAGGATGAAA			
61188 IS	[AG]		GGAGGTGGATTGCATATGAGGGTGAGTTCACCTTGGATTCAGTCCAATAGTGCTGCTGAA[AG]GAAATCAAGGGGGC CCCATTCACAAGGATGAAATCTAGGTGTATGCCAGATTGCTGGAGG	ctg15907	6	
61189 I		S	CAATCTATCCACGACAGCTCCTTGTTCGCCCA			
61189 P	A	S	CGCGCCGAGGTTCTCCTCTCTCACATTCTY			
61189 P	G	S	ATGACGTGGCAGACCTCTCCTCTCTCACATTCTY			
61189 T	A	S	AGTGAGAATGTGAGAGAGGAGAAGGGCGAACAAGGAGCTGTCGTGGATAGATTGCA			
61189 T	G	S	AGTGAGAATGTGAGAGAGGAGAGGGGCGAACAAGGAGCTGTCGTGGATAGATTGCA			
61189 IS	[AG]		AGGGAGACCGGGGCACCCTACAAAGGGGCCCAAGGATGAGTGAGAATGTGAGAGAGGAGA[AG]GGGCGAACAAGGA GCTGTCGTGGATAGATTGCAGAAAAGGATGAAAATGGGCGCGGTGAA	ctg15907	6	
61195 I		A	GAGGGAGTGGCTGGGGCCCAA			
61195 P	C	A	ATGACGTGGCAGACCGCCCACCTTGGCY			
61195 P	T	A	CGCGCCGAGGTGCCCACCTTGGCY			
61195 T	C	A	GATGGCCAAGGTGGGCGTGGGCCCCAGCCACTCCCTCCC			
61195 T	T	A	GATGGCCAAGGTGGGCATGGGCCCCAGCCACTCCCTCCC			
61195 IS	[CT]		GCTTGGGCAGCTGCTGTGCAGTCAGCACCTGTGGGTGAGGGAGGGAGTGGCTGGGGCCCA[CT]GCCCACCTTGGC CATCCCCTCATGGGCCTCAAGCTCACACCACCCTCACTTCCAAATGTC			
61279 I		A	TGTCTGTGCTACTCTTATACCATGGAATATGCTTCAACAAGGGT			
61279 P	C	A	ATGACGTGGCAGACCTGATTATCTAGCTCATTTTAATGCY			
61279 P	A	A	CGCGCCGAGGATGATTATCTAGCTCATTTTAATGCY			
61279 T	C	A	GTTGGCATTAAAATGAGCTAGATAATCAGCCCTTGTTGAAGCATATTCCATGGTATAAGAGTAGCACAGACATG			
61279 T	A	A	GTTGGCATTAAAATGAGCTAGATAATCATCCCTTGTTGAAGCATATTCCATGGTATAAGAGTAGCACAGACATG			
61279 IS	[CA]		TCTTTATCTATGTTTCATGTCTGTGCTACTCTTATACCATGGAATATGCTTCAACAAGGG[CA]TGATTATCTAGCTCATT TTAATGCCAACAGCTTCTCTTTACACCCCCATCTATGCACTGC	ctg14932	16	
61282 I		S	GTGTGTTCCCAAAGATTTAAGAAGCACCTTAAATCTTTAATGATTTTC			
61282 P	A	S	CGCGCCGAGGTTTGGCCTAAATATGTCCTAATY			
61282 P	C	S	ATGACGTGGCAGACGTTGGCCTAAATATGTCCTAAY			
61282 T	A	S	CATAATTAGGACATATTTAGGCCAAAAAAATCATTAAAGATTTAAGGTGCTTCTTAAATCTTTGGGAACACACAT			

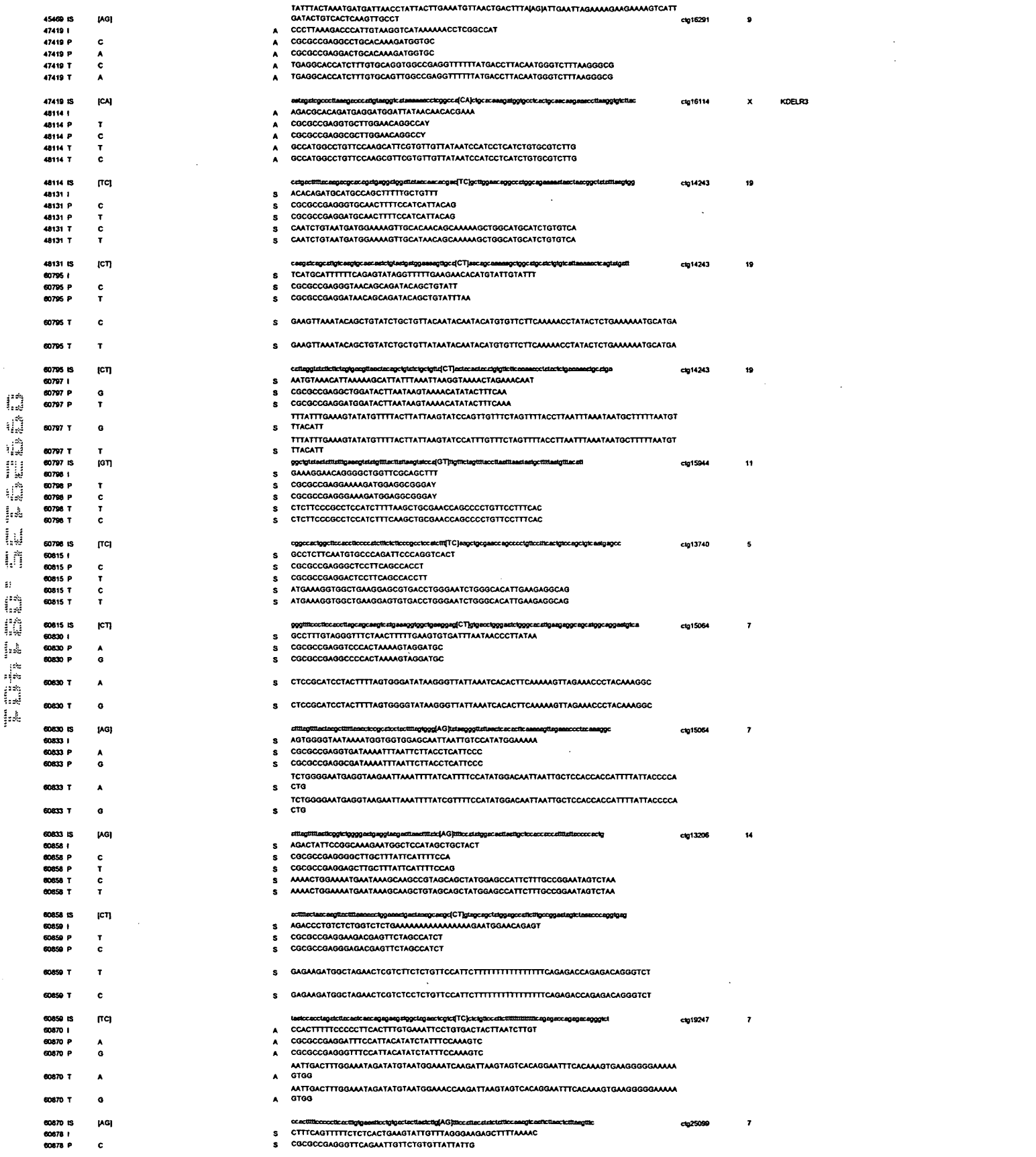
FIGURE 129D

61282 T	C	S	CATAATTAGGACATATTTAGGCCAACAAAATCATTAAAGATTTAAGGTGCTTCTTAAATCTTTGGGAACACACAT				
61282 IS	[AC]		GCCAGTAATTGTCTCTTGTCCCCATTATTTAGGATCATAATTAGGACATATTTAGGCCAA[AC]AAAATCATTAAAGATTT AAGGTGCTTCTTAAATCTTTGGGAACACACATTTCCTTTTGTT	ctg13715	13		
61367 I		A	GTTCCCCACTCTGGAATGCGCTGCCA				
61367 P	C	A	ATGACGTGGCAGACCACTGGCTCCTTCACAY				
61367 P	T	A	CGCGCCGAGGTACTGGCTCCTTCACAAY				
61367 T	C	A	TCCCTTGTGAAGGAGCCAGTGGGCAGCGCATTCCAGAGTGGGGAACAG				
61367 T	T	A	TCCCTTGTGAAGGAGCCAGTAGGCAGCGCATTCCAGAGTGGGGAACAG				
61367 IS	[CT]		ACCCTGCCTTTGAGCGGCCTTGCCTCTCTGTGTCTGTTCCCCACTCTGGAATGCGCTGCC[CT]ACTGGCTCCTTCACA AGGGAGGGTCTGAGGGTGCGGCGGGGCCCACAGGCAGCTGCCGTC	ctg15907	6		
61450 I		A	GGGGACGGGGATGTTAGGAAAAATACAGTAAAGTTGCAT				
61450 P	A	A	CGCGCCGAGGATGAAGAGGTTCATGAAGTATGY				
61450 P	G	A	ATGACGTGGCAGACGTGAAGAGGTTCATGAAGTATY				
61450 T	A	A	AGGACATACTTCATGAACCTCTTCATTGCAACTTTACTGTATTTTTCCTAACATCCCCGTCCCCCC				
61450 T	G	A	AGGACATACTTCATGAACCTCTTCACTGCAACTTTACTGTATTTTTCCTAACATCCCCGTCCCCCC				
61450 IS	[AG]		GGAACTGCCTCAGTGAGAACGGGGGGACGGGGATGTTAGGAAAAATACAGTAAAGTTGCA[AG]TGAAGAGGTTCATG AAGTATGTCCTTGTTCTTTTTGGAAACTCTCGGCAAAGGGCAAACC	ctg16537	20		
61451 I		S	AGTTCTTTTGGCAAATATATTGCATCAAAAATACAGTATTGACAGTGT				
61451 P	C	S	ATGACGTGGCAGACGATAAAACACTGAGGAAATAAATTTTTY				
61451 P	G	S	CGCGCCGAGGCATAAAACACTGAGGAAATAAATTTTTY				
61451 T	C	S	GAAAAAAAATTTATTTCCTCAGTGTTTTATCCACTGTCAATACTGTATTTTTGATGCAATATATTTGCCAAAAGAACTCA				
61451 T	G	S	GAAAAAAAATTTATTTCCTCAGTGTTTTATGCACTGTCAATACTGTATTTTTGATGCAATATATTTGCCAAAAGAACTCA				
61451 IS	[CG]		GTTTGACAAAAAATGGACAGAAGGCAAAATGAAAAAAAATTTATTTCCTCAGTGTTTTAT[CG]CACTGTCAATACTGTAT TTTTGATGCAATATATTTGCCAAAAGAACTCAGCTTTTATTTT	ctg14715	1		
61453 I		S	TTATTATTATTTTTCATTTAACAGAATAAATCAACAGCCTATGTGATAGGAATAACTTTCT				
61453 P	C	S	ATGACGTGGCAGACGTGCTATTTTTGAGAGTCTGAY				
61453 P	T	S	CGCGCCGAGGATGCTATTTTTGAGAGTCTGAY				
61453 T	C	S	CAACTCAGACTCTCAAAAATAGCACGAAAGTTATTCCTATCACATAGGCTGTTGATTTATTCTGTTAAATGAAAAATAAT AATAA				
61453 T	T	S	CAACTCAGACTCTCAAAAATAGCATGAAAGTTATTCCTATCACATAGGCTGTTGATTTATTCTGTTAAATGAAAAATAAT AATAA				
61453 IS	[CT]		TTCTTAGAAGCCAATTGTTTATAACTCTTTCTGTTACAACTCAGACTCTCAAAAATAGCA[CT]GAAAGTTATTCCTATCA CATAGGCTGTTGATTTATTCTGTTAAATGAAAAATAATAATAA	ctg15064	7		
61528 I		A	TGGCACTTGATGGGCGTTCTGAGTTTCAGCT				
61528 P	G	A	ATGACGTGGCAGACGGTTTACACATCATCCGCY				
61528 P	A	A	CGCGCCGAGGAGTTTACACATCATCCGCY				
61528 T	G	A	CATGGCGGATGATGTGTAAACCGCTGAAACTCAGAACGCCCATCAAGTGCCACA				
61528 T	A	A	CATGGCGGATGATGTGTAAACTGCTGAAACTCAGAACGCCCATCAAGTGCCACA				
61528 IS	[GA]		TGCTGCAGAGAGAACGCGCCTTGGTAAGTGTGGCACTTGATGGGCGTTCTGAGTTTCAGC[GA]GTTTACACATCATC CGCCATGCCTCTTGGCACTCCAGTTTTTATTGAGATGTTCTGTCGT	ctg15064	7		
61710 I		A	CCAAAATGGAGACTGGGATGAGTCCAGACAGCTTTTA				
61710 P	C	A	ATGACGTGGCAGACCAGCCCTAGATTTATACACATY				
61710 P	T	A	CGCGCCGAGGTAGCCCTAGATTTATACACATGY				
61710 T	C	A	TGAGCATGTGTATAAATCTAGGGCTGAAAAGCTGTCTGGACTCATCCCAGTCTCCATTTTGGCT				
61710 T	T	A	TGAGCATGTGTATAAATCTAGGGCTAAAAAGCTGTCTGGACTCATCCCAGTCTCCATTTTGGCT				
61710 IS	[CT]		GATCACCATCTCGATCTCTGGAAGCCAAAATGGAGACTGGGATGAGTCCAGACAGCTTTT[CT]AGCCCTAGATTTATA CACATGCTCATGTTGGAGAATAAATATGCATAAATGACTCCAAAC	ctg19	19		
61719 I		A	ACACTTTGTTAATCTTTGCATCATAATCACATAGTGATAAAGGATAAAAATGAC				
61719 P	A	A	CGCGCCGAGGAACCCATCCTTAGCCAY				
61719 P	T	A	ATGACGTGGCAGACTACCCATCCTTAGCCACY				
61719 T	A	A	ATCCGTGGCTAAGGATGGGTTTCATTTTTATCCTTTATCACTATGTGATTATGATGCAAAGATTAACAAAGTGTTA				
61719 T	T	A	ATCCGTGGCTAAGGATGGGTATCATTTTTATCCTTTATCACTATGTGATTATGATGCAAAGATTAACAAAGTGTTA				
61719 IS	[AT]		AAGTTTAACACTTTGTTAATCTTTGCATCATAATCACATAGTGATAAAGGATAAAAATGA[AT]ACCCATCCTTAGCCACG GATCGCTAAGGCAATTACCAATGCTCCCTGGCACCATTTCCTC	ctg_na	NA		
61727 I		S	GCTCTGAAGAGTGGGCTGGTTAACAGGAGCT				
61727 P	T	S	CGCGCCGAGGATTTTCACTGCAGGCAGY				
61727 P	C	S	ATGACGTGGCAGACGTTTTCACTGCAGGCAY				
61727 T	T	S	GAGTCTGCCTGCAGTGAAAATGCTCCTGTTAACCAGCCCACTCTTCAGAGCCT				
61727 T	C	S	GAGTCTGCCTGCAGTGAAAACGCTCCTGTTAACCAGCCCACTCTTCAGAGCCT				
61727 IS	[TC]		AGCCACTCTTCAGATGCACGGGGACTTCACCAAGGCAACCGAGTCTGCCTGCAGTGAAAA[TC]GCTCCTGTTAACCA GCCCACTCTTCAGAGCCTTCTCGGGATGGCTGCCAGCACTGCAGCA	ctg15907	6		
61880 I		S	CAGGACGGTGACACGGGGGCCT				
61880 P	C	S	ATGACGTGGCAGACGGCAGCAGAGGCAY				
61880 P	T	S	CGCGCCGAGGAGCAGCAGAGGCACY				
61880 T	C	S	CGTCGTGCCTCTGCTGCCGGCCCCCGTGTCACCGTCCTGGT				
61880 T	T	S	CGTCGTGCCTCTGCTGCTGGCCCCCGTGTCACCGTCCTGGT				
61880 IS	[CT]		GTGGCTGCAGCACCAGCCTAGGAATTCCCGGGCCCGGGGGCCCCGTCGTGCCTCTGCTGC[CT]GGCCCCCGTGTCA CCGTCCTGGTGCGGGAGTTCGAGGCATTTGACAACGCGGTGCCCGAG	ctg15907	6	MGC2991	
61888 I		S	GAAACAAATGACATGGGCAGTTTGGGTCATCAGACAATT				
61888 P	C	S	ATGACGTGGCAGACGTCATGCTTAATAATTCAGTCCY				
61888 P	T	S	CGCGCCGAGGATCATGCTTAATAATTCAGTCCTY				
61888 T	C	S	GGATAGGACTGAATTATTAAGCATGACATTGTCTGATGACCCAAACTGCCCATGTCATTTGTTTCCA				
61888 T	T	S	GGATAGGACTGAATTATTAAGCATGATATTGTCTGATGACCCAAACTGCCCATGTCATTTGTTTCCA				
61888 IS	[CT]		ACCAGATTGGGAGAGCCAGCACCTAACATATGTGGGATAGGACTGAATTATTAAGCATGA[CT]ATTGTCTGATGACCC AAACTGCCCATGTCATTTGTTTCCAGAAACGAGGACCAATAATTC	ctg13255	6		
61910 I		S	CCTGTTTTCAACAAAGACACATTTATCTGAGGTTGGTTTTATT				
61910 P	T	S	CGCGCCGAGGAAAATGATAATACAGAGACTGGGY				
61910 P	C	S	ATGACGTGGCAGACGAAATGATAATACAGAGACTGGGY				
61910 T	T	S	GTTGCCCAGTCTCTGTATTATCATTTTATAAAACCAACCTCAGATAAATGTGTCTTTGTTGAAAACAGGTA				
61910 T	C	S	GTTGCCCAGTCTCTGTATTATCATTTCATAAAACCAACCTCAGATAAATGTGTCTTTGTTGAAAACAGGTA				
61910 IS	[TC]		TAAAACTGAGCAGCCTGGTCCGGGTGTGCGGAGGGTTGCCCAGTCTCTGTATTATCATTT[TC]ATAAAACCAACCTCA GATAAATGTGTCTTTGTTGAAAACAGGTAAGTTGATCCAGCAACA	ctg16857	14		
62096 I		S	GGGAAGAGTCAGCACAGCTCCCAGGAGT				
62096 P	G	S	CGCGCCGAGGCACAGCCAGACCCCY				
62096 P	C	S	ATGACGTGGCAGACGACAGCCAGACCCCY				
62096 T	G	S	GGTTGGGGTCTGGCTGTGCTCCTGGGAGCTGTGCTGACTCTTCCCGG				
62096 T	C	S	GGTTGGGGTCTGGCTGTCCTCCTGGGAGCTGTGCTGACTCTTCCCGG				
62096 IS	[GC]		CTGTTCCTGGCAGGCATCCGTATCCACCCCTCATCCCACACCTGGTTGGGGTCTGGCTG[GC]CTCCTGGGAGCTGT GCTGACTCTTCCCGGGGCCACCTCTACTGACACCCACACCTGTGCA	MULTIPLE	MULTIPLE	FLJ14126	
62103 I		S	TGGGCTGCTAGCTCAAAAGCTTCAAAGGGAAACT				



62103 P	G	S	CGCGCCGAGGCGCAGCATTCCATGGY			
62103 P	C	S	ATGACGTGGCAGACGGCAGCATTCCATGGY			
62103 T	G	S	TGTTCCATGGAATGCTGCGGTTTCCCTTTGAAGCTTTTGAGCTAGCAGCCCATT			
62103 T	C	S	TGTTCCATGGAATGCTGCCGTTTCCCTTTGAAGCTTTTGAGCTAGCAGCCCATT			
62103 IS	[GC]		CAGTATTTATTTAATTAAATGGTACTCAACTTCAAACTCCACTGTTCCATGGAATGCTGC[GC]GTTTCCCTTTGAAGCTT TTGAGCTAGCAGCCCATTTCCGGTTCTTCATACAGTCAGCGCA	ctg17748	14
62234 I		A	GGAGCAGGACGTGGCCGCCTTT			
62234 P	G	A	ATGACGTGGCAGACGGCGTTCGTGGGAY			
62234 P	A	A	CGCGCCGAGGAGCGTTCGTGGGAAY			
62234 T	G	A	AGGGTTCCCACGAACGCCAAGGCGGCCACGTCCTGCTCCCC			
62234 T	A	A	AGGGTTCCCACGAACGCTAAGGCGGCCACGTCCTGCTCCCC			
62234 IS	[GA]		CCCTAGGACGACAAGCCCAGGGCAGCTTCTTCACCAGGGGGAGCAGGACGTGGCCGCCTT[GA]GCGTTCGTGGGAA CCCTGGGCGGTGACCGCGCCCCCTCACAGACTTGGCACCGCCCAGAG	ctg18433	19
4701 I		A	CCTAAGCTGCACTTTTCCCCCTAGTTGTGTCTTGCT			
4701 P	G	A	CGCGCCGAGGGATGCTAAAGGACGTCATTGCY			
4701 P	C	A	CGCGCCGAGGCATGCTAAAGGACGTCATTGY			
4701 T	G	A	TTGTGCAATGACGTCCTTTAGCATCGCAAGACACAACTAGGGGGAAAAGTGCAGCTTAGGTC			
4701 T	C	A	TTGTGCAATGACGTCCTTTAGCATGGCAAGACACAACTAGGGGGAAAAGTGCAGCTTAGGTC			
4701 IS	[GC]		AGCGCTAGCCTCAATGACGACCTAAGCTGCACTTTTCCCCCTAGTTGTGTCTTGC[GC]ATGCTAAAGGACGTCATTGC ACAATCTTAATAAGGTTTCCAATCAGCCCCACCCGCTCTGGC	ctg21fin5	21
7281 I		S	ACATGTGGCAAATTATATATGCAAAGGATATTCACTGCAAAATATGTTTGA			
7281 P	A	S	CGCGCCGAGGTAACGGCAAAAGATCAGAAACA			
7281 P	G	S	CGCGCCGAGGCAACGGCAAAAGATCAGAAAC			
7281 T	A	S	GGACTGTTTCTGATCTTTTGCCGTTACAAACATATTTTGCAGTGAATATCCTTTGCATATATAATTTGCCACATGT			
7281 T	G	S	GGACTGTTTCTGATCTTTTGCCGTTGCAAACATATTTTGCAGTGAATATCCTTTGCATATATAATTTGCCACATGT			
7281 IS	[AG]		GTATTTAACCAGTCCCCTAATTGATGGACTGTTTCTGATCTTTTGCCGTT[AG]CAAACATATTTTGCAGTGAATATCCTT TGCATATATAATTTGCCACATGT	ctg11	15
14745 I		S	GCACGTGCGGGAGGAAGTGGAGCTT			
14745 P	G	S	CGCGCCGAGGCCCTGTACGCGCG			
14745 P	C	S	CGCGCCGAGGGCCTGTACGCGCG			
14745 T	G	S	GGGCCGCGCGTACAGGGAGCTCCACTTCCTCCCGCACGTGCCC			
14745 T	C	S	GGGCCGCGCGTACAGGCAGCTCCACTTCCTCCCGCACGTGCCC			
14745 IS	[GC]		GGCCTCCCATCGCTCCACGTTGAGGAGCCGACTAGGGCCGCGCGTACAGG[GC]AGCTCCACTTCCTCCCGCACGTG CCCTGCCAAGGACCCCGAGGACCCTCC	ctg22fin3	22
14783 I		A	AATCATTACTGAATTCATCATACTTTTACAGTAAACAGTACTTACTTTGAT			
14783 P	A	A	CGCGCCGAGGATAATAACACATTACACTTAATAGTAGTGAAC			
14783 P	G	A	CGCGCCGAGGGTAATAACACATTACACTTAATAGTAGTGAAC			
14783 T	A	A	TGCAGTTCACTACTATTAAGTGTAATGTGTTATTATTCAAAGTAAGTACTGTTTACTGTAAAAGTATGATGAATTCAGTA ATGATT			
14783 T	G	A	TGCAGTTCACTACTATTAAGTGTAATGTGTTATTACTCAAAGTAAGTACTGTTTACTGTAAAAGTATGATGAATTCAGTA ATGATT			
14783 IS	[AG]		[illegible]	ctg22fin3	22
14924 I		S	AGCCAAGCAGACCTGCCAGAAAGTTTGCAAGATT			
14924 P	T	S	CGCGCCGAGGAATTAATGCCCAATTTATGCACAT			
14924 P	C	S	CGCGCCGAGGGATTAATGCCCAATTTATGCACA			
14924 T	T	S	AGAAATGTGCATAAATTGGGCATTAATTATCTTGCAAACTTTCTGGCAGGTCTGCTTGGCTGG			
14924 T	C	S	AGAAATGTGCATAAATTGGGCATTAATCATCTTGCAAACTTTCTGGCAGGTCTGCTTGGCTGG			
14924 IS	[TC]		[illegible]	ctg17042	11
23406 I		A	CACCCGCACACCTGCCTGAGGGAGT			
23406 P	A	A	CGCGCCGAGGAAGCCCTCCGTCTGC			
23406 P	G	A	CGCGCCGAGGGAGCCCTCCGTCTGC			
23406 T	A	A	GCAGGCAGACGGAGGGCTTCTCCCTCAGGCAGGTGTGCGGGTGGC			
23406 T	G	A	GCAGGCAGACGGAGGGCTCCTCCCTCAGGCAGGTGTGCGGGTGGC			
23406 IS	[AG]		GGTGGAGTTGACAGGCTGGAAGTTGCCACCCGCACACCTGCCTGAGGGAG[AG]AGCCCTCCGTCTGCCTGCAGGCC TGTGTCCTCCCTGCTCTACCCACACTC	ctg15330	9
23501 I		S	TCGCCCCAGCCTCTTTGCTCACGCT			
23501 P	T	S	CGCGCCGAGGAGGGACCCCCAGGAY			
23501 P	C	S	CGCGCCGAGGGGGGACCCCCAGGY			
23501 T	T	S	GGCATCCTGGGGGTCCCTGCGTGAGCAAAGAGGCTGGGGCGAGC			
23501 T	C	S	GGCATCCTGGGGGTCCCCGCGTGAGCAAAGAGGCTGGGGCGAGC			
23501 IS	[TC]		GGTGACGGCTTCAAACCCGGCCTGTGGGCTGGGGGCATCCTGGGGGTCCC[TC]GCGTGAGCAAAGAGGCTGGGGC GAGCCGGGCAGCTTTGAGAAAAGTACAC	ctg16291	9
45286 I		S	CTGGTACGCAAGGTGTGATGGTCGCAGCT			
45286 P	C	S	CGCGCCGAGGGTGCATGGGTGTTGTACA			
45286 P	T	S	CGCGCCGAGGATGCATGGGTGTTGTACAC			
45286 T	C	S	GTGCGTGTACAACACCCATGCACGCTGCGACCATCACACCTTGCGTACCAGTC			
45286 T	T	S	GTGCGTGTACAACACCCATGCATGCTGCGACCATCACACCTTGCGTACCAGTC			
45286 IS	[CT]		CCTCAGTCTGGTCAGATGCCTCCCTTTTGTGCGTGTACAACACCCATGCA[CT]GCTGCGACCATCACACCTTGCGTAC CAGTCAGTGATGCTCTAGTCTCTAT	ctg16291	9
45367 I		A	GGAGGTAAGGTCTATATGAATACTTATTAGTGAACAGCATATAGTTGGTCT			
45367 P	G	A	CGCGCCGAGGGTTGTGGGTAAGTGGGAGA			
45367 P	A	A	CGCGCCGAGGATTGTGGGTAAGTGGGAGA			
45367 T	G	A	GAAATCTCCCACTTACCCACAACGACCAACTATATGCTGTTCACTAATAAGTATTCATATAGACCTTACCTCC			
45367 T	A	A	GAAATCTCCCACTTACCCACAATGACCAACTATATGCTGTTCACTAATAAGTATTCATATAGACCTTACCTCC			
45367 IS	[GA]		GGAGGTAAGGTCTATATGAATACTTATTAGTGAACAGCATATAGTTGGTC[GA]TTGTGGGTAAGTGGGAGATTTCCTT GACAGGTTATTCCCTCAGACACACA	ctg25099	7
45375 I		S	GTGTCTTGGGTATGAATTCTAGCTTTGCTACTCACTCACTATATGACCTT			
45375 P	C	S	CGCGCCGAGGGACAAATCCTTCAAGCCCC			
45375 P	T	S	CGCGCCGAGGAACAAATCCTTCAAGCCCC			
45375 T	C	S	CACAGGGGCTTGAAGGATTTGTCAGGTCATATAGTGAGTGAGTAGCAAAGCTAGAATTCATACCCAAGACACT			
45375 T	T	S	CACAGGGGCTTGAAGGATTTGTTAGGTCATATAGTGAGTGAGTAGCAAAGCTAGAATTCATACCCAAGACACT			
45375 IS	[CT]		CCTCATGCTTAGGGGAAACCTCAGTAAGCACAGGGGCTTGAAGGATTTGT[CT]AGGTCATATAGTGAGTGAGTAGCAA AGCTAGAATTCATACCCAAGACACT	MULTIPLE	MULTIPLE
45469 I		S	AGGCAACTTGAGTGACAGTATCAATGACTTTTCTTCTTTTCTAATTCAATA			
45469 P	A	S	CGCGCCGAGGTTAAAGTCAGTTAACATTTCAAGTAATAGG			
45469 P	G	S	CGCGCCGAGGCTAAAGTCAGTTAACATTTCAAGTAATAGG			
45469 T	A	S	TTAACCTATTACTTGAAATGTTAACTGACTTTAAATTGAATTAGAAAAGAAGAAAAGTCATTGATACTGTCACTCAAGTT GCCT			
45469 T	G	S	TTAACCTATTACTTGAAATGTTAACTGACTTTAGATTGAATTAGAAAAGAAGAAAAGTCATTGATACTGTCACTCAAGTT GCCT			

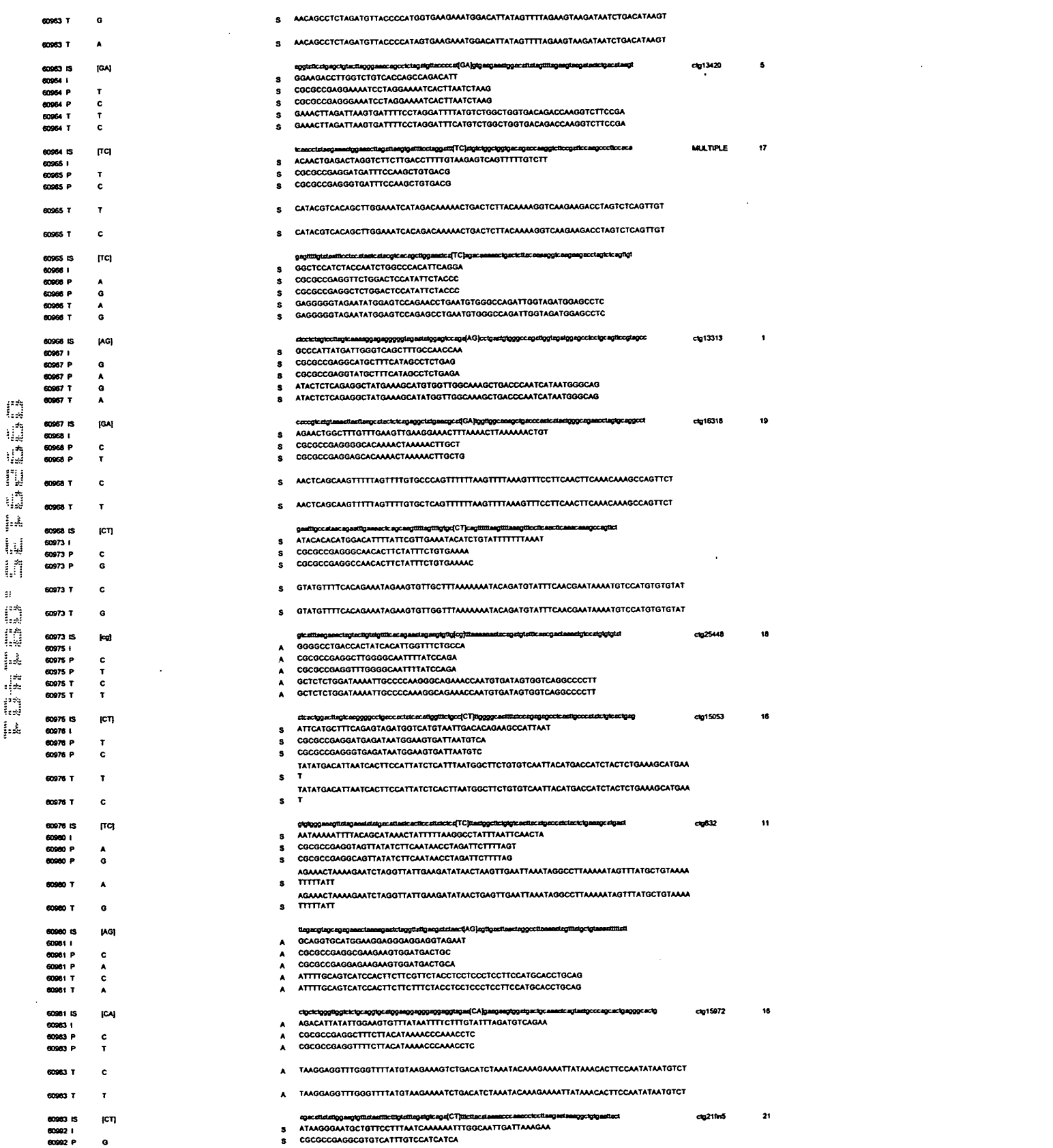
FIGURE 129D


45469 tS [AG] TATTTACTAAATGATGATTAACCTATTACTTGAAATGTTAACTGACTTTA[AG]ATTGAATTAGAAAAGAAGAAAAGTCATT GATACTGTCACTCAAGTTGCCT ctg16291 9
47419 I A CCCTTAAAGACCCATTGTAAGGTCATAAAAAAACCTCGGCCAT
47419 P C A CGCGCCGAGGCCTGCACAAAGATGGTGC
47419 P A A CGCGCCGAGGACTGCACAAAGATGGTGC
47419 T C A TGAGGCACCATCTTTGTGCAGGTGGCCGAGGTTTTTTATGACCTTACAATGGGTCTTTAAGGGCG
47419 T A A TGAGGCACCATCTTTGTGCAGTTGGCCGAGGTTTTTTATGACCTTACAATGGGTCTTTAAGGGCG
47419 tS [CA] ctg16114 X KDELR3
48114 I A AGACGCACAGATGAGGATGGATTATAACAACACGAAA
48114 P T A CGCGCCGAGGTGCTTGGAACAGGCCAY
48114 P C A CGCGCCGAGGCGCTTGGAACAGGCCY
48114 T T A GCCATGGCCTGTTCCAAGCATTCGTGTTGTTATAATCCATCCTCATCTGTGCGTCTTG
48114 T C A GCCATGGCCTGTTCCAAGCGTTCGTGTTGTTATAATCCATCCTCATCTGTGCGTCTTG
48114 tS [TC] ctg14243 19
48131 I S ACACAGATGCATGCCAGCTTTTTGCTGTTT
48131 P C S CGCGCCGAGGGTGCAACTTTTCCATCATTACAG
48131 P T S CGCGCCGAGGATGCAACTTTTCCATCATTACAG
48131 T C S CAATCTGTAATGATGGAAAAGTTGCACAACAGCAAAAAGCTGGCATGCATCTGTGTCA
48131 T T S CAATCTGTAATGATGGAAAAGTTGCATAACAGCAAAAAGCTGGCATGCATCTGTGTCA
48131 tS [CT] ctg14243 19
60795 I S TCATGCATTTTTTCAGAGTATAGGTTTTTGAAGAACACATGTATTGTATTT
60795 P C S CGCGCCGAGGGTAACAGCAGATACAGCTGTATT
60795 P T S CGCGCCGAGGATAACAGCAGATACAGCTGTATTTAA
60795 T C S GAAGTTAAATACAGCTGTATCTGCTGTTACAATACAATACATGTGTTCTTCAAAAACCTATACTCTGAAAAAATGCATGA
60795 T T S GAAGTTAAATACAGCTGTATCTGCTGTTATAATACAATACATGTGTTCTTCAAAAACCTATACTCTGAAAAAATGCATGA
60795 tS [CT] ctg14243 19
60797 I S AATGTAAACATTAAAAAGCATTATTTAAATTAAGGTAAAACTAGAAACAAT
60797 P G S CGCGCCGAGGCTGGATACTTAATAAGTAAAACATATACTTTCAA
60797 P T S CGCGCCGAGGATGGATACTTAATAAGTAAAACATATACTTTCAAA
60797 T G S TTTATTTGAAAGTATATGTTTTACTTATTAAGTATCCAGTTGTTTCTAGTTTTACCTTAATTTAAATAATGCTTTTTAATGT TTACATT
60797 T T S TTTATTTGAAAGTATATGTTTTACTTATTAAGTATCCATTTGTTTCTAGTTTTACCTTAATTTAAATAATGCTTTTTAATGT TTACATT
60797 tS [GT] ctg15944 11
60798 I S GAAAGGAACAGGGGCTGGTTCGCAGCTTT
60798 P T S CGCGCCGAGGAAAAGATGGAGGCGGGAY
60798 P C S CGCGCCGAGGGAAAGATGGAGGCGGGAY
60798 T T S CTCTTCCCGCCTCCATCTTTTAAGCTGCGAACCAGCCCCTGTTCCTTTCAC
60798 T C S CTCTTCCCGCCTCCATCTTTCAAGCTGCGAACCAGCCCCTGTTCCTTTCAC
60798 tS [TC] ctg13740 5
60815 I S GCCTCTTCAATGTGCCCAGATTCCCAGGTCACT
60815 P C S CGCGCCGAGGGCTCCTTCAGCCACCT
60815 P T S CGCGCCGAGGACTCCTTCAGCCACCTT
60815 T C S ATGAAAGGTGGCTGAAGGAGCGTGACCTGGGAATCTGGGCACATTGAAGAGGCAG
60815 T T S ATGAAAGGTGGCTGAAGGAGTGTGACCTGGGAATCTGGGCACATTGAAGAGGCAG
60815 tS [CT] ctg15064 7
60830 I S GCCTTTGTAGGGTTTCTAACTTTTTGAAGTGTGATTTAATAACCCTTATAA
60830 P A S CGCGCCGAGGTCCCACTAAAAGTAGGATGC
60830 P G S CGCGCCGAGGCCCCACTAAAAGTAGGATGC
60830 T A S CTCCGCATCCTACTTTTAGTGGGATATAAGGGTTATTAAATCACACTTCAAAAAGTTAGAAACCCTACAAAGGC
60830 T G S CTCCGCATCCTACTTTTAGTGGGGTATAAGGGTTATTAAATCACACTTCAAAAAGTTAGAAACCCTACAAAGGC
60830 tS [AG] ctg15064 7
60833 I S AGTGGGGTAATAAAATGGTGGTGGAGCAATTAATTGTCCATATGGAAAAA
60833 P A S CGCGCCGAGGTGATAAAATTTAATTCTTACCTCATTCCC
60833 P G S CGCGCCGAGGCGATAAAATTTAATTCTTACCTCATTCCC
60833 T A S TCTGGGGAATGAGGTAAGAATTAAATTTTATCATTTTCCATATGGACAATTAATTGCTCCACCACCATTTTATTACCCCA CTG
60833 T G S TCTGGGGAATGAGGTAAGAATTAAATTTTATCGTTTTCCATATGGACAATTAATTGCTCCACCACCATTTTATTACCCCA CTG
60833 tS [AG] ctg13206 14
60858 I S AGACTATTCCGGCAAAGAATGGCTCCATAGCTGCTACT
60858 P C S CGCGCCGAGGGGCTTGCTTTATTCATTTTCCA
60858 P T S CGCGCCGAGGAGCTTGCTTTATTCATTTTCCAG
60858 T C S AAAACTGGAAAATGAATAAAGCAAGCCGTAGCAGCTATGGAGCCATTCTTTGCCGGAATAGTCTAA
60858 T T S AAAACTGGAAAATGAATAAAGCAAGCTGTAGCAGCTATGGAGCCATTCTTTGCCGGAATAGTCTAA
60858 tS [CT] ctg13206 14
60859 I S AGACCCTGTCTCTGGTCTCTGAAAAAAAAAAAAAAAAAGAATGGAACAGAGT
60859 P T S CGCGCCGAGGAAGACGAGTTCTAGCCATCT
60859 P C S CGCGCCGAGGGAGACGAGTTCTAGCCATCT
60859 T T S GAGAAGATGGCTAGAACTCGTCTTCTCTGTTCCATTCTTTTTTTTTTTTTTTTTCAGAGACCAGAGACAGGGTCT
60859 T C S GAGAAGATGGCTAGAACTCGTCTCCTCTGTTCCATTCTTTTTTTTTTTTTTTTTCAGAGACCAGAGACAGGGTCT
60859 tS [TC] ctg19247 7
60870 I A CCACTTTTTCCCCCTTCACTTTGTGAAATTCCTGTGACTACTTAATCTTGT
60870 P A A CGCGCCGAGGATTTCCATTACATATCTATTTCCAAAGTC
60870 P G A CGCGCCGAGGGTTTCCATTACATATCTATTTCCAAAGTC
60870 T A A AATTGACTTTGGAAATAGATATGTAATGGAAATCAAGATTAAGTAGTCACAGGAATTTCACAAAGTGAAGGGGGAAAAA GTGG
60870 T G A AATTGACTTTGGAAATAGATATGTAATGGAAACCAAGATTAAGTAGTCACAGGAATTTCACAAAGTGAAGGGGGAAAAA GTGG
60870 tS [AG] ctg25099 7
60878 I S CTTTCAGTTTTTCTCTCACTGAAGTATTGTTTAGGGAAGAGCTTTTAAAAC
60878 P C S CGCGCCGAGGGTTCAGAATTGTTCTGTGTTATTATTG

60878 P	A	S	CGCGCCGAGGTTTCAGAATTGTTCTGTGTTATTATTGC			
60878 T	C	S	AATTGCAATAATAACACAGAACAATTCTGAACTTTTAAAAGCTCTTCCCTAAACAATACTTCAGTGAGAGAAAAACTGAA AG			
60878 T	A	S	AATTGCAATAATAACACAGAACAATTCTGAAATTTTAAAAGCTCTTCCCTAAACAATACTTCAGTGAGAGAAAAACTGAA AG			
60878 IS	[CA]		nnnnnnnnnnnnnttactaattgcaatastaacacagaacaattictgaa[CA]tttaaaagctcttcccta	ctg25099	7	
60903 I		S	AGCACAAAGGGTGATAACCCTCACTCTGCAATATGTGTGA			
60903 P	G	S	CGCGCCGAGGCCTCTTAACCCCTATCACTTCA			
60903 P	A	S	CGCGCCGAGGTCTCTTAACCCCTATCACTTCA			
60903 T	G	S	AATGTGAAGTGATAGGGGTTAAGAGGCACACATATTGCAGAGTGAGGGTTATCACCCTTTGTGCTGG			
60903 T	A	S	AATGTGAAGTGATAGGGGTTAAGAGACACACATATTGCAGAGTGAGGGTTATCACCCTTTGTGCTGG			
60903 IS	[GA]		agctgtgagtgactagattttataaatgtgaagtgatagggattaagag[GA]cacacatattgcagagtgagggttatcaccctttgtgctgggtcagactg	ctg18037	7	
60904 I		A	GGGAAAGAGAATTATTAGGACAGGCAGGACGTTGTGCAGT			
60904 P	G	A	CGCGCCGAGGGGCCTCGGATCCTGG			
60904 P	C	A	CGCGCCGAGGCGCCTCGGATCCTGG			
60904 T	G	A	TTGCCCAGGATCCGAGGCCCTGCACAACGTCCTGCCTGTCCTAATAATTCTCTTTCCCAG			
60904 T	C	A	TTGCCCAGGATCCGAGGCGCTGCACAACGTCCTGCCTGTCCTAATAATTCTCTTTCCCAG			
60904 IS	[GC]		tactggatgctgggaaagagaattattaggacaggcaggacgtagtgcag[GC]gcctcggatcctgggcaaagtatagggcgtggaagctcctattactctg			
60913 I		A	CACATAAGCAAGTGCTCACATCTTGTCTCTCCCTGCT			
60913 P	G	A	CGCGCCGAGGGAGTACCTGATTCTCCGTAGAT			
60913 P	A	A	CGCGCCGAGGAAGTACCTGATTCTCCGTAGAT			
60913 T	G	A	CCAAATCTACGGAGAATCAGGTACTCGCAGGGAGAGACAAGATGTGAGCACTTGCTTATGTGGG			
60913 T	A	A	CCAAATCTACGGAGAATCAGGTACTTGCAGGGAGAGACAAGATGTGAGCACTTGCTTATGTGGG			
60913 IS	[GA]		ggctgctctgcccccatatagcaagtgctcacactctgtctctccctgc[GA]agtccctgattctccgtagattgggagctagttcgtgcctttcatctc	ctg15590	7	
60914 I		S	AAGACAAACTTTTGGCTTTGTTTTCCATTTCATAGTTTTTGTTCTTTAGAT			
60914 P	T	S	CGCGCCGAGGATATCCATCTTTCTACTTTATTTGGATTG			
60914 P	C	S	CGCGCCGAGGGTATCCATCTTTCTACTTTATTTGGATTG			
60914 T	T	S	ATCACAATCCAAATAAAGTAGAAAGATGGATATTCTAAAGAACAAAAACTATGAAATGGAAAACAAAGCCAAAAGTTTGT CTT			
60914 T	C	S	ATCACAATCCAAATAAAGTAGAAAGATGGATACTCTAAAGAACAAAAACTATGAAATGGAAAACAAAGCCAAAAGTTTGT CTT			
60914 IS	[TC]		ctggagaaatgaaccaactcacaatccccaaataaagtagaaagatggaatc[TC]actaaagaaccaaaaactatgaaatggaaaccaaagccaaaagtttgtctt	ctg15804	2	
60915 I		A	CTTGTTTATGATGTTTTTTGACATACAATAAGCTTTAACTTTTAATTTAGA			
60915 P	T	A	CGCGCCGAGGTGAAAGAATGTCGTGCTTTCA			
60915 P	C	A	CGCGCCGAGGCGAAAGAATGTCGTGCTTTC			
60915 T	T	A	TAAATGAAAGCACGACATTCTTTCACTAAATTAAAAGTTAAAGCTTATTGTATGTCAAAAAACATCATAAACAAG			
60915 T	C	A	TAAATGAAAGCACGACATTCTTTCGCTAAATTAAAAGTTAAAGCTTATTGTATGTCAAAAAACATCATAAACAAG			
60915 IS	[TC]		ctgttatgatgttttgacatacaataagctttaacttttaattta[TC]gaaagaatgtcgtgctttcattatggttgtattttcatgtctagta	ctg14708	2	
60935 I		S	TCAGGTATTGTACTAAGTGCTAACTTCCTGTACCTCATCTTCCATTTTCTA			
60935 P	A	S	CGCGCCGAGGTAACTGTCCCGCAGACA			
60935 P	G	S	CGCGCCGAGGCAACTGTCCCGCAGAC			
60935 T	A	S	AACCTGTCTGCGGGACAGTTAAGAAAATGGAAGATGAGGTACAGGAAGTTAGCACTTAGTACAATACCTGA			
60935 T	G	S	AACCTGTCTGCGGGACAGTTGAGAAAATGGAAGATGAGGTACAGGAAGTTAGCACTTAGTACAATACCTGA			
60935 IS	[ag]		tgcgctacgtctcagcttcattatctataaaaacctgtctgcgggacagtt[ag]agaaaatggaagatgaggtacaggaagttagcacttagtacaatacctga	ctg14708	2	
60940 I		S	AGGAGGTCTTGAGAAGAAAATGCCCACTCTCCCAATTCA			
60940 P	A	S	CGCGCCGAGGTTCTGCCTCAGCCTTG			
60940 P	G	S	CGCGCCGAGGCTCTGCCTCAGCCTTG			
60940 T	A	S	CTAGCAAGGCTGAGGCAGAAGAATTGGGAGAGTGGGCATTTTCTTCTCAAGACCTCCTGT			
60940 T	G	S	CTAGCAAGGCTGAGGCAGAGGAATTGGGAGAGTGGGCATTTTCTTCTCAAGACCTCCTGT			
60940 IS	[ag]		gtggcgaggccgctgggctggatgcagagctctagcaaggctgaggcagaa[ag]gaatgggagagtgggcatttcttctcaagacctcctgtctctctact			
60941 I		S	TGAAGGGCAAAAGTTTCAATTGGCCTGCTTTCTCTGGT			
60941 P	G	S	CGCGCCGAGGCCTTCTGTTATTTCCAGGTGC			
60941 P	T	S	CGCGCCGAGGACTTCTGTTATTTCCAGGTGC			
60941 T	G	S	ATCAGCACCTGGAAATAACAGAAGGCCAGAGAAAGCAGGCCAATTGAAACTTTTGCCCTTCATA			
60941 T	T	S	ATCAGCACCTGGAAATAACAGAAGTCCAGAGAAAGCAGGCCAATTGAAACTTTTGCCCTTCATA			
60941 IS	[gt]		agtaacagggagtttttgcactgagaatcagccccttggaactaccagaag[gt]ccagagaaagccaggccaattgaaacttttgcccttcatttgaaagcag	ctg16564	19	
60947 I		A	GCCTCAAACCTTTTATTCATGATGCATCCCAAAAGGAATGCTA			
60947 P	C	A	CGCGCCGAGGCTCCTCCAGGGTACCTTC			
60947 P	T	A	CGCGCCGAGGTTCCTCCAGGGTACCTTC			
60947 T	C	A	CCGAGAAGGTACCCTGGAGGAAGCATTCCTTTTGGGATGCATCATGAATAAAAGGTTTGAGGCAG			
60947 T	T	A	CCGAGAAGGTACCCTGGAGGAAAGCATTCCTTTTGGGATGCATCATGAATAAAAGGTTTGAGGCAG			
60947 IS	[CT]		tcattgctgcctcaaccctttatcatgatgccatcccaaaaggaatgc[CT]tcctccagggtaccttcttcgcccattttctcctaaactagtttcctt	ctg16235	17	
60950 I		A	AGAACAAGAAGGATAGAAATAGGAAAAGGTGAAAAATCAGTAAGACAATAA			
60950 P	C	A	CGCGCCGAGGCATTGGAAAGGAGTACAGTAGTT			
60950 P	T	A	CGCGCCGAGGTATTGGAAAGGAGTACAGTAGTTG			
60950 T	C	A	CTTCCAACTACTGTACTCCTTTCCAATGTATTGTCTTACTGATTTTTCACCTTTTCCTATTTCTATCCTTCTTGTTCT			
60950 T	T	A	CTTCCAACTACTGTACTCCTTTCCAATATATTGTCTTACTGATTTTTCACCTTTTCCTATTTCTATCCTTCTTGTTCT			
60950 IS	[CT]		agaccagcaggctatgaaatagggaaaggtgaaaaatcagtaagacaatc[CT]attggaaaggagtacagtagttggaagaattaatgatccactatttctag	MULTIPLE	MULTIPLE	
60951 I		A	CCTGAATGTGGACAAAGTAAAAGACAGAAAAGAGAGTGCTGGTGAAATTAA			
60951 P	T	A	CGCGCCGAGGTATGCAGCCTCTTTTTATTAACACT			
60951 P	C	A	CGCGCCGAGGCATGCAGCCTCTTTTTATTAACAC			
60951 T	T	A	CTTGAGTGTTAATAAAAAGAGGCTGCATATAATTTCACCAGCACTCTCTTTCTGTCTTTTACTTTGTCCACATTCAGGA			
60951 T	C	A	CTTGAGTGTTAATAAAAAGAGGCTGCATGTAATTTCACCAGCACTCTCTTTCTGTCTTTTACTTTGTCCACATTCAGGA			
60951 IS	[TC]		tcctgaatgtggacaaagtaaaagacagaaagagagtgctggtgaaattc[TC]atgcagcctctttttatgaccactcaagttactctagtgtttaaaaat	ctg13420	5	
60963 I		S	ACTTATGTCAGATTATCTTACTTCTAAAACTATAATGTCCATTTCTTCACA			
60963 P	G	S	CGCGCCGAGGCATGGGGTAACATCTAGAGGY			
60963 P	A	S	CGCGCCGAGGTATGGGGTAACATCTAGAGGCY			

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FIGURE 129D


60963 T G S AACAGCCTCTAGATGTTACCCCATGGTGAAGAAATGGACATTATAGTTTTAGAAGTAAGATAATCTGACATAAGT
60963 T A S AACAGCCTCTAGATGTTACCCCATAGTGAAGAAATGGACATTATAGTTTTAGAAGTAAGATAATCTGACATAAGT
60963 IS [GA] ctg13420 5
60964 I S GGAAGACCTTGGTCTGTCACCAGCCAGACATT
60964 P T S CGCGCCGAGGAAAATCCTAGGAAAATCACTTAATCTAAG
60964 P C S CGCGCCGAGGGAAATCCTAGGAAAATCACTTAATCTAAG
60964 T T S GAAACTTAGATTAAGTGATTTTCCTAGGATTTTATGTCTGGCTGGTGACAGACCAAGGTCTTCCGA
60964 T C S GAAACTTAGATTAAGTGATTTTCCTAGGATTTCATGTCTGGCTGGTGACAGACCAAGGTCTTCCGA
60964 IS [TC] MULTIPLE 17
60965 I S ACAACTGAGACTAGGTCTTCTTGACCTTTTGTAAGAGTCAGTTTTTGTCTT
60965 P T S CGCGCCGAGGATGATTTCCAAGCTGTGACG
60965 P C S CGCGCCGAGGGTGATTTCCAAGCTGTGACG
60965 T T S CATACGTCACAGCTTGGAAATCATAGACAAAAACTGACTCTTACAAAAGGTCAAGAAGACCTAGTCTCAGTTGT
60965 T C S CATACGTCACAGCTTGGAAATCACAGACAAAAACTGACTCTTACAAAAGGTCAAGAAGACCTAGTCTCAGTTGT
60965 IS [TC] ctg13313 1
60966 I S GGCTCCATCTACCAATCTGGCCCACATTCAGGA
60966 P A S CGCGCCGAGGTTCTGGACTCCATATTCTACCC
60966 P G S CGCGCCGAGGCTCTGGACTCCATATTCTACCC
60966 T A S GAGGGGGTAGAATATGGAGTCCAGAACCTGAATGTGGGCCAGATTGGTAGATGGAGCCTC
60966 T G S GAGGGGGTAGAATATGGAGTCCAGAGCCTGAATGTGGGCCAGATTGGTAGATGGAGCCTC
60968 IS [AG] ctg16318 19
60967 I S GCCCATTATGATTGGGTCAGCTTTGCCAACCAA
60967 P G S CGCGCCGAGGCATGCTTTCATAGCCTCTGAG
60967 P A S CGCGCCGAGGTATGCTTTCATAGCCTCTGAGA
60967 T G S ATACTCTCAGAGGCTATGAAAGCATGTGGTTGGCAAAGCTGACCCAATCATAATGGGCAG
60967 T A S ATACTCTCAGAGGCTATGAAAGCATATGGTTGGCAAAGCTGACCCAATCATAATGGGCAG
60967 IS [GA] ctg16318 19
60968 I S AGAACTGGCTTTGTTTGAAGTTGAAGGAAACTTTAAAACTTAAAAAACTGT
60968 P C S CGCGCCGAGGGGCACAAAACTAAAAACTTGCT
60968 P T S CGCGCCGAGGAGCACAAAACTAAAAACTTGCTG
60968 T C S AACTCAGCAAGTTTTTAGTTTTGTGCCCAGTTTTTTAAGTTTTAAAGTTTCCTTCAACTTCAAACAAAGCCAGTTCT
60968 T T S AACTCAGCAAGTTTTTAGTTTTGTGCTCAGTTTTTTAAGTTTTAAAGTTTCCTTCAACTTCAAACAAAGCCAGTTCT
60968 IS [CT] ctg25448 18
60973 I S ATACACACATGGACATTTTATTCGTTGAAATACATCTGTATTTTTTTAAAT
60973 P C S CGCGCCGAGGGCAACACTTCTATTTCTGTGAAAA
60973 P G S CGCGCCGAGGCCAACACTTCTATTTCTGTGAAAAC
60973 T C S GTATGTTTTCACAGAAATAGAAGTGTTGCTTTAAAAAAATACAGATGTATTTCAACGAATAAAATGTCCATGTGTGTAT
60973 T G S GTATGTTTTCACAGAAATAGAAGTGTTGGTTTAAAAAAATACAGATGTATTTCAACGAATAAAATGTCCATGTGTGTAT
60973 IS [cg] ctg15053 16
60975 I A GGGGCCTGACCACTATCACATTGGTTTCTGCCA
60975 P C A CGCGCCGAGGCTTGGGGCAATTTTATCCAGA
60975 P T A CGCGCCGAGGTTTGGGGCAATTTTATCCAGA
60975 T C A GCTCTCTGGATAAAATTGCCCCAAGGGCAGAAACCAATGTGATAGTGGTCAGGCCCCTT
60975 T T A GCTCTCTGGATAAAATTGCCCCAAAGGCAGAAACCAATGTGATAGTGGTCAGGCCCCTT
60975 IS [CT] ctg15053 16
60976 I S ATTCATGCTTTCAGAGTAGATGGTCATGTAATTGACACAGAAGCCATTAAT
60976 P T S CGCGCCGAGGATGAGATAATGGAAGTGATTAATGTCA
60976 P C S CGCGCCGAGGGTGAGATAATGGAAGTGATTAATGTC
60976 T T S TATATGACATTAATCACTTCCATTATCTCATTTAATGGCTTCTGTGTCAATTACATGACCATCTACTCTGAAAGCATGAA T
60976 T C S TATATGACATTAATCACTTCCATTATCTCACTTAATGGCTTCTGTGTCAATTACATGACCATCTACTCTGAAAGCATGAA T
60976 IS [TC] ctg632 11
60980 I S AATAAAAATTTTACAGCATAAACTATTTTTAAGGCCTATTTAATTCAACTA
60980 P A S CGCGCCGAGGTAGTTATATCTTCAATAACCTAGATTCTTTTAGT
60980 P G S CGCGCCGAGGCAGTTATATCTTCAATAACCTAGATTCTTTTAG
60980 T A S AGAAACTAAAAGAATCTAGGTTATTGAAGATATAACTAAGTTGAATTAAATAGGCCTTAAAAATAGTTTATGCTGTAAAA TTTTTATT
60980 T G S AGAAACTAAAAGAATCTAGGTTATTGAAGATATAACTGAGTTGAATTAAATAGGCCTTAAAAATAGTTTATGCTGTAAAA TTTTTATT
60980 IS [AG] ctg15972 16
60981 I A GCAGGTGCATGGAAGGAGGGAGGAGGTAGAAT
60981 P C A CGCGCCGAGGCGAAGAAGTGGATGACTGC
60981 P A A CGCGCCGAGGAGAAGAAGTGGATGACTGCA
60981 T C A ATTTTGCAGTCATCCACTTCTTCGTTCTACCTCCTCCCTCCTTCCATGCACCTGCAG
60981 T A A ATTTTGCAGTCATCCACTTCTTCTTTCTACCTCCTCCCTCCTTCCATGCACCTGCAG
60981 IS [CA] ctg15972 16
60983 I A AGACATTATATTGGAAGTGTTTATAATTTTCTTTGTATTTAGATGTCAGAA
60983 P C A CGCGCCGAGGCTTTCTTACATAAAACCCAAACCTC
60983 P T A CGCGCCGAGGTTTTCTTACATAAAACCCAAACCTC
60983 T C A TAAGGAGGTTTGGGTTTTATGTAAGAAAGTCTGACATCTAAATACAAAGAAAATTATAAACACTTCCAATATAATGTCT
60983 T T A TAAGGAGGTTTGGGTTTTATGTAAGAAAATCTGACATCTAAATACAAAGAAAATTATAAACACTTCCAATATAATGTCT
60983 IS [CT] ctg21fin5 21
60992 I S ATAAGGGAATGCTGTTCCTTTAATCAAAAAATTTGGCAATTGATTAAAGAA
60992 P G S CGCGCCGAGGCGTGTCATTTGTCCATCATCA
60992 P A S CGCGCCGAGGTGTGTCATTTGTCCATCATCAT

60992 T	G	S	AGTGATGATGATGGACAAATGACACGTCTTTAATCAATTGCCAAATTTTTTGATTAAAGGAACAGCATTCCCTTAT			
60992 T	A	S	AGTGATGATGATGGACAAATGACACATCTTTAATCAATTGCCAAATTTTTTGATTAAAGGAACAGCATTCCCTTAT			
60992 IS	[GA]		atattatatgaacaaaatgcctatagtgatgatgatggcaaaatgacac[GA]tctttaatcaattgccaaatttttgattaaaggaacagcatttccctta	ctg21fin5	21	
61010 I		A	GCACTAGGCAAGGGAAATTTGAATGAGGCACTAT			
61010 P	G	A	CGCGCCGAGGGGCAAGAGAAATTTGAATGAGTG			
61010 P	A	A	CGCGCCGAGGAGCAAGAGAAATTTGAATGAGTG			
61010 T	G	A	TTTCCACTCATTCAAATTTCTCTTGCCTAGTGCCTCATTCAAATTTCCCTTGCCTAGTGCAT			
61010 T	A	A	TTTCCACTCATTCAAATTTCTCTTGCTTAGTGCCTCATTCAAATTTCCCTTGCCTAGTGCAT			
61010 IS	[GA]		ttcataaaatgattaatgcactaggcaagggaaattgaatgaggcactc[GA]gcaagagaaattgaatgagtggaaactagaattgggctccttgatctt	ctg21fin5	21	
61029 I		A	AGTCTAGAGAATGCTTGAAGAAGGGAATCAAAGCAATAAATAAATAATCAC			
61029 P	A	A	CGCGCCGAGGATTGTATTATTTCACCTTCTTTGTAAGTG			
61029 P	T	A	CGCGCCGAGGTTTGTATTATTTCACCTTCTTTGTAAGTG			
61029 T	A	A	TAATCACTTACAAAGAAGGTGAAATAATACAATTGATTATTTATTTATTGCTTTGATTCCCTTCTTCAAGCATTCTCTAGA CT			
61029 T	T	A	TAATCACTTACAAAGAAGGTGAAATAATACAAATGATTATTTATTTATTGCTTTGATTCCCTTCTTCAAGCATTCTCTAGA CT			
61029 IS	[AT]		agtctagaagatgcttgaagaagggactcaaagcaataaataaataatcac[AT]tgtgttatttcacctcttttgtaagtgattaattgattaaaggggagac	ctg21fin5	21	
61030 I		A	TTCTGATTATAGAAACAATGAATATCATTAAAATAAATGAAAACTGATGTTT			
61030 P	A	A	CGCGCCGAGGACAGTAGAAAACATTTTCAAAATTTAAAGATATT			
61030 P	C	A	CGCGCCGAGGCCAGTAGAAAACATTTTCAAAATTTAAAGAT			
61030 T	A	A	AAATAATATCTTTAAATTTTGAAAATGTTTTCTACTGTACATCAGTTTTCATTTATTTTAATGATATTCATTGTTTCTATAA TCAGAA			
61030 T	C	A	AAATAATATCTTTAAATTTTGAAAATGTTTTCTACTGGACATCAGTTTTCATTTATTTTAATGATATTCATTGTTTCTATAA TCAGAA			
61030 IS	[AC]		ttctgatatagaaccaatgaatatcatcaaaataactgaaaactgatgt[AC]cagtagaaaaccatttcaaaatttaaagatatattaaaatgggagac	ctg15907	6	
61032 I		S	TGAAATGTGATGGCTATTTTGTGTAATCCTTTAAAATCCCAATAGAATTAT			
61032 P	C	S	CGCGCCGAGGGCACTGTCTAGGAGGACTAC			
61032 P	T	S	CGCGCCGAGGACACTGTCTAGGAGGACTAC			
61032 T	C	S	AAGTGTAGTCCTCCTAGACAGTGCTAATTCTATTGGGATTTTAAAGGATTACACAAAATAGCCATCACATTTCA			
61032 T	T	S	AAGTGTAGTCCTCCTAGACAGTGTTAATTCTATTGGGATTTTAAAGGATTACACAAAATAGCCATCACATTTCA			
61032 IS	[ct]		ataattatttgaaaatattattccaaagtgtagtcctcctagacagtg[ct]aattctattgggattttaaaggattacacaaaatagccatcacattca	ctg45	8	
61056 I		A	GCCCTCAGAAAGACCTTTCCAGCAGGCTTGGT			
61056 P	A	A	CGCGCCGAGGATTCCTGCCTCTTGGGTY			
61056 P	G	A	CGCGCCGAGGGTTCCTGCCTCTTGGGTY			
61056 T	A	A	GACCACCCAAGAGGCAGGAATCCAAGCCTGCTGGAAAGGTCTTTCTGAGGGCTG			
61056 T	G	A	GACCACCCAAGAGGCAGGAACCCAAGCCTGCTGGAAAGGTCTTTCTGAGGGCTG			
61056 IS	[AG]		gtccatggtgctgggtccagcccticagaaagacctttccagcaggcttgg[AG]ttcctgcctctgggtggtctgtaaactgtcccctggctggtgtttggg			
61062 I		A	ATCTCCTCCTTGAGACAGATTCAACTAGCCTATCAAAAATCTTGGATACAT			
61062 P	G	A	CGCGCCGAGGGTTCATTCTTGTGAAAGAGCAAG			
61062 P	A	A	CGCGCCGAGGATTCATTCTTGTGAAAGAGCAAG			
61062 T	G	A	TTCCCTTGCTCTTTCACAAGAATGAACTGTATCCAAGATTTTTGATAGGCTAGTTGAATCTGTCTCAAGGAGGAGAT			
61062 T	A	A	TTCCCTTGCTCTTTCACAAGAATGAATTGTATCCAAGATTTTTGATAGGCTAGTTGAATCTGTCTCAAGGAGGAGAT			
61062 IS	[GA]		atctcctccttgagacagatttcaactagcctatcaaaaatcttggatacat[GA]ttcatttctgtgaaagagcaagggaacttcaaaaagatcactgtgaaccaa	ctg11	15	
61067 I		A	TATTACTAGATTTAGACTTGTTTTTTTTTTCTTTTTAAATTTCTTCTACAC			
61067 P	T	A	CGCGCCGAGGTTGCTCATAGTCATGCCCT			
61067 P	G	A	CGCGCCGAGGGTGCTCATAGTCATGCCC			
61067 T	T	A	ATAAAGGGCATGACTATGAGCAATGTAGAAGAAATTTAAAAAGAAAAAAAAAACAAGTCTAAATCTAGTAATA			
61067 T	G	A	ATAAAGGGCATGACTATGAGCACTGTAGAAGAAATTTAAAAAGAAAAAAAAAACAAGTCTAAATCTAGTAATA			
61067 IS	[TG]		tatactagattagactgttttttttttcttttaaatttcttctaca[TG]tgctctagtcatgccctttatatcactctgcagttttattggtaga	ctg21fin2	21	
61069 I		S	CCCCGGGGGTTAGAGGTCAGCTGGAT			
61069 P	C	S	CGCGCCGAGGGCAGATCCTTGACCCAC			
61069 P	T	S	CGCGCCGAGGACAGATCCTTGACCCACT			
61069 T	C	S	CTGGAGTGGGTCAAGGATCTGCTCCAGCTGACCTCTAACCCCCGGGGGC			
61069 T	T	S	CTGGAGTGGGTCAAGGATCTGTTCCAGCTGACCTCTAACCCCCGGGGGC			
61069 IS	[CT]		tgtggctactagtcaaggaggctcagcctctggagtgggtcaaggatctg[CT]tccagctgacctctaacccccgggggccgcctgagcccttggtctccgct	ctg14574	1	
61122 I		S	GGCCCATGAAAACATATGGAATGACCACAGCTGAGCT			
61122 P	T	S	CGCGCCGAGGATGGAAGTTGCTAAAAGAGGGY			
61122 P	C	S	CGCGCCGAGGGTGGAAGTTGCTAAAAGAGGGY			
61122 T	T	S	CAATCCCTCTTTTAGCAACTTCCATGCTCAGCTGTGGTCATTCCATATGTTTTCATGGGCCCT			
61122 T	C	S	CAATCCCTCTTTTAGCAACTTCCACGCTCAGCTGTGGTCATTCCATATGTTTTCATGGGCCCT			
61122 IS	[TC]		gctcccgaccagctcctctttgacactccctctttttagccacctccc[TC]gctcagctgtggtcattccatatgtttccatgggccctaaaagccaccaa	ctg14574	1	
61128 I		S	CCTGGTAGAATCAAAGAGCTGGGAAGGTTGAGAGAGCT			
61128 P	T	S	CGCGCCGAGGAAGGAAGGGTGAGAGGAGY			
61128 P	C	S	CGCGCCGAGGGAGGAAGGGTGAGAGGAGY			
61128 T	T	S	CTCTCTCCTCTCACCCTTCCTTGCTCTCTCAACCTTCCCAGCTCTTTGATTCTACCAGGAA			
61128 T	C	S	CTCTCTCCTCTCACCCTTCCTCGCTCTCTCAACCTTCCCAGCTCTTTGATTCTACCAGGAA			
61128 IS	[TC]		tgtcctctctctgtctctgtctctctctcctctcaccctcct[TC]gctctctcaccttcccagctcttgattctaccaggaaaagaaaagag	ctg14574	1	
61135 I		A	GCTTTACCCAACCTGCCACTTACAATAGGCTCAAAGAATTTCAT			
61135 P	A	A	CGCGCCGAGGATTATTTAAAGGATCCAGTCTCTACC			
61135 P	G	A	CGCGCCGAGGGTTATTTAAAGGATCCAGTCTCTACC			
61135 T	A	A	AGTTGGTAGAGACTGGATCCTTTAAATAATTGAAATTCTTTGAGCCTATTGTAAGTGGCAGGTTGGGTAAAGCAG			
61135 T	G	A	AGTTGGTAGAGACTGGATCCTTTAAATAACTGAAATTCTTTGAGCCTATTGTAAGTGGCAGGTTGGGTAAAGCAG			
61135 IS	[AG]		cctgactgcttaccaacctgccactacaatggctcaaagaatttcat[AG]ttattaaaggatccagtctctaccaactatgccaattttttccaggca	ctg14574	1	
61136 I		S	CCAGGTGCTATTATATGACCAAAGGAAGTCTGAGAAAATCAAGTATAATT			
61136 P	T	S	CGCGCCGAGGATGGCAGCTTTTATACACAAAAG			
61136 P	C	S	CGCGCCGAGGGTGGCAGCTTTTATACACAAAAG			
61136 T	T	S	TTTCCTTTTGTGTATAAAAGCTGCCATATTATACTTGATTTTCTCAGACTTCCTTTGGTCATATAATAGCACCTGG			

FIGURE 129D

61136 T	C	S	TTTCCTTTTGTGTATAAAAGCTGCCACATTATACTTGATTTTCTCAGACTTCCTTTGGTCATATAATAGCACCTGG				
61136 tS	[TC]		agatctgtatgggatacacatatttcctttgtgtatataaagctgcca[TC]attatactgatttctcagacttcctttggtcatataatagcacctgg	ctg22fin4	22		
13849 I		S	CGCCCTGGCATAATTCAGTGGCCAGTT				
13849 P	C	S	ATGACGTGGCAGACGCCCGGCCCCY				
13849 P	G	S	CGCGCCGAGGCCCCGGCCCCAY				
13849 T	C	S	CAGGTGGGGCCGGGCACTGGCCACTGAATTATGCCAGGGCGCA				
13849 T	G	S	CAGGTGGGGCCGGGGACTGGCCACTGAATTATGCCAGGGCGCA				
13849 tS	[CG]		AGTGGTCAAGCCCTTGCCCAGAGCTCTCTATTCTGGAAGAGCGGTCCAGGTGGGGCCGGG[CG]ACTGGCCACTGAA TTATGCCAGGGCGCACTTTCCACTGGAGTTCACTTTCAATTGCTTCT	ctg22fin4	22	NEFH	
17609 I		S	ACTGCCTTTTTCTCTGCCAGCATAGTCCTTATGCAT				
17609 P	T	S	CGCGCCGAGGAGAGCTGCTTGACAACY				
17609 P	C	S	ATGACGTGGCAGACGGAGCTGCTTGACAACY				
17609 T	T	S	CAAGGTTGTCAAGCAGCTCTTGCATAAGGACTATGCTGGCAGAGAAAAAGGCAGTTT				
17609 T	C	S	CAAGGTTGTCAAGCAGCTCCTGCATAAGGACTATGCTGGCAGAGAAAAAGGCAGTTT				
17609 tS	[TC]		GCACACCTTTTACCACATTCACCTGGGGTCAGTGTAGACGCCAAGGTTGTCAAGCAGCTC[TC]TGCATAAGGACTATG CTGGCAGAGAAAAAGGCAGTTTCCCTGAGGTCAAAGGAGGTGTTT	ctg22fin7	22		
18306 I		A	TTGGTTATAACCCAGTGAAGACGCAAATCACTACTAGT				
18306 P	G	A	ATGACGTGGCAGACGTATTTATCTCATCAGGCTCAY				
18306 P	A	A	CGCGCCGAGGATATTTATCTCATCAGGCTCAGY				
18306 T	G	A	CATCCTGAGCCTGATGAGATAAATACCTAGTAGTGATTTGCGTCTTCACTGGGTTATAACCAATT				
18306 T	A	A	CATCCTGAGCCTGATGAGATAAATATCTAGTAGTGATTTGCGTCTTCACTGGGTTATAACCAATT				
18306 tS	[GA]		TAGTTGTAGTCTTTATATTTAAATTGGTTATAACCCAGTGAAGACGCAAATCACTACTAG[GA]TATTTATCTCATCAGGC TCAGGATGGAGAAAATTTCAGAGGCAACGGAGAACTCCAAGAC	ctg15665	20		
18677 I		A	AGAGGAGGCCGAGGCCAGGGTT				
18677 P	G	A	ATGACGTGGCAGACGACTGCCTCAGAGTAGCY				
18677 P	A	A	CGCGCCGAGGAACTGCCTCAGAGTAGCY				
18677 T	G	A	TCTTGCTACTCTGAGGCAGTCACCCTGGCCTCGGCCTCCTCTGC				
18677 T	A	A	TCTTGCTACTCTGAGGCAGTTACCCTGGCCTCGGCCTCCTCTGC				
18677 tS	[GA]		GGAAAGAGCCCCTTAGGTGGTGGCCACAGCCAGGCCTGCAGAGGAGGCCGAGGCCAGGGT[GA]ACTGCCTCAGAGT AGCAAGAAAGGCCCGCTGCCCGCAGCCTCTCCCCTGGTTCTCAGAAC	ctg15361	6		
19146 I		S	GCCCAGGCCTGGGGATGAGAAGAGTTGT				
19146 P	C	S	ATGACGTGGCAGACGAGGATGAAAAGCAGAGAGY				
19146 P	T	S	CGCGCCGAGGAAGGATGAAAAGCAGAGAGY				
19146 T	C	S	TTTCCTCTCTGCTTTTCATCCTCCAACTCTTCTCATCCCCAGGCCTGGGCCG				
19146 T	T	S	TTTCCTCTCTGCTTTTCATCCTTCAACTCTTCTCATCCCCAGGCCTGGGCCG				
19146 tS	[CT]		GAACCCCAACTCCCAACCTGGAATTTGGTATCTGTCCCTTTCCTCTCTGCTTTTCATCCT[CT]CAACTCTTCTCATCCC CAGGCCTGGGCCGCACCCACTCATCCAGACTCCTTCCCCTCTCG	ctg15361	6		
20307 I		A	GCAGCTCCGGGGCTCTGCTGGTTTATA				
20307 P	C	A	ATGACGTGGCAGACCCTGGTGGTGGGATTY				
20307 P	T	A	CGCGCCGAGGTCTGGTGGTGGGATTAGY				
20307 T	C	A	TCACCTAATCCCACCACCAGGATAAACCAGCAGAGCCCCGGAGCTGCTC				
20307 T	T	A	TCACCTAATCCCACCACCAGAATAAACCAGCAGAGCCCCGGAGCTGCTC				
20307 tS	[CT]		GTGGTCCATGGGGGTGGGGGATGACTGACGGAGAGCAGCTCCGGGGCTCTGCTGGTTTAT[CT]CTGGTGGTGGGAT TAGGTGACAGGTGTGGCTGGGCTCAGCACCTGAGGTCCTGCCCAGAC	ctg16955	1		
20745 I		S	CAGCCTACAGGGCCCCCAGTCCTAGT				
20745 P	C	S	ATGACGTGGCAGACGGGAAAGTCCGGGAGY				
20745 P	T	S	CGCGCCGAGGAGGAAAGTCCGGGAGY				
20745 T	C	S	TAGACTCCCGGACTTTCCCCTAGGACTGGGGGCCCTGTAGGCTGCT				
20745 T	T	S	TAGACTCCCGGACTTTCCTCTAGGACTGGGGGCCCTGTAGGCTGCT				
20745 tS	[CT]		AAGAGAGCGTGCCTCAGGTTACTTGAACTTGAACGGAGACTGTAGACTCCCGGACTTTCC[CT]CTAGGACTGGGGGC CCTGTAGGCTGCTGTTGGAGGACTGGGTAGAGACATTGGAGGGAAG	ctg16128	1		
20844 I		S	AAGTAGAGTTCATGAACAGCCAATTAATAGGAATGTTGTAGGAGAGAACTTT				
20844 P	G	S	CGCGCCGAGGCAGATTAAATGGATTTGGAAAGAY				
20844 P	C	S	ATGACGTGGCAGACGAGATTAAATGGATTTGGAAAGAGY				
20844 T	G	S	GCCTCTCTTTCCAAATCCATTTAATCTGAAGTTCTCTCCTACAACATTCCTATTAATTGGCTGTTCATGAACTCTACTTG T				
20844 T	C	S	GCCTCTCTTTCCAAATCCATTTAATCTCAAGTTCTCTCCTACAACATTCCTATTAATTGGCTGTTCATGAACTCTACTTG T				
20844 tS	[GC]		TCAACCTGTTTGAATTTGTCCTATAACTGGATAGCCTCTCTTTCCAAATCCATTTAATCT[GC]AAGTTCTCTCCTACAAC ATTCCTATTAATTGGCTGTTCATGAACTCTACTTGTCGAACTT	ctg16128	1		
21426 I		A	GACTTACCTGTTTTTAAAGTTTTGGCTCGGTTCACTA				
21426 P	T	A	CGCGCCGAGGTTTTAAAGAAAATTAAAAATAAAGTAAAGGAGY				
21426 P	C	A	ATGACGTGGCAGACCTTTAAAGAAAATTAAAAATAAAGTAAAGGAGY				
21426 T	T	A	TAGCCTCCTTTACTTTATTTTTAATTTTCTTTAAAAAGTGAACCGAGCCAAAACTTTAAAAACAGGTAAGTCAG				
21426 T	C	A	TAGCCTCCTTTACTTTATTTTTAATTTTCTTTAAAGAGTGAACCGAGCCAAAACTTTAAAAACAGGTAAGTCAG				
21426 tS	[TC]		AAAGCCATTTGTTTTTAAACATTCTGACTTACCTGTTTTTAAAGTTTTGGCTCGGTTCACT[TC]TTTAAAGAAAATTAAAAA TAAAGTAAAGGAGGCTATGAAGTAGTAAAATAATAAAATGTG	ctg13446	1		
24032 I		S	CCAGCAGCCCATGGGGCCTGAT				
24032 P	G	S	ATGACGTGGCAGACCGGGAAATGAGGCAGY				
24032 P	T	S	CGCGCCGAGGAGGGAAATGAGGCAGCY				
24032 T	G	S	AGCAGCTGCCTCATTTCCCGTCAGGCCCCATGGGCTGCTGGTC				
24032 T	T	S	AGCAGCTGCCTCATTTCCCTTCAGGCCCCATGGGCTGCTGGTC				
24032 tS	[GT]		ATTTCCCAGCAGTCCCCAGATGGTTGTTTCCGTGGGGACACAGCAGCTGCCTCATTTCCC[GT]TCAGGCCCCATGGG CTGCTGGTCAACCTCAGGATCTACTAAAGATGACGCAAATGCCGAC	ctg22fin4	22		
24338 I		S	GCCCTAGGGGCTTTACTCTGGTGTTATTGTTTGATTTTTGT				
24338 P	C	S	ATGACGTGGCAGACGGGGGAGTTTCTTTTGGY				
24338 P	T	S	CGCGCCGAGGAGGGGAGTTTCTTTTGGY				
24338 T	C	S	GGTGCCAAAAGAAACTCCCCCCAAAAATCAAACAATAACACCAGAGTAAAGCCCCTAGGGCGA				
24338 T	T	S	GGTGCCAAAAGAAACTCCCCTCAAAAATCAAACAATAACACCAGAGTAAAGCCCCTAGGGCGA				
24338 tS	[CT]		GGCTACTGACTAAACAGATGAAAATGAAGGTATGGAGTTTGGTGCCAAAAGAAACTCCCC[CT]CAAAAATCAAACAATA ACACCAGAGTAAAGCCCCTAGGGCGAGATAAGGAGTTGCAACAA	ctg13446	1		
24682 I		S	AGCTCTGTTACTTGCACATCCCCGAGGCC				
24682 P	T	S	CGCGCCGAGGAGTGGACTCTGGCCY				
24682 P	A	S	ATGACGTGGCAGACTGTGGACTCTGGCCY				
24682 T	T	S	GGAGGGCCAGAGTCCACTGCCTCGGGGATGTGCAAGTAACAGAGCTTG				
24682 T	A	S	GGAGGGCCAGAGTCCACAGCCTCGGGGATGTGCAAGTAACAGAGCTTG				
24682 tS	[TA]		GCCTGAACTGAGCCCAGTAGAAGTCCCATCCTTGGAGCTCCAGGGAGGGCCAGAGTCCAC[TA]GCCTCGGGGATGT GCAAGTAACAGAGCTTGGCTGCTGTGCCACAGTGACAGAGATGGTGT	ctg13980	1		
24904 I		S	CACAGTCTATACCATTCCCAGGATATGAATTGCTAAGACAGCATTATA				
24904 P	G	S	ATGACGTGGCAGACCTTATTTCAAATTGATCCAGAATCAY				
24904 P	A	S	CGCGCCGAGGTTTATTTCAAATTGATCCAGAATCAY				
24904 T	G	S	TCTTTGATTCTGGATCAATTTGAAATAAGATAATGCTGTCTTAGCAATTCATATCCTGGGAATGGTATAGACTGTGCA				
24904 T	A	S	TCTTTGATTCTGGATCAATTTGAAATAAAATAATGCTGTCTTAGCAATTCATATCCTGGGAATGGTATAGACTGTGCA				

FIGURE 129D

				CCTCCTAAGAGTTACATTTCAGAAGTCATTGCTCTTTGATTCTGGATCAATTTGAAATAA[GA]ATAATGCTGTCTTAGCA			
24904 IS	[GA]			ATTCATATCCTGGGAATGGTATAGACTGTGCACAGTTGAAGAC	ctg13980	1	
25278 I			S	TGCCTTTCTCTCAGCAGAAAGAAAAGCCTATTGGCTAAAGT			
25278 P	G		S	CGCGCCGAGGCCCTAACTATCTACTGCTGAY			
25278 P	C		S	ATGACGTGGCAGACGCCTAACTATCTACTGCTGY			
25278 T	G		S	TACCTCAGCAGTAGATAGTTAGGGCTTTAGCCAATAGGCTTTTCTTTCTGCTGAGAGAAAGGCAAA			
25278 T	C		S	TACCTCAGCAGTAGATAGTTAGGCCTTTAGCCAATAGGCTTTTCTTTCTGCTGAGAGAAAGGCAAA			
				GTTTCTATTATTCACAACCAAACATAATTTTAATGACTACCTCAGCAGTAGATAGTTAGG[GC]CTTTAGCCAATAGGCTT			
25278 IS	[GC]			TTCTTTCTGCTGAGAGAAAGGCAAATGGTAGAATCTCAACCCC	ctg13980	1	
25517 I			A	GGGATGTTGTCCAAACCATGTGTGGGACTCTT			
25517 P	C		A	CGCGCCGAGGCTGTTGACAGTTGTTTTTAAATTGY			
25517 P	G		A	ATGACGTGGCAGACGTGTTGACAGTTGTTTTTAAATTGY			
25517 T	C		A	CAGGCAATTTAAAAACAACTGTCAACAGAGAGTCCCACACATGGTTTGGACAACATCCCTT			
25517 T	G		A	CAGGCAATTTAAAAACAACTGTCAACACAGAGTCCCACACATGGTTTGGACAACATCCCTT			
				CCTTGATGGCTCTCCTGTTTCGGGTATAAGGGATGTTGTCCAAACCATGTGTGGGACTCT[CG]TGTTGACAGTTGTTT			
25517 IS	[CG]			TTAAATTGCCTGTTTAATTGAGCTTCTCTAAAGTCTTCTTTGTGC	ctg13980	1	
25756 I			S	GTCCATCAGGCCCAGTGAAACACTCTGACAACTTAA			
25756 P	A		S	CGCGCCGAGGTATATTAAAGGAGTTTCACATCTAAAATY			
25756 P	G		S	ATGACGTGGCAGACCATATTAAAGGAGTTTCACATCTAAAY			
25756 T	A		S	TGAAATTTTAGATGTGAAACTCCTTTAATATATAAGTTGTCAGAGTGTTTCACTGGGCCTGATGGACTG			
25756 T	G		S	TGAAATTTTAGATGTGAAACTCCTTTAATATGTAAGTTGTCAGAGTGTTTCACTGGGCCTGATGGACTG			
				AGAAACTTCAAATACATAAGCCTCATTTGTGAAATTTTAGATGTGAAACTCCTTTAATAT[AG]TAAGTTGTCAGAGTGTT			
25756 IS	[AG]			TCACTGGGCCTGATGGACTGATGCTCATTAAACTCAGTAGATG	ctg13980	1	
25852 I			S	GGACGAAGGCCTCATGCTTCCTGGATGAT			
25852 P	T		S	CGCGCCGAGGACCACAAAAAAAAAGGTTGAGY			
25852 P	C		S	ATGACGTGGCAGACGCCACAAAAAAAAAGGTTGAY			
25852 T	T		S	TGGCCTCAACCTTTTTTTTTGTGGTTCATCCAGGAAGCATGAGGCCTTCGTCCTG			
25852 T	C		S	TGGCCTCAACCTTTTTTTTTGTGGCTCATCCAGGAAGCATGAGGCCTTCGTCCTG			
				ATAAATACTTGCTGGATGTAATGTTCCTCAACAAGATGGCCTCAACCTTTTTTTTTGTGG[TC]TCATCCAGGAAGCATG			
25852 IS	[TC]			AGGCCTTCGTCCTGGTAATATTTTGGGCATATTATTAGGGGCAG	ctg13980	1	
25918 I			S	AGGACAGAAGCCCACTGGGCCTGGC			
25918 P	A		S	CGCGCCGAGGTGGGCCTCTCATCCY			
25918 P	T		S	ATGACGTGGCAGACAGGGCCTCTCATCCAY			
25918 T	A		S	GTTCTGGATGAGAGGCCCACCAGGCCCAGTGGGCTTCTGTCCTGG			
25918 T	T		S	GTTCTGGATGAGAGGCCCTCCAGGCCCAGTGGGCTTCTGTCCTGG			
				GTCATGGACGATGGAGAAGAGAATGCGCTTGGAGGCATGGACGTTCTGGATGAGAGGCCC[AT]CCAGGCCCAGTGG			
25918 IS	[AT]			GCTTCTGTCCTGGACAAGGGAGAGAAGGAAGAAGGTTCCAGGTGGGA	ctg13516	6	
26285 I			A	TCATCTGTGCGGGTGCAGAGTGGCAA			
26285 P	C		A	ATGACGTGGCAGACCGTAAGTGCATTGCCAY			
26285 P	T		A	CGCGCCGAGGTGTAAGTGCATTGCCAGY			
26285 T	C		A	AGGGCTGGCAATGCACTTACGTGCCACTCTGCACCCGCACAGATGACA			
26285 T	T		A	AGGGCTGGCAATGCACTTACATGCCACTCTGCACCCGCACAGATGACA			
				CCAGCTTCCACGCCCATGGCTACCAGGAGAAGGTGTCATCTGTGCGGGTGCAGAGTGGCA[CT]GTAAGTGCATTGCC			
26285 IS	[CT]			AGCCCTGGCTCACCCTGCCCCAGGAACTGAGACTCTGGGGTCCTAA	ctg16537	20	
27051 I			A	GAGGAATGGCTGCCCCCTTCGAGGTAAA			
27051 P	C		A	ATGACGTGGCAGACCCTTCAGATGGGTGACAY			
27051 P	T		A	CGCGCCGAGGTCTTCAGATGGGTGACATY			
27051 T	C		A	CATGATGTCACCCATCTGAAGGTTACCTCGAAGGGGGCAGCCATTCCTCCA			
27051 T	T		A	CATGATGTCACCCATCTGAAGATTACCTCGAAGGGGGCAGCCATTCCTCCA			
				AGGCAGGTCCAGCAGGCACAGAAGGACATGTTGGAGGAATGGCTGCCCCCTTCGAGGTAA[CT]CTTCAGATGGGTGA			
27051 IS	[CT]			CATCATGGAGGAAGCCTGTGGTACATCTGGAGACACCATGACACCA	ctg15665	20	
27182 I			A	GTGTGGAGGTCCAGCCTCTTCTTAGACACACAAC			
27182 P	T		A	CGCGCCGAGGTGAAAACTCACTATTCTCACAAY			
27182 P	G		A	ATGACGTGGCAGACGGAAAACTCACTATTCTCACAY			
27182 T	T		A	GGGTTTGTGAGAATAGTGAGTTTTCATTGTGTGTCTAAGAAGAGGCTGGACCTCCACACAT			
27182 T	G		A	GGGTTTGTGAGAATAGTGAGTTTTCCTTGTGTGTCTAAGAAGAGGCTGGACCTCCACACAT			
				TATAAATGCTACTGAAACATCACCAATGTGTGGAGGTCCAGCCTCTTCTTAGACACACAA[TG]GAAAACTCACTATTCT			
27182 IS	[TG]			CACAAACCCCAATCCACTCTTCAGATAACTGTCTAATCATTAGA	ctg15907	6	
28863 I			A	CCTCTCCTGCAATCCAACTTGTGAGGCTTGCT			
28863 P	G		A	ATGACGTGGCAGACGTGTGTGTGTGTGCY			
28863 P	A		A	CGCGCCGAGGATGTGTGTGTGTGTGCY			
28863 T	G		A	GCGTGCACACACACACACGCAAGCCTCACAAGTTGGATTGCAGGAGAGGGT			
28863 T	A		A	GCGTGCACACACACACACATGCAAGCCTCACAAGTTGGATTGCAGGAGAGGGT			
				ATGAATTCCGTGGCCTGAATGTACCTTCCTCAAATGCCACTGCAAACTGGGTCTCCTCGCCCACTTCACCCTCTCCTG			
				CAATCCAACTTGTGAGGCTTGC[GA]TGTGTGTGTGTGTGCACGCGTGCGTTTAGATGGAGGTTGGCTTCCCAGCCAC			
28863 IS	[GA]			CCAGGCTTGGCCCAAAGTCCGTGGTACACACGTGCATAACTCCTACCC	ctg15907	6	
34685 I			A	GGTGGGAAGAAAGGATATGATTATTTCTTATTCCATTTTCCATAAGAGGTGAGAATT			
34685 P	G		A	ATGACGTGGCAGACGACAAGGACCTCTTTTCTAACY			
34685 P	A		A	CGCGCCGAGGAACAAGGACCTCTTTTCTAACY			
34685 T	G		A	AGGAGTTAGAAAAGAGGTCCTTGTCATTCTCACCTCTTATGGAAAATGGAATAAGAAATAATCATATCCTTTCTTCCCA CCCT			
34685 T	A		A	AGGAGTTAGAAAAGAGGTCCTTGTTATTCTCACCTCTTATGGAAAATGGAATAAGAAATAATCATATCCTTTCTTCCCA CCCT			
				GAAGGGTGGGAAGAAAGGATATGATTATTTCTTATTCCATTTTCCATAAGAGGTGAGAAT[GA]ACAAGGACCTCTTTTC			
34685 IS	[GA]			TAACTCCTCTTGAGGGTGTGAGAAGGGTTAGCAGGAGGAGAAGG	MULTIPLE	22	PPP1R11
34780 I			A	GGGTGTCTCTGTGTCCAGCAGGAGGGT			
34780 P	G		A	ATGACGTGGCAGACGGAAGGCTTGTTGGTGY			
34780 P	A		A	CGCGCCGAGGAGAAGGCTTGTTGGTGTY			
34780 T	G		A	GGGGACACCAACAAGCCTTCCCCCTCCTGCTGGACACAGAGACACCCAC			
34780 T	A		A	GGGGACACCAACAAGCCTTCTCCCTCCTGCTGGACACAGAGACACCCAC			
				AGGTGACTCAGAGGGTGTGTCTGGTGTGCTGGGTGGGTGTCTCTGTGTCCAGCAGGAGGG[GA]GAAGGCTTGTTGG			
34780 IS	[GA]			TGTCCCCAAGCCAGGCCAGTCCTCAGTTCCATGAAAGGCGCCTCTTG	ctg22fin4	22	
36248 I			S	CCCTATTGAATGCCTTTGGCTGCTTTCATGGTCATGA			
36248 P	G		S	ATGACGTGGCAGACCTGGAGAAGCCTTTGAG			
36248 P	A		S	CGCGCCGAGGTTGGAGAAGCCTTTGAG			
36248 T	G		S	GTACCTCAAAGGCTTCTCCAGCATGACCATGAAAGCAGCCAAAGGCATTCAATAGGGAC			
36248 T	A		S	GTACCTCAAAGGCTTCTCCAACATGACCATGAAAGCAGCCAAAGGCATTCAATAGGGAC			
				AAATATTGCAGAGCTTCCTTGGAATTCAATAGCCCGCCCCGTACCTCAAAGGCTTCTCCA[GA]CATGACCATGAAAGC			
36248 IS	[GA]			AGCCAAAGGCATTCAATAGGGACATCCTCCCAGCCTTGTGTTAAA	ctg22fin4	22	
36432 I			A	GGGTGCTGTTCTCCCAGCAGAGAACACTCA			
36432 P	C		A	ATGACGTGGCAGACCGTTTCCTGCCCACY			
36432 P	T		A	CGCGCCGAGGTGTTTCCTGCCCACCY			
36432 T	C		A	AGAGGGTGGGCAGGAAACGGAGTGTTCTCTGCTGGGAGAACAGCACCCCA			
36432 T	T		A	AGAGGGTGGGCAGGAAACAGAGTGTTCTCTGCTGGGAGAACAGCACCCCA			
				AAATACCTACTGTGCATGACGCACAGTGCTGGGGTGCTGTTCTCCCAGCAGAGAACACTC[CT]GTTTCCTGCCCACCC			
36432 IS	[CT]			TCTACCCCTCCACCCACACCCATCCCCACCCCTAGCCCTGCAGGC	ctg15907	6	

FIGURE 129D

36841 I		S	CCCATATAGTGTTTGTGTGGAAATGTCCCCCAAAAGAAACTTAA			
36841 P	G	S	ATGACGTGGCAGACCAGTTTAAAATGTTTTTTTTCGGTY			
36841 P	A	S	CGCGCCGAGGTAGTTTAAAATGTTTTTTTTCGGTTATY			
36841 T	G	S	AAACATAACCGAAAAAAAAACATTTTAAACTGTAAGTTTCTTTTGGGGGACATTTCCACACAAACACTATATGGGAG			
36841 T	A	S	AAACATAACCGAAAAAAAAACATTTTAAACTATAAGTTTCTTTTGGGGGACATTTCCACACAAACACTATATGGGAG			
36841 IS	[GA]		TTACAAATAATGTCCCCATAAACTATAGTAAAACATAACCGAAAAAAAACATTTTAAACT[GA]TAAGTTTCTTTTGGGGG ACATTTCCACACAAACACTATATGGGAGCTAATAGAATTTCGT	ctg13980	1	
39289 I		S	GCAGAAAGAGGGGGTGGGTGTCTCCTA			
39289 P	A	S	CGCGCCGAGGTCCACAAGCCCTCCY			
39289 P	G	S	ATGACGTGGCAGACCCCACAAGCCCTCCY			
39289 T	A	S	TATAGGAGGGCTTGTGGAAGGAGACACCCACCCCCTCTTTCTGCAC			
39289 T	G	S	TATAGGAGGGCTTGTGGGAGGAGACACCCACCCCCTCTTTCTGCAC			
39289 IS	[AG]		TTCACCTTCCGTCCAGCACTAAGGGAGTCTGGCCACGGCCTAATATAGGAGGGCTTGTGG[AG]AGGAGACACCCACC CCCTCTTTCTGCACCTCTCCCCTCTTCCATGCCACCCCCAGGCCAG	MULTIPLE	MULTIPLE	
39512 I		A	CCTTGGGTTACATTTTTACGAGATTTAAATATTTTATTCCAACCTGTGTAATAGGGGA			
39512 P	T	A	CGCGCCGAGGTCTCCTCCTCCTTGAACY			
39512 P	C	A	ATGACGTGGCAGACCCTCCTCCTCCTTGAACY			
39512 T	T	A	GACAGTTCAAGGAGGAGGAGACCCCTATTACACAGGTTGGAATAAAATATTTAAATCTCGTAAAAATGTAACCCAAGG CT			
39512 T	C	A	GACAGTTCAAGGAGGAGGAGGCCCCTATTACACAGGTTGGAATAAAATATTTAAATCTCGTAAAAATGTAACCCAAGG CT			
39512 IS	[TC]		GAGCCTTGGGTTACATTTTTACGAGATTTAAATATTTTATTCCAACCTGTGTAATAGGGG[TC]CTCCTCCTCCTTGAACT GTCCCGATTGGCTGGGGTCACGTGGTGAGGGTCCTGGGTGACC	ctg13446	1	
39573 I		S	CACAGTGCCCACCCCCAAGTTAGGATGAAAAAC			
39573 P	T	S	CGCGCCGAGGAGTTCCAGAGGTTTTTAAGAAAY			
39573 P	A	S	ATGACGTGGCAGACTGTTCCAGAGGTTTTTAAGAAY			
39573 T	T	S	CCAATTTCTTAAAAACCTCTGGAACTTTTTTCATCCTAACTTGGGGGTGGGCACTGTGTC			
39573 T	A	S	CCAATTTCTTAAAAACCTCTGGAACATTTTTCATCCTAACTTGGGGGTGGGCACTGTGTC			
39573 IS	[TA]		ATGGGAATTTCTTGAAGTTAGGGACCCAGCTTAATCCAATTTCTTAAAAACCTCTGGAAC[TA]TTTTTCATCCTAACTTG GGGGTGGGCACTGTGTCTTACTCATTTCTAGAACATCCATCCT			
42406 I		A	CCCCTCTCCTCCTCCTAGGGAACAGCAT			
42406 P	G	A	ATGACGTGGCAGACGTGCTCCCAAGTCCCY			
42406 P	C	A	CGCGCCGAGGCTGCTCCCAAGTCCCY			
42406 T	G	A	CCTGGGGACTTGGGAGCACTGCTGTTCCCTAGGAGGAGGAGAGGGGGA			
42406 T	C	A	CCTGGGGACTTGGGAGCAGTGCTGTTCCCTAGGAGGAGGAGAGGGGGA			
42406 IS	[GC]		CTGCATGGCGCCCATGGAAACCTGCACTTCTTCCCCCTCTCCTCCTCCTAGGGAACAGCA[GC]TGCTCCCAAGTCCC CAGGGCCTCCTCCCTGTCCACAGCCCCGACCCCCCCACTGAGCCCA	ctg13446	1	
42670 I		S	CCCTGCCCCGAAGGCTTTTGTGACTCTGT			
42670 P	T	S	CGCGCCGAGGAGTGTCAAAAGGGGTGGY			
42670 P	G	S	ATGACGTGGCAGACCGTGTCAAAAGGGGTGY			
42670 T	T	S	AGTGCCACCCCTTTTGACACTCAGAGTCACAAAAGCCTTCGGGGCAGGGTG			
42670 T	G	S	AGTGCCACCCCTTTTGACACGCAGAGTCACAAAAGCCTTCGGGGCAGGGTG			
42670 IS	[TG]		CTGCAATGCATAGTCCTGCTGCTTCCTTGTGGCGCCTCTGAGTGCCACCCCTTTTGACAC[TG]CAGAGTCACAAAAGC CTTCGGGGCAGGGTGGAACCCCAACCTAGGAGGCAGCGCAGGTGC	ctg14250	1	
42913 I		A	CAGCAGGACCAGCGGGAGCTCACC			
42913 P	T	A	CGCGCCGAGGTGCCGCGCATGGY			
42913 P	G	A	ATGACGTGGCAGACGGCCGCGCATGY			
42913 T	T	A	GGGACCATGCGCGGCAGTGAGCTCCCGCTGGTCCTGCTGGC			
42913 T	G	A	GGGACCATGCGCGGCCGTGAGCTCCCGCTGGTCCTGCTGGC			
42913 IS	[TG]		CCGCTCGCCCCCGGGGCGCCAGGCAGAGGACCAGCGCCAGCAGGACCAGCGGGAGCTCAC[TG]GCCGCGCATGGT CCCGACGGGAAGCCCTTGGAGCGCGCCGGAGAGGCTGGGAAGAGCAGA	ctg14250	1	
44013 I		S	CGTTCGCAGGCCAGAACTGCGCCT			
44013 P	C	S	ATGACGTGGCAGACGAGTCGCCTTCCACGY			
44013 P	T	S	CGCGCCGAGGAAGTCGCCTTCCACGY			
44013 T	C	S	GCGCCGTGGAAGGCGACTCGGCGCAGTTCTGGCCTGCGAACGCG			
44013 T	T	S	GCGCCGTGGAAGGCGACTTGGCGCAGTTCTGGCCTGCGAACGCC			
44013 IS	[CT]		ATCGTTGTAGCTGATCTCTTTGCTTAACTAATTAAACCTGGTGCGCCGTGGAAGGCGACT[CT]GGCGCAGTTCTGGCC TGCGAACGCCGTCCAAATTGGCAACCTCCCCTTTCCCGTGAACGG	ctg15665	20	
44292 I		S	CCCCGCCACCCCCAGGCACA			
44292 P	A	S	CGCGCCGAGGTGCCATCCGGGCY			
44292 P	G	S	ATGACGTGGCAGACCGCCATCCGGGCY			
44292 T	A	S	CATGGCCCGGATGGCAGTGCCTGGGGGTGGCGGGGTG			
44292 T	G	S	CATGGCCCGGATGGCGGTGCCTGGGGGTGGCGGGGTG			
44292 IS	[AG]		GCGTTTCACGACGTCGGTCACGTGCTCCGCTTTCTTGTAAACAGGCATGGCCCGGATGGC[AG]GTGCCTGGGGGTG GCGGGGTGGACACCTTGATCTGGATGGGGCATGTCTTGGCGATCTGG	ctg22fin6	22	TP73
44436 I		S	CCAACGGCTTGAACCGCCTGCCCC			
44436 P	T	S	CGCGCCGAGGACACCCTCCCCTGAY			
44436 P	A	S	ATGACGTGGCAGACTCACCCTCCCCTGAY			
44436 T	T	S	TGGCTCAGGGGAGGGTGTGGGCAGGCGGTTCAAGCCGTTGGCT			
44436 T	A	S	TGGCTCAGGGGAGGGTGAGGGCAGGCGGTTCAAGCCGTTGGCT			
44436 IS	[TA]		GCGTGTGGCCGGGCGGCATGGCGAAGCGGACCACGCTGGGGGGTGGCTCAGGGGAGGGTG[TA]GGGCAGGCGGT TCAAGCCGTTGGCTGGAGACACCTATTTAAGGGGATTCCATGTTAAAAG	ctg22fin6	22	
44650 I		A	ACCTCTTCCAGAATGGTACAGATTTTCTCTCACAAAATC			
44650 P	G	A	ATGACGTGGCAGACGTACGACTATATATCACACTCTTCY			
44650 P	T	A	CGCGCCGAGGTTACGACTATATATCACACTCTTCY			
44650 T	G	A	AACAGAAGAGTGTGATATATAGTCGTACATTTTGTGAGAGAAAATCTGTACCATTCTGGAAGAGGTGC			
44650 T	T	A	AACAGAAGAGTGTGATATATAGTCGTAAATTTTGTGAGAGAAAATCTGTACCATTCTGGAAGAGGTGC			
44650 IS	[GT]		AGCACCTGGAACCTTTATAAGCACCTCTTCCAGAATGGTACAGATTTTCTCTCACAAAAT[GT]TACGACTATATATCACA CTCTTCTGTTTGATCATCTTTATTTTCGTATGTCTACATGCTA	ctg22fin4	22	
44728 I		A	CCGTAAGAAGCAAGCAAGGTCTCGCTGTGGC			
44728 P	A	A	CGCGCCGAGGACAAGGCTGATTCCAGTY			
44728 P	T	A	ATGACGTGGCAGACTCAAGGCTGATTCCAGTY			
44728 T	A	A	ACCAACTGGAATCAGCCTTGTCCACAGCGAGACCTTGCTTGCTTCTTACGGGA			
44728 T	T	A	ACCAACTGGAATCAGCCTTGACCACAGCGAGACCTTGCTTGCTTCTTACGGGA			
44728 IS	[AT]		TCCTGCGGTCACTGTCATGGTCTCCGTTTCCCGTAAGAAGCAAGCAAGGTCTCGCTGTGG[AT]CAAGGCTGATTCCA GTTGGTGATTTTTACCTCTGGGGGCCTGGTGCTGTGTGCATGCGTG	ctg22fin4	22	
44746 I		S	TGATTTCCTCCCTGATCACACACTGGGGGACC			
44746 P	C	S	ATGACGTGGCAGACGTATTCCTCCCAATCACACY			
44746 P	A	S	CGCGCCGAGGTTATTCCTCCCAATCACACY			
44746 T	C	S	CAGAGTGTGATTGGGAGGAATACGTCCCCCAGTGTGTGATCAGGGAGGAAATCAGT			
44746 T	A	S	CAGAGTGTGATTGGGAGGAATAAGTCCCCCAGTGTGTGATCAGGGAGGAAATCAGT			
44746 IS	[CA]		GAGCCTCCCGGAGCACGGTCAGGCAGGAATCAGCACCCCAGAGTGTGATTGGGAGGAATA[CA]GTCCCCCAGTGTG TGATCAGGGAGGAAATCAGTTTCCCAGAGTGTGATCCGGCAGGAATC	ctg22fin4	22	
44874 I		A	GCTGCCTCCTTATGCCCATCAGGTAATGCTGT			
44874 P	A	A	CGCGCCGAGGAGGTAAAAGTACCCAAGGAY			

FIGURE 129D

44874 P	G	A	ATGACGTGGCAGACGGGTAAAAGTACCCAAGGY			
44874 T	A	A	CCTTTCCTTGGGTACTTTTACCTCAGCATTACCTGATGGGCATAAGGAGGCAGCAC			
44874 T	G	A	CCTTTCCTTGGGTACTTTTACCCCAGCATTACCTGATGGGCATAAGGAGGCAGCAC			
44874 IS	[AG]		GCACCACAAGTCTGGCAACACTATTTGGTGCTGCCTCCTTATGCCCATCAGGTAATGCTG[AG]GGTAAAAGTACCCAA GGAAAGGGCTTAGAAAGACAAATGGCCTTTTCTGCCACCAAATGG	ctg22fin4	22	
45628 I		S	CAGCGAGAAGCTGAGAGTTCATTTGTCCTTTTGGAGAT			
45628 P	C	S	ATGACGTGGCAGACGAGGCTAGAGTCAGATGCY			
45628 P	T	S	CGCGCCGAGGAAGGCTAGAGTCAGATGCY			
45628 T	C	S	TGAAGCATCTGACTCTAGCCTCTCTCCAAAAGGACAAATGAACTCTCAGCTTCTCGCTGGG			
45628 T	T	S	TGAAGCATCTGACTCTAGCCTTTCTCCAAAAGGACAAATGAACTCTCAGCTTCTCGCTGGG			
45628 IS	[CT]		GGAATTGCCAACCAAGAAGAGCTGACTGGTATCTCTAGATGAAGCATCTGACTCTAGCCT[CT]TCTCCAAAAGGACAA ATGAACTCTCAGCTTCTCGCTGGGTTTATCCAGTGCGTCATGTGC	ctg22fin4	22	
45804 I		S	TCTGGTGGAGGCTCCCTGGCCTTT			
45804 P	C	S	ATGACGTGGCAGACGGTGCCAAAGCTGATGY			
45804 P	T	S	CGCGCCGAGGAGTGCCAAAGCTGATGY			
45804 T	C	S	TACCCATCAGCTTTGGCACCAAGGCCAGGGAGCCTCCACCAGACA			
45804 T	T	S	TACCCATCAGCTTTGGCACTAAGGCCAGGGAGCCTCCACCAGACA			
45804 IS	[CT]		CTTCTTCTCTAGAAGAATTACCCTGAAGGTAAGCAGCTACCTACCCATCAGCTTTGGCAC[CT]AAGGCCAGGGAGCCT CCACCAGACACCATGGAAAGCCATACCTGCCTCATGAGCTCCTCT	ctg22fin10	22	
46185 I		A	CCCAGACCACCCTGACCCCCGT			
46185 P	G	A	ATGACGTGGCAGACGGCCTGCCTGCCY			
46185 P	A	A	CGCGCCGAGGAGCCTGCCTGCCY			
46185 T	G	A	GCCAGGCAGGCAGGCCCGGGGGTCAGGGTGGTCTGGGCC			
46185 T	A	A	GCCAGGCAGGCAGGCTCGGGGGTCAGGGTGGTCTGGGCC			
46185 IS	[GA]		GCGGTCTCAGGCTGCGGTGGGCGTCTGTCCTGCATGTGGCCCAGACCACCCTGACCCCCG[GA]GCCTGCCTGCCTG GCCCTGCATGCTGCACGCTCACTGTATTTGTGCAGATCCTGGCCAGT	ctg15907	6	
46301 I		A	CATGTGTGGGGCTGGTGCTCCCACT			
46301 P	G	A	ATGACGTGGCAGACGTCTCCCCGTGGCY			
46301 P	A	A	CGCGCCGAGGATCTCCCCGTGGCY			
46301 T	G	A	GGGGGCCACGGGGAGACGTGGGAGCACCAGCCCCACACATGGG			
46301 T	A	A	GGGGGCCACGGGGAGATGTGGGAGCACCAGCCCCACACATGGG			
46301 IS	[GA]		CTTGGAACCAGCAAACAGCCCTGGAAACGTCTCCCCCATGTGTGGGGCTGGTGCTCCCAC[GA]TCTCCCCGTGGCCC CGTCCTCGCTCCTCCCTTGCCAGCCGAGAGACCCTGGCAGCCCACT	ctg15907	6	
46369 I		S	TGCAGCTTTTTTCCCCTCTCCTTTCACAAGATGCTAA			
46369 P	A	S	CGCGCCGAGGTTGTAAATTCAGGCTGCTTY			
46369 P	G	S	ATGACGTGGCAGACCTGTAAATTCAGGCTGCTY			
46369 T	A	S	ATTAAAGCAGCCTGAATTTACAATAGCATCTTGTGAAAGGAGAGGGGAAAAAAGCTGCAGT			
46369 T	G	S	ATTAAAGCAGCCTGAATTTACAGTAGCATCTTGTGAAAGGAGAGGGGAAAAAAGCTGCAGT			
46369 IS	[AG]		TTTTTTTCTTTCTTCCTTTTTTTTTTTAATCACAGAGATTAAAGCAGCCTGAATTTACA[AG]TAGCATCTTGTGAAAGGA GAGGGGAAAAAAGCTGCAGTGGTTTAGTAAATAATGCACTT	ctg15907	6	
46388 I		A	GAAAGCCGCAGGGACCGTGCCTTA			
46388 P	T	A	CGCGCCGAGGTCAACATCCCTACCCCY			
46388 P	C	A	ATGACGTGGCAGACCCAACATCCCTACCCCY			
46388 T	T	A	GGCGGGGGTAGGGATGTTGAAAGGCACGGTCCCTGCGGCTTTCAA			
46388 T	C	A	GGCGGGGGTAGGGATGTTGGAAGGCACGGTCCCTGCGGCTTTCAA			
46388 IS	[TC]		TCAGAAAAGCACCGGAACACTTAATTGTCTTGTCCTTGAAAGCCGCAGGGACCGTGCCTT[TC]CAACATCCCTACCCC CGCCCTCCCAACGGTTGTGACATGGGAGGATATTTCTTCACCCTT	ctg17573	X	
46610 I		S	GGAGGGAGTCGGTGGTGAAATTTGCAA			
46610 P	G	S	ATGACGTGGCAGACCGAGGGACATGAAACCY			
46610 P	A	S	CGCGCCGAGGTGAGGGACATGAAACCAY			
46610 T	G	S	CACTTGGTTTCATGTCCCTCGTGCAAATTTCACCACCGACTCCCTCCTC			
46610 T	A	S	CACTTGGTTTCATGTCCCTCATGCAAATTTCACCACCGACTCCCTCCTC			
46610 IS	[GA]		CAGATCTTGGTCTGAAATTCAACAATAATTTCACATTTCTCACTTGGTTTCATGTCCCT[GA]TGCAAATTTCACCACCG ACTCCCTCCTCTTTTATTATATATTTTTTCTTCTTGTTTTTGT	ctg16537	20	
46635 I		A	CCAGGAGGCCAGATTCTGTGCTACCTGACT			
46635 P	G	A	ATGACGTGGCAGACGTCAAGAGCGTGCAAAY			
46635 P	A	A	CGCGCCGAGGATCAAGAGCGTGCAAAGY			
46635 T	G	A	AACTCTTTGCACGCTCTTGACGTCAGGTAGCACAGAATCTGGCCTCCTGGGG			
46635 T	A	A	AACTCTTTGCACGCTCTTGATGTCAGGTAGCACAGAATCTGGCCTCCTGGGG			
46635 IS	[GA]		TTTCCCCAGTTTCCCAGTTTCCCCAGTTTCCCCAGGAGGCCAGATTCTGTGCTACCTGAC[GA]TCAAGAGCGTGCAAA GAGTTCACCCACGACTGGTCCTGGTGCGAGCGAACCTTCAGTTTG	ctg15907	6	
46990 I		A	CATCTTTGAAAACGCGATAGTGCTGACCTGTCCCT			
46990 P	G	A	ATGACGTGGCAGACGTGCGGTTTCTAACGCY			
46990 P	A	A	CGCGCCGAGGATGCGGTTTCTAACGCY			
46990 T	G	A	GCCTGCGTTAGAAACCGCACGGGACAGGTCAGCACTATCGCGTTTTCAAAGATGTT			
46990 T	A	A	GCCTGCGTTAGAAACCGCATGGGACAGGTCAGCACTATCGCGTTTTCAAAGATGTT			
46990 IS	[GA]		GGTGACCACCCGGTTTTCCTGGGGAACATCTTTGAAAACGCGATAGTGCTGACCTGTCCC[GA]TGCGGTTTCTAACG CAGGCACTTTAAAAAGAAGGCCCAGGCTCGATCCCGTCTTTCTAGT	ctg12559	6	
47138 I		A	TGCCTCACCTACACCCACCGGCTTA			
47138 P	C	A	ATGACGTGGCAGACCTAACGTGCCATCCAGY			
47138 P	T	A	CGCGCCGAGGTTAACGTGCCATCCAGTY			
47138 T	C	A	ATAAACTGGATGGCACGTTAGAAGCCGGTGGGTGTAGGTGAGGCACG			
47138 T	T	A	ATAAACTGGATGGCACGTTAAAAGCCGGTGGGTGTAGGTGAGGCACG			
47138 IS	[CT]		GGGTAGCGGCTGGAGAAGGGCCCGCGGGCGCCAGCGTGCCTCACCTACACCCACCGGCTT[CT]TAACGTGCCATCC AGTTTATGGCAGCTGTGGAGCCTGGTCCCCGGAGTTTCACCTTGATA	ctg16045	6	
49169 I		S	AGTCTAGATCCATTACTCCAAAACTTCTGGGACCCAAGAGT			
49169 P	C	S	ATGACGTGGCAGACGGACACAGATGAATAGGAATAAY			
49169 P	T	S	CGCGCCGAGGAGACACAGATGAATAGGAATAAAY			
49169 T	C	S	TTGGTTTATTCCTATTCATCTGTGTCCCTCTTGGGTCCCAGAAGTTTTGGAGTAATGGATCTAGACTGA			
49169 T	T	S	TTGGTTTATTCCTATTCATCTGTGTCTCTCTTGGGTCCCAGAAGTTTTGGAGTAATGGATCTAGACTGA			
49169 IS	[CT]		GCCCTGGCCCCCATTCCCCGAGTGCTATATTTACTTGGTTTATTCCTATTCATCTGTGTC[CT]CTCTTGGGTCCCAGAA GTTTTGGAGTAATGGATCTAGACTGAATGCTTCTCAGTCTGGAT	ctg16829	1	
49257 I		A	AGGAGACGGACACTGCTCGGAAAAAAAAACCTAGTTTTTA			
49257 P	C	A	ATGACGTGGCAGACCCTAGTTAGTGAATATTGGAACAY			
49257 P	T	A	CGCGCCGAGGTCTAGTTAGTGAATATTGGAACAGY			
49257 T	C	A	CAGACTGTTCCAATATTCACTAACTAGGAAAAACTAGGTTTTTTTTCCGAGCAGTGTCCGTCTCCTTC			
49257 T	T	A	CAGACTGTTCCAATATTCACTAACTAGAAAAAACTAGGTTTTTTTTCCGAGCAGTGTCCGTCTCCTTC			
49257 IS	[CT]		GGGGTTTTGTCTGACAGGAGGAAGGAGACGGACACTGCTCGGAAAAAAAAACCTAGTTTTT[CT]CTAGTTAGTGAATAT TGGAACAGTCTGGTGGCCGCTCTCTTTTGCAGGTTGTGCGGTCCA			
49322 I		S	CGGTAAATAATGCGAAAGAACTTGAGTTCATTCTTAATTCCCA			
49322 P	A	S	CGCGCCGAGGTTTTCAACCAAAAGAATGGTGY			
49322 P	G	S	ATGACGTGGCAGACCTTTCAACCAAAAGAATGGTGY			
49322 T	A	S	GGTGCACCATTCTTTTGGTTGAAAAGGGAATTAAGAATGAACTCAAGTTCTTTCGCATTATTTACCGTG			

FIGURE 129D

49322 T	G	S	GGTGCACCATTCTTTTGGTTGAAAGGGGAATTAAGAATGAACTCAAGTTCTTTCGCATTATTTACCGTG					
49322 IS	[AG]		GGCTCTCTGTTTTGCCTTTCAGTAATAATACAAGAAGGTGCACCATTCTTTTGGTTGAAA[AG]GGGAATTAAGAATGAA CTCAAGTTCTTTCGCATTATTTACCGTGTAATGTGAAAAGAAAT	ctg13655	10			
49384 I		A	GTCTAAAACACCTAAAGACAAGCACAACTTGCCCCCT					
49384 P	G	A	ATGACGTGGCAGACGCTAGGACGAATTTCTTGCY					
49384 P	A	A	CGCGCCGAGGACTAGGACGAATTTCTTGCY					
49384 T	G	A	TGGAGCAAGAAATTCGTCCTAGCGGGGGCAAGTTGTGCTTGTCTTTAGGTGTTTTAGACTC					
49384 T	A	A	TGGAGCAAGAAATTCGTCCTAGTGGGGGCAAGTTGTGCTTGTCTTTAGGTGTTTTAGACTC					
49384 IS	[GA]		TCAGCTGGGCTGTCTACAACCTGAGTCTAAAACACCTAAAGACAAGCACAACTTGCCCCC[GA]CTAGGACGAATTTCT TGCTCCAGACCGCCTCACTGCATCTCTAGGGCCATGTGTATTCCT	ctg13655	10			
49597 I		A	CCTCCCCCACCGAGGTTAGAGAACTGGAAA					
49597 P	T	A	CGCGCCGAGGTGCGCTGAGCTTTGY					
49597 P	C	A	ATGACGTGGCAGACCGCGCTGAGCTTTGY					
49597 T	T	A	GTTGCAAAGCTCAGCGCATTCCAGTTCTCTAACCTCGGTGGGGGAGGCC					
49597 T	C	A	GTTGCAAAGCTCAGCGCGTTCCAGTTCTCTAACCTCGGTGGGGGAGGCC					
49597 IS	[TC]		AGATCCCGGAGCCTGGGGGCCGAGCAGTAGGCCTCCCCCACCGAGGTTAGAGAACTGGAA[TC]GCGCTGAGCTTTG CAACCCAGTCCAAGTGGCCATTGGAAAGTAGAGTGGGAAGGGTTTAT	ctg16537	20			
49815 I		A	CCTAGCGTTTGAAATAGCCAATTTGCAAATAACTTGTATCCCATGT					
49815 P	A	A	CGCGCCGAGGACTTAAGAGTTACTGAGTCTCTY					
49815 P	C	A	ATGACGTGGCAGACCCTTAAGAGTTACTGAGTCTCY					
49815 T	A	A	TAACAGAGACTCAGTAACTCTTAAGTCATGGGATACAAGTTATTTGCAAATTGGCTATTTCAAACGCTAGGCT					
49815 T	C	A	TAACAGAGACTCAGTAACTCTTAAGGCATGGGATACAAGTTATTTGCAAATTGGCTATTTCAAACGCTAGGCT					
49815 IS	[AC]		GTGCTTATTTGGTAGCCTAGCGTTTGAAATAGCCAATTTGCAAATAACTTGTATCCCATG[AC]CTTAAGAGTTACTGAG TCTCTGTTATGTGTAGAGACCTGTACTGAATACCCAGCATTTCA	ctg16537	20			
49859 I		A	CCATCTCGGAGTCACAAACTCGGAGGAAAAAAAGGTAGT					
49859 P	A	A	CGCGCCGAGGAGAGTGGGAGCCCCY					
49859 P	G	A	ATGACGTGGCAGACGGAGTGGGAGCCCY					
49859 T	A	A	GAGGGGGGCTCCCACTCTCTACCTTTTTTCCTCCGAGTTTGTGACTCCGAGATGGAC					
49859 T	G	A	GAGGGGGGCTCCCACTCCCTACCTTTTTTCCTCCGAGTTTGTGACTCCGAGATGGAC					
49859 IS	[AG]		TCCAAAAACAGCACACACTTTGTCCATCTCGGAGTCACAAACTCGGAGGAAAAAAGGTAG[AG]GAGTGGGAGCCCCC CTCCAGGTTCCCTCAGGCTTTTAAACAACCGCGGTTCCAAAAAAAA	ctg16586	20			
49990 I		A	GCGAGCAGGGCATGACGGTGGCA					
49990 P	C	A	ATGACGTGGCAGACCGTGGTGTTTAGCAGCY					
49990 P	T	A	CGCGCCGAGGTGTGGTGTTTAGCAGCY					
49990 T	C	A	CTGAGCTGCTAAACACCACGGCCACCGTCATGCCCTGCTCGCCC					
49990 T	T	A	CTGAGCTGCTAAACACCACAGCCACCGTCATGCCCTGCTCGCCC					
49990 IS	[CT]		GCTCTTCGGTGCCTGGGCAGGGCTGGGTCCGGGGCAGGGCGAGCAGGGCATGACGGTGGC[CT]GTGGTGTTTAGC AGCTCAGGGCCGCCCCAGGCCCAGTTCCGTGCCCGCCTCACCCCCCAG	ctg17450	X	GRIN2C		
50008 I		A	GTGGTTATAGTAAATCACAATGTAAACTTCCCTGCCCT					
50008 P	G	A	ATGACGTGGCAGACGGCATTTCCATCTGGGY					
50008 P	A	A	CGCGCCGAGGAGCATTTCCATCTGGGTY					
50008 T	G	A	TAATACCCAGATGGAAATGCCGGGCAGGGAAGTTTACATTGTGATTTACTATAACCACAC					
50008 T	A	A	TAATACCCAGATGGAAATGCTGGGCAGGGAAGTTTACATTGTGATTTACTATAACCACAC					
50008 IS	[GA]		CTTGGACTGGGTCCTTAAAAGGTGTGGTTATAGTAAATCACAATGTAAACTTCCCTGCCC[GA]GCATTTCCATCTGGGT ATTATCAGATTAAAATGAACATCAAAGGAGCCCTAAAAGAAGGG	ctg17450	X			
50041 I		S	AGGTCTAGGACAGGCGCTCCTCTAAATTTTGCTTCA					
50041 P	A	S	CGCGCCGAGGTTTACTGGCCGCCAY					
50041 P	G	S	ATGACGTGGCAGACCTTACTGGCCGCCAY					
50041 T	A	S	GGGGTGGCGGCCAGTAAAGAAGCAAAATTTAGAGGAGCGCCTGTCCTAGACCTGC					
50041 T	G	S	GGGGTGGCGGCCAGTAAGGAAGCAAAATTTAGAGGAGCGCCTGTCCTAGACCTGC					
50041 IS	[AG]		ATTTCCGGGCAGAGAGGCGGGAGGTTCAGATTGCATCCGAGTAGGGGTGGCGGCCAGTAA[AG]GAAGCAAAATTTAG AGGAGCGCCTGTCCTAGACCTGCATTTTGACCAGTCATCAGAAGAA	ctg17450	X			
50143 I		A	ACCTCCATGTGGTTGGCCTGCTTAAAAAATAAAAAGCTGT					
50143 P	C	A	CGCGCCGAGGCAGACTCTTTCCCTCCCY					
50143 P	G	A	ATGACGTGGCAGACGAGACTCTTTCCCTCCCY					
50143 T	C	A	GTGTGGGAGGGAAAGAGTCTGCAGCTTTTTATTTTTTAAGCAGGCCAACCACATGGAGGTGG					
50143 T	G	A	GTGTGGGAGGGAAAGAGTCTCCAGCTTTTTATTTTTTAAGCAGGCCAACCACATGGAGGTGG					
50143 IS	[CG]		CATGGGGAAGAAGTCGTCCCCACCTCCATGTGGTTGGCCTGCTTAAAAAATAAAAAGCTG[CG]AGACTCTTTCCCTCC CACACTCCCTCTTTGGCTGGGTTCTGACTCCATTTTGGTCATTTT	ctg17450	X			
50195 I		S	TGCTGGGTGCTGGGCAGGGGT					
50195 P	C	S	ATGACGTGGCAGACGTGCTGAGGCCTCAY					
50195 P	T	S	CGCGCCGAGGATGCTGAGGCCTCACY					
50195 T	C	S	GGCTGTGAGGCCTCAGCACCCCCTGCCCAGCACCCAGCACC					
50195 T	T	S	GGCTGTGAGGCCTCAGCATCCCCTGCCCAGCACCCAGCACC					
50195 IS	[CT]		GGGCGCGGGACCACCGTGGGGTGGGTGGGGGCCAAGCCGCCGGGCTGTGAGGCCTCAGCA[CT]CCCCTGCCCAG CACCCAGCACCCCAACTTCCCCTTCTGCCTTTGCGGATTCCAGGGCCTG	ctg17450	X			
50260 I		S	TGAGGAGTACAGGGGTGGCCTAGGACCA					
50260 P	G	S	ATGACGTGGCAGACCAAACTAGCCTATTTGGTAATGY					
50260 P	A	S	CGCGCCGAGGTAAACTAGCCTATTTGGTAATGCY					
50260 T	G	S	ATCTGCATTACCAAATAGGCTAGTTTGGGTCCTAGGCCACCCCTGTACTCCTCAGA					
50260 T	A	S	ATCTGCATTACCAAATAGGCTAGTTTAGGTCCTAGGCCACCCCTGTACTCCTCAGA					
50260 IS	[GA]		CTGTGTGATGGAGGTGGTGATGCTAATGAATCACATCTGCATTACCAAATAGGCTAGTTT[GA]GGTCCTAGGCCACCC CTGTACTCCTCAGAAGCCAGTCTTGGCACTTGCCTTGGTGAAAAA	MULTIPLE	16			
50407 I		A	TTAATTACCTTACCCTTGCAACTATTTTCTGTATAAGAATCTCAAAGTTAATAAAAATTAA					
50407 P	C	A	ATGACGTGGCAGACCACAGATGAAGAATGACCTAAY					
50407 P	T	A	CGCGCCGAGGTACAGATGAAGAATGACCTAATACY					
50407 T	C	A	CTTAGTATTAGGTCATTCTTCATCTGTGTAATTTTTATTAACTTTGAGATTCTTATACAGAAAATAGTTGCAAGGGTAAG GTAATTAA					
50407 T	T	A	CTTAGTATTAGGTCATTCTTCATCTGTATAATTTTTATTAACTTTGAGATTCTTATACAGAAAATAGTTGCAAGGGTAAG GTAATTAA					
50407 IS	[CT]		TTAATTACCTTACCCTTGCAACTATTTTCTGTATAAGAATCTCAAAGTTAATAAAAATTA[CT]ACAGATGAAGAATGACCT AATACTAAGAAGGGGATGAATTCTGAGAGCAAATACATTTTA	ctg17129	17	BITE		
50421 I		A	CACAACCCTTCATTCATGACCTTCTCAGTCCATTTGTTCAT					
50421 P	G	A	ATGACGTGGCAGACGCTTTGGCCTCTCCAY					
50421 P	A	A	CGCGCCGAGGACTTTGGCCTCTCCAGY					
50421 T	G	A	TGGACTGGAGAGGCCAAAGCTGAACAAATGGACTGAGAAGGTCATGAATGAAGGGTTGTGGC					
50421 T	A	A	TGGACTGGAGAGGCCAAAGTTGAACAAATGGACTGAGAAGGTCATGAATGAAGGGTTGTGGC					
50421 IS	[GA]		TTCTCTTAGCACGTTCTTGCCACAACCCTTCATTCATGACCTTCTCAGTCCATTTGTTCA[GA]CTTTGGCCTCTCCAGT CCATTATCTCCGCACTTCCCGATTTGGATTCGCAGGTCCGTTAG	ctg17129	17			
50431 I		S	CCCCAGGCAGGTTCCAGCAGCACT					
50431 P	C	S	ATGACGTGGCAGACGTCACAGTCCCTGAGCY					
50431 P	T	S	CGCGCCGAGGATCACAGTCCCTGAGCY					
50431 T	C	S	CTGGGCTCAGGGACTGTGACGTGCTGCTGGAACCTGCCTGGGGAG					
50431 T	T	S	CTGGGCTCAGGGACTGTGATGTGCTGCTGGAACCTGCCTGGGGAG					
50431 IS	[CT]		GAGAGCAGTTTGGAGGGAGGTAAGGCAGGAAGCACTCAGTCCTGGGCTCAGGGACTGTGA[CT]GTGCTGCTGGAAC CTGCCTGGGGAGCTCAGGAATGAGGGGAGATGGCAAATAAAGACCTG	ctg17129	17			

FIGURE 129D

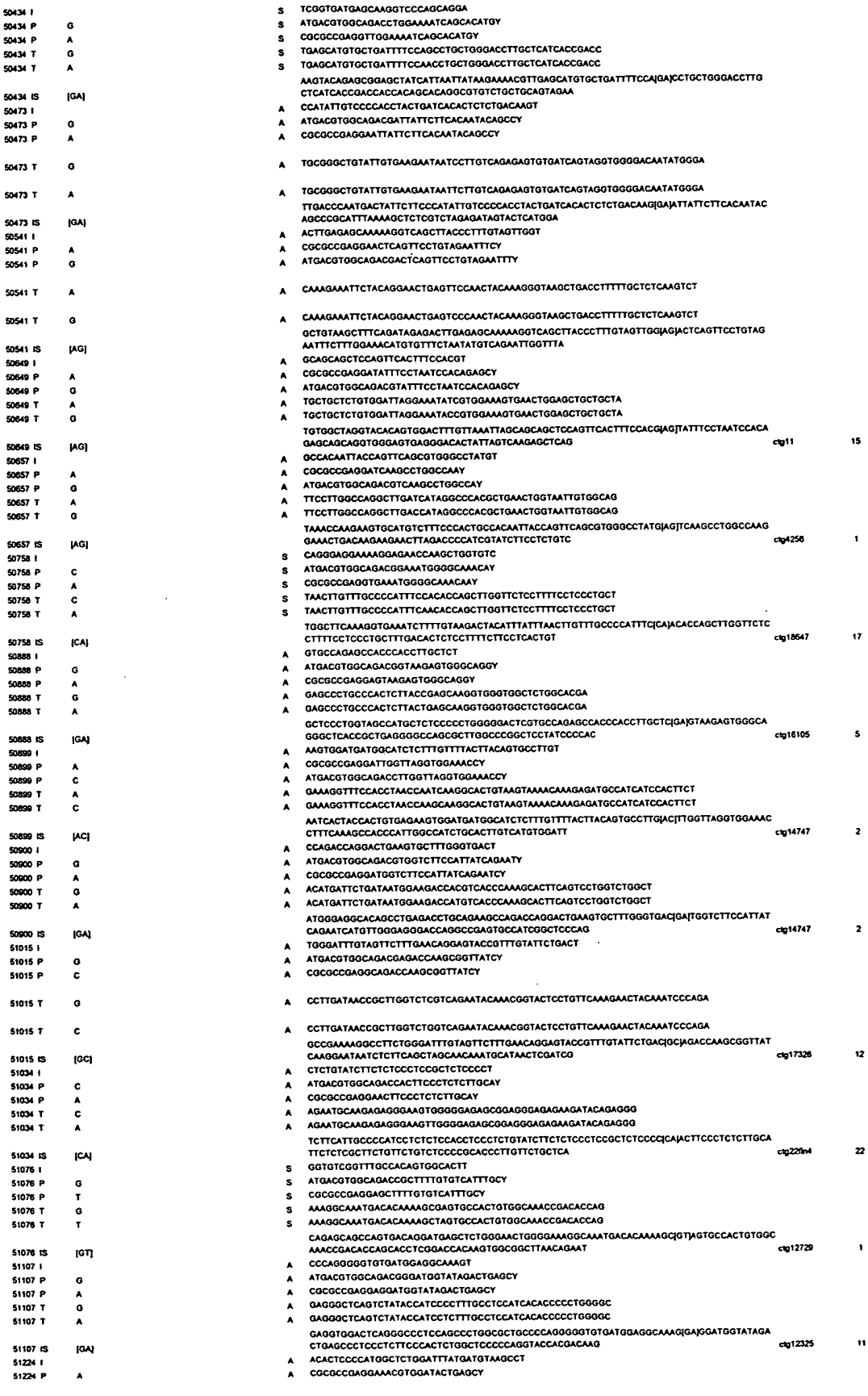

50434 I S TCGGTGATGAGCAAGGTCCCAGCAGGA
50434 P G S ATGACGTGGCAGACCTGGAAAATCAGCACATGY
50434 P A S CGCGCCGAGGTTGGAAAATCAGCACATGY
50434 T G S TGAGCATGTGCTGATTTTCCAGCCTGCTGGGACCTTGCTCATCACCGACC
50434 T A S TGAGCATGTGCTGATTTTCCAACCTGCTGGGACCTTGCTCATCACCGACC
50434 IS [GA] AAGTACAGAGCGGAGCTATCATTAATTATAAGAAAACGTTGAGCATGTGCTGATTTTCCA[GA]CCTGCTGGGACCTTG CTCATCACCGACCACCACAGCACAGGCGTGTCTGCTGCAGTAGAA
50473 I A CCATATTGTCCCCACCTACTGATCACACTCTCTGACAAGT
50473 P G A ATGACGTGGCAGACGATTATTCTTCACAATACAGCCY
50473 P A A CGCGCCGAGGAATTATTCTTCACAATACAGCCY
50473 T G A TGCGGGCTGTATTGTGAAGAATAATCCTTGTCAGAGAGTGTGATCAGTAGGTGGGGACAATATGGGA
50473 T A A TGCGGGCTGTATTGTGAAGAATAATTCTTGTCAGAGAGTGTGATCAGTAGGTGGGGACAATATGGGA
50473 IS [GA] TTGACCCAATGACTATTCTTCCCATATTGTCCCCACCTACTGATCACACTCTCTGACAAG[GA]ATTATTCTTCACAATAC AGCCCGCATTTAAAAGCTCTCGTCTAGAGATAGTACTCATGGA
50541 I A ACTTGAGAGCAAAAAGGTCAGCTTACCCTTTGTAGTTGGT
50541 P A A CGCGCCGAGGAACTCAGTTCCTGTAGAATTTCY
50541 P G A ATGACGTGGCAGACGACTCAGTTCCTGTAGAATTTY
50541 T A A CAAAGAAATTCTACAGGAACTGAGTTCCAACTACAAAGGGTAAGCTGACCTTTTTGCTCTCAAGTCT
50541 T G A CAAAGAAATTCTACAGGAACTGAGTCCCAACTACAAAGGGTAAGCTGACCTTTTTGCTCTCAAGTCT
50541 IS [AG] GCTGTAAGCTTTCAGATAGAGACTTGAGAGCAAAAAGGTCAGCTTACCCTTTGTAGTTGG[AG]ACTCAGTTCCTGTAG AATTTCTTTGGAAACATGTGTTTCTAATATGTCAGAATTGGTTTA
50649 I A GCAGCAGCTCCAGTTCACTTTCCACGT
50649 P A A CGCGCCGAGGATATTTCCTAATCCACAGAGCY
50649 P G A ATGACGTGGCAGACGTATTTCCTAATCCACAGAGCY
50649 T A A TGCTGCTCTGTGGATTAGGAAATATCGTGGAAAGTGAACTGGAGCTGCTGCTA
50649 T G A TGCTGCTCTGTGGATTAGGAAATACCGTGGAAAGTGAACTGGAGCTGCTGCTA
50649 IS [AG] TGTGGCTAGGTACACAGTGGACTTTGTTAAATTAGCAGCAGCTCCAGTTCACTTTCCACG[AG]TATTTCCTAATCCACA GAGCAGCAGGTGGGAGTGAGGGACACTATTAGTCAAGAGCTCAG ctg11 15
50657 I A GCCACAATTACCAGTTCAGCGTGGGCCTATGT
50657 P A A CGCGCCGAGGATCAAGCCTGGCCAAY
50657 P G A ATGACGTGGCAGACGTCAAGCCTGGCCAY
50657 T A A TTCCTTGGCCAGGCTTGATCATAGGCCCACGCTGAACTGGTAATTGTGGCAG
50657 T G A TTCCTTGGCCAGGCTTGACCATAGGCCCACGCTGAACTGGTAATTGTGGCAG
50657 IS [AG] TAAACCAAGAAGTGCATGTCTTTCCCACTGCCACAATTACCAGTTCAGCGTGGGCCTATG[AG]TCAAGCCTGGCCAAG GAAACTGACAAGAAGAACTTAGACCCCATCGTATCTTCCTCTGTC ctg4256 1
50758 I S CAGGGAGGAAAAGGAGAACCAAGCTGGTGTC
50758 P C S ATGACGTGGCAGACGGAAATGGGGCAAACAY
50758 P A S CGCGCCGAGGTGAAATGGGGCAAACAAY
50758 T C S TAACTTGTTTGCCCCATTTCCACACCAGCTTGGTTCTCCTTTTCCTCCCTGCT
50758 T A S TAACTTGTTTGCCCCATTTCAACACCAGCTTGGTTCTCCTTTTCCTCCCTGCT
50758 IS [CA] TGGCTTCAAAGGTGAAATCTTTTGTAAGACTACATTTATTTAACTTGTTTGCCCCATTTC[CA]CACCAGCTTGGTTCTC CTTTTCCTCCCTGCTTTGACACTCTCCTTTTCTTCCTCACTGT ctg18647 17
50888 I A GTGCCAGAGCCACCCACCTTGCTCT
50888 P G A ATGACGTGGCAGACGGTAAGAGTGGGCAGGY
50888 P A A CGCGCCGAGGAGTAAGAGTGGGCAGGY
50888 T G A GAGCCCTGCCCACTCTTACCGAGCAAGGTGGGTGGCTCTGGCACGA
50888 T A A GAGCCCTGCCCACTCTTACTGAGCAAGGTGGGTGGCTCTGGCACGA
50888 IS [GA] GCTCCCTGGTAGCCATGCTCTCCCCCTGGGGGACTCGTGCCAGAGCCACCCACCTTGCTC[GA]GTAAGAGTGGGCA GGGCTCACCGCTGAGGGGCCAGCGCTTGGCCCGGCTCCTATCCCCAC ctg16105 5
50899 I A AAGTGGATGATGGCATCTCTTTGTTTTACTTACAGTGCCTTGT
50899 P A A CGCGCCGAGGATTGGTTAGGTGGAAACCY
50899 P C A ATGACGTGGCAGACCTTGGTTAGGTGGAAACCY
50899 T A A GAAAGGTTTCCACCTAACCAATCAAGGCACTGTAAGTAAAACAAAGAGATGCCATCATCCACTTCT
50899 T C A GAAAGGTTTCCACCTAACCAAGCAAGGCACTGTAAGTAAAACAAAGAGATGCCATCATCCACTTCT
50899 IS [AC] AATCACTACCACTGTGAGAAGTGGATGATGGCATCTCTTTGTTTTACTTACAGTGCCTTG[AC]TTGGTTAGGTGGAAAC CTTTCAAAGCCACCCATTGGCCATCTGCACTTGTCATGTGGATT ctg14747 2
50900 I A CCAGACCAGGACTGAAGTGCTTTGGGTGACT
50900 P G A ATGACGTGGCAGACGTGGTCTTCCATTATCAGAATY
50900 P A A CGCGCCGAGGATGGTCTTCCATTATCAGAATCY
50900 T G A ACATGATTCTGATAATGGAAGACCACGTCACCCAAAGCACTTCAGTCCTGGTCTGGCT
50900 T A A ACATGATTCTGATAATGGAAGACCATGTCACCCAAAGCACTTCAGTCCTGGTCTGGCT
50900 IS [GA] ATGGGAGGCACAGCCTGAGACCTGCAGAAGCCAGACCAGGACTGAAGTGCTTTGGGTGAC[GA]TGGTCTTCCATTAT CAGAATCATGTTGGGAGGGACCAGGCCGAGTGCCATCGGCTCCCAG ctg14747 2
51015 I A TGGGATTTGTAGTTCTTTGAACAGGAGTACCGTTTGTATTCTGACT
51015 P G A ATGACGTGGCAGACGAGACCAAGCGGTTATCY
51015 P C A CGCGCCGAGGCAGACCAAGCGGTTATCY
51015 T G A CCTTGATAACCGCTTGGTCTCGTCAGAATACAAACGGTACTCCTGTTCAAAGAACTACAAATCCCAGA
51015 T C A CCTTGATAACCGCTTGGTCTGGTCAGAATACAAACGGTACTCCTGTTCAAAGAACTACAAATCCCAGA
51015 IS [GC] GCCGAAAAGGCCTTCTGGGATTTGTAGTTCTTTGAACAGGAGTACCGTTTGTATTCTGAC[GC]AGACCAAGCGGTTAT CAAGGAATAATCTCTTCAGCTAGCAACAAATGCATAACTCGATCG ctg17326 12
51034 I A CTCTGTATCTTCTCTCCCTCCGCTCTCCCCT
51034 P C A ATGACGTGGCAGACCACTTCCCTCTCTTGCAY
51034 P A A CGCGCCGAGGAACTTCCCTCTCTTGCAY
51034 T C A AGAATGCAAGAGAGGGAAGTGGGGGAGAGCGGAGGGAGAGAAGATACAGAGGG
51034 T A A AGAATGCAAGAGAGGGAAGTTGGGGAGAGCGGAGGGAGAGAAGATACAGAGGG
51034 IS [CA] TCTTCATTGCCCCATCCTCTCTCCACCTCCCTCTGTATCTTCTCTCCCCTCCGCTCTCCCC[CA]ACTTCCCTCTCTTGCA TTCTCTCGCTTCTGTTCTGTCTCCCCGCACCCTTGTTCTGCTCA ctg229n4 22
51076 I S GGTGTCGGTTTGCCACAGTGGCACTT
51076 P G S ATGACGTGGCAGACCGCTTTTGTGTCATTTGCY
51076 P T S CGCGCCGAGGAGCTTTTGTGTCATTTGCY
51076 T G S AAAGGCAAATGACACAAAAGCGAGTGCCACTGTGGCAAACCGACACCAG
51076 T T S AAAGGCAAATGACACAAAAGCTAGTGCCACTGTGGCAAACCGACACCAG
51076 IS [GT] CAGAGCAGCCAGTGACAGGATGAGCTCTGGGAACTGGGGAAAGGCAAATGACACAAAAGC[GT]AGTGCCACTGTGGC AAACCGACACCAGCACCTCGGACCACAAGTGGCGGCTTAACAGAAT ctg12729 1
51107 I A CCCAGGGGGTGTGATGGAGGCAAAGT
51107 P G A ATGACGTGGCAGACGGGATGGTATAGACTGAGCY
51107 P A A CGCGCCGAGGAGGATGGTATAGACTGAGCY
51107 T G A GAGGGCTCAGTCTATACCATCCCCTTTGCCTCCATCACACCCCCTGGGGC
51107 T A A GAGGGCTCAGTCTATACCATCCTCTTTGCCTCCATCACACCCCCTGGGGC
51107 IS [GA] GAGGTGGACTCAGGGCCCTCCAGCCCTGGCGCTGCCCCAGGGGGTGTGATGGAGGCAAAG[GA]GGATGGTATAGA CTGAGCCCTCCCTCTTCCCACTCTGGCTCCCCCAGGTACCACGACAAG ctg12325 11
51224 I A ACACTCCCCATGGCTCTGGATTTATGATGTAAGCCT
51224 P A A CGCGCCGAGGAAACGTGGATACTGAGCY

FIGURE 129D

51224 P	G	A	ATGACGTGGCAGACGAACGTGGATACTGAGCY				
51224 T	A	A	TCTGGCTCAGTATCCACGTTTGGCTTACATCATAAATCCAGAGCCATGGGGAGTGTCT				
51224 T	G	A	TCTGGCTCAGTATCCACGTTCGGCTTACATCATAAATCCAGAGCCATGGGGAGTGTCT				
51224 IS	[AG]		TAGGCTCCGATGAAGTAGGGAAAAGACACTCCCCATGGCTCTGGATTTATGATGTAAGCC[AG]AACGTGGATACTGAG CCAGACACGGAGCAGTGACTTTCCATTTTCCTACGACACCTCAAT	ctg15285	12		
51232 I		A	GCAGACGTTGCATTTGTAGGGACGAATGCCTGT				
51232 P	C	A	ATGACGTGGCAGACCAAGGATGAGGGACAGAY				
51232 P	A	A	CGCGCCGAGGAAAGGATGAGGGACAGAY				
51232 T	C	A	TGTGTCTGTCCCTCATCCTTGCAGGCATTCGTCCCTACAAATGCAACGTCTGCAA				
51232 T	A	A	TGTGTCTGTCCCTCATCCTTTCAGGCATTCGTCCCTACAAATGCAACGTCTGCAA				
51232 IS	[CA]		GAGAGCAGCGCTGGGTGAAGGCTTTATTGCAGACGTTGCATTTGTAGGGACGAATGCCTG[CA]AAGGATGAGGGACA GACACAGCATCGGTTGGTCATGGCCAAGCCAGAACCACCCAACTAT	ctg16279	17		
51285 I		A	CAGCAGGTGCCGGTAGTGGGACGA				
51285 P	C	A	ATGACGTGGCAGACCGATTTCCATATCTTCCTTTCY				
51285 P	T	A	CGCGCCGAGGTGATTTCCATATCTTCCTTTCGY				
51285 T	C	A	CAACCGAAAGGAAGATATGGAAATCGCGTCCCACTACCGGCACCTGCTGCG				
51285 T	T	A	CAACCGAAAGGAAGATATGGAAATCACGTCCCACTACCGGCACCTGCTGCG				
51285 IS	[CT]		ACAGGACGCCGTGCTGCCTCTGCTCGTTGAGCTCCCGCAGCAGGTGCCGGTAGTGGGACG[CT]GATTTCCATATCTT CCTTTCGGTTGTTCATTTGGAAGCCCTGGTGTCGCCTCTTCTACAG	MULTIPLE	MULTIPLE		
51292 I		S	GGTGTGCAGTCCTCAGGCGGCCA				
51292 P	A	S	CGCGCCGAGGTCCTGAGCTCGCAGY				
51292 P	G	S	ATGACGTGGCAGACCCCTGAGCTCGCAY				
51292 T	A	S	CTGGCTGCGAGCTCAGGAGGCCGCCTGAGGACTGCACACCGG				
51292 T	G	S	CTGGCTGCGAGCTCAGGGGGCCGCCTGAGGACTGCACACCGG				
51292 IS	[AG]		ATGTGCCTCATCACACCATCCATCCTGGAGGCACAAGGCCTGGCTGGCTGCGAGCTCAGG[AG]GGCCGCCTGAGGA CTGCACACCGGGCCCACACCTCTCCTGCCCCTCCCTCCTGAGTCCTG				
51781 I		S	GGTCATACTTGTAATCTGCAACCACTGGATCTGTTCTTGTGAATT				
51781 P	C	S	ATGACGTGGCAGACGGAATGTCTTCGTAATGTGG				
51781 P	T	S	CGCGCCGAGGAGAATGTCTTCGTAATGTGGV				
51781 T	C	S	TACTCCACATTACGAAGACATTCCATTCACAAGAACAGATCCAGTGGTTGCAGATTACAAGTATGACCTG				
51781 T	T	S	TACTCCACATTACGAAGACATTCTATTCACAAGAACAGATCCAGTGGTTGCAGATTACAAGTATGACCTG				
51781 IS	[CT]		TCAAGCCCTTCACTACTGTTGACTTCTCCAGCATTTCTACTCCACATTACGAAGACATTC[CT]ATTCACAAGAACAGATC CAGTGGTTGCAGATTACAAGTATGACCTGAAACTTCAAGAGTA				PPARG
51792 I		S	GGTACTGCACCAGGCGGCCGCT				
51792 P	C	S	ATGACGTGGCAGACGCACGTCCTCCATGT				
51792 P	T	S	CGCGCCGAGGACACGTCCTCCATGTCV				
51792 T	C	S	CGCGGACATGGAGGACGTGCGCGGCCGCCTGGTGCAGTACCGC				
51792 T	T	S	CGCGGACATGGAGGACGTGTGCGGCCGCCTGGTGCAGTACCGC				
51792 IS	[CT]		CGGCTGTCCAAGGAGCTGCAGGCGGCGCAGGCCCGGCTGGGCGCGGACATGGAGGACGTG[CT]GCGGCCGCCTG GTGCAGTACCGCGGCGAGGTGCAGGCCATGCTCGGCCAGAGCACCGAGG	ctg16733	3		APOE
51793 I		A	AGAGCGGCCAGCGCTGGGAACA				
51793 P	C	A	ATGACGTGGCAGACCGGCACTGGGTCGV				
51793 P	T	A	CGCGCCGAGGTGGCACTGGGTCGV				
51793 T	C	A	AAAGCGACCCAGTGCCGGTTCCCAGCGCTGGCCGCTCTGC				
51793 T	T	A	AAAGCGACCCAGTGCCAGTTCCCAGCGCTGGCCGCTCTGC				
51793 IS	[CT]		CAGAGCCGGAGCCCGAGCTGCGCCAGCAGACCGAGTGGCAGAGCGGCCAGCGCTGGGAAC[CT]GGCACTGGGTCG CTTTTGGGATTACCTGCGCTGGGTGCAGACACTGTCTGAGCAGGTGCA	ctg15944	11		APOE
52043 I		S	GGAGGAAGCAGAGCAGGGAGTGAAAAAT				
52043 P	C	S	ATGACGTGGCAGACGAGAGGCCCAGCAAY				
52043 P	T	S	CGCGCCGAGGAAGAGGCCCAGCAATY				
52043 T	C	S	GCCAATTGCTGGGCCTCTCTTTTTCACTCCCTGCTCTGCTTCCTCCGA				
52043 T	T	S	GCCAATTGCTGGGCCTCTTTTTTTCACTCCCTGCTCTGCTTCCTCCGA				
52043 IS	[CT]		AAATTGTTTTTTGAATTGATTTAAGAAAATGATACAGATATTGCCAATTGCTGGGCCTCT[CT]TTTTTCACTCCCTGCTC TGCTTCCTCCGATTATTAAATCAAACCAATAAGATTAACATAA	ctg22fin4	22		
52057 I		A	ACGCCAAGGGAGAGTTCGGGACGGT				
52057 P	G	A	ATGACGTGGCAGACGAGCGGCTCCCTCY				
52057 P	C	A	CGCGCCGAGGCAGCGGCTCCCTCY				
52057 T	G	A	CTGGGAGGGAGCCGCTCCCGTCCCGAACTCTCCCTTGGCGTCA				
52057 T	C	A	CTGGGAGGGAGCCGCTGCCGTCCCGAACTCTCCCTTGGCGTCA				
52057 IS	[GC]		GGACGCAATCGGGAACCAGCCCACTCCTGCTGACTGACGCCAAGGGAGAGTTCGGGACGG[GC]AGCGGCTCCCTCC CAGATCTGTAGCCGGCTGGGGCTCGCGGGGGGCTCCCTTCCCGGGGA	ctg22fin4	22		
52202 I		A	CGGTGCATTACTCTGAAATGACCTAGTACTTGAACAATTAATTTTA				
52202 P	T	A	CGCGCCGAGGTAAGGTGTAGCATTGACTTCY				
52202 P	C	A	ATGACGTGGCAGACCAAGGTGTAGCATTGACTTY				
52202 T	T	A	AGGGGAAGTCAATGCTACACCTTAAAAATTAATTGTTCAAGTACTAGGTCATTTCAGAGTAATGCACCGTG				
52202 T	C	A	AGGGGAAGTCAATGCTACACCTTGAAAATTAATTGTTCAAGTACTAGGTCATTTCAGAGTAATGCACCGTG				
52202 IS	[TC]		AATAACATAATTTCACGGTGCATTACTCTGAAATGACCTAGTACTTGAACAATTAATTTT[TC]AAGGTGTAGCATTGACT TCCCCTTGCTGTATTTAACCCATATCTGAAATTGTCAACAATG	MULTIPLE	MULTIPLE		
52274 I		S	TGAGCATTCTGTCATATTTGCTTCATCTTTTAGAAAAAATTACCTACAA				
52274 P	G	S	ATGACGTGGCAGACCGTTTGGTGCTGCCY				
52274 P	A	S	CGCGCCGAGGTGTTTGGTGCTGCCTY				
52274 T	G	S	ATACAGGCAGCACCAAACGTGTAGGTAATTTTTTCTAAAAGATGAAGCAAATATGACAGAATGCTCATT				
52274 T	A	S	ATACAGGCAGCACCAAACATGTAGGTAATTTTTTCTAAAAGATGAAGCAAATATGACAGAATGCTCATT				
52274 IS	[GA]		AAACACCGAATTCAGAAGAGTGGTTAGCACTGGGATGGGGATATACAGGCAGCACCAAAC[GA]TGTAGGTAATTTTTT CTAAAAGATGAAGCAAATATGACAGAATGCTCATTAGACTTTACT	MULTIPLE	MULTIPLE		
52286 I		S	GCTACTGATCCTTCTTGCTGTCTCTTGGACTCCATGTAT				
52286 P	C	S	ATGACGTGGCAGACGTAACCATGTACAAGTTATCACY				
52286 P	T	S	CGCGCCGAGGATAACCATGTACAAGTTATCACCY				
52286 T	C	S	TGGCGGTGATAACTTGTACATGGTTACTACATGGAGTCCAAGAGACAGCAAGAAGGATCAGTAGCAT				
52286 T	T	S	TGGCGGTGATAACTTGTACATGGTTATTACATGGAGTCCAAGAGACAGCAAGAAGGATCAGTAGCAT				
52286 IS	[CT]		GGTGACACCTCCTAATCTACACTCATCTGTAAAATGGCGGTGATAACTTGTACATGGTTA[CT]TACATGGAGTCCAAGA GACAGCAAGAAGGATCAGTAGCATGGTGCCCGCACCTAGCAGCC	MULTIPLE	22		
52318 I		A	AGAGATGTGCCTGACCACCATGCCGGT				
52318 P	C	A	ATGACGTGGCAGACCCCACCTCCAGGGY				
52318 P	A	A	CGCGCCGAGGACCACCTCCAGGGTY				
52318 T	C	A	TTGGACCCTGGAGGTGGGCCGGCATGGTGGTCAGGCACATCTCTGC				
52318 T	A	A	TTGGACCCTGGAGGTGGTCCGGCATGGTGGTCAGGCACATCTCTGC				
52318 IS	[CA]		ACCAGAGGAAGCTCGTGTCTGCCCTACACAGAGCAGAGATGTGCCTGACCACCATGCCGG[CA]CCACCTCCAGGGTC CAACAAAAATGCTTGAGATTGACCCCCCAACACACACTCAAAAAAA	ctg22fin4	22		
52364 I		A	GGTTTTCCACACTGGCTGATGAGGGCTCTT				
52364 P	C	A	CGCGCCGAGGCTCACTCTCAATCTTCTCTTGY				

FIGURE 129D

52364 P	G	A	ATGACGTGGCAGACGTCACTCTCAATCTTCTCTTGY				
52364 T	C	A	TTCACAAGAGAAGATTGAGAGTGAGAGAGCCCTCATCAGCCAGTGTGGAAAACCAG				
52364 T	G	A	TTCACAAGAGAAGATTGAGAGTGACAGAGCCCTCATCAGCCAGTGTGGAAAACCAG				
52364 IS	[CG]		ATAAGCTGGCCTGTAGCTGACATTTACCACTGGTTTTCCACACTGGCTGATGAGGGCTCT[CG]TCACTCTCAATCTTC TCTTGTGAAATGGGTTTTACATCCACGCAACACTCAGGATATTCC	ctg22fin4	22	DUSP5
52590 I		S	GGTGTTTCAGAGAATGTCAGTGGAAGCAGGGGTAAT				
52590 P	C	S	ATGACGTGGCAGACGTTGGAAATAGTATATCCAATGTCY				
52590 P	T	S	CGCGCCGAGGATTGGAAATAGTATATCCAATGTCAY				
52590 T	C	S	TTGCTGACATTGGATATACTATTTCCAACTTACCCCTGCTTCCACTGACATTCTCTGAAACACCAT				
52590 T	T	S	TTGCTGACATTGGATATACTATTTCCAATTTACCCCTGCTTCCACTGACATTCTCTGAAACACCAT				
52590 IS	[CT]		ATAAATCAATTTCTCTATTTTCCACCAATGTCTTGCTGACATTGGATATACTATTTCCAA[CT]TTACCCCTGCTTCCACT GACATTCTCTGAAACACCATATCCAGTGTTTCCCTCACTGTAT	ctg22fin4	22	
52602 I		S	CCTTTCATTCTTGAGCAAATGTGACATTGCTTTCGGCT				
52602 P	T	S	CGCGCCGAGGATGAAAAGACAGATGAAGTTTTAGY				
52602 P	G	S	ATGACGTGGCAGACCTGAAAAGACAGATGAAGTTTTAGY				
52602 T	T	S	GCTCCTAAAACTTCATCTGTCTTTTCATGCCGAAAGCAATGTCACATTTGCTCAAGAATGAAAGGCA				
52602 T	G	S	GCTCCTAAAACTTCATCTGTCTTTTCAGGCCGAAAGCAATGTCACATTTGCTCAAGAATGAAAGGCA				
52602 IS	[TG]		TGCTGACTGCTATTCTCTTAGACCATTTTTAAAGCTCCTAAAACTTCATCTGTCTTTTCA[TG]GCCGAAAGCAATGTCAC ATTTGCTCAAGAATGAAAGGCATTTACCATTGATACCTTTTAA	ctg22fin4	22	
52718 I		S	GGTAACCTCCTGCCACCACATCTATCAGCCTT				
52718 P	T	S	CGCGCCGAGGAGAGCTGACAAGCAGAY				
52718 P	C	S	ATGACGTGGCAGACGGAGCTGACAAGCAGAY				
52718 T	T	S	GCTTTCTGCTTGTCAGCTCTAGGCTGATAGATGTGGTGGCAGGAGGTTACCTG				
52718 T	C	S	GCTTTCTGCTTGTCAGCTCCAGGCTGATAGATGTGGTGGCAGGAGGTTACCTG				
52718 IS	[TC]		AGCAGAGAAGGTTTCAAGATGGAGGGCAGATTTCAGAAGCTGCTTTCTGCTTGTCAGCTC[TC]AGGCTGATAGATGTG GTGGCAGGAGGTTACCTGCAGGAAGCCAGCAGATGGCTAAGGCAT	ctg22fin4	22	
52758 I		A	AGCCTACCAGATGAGCCCCCAGCCT				
52758 P	C	A	CGCGCCGAGGCCTTCCAGTCCCATTTCY				
52758 P	G	A	ATGACGTGGCAGACGCTTCCAGTCCCATTTCY				
52758 T	C	A	TAATGAAATGGGACTGGAAGGGGCTGGGGGGCTCATCTGGTAGGCTTT				
52758 T	G	A	TAATGAAATGGGACTGGAAGCGGCTGGGGGCTCATCTGGTAGGCTTT				
52758 IS	[CG]		ATGAGAGGCACATTTACAGACACGGATTTCCTGCAAAGCCTACCAGATGAGCCCCCAGCC[CG]CTTCCAGTCCCATTT CATTATGCTCACTCCAGAGCAGCCTTCTTTACCACACAGCTTAGC	ctg22fin6	22	
52797 I		S	CGTCACGTCACCGCCCGGGAT				
52797 P	C	S	ATGACGTGGCAGACGAGAGACCCAGGAAAATGY				
52797 P	T	S	CGCGCCGAGGAAGAGACCCAGGAAAATGY				
52797 T	C	S	CCCGCATTTTCCTGGGTCTCTCTCCCGGGCGGTGACGTGACGTG				
52797 T	T	S	CCCGCATTTTCCTGGGTCTCTTTCCCGGGCGGTGACGTGACGTG				
52797 IS	[CT]		GCCGAGAGGCCCACCGGGCGGAGGGGGCCCAACTACCATCCCGCATTTTCCTGGGTCTCT[CT]TCCCGGGCGGTGA CGTGACGTGCTGACGGCGGGCCCGTGCCGGGGAGCTGGGCCGCTTTT	ctg22fin7	22	
52838 I		A	CTTTAAACTGACTCATTTTCGGAACCGGGCCCTT				
52838 P	A	A	CGCGCCGAGGAACCATCAGTGTTAATTAATATCTACY				
52838 P	G	A	ATGACGTGGCAGACGACCATCAGTGTTAATTAATATCTACY				
52838 T	A	A	AAAAGTAGATATTAATTAACACTGATGGTTAGGGCCCGGTTCCGAAAATGAGTCAGTTTAAAGAC				
52838 T	G	A	AAAAGTAGATATTAATTAACACTGATGGTCAGGGCCCGGTTCCGAAAATGAGTCAGTTTAAAGAC				
52838 IS	[AG]		AGCTGCAGGCTCAGAACCCAGACCCGTCTTTAAACTGACTCATTTTCGGAACCGGGCCCT[AG]ACCATCAGTGTTAAT TAATATCTACTTTTCCTTTCTACTCATATTCAATTTACATCATTT	ctg22fin4	22	
61193 I		S	TGGAGTGCCAGATCAGGGAAACAGAAGCCTAT				
61193 P	T	S	CGCGCCGAGGATTTGGCTCCTTCTGCY				
61193 P	G	S	ATGACGTGGCAGACCTTTGGCTCCTTCTGCY				
61193 T	T	S	GCCTGCAGAAGGAGCCAAATTAGGCTTCTGTTTCCCTGATCTGGCACTCCAAG				
61193 T	G	S	GCCTGCAGAAGGAGCCAAAGTAGGCTTCTGTTTCCCTGATCTGGCACTCCAAG				
61193 IS	[TG]		GGGTGTCCAGGTGGGGCCTCTGCTGACCCTAACCCCTTATCGCCTGCAGAAGGAGCCAAA[TG]TAGGCTTCTGTTTC CCTGATCTGGCACTCCAAGGGGACACGCCGACAGCGACAGCAGAGA	ctg22fin4	22	
61208 I		S	AGTTGGAAATAGAAACCCCTGAGGTTTCAGCTCCCA				
61208 P	G	S	ATGACGTGGCAGACCAACCAAGTTTACAAATGAGTAAY				
61208 P	A	S	CGCGCCGAGGTAACCAAGTTTACAAATGAGTAAAGY				
61208 T	G	S	CTTGCTTTACTCATTTGTAAACTTGGTTGGGGAGCTGAAACCTCAGGGGTTTCTATTTCCAACTCC				
61208 T	A	S	CTTGCTTTACTCATTTGTAAACTTGGTTAGGGAGCTGAAACCTCAGGGGTTTCTATTTCCAACTCC				
61208 IS	[GA]		GCTCAGTCCCAGAACTCAGATTGTTGGAGCTACTTGCTTTACTCATTTGTAAACTTGGTT[GA]GGGAGCTGAAACCTCA GGGGTTTCTATTTCCAACTCCAGTCAAGGATGTCTTTACCTATC	ctg22fin4	22	
61323 I		S	GGCCAGGCCCAGCCCTTAGCCT				
61323 P	T	S	CGCGCCGAGGAGGTGCTTTTTCAGGGAY				
61323 P	C	S	ATGACGTGGCAGACGGGTGCTTTTTCAGGGY				
61323 T	T	S	TTGGTCCCTGAAAAAGCACCTGGCTAAGGGCTGGGCCTGGCCAG				
61323 T	C	S	TTGGTCCCTGAAAAAGCACCCGGCTAAGGGCTGGGCCTGGCCAG				
61323 IS	[TC]		GTGGCTCCAAGAAGTGCCTGTGGTCAGGCCCCAGCTCTACTTGGTCCCTGAAAAAGCACC[TC]GGCTAAGGGCTGGG CCTGGCCAGCAGGGAGGGCAGTTGATGAGAGAGGGTGTTCCCGCTG			
61324 I		S	GGCTGTCTACAGCCATGAACAAGCAGGAAATACTCAT				
61324 P	T	S	CGCGCCGAGGAAGTCCCTACACATAACTTTTCY				
61324 P	G	S	ATGACGTGGCAGACCAGTCCCTACACATAACTTTTY				
61324 T	T	S	AATGGAAAAGTTATGTGTAGGGACTTTGAGTATTTCCTGCTTGTTCATGGCTGTAGACAGCCAA				
61324 T	G	S	AATGGAAAAGTTATGTGTAGGGACTGTGAGTATTTCCTGCTTGTTCATGGCTGTAGACAGCCAA				
61324 IS	[TG]		TTAAGGCCTGTCACATGATTAGCATTTAAAGGACCAATGGAAAAGTTATGTGTAGGGACT[TG]TGAGTATTTCCTGCTT GTTCATGGCTGTAGACAGCCAAGCTCACCCTTTCTGGGGTCCTA	ctg22fin4	22	
61332 I		A	CTTCCGCTAGTCTGAGGGCAGAGGGACA				
61332 P	C	A	ATGACGTGGCAGACCGGTCAAAGAGGGTGGY				
61332 P	T	A	CGCGCCGAGGTGGTCAAAGAGGGTGGY				
61332 T	C	A	TGTGCCACCCTCTTTGACCGGTCCCTCTGCCCTCAGACTAGCGGAAGCA				
61332 T	T	A	TGTGCCACCCTCTTTGACCAGTCCCTCTGCCCTCAGACTAGCGGAAGCA				
61332 IS	[CT]		GAGACCCGCTCCTCCACTTTCAGGTGTAATTTGCTTCCGCTAGTCTGAGGGCAGAGGGAC[CT]GGTCAAAGAGGGTG GCACAGATCGCAGCACCTTGAGGGGCTGCGGGTCTGAGGGAGGAGA	ctg22fin4	22	
61337 I		S	GTGCCGGCCTCGGCAGTAACCAT				
61337 P	T	S	CGCGCCGAGGAGTGTTTAACTGAGGCCY				
61337 P	C	S	ATGACGTGGCAGACGGTGTTTAACTGAGGCCY				
61337 T	T	S	AAAGGGCCTCAGTTAAACACTTGGTTACTGCCGAGGCCGGCACTG				
61337 T	C	S	AAAGGGCCTCAGTTAAACACCTGGTTACTGCCGAGGCCGGCACTG				
61337 IS	[TC]		AGCTTACATTTTATTTCCAAGGGGTGTTTTAGAGCACTTGAAAGGGCCTCAGTTAAACAC[TC]TGGTTACTGCCGAGG CCGGCACTGGGGAGGGCAGAAGGGCCCTTTCGTTCTGGGGTAGTA	ctg22fin4	22	
61412 I		S	CACACACAAGAAAAACTCAGGAAAGTGTCTAGTATAACTTAACAAGCATTTTCAA				
61412 P	G	S	ATGACGTGGCAGACCTAAAACAACTTTAAAACAAACAGCY				
61412 P	A	S	CGCGCCGAGGTTAAAACAACTTTAAAACAAACAGCY				
61412 T	G	S	TAGAGCTGTTTGTTTTAAAGTTGTTTTAGTGAAAATGCTTGTTAAGTTATACTAGACACTTTCCTGAGTTTTTCTTGTGT GTGGT				
61412 T	A	S	TAGAGCTGTTTGTTTTAAAGTTGTTTTAATGAAAATGCTTGTTAAGTTATACTAGACACTTTCCTGAGTTTTTCTTGTGT GTGGT				

FIGURE 129D

			TGCAATTAAAAGTTGTTTTGTTTTTTTTCTTTTAGAGCTGTTTGTTTTAAAGTTGTTTTA[GA]TGAAAATGCTTGTTAAGT			
61412 IS	[GA]		TATACTAGACACTTTCCTGAGTTTTTCTTGTGTGTGGTGGGA	ctg22fin4	22	
61530 I		S	CAAGGGCAAGGCTGCTGGGGGATATTGT			
61530 P	C	S	ATGACGTGGCAGACGTAACTACCCCAGTGTCCY			
61530 P	T	S	CGCGCCGAGGATAACTACCCCAGTGTCCY			
61530 T	C	S	AGGTGGACACTGGGGTAGTTACCAATATCCCCCAGCAGCCTTGCCCTTGAC			
61530 T	T	S	AGGTGGACACTGGGGTAGTTATCAATATCCCCCAGCAGCCTTGCCCTTGAC			
			GCTGGGCTGTTGCTTGCTGCCGTCTCCTTCAGAAGCTCAAGGTGGACACTGGGGTAGTTA[CT]CAATATCCCCCAGC			
61530 IS	[CT]		AGCCTTGCCCTTGACATGGTCCCAGATGGCAGAAGCAGGGGAGAAG	ctg22fin4	22	
61582 I		S	CAGTTTGCAAAACAAAAAGAGGACACAGGAGCACTTTTAACGA			
61582 P	A	S	CGCGCCGAGGTTCAGGCTGTATATTTCAGTTY			
61582 P	G	S	ATGACGTGGCAGACCTCAGGCTGTATATTTCAGTTY			
61582 T	A	S	GGGGAACTGAAATATACAGCCTGAACGTTAAAAGTGCTCCTGTGTCCTCTTTTTGTTTTGCAAACTGAG			
61582 T	G	S	GGGGAACTGAAATATACAGCCTGAGCGTTAAAAGTGCTCCTGTGTCCTCTTTTTGTTTTGCAAACTGAG			
			GTTATTTTGGCAAATCGTCCGTCTCGAGGGCCTTGGGGGGAACTGAAATATACAGCCTGA[AG]CGTTAAAAGTGCTCC			
61582 IS	[AG]		TGTGTCCTCTTTTTGTTTTGCAAACTGAGTCTCAGCTTCTTTTTG	ctg22fin4	22	
61594 I		A	CCTCCTTTCCATCCTCTCCCCTTCCCATGAT			
61594 P	G	A	ATGACGTGGCAGACGTGTGGGGCTTGATTTY			
61594 P	A	A	CGCGCCGAGGATGTGGGGCTTGATTTGY			
61594 T	G	A	AAAACAAATCAAGCCCCACACTCATGGGAAGGGGAGAGGATGGAAAGGAGGGG			
61594 T	A	A	AAAACAAATCAAGCCCCACATTCATGGGAAGGGGAGAGGATGGAAAGGAGGGG			
			ACACTTCCCCTTGGTGCCATCATCCCTGCCCCTCCTTTCCATCCTCTCCCCTTCCCATGA[GA]TGTGGGGCTTGATTT			
61594 IS	[GA]		GTTTTACCCCTTAAGTGGGCTGAAGATGTAAAGCTTAACCTCTTC	ctg22fin8	22	
61605 I		A	CACGTGGGGTCCCGGGGGTCA			
61605 P	C	A	ATGACGTGGCAGACCTGCTTTTAACATTGCCTTCY			
61605 P	T	A	CGCGCCGAGGTTGCTTTTAACATTGCCTTCY			
61605 T	C	A	GCTGGAAGGCAATGTTAAAAGCAGGACCCCCGGGACCCCACGTGGA			
61605 T	T	A	GCTGGAAGGCAATGTTAAAAGCAAGACCCCCGGGACCCCACGTGGA			
			ATTTGTAAGAAAACTCTGGAGAAAGCCCTGCCATGACTTCCACGTGGGGTCCCGGGGGTC[CT]TGCTTTTAACATTGC			
61605 IS	[CT]		CTTCCAGCTTTGTACCCAGCATGCTGTCTACGTGCTGATTACAGG			
61661 I		S	CCATCAGAGAGTAATTTTAAGGGTGTTCTGATTTGTTGTTATTTTTTAACT			
61661 P	T	S	CGCGCCGAGGAAAGTGAAGACGCTGCY			
61661 P	G	S	ATGACGTGGCAGACCAAGTGAAGACGCTGCY			
61661 T	T	S	AAAGGCAGCGTCTTCACTTTGTTAAAAAATAACAACAAATCAGAACACCCTTAAAATTACTCTCTGATGGTT			
61661 T	G	S	AAAGGCAGCGTCTTCACTTGGTTAAAAAATAACAACAAATCAGAACACCCTTAAAATTACTCTCTGATGGTT			
			CAAACTCCAGACAGCATTTCAGAGGGCCCAACTGCCCAAGCAAAGGCAGCGTCTTCACTT[TG]GTTAAAAAATAACAA			
61661 IS	[TG]		CAAATCAGAACACCCTTAAAATTACTCTCTGATGGTTTTTCCCTT	ctg22fin4	22	
61787 I		S	ACAGATCTGGAGGCTTTTTACATAATTACATAAAAATAAGAATTGTTTTAAGACAGA			
61787 P	A	S	CGCGCCGAGGTGTCATTATAACCAGAAGGCY			
61787 P	G	S	ATGACGTGGCAGACCGTCATTATAACCAGAAGGCY			
			TTTAGCCTTCTGGTTATAATGACACTGTCTTAAAAACAATTCTTATTTTTATGTAATTATGTAAAAAGCCTCCAGATCTGT			
61787 T	A	S	TT			
			TTTAGCCTTCTGGTTATAATGACGCTGTCTTAAAAACAATTCTTATTTTTATGTAATTATGTAAAAAGCCTCCAGATCTG			
61787 T	G	S	TTT			
			GGATTCTCAGGGGGCAGCCAGAAGTTGGCATGGGAATTTTAGCCTTCTGGTTATAATGAC[AG]CTGTCTTAAAAACAA			
61787 IS	[AG]		TTCTTATTTTTATGTAATTATGTAAAAAGCCTCCAGATCTGTTTT	ctg22fin9	22	
61887 I		A	GCTCATCTCCTCACACTGCTGCCCTATGGAAGC			
61887 P	T	A	CGCGCCGAGGTTCCCTCTGCTTAAGCTY			
61887 P	G	A	ATGACGTGGCAGACGTCCCTCTGCTTAAGCTY			
61887 T	T	A	TTTAAGCTTAAGCAGAGGGAACTTCCATAGGGCAGCAGTGTGAGGAGATGAGCAT			
61887 T	G	A	TTTAAGCTTAAGCAGAGGGACCTTCCATAGGGCAGCAGTGTGAGGAGATGAGCAT			
			ATGAAATTTGAGTTTGTTTTGGAAGCATGCTCATCTCCTCACACTGCTGCCCTATGGAAG[TG]TCCCTCTGCTTAAGCT			
61887 IS	[TG]		TAAACAGTAGTGCACAAAATATGCTGCTTACGTGCCCCCAGCCC	ctg22fin5	22	
61953 I		S	CTTCCAAGGCCCCTGCCTTTCTCTTGTCAT			
61953 P	G	S	CGCGCCGAGGCCTCCAGTCCACATTTCY			
61953 P	C	S	ATGACGTGGCAGACGCTCCAGTCCACATTTCY			
61953 T	G	S	AGAAGAAATGTGGACTGGAGGTGACAAGAGAAAGGCAGGGGCCTTGGAAGCC			
61953 T	C	S	AGAAGAAATGTGGACTGGAGCTGACAAGAGAAAGGCAGGGGCCTTGGAAGCC			
			GAGCAGGATGCAGCGGGGAGAAATGTGGACTAGAGATGACAGAAGAAATGTGGACTGGAG[GC]TGACAAGAGAAAG			
61953 IS	[GC]		GCAGGGGCCTTGGAAGCCAAGGTGGTGGGGACAAGCTTCAGAGAGGA	ctg22fin4	22	
61965 I		A	GCTAAGTGCAGCCAATCGAATATGAACCCATTT			
61965 P	A	A	CGCGCCGAGGATACTAGGGCAAAATTCCACY			
61965 P	G	A	ATGACGTGGCAGACGTACTAGGGCAAAATTCCAY			
61965 T	A	A	CAAAGTGGAATTTTGCCCTAGTATAATGGGTTCATATTCGATTGGCTGCACTTAGCTA			
61965 T	G	A	CAAAGTGGAATTTTGCCCTAGTACAATGGGTTCATATTCGATTGGCTGCACTTAGCTA			
			TTTCTTCTTCTCCTCCTCAGGATTTATAGCTAAGTGCAGCCAATCGAATATGAACCCATT[AG]TACTAGGGCAAAATTC			
61965 IS	[AG]		CACTTTGGGTTCAGGATTTACCCAGCATGTGGCTCCTCTGGCAG	ctg22fin5	22	
62038 I		S	ACCCGGAAATGCGAGGGAAGGACAAGTGT			
62038 P	C	S	ATGACGTGGCAGACGGGAAAGCCAATCCGY			
62038 P	T	S	CGCGCCGAGGAGGAAAGCCAATCCGY			
62038 T	C	S	GCGGCGGATTGGCTTTCCCCACTTGTCCTTCCCTCGCATTTCCGGGTTC			
62038 T	T	S	GCGGCGGATTGGCTTTCCTCACTTGTCCTTCCCTCGCATTTCCGGGTTC			
			CGCCCCCGGCGACTTGCCATTGAACCGCCCGCAGCCCTCGTCGCGGCGGATTGGCTTTCC[CT]CACTTGTCCTTCCC			
62038 IS	[CT]		TCGCATTTCCGGGTTCCCGCGTCCGCGTCGGCTTCCCCGGGAAAGA	ctg22fin4	22	
62078 I		S	CGTGGGGTCACTGTGGCCTGCTGC			
62078 P	C	S	ATGACGTGGCAGACGGCAGTTGGTTGGGY			
62078 P	A	S	CGCGCCGAGGTGCAGTTGGTTGGGGY			
62078 T	C	S	TGCCCCCCAACCAACTGCCCAGCAGGCCACAGTGACCCCACGCT			
62078 T	A	S	TGCCCCCCAACCAACTGCACAGCAGGCCACAGTGACCCCACGCT			
			CTCCACCACCCATGCTGTCCTGACTCCACCCCCCTGCTCCTCTGCCCCCCAACCAACTGC[CA]CAGCAGGCCACAGT			
62078 IS	[CA]		GACCCCACGCTCCCGAATCTGCAGCAGGTCCCCAGTCCTCACTGGC	ctg22fin6	22	
62095 I		A	TGCTTCTGTGACTGTTCCTGGCAGGCATCA			
62095 P	C	A	ATGACGTGGCAGACCGTATCCACCCCTCATY			
62095 P	T	A	CGCGCCGAGGTGTATCCACCCCTCATCY			
62095 T	C	A	GTGGGATGAGGGGTGGATACGGATGCCTGCCAGGAACAGTCACAGAAGCACA			
62095 T	T	A	GTGGGATGAGGGGTGGATACAGATGCCTGCCAGGAACAGTCACAGAAGCACA			
			GAGGCCTGCAGATGCCCTGGAGGCTCCTGTGTGCTTCTGTGACTGTTCCTGGCAGGCATC[CT]GTATCCACCCCTCA			
62095 IS	[CT]		TCCCACACCTGGTTGGGGTCTGGCTGTGCTCCTGGGAGCTGTGCTG	ctg22fin4	22	FLJ14126
62105 I		A	AGCAATCCACCCCCTTAAAGTGCAGCACTT			
62105 P	C	A	ATGACGTGGCAGACCATTATCTTTCCATTTCTGCTAGY			
62105 P	A	A	CGCGCCGAGGAATTATCTTTCCATTTCTGCTAGY			
62105 T	C	A	TTTACTAGCAGAAATGGAAAGATAATGAGTGCTGCACTTTAAGGGGGTGGATTGCTAT			
62105 T	A	A	TTTACTAGCAGAAATGGAAAGATAATTAGTGCTGCACTTTAAGGGGGTGGATTGCTAT			
			TGTTTCTCTTTCTAGTATCAGTTCTTTTAATAGCAATCCACCCCCTTAAAGTGCAGCACT[CA]ATTATCTTTCCATTTCT			
62105 IS	[CA]		GCTAGTAAAAATTAAACCTAGGTTACTAATATCTTCTTATCAC	ctg22fin4	22	

FIGURE 129D

62138 I		A	AGCGTGGGCTGCTGTCTTCAAACTAACCAA			
62138 P	T	A	CGCGCCGAGGTCCTGAAACTGCTTTAAAGAY			
62138 P	C	A	ATGACGTGGCAGACCCCTGAAACTGCTTTAAAGAY			
62138 T	T	A	AGGCTCTTTAAAGCAGTTTCAGGATGGTTAGTTTGAAGACAGCAGCCCACGCTGG			
62138 T	C	A	AGGCTCTTTAAAGCAGTTTCAGGGTGGTTAGTTTGAAGACAGCAGCCCACGCTGG			
62138 IS	[TC]		CTCCCCACACCCAGCCCCGTCTGCCTTCTCCAGCGTGGGCTGCTGTCTTCAAACTAACCA[TC]CCTGAAACTGCTTTA AAGAGCCTGACAGGTAATTTATTCTGTGGCAGAGGATAGCAATTT	ctg22fin4	22	
62226 I		S	TGGTATCAGAGGTAAGACCTGGCCAGGTACTAGCT			
62226 P	T	S	CGCGCCGAGGATCTCAAAGTTACTGCACTTATY			
62226 P	C	S	ATGACGTGGCAGACGTCTCAAAGTTACTGCACTY			
62226 T	T	S	GCACATAAGTGCAGTAACTTTGAGATGCTAGTACCTGGCCAGGTCTTACCTCTGATACCATC			
62226 T	C	S	GCACATAAGTGCAGTAACTTTGAGACGCTAGTACCTGGCCAGGTCTTACCTCTGATACCATC			
62226 IS	[TC]		AAGGATTTAGAAAAGTTTTGAGCGCTTCTTGGGCTGCACATAAGTGCAGTAACTTTGAGA[TC]GCTAGTACCTGGCCA GGTCTTACCTCTGATACCATCAGCAGTCAGCTATAACATACAGTG	ctg22fin4	22	
62274 I		A	TGTGGATGCATCTTTGTAAATTTCTCTGTTCTCAAATTTAACTTATGTT			
62274 P	G	A	ATGACGTGGCAGACGTGACATTTACAGGGATGCY			
62274 P	A	A	CGCGCCGAGGATGACATTTACAGGGATGCY			
62274 T	G	A	CACAGCATCCCTGTAAATGTCACACATAAGTTAAATTTGAGAACAGAGAAATTTACAAAGATGCATCCACACT			
62274 T	A	A	CACAGCATCCCTGTAAATGTCATACATAAGTTAAATTTGAGAACAGAGAAATTTACAAAGATGCATCCACACT			
62274 IS	[GA]		AATATGAATAAGTGTGGATGCATCTTTGTAAATTTCTCTGTTCTCAAATTTAACTTATGT[GA]TGACATTTACAGGGATG CTGTGGAGATGATAATGGTCTCATGGAAGTAGAGGGAGCTCAT	ctg22fin4	22	
62340 I		S	ACCCCTCCCCACGCTCATGGACCT			
62340 P	G	S	ATGACGTGGCAGACCGACCACCCACAGCY			
62340 P	T	S	CGCGCCGAGGAGACCACCCACAGCY			
62340 T	G	S	GGAAGCTGTGGGTGGTCGGGTCCATGAGCGTGGGGAGGGGTCT			
62340 T	T	S	GGAAGCTGTGGGTGGTCTGGTCCATGAGCGTGGGGAGGGGTCT			
62340 IS	[GT]		GGGAACAAGGAGGCCTTGGTTCAGGGATGGGGAGGACCCCATGGGAAGCTGTGGGTGGTC[GT]GGTCCATGAGCGT GGGGAGGGGTCTCCTGGCCAGGTCAAGGCCCAAGCGGTCTCCTGAGA	ctg22fin4	22	
62360 I		S	AGATATTGCTGGTCCAGGAAAAAGATGGGACATTTCCAT			
62360 P	C	S	ATGACGTGGCAGACGATGAATGGGAAAGGGTAGY			
62360 P	T	S	CGCGCCGAGGAATGAATGGGAAAGGGTAGY			
62360 T	C	S	TTGTCTACCCTTTCCCATTCATCTGGAAATGTCCCATCTTTTTCCTGGACCAGCAATATCTGG			
62360 T	T	S	TTGTCTACCCTTTCCCATTCATTTGGAAATGTCCCATCTTTTTCCTGGACCAGCAATATCTGG			
62360 IS	[CT]		ATTTTACATTCCCTTTATACAGAGACTTCATTTGGATGTTGTCTACCCTTTCCCATTCAT[CT]TGGAAATGTCCCATCTT TTTCCTGGACCAGCAATATCTGGCAAGGGTAAAGATTTTAGTT	ctg22fin7	22	
62459 I		S	GCTATCAATTCAGAAAGGCATATCATTATTTCAGATAAAAGGCACAA			
62459 P	A	S	CGCGCCGAGGTGCTATCTTTTAATAACTCGAGTY			
62459 P	G	S	ATGACGTGGCAGACCGCTATCTTTTAATAACTCGAGY			
62459 T	A	S	GATAACTCGAGTTATTAAAAGATAGCATGTGCCTTTTATCTGAAATAATGATATGCCTTTCTGAATTGATAGCAT			
62459 T	G	S	GATAACTCGAGTTATTAAAAGATAGCGTGTGCCTTTTATCTGAAATAATGATATGCCTTTCTGAATTGATAGCAT			
62459 IS	[AG]		GTTTTGTTTTTTAAACATAGATTCTAATTCAGTTGATAACTCGAGTTATTAAAAGATAGC[AG]TGTGCCTTTTATCTGAAA TAATGATATGCCTTTCTGAATTGATAGCATATGTTTTAAAGG	ctg22fin7	22	
62530 I		A	TCATCGAGTTATATTTTATTCACTATGCATATGCTGAGAAAATACTGAGAT			
62530 P	G	A	ATGACGTGGCAGACGTTATTTCTTTTATTCAATGGACCAY			
62530 P	A	A	CGCGCCGAGGATTATTTCTTTTATTCAATGGACCAY			
62530 T	G	A	ACCTTGGTCCATTGAATAAAAGAAATAACTCTCAGTATTTTCTCAGCATATGCATAGTGAATAAAATATAACTCGATGAC A			
62530 T	A	A	ACCTTGGTCCATTGAATAAAAGAAATAATTCTCAGTATTTTCTCAGCATATGCATAGTGAATAAAATATAACTCGATGAC A			
62530 IS	[GA]		ATTTTTGTTGTCATCGAGTTATATTTTATTCACTATGCATATGCTGAGAAAATACTGAGA[GA]TTATTTCTTTTATTCAAT GGACCAAGGTCATGATTATTAGCATCAGTTATTACAGCTTTA	ctg22fin4	22	
62780 I		S	ACTCCATGCCCAAGAGAGCAAGCATGAGCT			
62780 P	C	S	ATGACGTGGCAGACGGCCGTCTTTCTGAAGAY			
62780 P	T	S	CGCGCCGAGGAGCCGTCTTTCTGAAGAY			
62780 T	C	S	AGCCTCTTCAGAAAGACGGCCGCTCATGCTTGCTCTCTTGGGCATGGAGTGG			
62780 T	T	S	AGCCTCTTCAGAAAGACGGCTGCTCATGCTTGCTCTCTTGGGCATGGAGTGG			
62780 IS	[CT]		AGGAATGAAAAGAGAAAGAGGGAAAGAGGGAAGGATGGTGAGCCTCTTCAGAAAGACGGC[CT]GCTCATGCTTGCTC TCTTGGGCATGGAGTGGGTCACTGGCTGGACGTTTAATGGGTTTAC	ctg22fin4	22	
63037 I		S	GTTTGCTTTTCCATTGTGGCACTTTAAACTCCCT			
63037 P	T	S	CGCGCCGAGGAGTATTAGAAATTTCTGTGTTTTGTY			
63037 P	C	S	ATGACGTGGCAGACGGTATTAGAAATTTCTGTGTTTTGTY			
63037 T	T	S	AGAAACAAAACACAGAAATTTCTAATACTGGGAGTTTAAAGTGCCACAATGGAAAAGCAAACTC			
63037 T	C	S	AGAAACAAAACACAGAAATTTCTAATACCGGGAGTTTAAAGTGCCACAATGGAAAAGCAAACTC			
63037 IS	[TC]		CAATAATATTAACACGGTATTCTTAGCCCTTAAGAAACAAAACACAGAAATTTCTAATAC[TC]GGGAGTTTAAAGTGCCA CAATGGAAAAGCAAACTCAATTACAAATGCTGGATTCCACCTG	ctg22fin6	22	
63125 I		S	CAGTGGGAACAAGGGAAAGAGGCCAAAAAAGACAAAAAT			
63125 P	T	S	CGCGCCGAGGATCCATACTCTACTAAAATATATTAATAAAACAY			
63125 P	G	S	ATGACGTGGCAGACCTCCATACTCTACTAAAATATATTAATAAAACY			
63125 T	T	S	CCTTTGTTTTATTAATATATTTTAGTAGAGTATGGATTTTTTGTCTTTTTTGGCCTCTTTCCCTTGTTCCCACTGGC			
63125 T	G	S	CCTTTGTTTTATTAATATATTTTAGTAGAGTATGGAGTTTTTGTCTTTTTTGGCCTCTTTCCCTTGTTCCCACTGGC			
63125 IS	[TG]		TCACTAGAAAAGAGAGCAGGCCCTCCTTTGTTTTATTAATATATTTTAGTAGAGTATGGA[TG]TTTTTGTCTTTTTTGGC CTCTTTCCCTTGTTCCCACTGGCCCGTGCTGTCTTTTTATTTG	ctg22fin7	22	
63171 I		A	AGGCTCTGGAGGCAAGAGAGATGGAAGAATGTTCA			
63171 P	C	A	ATGACGTGGCAGACCTAACTAGCTAAAACTCATACACAY			
63171 P	T	A	CGCGCCGAGGTTAACTAGCTAAAACTCATACACAY			
63171 T	C	A	ATTATGTGTATGAGTTTTAGCTAGTTAGGAACATTCTTCCATCTCTCTTGCCTCCAGAGCCTGG			
63171 T	T	A	ATTATGTGTATGAGTTTTAGCTAGTTAAGAACATTCTTCCATCTCTCTTGCCTCCAGAGCCTGG			
63171 IS	[CT]		GACTATTAATAGTTGCAATTATTTCCAGGCTCTGGAGGCAAGAGAGATGGAAGAATGTTC[CT]TAACTAGCTAAAACTC ATACACATAATGGGTCTTTTAGATGCTGAATACTGAGGGTCACT	ctg22fin4	22	
63221 I		A	GCTAGTCTCATCCCTCCCATCTGTAGCCCTAAGAT			
63221 P	G	A	ATGACGTGGCAGACGGCAAGCCTGTATCTGY			
63221 P	A	A	CGCGCCGAGGAGCAAGCCTGTATCTGTY			
63221 T	G	A	TTGCACAGATACAGGCTTGCCTCTTAGGGCTACAGATGGGAGGGATGAGACTAGCTC			
63221 T	A	A	TTGCACAGATACAGGCTTGCTTCTTAGGGCTACAGATGGGAGGGATGAGACTAGCTC			
63221 IS	[GA]		ATGCATGGAATGTGCCCTCTTGAAGAGCTAGTCTCATCCCTCCCATCTGTAGCCCTAAGA[GA]GCAAGCCTGTATCTG TGCAAGGTATGGACCCGGGCAAGGGACATGGCGCCTCCCCCACCC	ctg22fin4	22	
63264 I		A	TGGGAAATAAGTCTCAGGTTAGGTCACCATTTTGAGAAAATTTCTACACATAAA			
63264 P	T	A	CGCGCCGAGGTGTTTACATTTAGGAGAGGAAAAY			
63264 P	C	A	ATGACGTGGCAGACCGTTTACATTTAGGAGAGGAAY			
63264 T	T	A	ACATTTTTCCTCTCCTAAATGTAAACATTATGTGTAGAAATTTTCTCAAAATGGTGACCTAACCTGAGACTTATTTCCCA TG			
63264 T	C	A	ACATTTTTCCTCTCCTAAATGTAAACGTTATGTGTAGAAATTTTCTCAAAATGGTGACCTAACCTGAGACTTATTTCCCA TG			

FIGURE 129D

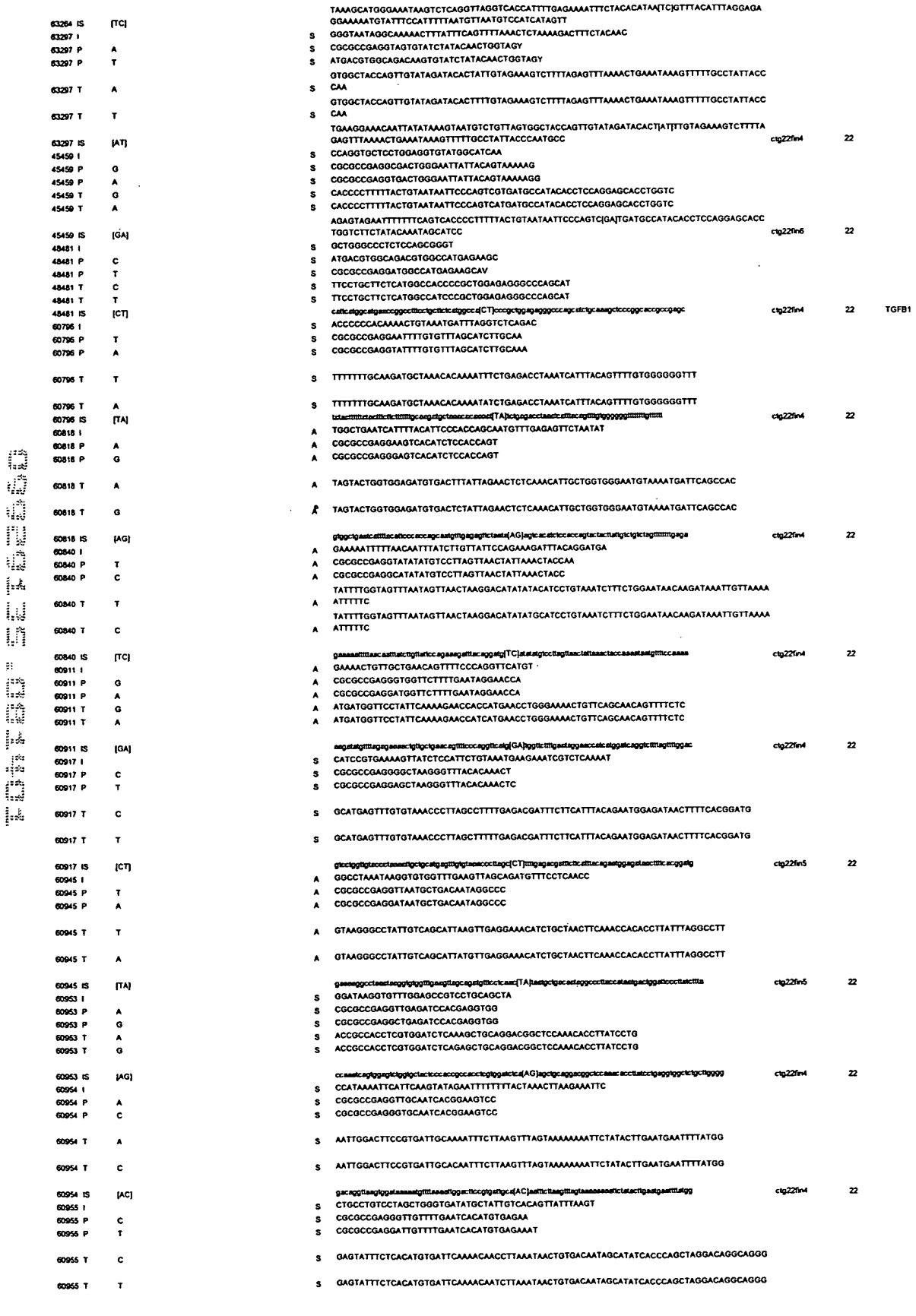

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63264 IS [TC] GGAAAAATGTATTTCCATTTTTAATGTTAATGTCCATCATAGTT
63297 I S GGGTAATAGGCAAAAACTTTATTTCAGTTTTAAACTCTAAAAGACTTTCTACAAC
63297 P A S CGCGCCGAGGTAGTGTATCTATACAACTGGTAGY
63297 P T S ATGACGTGGCAGACAAGTGTATCTATACAACTGGTAGY
GTGGCTACCAGTTGTATAGATACACTATTGTAGAAAGTCTTTTAGAGTTTAAAACTGAAATAAAGTTTTTGCCTATTACC
63297 T A S CAA
GTGGCTACCAGTTGTATAGATACACTTTTGTAGAAAGTCTTTTAGAGTTTAAAACTGAAATAAAGTTTTTGCCTATTACC
63297 T T S CAA
TGAAGGAAACAATTATATAAAGTAATGTCTGTTAGTGGCTACCAGTTGTATAGATACACT[AT]TTGTAGAAAGTCTTTTA
63297 IS [AT] GAGTTTAAAACTGAAATAAAGTTTTTGCCTATTACCCAATGCC ctg22fin4 22
45459 I S CCAGGTGCTCCTGGAGGTGTATGGCATCAA
45459 P G S CGCGCCGAGGCGACTGGGAATTATTACAGTAAAAAG
45459 P A S CGCGCCGAGGTGACTGGGAATTATTACAGTAAAAAGG
45459 T G S CACCCCTTTTTACTGTAATAATTCCCAGTCGTGATGCCATACACCTCCAGGAGCACCTGGTC
45459 T A S CACCCCTTTTTACTGTAATAATTCCCAGTCATGATGCCATACACCTCCAGGAGCACCTGGTC
AGAGTAGAATTTTTTTCAGTCACCCCTTTTTACTGTAATAATTCCCAGTC[GA]TGATGCCATACACCTCCAGGAGCACC
45459 IS [GA] TGGTCTTCTATACAAATAGCATCC ctg22fin6 22
48481 I S GCTGGGCCCTCTCCAGCGGGT
48481 P C S ATGACGTGGCAGACGTGGCCATGAGAAGC
48481 P T S CGCGCCGAGGATGGCCATGAGAAGCAV
48481 T C S TTCCTGCTTCTCATGGCCACCCCGCTGGAGAGGGCCCAGCAT
48481 T T S TTCCTGCTTCTCATGGCCATCCCGCTGGAGAGGGCCCAGCAT
48481 IS [CT] ctg22fin4 22 TGFB1
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60796 P T S CGCGCCGAGGAATTTTGTGTTTAGCATCTTGCAA
60796 P A S CGCGCCGAGGTATTTTGTGTTTAGCATCTTGCAAA
60796 T T S TTTTTTTGCAAGATGCTAAACACAAAATTTCTGAGACCTAAATCATTTACAGTTTTGTGGGGGGGTTT
60796 T A S TTTTTTTGCAAGATGCTAAACACAAAATATCTGAGACCTAAATCATTTACAGTTTTGTGGGGGGTTT
60796 IS [TA] ctg22fin4 22
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60818 P A A CGCGCCGAGGAAGTCACATCTCCACCAGT
60818 P G A CGCGCCGAGGGAGTCACATCTCCACCAGT
60818 T A A TAGTACTGGTGGAGATGTGACTTTATTAGAACTCTCAAACATTGCTGGTGGGAATGTAAAATGATTCAGCCAC
60818 T G A TAGTACTGGTGGAGATGTGACTCTATTAGAACTCTCAAACATTGCTGGTGGGAATGTAAAATGATTCAGCCAC
60818 IS [AG] ctg22fin4 22
60840 I A GAAAAATTTTTAACAATTTATCTTGTTATTCCAGAAAGATTTACAGGATGA
60840 P T A CGCGCCGAGGTATATATGTCCTTAGTTAACTATTAAACTACCAA
60840 P C A CGCGCCGAGGCATATATGTCCTTAGTTAACTATTAAACTACC
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60840 IS [TC] ctg22fin4 22
60911 I A GAAAACTGTTGCTGAACAGTTTTCCCAGGTTCATGT
60911 P G A CGCGCCGAGGGTGGTTCTTTTGAATAGGAACCA
60911 P A A CGCGCCGAGGATGGTTCTTTTGAATAGGAACCA
60911 T G A ATGATGGTTCCTATTCAAAAGAACCACCATGAACCTGGGAAAACTGTTCAGCAACAGTTTTCTC
60911 T A A ATGATGGTTCCTATTCAAAAGAACCATCATGAACCTGGGAAAACTGTTCAGCAACAGTTTTCTC
60911 IS [GA] ctg22fin4 22
60917 I S CATCCGTGAAAAGTTATCTCCATTCTGTAAATGAAGAAATCGTCTCAAAAT
60917 P C S CGCGCCGAGGGGCTAAGGGTTTACACAAACT
60917 P T S CGCGCCGAGGAGCTAAGGGTTTACACAAACTC
60917 T C S GCATGAGTTTGTGTAAACCCTTAGCCTTTTGAGACGATTTCTTCATTTACAGAATGGAGATAACTTTTCACGGATG
60917 T T S GCATGAGTTTGTGTAAACCCTTAGCTTTTTGAGACGATTTCTTCATTTACAGAATGGAGATAACTTTTCACGGATG
60917 IS [CT] ctg22fin5 22
60945 I A GGCCTAAATAAGGTGTGGTTTGAAGTTAGCAGATGTTTCCTCAACC
60945 P T A CGCGCCGAGGTTAATGCTGACAATAGGCCC
60945 P A A CGCGCCGAGGATAATGCTGACAATAGGCCC
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60945 T A A GTAAGGGCCTATTGTCAGCATTATGTTGAGGAAACATCTGCTAACTTCAAACCACACCTTATTTAGGCCTT
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60953 IS [AG] ctg22fin4 22
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60954 P A S CGCGCCGAGGTTGCAATCACGGAAGTCC
60954 P C S CGCGCCGAGGGTGCAATCACGGAAGTCC
60954 T A S AATTGGACTTCCGTGATTGCAAAATTTCTTAAGTTTAGTAAAAAAAATTCTATACTTGAATGAATTTTATGG
60954 T C S AATTGGACTTCCGTGATTGCACAATTTCTTAAGTTTAGTAAAAAAAATTCTATACTTGAATGAATTTTATGG
60954 IS [AC] ctg22fin4 22
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60955 P C S CGCGCCGAGGGTTGTTTTGAATCACATGTGAGAA
60955 P T S CGCGCCGAGGATTGTTTTGAATCACATGTGAGAAAT
60955 T C S GAGTATTTCTCACATGTGATTCAAAACAACCTTAAATAACTGTGACAATAGCATATCACCCAGCTAGGACAGGCAGGG
60955 T T S GAGTATTTCTCACATGTGATTCAAAACAATCTTAAATAACTGTGACAATAGCATATCACCCAGCTAGGACAGGCAGGG

FIGURE 129D

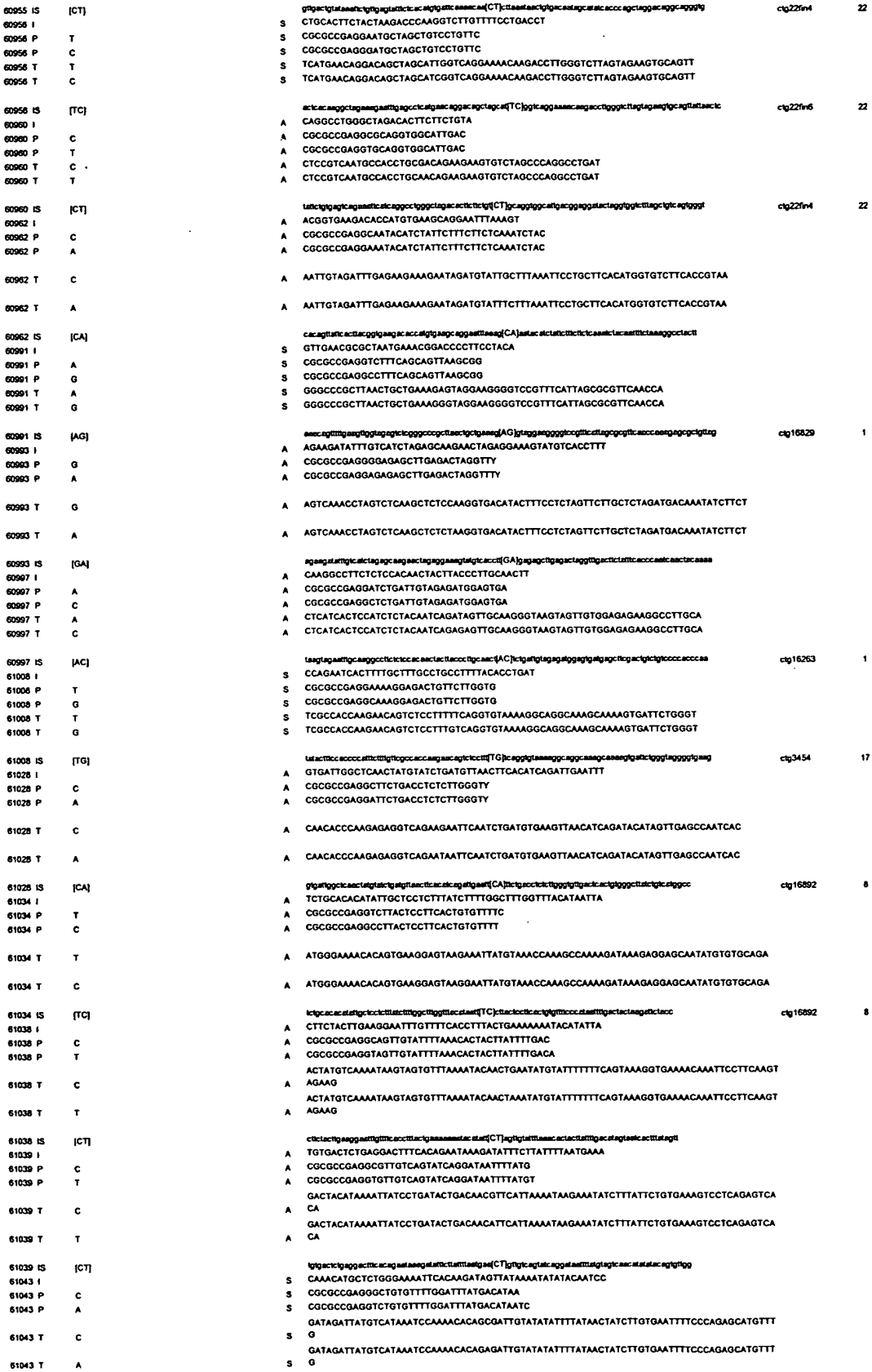

60955 IS [CT] gtgactgtataaattctgttgagtatttctcacatgtgattcaaaacaa[CT]cttaaataactgtgcaatagcatatcacccagctaggacaggcagggtg ctg22fin4 22
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60956 P T S CGCGCCGAGGAATGCTAGCTGTCCTGTTC
60956 P C S CGCGCCGAGGGATGCTAGCTGTCCTGTTC
60956 T T S TCATGAACAGGACAGCTAGCATTGGTCAGGAAAACAAGACCTTGGGTCTTAGTAGAAGTGCAGTT
60956 T C S TCATGAACAGGACAGCTAGCATCGGTCAGGAAAACAAGACCTTGGGTCTTAGTAGAAGTGCAGTT
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60960 P C A CGCGCCGAGGCGCAGGTGGCATTGAC
60960 P T A CGCGCCGAGGTGCAGGTGGCATTGAC
60960 T C A CTCCGTCAATGCCACCTGCGACAGAAGAAGTGTCTAGCCCAGGCCTGAT
60960 T T A CTCCGTCAATGCCACCTGCAACAGAAGAAGTGTCTAGCCCAGGCCTGAT
60960 IS [CT] tattctgtgagtcagaaattcatcaggcctgggctagacactcttctgt[CT]gcaggtggcattgacggaggatactaggtggtcttagctgtcagtgggt ctg22fin4 22
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60962 P C A CGCGCCGAGGCAATACATCTATTCTTTCTTCTCAAATCTAC
60962 P A A CGCGCCGAGGAAATACATCTATTCTTTCTTCTCAAATCTAC
60962 T C A AATTGTAGATTTGAGAAGAAAGAATAGATGTATTGCTTTAAATTCCTGCTTCACATGGTGTCTTCACCGTAA
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60991 P G S CGCGCCGAGGCCTTTCAGCAGTTAAGCGG
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60991 T G S GGGCCCGCTTAACTGCTGAAAGGGTAGGAAGGGGTCCGTTTCATTAGCGCGTTCAACCA
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60993 P G A CGCGCCGAGGGGAGAGCTTGAGACTAGGTTY
60993 P A A CGCGCCGAGGAGAGAGCTTGAGACTAGGTTTY
60993 T G A AGTCAAACCTAGTCTCAAGCTCTCCAAGGTGACATACTTTCCTCTAGTTCTTGCTCTAGATGACAAATATCTTCT
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60997 P A A CGCGCCGAGGATCTGATTGTAGAGATGGAGTGA
60997 P C A CGCGCCGAGGCTCTGATTGTAGAGATGGAGTGA
60997 T A A CTCATCACTCCATCTCTACAATCAGATAGTTGCAAGGGTAAGTAGTTGTGGAGAGAAGGCCTTGCA
60997 T C A CTCATCACTCCATCTCTACAATCAGAGAGTTGCAAGGGTAAGTAGTTGTGGAGAGAAGGCCTTGCA
60997 IS [AC] taagtaaattgcaaggccttctctccacaactacttacccttgcaact[AC]tctgattgtagagatggagtgatgagcttcgcactgtctgtcccacccaa ctg16263 1
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61008 P T S CGCGCCGAGGAAAAGGAGACTGTTCTTGGTG
61008 P G S CGCGCCGAGGCAAAGGAGACTGTTCTTGGTG
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61028 P C A CGCGCCGAGGCTTCTGACCTCTCTTGGGTY
61028 P A A CGCGCCGAGGATTCTGACCTCTCTTGGGTY
61028 T C A CAACACCCAAGAGAGGTCAGAAGAATTCAATCTGATGTGAAGTTAACATCAGATACATAGTTGAGCCAATCAC
61028 T A A CAACACCCAAGAGAGGTCAGAATAATTCAATCTGATGTGAAGTTAACATCAGATACATAGTTGAGCCAATCAC
61028 IS [CA] gtgattggctcaactatgtatctgatgttaacttcacatcagattgaatt[CA]ttctgaccttctttgggtgttgcactcatgtgggcttatctgtcatggcc ctg16892 8
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61034 P T A CGCGCCGAGGTCTTACTCCTTCACTGTGTTTTC
61034 P C A CGCGCCGAGGCCTTACTCCTTCACTGTGTTTT
61034 T T A ATGGGAAAACACAGTGAAGGAGTAAGAAATTATGTAAACCAAAGCCAAAAGATAAAGAGGAGCAATATGTGTGCAGA
61034 T C A ATGGGAAAACACAGTGAAGGAGTAAGGAATTATGTAAACCAAAGCCAAAAGATAAAGAGGAGCAATATGTGTGCAGA
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61038 P C A CGCGCCGAGGCAGTTGTATTTTAAACACTACTTATTTTGAC
61038 P T A CGCGCCGAGGTAGTTGTATTTTAAACACTACTTATTTTGACA
61038 T C A ACTATGTCAAAATAAGTAGTGTTTAAAATACAACTGAATATGTATTTTTTTCAGTAAAGGTGAAAACAAATTCCTTCAAGT AGAAG
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61039 I A TGTGACTCTGAGGACTTTCACAGAATAAAGATATTTCTTATTTTAATGAAA
61039 P C A CGCGCCGAGGCGTTGTCAGTATCAGGATAATTTTATG
61039 P T A CGCGCCGAGGTGTTGTCAGTATCAGGATAATTTTATGT
61039 T C A GACTACATAAAATTATCCTGATACTGACAACGTTCATTAAAATAAGAAATATCTTTATTCTGTGAAAGTCCTCAGAGTCA CA
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61043 P C S CGCGCCGAGGGCTGTGTTTTGGATTTATGACATAA
61043 P A S CGCGCCGAGGTCTGTGTTTTGGATTTATGACATAATC
61043 T C S GATAGATTATGTCATAAATCCAAAACACAGCGATTGTATATATTTTATAACTATCTTGTGAATTTTCCCAGAGCATGTTT G
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FIGURE 129D

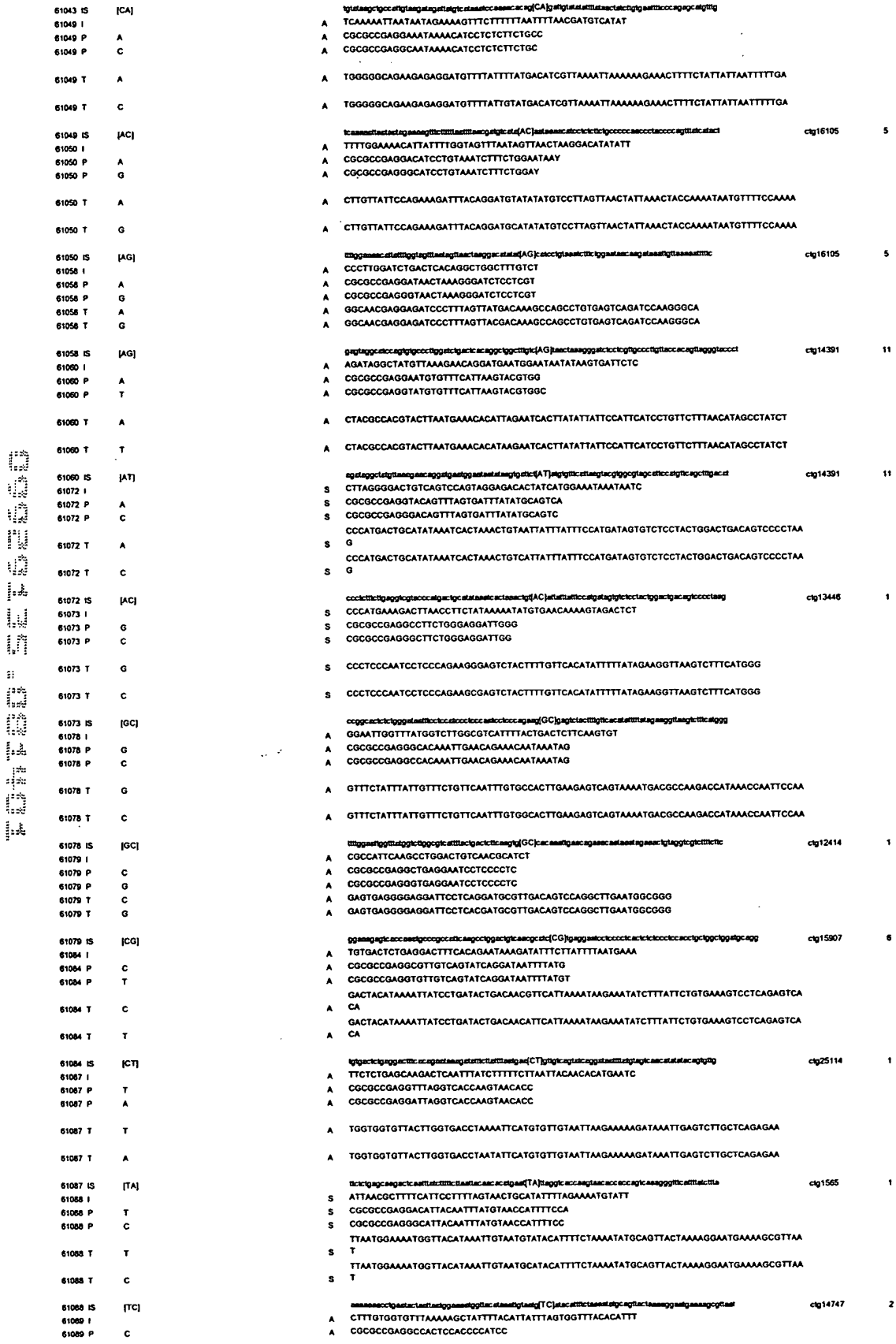

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61049 T A A TGGGGGCAGAAGAGAGGATGTTTTATTTTATGACATCGTTAAAATTAAAAAAGAAACTTTTCTATTATTAATTTTTGA
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61050 T A A CTTGTTATTCCAGAAAGATTTACAGGATGTATATATGTCCTTAGTTAACTATTAAACTACCAAAATAATGTTTTCCAAAA
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61058 P G A CGCGCCGAGGGTAACTAAAGGGATCTCCTCGT
61058 T A A GGCAACGAGGAGATCCCTTTAGTTATGACAAAGCCAGCCTGTGAGTCAGATCCAAGGGCA
61058 T G A GGCAACGAGGAGATCCCTTTAGTTACGACAAAGCCAGCCTGTGAGTCAGATCCAAGGGCA
61058 IS [AG] ctg14391 11
61060 I A AGATAGGCTATGTTAAAGAACAGGATGAATGGAATAATATAAGTGATTCTC
61060 P A A CGCGCCGAGGAATGTGTTTCATTAAGTACGTGG
61060 P T A CGCGCCGAGGTATGTGTTTCATTAAGTACGTGGC
61060 T A A CTACGCCACGTACTTAATGAAACACATTAGAATCACTTATATTATTCCATTCATCCTGTTCTTTAACATAGCCTATCT
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61072 I S CTTAGGGGACTGTCAGTCCAGTAGGAGACACTATCATGGAAATAAATAATC
61072 P A S CGCGCCGAGGTACAGTTTAGTGATTTATATGCAGTCA
61072 P C S CGCGCCGAGGGACAGTTTAGTGATTTATATGCAGTC
61072 T A S CCCATGACTGCATATAAATCACTAAACTGTAATTATTTATTTCCATGATAGTGTCTCCTACTGGACTGACAGTCCCCTAA G
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61073 P C S CGCGCCGAGGGCTTCTGGGAGGATTGG
61073 T G S CCCTCCCAATCCTCCCAGAAGGGAGTCTACTTTTGTTCACATATTTTTATAGAAGGTTAAGTCTTTCATGGG
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61073 IS [GC]
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61078 P G A CGCGCCGAGGGCACAAATTGAACAGAAACAATAAATAG
61078 P C A CGCGCCGAGGCCACAAATTGAACAGAAACAATAAATAG
61078 T G A GTTTCTATTTATTGTTTCTGTTCAATTTGTGCCACTTGAAGAGTCAGTAAAATGACGCCAAGACCATAAACCAATTCCAA
61078 T C A GTTTCTATTTATTGTTTCTGTTCAATTTGTGGCACTTGAAGAGTCAGTAAAATGACGCCAAGACCATAAACCAATTCCAA
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61079 IS [CG] ctg15907 6
61084 I A TGTGACTCTGAGGACTTTCACAGAATAAAGATATTTCTTATTTTAATGAAA
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61084 T C A GACTACATAAAATTATCCTGATACTGACAACGTTCATTAAAATAAGAAATATCTTTATTCTGTGAAAGTCCTCAGAGTCA CA
61084 T T A GACTACATAAAATTATCCTGATACTGACAACATTCATTAAAATAAGAAATATCTTTATTCTGTGAAAGTCCTCAGAGTCA CA
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61087 I A TTCTCTGAGCAAGACTCAATTTATCTTTTTCTTAATTACAACACATGAATC
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FIGURE 129D

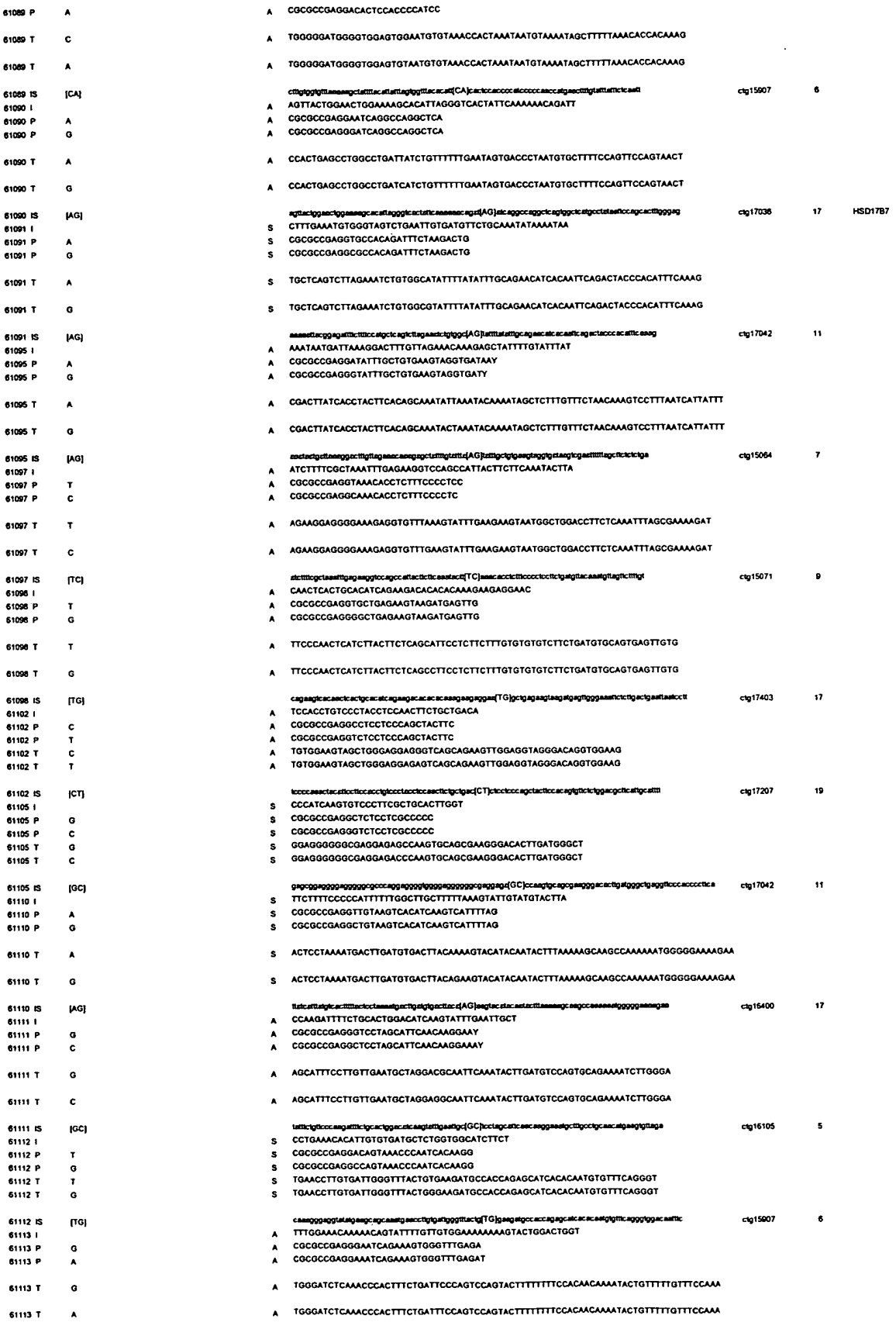


FIGURE 129D

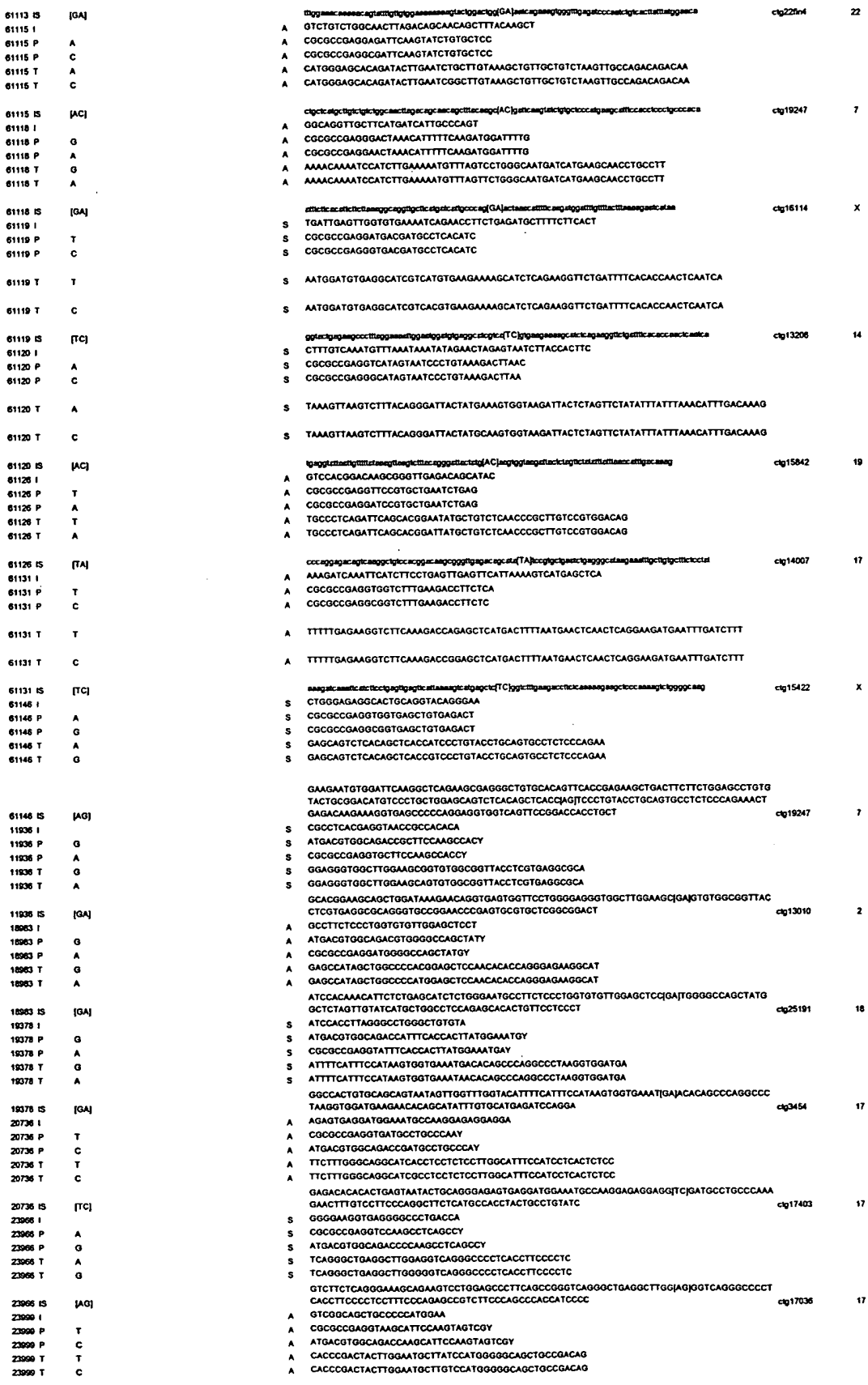


FIGURE 129D

				CTTAAAGGTGGATGTCGTCCTGGCCGAATCTGCTCTCCTGTCGGCAGCTGCCCCCATGGA[TC]AAGCATTCCAAGTA		
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25754	P	A	S	CGCGCCGAGGTGAACCACACAGCCCY		
25754	P	T	S	ATGACGTGGCAGACAGAACCACACAGCCCY		
25754	T	A	S	TTGGGGGCTGTGTGGTTCAACCCTGCCTATCTACCACCGGCCTCAC		
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25754	IS	[AT]		CACCGGCCTCACGGGAGGCCCTCCTGCTGCCTGACAACCCAGCTG	ctg832	11
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26569	P	G	A	ATGACGTGGCAGACGAGACGGCTGCTGGY		
26569	P	A	A	CGCGCCGAGGAAGACGGCTGCTGGY		
26569	T	G	A	TGCACCAGCAGCCGTCTCAGCAGTAGCTACATCAGCCTGATGGATAGAGACTTCATGAC		
26569	T	A	A	TGCACCAGCAGCCGTCTTAGCAGTAGCTACATCAGCCTGATGGATAGAGACTTCATGAC		
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26569	IS	[GA]		CAAGTAGGGAGATAAAAGCCAAAGGGAGGCAGGAGGCAATAAAGC	ctg832	11
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26688	P	G	S	ATGACGTGGCAGACCGGCTTTTGGGCACY		
26688	P	A	S	CGCGCCGAGGTGGCTTTTGGGCACY		
26688	T	G	S	GGCCGTGCCCAAAAGCCGCTGGCCAAGTCCCCCAAGCGACTGTC		
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26835	P	G	A	ATGACGTGGCAGACGCTCCATGGATTTTCACAY		
26835	P	T	A	CGCGCCGAGGTCTCCATGGATTTTCACACY		
26835	T	G	A	GTCTGTGTGAAAATCCATGGAGCTGCTGAAGCAGAGTTGGAGGAATAGTGTTATCCTCAAAGTCC		
26835	T	T	A	GTCTGTGTGAAAATCCATGGAGATGCTGAAGCAGAGTTGGAGGAATAGTGTTATCCTCAAAGTCC		
				CAGGGGGCCCTGACATGAGGACTTTGAGGATAACACTATTCCTCCAACTCTGCTTCAGCA[GT]CTCCATGGATTTTCA		
26835	IS	[GT]		CACAGACACTTTAGGAAAGAAACTAAGTTTGGGGGGACTTGACCT	ctg22fin3	22
26867	I		A	CTCCACACCCTCCCATGGCTTCCTTTTGTTA		
26867	P	T	A	CGCGCCGAGGTTTGAAACCAAATCCATATCCY		
26867	P	C	A	ATGACGTGGCAGACCTTGAAACCAAATCCATATCCY		
26867	T	T	A	AGAGGGATATGGATTTGGTTTCAAAAACAAAAGGAAGCCATGGGAGGGTGTGGAGCC		
26867	T	C	A	AGAGGGATATGGATTTGGTTTCAAGAACAAAAGGAAGCCATGGGAGGGTGTGGAGCC		
				CCCATCAACAGAAAGAGGGAGCAAGCTAGGCTCCACACCCTCCCATGGCTTCCTTTTGTT[TC]TTGAAACCAAATCCA		
26867	IS	[TC]		TATCCCTCTCCTACAGAATCTGCTGGCCTCTCCAGCCCCATCTTG	ctg17140	16
27687	I		S	GTATCTGCCCATTGCAGTGCACTGATATTTTAAGTT		
27687	P	T	S	CGCGCCGAGGAATATCTCTGCTTCTTAGAGTAAAAY		
27687	P	G	S	ATGACGTGGCAGACCATATCTCTGCTTCTTAGAGTAAAY		
27687	T	T	S	AAATTTTTACTCTAAGAAGCAGAGATATTACTTAAAATATCAGTGCACTGCAATGGGCAGATACTA		
27687	T	G	S	AAATTTTTACTCTAAGAAGCAGAGATATGACTTAAAATATCAGTGCACTGCAATGGGCAGATACTA		
				GTTATAGTGACTATAATAACCATCACATTTTAAAATTTTTACTCTAAGAAGCAGAGATAT[TG]ACTTAAAATATCAGTGCA		
27687	IS	[TG]		CTGCAATGGGCAGATACTATGAAATAACTCAGTGTTGAGAAT	ctg17140	16
27730	I		A	CTCGGGCATAAGTGGCTCTACGGGTACCT		
27730	P	G	A	ATGACGTGGCAGACGTGCACAGAGCACACY		
27730	P	A	A	CGCGCCGAGGATGCACAGAGCACACAY		
27730	T	G	A	TCACTGTGTGCTCTGTGCACGGTACCCGTAGAGCCACTTATGCCCGAGGA		
27730	T	A	A	TCACTGTGTGCTCTGTGCATGGTACCCGTAGAGCCACTTATGCCCGAGGA		
				CCTGAGGGTTCAGGGTGCACAGAACGTCTGTCCTCGGGCATAAGTGGCTCTACGGGTACC[GA]TGCACAGAGCACAC		
27730	IS	[GA]		AGTGACTCAGGAAGGGGGAGGCCATCAGGCCAAACTGCAGAACCAA	MULTIPLE	MULTIPLE
27739	I		A	TCTTTTCAGTACATAGGGTGGTAATAAAGTGATTTTCGTTGGA		
27739	P	T	A	CGCGCCGAGGTGAAAAGTTGGGGCTTAGY		
27739	P	C	A	ATGACGTGGCAGACCGAAAAGTTGGGGCTTAY		
27739	T	T	A	TGCACTAAGCCCCAACTTTTCACCAACGAAAATCACTTTATTACCACCCTATGTACTGAAAAGACT		
27739	T	C	A	TGCACTAAGCCCCAACTTTTCGCCAACGAAAATCACTTTATTACCACCCTATGTACTGAAAAGACT		
				ATACAAGTTGATAAACAGTCTTTTCAGTACATAGGGTGGTAATAAAGTGATTTTCGTTGG[TC]GAAAAGTTGGGGCTTA		
27739	IS	[TC]		GTGCATGGAACAGTGCCTTAGGCATAGCAATCTAGCAAATGTTG	ctg15907	6
27994	I		A	GTTAACATAGATTTCTGTGGTCAAACAAATTTGGGAAACTCTAAGC		
27994	P	T	A	CGCGCCGAGGTTAAACAAATATAAACAGTTTTTTTAAATTGY		
27994	P	G	A	ATGACGTGGCAGACGTAAACAAATATAAACAGTTTTTTTAAATTGY		
				TCTGCAATTTAAAAAAACTGTTTATATTTGTTTAACTTAGAGTTTCCCAAATTTGTTTGACCACAGAAATCTATGTTAACT		
27994	T	T	A	A		
				TCTGCAATTTAAAAAAACTGTTTATATTTGTTTACCTTAGAGTTTCCCAAATTTGTTTGACCACAGAAATCTATGTTAACT		
27994	T	G	A	A		
				ATTAAGAAAAGTGTAGTTAACATAGATTTCTGTGGTCAAACAAATTTGGGAAACTCTAAG[TG]TAAACAAATATAAACAG		
27994	IS	[TG]		TTTTTTTAAATTGCAGAACTTCTCAGCCTTTAATATTCTAATG	ctg2712	15
28279	I		A	CCAGTGTGCGTGTGAGGAAACTGAGGCTC		
28279	P	T	A	CGCGCCGAGGTGGAGCGGCAAGGY		
28279	P	G	A	ATGACGTGGCAGACGGGAGCGGCAAGGY		
28279	T	T	A	ACTGCCTTGCCGCTCCAAGCCTCAGTTTCCTCACACGCACACTGGCT		
28279	T	G	A	ACTGCCTTGCCGCTCCCAGCCTCAGTTTCCTCACACGCACACTGGCT		
				CCAGCAACAGAGGAGAACGGATTTCATTGTAGCCAGTGTGCGTGTGAGGAAACTGAGGCT[TG]GGAGCGGCAAGGC		
28279	IS	[TG]		AGTGGTGGCACTGCTGGGGCTCAGGACCGGGCCTGGGTGCTGCCTCC	ctg19085	10
35944	I		S	TGAAGGTAGAAGGGTGAGAGCCAGTTAAAGCCCT		
35944	P	T	S	CGCGCCGAGGACTGAGATCAAATGACTTAACCY		
35944	P	C	S	ATGACGTGGCAGACGCTGAGATCAAATGACTTAACY		
35944	T	T	S	TCTTGGTTAAGTCATTTGATCTCAGTGGGCTTTAACTGGCTCTCACCCTTCTACCTTCATT		
35944	T	C	S	TCTTGGTTAAGTCATTTGATCTCAGCGGGCTTTAACTGGCTCTCACCCTTCTACCTTCATT		
				TTTACTGAGCATGATGTGCTGTGCAAGTTGTGTGATCTTGGTTAAGTCATTTGATCTCAG[TC]GGGCTTTAACTGGCTC		
35944	IS	[TC]		TCACCCTTCTACCTTCATTGCTTAACTGCACCCAGCACTAGAAA	ctg53	14
36095	I		S	GGGATGGTGAGTAAATGGAGAGGTACAGAGACCTTATCAGC		
36095	P	T	S	CGCGCCGAGGAGAGTGTAGTGGTTAGAAGCY		
36095	P	A	S	ATGACGTGGCAGACTGAGTGTAGTGGTTAGAAGCY		
36095	T	T	S	TCATGCTTCTAACCACTACACTCTCTGATAAGGTCTCTGTACCTCTCCATTTACTCACCATCCCAT		
36095	T	A	S	TCATGCTTCTAACCACTACACTCACTGATAAGGTCTCTGTACCTCTCCATTTACTCACCATCCCAT		
				AACTACTGCATGGTACTAGACTTTATGGCTCCAAAAATCATGCTTCTAACCACTACACTC[TA]CTGATAAGGTCTCTGTA		
36095	IS	[TA]		CCTCTCCATTTACTCACCATCCCATGAGTCTTGACTTGACTTG	ctg12325	11
36225	I		S	CCTGGAGAGCTTCAATAGGCAGATTTTAACCTCAGTTCTA		
36225	P	A	S	CGCGCCGAGGTCTAAATCATCCTTACTTTAATATTGGY		
36225	P	G	S	ATGACGTGGCAGACCCTAAATCATCCTTACTTTAATATTGGY		
36225	T	A	S	CCTGCCAATATTAAAGTAAGGATGATTTAGAAGAACTGAGGTTAAAATCTGCCTATTGAAGCTCTCCAGGCT		
36225	T	G	S	CCTGCCAATATTAAAGTAAGGATGATTTAGGAGAACTGAGGTTAAAATCTGCCTATTGAAGCTCTCCAGGCT		
				TTTTATTAGCTCCCTGATGAATTCTCTCTTCCTGCCAATATTAAAGTAAGGATGATTTAG[AG]AGAACTGAGGTTAAAAT		
36225	IS	[AG]		CTGCCTATTGAAGCTCTCCAGGCTAGATACCCTGACATTTCTC	ctg13980	1
36429	I		S	TGACATGTAGGATACGTAAAACAGGAATTGATACATACAATAGGAATGCTTAGTCAAA		
36429	P	A	S	CGCGCCGAGGTGTTTCATTTATTATCCAGCAAGY		

FIGURE 129D

36429 P	G	S	ATGACGTGGCAGACCGTTTCATTTATTATCCAGCAAY				
36429 T	A	S	AGTGCTTGCTGGATAATAAATGAAACATTGACTAAGCATTCCTATTGTATGTATCAATTCCTGTTTTACGTATCCTACAT GTCAAA				
36429 T	G	S	AGTGCTTGCTGGATAATAAATGAAACGTTGACTAAGCATTCCTATTGTATGTATCAATTCCTGTTTTACGTATCCTACAT GTCAAA				
36429 IS	[AG]		TCCCTGACCAGTAGCTGGCCTGACATAGGTGCTGAGTGCTTGCTGGATAATAAATGAAAC[AG]TTGACTAAGCATTCC TATTGTATGTATCAATTCCTGTTTTACGTATCCTACATGTCAAAA	ctg14391	11		
36637 I		A	CCTCCTGCTCTAGCAGGAGGAAGAAGCCTCC				
36637 P	G	A	ATGACGTGGCAGACGGGGAGAAAAGGCCAY				
36637 P	T	A	CGCGCCGAGGTGGGAGAAAAGGCCAAY				
36637 T	G	A	TTCCTTGGCCTTTTCTCCCCGAGGCTTCTTCCTCCTGCTAGAGCAGGAGGAG				
36637 T	T	A	TTCCTTGGCCTTTTCTCCCAGAGGCTTCTTCCTCCTGCTAGAGCAGGAGGAG				
36637 IS	[GT]		CTTCCCTGAGCTGCCCTCGATGGCCTCCCTCCTCCTGCTCTAGCAGGAGGAAGAAGCCTC[GT]GGGAGAAAAGGCCA AGGAAGGGACTGGGTTCTGGGAGTGGAGGAGGCAGGTGAGGAGCAG	ctg15907	6		
38625 I		S	GGGAGGGAAACAGGGAGGGGAATGGAC				
38625 P	C	S	ATGACGTGGCAGACGAGAGAGAGGGAGGGAY				
38625 P	A	S	CGCGCCGAGGTAGAGAGAGGGAGGGAGY				
38625 T	C	S	CTCTCTCCCTCCCTCTCTCTCTCCATTCCCCTCCCTGTTTCCCTCCCTC				
38625 T	A	S	CTCTCTCCCTCCCTCTCTCTATCCATTCCCCTCCCTGTTTCCCTCCCTC				
38625 IS	[CA]		TTCTTTCTCCCCCCCGTCTCTCTCCCTCCTTTCTTTTTCCCTCTCTCCCTCCCTCTCTCT[CA]TCCATTCCCCTCCCTGT TTCCCTCCCTCCCTCCTTCTCTCCTTCTCTTTTCCCCTCTCTC	ctg15140	12		
39028 I		A	TGGCTAGGAAAAGAAAGTTATAGATTTGTCCAAAGGACAAA				
39028 P	C	A	ATGACGTGGCAGACCTGCTTCATAAATTCCTCAGAY				
39028 P	T	A	CGCGCCGAGGTTGCTTCATAAATTCCTCAGAY				
39028 T	C	A	TGTTTCTGAGGAATTTATGAAGCAGTTGTCCTTTGGACAAATCTATAACTTTCTTTTCCTAGCCAAT				
39028 T	T	A	TGTTTCTGAGGAATTTATGAAGCAATTGTCCTTTGGACAAATCTATAACTTTCTTTTCCTAGCCAAT				
39028 IS	[CT]		CCTAGTTCTTTGAGTATAATTGGCTAGGAAAAGAAAGTTATAGATTTGTCCAAAGGACAA[CT]TGCTTCATAAATTCCTC AGAAACAGGCATACAGCCTAAGCAAGCCATGATAGCTATTAAA	ctg15330	9		
39317 I		A	ACCGCGCCAGCGTCCAGGTGT				
39317 P	C	A	ATGACGTGGCAGACCGGGGACAGCGGY				
39317 P	A	A	CGCGCCGAGGAGGGGACAGCGGY				
39317 T	C	A	GCTGCCGCTGTCCCCGCACCTGGACGCTGGCGCGGTGG				
39317 T	A	A	GCTGCCGCTGTCCCCTCACCTGGACGCTGGCGCGGTGG				
39317 IS	[CA]		CCGAGTCGCCGCGGCGAGCGATCGAGGCTGGGGCGCGGCCACCGCGCCAGCGTCCAGGTG[CA]GGGGACAGCGG CAGCCCGGGCGTCGCGGGCTGGTCCGCGCGCATCACGCCGCGGCCGGGG	ctg30	7	FLJ10116	
40473 I		S	GGAGAAGTGGAATGAAGCCCCTTCGTTCA				
40473 P	G	S	ATGACGTGGCAGACCTAGAAGTGTATTGGATGATAACTY				
40473 P	A	S	CGCGCCGAGGTTAGAAGTGTATTGGATGATAACTY				
40473 T	G	S	GTAAAGTTATCATCCAATACACTTCTAGGAACGAAGGGGCTTCATTCCACTTCTCCTA				
40473 T	A	S	GTAAAGTTATCATCCAATACACTTCTAAGAACGAAGGGGCTTCATTCCACTTCTCCTA				
40473 IS	[GA]		TGGTCTACGGAGTCATTAGGCCGGGGCAGCCAGGTAAAGTTATCATCCAATACACTTCTA[GA]GAACGAAGGGGCTT CATTCCACTTCTCCTAATAAGCAAGCCAAAAAACATATAAATCACA	ctg15478	1		
43221 I		A	GCTGAAGAAGCCCCATTTGTCCTGAGGGCT				
43221 P	A	A	CGCGCCGAGGACCTGTGGCTTCCAGY				
43221 P	G	A	ATGACGTGGCAGACGCCTGTGGCTTCCAY				
43221 T	A	A	GGTTCTGGAAGCCACAGGTGCCCTCAGGACAAATGGGGCTTCTTCAGCAC				
43221 T	G	A	GGTTCTGGAAGCCACAGGCGCCCTCAGGACAAATGGGGCTTCTTCAGCAC				
43221 IS	[AG]		TCCTTGCTTAGCTCAGCACTCACTACCCTGTGCTGAAGAAGCCCCATTTGTCCTGAGGGC[AG]CCTGTGGCTTCCAGA ACCAGCTGTAGCAATCACAGAGCTAAGGAAGGAGCTGTCCAGCTG	ctg15907	6		
43379 I		S	CCCGGCCACCCCCGGAACGA				
43379 P	G	S	ATGACGTGGCAGACCGGCCTGCCCTGY				
43379 P	A	S	CGCGCCGAGGTGGCCTGCCCTGY				
43379 T	G	S	GAGACAGGGCAGGCCGCGTTCCGGGGGTGGCCGGGTC				
43379 T	A	S	GAGACAGGGCAGGCCACGTTCCGGGGGTGGCCGGGTC				
43379 IS	[GA]		GTGGCCAGCGCCACTGCTGTCTCCAAAGTGCTCCAGGCCTGTTGTGAGACAGGGCAGGCC[GA]CGTTCCGGGGGTG GCCGGGTCCCGGGCAGGGAGTGGAGACATGGGGCTGCAGAGATGGCA	ctg12823	16		
43891 I		S	CTCTCTCTGGCAATAATAACACCCTACACACCTGCTT				
43891 P	G	S	CGCGCCGAGGCTCAGTGCTGACTCACTY				
43891 P	C	S	ATGACGTGGCAGACGTCAGTGCTGACTCACTY				
43891 T	G	S	AAGGAGTGAGTCAGCACTGAGAGCAGGTGTGTAGGGTGTTATTATTGCCAGAGAGAGCT				
43891 T	C	S	AAGGAGTGAGTCAGCACTGACAGCAGGTGTGTAGGGTGTTATTATTGCCAGAGAGAGCT				
43891 IS	[GC]		TTTTGGTAGAAAAGTGAATGAAGTTTGAGTGTGAGGAGTAAAGGAGTGAGTCAGCACTGA[GC]AGCAGGTGTGTAGG GTGTTATTATTGCCAGAGAGAGCTCAATAGGAAGAAGGGATTTGGA	ctg15907	6		
43986 I		S	TCATTTTTGTTGTTAGTGGTGTTATTTGAACATTAAGACGCAGT				
43986 P	C	S	ATGACGTGGCAGACGCATGAAGTCTTTTGGGGY				
43986 P	T	S	CGCGCCGAGGACATGAAGTCTTTTGGGGY				
43986 T	C	S	TGTTCCCCAAAAGACTTCATGCCTGCGTCTTAATGTTCAAATAACACCACTAACAACAAAAATGAAA				
43986 T	T	S	TGTTCCCCAAAAGACTTCATGTCTGCGTCTTAATGTTCAAATAACACCACTAACAACAAAAATGAAA				
43986 IS	[CT]		GGCATCAAAAACTGTAACCTGAAAATAAAAGCTTTAACCTGTTCCCCAAAAGACTTCATG[CT]CTGCGTCTTAATGTTCA AATAACACCACTAACAACAAAAATGAAATAAGAAAAGTGCTTG	ctg22fin4	22		
44313 I		S	ACCTCTTTTTCCCGGTGTCGGTAAACATGGCT				
44313 P	T	S	CGCGCCGAGGAGCCTTGCTTCATTTTTGAY				
44313 P	C	S	ATGACGTGGCAGACGGGCCTTGCTTCATTTTTGY				
44313 T	T	S	TCCATCAAAAATGAAGCAAGGCTGCCATGTTTACCGACACCGGGAAAAAGAGGTAG				
44313 T	C	S	TCCATCAAAAATGAAGCAAGGCCGCCATGTTTACCGACACCGGGAAAAAGAGGTAG				
44313 IS	[TC]		TCTTCAGAGAAGGTCCGGTTGAAATTGGTCTCCCATGCTCCATCAAAAATGAAGCAAGGC[TC]GCCATGTTTACCGAC ACCGGGAAAAAGAGGTAGCTGTCCTGATCAGCAGTCTAATCACTG	ctg22fin4	22		
44396 I		S	GCGACCTGAGTGTTTTTCAAGTGAATAATTTTTTAAAGCCTGTTAGCTT				
44396 P	T	S	CGCGCCGAGGATCAGTGAGGGTCCCTY				
44396 P	C	S	ATGACGTGGCAGACGTCAGTGAGGGTCCCY				
44396 T	T	S	TGTCAGGGACCCTCACTGATAGCTAACAGGCTTTAAAAAATTATTCACTTGAAAAACACTCAGGTCGCTT				
44396 T	C	S	TGTCAGGGACCCTCACTGACAGCTAACAGGCTTTAAAAAATTATTCACTTGAAAAACACTCAGGTCGCTT				
44396 IS	[TC]		CCATTCTCTTACCAATAAAGCTTTCAGATGCTATTTTAATCTGTCAGGGACCCTCACTGA[TC]AGCTAACAGGCTTTAAA AAATTATTCACTTGAAAAACACTCAGGTCGCTTGCAATTACTT	ctg22fin4	22		
44614 I		S	TGAACAGTCAGCCTCCCTTTGCGCCAT				
44614 P	T	S	CGCGCCGAGGATGGACCCAAATCTGTAATCY				
44614 P	C	S	ATGACGTGGCAGACGTGGACCCAAATCTGTAATY				
44614 T	T	S	AGGGGATTACAGATTTGGGTCCATTGGCGCAAAGGGAGGCTGACTGTTCAGA				
44614 T	C	S	AGGGGATTACAGATTTGGGTCCACTGGCGCAAAGGGAGGCTGACTGTTCAGA				
44614 IS	[TC]		TTATTATGTTGAAAGGAAAAGGTCTGGAGCTCGAGGGAGGGGATTACAGATTTGGGTCCA[TC]TGGCGCAAAGGGAG GCTGACTGTTCAGATTAATAATTATTAACGGCCACCGTATGGAAAG				
44646 I		A	CTTCCTGGCCAGCCCTGCTGGAAACT				
44646 P	C	A	ATGACGTGGCAGACCGGGAGCTGCTGCY				

FIGURE 129D

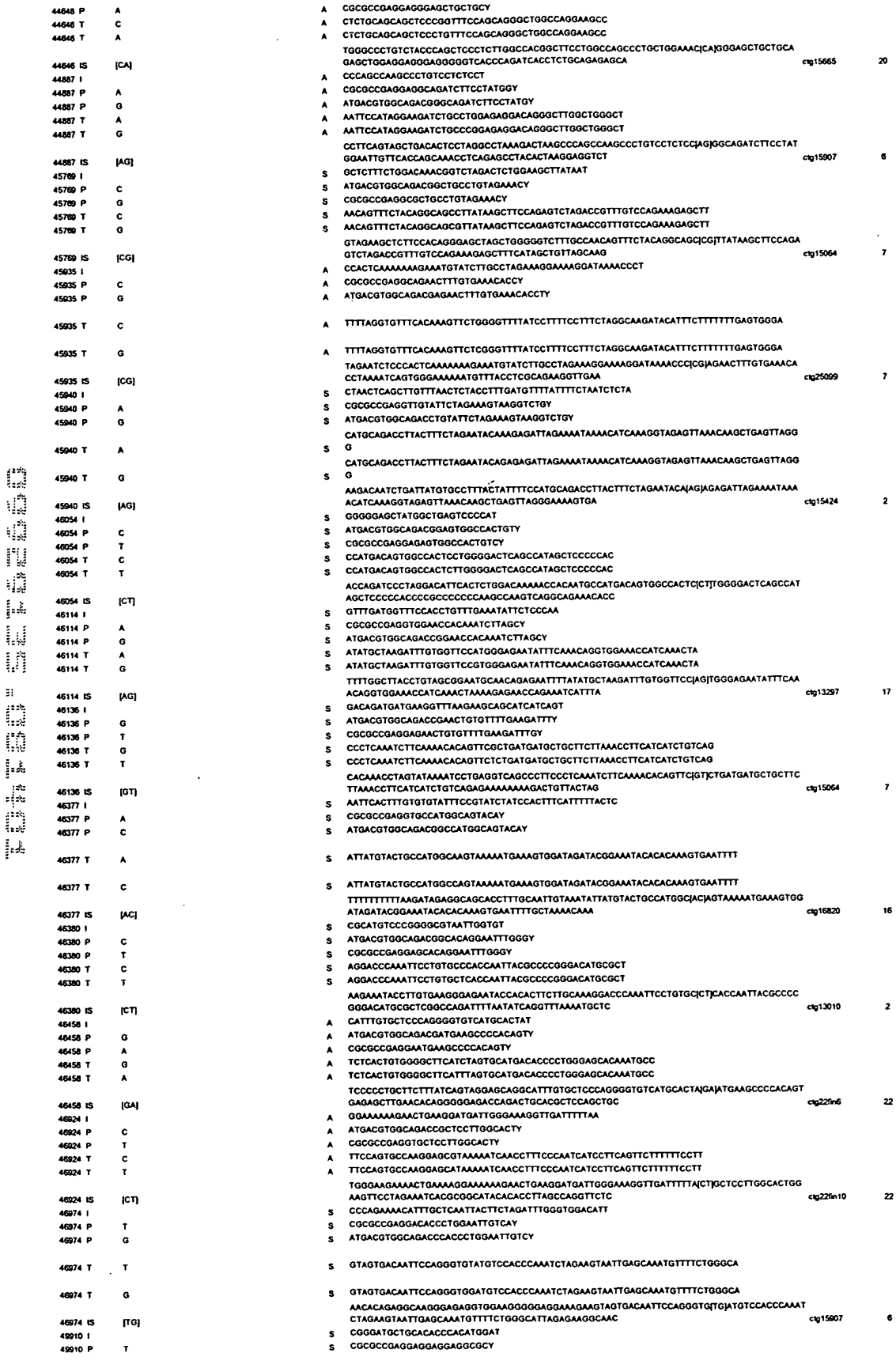

44646 P A A CGCGCCGAGGAGGGAGCTGCTGCY
44646 T C A CTCTGCAGCAGCTCCCGGTTTCCAGCAGGGCTGGCCAGGAAGCC
44646 T A A CTCTGCAGCAGCTCCCTGTTTCCAGCAGGGCTGGCCAGGAAGCC
44646 IS [CA] TGGGCCCTGTCTACCCAGCTCCCTCTTGGCCACGGCTTCCTGGCCAGCCCTGCTGGAAAC[CA]GGGAGCTGCTGCA GAGCTGGAGGAGGGAGGGGGTCACCCAGATCACCTCTGCAGAGAGCA ctg15665 20
44887 I A CCCAGCCAAGCCCTGTCCTCTCCT
44887 P A A CGCGCCGAGGAGGCAGATCTTCCTATGGY
44887 P G A ATGACGTGGCAGACGGGCAGATCTTCCTATGY
44887 T A A AATTCCATAGGAAGATCTGCCTGGAGAGGACAGGGCTTGGCTGGGCT
44887 T G A AATTCCATAGGAAGATCTGCCCGGAGAGGACAGGGCTTGGCTGGGCT
44887 IS [AG] CCTTCAGTAGCTGACACTCCTAGGCCTAAAGACTAAGCCCAGCCAAGCCCTGTCCTCTCC[AG]GGCAGATCTTCCTAT GGAATTGTTCACCAGCAAACCTCAGAGCCTACACTAAGGAGGTCT ctg15907 6
45769 I S GCTCTTTCTGGACAAACGGTCTAGACTCTGGAAGCTTATAAT
45769 P C S ATGACGTGGCAGACGGCTGCCTGTAGAAACY
45769 P G S CGCGCCGAGGCGCTGCCTGTAGAAACY
45769 T C S AACAGTTTCTACAGGCAGCCTTATAAGCTTCCAGAGTCTAGACCGTTTGTCCAGAAAGAGCTT
45769 T G S AACAGTTTCTACAGGCAGCGTTATAAGCTTCCAGAGTCTAGACCGTTTGTCCAGAAAGAGCTT
45769 IS [CG] GTAGAAGCTCTTCCACAGGGAGCTAGCTGGGGGTCTTTGCCAACAGTTTCTACAGGCAGC[CG]TTATAAGCTTCCAGA GTCTAGACCGTTTGTCCAGAAAGAGCTTTCATAGCTGTTAGCAAG ctg15064 7
45935 I A CCACTCAAAAAAAGAAATGTATCTTGCCTAGAAAGGAAAAGGATAAAACCCT
45935 P C A CGCGCCGAGGCAGAACTTTGTGAAACACCY
45935 P G A ATGACGTGGCAGACGAGAACTTTGTGAAACACCTY
45935 T C A TTTTAGGTGTTTCACAAAGTTCTGGGGTTTTATCCTTTTCCTTTCTAGGCAAGATACATTTCTTTTTTTGAGTGGGA
45935 T G A TTTTAGGTGTTTCACAAAGTTCTCGGGTTTTATCCTTTTCCTTTCTAGGCAAGATACATTTCTTTTTTTGAGTGGGA
45935 IS [CG] TAGAATCTCCCACTCAAAAAAAGAAATGTATCTTGCCTAGAAAGGAAAAGGATAAAACCC[CG]AGAACTTTGTGAAACA CCTAAAATCAGTGGGAAAAAATGTTTACCTCGCAGAAGGTTGAA ctg25099 7
45940 I S CTAACTCAGCTTGTTTAACTCTACCTTTGATGTTTTATTTTCTAATCTCTA
45940 P A S CGCGCCGAGGTTGTATTCTAGAAAGTAAGGTCTGY
45940 P G S ATGACGTGGCAGACCTGTATTCTAGAAAGTAAGGTCTGY
45940 T A S G CATGCAGACCTTACTTTCTAGAATACAAAGAGATTAGAAAATAAAACATCAAAGGTAGAGTTAAACAAGCTGAGTTAGG
45940 T G S G CATGCAGACCTTACTTTCTAGAATACAGAGAGATTAGAAAATAAAACATCAAAGGTAGAGTTAAACAAGCTGAGTTAGG
45940 IS [AG] AAGACAATCTGATTATGTGCCTTTACTATTTTCCATGCAGACCTTACTTTCTAGAATAC[AG]AGAGATTAGAAAATAAA ACATCAAAGGTAGAGTTAAACAAGCTGAGTTAGGGAAAAGTGA ctg15424 2
46054 I S GGGGGAGCTATGGCTGAGTCCCCAT
46054 P C S ATGACGTGGCAGACGGAGTGGCCACTGTY
46054 P T S CGCGCCGAGGAGAGTGGCCACTGTCY
46054 T C S CCATGACAGTGGCCACTCCTGGGGACTCAGCCATAGCTCCCCCAC
46054 T T S CCATGACAGTGGCCACTCTTGGGGACTCAGCCATAGCTCCCCCAC
46054 IS [CT] ACCAGATCCCTAGGACATTCACTCTGGACAAAAACCACAATGCCATGACAGTGGCCACTC[CT]TGGGGACTCAGCCAT AGCTCCCCCACCCCGCCCCCCCCAAGCCAAGTCAGGCAGAAACACC
46114 I S GTTTGATGGTTTCCACCTGTTTGAAATATTCTCCCAA
46114 P A S CGCGCCGAGGTGGAACCACAAATCTTAGCY
46114 P G S ATGACGTGGCAGACCGGAACCACAAATCTTAGCY
46114 T A S ATATGCTAAGATTTGTGGTTCCATGGGAGAATATTTCAAACAGGTGGAAACCATCAAACTA
46114 T G S ATATGCTAAGATTTGTGGTTCCGTGGGAGAATATTTCAAACAGGTGGAAACCATCAAACTA
46114 IS [AG] TTTTGGCTTACCTGTAGCGGAATGCAACAGAGAATTTTATATGCTAAGATTTGTGGTTCC[AG]TGGGAGAATATTTCAA ACAGGTGGAAACCATCAAACTAAAAGAGAACCAGAAATCATTTA ctg13297 17
46136 I S GACAGATGATGAAGGTTTAAGAAGCAGCATCATCAGT
46136 P G S ATGACGTGGCAGACCGAACTGTGTTTTGAAGATTTY
46136 P T S CGCGCCGAGGAGAACTGTGTTTTGAAGATTTGY
46136 T G S CCCTCAAATCTTCAAAACACAGTTCGCTGATGATGCTGCTTCTTAAACCTTCATCATCTGTCAG
46136 T T S CCCTCAAATCTTCAAAACACAGTTCTCTGATGATGCTGCTTCTTAAACCTTCATCATCTGTCAG
46136 IS [GT] CACAAACCTAGTATAAAATCCTGAGGTCAGCCCTTCCCTCAAATCTTCAAAACACAGTTC[GT]CTGATGATGCTGCTTC TTAAACCTTCATCATCTGTCAGAGAAAAAAAAGACTGTTACTAG ctg15064 7
46377 I S AATTCACTTTGTGTGTATTTCCGTATCTATCCACTTTCATTTTTACTC
46377 P A S CGCGCCGAGGTGCCATGGCAGTACAY
46377 P C S ATGACGTGGCAGACGGCCATGGCAGTACAY
46377 T A S ATTATGTACTGCCATGGCAAGTAAAAATGAAAGTGGATAGATACGGAAATACACACAAAGTGAATTTT
46377 T C S ATTATGTACTGCCATGGCCAGTAAAAATGAAAGTGGATAGATACGGAAATACACACAAAGTGAATTTT
46377 IS [AC] TTTTTTTTTAAGATAGAGGCAGCACCTTTGCAATTGTAAATATTATGTACTGCCATGGC[AC]AGTAAAAATGAAAGTGG ATAGATACGGAAATACACACAAAGTGAATTTTGCTAAAACAAA ctg16820 16
46380 I S CGCATGTCCCGGGGCGTAATTGGTGT
46380 P C S ATGACGTGGCAGACGGCACAGGAATTTGGGY
46380 P T S CGCGCCGAGGAGCACAGGAATTTGGGY
46380 T C S AGGACCCAAATTCCTGTGCCCACCAATTACGCCCCGGGACATGCGCT
46380 T T S AGGACCCAAATTCCTGTGCTCACCAATTACGCCCCGGGACATGCGCT
46380 IS [CT] AAGAAATACCTTGTGAAGGGAGAATACCACACTTCTTGCAAAGGACCCAAATTCCTGTGC[CT]CACCAATTACGCCCC GGGACATGCGCTCGGCCAGATTTTAATATCAGGTTTAAAATGCTC ctg13010 2
46458 I A CATTTGTGCTCCCAGGGGTGTCATGCACTAT
46458 P G A ATGACGTGGCAGACGATGAAGCCCCACAGTY
46458 P A A CGCGCCGAGGAATGAAGCCCCACAGTY
46458 T G A TCTCACTGTGGGGCTTCATCTAGTGCATGACACCCCTGGGAGCACAAATGCC
46458 T A A TCTCACTGTGGGGCTTCATTTAGTGCATGACACCCCTGGGAGCACAAATGCC
46458 IS [GA] TCCCCCTGCTTCTTTATCAGTAGGAGCAGGCATTTGTGCTCCCAGGGGTGTCATGCACTA[GA]ATGAAGCCCCACAGT GAGAGCTTGAACACAGGGGGAGACCAGACTGCACGCTCCAGCTGC ctg22fin6 22
46924 I A GGAAAAAAGAACTGAAGGATGATTGGGAAAGGTTGATTTTTAA
46924 P C A ATGACGTGGCAGACCGCTCCTTGGCACTY
46924 P T A CGCGCCGAGGTGCTCCTTGGCACTY
46924 T C A TTCCAGTGCCAAGGAGCGTAAAAATCAACCTTTCCCAATCATCCTTCAGTTCTTTTTTCCTT
46924 T T A TTCCAGTGCCAAGGAGCATAAAAATCAACCTTTCCCAATCATCCTTCAGTTCTTTTTTCCTT
46924 IS [CT] TGGGAAGAAAACTGAAAAGGAAAAAAGAACTGAAGGATGATTGGGAAAGGTTGATTTTTA[CT]GCTCCTTGGCACTGG AAGTTCCTAGAAATCACGCGGCATACACACCTTAGCCAGGTTCTC ctg22fin10 22
46974 I S CCCAGAAAACATTTGCTCAATTACTTCTAGATTTGGGTGGACATT
46974 P T S CGCGCCGAGGACACCCTGGAATTGTCAY
46974 P G S ATGACGTGGCAGACCCACCCTGGAATTGTCY
46974 T T S GTAGTGACAATTCCAGGGTGTATGTCCACCCAAATCTAGAAGTAATTGAGCAAATGTTTTCTGGGCA
46974 T G S GTAGTGACAATTCCAGGGTGGATGTCCACCCAAATCTAGAAGTAATTGAGCAAATGTTTTCTGGGCA
46974 IS [TG] AACACAGAGGCAAGGGAGAGGTGGAAGGGGGAGGAAAGAAGTAGTGACAATTCCAGGGTG[TG]ATGTCCACCCAAAT CTAGAAGTAATTGAGCAAATGTTTTCTGGGCATTAGAGAAGGCAAC ctg15907 6
49910 I S CGGGATGCTGCACACCCACATGGAT
49910 P T S CGCGCCGAGGAGGAGGAGGCGCY

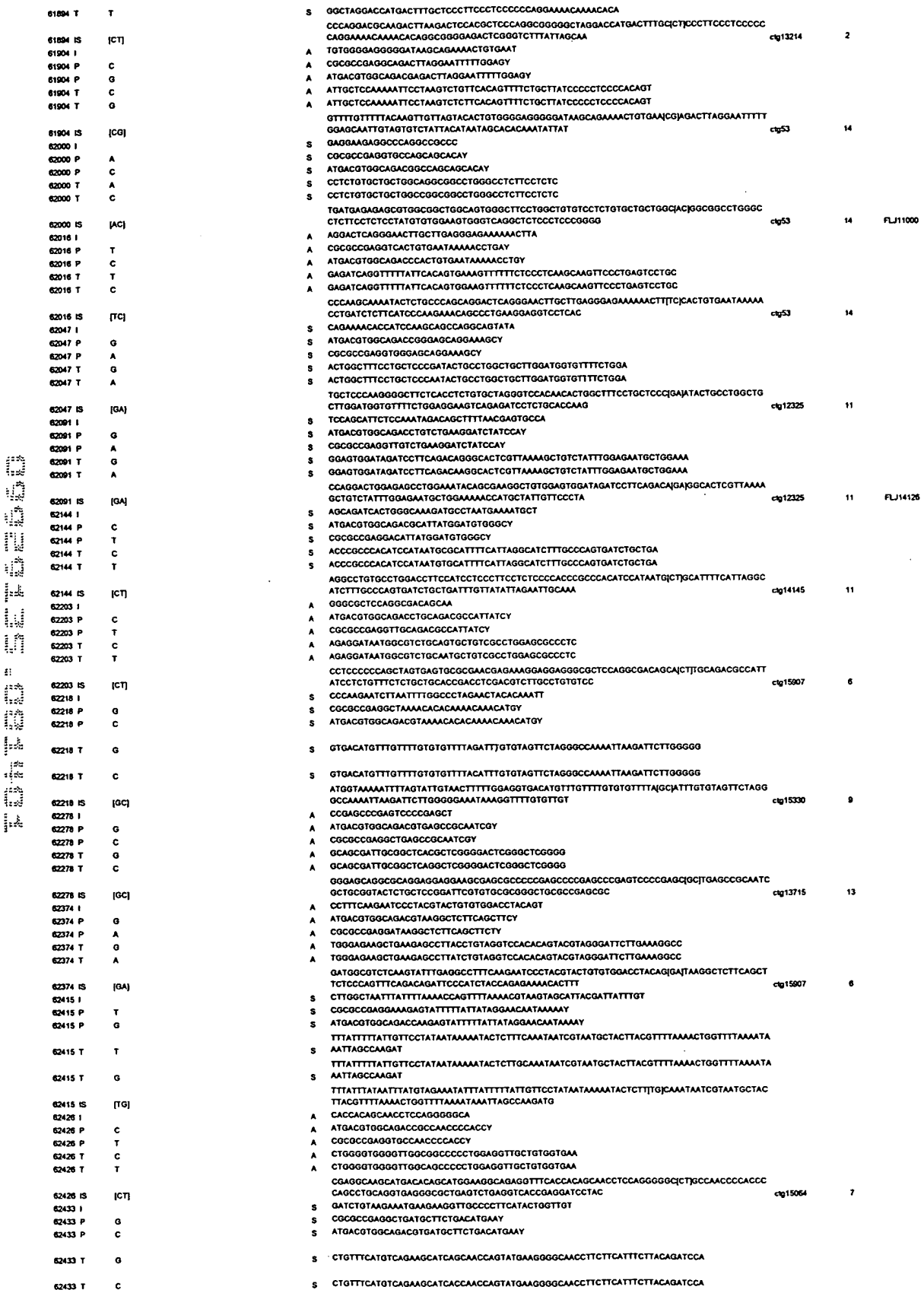
FIGURE 129D

49910 P	C	S	ATGACGTGGCAGACGGGAGGAGGCGCY				
49910 T	T	S	CCTGGCGCCTCCTCCTTCCATGTGGGTGTGCAGCATCCCGCT				
49910 T	C	S	CCTGGCGCCTCCTCCCTCCATGTGGGTGTGCAGCATCCCGCT				
49910 IS	[TC]		AGGTGCCCAGAGTTGCGGGCCTTGCACGCCTTGTACGCCTTGTTCCCTGGCGCCTCCTCC[TC]TCCATGTGGGTGTG CAGCATCCCGCTCCAGGGCCTTCAGCCTCTGCGCCCCTCATCTGCT	ctg13214	2		
50309 I		S	GGATCACAGGATACAAACTGAGAGAAGCCTTCCTTCCAA				
50309 P	G	S	ATGACGTGGCAGACCCCCACTAACCCCATY				
50309 P	A	S	CGCGCCGAGGTCCCACTAACCCCATCY				
50309 T	G	S	TCCGGATGGGGTTAGTGGGGTGGAAGGAAGGCTTCTCTCAGTTTGTATCCTGTGATCCAC				
50309 T	A	S	TCCGGATGGGGTTAGTGGGATGGAAGGAAGGCTTCTCTCAGTTTGTATCCTGTGATCCAC				
50309 IS	[GA]		TGCACTGGCCAGGAAAGACCCCAGTGGTGGAAACCAGGATGTCCGGATGGGGTTAGTGGG[GA]TGGAAGGAAGGCT TCTCTCAGTTTGTATCCTGTGATCCACTTCCTGCACCCCAGAGGGCA	ctg15649	2		
50652 I		S	CCTTGCAGAACTGGAGCTCCAAACAGACACCA				
50652 P	G	S	ATGACGTGGCAGACCGCACCCTCAATGCY				
50652 P	A	S	CGCGCCGAGGTGCACCCTCAATGCTY				
50652 T	G	S	AGGTAGCATTGAGGGTGCGGGTGTCTGTTTGGAGCTCCAGTTCTGCAAGGTC				
50652 T	A	S	AGGTAGCATTGAGGGTGCAGGTGTCTGTTTGGAGCTCCAGTTCTGCAAGGTC				
50652 IS	[GA]		GAAACCAGAGTAGGGCATGAATTTGCTCTGGATAATAAAATTAGGTAGCATTGAGGGTGC[GA]GGTGTCTGTTTGGAG CTCCAGTTCTGCAAGGTCTAGGAAAGCAAATCCAGCAGAAGACAG	ctg15649	2		
50797 I		A	GTGGGGTGGGAGCTGTGGTGAGCT				
50797 P	A	A	CGCGCCGAGGATGGACAGCGGCCY				
50797 P	G	A	ATGACGTGGCAGACGTGGACAGCGGCCY				
50797 T	A	A	GGCCGGCCGCTGTCCATGCTCACCACAGCTCCCACCCCACTC				
50797 T	G	A	GGCCGGCCGCTGTCCACGCTCACCACAGCTCCCACCCCACTC				
50797 IS	[AG]		GGCCGTCACCTCCCTGAGACCTCAGAAGGGCACAGGAGTGGGGTGGGAGCTGTGGTGAGC[AG]TGGACAGCGGCC GGCCCTCTTCTCCTGCCCTCTTGGCATCTTGGCGTCACCATCTGTGAA	ctg14508	3		
50898 I		S	ACTATGTTCACTGCACACCCACACACTGATGGAGT				
50898 P	C	S	ATGACGTGGCAGACGAGAATATAGACAAGGTCTCCY				
50898 P	T	S	CGCGCCGAGGAAGAATATAGACAAGGTCTCCTY				
50898 T	C	S	TGGAAGGAGACCTTGTCTATATTCTCCTCCATCAGTGTGTGGGTGTGCAGTGAACATAGTAG				
50898 T	T	S	TGGAAGGAGACCTTGTCTATATTCTTCTCCATCAGTGTGTGGGTGTGCAGTGAACATAGTAG				
50898 IS	[CT]		TTGACAAACTCACCTCCGCAGAGTGGTCCAACCAATGGAAGGAGACCTTGTCTATATTCT[CT]CTCCATCAGTGTGTG GGTGTGCAGTGAACATAGTAGTACATAGAAAGGGAGAGGAGACTT	ctg15144	12		
51118 I		S	GCCCCCAGAAGCTGCACCCCCT				
51118 P	C	S	ATGACGTGGCAGACGTTTCTCTGCCTTACCTGY				
51118 P	T	S	CGCGCCGAGGATTTCTCTGCCTTACCTGY				
51118 T	C	S	CAAGCAGGTAAGGCAGAGAAACGGGGGTGCAGCTTCTGGGGGCTC				
51118 T	T	S	CAAGCAGGTAAGGCAGAGAAATGGGGGTGCAGCTTCTGGGGGCTC				
51118 IS	[CT]		TGGGTCTTGGAGGGGACACATTCGAACCTCAGCCAGGTACAAGCAGGTAAGGCAGAGAAA[CT]GGGGGTGCAGCTT CTGGGGGCTCGAGAGCCTCAGAGGAGCTTTCCACACCTCAGTGCCCA	ctg14932	16		
51850 I		S	CAGAACATAAGCTGGCTTTTCCCGTCCCCTT				
51850 P	G	S	ATGACGTGGCAGACCCTCCTTTTGGACAGGAY				
51850 P	T	S	CGCGCCGAGGACTCCTTTTGGACAGGAY				
51850 T	G	S	GGACTCCTGTCCAAAAGGAGGAGGGGACGGGAAAAGCCAGCTTATGTTCTGTG				
51850 T	T	S	GGACTCCTGTCCAAAAGGAGTAGGGGACGGGAAAAGCCAGCTTATGTTCTGTG				
51850 IS	[GT]		GGAAGTGCCCTTTCCTAGTATGCTATTCCCTGGACAGCAGGGACTCCTGTCCAAAAGGAG[GT]AGGGGACGGGAAAA GCCAGCTTATGTTCTGTGCCTGTTGAGGAAAGACAGGAAGCACGGC	ctg14932	16		
52121 I		S	CTACATGTCCTGCCACCCCGGCAGT				
52121 P	C	S	ATGACGTGGCAGACGCACTGACTGCACTAAAY				
52121 P	T	S	CGCGCCGAGGACACTGACTGCACTAAACY				
52121 T	C	S	GTGTGTTTAGTGCAGTCAGTGCCTGCCGGGGTGGCAGGACATGTAGGT				
52121 T	T	S	GTGTGTTTAGTGCAGTCAGTGTCTGCCGGGGTGGCAGGACATGTAGGT				
52121 IS	[CT]		GCGGATGAGCTGCTTTCTCATGCGTGCTTGGCCATGCACGTGTGTTTAGTGCAGTCAGTG[CT]CTGCCGGGGTGGCA GGACATGTAGGTCACCCTACCTTGGGGATTCTTGTTATTAGCATAA	ctg15064	7		
52160 I		A	CCTGCGCCTGATGGACTGGACATGTTTGTC				
52160 P	T	A	CGCGCCGAGGTCCCATTGGTGATGGTY				
52160 P	A	A	ATGACGTGGCAGACACCCATTGGTGATGGTY				
52160 T	T	A	ACACACCATCACCAATGGGAACAAACATGTCCAGTCCATCAGGCGCAGGGT				
52160 T	A	A	ACACACCATCACCAATGGGTACAAACATGTCCAGTCCATCAGGCGCAGGGT				
52160 IS	[TA]		TCCGGGCCCTGGAACCAGCAGAAACACCCACCCTGCGCCTGATGGACTGGACATGTTTGT[TA]CCCATTGGTGATGG TGTGTTGGGAGGGAACTGTTTTAGAAACCAATGTAAATCTGTGTCT	ctg15064	7		
52280 I		S	GCCCCTGATGCAGTGCACAGCCTGT				
52280 P	C	S	ATGACGTGGCAGACGCTGAATGCCTATTTCCAY				
52280 P	G	S	CGCGCCGAGGCCTGAATGCCTATTTCCAY				
52280 T	C	S	CTGGTGGAAATAGGCATTCAGCCAGGCTGTGCACTGCATCAGGGGCTC				
52280 T	G	S	CTGGTGGAAATAGGCATTCAGGCAGGCTGTGCACTGCATCAGGGGCTC				
52280 IS	[CG]		GTGAAGAGCCGGCACGGGGAACTCTTCGATAGCCTCGGGCTGGTGGAAATAGGCATTCAG[CG]CAGGCTGTGCACT GCATCAGGGGCTCCGGACCTCCGAGAACCGCAGCGGGGGCTGGGACC	ctg15684	5	MGMT	
52316 I		S	TCAGGGGTGGAGTGTGGCTTAGCCACT				
52316 P	C	S	ATGACGTGGCAGACGGCACACCAAGGTTGY				
52316 P	T	S	CGCGCCGAGGAGCACACCAAGGTTGTY				
52316 T	C	S	TGTAACAACCTTGGTGTGCCGTGGCTAAGCCACACTCCACCCCTGACC				
52316 T	T	S	TGTAACAACCTTGGTGTGCTGTGGCTAAGCCACACTCCACCCCTGACC				
52316 IS	[CT]		CTTCCCTTCTCTCTGTCCTTCCCCCTTCCTTCCTTTACTGATGTAACAACCTTGGTGTGC[CT]GTGGCTAAGCCACACT CCACCCCTGACCTGCGGGGGATGAGTCAAACGGTCAGACTTGCC	ctg15174	19		
52501 I		S	TCAGCAGCGGCAAGCGATCGGGT				
52501 P	C	S	ATGACGTGGCAGACGTGGGTGATATGAATGCTCY				
52501 P	G	S	CGCGCCGAGGCTGGGTGATATGAATGCTCY				
52501 T	C	S	AAGGGAGCATTCATATCACCCACCCCGATCGCTTGCCGCTGCTGACC				
52501 T	G	S	AAGGGAGCATTCATATCACCCAGCCCGATCGCTTGCCGCTGCTGACC				
52501 IS	[CG]		ACAGGTGAACAAAATGTGAAAACATGGGTTTATGTTACAAGGGAGCATTCATATCACCCA[CG]CCCGATCGCTTGCCG CTGCTGACCCTCTCCAATTTCCAGCTTCGATATTCTCCCAAAGCC	ctg17263	16		
52702 I		S	CAGCAGAGGCGCAGGGCGCC				
52702 P	T	S	CGCGCCGAGGATGCCAGCCAGCCY				
52702 P	A	S	ATGACGTGGCAGACTTGCCAGCCAGCCY				
52702 T	T	S	TCCTGGCTGGCTGGCATGCGCCCTGCGCCTCTGCTGGG				
52702 T	A	S	TCCTGGCTGGCTGGCAAGCGCCCTGCGCCTCTGCTGGG				
52702 IS	[TA]		TTCACCTGCGCATCTGCAGCTGGTATGCCGGCTGCCCTGGTGGGTTCCTGGCTGGCTGGCA[TA]GCGCCCTGCGCCT CTGCTGGGCCTGGTGGGGCCTAAGGGTGAAAACTCGGTCAAGATAAG	ctg18037	7		
61156 I		A	TGACAGGAATGCCTGGCCCTGGGAT				
61156 P	G	A	ATGACGTGGCAGACGGCCCTAGGTGATGTTY				
61156 P	C	A	CGCGCCGAGGCGCCCTAGGTGATGTY				
61156 T	G	A	ACAAAACATCACCTAGGGCCTCCCAGGGCCAGGCATTCCTGTCACT				
61156 T	C	A	ACAAAACATCACCTAGGGCGTCCCAGGGCCAGGCATTCCTGTCACT				
61156 IS	[GC]		GACACTCCAAGGGCAATGGCGGACACAGTGGCTTAGTGACAGGAATGCCTGGCCCTGGGA[GC]GCCCTAGGTGATG TTTTGTGACCCTGGATGGCCCTGGGTGACTGTAGGTGATGCTGGGCG	ctg15128	17		
61316 I		S	GGACCGCGGTAGCGGCCAGGC				
61316 P	A	S	CGCGCCGAGGTATTCTACGGTCAAGACAACY				
61316 P	C	S	ATGACGTGGCAGACGATTCTACGGTCAAGACAACY				

FIGURE 129D

61316 T	A	S	CCAAGTTGTCTTGACCGTAGAATACCTGGCCGCTACCGCGGTCCAG				
61316 T	C	S	CCAAGTTGTCTTGACCGTAGAATCCCTGGCCGCTACCGCGGTCCAG				
61316 IS	[AC]		TCCTCTCTGTCGGGTTCTGGTGGTCGACCGGCCACCCCCAAGTTGTCTTGACCGTAGAAT[AC]CCTGGCCGCTACCG CGGTCCAGCGGAGCAATCTGAAGCCAGACTGGCGGGTTCTTGGTTC	ctg14007	17		
61352 I		S	CCCGCCTGACGACTGTGCCCTT				
61352 P	C	S	ATGACGTGGCAGACGGGCCAGACCTACACY				
61352 P	T	S	CGCGCCGAGGAGGCCAGACCTACACY				
61352 T	C	S	GCTGGTGTAGGTCTGGCCCAGGGCACAGTCGTCAGGCGGGGA				
61352 T	T	S	GCTGGTGTAGGTCTGGCCTAGGGCACAGTCGTCAGGCGGGGA				
61352 IS	[CT]		ATTTAGGCAGGGAGAGGCCCGCACCCACACTCACCCAAGGCTGCTGGTGTAGGTCTGGCC[CT]AGGGCACAGTCGT CAGGCGGGGACAATGGGTTAAACCAGAAGTTGGCAGAGCACTTGTTG				
61369 I		A	GGGGCGTGCCGCCGGGC				
61369 P	G	A	ATGACGTGGCAGACGTGGAATTGTGGTAGCAGY				
61369 P	T	A	CGCGCCGAGGTTGGAATTGTGGTAGCAGY				
61369 T	G	A	AAATCTGCTACCACAATTCCACCCCGGCGGCACGCCCCCA				
61369 T	T	A	AAATCTGCTACCACAATTCCAACCCGGCGGCACGCCCCCA				
61369 IS	[GT]		ATCGACAGCTCAGGTCCCGCCCCTGGGGCGACAAAGGAGTCTTGGGGGCGTGCCGCCGGG[GT]TGGAATTGTGGTA GCAGATTTTTGGGGGAGGAGGGCGCAAAGCAGCTAGAAACGCACATC	ctg15907	6		
61415 I		A	CGTGTCACACCTACAAGAGTGACAGAGCCCTCT				
61415 P	G	A	ATGACGTGGCAGACGGCCTCCCTTCAGAAY				
61415 P	A	A	CGCGCCGAGGAGCCTCCCTTCAGAAATY				
61415 T	G	A	CCAGATTTCTGAAGGGAGGCCGAGGGCTCTGTCACTCTTGTAGGTGTGACACGGC				
61415 T	A	A	CCAGATTTCTGAAGGGAGGCTGAGGGCTCTGTCACTCTTGTAGGTGTGACACGGC				
61415 IS	[GA]		AGGGACAGTCATGCTCTGGGACTTTTGCCGTGTCACACCTACAAGAGTGACAGAGCCCTC[GA]GCCTCCCTTCAGAA ATCTGGGGTCCCTGAGGTCGGCTTCTCCATGATGGGCAAGGCTCCA	ctg14946	16		
61432 I		S	CCAACCCATTTCTTCCTGCTCACTCTTCCTGTCA				
61432 P	G	S	ATGACGTGGCAGACCAGTCTGCTCACTCATATTGY				
61432 P	A	S	CGCGCCGAGGTAGTCTGCTCACTCATATTGY				
61432 T	G	S	GAGCCAATATGAGTGAGCAGACTGGACAGGAAGAGTGAGCAGGAAGAAATGGGTTGGGG				
61432 T	A	S	GAGCCAATATGAGTGAGCAGACTAGACAGGAAGAGTGAGCAGGAAGAAATGGGTTGGGG				
61432 IS	[GA]		ATGTGACAGTAGAAGAGAAGAACAACACACAGTGCCCGGAGCCAATATGAGTGAGCAGACT[GA]GACAGGAAGAGTGA GCAGGAAGAAATGGGTTGGGGTGGGGGAGCGGGGAGAAGACTGGCA	ctg15064	7		
61467 I		A	CGCCAGCCTCCGCAATGACTGCAAT				
61467 P	A	A	CGCGCCGAGGAACCACATAGTGCATCCY				
61467 P	G	A	ATGACGTGGCAGACGACCACATAGTGCATCCY				
61467 T	A	A	ATAGGGATGCACTATGTGGTTTTGCAGTCATTGCGGAGGCTGGCGAA				
61467 T	G	A	ATAGGGATGCACTATGTGGTCTTGCAGTCATTGCGGAGGCTGGCGAA				
61467 IS	[AG]		AGCTTGCACTAGGTTAAAAGTTGTGCCTTTCTTTTTCGCCAGCCTCCGCAATGACTGCAA[AG]ACCACATAGTGCATCC CTATGACTAGGTCATTCTTCCAGAGAACCAAGCTCATGGGCACC	ctg15944	11		
61477 I		S	AGACCCTCCCCGCTCACCTCCTCTT				
61477 P	T	S	CGCGCCGAGGATCCCCACAGTGTACTGY				
61477 P	C	S	ATGACGTGGCAGACGTCCCCACAGTGTACTY				
61477 T	T	S	GCAGCAGTACACTGTGGGGATAGAGGAGGTGAGCGGGGAGGGTCTGC				
61477 T	C	S	GCAGCAGTACACTGTGGGGACAGAGGAGGTGAGCGGGGAGGGTCTGC				
61477 IS	[TC]		TGCCCCCGATGCCAGGCAGTGAAACGTTGGCCAAGCAGCAGCAGCAGTACACTGTGGGGA[TC]AGAGGAGGTGAGC GGGGAGGGTCTGCCCCTCCACAGCCCTTCCTCCCTCGGAGCCTGCGG	ctg13023	2		
61499 I		S	CAGCAACTGTCAGACTGGGTTCACCTACCCA				
61499 P	G	S	ATGACGTGGCAGACCCTTCTGATGGCCTTCTY				
61499 P	A	S	CGCGCCGAGGTCTTCTGATGGCCTTCTY				
61499 T	G	S	CTGCAGAAGGCCATCAGAAGGGGGTAGGTGAACCCAGTCTGACAGTTGCTGCT				
61499 T	A	S	CTGCAGAAGGCCATCAGAAGAGGGTAGGTGAACCCAGTCTGACAGTTGCTGCT				
61499 IS	[GA]		GCCAGCATTCTACAGGAAGTTTGGGGGAGCACAAGGTTGCCTGCAGAAGGCCATCAGAAG[GA]GGGTAGGTGAACC CAGTCTGACAGTTGCTGCTTGGGTTTTGACGTCGTTGGACTAGTAGC	ctg13023	2		
61526 I		S	CCACCCTGCCACCCGCCACAA				
61526 P	G	S	ATGACGTGGCAGACCACCACCCCTCAGTCY				
61526 P	A	S	CGCGCCGAGGTACCACCCCTCAGTCTY				
61526 T	G	S	TCCCAGACTGAGGGGTGGTGTGTGGCGGGTGGCAGGGTGGCT				
61526 T	A	S	TCCCAGACTGAGGGGTGGTATGTGGCGGGTGGCAGGGTGGCT				
61526 IS	[GA]		CCTCCTGTTCTGAGCCCTGGGCCTGTGTTCTTCTCAGACACTCCCAGACTGAGGGGTGGT[GA]TGTGGCGGGTGGCA GGGTGGCTGTGGAGACTGGGGATCTGGAGCCTGGTGCTGGCACCTG	ctg22fin4	22		
61620 I		S	CTTCAGCTAATTTTTCTGCATCCCTGTGTTTCCATATCC				
61620 P	A	S	CGCGCCGAGGTAAGGTGTCTGGCCAGY				
61620 P	T	S	ATGACGTGGCAGACAAAGGTGTCTGGCCAY				
61620 T	A	S	CCTTCTGGCCAGACACCTTAGATATGGAAACACAGGGATGCAGAAAAATTAGCTGAAGAA				
61620 T	T	S	CCTTCTGGCCAGACACCTTTGATATGGAAACACAGGGATGCAGAAAAATTAGCTGAAGAA				
61620 IS	[AT]		TGTGGGATCGCACCAGTGCATTGATATCTGTCCCATCAGATCCTTCTGGCCAGACACCTT[AT]GATATGGAAACACAG GGATGCAGAAAAATTAGCTGAAGAAATATAACTGTGATGCTATAT	ctg22fin4	22		
61636 I		S	CCCGGGAGGACCAAGGACACAGGTT				
61636 P	C	S	ATGACGTGGCAGACGGAAGGCTTTTACCTGAGY				
61636 P	T	S	CGCGCCGAGGAGAAGGCTTTTACCTGAGY				
61636 T	C	S	AGGCCTCAGGTAAAAGCCTTCCACCTGTGTCCTTGGTCCTCCCGGGCT				
61636 T	T	S	AGGCCTCAGGTAAAAGCCTTCTACCTGTGTCCTTGGTCCTCCCGGGCT				
61636 IS	[CT]		GGGGCACACTGGCCCAAGATGACCCACCTATTATCTTTGAGGCCTCAGGTAAAAGCCTTC[CT]ACCTGTGTCCTTGGT CCTCCCGGGCTCCCTCCACCAGGACAGCCCAGGTCCCGATTACAG	ctg22fin4	22		
61669 I		A	GTTCCACTTTCTCACCCTGGGAAACTTCAGAAAGACTGT				
61669 P	A	A	CGCGCCGAGGAAATGGAAATGAGCATTAGGAY				
61669 P	G	A	ATGACGTGGCAGACGAATGGAAATGAGCATTAGGAY				
61669 T	A	A	TAGCTCCTAATGCTCATTTCCATTTCAGTCTTTCTGAAGTTTCCCAGGGTGAGAAAGTGGAACTC				
61669 T	G	A	TAGCTCCTAATGCTCATTTCCATTCCAGTCTTTCTGAAGTTTCCCAGGGTGAGAAAGTGGAACTC				
61669 IS	[AG]		CAATGATGATTCATTGTCCTGAGTTCCACTTTCTCACCCTGGGAAACTTCAGAAAGACTG[AG]AATGGAAATGAGCATT AGGAGCTAGGTCCGCTTGCCTGGGCTGTCTCTCAGGTTAGTGGA	ctg15804	2		
61733 I		A	GCAAAGCAGATGCATGCAACAACTTGGAAAAT				
61733 P	A	A	CGCGCCGAGGAGTTACAGACAACACATTAGCY				
61733 P	G	A	ATGACGTGGCAGACGGTTACAGACAACACATTAGCY				
61733 T	A	A	TTCTGCTAATGTGTTGTCTGTAACTTTTTCCAAGTTGTTGCATGCATCTGCTTTGCTT				
61733 T	G	A	TTCTGCTAATGTGTTGTCTGTAACCTTTTCCAAGTTGTTGCATGCATCTGCTTTGCTT				
61733 IS	[AG]		TTCTAGCTTCATCCAATCTATTTTTAAAAGCAAAGCAGATGCATGCAACAACTTGGAAAA[AG]GTTACAGACAACACATT AGCAGAAGAAAAATAGCATAACAAAAAAAGAATAACAAAACTC	ctg12325	11		
61746 I		S	CCTACGTGCCTGCCCTCTGCCCAT				
61746 P	G	S	CGCGCCGAGGCTGAAAGTGGGAGCATCY				
61746 P	C	S	ATGACGTGGCAGACGTGAAAGTGGGAGCATCY				
61746 T	G	S	TTCTGATGCTCCCACTTTCAGTGGGCAGAGGGCAGGCACGTAGGCA				
61746 T	C	S	TTCTGATGCTCCCACTTTCACTGGGCAGAGGGCAGGCACGTAGGCA				
61746 IS	[GC]		CTGATCTGTCCCTCACATGGGGGTTGGGGGCACAGCTCCCTTCTGATGCTCCCACTTTCA[GC]TGGGCAGAGGGCAG GCACGTAGGCAGTGGGGAGAAAGAGGTGAAAGTTAGAGGGAAAGGC	ctg22fin3	22	FLJ14327	
61894 I		S	TGTTTTGTTTTCCTGGGGGGAGGGAAGGGT				
61894 P	C	S	ATGACGTGGCAGACGGCAAAGTCATGGTCCY				
61894 P	T	S	CGCGCCGAGGAGCAAAGTCATGGTCCTY				
61894 T	C	S	GGCTAGGACCATGACTTTGCCCCCTTCCCTCCCCCCAGGAAAACAAAACACA				

FIGURE 129D



61894 T	T	S	GGCTAGGACCATGACTTTGCTCCCTTCCCTCCCCCCAGGAAAACAAAACACA				
61894 IS	[CT]		CCCAGGACGCAAGACTTAAGACTCCACGCTCCCAGGCGGGGGCTAGGACCATGACTTTG[C/T]CCCTTCCCTCCCCC CAGGAAAACAAAACACAGGCGGGGAGACTCGGGTCTTTATTAGCAA	ctg13214	2		
61904 I		A	TGTGGGGAGGGGGATAAGCAGAAAACTGTGAAT				
61904 P	C	A	CGCGCCGAGGCAGACTTAGGAATTTTTGGAGY				
61904 P	G	A	ATGACGTGGCAGACGAGACTTAGGAATTTTTGGAGY				
61904 T	C	A	ATTGCTCCAAAAATTCCTAAGTCTGTTCACAGTTTTCTGCTTATCCCCCTCCCCACAGT				
61904 T	G	A	ATTGCTCCAAAAATTCCTAAGTCTCTTCACAGTTTTCTGCTTATCCCCCTCCCCACAGT				
61904 IS	[CG]		GTTTTGTTTTTACAAGTTGTTAGTACACTGTGGGGAGGGGGATAAGCAGAAAACTGTGAA[C/G]AGACTTAGGAATTTTT GGAGCAATTGTAGTGTCTATTACATAATAGCACACAAATATTAT	ctg53	14		
62000 I		S	GAGGAAGAGGCCCAGGCCGCCC				
62000 P	A	S	CGCGCCGAGGTGCCAGCAGCACAY				
62000 P	C	S	ATGACGTGGCAGACGGCCAGCAGCACAY				
62000 T	A	S	CCTCTGTGCTGCTGGCAGGCGGCCTGGGCCTCTTCCTCTC				
62000 T	C	S	CCTCTGTGCTGCTGGCCGGCGGCCTGGGCCTCTTCCTCTC				
62000 IS	[AC]		TGATGAGAGAGCGTGGCGGCTGGCAGTGGGCTTCCTGGCTGTGTCCTCTGTGCTGCTGGC[A/C]GGCGGCCTGGGC CTCTTCCTCTCCTATGTGTGGAAGTGGGTCAGGCTCTCCCTCCCGGGG	ctg53	14	FLJ11000	
62016 I		A	AGGACTCAGGGAACTTGCTTGAGGGAGAAAAAACTTA				
62016 P	T	A	CGCGCCGAGGTCACTGTGAATAAAAACCTGAY				
62016 P	C	A	ATGACGTGGCAGACCCACTGTGAATAAAAACCTGY				
62016 T	T	A	GAGATCAGGTTTTTATTCACAGTGAAAGTTTTTTCTCCCTCAAGCAAGTTCCCTGAGTCCTGC				
62016 T	C	A	GAGATCAGGTTTTTATTCACAGTGGAAGTTTTTTCTCCCTCAAGCAAGTTCCCTGAGTCCTGC				
62016 IS	[TC]		CCCAAGCAAAATACTCTGCCCAGCAGGACTCAGGGAACTTGCTTGAGGGAGAAAAAACTT[T/C]CACTGTGAATAAAAA CCTGATCTCTTCATCCCAAGAAACAGCCCTGAAGGAGGTCCTCAC	ctg53	14		
62047 I		S	CAGAAAACACCATCCAAGCAGCCAGGCAGTATA				
62047 P	G	S	ATGACGTGGCAGACCGGGAGCAGGAAAGCY				
62047 P	A	S	CGCGCCGAGGTGGGAGCAGGAAAGCY				
62047 T	G	S	ACTGGCTTTCCTGCTCCCGATACTGCCTGGCTGCTTGGATGGTGTTTTCTGGA				
62047 T	A	S	ACTGGCTTTCCTGCTCCCAATACTGCCTGGCTGCTTGGATGGTGTTTTCTGGA				
62047 IS	[GA]		TGCTCCCAAGGGGCTTCTCACCTCTGTGCTAGGGTCCACAACACTGGCTTTCCTGCTCCC[G/A]TACTGCCTGGCTG CTTGGATGGTGTTTTCTGGAGGAAGTCAGAGATCCTCTGCACCAAG	ctg12325	11		
62091 I		S	TCCAGCATTCTCCAAATAGACAGCTTTTAACGAGTGCCA				
62091 P	G	S	ATGACGTGGCAGACCTGTCTGAAGGATCTATCCAY				
62091 P	A	S	CGCGCCGAGGTTGTCTGAAGGATCTATCCAY				
62091 T	G	S	GGAGTGGATAGATCCTTCAGACAGGGCACTCGTTAAAAGCTGTCTATTTGGAGAATGCTGGAAA				
62091 T	A	S	GGAGTGGATAGATCCTTCAGACAAGGCACTCGTTAAAAGCTGTCTATTTGGAGAATGCTGGAAA				
62091 IS	[GA]		CCAGGACTGGAGAGCCTGGAAATACAGCGAAGGCTGTGGAGTGGATAGATCCTTCAGACA[G/A]GGCACTCGTTAAAA GCTGTCTATTTGGAGAATGCTGGAAAAACCATGCTATTGTTCCCTA	ctg12325	11	FLJ14126	
62144 I		S	AGCAGATCACTGGGCAAAGATGCCTAATGAAAATGCT				
62144 P	C	S	ATGACGTGGCAGACGCATTATGGATGTGGGCY				
62144 P	T	S	CGCGCCGAGGACATTATGGATGTGGGCY				
62144 T	C	S	ACCCGCCCACATCCATAATGCGCATTTTCATTAGGCATCTTTGCCCAGTGATCTGCTGA				
62144 T	T	S	ACCCGCCCACATCCATAATGTGCATTTTCATTAGGCATCTTTGCCCAGTGATCTGCTGA				
62144 IS	[CT]		AGGCCTGTGCCTGGACCTTCCATCCTCCCTTCCTCTCCCCACCCGCCCACATCCATAATG[C/T]GCATTTTCATTAGGC ATCTTTGCCCAGTGATCTGCTGATTTGTTATATTAGAATTGCAAA	ctg14145	11		
62203 I		A	GGGCGCTCCAGGCGACAGCAA				
62203 P	C	A	ATGACGTGGCAGACCTGCAGACGCCATTATCY				
62203 P	T	A	CGCGCCGAGGTTGCAGACGCCATTATCY				
62203 T	C	A	AGAGGATAATGGCGTCTGCAGTGCTGTCGCCTGGAGCGCCCTC				
62203 T	T	A	AGAGGATAATGGCGTCTGCAATGCTGTCGCCTGGAGCGCCCTC				
62203 IS	[CT]		CCTCCCCCCAGCTAGTGAGTGCGCGAACGAGAAAGGAGGAGGGCGCTCCAGGCGACAGCA[C/T]TGCAGACGCCATT ATCCTCTGTTTCTCTGCTGCACCGACCTCGACGTCTTGCCTGTGTCC	ctg15907	6		
62218 I		S	CCCAAGAATCTTAATTTTGGCCCTAGAACTACACAAATT				
62218 P	G	S	CGCGCCGAGGCTAAAACACACAAAACAAACATGY				
62218 P	C	S	ATGACGTGGCAGACGTAAAACACACAAAACAAACATGY				
62218 T	G	S	GTGACATGTTTGTTTTGTGTGTTTTAGATT]GTGTAGTTCTAGGGCCAAAATTAAGATTCTTGGGGG				
62218 T	C	S	GTGACATGTTTGTTTTGTGTGTTTTACATTTGTGTAGTTCTAGGGCCAAAATTAAGATTCTTGGGGG				
62218 IS	[GC]		ATGGTAAAAATTTTAGTATTGTAACTTTTTGGAGGTGACATGTTTGTTTTGTGTGTTTTA[G/C]ATTTGTGTAGTTCTAGG GCCAAAATTAAGATTCTTGGGGGAAATAAAGGTTTTGTGTTGT	ctg15330	9		
62278 I		A	CCGAGCCCGAGTCCCCGAGCT				
62278 P	G	A	ATGACGTGGCAGACGTGAGCCGCAATCGY				
62278 P	C	A	CGCGCCGAGGCTGAGCCGCAATCGY				
62278 T	G	A	GCAGCGATTGCGGCTCACGCTCGGGGACTCGGGCTCGGGG				
62278 T	C	A	GCAGCGATTGCGGCTCAGGCTCGGGGACTCGGGCTCGGGG				
62278 IS	[GC]		GGGAGCAGGCGCAGGAGGAGGAAGCGAGCGCCCCCGAGCCCGAGTCCCGAGC[G/C]TGAGCCGCAATC GCTGCGGTACTCTGCTCCGGATTCGTGTGCGCGGGCTGCGCCGAGCGC	ctg13715	13		
62374 I		A	CCTTTCAAGAATCCCTACGTACTGTGTGGACCTACAGT				
62374 P	G	A	ATGACGTGGCAGACGTAAGGCTCTTCAGCTTCY				
62374 P	A	A	CGCGCCGAGGATAAGGCTCTTCAGCTTCTY				
62374 T	G	A	TGGGAGAAGCTGAAGAGCCTTACCTGTAGGTCCACACAGTACGTAGGGATTCTTGAAAGGCC				
62374 T	A	A	TGGGAGAAGCTGAAGAGCCTTATCTGTAGGTCCACACAGTACGTAGGGATTCTTGAAAGGCC				
62374 IS	[GA]		GATGGCGTCTCAAGTATTTGAGGCCTTTCAAGAATCCCTACGTACTGTGTGGACCTACAG[G/A]TAAGGCTCTTCAGCT TCTCCCAGTTTCAGACAGATTCCCATCTACCAGAGAAAACACTTT	ctg15907	6		
62415 I		S	CTTGGCTAATTTATTTTAAAACCAGTTTTAAAACGTAAGTAGCATTACGATTATTTGT				
62415 P	T	S	CGCGCCGAGGAAAGAGTATTTTTATTATAGGAACAATAAAAY				
62415 P	G	S	ATGACGTGGCAGACCAAGAGTATTTTTATTATAGGAACAATAAAAY				
62415 T	T	S	TTTATTTTTATTGTTCCTATAATAAAAATACTCTTTCAAATAATCGTAATGCTACTTACGTTTTAAAACTGGTTTTAAAATA AATTAGCCAAGAT				
62415 T	G	S	TTTATTTTTATTGTTCCTATAATAAAAATACTCTTGCAAATAATCGTAATGCTACTTACGTTTTAAAACTGGTTTTAAAATA AATTAGCCAAGAT				
62415 IS	[TG]		TTTATTTATAATTTATGTAGAAATATTTATTTTTATTGTTCCTATAATAAAAATACTCTT[T/G]CAAATAATCGTAATGCTAC TTACGTTTTAAAACTGGTTTTAAAATAAATTAGCCAAGATG				
62426 I		A	CACCACAGCAACCTCCAGGGGGGCA				
62426 P	C	A	ATGACGTGGCAGACCGCCAACCCCACCY				
62426 P	T	A	CGCGCCGAGGTGCCAACCCCACCY				
62426 T	C	A	CTGGGGTGGGGTTGGCGGCCCCCTGGAGGTTGCTGTGGTGAA				
62426 T	T	A	CTGGGGTGGGGTTGGCAGCCCCCTGGAGGTTGCTGTGGTGAA				
62426 IS	[CT]		CGAGGCAAGCATGACACAGCATGGAAGGCAGAGGTTTCACCACAGCAACCTCCAGGGGGC[C/T]GCCAACCCCACCC CAGCCTGCAGGTGAGGGCGCTGAGTCTGAGGTCACCGAGGATCCTAC	ctg15064	7		
62433 I		S	GATCTGTAAGAAATGAAGAAGGTTGCCCCTTCATACTGGTTGT				
62433 P	G	S	CGCGCCGAGGCTGATGCTTCTGACATGAAY				
62433 P	C	S	ATGACGTGGCAGACGTGATGCTTCTGACATGAAY				
62433 T	G	S	CTGTTTCATGTCAGAAGCATCAGCAACCAGTATGAAGGGGCAACCTTCTTCATTTCTTACAGATCCA				
62433 T	C	S	CTGTTTCATGTCAGAAGCATCACCAACCAGTATGAAGGGGCAACCTTCTTCATTTCTTACAGATCCA				

FIGURE 129D

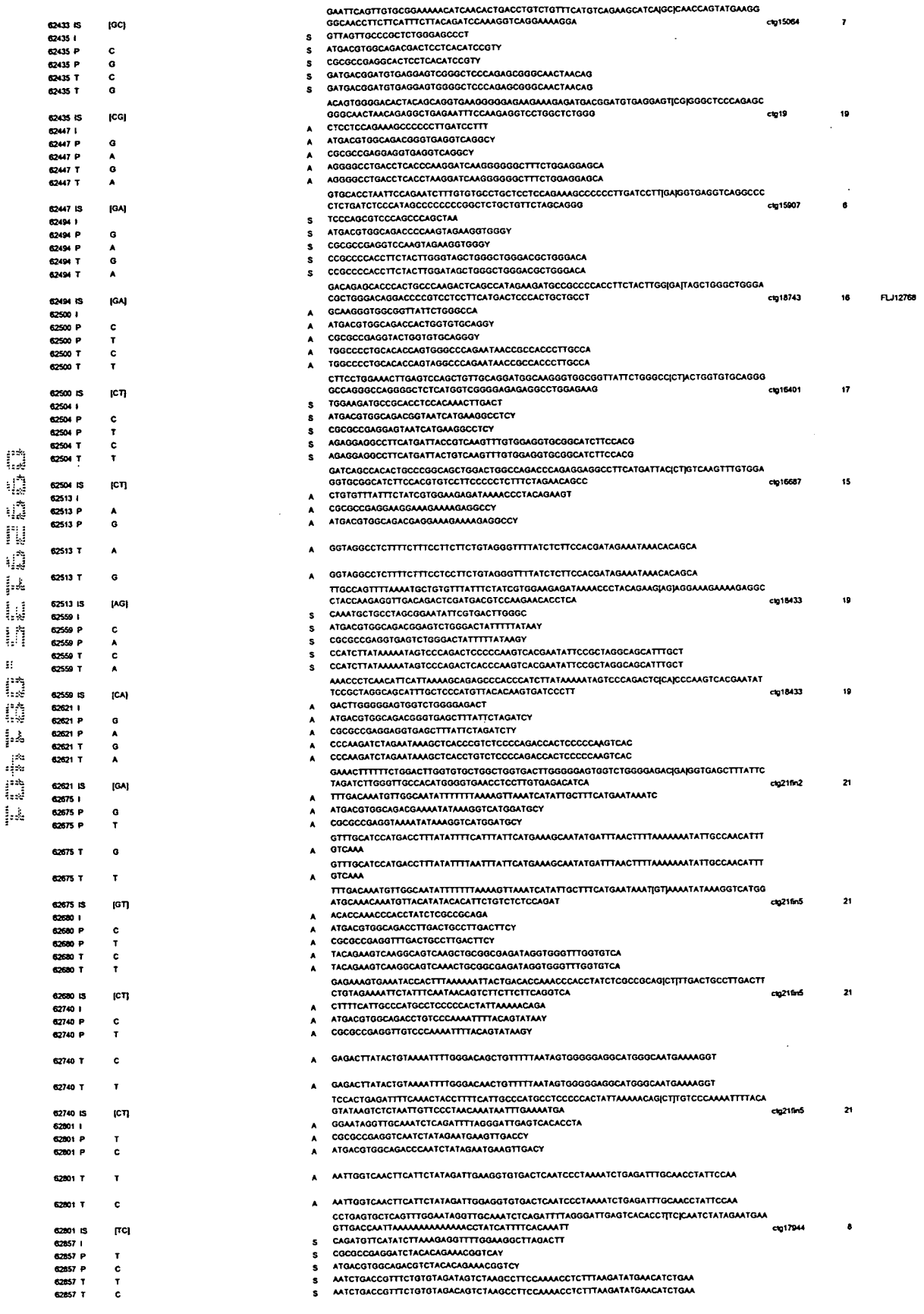

GAATTCAGTTGTGCGGAAAAACATCAACACTGACCTGTCTGTTTCATGTCAGAAGCATCA[GC]CAACCAGTATGAAGG
62433 IS [GC] GGCAACCTTCTTCATTTCTTACAGATCCAAAGGTCAGGAAAAGGA ctg15064 7
62435 I S GTTAGTTGCCCGCTCTGGGAGCCCT
62435 P C S ATGACGTGGCAGACGACTCCTCACATCCGTY
62435 P G S CGCGCCGAGGCACTCCTCACATCCGTY
62435 T C S GATGACGGATGTGAGGAGTCGGGCTCCCAGAGCGGGCAACTAACAG
62435 T G S GATGACGGATGTGAGGAGTGGGGCTCCCAGAGCGGGCAACTAACAG
ACAGTGGGGACACTACAGCAGGTGAAGGGGAGAAGAAAGAGATGACGGATGTGAGGAGT[CG]GGGCTCCCAGAGC
62435 IS [CG] GGGCAACTAACAGAGGCTGAGAATTTCCAAGAGGTCCTGGCTCTGGG ctg19 19
62447 I A CTCCTCCAGAAAGCCCCCCTTGATCCTTT
62447 P G A ATGACGTGGCAGACGGGTGAGGTCAGGCY
62447 P A A CGCGCCGAGGAGGTGAGGTCAGGCY
62447 T G A AGGGGCCTGACCTCACCCAAGGATCAAGGGGGGCTTTCTGGAGGAGCA
62447 T A A AGGGGCCTGACCTCACCTAAGGATCAAGGGGGGCTTTCTGGAGGAGCA
GTGCACCTAATTCCAGAATCTTTGTGTGCCTGCTCCTCCAGAAAGCCCCCCTTGATCCTT[GA]GGTGAGGTCAGGCCC
62447 IS [GA] CTCTGATCTCCCATAGCCCCCCCCGGCTCTGCTGTTCTAGCAGGG ctg15907 6
62494 I S TCCCAGCGTCCCAGCCCAGCTAA
62494 P G S ATGACGTGGCAGACCCCAAGTAGAAGGTGGGY
62494 P A S CGCGCCGAGGTCCAAGTAGAAGGTGGGY
62494 T G S CCGCCCCCACCTTCTACTTGGGTAGCTGGGCTGGGACGCTGGGACA
62494 T A S CCGCCCCCACCTTCTACTTGGATAGCTGGGCTGGGACGCTGGGACA
GACAGAGCACCCACTGCCCAAGACTCAGCCATAGAAGATGCCGCCCCCACCTTCTACTTGG[GA]TAGCTGGGCTGGGA
62494 IS [GA] CGCTGGGACAGGACCCCGTCCTCCTTCATGACTCCCACTGCTGCCT ctg18743 16 FLJ12768
62500 I A GCAAGGGTGGCGGTTATTCTGGGCCA
62500 P C A ATGACGTGGCAGACCACTGGTGTGCAGGY
62500 P T A CGCGCCGAGGTACTGGTGTGCAGGGY
62500 T C A TGGCCCCTGCACACCAGTGGGCCCAGAATAACCGCCACCCTTGCCA
62500 T T A TGGCCCCTGCACACCAGTAGGCCCAGAATAACCGCCACCCTTGCCA
CTTCCTGGAAACTTGAGTCCAGCTGTTGCAGGATGGCAAGGGTGGCGGTTATTCTGGGCC[CT]ACTGGTGTGCAGGG
62500 IS [CT] GCCAGGGCCAGGGGCTCTCATGGTCGGGGAGAGAGGCCTGGAGAAG ctg16401 17
62504 I S TGGAAGATGCCGCACCTCCACAAACTTGACT
62504 P C S ATGACGTGGCAGACGGTAATCATGAAGGCCTCY
62504 P T S CGCGCCGAGGAGTAATCATGAAGGCCTCY
62504 T C S AGAGGAGGCCTTCATGATTACCGTCAAGTTTGTGGAGGTGCGGCATCTTCCACG
62504 T T S AGAGGAGGCCTTCATGATTACTGTCAAGTTTGTGGAGGTGCGGCATCTTCCACG
GATCAGCCACACTGCCCGGCAGCTGGACTGGCCAGACCCAGAGGAGGCCTTCATGATTAC[CT]GTCAAGTTTGTGGA
62504 IS [CT] GGTGCGGCATCTTCCACGTGTCCTTCCCCCTCTTTCTAGAACAGCC ctg16687 15
62513 I A CTGTGTTTATTTCTATCGTGGAAGAGATAAAACCCTACAGAAGT
62513 P A A CGCGCCGAGGAAGGAAAGAAAAGAGGCCY
62513 P G A ATGACGTGGCAGACGAGGAAAGAAAAGAGGCCY
62513 T A A GGTAGGCCTCTTTTCTTTCCTTCTTCTGTAGGGTTTTATCTCTTCCACGATAGAAATAAACACAGCA
62513 T G A GGTAGGCCTCTTTTCTTTCCTCCTTCTGTAGGGTTTTATCTCTTCCACGATAGAAATAAACACAGCA
TTGCCAGTTTTAAAATGCTGTGTTTATTTCTATCGTGGAAGAGATAAAACCCTACAGAAG[AG]AGGAAAGAAAAGAGGC
62513 IS [AG] CTACCAAGAGGTTGACAGACTCGATGACGTCCAAGAACACCTCA ctg18433 19
62559 I S CAAATGCTGCCTAGCGGAATATTCGTGACTTGGGC
62559 P C S ATGACGTGGCAGACGGAGTCTGGGACTATTTTTATAAY
62559 P A S CGCGCCGAGGTGAGTCTGGGACTATTTTTATAAGY
62559 T C S CCATCTTATAAAAATAGTCCCAGACTCCCCCAAGTCACGAATATTCCGCTAGGCAGCATTTGCT
62559 T A S CCATCTTATAAAAATAGTCCCAGACTCACCCAAGTCACGAATATTCCGCTAGGCAGCATTTGCT
AAACCCTCAACATTCATTAAAAGCAGAGCCCACCCATCTTATAAAAATAGTCCCAGACT[C]CA[C]CCCAAGTCACGAATAT
62559 IS [CA] TCCGCTAGGCAGCATTTGCTCCCATGTTACACAAGTGATCCCTT ctg18433 19
62621 I A GACTTGGGGGAGTGGTCTGGGGAGACT
62621 P G A ATGACGTGGCAGACGGGTGAGCTTTATTCTAGATCY
62621 P A A CGCGCCGAGGAGGTGAGCTTTATTCTAGATCTY
62621 T G A CCCAAGATCTAGAATAAAGCTCACCCGTCTCCCCAGACCACTCCCCCAAGTCAC
62621 T A A CCCAAGATCTAGAATAAAGCTCACCTGTCTCCCCAGACCACTCCCCCAAGTCAC
GAAACTTTTTTCTGGACTTGGTGTGCTGGCTGGTGACTTGGGGGAGTGGTCTGGGGAGAC[GA]GGTGAGCTTTATTC
62621 IS [GA] TAGATCTTGGGTTGCCACATGGGGTGAACCTCCTTGTGAGACATCA ctg21fin2 21
62675 I A TTTGACAAATGTTGGCAATATTTTTTTAAAAGTTAAATCATATTGCTTTCATGAATAAATC
62675 P G A ATGACGTGGCAGACGAAAATATAAAGGTCATGGATGCY
62675 P T A CGCGCCGAGGTAAAATATAAAGGTCATGGATGCY
GTTTGCATCCATGACCTTTATATTTTCATTTATTCATGAAAGCAATATGATTTAACTTTTAAAAAAATATTGCCAACATTT
62675 T G A GTCAAA
GTTTGCATCCATGACCTTTATATTTTAATTTATTCATGAAAGCAATATGATTTAACTTTTAAAAAAATATTGCCAACATTT
62675 T T A GTCAAA
TTTGACAAATGTTGGCAATATTTTTTTAAAAGTTAAATCATATTGCTTTCATGAATAAAT[GT]AAAATATAAAGGTCATGG
62675 IS [GT] ATGCAAACAAATGTTACATATACACATTCTGTCTCTCCAGAT ctg21fin5 21
62680 I A ACACCAAACCCACCTATCTCGCCGCAGA
62680 P C A ATGACGTGGCAGACCTTGACTGCCTTGACTTCY
62680 P T A CGCGCCGAGGTTTGACTGCCTTGACTTCY
62680 T C A TACAGAAGTCAAGGCAGTCAAGCTGCGGCGAGATAGGTGGGTTTGGTGTCA
62680 T T A TACAGAAGTCAAGGCAGTCAAACTGCGGCGAGATAGGTGGGTTTGGTGTCA
GAGAAAGTGAAATACCACTTTAAAAAATTACTGACACCAAACCCACCTATCTCGCCGCAG[CT]TTGACTGCCTTGACTT
62680 IS [CT] CTGTAGAAAATTCTATTTCAATAACAGTCTTCTTCTTCAGGTCA ctg21fin5 21
62740 I A CTTTTCATTGCCCATGCCTCCCCCACTATTAAAAACAGA
62740 P C A ATGACGTGGCAGACCTGTCCCAAAATTTTACAGTATAAY
62740 P T A CGCGCCGAGGTTGTCCCAAAATTTTACAGTATAAGY
62740 T C A GAGACTTATACTGTAAAATTTTGGGACAGCTGTTTTTAATAGTGGGGGAGGCATGGGCAATGAAAAGGT
62740 T T A GAGACTTATACTGTAAAATTTTGGGACAACTGTTTTTAATAGTGGGGGAGGCATGGGCAATGAAAAGGT
TCCACTGAGATTTTCAAACTACCTTTTCATTGCCCATGCCTCCCCCACTATTAAAAACAG[CT]TGTCCCAAAATTTTACA
62740 IS [CT] GTATAAGTCTCTAATTGTTCCCTAACAAATAATTTGAAAATGA ctg21fin5 21
62801 I A GGAATAGGTTGCAAATCTCAGATTTTAGGGATTGAGTCACACCTA
62801 P T A CGCGCCGAGGTCAATCTATAGAATGAAGTTGACCY
62801 P C A ATGACGTGGCAGACCCAATCTATAGAATGAAGTTGACY
62801 T T A AATTGGTCAACTTCATTCTATAGATTGAAGGTGTGACTCAATCCCTAAAATCTGAGATTTGCAACCTATTCCAA
62801 T C A AATTGGTCAACTTCATTCTATAGATTGGAGGTGTGACTCAATCCCTAAAATCTGAGATTTGCAACCTATTCCAA
CCTGAGTGCTCAGTTTGGAATAGGTTGCAAATCTCAGATTTTAGGGATTGAGTCACACCT[T]TC[C]AATCTATAGAATGAA
62801 IS [TC] GTTGACCAATTAAAAAAAAAAAAAACCTATCATTTTCACAAATT ctg17944 8
62857 I S CAGATGTTCATATCTTAAAGAGGTTTTGGAAGGCTTAGACTT
62857 P T S CGCGCCGAGGATCTACACAGAAACGGTCAY
62857 P C S ATGACGTGGCAGACGTCTACACAGAAACGGTCY
62857 T T S AATCTGACCGTTTCTGTGTAGATAGTCTAAGCCTTCCAAAACCTCTTTAAGATATGAACATCTGAA
62857 T C S AATCTGACCGTTTCTGTGTAGACAGTCTAAGCCTTCCAAAACCTCTTTAAGATATGAACATCTGAA

FIGURE 129D

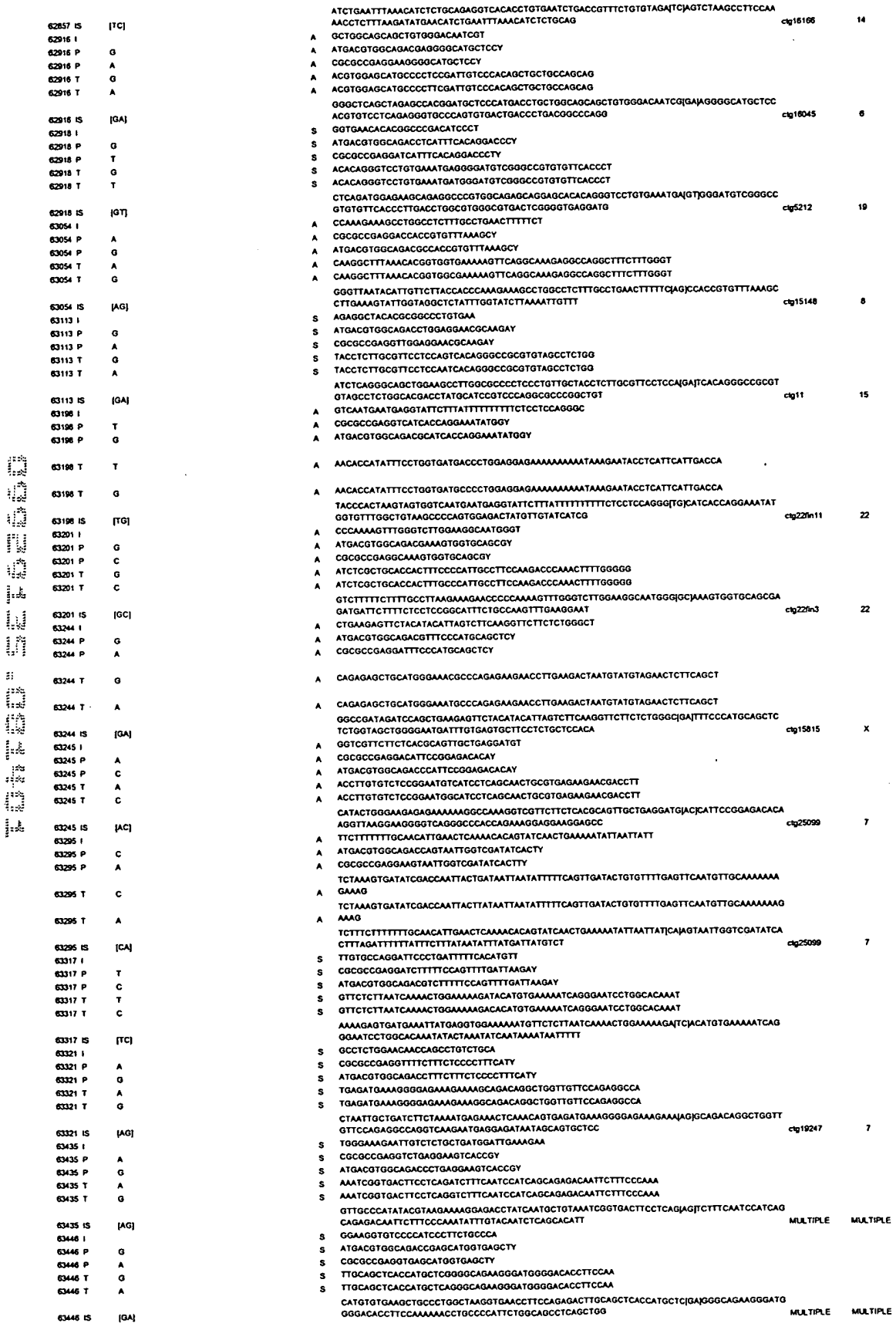

62857 IS [TC] ATCTGAATTTAAACATCTCTGCAGAGGTCACACCTGTGAATCTGACCGTTTCTGTGTAGA[TC]AGTCTAAGCCTTCCAA AACCTCTTTAAGATATGAACATCTGAATTTAAACATCTCTGCAG ctg16166 14
62916 I A GCTGGCAGCAGCTGTGGGACAATCGT
62916 P G A ATGACGTGGCAGACGAGGGGCATGCTCCY
62916 P A A CGCGCCGAGGAAGGGGCATGCTCCY
62916 T G A ACGTGGAGCATGCCCCTCCGATTGTCCCACAGCTGCTGCCAGCAG
62916 T A A ACGTGGAGCATGCCCCTTCGATTGTCCCACAGCTGCTGCCAGCAG
62918 IS [GA] GGGCTCAGCTAGAGCCACGGATGCTCCCATGACCTGCTGGCAGCAGCTGTGGGACAATCG[GA]AGGGGCATGCTCC ACGTGTCCTCAGAGGGTGCCCAGTGTGACTGACCCTGACGGCCCAGG ctg16045 6
62918 I S GGTGAACACACGGCCCGACATCCCT
62918 P G S ATGACGTGGCAGACCTCATTTCACAGGACCCY
62918 P T S CGCGCCGAGGATCATTTCACAGGACCCTY
62918 T G S ACACAGGGTCCTGTGAAATGAGGGGATGTCGGGCCGTGTGTTCACCCT
62918 T T S ACACAGGGTCCTGTGAAATGATGGGATGTCGGGCCGTGTGTTCACCCT
63054 IS [GT] CTCAGATGGAGAAGCAGAGGCCCGTGGCAGAGCAGGAGCACACAGGGTCCTGTGAAATGA[GT]GGGATGTCGGGCC GTGTGTTCACCCTTGACCTGGCGTGGGCGTGACTCGGGGTGAGGATG ctg5212 19
63054 I A CCAAAGAAAGCCTGGCCTCTTTGCCTGAACTTTTTCT
63054 P A A CGCGCCGAGGACCACCGTGTTTAAAGCY
63054 P G A ATGACGTGGCAGACGCCACCGTGTTTAAAGCY
63054 T A A CAAGGCTTTAAACACGGTGGTGAAAAAGTTCAGGCAAAGAGGCCAGGCTTTCTTTGGGT
63054 T G A CAAGGCTTTAAACACGGTGGCGAAAAAGTTCAGGCAAAGAGGCCAGGCTTTCTTTGGGT
63113 IS [AG] GGGTTAATACATTGTTCTTACCACCCAAAGAAAGCCTGGCCTCTTTGCCTGAACTTTTTC[AG]CCACCGTGTTTAAAGC CTTGAAAGTATTGGTAGGCTCTATTTGGTATCTTAAAATTGTTT ctg15148 8
63113 I S AGAGGCTACACGCGGCCCTGTGAA
63113 P G S ATGACGTGGCAGACCTGGAGGAACGCAAGAY
63113 P A S CGCGCCGAGGTTGGAGGAACGCAAGAY
63113 T G S TACCTCTTGCGTTCCTCCAGTCACAGGGCCGCGTGTAGCCTCTGG
63113 T A S TACCTCTTGCGTTCCTCCAATCACAGGGCCGCGTGTAGCCTCTGG
63198 IS [GA] ATCTCAGGGCAGCTGGAAGCCTTGGCGCCCCTCCCTGTTGCTACCTCTTGCGTTCCTCCA[GA]TCACAGGGCCGCGT GTAGCCTCTGGCACGACCTATGCATCCGTCCCAGGCGCCCGGCTGT ctg11 15
63198 I A GTCAATGAATGAGGTATTCTTTATTTTTTTTTTCTCCTCCAGGGC
63198 P T A CGCGCCGAGGTCATCACCAGGAAATATGGY
63198 P G A ATGACGTGGCAGACGCATCACCAGGAAATATGGY
63198 T T A AACACCATATTTCCTGGTGATGACCCTGGAGGAGAAAAAAAAAATAAAGAATACCTCATTCATTGACCA
63198 T G A AACACCATATTTCCTGGTGATGCCCCTGGAGGAGAAAAAAAAAATAAAGAATACCTCATTCATTGACCA
63198 IS [TG] TACCCACTAAGTAGTGGTCAATGAATGAGGTATTCTTTATTTTTTTTTTCTCCTCCAGGG[TG]CATCACCAGGAAATAT GGTGTTTGGCTGTAAGCCCCAGTGGAGACTATGTTGTATCATCG ctg22fin11 22
63201 I A CCCAAAAGTTTGGGTCTTGGAAGGCAATGGGT
63201 P G A ATGACGTGGCAGACGAAAGTGGTGCAGCGY
63201 P C A CGCGCCGAGGCAAAGTGGTGCAGCGY
63201 T G A ATCTCGCTGCACCACTTTCCCCATTGCCTTCCAAGACCCAAACTTTTGGGGG
63201 T C A ATCTCGCTGCACCACTTTGCCCATTGCCTTCCAAGACCCAAACTTTTGGGGG
63201 IS [GC] GTCTTTTTCTTTTGCCTTAAGAAAGAACCCCCAAAAGTTTGGGTCTTGGAAGGCAATGGG[GC]AAAGTGGTGCAGCGA GATGATTCTTTTCTCCTCCGGCATTTCTGCCAAGTTTGAAGGAAT ctg22fin3 22
63244 I A CTGAAGAGTTCTACATACATTAGTCTTCAAGGTTCTTCTCTGGGCT
63244 P G A ATGACGTGGCAGACGTTTCCCATGCAGCTCY
63244 P A A CGCGCCGAGGATTTCCCATGCAGCTCY
63244 T G A CAGAGAGCTGCATGGGAAACGCCCAGAGAAGAACCTTGAAGACTAATGTATGTAGAACTCTTCAGCT
63244 T A A CAGAGAGCTGCATGGGAAATGCCCAGAGAAGAACCTTGAAGACTAATGTATGTAGAACTCTTCAGCT
63244 IS [GA] GGCCGATAGATCCAGCTGAAGAGTTCTACATACATTAGTCTTCAAGGTTCTTCTCTGGGC[GA]TTTCCCATGCAGCTC TCTGGTAGCTGGGGAATGATTTGTGAGTGCTTCCTCTGCTCCACA ctg15815 X
63245 I A GGTCGTTCTTCTCACGCAGTTGCTGAGGATGT
63245 P A A CGCGCCGAGGACATTCCGGAGACACAY
63245 P C A ATGACGTGGCAGACCCATTCCGGAGACACAY
63245 T A A ACCTTGTGTCTCCGGAATGTCATCCTCAGCAACTGCGTGAGAAGAACGACCTT
63245 T C A ACCTTGTGTCTCCGGAATGGCATCCTCAGCAACTGCGTGAGAAGAACGACCTT
63245 IS [AC] CATACTGGGAAGAGAGAAAAAAGGCCAAAGGTCGTTCTTCTCACGCAGTTGCTGAGGATG[AC]CATTCCGGAGACACA AGGTTAAGGAAGGGGTCAGGGCCCACCAGAAAGGAGGAAGGAGCC ctg25099 7
63295 I A TTCTTTTTTTGCAACATTGAACTCAAAACACAGTATCAACTGAAAAATATTAATTATT
63295 P C A ATGACGTGGCAGACCAGTAATTGGTCGATATCACTY
63295 P A A CGCGCCGAGGAAGTAATTGGTCGATATCACTTY
63295 T C A TCTAAAGTGATATCGACCAATTACTGATAATTAATATTTTTCAGTTGATACTGTGTTTTGAGTTCAATGTTGCAAAAAAA GAAAG
63295 T A A TCTAAAGTGATATCGACCAATTACTTATAATTAATATTTTTCAGTTGATACTGTGTTTTGAGTTCAATGTTGCAAAAAAAG AAAG
63295 IS [CA] TCTTTCTTTTTTTGCAACATTGAACTCAAAACACAGTATCAACTGAAAAATATTAATTAT[CA]AGTAATTGGTCGATATCA CTTTAGATTTTTTATTTCTTTATAATATTTATGATTATGTCT ctg25099 7
63317 I S TTGTGCCAGGATTCCCTGATTTTTCACATGTT
63317 P T S CGCGCCGAGGATCTTTTTCCAGTTTTGATTAAGAY
63317 P C S ATGACGTGGCAGACGTCTTTTTCCAGTTTTGATTAAGAY
63317 T T S GTTCTCTTAATCAAAACTGGAAAAAGATACATGTGAAAAATCAGGGAATCCTGGCACAAAT
63317 T C S GTTCTCTTAATCAAAACTGGAAAAAGACACATGTGAAAAATCAGGGAATCCTGGCACAAAT
63321 IS [TC] AAAAGAGTGATGAAATTATGAGGTGGAAAAAATGTTCTCTTAATCAAAACTGGAAAAAGA[TC]ACATGTGAAAAATCAG GGAATCCTGGCACAAATATACTAAATATCAATAAAATAATTTTT
63321 I S GCCTCTGGAACAACCAGCCTGTCTGCA
63321 P A S CGCGCCGAGGTTTTCTTTCTCCCCTTTCATY
63321 P G S ATGACGTGGCAGACCTTTCTTTCTCCCCTTTCATY
63321 T A S TGAGATGAAAGGGGAGAAAGAAAAGCAGACAGGCTGGTTGTTCCAGAGGCCA
63321 T G S TGAGATGAAAGGGGAGAAAGAAAGGCAGACAGGCTGGTTGTTCCAGAGGCCA
63321 IS [AG] CTAATTGCTGATCTTCTAAAATGAGAAACTCAAACAGTGAGATGAAAGGGGAGAAAGAAA[AG]GCAGACAGGCTGGTT GTTCCAGAGGCCAGGTCAAGAATGAGGAGATAATAGCAGTGCTCC ctg19247 7
63435 I S TGGGAAAGAATTGTCTCTGCTGATGGATTGAAAGAA
63435 P A S CGCGCCGAGGTCTGAGGAAGTCACCGY
63435 P G S ATGACGTGGCAGACCCTGAGGAAGTCACCGY
63435 T A S AAATCGGTGACTTCCTCAGATCTTTCAATCCATCAGCAGAGACAATTCTTTCCCAAA
63435 T G S AAATCGGTGACTTCCTCAGGTCTTTCAATCCATCAGCAGAGACAATTCTTTCCCAAA
63435 IS [AG] GTTGCCCATATACGTAAGAAAAGGAGACCTATCAATGCTGTAAATCGGTGACTTCCTCAG[AG]TCTTTCAATCCATCAG CAGAGACAATTCTTTCCCAAATATTTGTACAATCTCAGCACATT MULTIPLE MULTIPLE
63446 I S GGAAGGTGTCCCCATCCCTTCTGCCCA
63446 P G S ATGACGTGGCAGACCGAGCATGGTGAGCTY
63446 P A S CGCGCCGAGGTGAGCATGGTGAGCTY
63446 T G S TTGCAGCTCACCATGCTCGGGGCAGAAGGGATGGGGACACCTTCCAA
63446 T A S TTGCAGCTCACCATGCTCAGGGCAGAAGGGATGGGGACACCTTCCAA
63446 IS [GA] CATGTGTGAAGCTGCCCTGGCTAAGGTGAACCTTCCAGAGACTTGCAGCTCACCATGCTC[GA]GGGCAGAAGGGATG GGGACACCTTCCAAAAAACCTGCCCCATTCTGGCAGCCTCAGCTGG MULTIPLE MULTIPLE

FIGURE 129D

63447 I		A	TCGGCTGTTGAGTGGCCTGGGTCAT			
63447 P	G	A	ATGACGTGGCAGACGGGACAGTGTTTTCATGGY			
63447 P	C	A	CGCGCCGAGGCGGACAGTGTTTTCATGGY			
63447 T	G	A	TTAGCCATGAAAACACTGTCCCTGACCCAGGCCACTCAACAGCCGACA			
63447 T	C	A	TTAGCCATGAAAACACTGTCCGTGACCCAGGCCACTCAACAGCCGACA			
63447 IS	[GC]		CCTGCCCCATTCTGGCAGCCTCAGCTGGACTTACTGTCGGCTGTTGAGTGGCCTGGGTCA[GC]GGACAGTGTTTTCA TGGCTAAGAACTCCACTCCAGACACTGAGACTGAGAAACATCCCCA	ctg832	11	
63470 I		A	CCCTGATTCCTCCTGTAGCTTATAGCTCAGATTATAACAGACAACAT			
63470 P	A	A	CGCGCCGAGGAAGCTTAATAGAGGTCACAGAY			
63470 P	G	A	ATGACGTGGCAGACGAGCTTAATAGAGGTCACAGY			
63470 T	A	A	AGTTTCTGTGACCTCTATTAAGCTTTGTTGTCTGTTATAATCTGAGCTATAAGCTACAGGAGGAATCAGGGTG			
63470 T	G	A	AGTTTCTGTGACCTCTATTAAGCTCTGTTGTCTGTTATAATCTGAGCTATAAGCTACAGGAGGAATCAGGGTG			
63470 IS	[AG]		TTTTTCTGATCCCACCCTGATTCCTCCTGTAGCTTATAGCTCAGATTATAACAGACAACA[AG]AGCTTAATAGAGGTCA CAGAAACTTCCAGTTCTCACTTTGCTGTGTGTACCTTGCATTTAAA	ctg832	11	
63474 I		A	TCAGCCCACTGCAAAACATCAGGTCTCCCA			
63474 P	C	A	ATGACGTGGCAGACCTCTTCATCAGACTTTTATTTCATTY			
63474 P	T	A	CGCGCCGAGGTTCTTCATCAGACTTTTATTTCATTY			
63474 T	C	A	GCAAAATGAAATAAAAGTCTGATGAAGAGGGGAGACCTGATGTTTTGCAGTGGGCTGAGA			
63474 T	T	A	GCAAAATGAAATAAAAGTCTGATGAAGAAGGGAGACCTGATGTTTTGCAGTGGGCTGAGA			
63474 IS	[CT]		TAAGGTTGTATAGCCTTGTGGAACTTTCTTCTCAGCCCACTGCAAAACATCAGGTCTCCC[CT]TCTTCATCAGACTTTT ATTTCATTTTGCTTCCTAAAAAATGAATAACATTTTTGCATGAA	ctg832	11	
63501 I		S	CATGAATCTAGTGGTCATCATTTTCTTTGTAATTTATTTTTATCTTACTGGGTACT			
63501 P	T	S	CGCGCCGAGGATAGACTTGGAACCCTACAY			
63501 P	C	S	ATGACGTGGCAGACGTAGACTTGGAACCCTACAY			
63501 T	T	S	AGCTTGTAGGGTTCCAAGTCTATGTACCCAGTAAGATAAAAATAAATTACAAAGAAAATGATGACCACTAGATTCATGT T			
63501 T	C	S	AGCTTGTAGGGTTCCAAGTCTACGTACCCAGTAAGATAAAAATAAATTACAAAGAAAATGATGACCACTAGATTCATGT T			
63501 IS	[TC]		GTATTTTATGCGAATGCCACTGCAATACTAAATAATCCAGCTTGTAGGGTTCCAAGTCTA[TC]GTACCCAGTAAGATAA AAATAAATTACAAAGAAAATGATGACCACTAGATTCATGTTAGA	ctg45	8	
63505 I		A	GATCCTATTCCTGATGTTTTACAGAGAATACAAGTCATTTATATAAAAATGCAATGA			
63505 P	C	A	ATGACGTGGCAGACCGAATGGGGTCAGTTACY			
63505 P	T	A	CGCGCCGAGGTGAATGGGGTCAGTTACTY			
63505 T	C	A	TTTAAGTAACTGACCCCATTCGCATTGCATTTTTATATAAATGACTTGTATTCTCTGTAAAACATCAGGAATAGGATCCT			
63505 T	T	A	TTTAAGTAACTGACCCCATTCACATTGCATTTTTATATAAATGACTTGTATTCTCTGTAAAACATCAGGAATAGGATCCT			
63505 IS	[CT]		TCAGGATCCTATTCCTGATGTTTTACAGAGAATACAAGTCATTTATATAAAAATGCAATG[CT]GAATGGGGTCAGTTACT TAAAAGAAATTATTGTTTCTGCTGTCATGTGTTCTACTTGGTG	MULTIPLE	MULTIPLE	
63553 I		A	ACATCTTACCTTCTCCTCAGTATTTTGAACAACAGTGATAGTGTAATGTCCC			
63553 P	T	A	CGCGCCGAGGTACCTCTGATGACTGCTCY			
63553 P	G	A	ATGACGTGGCAGACGACCTCTGATGACTGCTY			
63553 T	T	A	GATAGAGCAGTCATCAGAGGTAGGACATTACACTATCACTGTTGTTCAAAATACTGAGGAGAAGGTAAGATGTCC			
63553 T	G	A	GATAGAGCAGTCATCAGAGGTCGGACATTACACTATCACTGTTGTTCAAAATACTGAGGAGAAGGTAAGATGTCC			
63553 IS	[TG]		GCAGTAAGGACATCTTACCTTCTCCTCAGTATTTTGAACAACAGTGATAGTGTAATGTCC[TG]ACCTCTGATGACTGCT CTATCAAATTACCAGCAGTATTTATGTTCCAGAGTAACCCCTGG	ctg16291	9	
63559 I		S	CAGTTTAGGTGATTTGGAAGGCTGAGAAGGTACTTGTCTAGAT			
63559 P	C	S	ATGACGTGGCAGACGGGTGCACTTCTCTTTAAGY			
63559 P	T	S	CGCGCCGAGGAGGTGCACTTCTCTTTAAGY			
63559 T	C	S	TGTGCTTAAAGAGAAGTGCACCCTCTAGACAAGTACCTTCTCAGCCTTCCAAATCACCTAAACTGCG			
63559 T	T	S	TGTGCTTAAAGAGAAGTGCACCTTCTAGACAAGTACCTTCTCAGCCTTCCAAATCACCTAAACTGCG			
63559 IS	[CT]		TAGGATCGTTCACCAGCCCAGAACTGACAGAACATAACTGTGCTTAAAGAGAAGTGCACC[CT]TCTAGACAAGTACCT TCTCAGCCTTCCAAATCACCTAAACTGCGGAAGGCCAGATGGAAT	ctg25099	7	
63596 I		S	GATGGCTGCTTCCTTTGGGTGTGTTGCAGT			
63596 P	G	S	CGCGCCGAGGCCTTTCTTTGGTAATATGTCAGY			
63596 P	C	S	ATGACGTGGCAGACGCTTTCTTTGGTAATATGTCAGY			
63596 T	G	S	TAGACTGACATATTACCAAAGAAAGGCTGCAACACACCCAAAGGAAGCAGCCATCCT			
63596 T	C	S	TAGACTGACATATTACCAAAGAAAGCCTGCAACACACCCAAAGGAAGCAGCCATCCT			
63596 IS	[GC]		TTGCTCTTTGAAAATTCTCTTCTTTAGAGTCTTAATAGACTGACATATTACCAAAGAAAG[GC]CTGCAACACACCCAAAG GAAGCAGCCATCCTTCAGTGGGAGGTGGCTAGATGTTCTCTAT	ctg13740	5	
63597 I		A	TCATGTTAATTCTGTTTTAGGATTGGGCACAGCGT			
63597 P	G	A	ATGACGTGGCAGACGGCTTGGTGTCTTGGY			
63597 P	A	A	CGCGCCGAGGAGCTTGGTGTCTTGGAY			
63597 T	G	A	TAATTCCAAGACACCAAGCCCGCTGTGCCCAATCCTAAAACAGAATTAACATGAAA			
63597 T	A	A	TAATTCCAAGACACCAAGCTCGCTGTGCCCAATCCTAAAACAGAATTAACATGAAA			
63597 IS	[GA]		AATCAATTACAAGACAAGTTAGAATTTCATGTTAATTCTGTTTTAGGATTGGGCACAGCG[GA]GCTTGGTGTCTTGGAA TTAGCCTGCTTCCTAGATGCTCTCCAAACTACAAATTTATGCCT			
63598 I		S	CAAGCAAGGACCGGGGACACTATCTCAATCTGAAC			
63598 P	A	S	CGCGCCGAGGTGCATTCAGGCATAAATTTGY			
63598 P	C	S	ATGACGTGGCAGACGGCATTCAGGCATAAATTTGY			
63598 T	A	S	ACTACAAATTTATGCCTGAATGCATTCAGATTGAGATAGTGTCCCCGGTCCTTGCTTGCT			
63598 T	C	S	ACTACAAATTTATGCCTGAATGCCTTCAGATTGAGATAGTGTCCCCGGTCCTTGCTTGCT			
63598 IS	[AC]		TGTCTTGGAATTAGCCTGCTTCCTAGATGCTCTCCAAACTACAAATTTATGCCTGAATGC[AC]TTCAGATTGAGATAGT GTCCCCGGTCCTTGCTTGCTTTCTATCTGCATTTCTGGCTCTGA	ctg16114	X	
63640 I		A	GGAATGCTACCAAGAACTTAATGTGTAACTTACGAGTTAAAGTGCATAACTCAA			
63640 P	C	A	ATGACGTGGCAGACCGGAAAGTGTGAAAAGCY			
63640 P	T	A	CGCGCCGAGGTGGAAAGTGTGAAAAGCCY			
63640 T	C	A	ATATGGCTTTTCACACTTTCCGTGAGTTATGCACTTTAACTCGTAAGTTACACATTAAGTTCTTGGTAGCATTCCCA			
63640 T	T	A	ATATGGCTTTTCACACTTTCCATGAGTTATGCACTTTAACTCGTAAGTTACACATTAAGTTCTTGGTAGCATTCCCA			
63640 IS	[CT]		TCTTTTGGGAATGCTACCAAGAACTTAATGTGTAACTTACGAGTTAAAGTGCATAACTCA[CT]GGAAAGTGTGAAAAGC CATATACAATTTTATACTTCTGAGAGTCAAGAGGGTTTAGTGAG	ctg832	11	
63723 I		A	GGACTTTAACTTTCCTATTCTGCAGGGGTGTTT			
63723 P	A	A	CGCGCCGAGGACTGTTCTGTAATTTTTAAAGCTCY			
63723 P	C	A	ATGACGTGGCAGACCCTGTTCTGTAATTTTTAAAGCTY			
63723 T	A	A	TACTGAGCTTTAAAAATTACAGAACAGTAACACCCCTGCAGAATAGGAAAGTTAAAGTCCCT			
63723 T	C	A	TACTGAGCTTTAAAAATTACAGAACAGGAACACCCCTGCAGAATAGGAAAGTTAAAGTCCCT			
63723 IS	[AC]		AAAGATTACTAATTGTGTACAATTTAAGGGACTTTAACTTTCCTATTCTGCAGGGGTGTT[AC]CTGTTCTGTAATTTTTA AAGCTCAGTACTTACAGGCAAAATGTTGTATGAAGGAATTTAT	ctg17004	X	
63733 I		A	CAGGTTCAAATGACTGAATGTACTCAGACCTGTTTTCTCATCTGTAAAAAA			
63733 P	T	A	CGCGCCGAGGTGATACTACAATGGGGCTY			
63733 P	C	A	ATGACGTGGCAGACCGATACTACAATGGGGCY			

FIGURE 129D

63733 T	T	A	TTTCAGCCCCATTGTAGTATCATTTTTACAGATGAGAAAACAGGTCTGAGTACATTCAGTCATTTGAACCTGGT			
63733 T	C	A	TTTCAGCCCCATTGTAGTATCGTTTTTACAGATGAGAAAACAGGTCTGAGTACATTCAGTCATTTGAACCTGGT			
63733 IS	[TC]		TCCTGTTCACCAGGTTCAAATGACTGAATGTACTCAGACCTGTTTTCTCATCTGTAAAAA[TC]GATACTACAATGGGGC TGAAAGAATCAAAGGTCTCTTTTATCTCTGATCTCATTATTCCT	ctg17004	X	
63735 I		S	TCTTTAGGGTTATTAAAGGTTGAATGGGGGCTTTATTCAAAT			
63735 P	G	S	ATGACGTGGCAGACCTCTATTTTATAAGCCTTGGAAGY			
63735 P	T	S	CGCGCCGAGGATCTATTTTATAAGCCTTGGAAGTY			
63735 T	G	S	TTCTACTTCCAAGGCTTATAAAATAGAGTTTGAATAAAGCCCCCATTCAACCTTTAATAACCCTAAAGATT			
63735 T	T	S	TTCTACTTCCAAGGCTTATAAAATAGATTTTGAATAAAGCCCCCATTCAACCTTTAATAACCCTAAAGATT			
63735 IS	[GT]		GGGTGTCAGATTAGGTTATCTTCTAAATATCCATTCTACTTCCAAGGCTTATAAAATAGA[GT]TTTGAATAAAGCCCCCA TTCAACCTTTAATAACCCTAAAGATTAATTTGCTCCTTCTGCA	ctg15508	17	
63742 I		S	GAGTTAGTCTGATAACCAACTCGAAAATGATTTCAAGTCAGAAAGGTCCT			
63742 P	C	S	ATGACGTGGCAGACGTAGTATGACTTAAGCAAAATTCTY			
63742 P	T	S	CGCGCCGAGGATAGTATGACTTAAGCAAAATTCTGY			
63742 T	C	S	TTACCAGAATTTTGCTTAAGTCATACTACGGACCTTTCTGACTTGAAATCATTTTCGAGTTGGTTATCAGACTAACTCTC			
63742 T	T	S	TTACCAGAATTTTGCTTAAGTCATACTATGGACCTTTCTGACTTGAAATCATTTTCGAGTTGGTTATCAGACTAACTCTC			
63742 IS	[CT]		AAAGTGAGTCTGACTTATGTACTTGATTTTGTTTACCAGAATTTTGCTTAAGTCATACTA[CT]GGACCTTTCTGACTTGA AATCATTTTCGAGTTGGTTATCAGACTAACTCTCCTAACTAGT	ctg14243	19	
63760 I		A	ACAAATGAAAGTAATGTGATGTTATTTTTATAACACATTAATAACAATTTAAACCTTGGTC			
63760 P	G	A	ATGACGTGGCAGACGTGCCCATTGCTGTAGY			
63760 P	T	A	CGCGCCGAGGTTGCCCATTGCTGTAGY			
63760 T	G	A	CCAGCTACAGCAATGGGCACACCAAGGTTTAAATTGTTATTAATGTGTTATAAAAATAACATCACATTACTTTCATTTGT			
63760 T	T	A	CCAGCTACAGCAATGGGCAAACCAAGGTTTAAATTGTTATTAATGTGTTATAAAAATAACATCACATTACTTTCATTTGT			
63760 IS	[GT]		ACAAATGAAAGTAATGTGATGTTATTTTTATAACACATTAATAACAATTTAAACCTTGGT[GT]TGCCCATTGCTGTAGCT GGTACACTGAAGCATATGCTCTCCATGCTTTTCTGATAGCATT	ctg17207	19	
63794 I		A	TGTCCCCCTTCATCTTAAGTATTCATTCCCAAACATA			
63794 P	T	A	CGCGCCGAGGTGTAAGATTATCCCTTGTTTTAACY			
63794 P	C	A	ATGACGTGGCAGACCGTAAGATTATCCCTTGTTTTAACY			
63794 T	T	A	AAAGGTTAAAACAAGGGATAATCTTACAATGTTTGGGAATGAATACTTAAGATGAAGGGGGACAGA			
63794 T	C	A	AAAGGTTAAAACAAGGGATAATCTTACGATGTTTGGGAATGAATACTTAAGATGAAGGGGGACAGA			
63794 IS	[TC]		GTTAGTAACTGACATGAATTTTTCTGTCCCCCTTCATCTTAAGTATTCATTCCCAAACAT[TC]GTAAGATTATCCCTTGT TTTAACCTTTGGGATACTTGGATTTTAATACACAAAAACCAAG	ctg16031	17	
63816 I		A	CGCTGAGATCCTTGGACAAAAGGAAGGCAGAGT			
63816 P	G	A	ATGACGTGGCAGACGAGGAGAAAGGGCAAGAY			
63816 P	A	A	CGCGCCGAGGAAGGAGAAAGGGCAAGAY			
63816 T	G	A	TTTCTCTTGCCCTTTCTCCTCCTCTGCCTTCCTTTTGTCCAAGGATCTCAGCGTT			
63816 T	A	A	TTTCTCTTGCCCTTTCTCCTTCTCTGCCTTCCTTTTGTCCAAGGATCTCAGCGTT			
63816 IS	[GA]		AAACTCACAGAGGCTGCAAACCAAACAACGCTGAGATCCTTGGACAAAAGGAAGGCAGAG[GA]AGGAGAAAGGGCAA GAGAAACTGACAGGCCTAACAGAGAAGGGTCCCTTCTGTGGGCAAA	ctg22fin4	22	
63859 I		A	GGTCTGAAGGAAATGTAGAAACAATCAAAATAGAGCTAGGAGGGCA			
63859 P	C	A	ATGACGTGGCAGACCGGTTCTGGAGGTGGY			
63859 P	T	A	CGCGCCGAGGTGGTTCTGGAGGTGGY			
63859 T	C	A	TCCACCACCTCCAGAACCGGCCCTCCTAGCTCTATTTTGATTGTTTCTACATTTCCTTCAGACCTC			
63859 T	T	A	TCCACCACCTCCAGAACCAGCCCTCCTAGCTCTATTTTGATTGTTTCTACATTTCCTTCAGACCTC			
63859 IS	[CT]		GCAGGCGGGCAGGGAGGTCTGAAGGAAATGTAGAAACAATCAAAATAGAGCTAGGAGGGC[CT]GGTTCTGGAGGTG GTGGAAGAACAGACTGATTTGCTGGTTTGGCTGTGGCCATCAGGGAG	ctg19247	7	
63906 I		S	AGAGCTGATTTAATGTTAGTGTTAAACGTGGTAATAGAAAAGGCT			
63906 P	T	S	CGCGCCGAGGAATGTCAGTAAGCTTGAATACAY			
63906 P	C	S	ATGACGTGGCAGACGATGTCAGTAAGCTTGAATACAY			
63906 T	T	S	TAGCTGTATTCAAGCTTACTGACATTGCCTTTTCTATTACCACGTTTAACACTAACATTAAATCAGCTCTTC			
63906 T	C	S	TAGCTGTATTCAAGCTTACTGACATCGCCTTTTCTATTACCACGTTTAACACTAACATTAAATCAGCTCTTC			
63906 IS	[TC]		TGTTATTGAGGGATAATGTAGTGTTTAATTACATATAGCTGTATTCAAGCTTACTGACAT[TC]GCCTTTTCTATTACCAC GTTTAACACTAACATTAAATCAGCTCTTCAAATCAAATCCCCT			
63908 I		S	CTCCTTCCAGAGATAAATTCTCAAGCTACTTCCACAAAACTGTAAAAAGGA			
63908 P	A	S	CGCGCCGAGGTAGAAATATCACTCAAGATTATCTAGTY			
63908 P	G	S	ATGACGTGGCAGACCAGAAATATCACTCAAGATTATCTAGY			
63908 T	A	S	TTGGACTAGATAATCTTGAGTGATATTTCTACCTTTTTACAGTTTTGTGGAAGTAGCTTGAGAATTTATCTCTGGAAGG AGAA			
63908 T	G	S	TTGGACTAGATAATCTTGAGTGATATTTCTGCCTTTTTACAGTTTTGTGGAAGTAGCTTGAGAATTTATCTCTGGAAGG AGAA			
63908 IS	[AG]		CTCTGTCTTCCTGTCTGTGAAACAAGGGAATTGGACTAGATAATCTTGAGTGATATTTCT[AG]CCTTTTTACAGTTTTGT GGAAGTAGCTTGAGAATTTATCTCTGGAAGGAGAAAGGGCTTT	ctg17403	17	
63913 I		S	ACAAAGGTGATTAGAAGGCACTAAATTTTCTCTACATAGTGATCTA			
63913 P	G	S	ATGACGTGGCAGACCCTTTTCTAATTGGTAGCATAAAGY			
63913 P	A	S	CGCGCCGAGGTCTTTTCTAATTGGTAGCATAAAGY			
63913 T	G	S	GCAACTTTATGCTACCAATTAGAAAAGGAGATCACTATGTAGAGAAAATTTAGTGCCTTCTAATCACCTTTGTAT			
63913 T	A	S	GCAACTTTATGCTACCAATTAGAAAAGAAGATCACTATGTAGAGAAAATTTAGTGCCTTCTAATCACCTTTGTAT			
63913 IS	[GA]		GTTTGGTTTTGAATTAGGATCACTGACAGTTCAGCAACTTTATGCTACCAATTAGAAAAG[GA]AGATCACTATGTAGAG AAAATTTAGTGCCTTCTAATCACCTTTGTATACTTGAATTTAGT	ctg15944	11	
63922 I		A	CCTTGTAAAAATCTCTTTGCCCAAGCTTGGCTT			
63922 P	A	A	CGCGCCGAGGATAGAGAGGCAATGAGGTY			
63922 P	G	A	ATGACGTGGCAGACGTAGAGAGGCAATGAGGTY			
63922 T	A	A	GAAAACCTCATTGCCTCTCTATAGCCAAGCTTGGGCAAAGAGATTTTTACAAGGGA			
63922 T	G	A	GAAAACCTCATTGCCTCTCTACAGCCAAGCTTGGGCAAAGAGATTTTTACAAGGGA			
63922 IS	[AG]		CTCAGGAACAGCCACCCCATCTATTATCCCTTGTAAAAATCTCTTTGCCCAAGCTTGGCT[AG]TAGAGAGGCAATGAG GTTTTCCAACCCGTCACTTCTCGCTGCTCATGAGGGTCAGCATGT	ctg15944	11	
63943 I		S	GATTGTGGAGAACCTAAAAGGCATAAGACTATATGAAAGTAAAAACTTA			
63943 P	G	S	ATGACGTGGCAGACCAGGAATAACAATCTGAAACACY			
63943 P	A	S	CGCGCCGAGGTAGGAATAACAATCTGAAACACTY			
63943 T	G	S	TGTTAGTGTTTCAGATTGTTATTCCTGAAGTTTTTACTTTCATATAGTCTTATGCCTTTTAGGTTCTCCACAATCAT			
63943 T	A	S	TGTTAGTGTTTCAGATTGTTATTCCTAAAGTTTTTACTTTCATATAGTCTTATGCCTTTTAGGTTCTCCACAATCAT			
63943 IS	[GA]		CTGCTCTTCTCACTTCCCAGGGAGATCAGTGGTTTGTTAGTGTTTCAGATTGTTATTCCT[GA]AAGTTTTTACTTTCATA TAGTCTTATGCCTTTTAGGTTCTCCACAATCATTTAGGGTTCA	ctg832	11	
63944 I		A	GTCCAAAGGTAGGCTACAGAGGGGCCTCT			
63944 P	A	A	CGCGCCGAGGAGCACTGACAGGATGAAY			

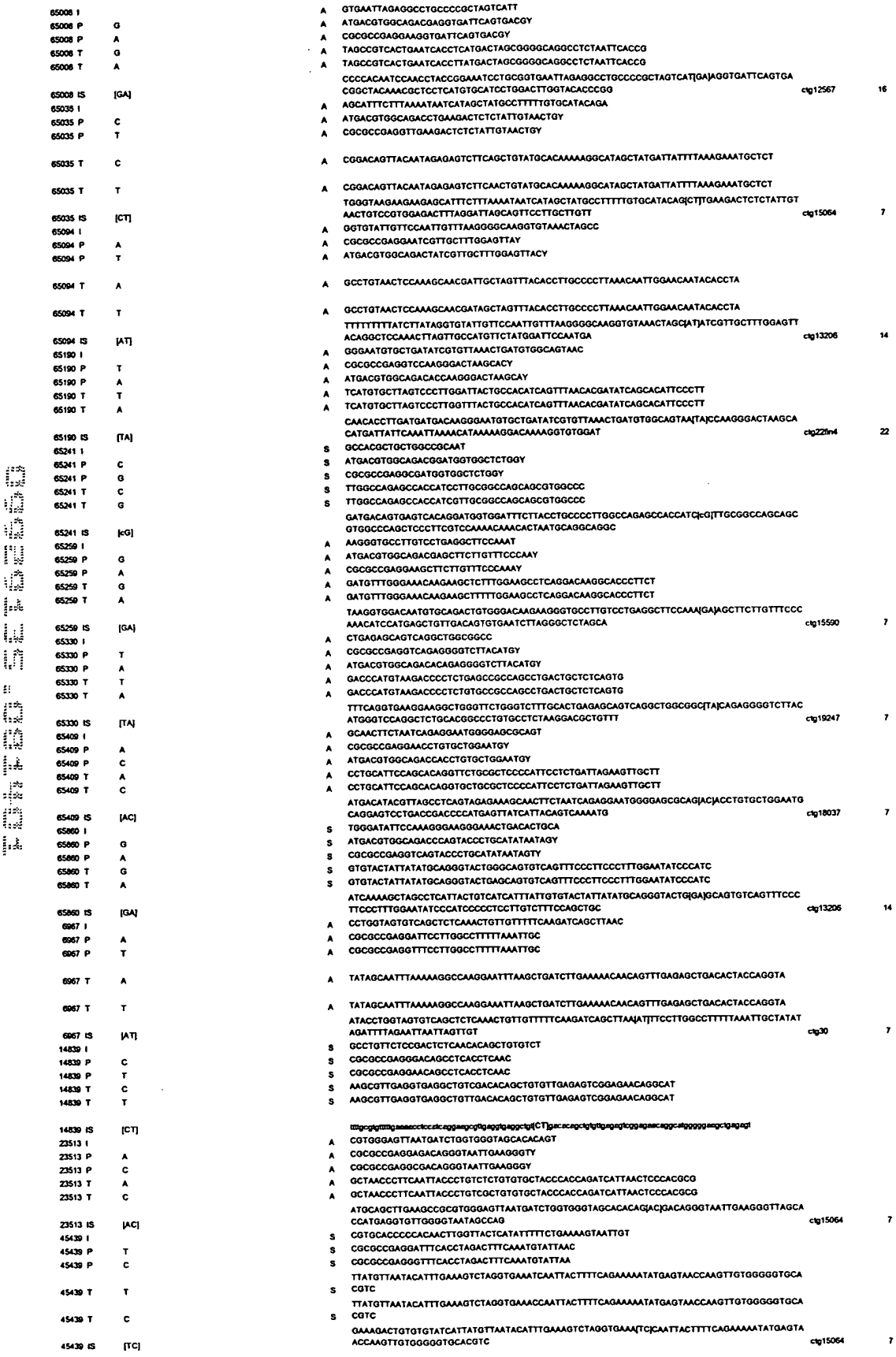
FIGURE 129D

63944 P	G	A	ATGACGTGGCAGACGGCACTGACAGGATGAY			
63944 T	A	A	GTGCTTCATCCTGTCAGTGCTGAGGCCCCTCTGTAGCCTACCTTTGGACCT			
63944 T	G	A	GTGCTTCATCCTGTCAGTGCCGAGGCCCCTCTGTAGCCTACCTTTGGACCT			
63944 tS	[AG]		CAGACCACCTGGGAACTTTTAACTAATGCCAGGTCCAAAGGTAGGCTACAGAGGGGCCTC[AG]GCACTGACAGGATG AAGCACGATGATGGCTGCGTGTACCACATAAGGTAGAAGCCGTGTG	ctg632	11	
63966 I		A	AGGAACATGCCATGTTCCAGAAAATGTCATGTGGGAATAA			
63966 P	T	A	CGCGCCGAGGTGGAAGCACTACGATATCTY			
63966 P	C	A	ATGACGTGGCAGACCGGAAGCACTACGATATCY			
63966 T	T	A	TTTAAGATATCGTAGTGCTTCCATATTCCCACATGACATTTTCTGGAACATGGCATGTTCCTTT			
63966 T	C	A	TTTAAGATATCGTAGTGCTTCCGTATTCCCACATGACATTTTCTGGAACATGGCATGTTCCTTT			
63966 tS	[TC]		AAAAAATGGTCTGTAGGCCAAAGGAACATGCCATGTTCCAGAAAATGTCATGTGGGAATA[TC]GGAAGCACTACGATA TCTTAAACTATTTAAATTCAAAGAAAAAGATTTAGGAATCTAAGA	ctg25002	17	
63977 I		S	CCATCAGCTCTGAGCTTCCATGCATACACT			
63977 P	C	S	ATGACGTGGCAGACGTGACCAAGAATCCTCTTACY			
63977 P	T	S	CGCGCCGAGGATGACCAAGAATCCTCTTACY			
63977 T	C	S	GCTAGTAAGAGGATTCTTGGTCACGTGTATGCATGGAAGCTCAGAGCTGATGGAA			
63977 T	T	S	GCTAGTAAGAGGATTCTTGGTCATGTGTATGCATGGAAGCTCAGAGCTGATGGAA			
63977 tS	[CT]		AGCCTACTAAGTACAAGCAAGTTCTTTATATCTAAACGCTAGTAAGAGGATTCTTGGTCA[CT]GTGTATGCATGGAAGC TCAGAGCTGATGGAAATATTAGCAAGCTTTGATAATTTTGTTTA	ctg25002	17	
64010 I		S	CCGGAAGGCTGGGAGGATTGAGACCTT			
64010 P	C	S	ATGACGTGGCAGACGTATCTGAATCAAGTCGTATGGY			
64010 P	G	S	CGCGCCGAGGCTATCTGAATCAAGTCGTATGGY			
64010 T	C	S	TTTTCCATACGACTTGATTCAGATACAGGTCTCAATCCTCCCAGCCTTCCGGCT			
64010 T	G	S	TTTTCCATACGACTTGATTCAGATAGAGGTCTCAATCCTCCCAGCCTTCCGGCT			
64010 tS	[CG]		CTTGTCTTTTCTCATTAAGCCCCATCTTCAATCCCTTTTCCATACGACTTGATTCAGATA[CG]AGGTCTCAATCCTCCCA GCCTTCCGGCTCTTGAGGGCATTTCAGCAGGGTTTGAACACAG	ctg25002	17	
64021 I		A	CTTTTTCTGGTAGTCTCTTGCTGAAATATCAACATAACTCTCAATT			
64021 P	G	A	ATGACGTGGCAGACGCAGAACAAGAAAGCTTAAGY			
64021 P	A	A	CGCGCCGAGGACAGAACAAGAAAGCTTAAGGY			
64021 T	G	A	TCAGCCTTAAGCTTTCTTGTTCTGCATTGAGAGTTATGTTGATATTTCAGCAAGAGACTACCAGAAAAAGTC			
64021 T	A	A	TCAGCCTTAAGCTTTCTTGTTCTGTATTGAGAGTTATGTTGATATTTCAGCAAGAGACTACCAGAAAAAGTC			
64021 tS	[GA]		CTGAACAATTAATGACTTTTTCTGGTAGTCTCTTGCTGAAATATCAACATAACTCTCAAT[GA]CAGAACAAGAAAGCTTA AGGCTGAATCCAAAAATAATACACTATAGAAAATAGCAACCAA	ctg17207	19	
64142 I		A	GCTGTCAGGGCTACATTGGTGAAATGTATTCTCTGACATGA			
64142 P	T	A	CGCGCCGAGGTCTGGGAAAATAAATTCTCACTY			
64142 P	C	A	ATGACGTGGCAGACCCTGGGAAAATAAATTCTCACY			
64142 T	T	A	TTATAGTGAGAATTTATTTTCCCAGACATGTCAGAGAATACATTTCACCAATGTAGCCCTGACAGCAA			
64142 T	C	A	TTATAGTGAGAATTTATTTTCCCAGGCATGTCAGAGAATACATTTCACCAATGTAGCCCTGACAGCAA			
64142 tS	[TC]		GTCCCTGAGGACCAGCCTTTGCTGTCAGGGCTACATTGGTGAAATGTATTCTCTGACATG[TC]CTGGGAAAATAAATT CTCACTATAAATTAAAATTACTATTGATTATCTTGCTCATCAGTA	ctg2846	11	
64388 I		A	GGAAACGCATGTGTGCAGGAGAAGAGCCTAAT			
64388 P	A	A	CGCGCCGAGGAGGCAGTGTGTGACTY			
64388 P	G	A	ATGACGTGGCAGACGGGCAGTGTGTGACTY			
64388 T	A	A	TGCCAGTCACACACTGCCTTTAGGCTCTTCTCCTGCACACATGCGTTTCCAT			
64388 T	G	A	TGCCAGTCACACACTGCCCTTAGGCTCTTCTCCTGCACACATGCGTTTCCAT			
64388 tS	[AG]		ATGGGGCACAATGAGAACAAGTTGATGATGGAAACGCATGTGTGCAGGAGAAGAGCCTAA[AG]GGCAGTGTGTGACT GGCAACCTCTTTACTCTCCAAATGCAAATGAAGCAATCCAGCCCTC			
64407 I		A	CTCTAATAGGGCATGAACAGAACGAGAACAGGTTTATTTTATTTTTAAATGCCAATC			
64407 P	A	A	CGCGCCGAGGAGTGCCATTAGGAGTCATY			
64407 P	T	A	ATGACGTGGCAGACTGTGCCATTAGGAGTCAY			
64407 T	A	A	AAGAATGACTCCTAATGGCACTATTGGCATTTAAAAATAAAATAAACCTGTTCTCGTTCTGTTCATGCCCTATTAGAGAA			
64407 T	T	A	AAGAATGACTCCTAATGGCACAATTGGCATTTAAAAATAAAATAAACCTGTTCTCGTTCTGTTCATGCCCTATTAGAGAA			
64407 tS	[AT]		CGTTCTCTAATAGGGCATGAACAGAACGAGAACAGGTTTATTTTATTTTTAAATGCCAAT[AT]GTGCCATTAGGAGTCA TTCTTCTTTCCCTTAGTCGTATAAATCCCCTATTATTTGGTGAT	ctg3461	17	
64410 I		S	TGTGATTCAGAACATCTGTTCGGAGTATTGGCTGTGGC			
64410 P	A	S	CGCGCCGAGGTGGGAGGGAATACCTGY			
64410 P	C	S	ATGACGTGGCAGACGGGGAGGGAATACCTGY			
64410 T	A	S	TGTCCAGGTATTCCCTCCCACCACAGCCAATACTCCGAACAGATGTTCTGAATCACACA			
64410 T	C	S	TGTCCAGGTATTCCCTCCCCCCACAGCCAATACTCCGAACAGATGTTCTGAATCACACA			
64410 tS	[AC]		AGATGCCTGTTGGGCTGTCTTGTTCCTCACCTCAAGTGGCTTGTCCAGGTATTCCCTCCC[AC]CCACAGCCAATACTC CGAACAGATGTTCTGAATCACACAGTTTTCTCTCCACCTCTTTAT	ctg15140	12	
64444 I		A	TTTGAAAAGAAGGAGCAGGAATGGTAGAGGGCAAGAAT			
64444 P	G	A	ATGACGTGGCAGACGGTGTCAGCTGTGTCTY			
64444 P	A	A	CGCGCCGAGGAGTGTCAGCTGTGTCTY			
64444 T	G	A	TTACAGACACAGCTGACACCTTCTTGCCCTCTACCATTCCTGCTCCTTCTTTTCAAACA			
64444 T	A	A	TTACAGACACAGCTGACACTTTCTTGCCCTCTACCATTCCTGCTCCTTCTTTTCAAACA			
64444 tS	[GA]		CACTAAATGAAGTTGGAGTTGTGTTTGAAAAGAAGGAGCAGGAATGGTAGAGGGCAAGAA[GA]GTGTCAGCTGTGTCT GTAATACTTTATTTTCTGGAATGAGATCTGAAGCACGTGGGAAAA	ctg15944	11	
64471 I		S	GAGCTTGTAACTAAAGAAGTGGCCTACTAAGCCATCAGAGAAT			
64471 P	T	S	CGCGCCGAGGAGTAAGAACCAGGCAGTAY			
64471 P	C	S	ATGACGTGGCAGACGGTAAGAACCAGGCAGTY			
64471 T	T	S	ACAGTACTGCCTGGTTCTTACTTTCTCTGATGGCTTAGTAGGCCACTTCTTTAGTTACAAGCTCAA			
64471 T	C	S	ACAGTACTGCCTGGTTCTTACCTTCTCTGATGGCTTAGTAGGCCACTTCTTTAGTTACAAGCTCAA			
64471 tS	[TC]		TTTAAACCTACTCTCTTATAAGATTACATGTTGTCTTGTACAGTACTGCCTGGTTCTTAC[TC]TTCTCTGATGGCTTAGT AGGCCACTTCTTTAGTTACAAGCTCAAGGCAAGGCATGAAGGA	ctg15944	11	
64526 I		A	GTCCAGCATATATTTTTAAATATTGATTCACCAATATATTGGTTTTAATAGCCCTT			
64526 P	A	A	CGCGCCGAGGACGTCACCTTCAGTTTGY			
64526 P	G	A	ATGACGTGGCAGACGCGTCACCTTCAGTTTGY			
64526 T	A	A	ACTACAAACTGAAGGTGACGTAGGGCTATTAAAACCAATATATTGGTGAATCAATATTTAAAAATATATGCTGGACTT			
64526 T	G	A	ACTACAAACTGAAGGTGACGCAGGGCTATTAAAACCAATATATTGGTGAATCAATATTTAAAAATATATGCTGGACTT			
64526 tS	[AG]		TAAAAGTCCAGCATATATTTTTAAATATTGATTCACCAATATATTGGTTTTAATAGCCCT[AG]CGTCACCTTCAGTTTGTA GTCGAGTTCATGTTCAAATGGGCTACAACATATATGTACTTT	ctg15944	11	
64566 I		A	CATCCAGGTTAATCAGACATGGCCTACAGGT			
64566 P	G	A	ATGACGTGGCAGACGAAGGGACCTAAGTGTGGY			
64566 P	A	A	CGCGCCGAGGAAAGGGACCTAAGTGTGGY			
64566 T	G	A	ATGCCCACACTTAGGTCCCTTCCCTGTAGGCCATGTCTGATTAACCTGGATGCT			
64566 T	A	A	ATGCCCACACTTAGGTCCCTTTCCTGTAGGCCATGTCTGATTAACCTGGATGCT			
64566 tS	[GA]		AGTCCACTCTGAGTGAAAATACTATAAAAGCATCCAGGTTAATCAGACATGGCCTACAGG[GA]AAGGGACCTAAGTGT GGGCATGATATGAAGAGGCAGGCTTCCAAACACAGAGCTTCTGAG	ctg15064	7	
64598 I		S	TGGAGGGGCCCACAGAGGGCTT			
64598 P	T	S	CGCGCCGAGGATCCATCCCAGGCCY			

FIGURE 129D

64598 P	C	S	ATGACGTGGCAGACGTCCATCCCAGGCCY				
64598 T	T	S	AGGGGGCCTGGGATGGATAGCCCTCTGTGGGCCCCTCCACT				
64598 T	C	S	AGGGGGCCTGGGATGGACAGCCCTCTGTGGGCCCCTCCACT				
64598 IS	[TC]		TGAAGCCTTCAGGGGAGGCAGAACTAGGAGGGCCCTGGAAGTCAGGGGGCCTGGGATGGA[TC]AGCCCTCTGTGGG CCCCTCCACTGGGATTCCCAGAGGCCTTGCCCCTATTAGTGCCGGGG	ctg15064	7		
64599 I		A	GCCTGCAATGTGACAAGACGTTCGTGGCT				
64599 P	G	A	ATGACGTGGCAGACGTCCTGGGACCTCAAGY				
64599 P	A	A	CGCGCCGAGGATCCTGGGACCTCAAGY				
64599 T	G	A	GCCGCTTGAGGTCCCAGGACGCCACGAACGTCTTGTCACATTGCAGGCAC				
64599 T	A	A	GCCGCTTGAGGTCCCAGGATGCCACGAACGTCTTGTCACATTGCAGGCAC				
64599 IS	[GA]		GCGTGTGCACACAGGCGACCGGCCGTTCAAGTGCCTGCAATGTGACAAGACGTTCGTGGC[GA]TCCTGGGACCTCAA GCGGCACGCGCTGGTGCACTCTGGCCAGCGGCCCTTCCGCTGTGAG	ctg15907	6	FLJ13479	
64620 I		S	AAGGCTGGAAACAGTTATGAGTGACCACATCTTATATTTTAATAATATAATATTCTA				
64620 P	G	S	ATGACGTGGCAGACCATTTTTCAAAGTTAGTGTTTTGTAY				
64620 P	A	S	CGCGCCGAGGTATTTTTCAAAGTTAGTGTTTTGTACY				
64620 T	G	S	ATGGGTACAAAACACTAACTTTGAAAAATGAGAATATTATATTATTAAAATATAAGATGTGGTCACTCATAACTGTTTCC AGCCTTGC				
64620 T	A	S	ATGGGTACAAAACACTAACTTTGAAAAATAAGAATATTATATTATTAAAATATAAGATGTGGTCACTCATAACTGTTTCCA GCCTTGC				
64620 IS	[GA]		AATGATATCTGTCTTAAAACTGAATGAGATAATGGGTACAAAACACTAACTTTGAAAAAT[GA]AGAATATTATATTATTAA AATATAAGATGTGGTCACTCATAACTGTTTCCAGCCTTGCAG	ctg15907	6		
64677 I		A	ACAAGGATAAATCTTAAAAACATTGTGTCATGGGAGATAAAAAACAGAATAATACA				
64677 P	C	A	ATGACGTGGCAGACCATAACATCTATGCAAATTTAAAATACCY				
64677 P	T	A	CGCGCCGAGGTATAACATCTATGCAAATTTAAAATACCY				
64677 T	C	A	TGCAGGTATTTTAAATTTGCATAGATGTTATGGTATTATTCTGTTTTTTATCTCCCATGACACAATGTTTTTAAGATTTAT CCTTGTTG				
64677 T	T	A	TGCAGGTATTTTAAATTTGCATAGATGTTATAGTATTATTCTGTTTTTTATCTCCCATGACACAATGTTTTTAAGATTTAT CCTTGTTG				
64677 IS	[CT]		TAGCAACAAGGATAAATCTTAAAAACATTGTGTCATGGGAGATAAAAAACAGAATAATAC[CT]ATAACATCTATGCAAAT TTAAAATACCTGCATACCAACAACATACATATTTTACAAGAGT	ctg13206	14		
64701 I		S	CCATCTGCAGCCAGAGAAGAGCATGTCACCC				
64701 P	A	S	CGCGCCGAGGTTTCATTCATTCAGCATTTTAGGY				
64701 P	T	S	ATGACGTGGCAGACATTCATTCATTCAGCATTTTAGGY				
64701 T	A	S	AGACCCTAAAATGCTGAATGAATGAAAGGTGACATGCTCTTCTCTGGCTGCAGATGGCA				
64701 T	T	S	AGACCCTAAAATGCTGAATGAATGAATGGTGACATGCTCTTCTCTGGCTGCAGATGGCA				
64701 IS	[AT]		CTGTATTCACTAATATATTTATGATACCTAGAACAGACCCTAAAATGCTGAATGAATGAA[AT]GGTGACATGCTCTTCTC TGGCTGCAGATGGCAGACCTGCATGCCGTCCCAAGGGGCATGT	ctg13206	14		
64705 I		S	CTCACCTGTGAGCTCCCACCTCCCTT				
64705 P	T	S	CGCGCCGAGGACCTAACACATGGGAGTY				
64705 P	C	S	ATGACGTGGCAGACGCCTAACACATGGGAGTY				
64705 T	T	S	GTACACTCCCATGTGTTAGGTAGGGAGGTGGGAGCTCACAGGTGAGGG				
64705 T	C	S	GTACACTCCCATGTGTTAGGCAGGGAGGTGGGAGCTCACAGGTGAGGG				
64705 IS	[TC]		CCTGGCAGGAACAGATGCAGTCTTGGGAGAGGAAAATAAAGTACACTCCCATGTGTTAGG[TC]AGGGAGGTGGGAGC TCACAGGTGAGGGAAATTGGAGCGAGCTGGGCTGCACTGCAGCACC	ctg25099	7		
64714 I		A	CACAAAAGACCTGCCATGCCAGTCTGGCA				
64714 P	C	A	ATGACGTGGCAGACCTCTTTCTCCACCTGTTTCY				
64714 P	T	A	CGCGCCGAGGTTCTTTCTCCACCTGTTTCY				
64714 T	C	A	CCGGGAAACAGGTGGAGAAAGAGGCCAGACTGGCATGGCAGGTCTTTTGTGCC				
64714 T	T	A	CCGGGAAACAGGTGGAGAAAGAGGCCAGACTGGCATGGCAGGTCTTTTGTGCC				
64714 IS	[CT]		TTCTGAGCTTGAGTTGCAGGTGATAATGTTGGCACAAAAGACCTGCCATGCCAGTCTGGC[CT]TCTTTCTCCACCTGT TTCCCGGTGAAGGAGCCAGGACCTGGCCTGCGAGTCTGTCCTGTT	ctg22fin4	22		
64748 I		S	CACAAAACTGGTGCCAGTACTTAGACTGATTGATAAATGATGTAAGAAAATACTTCAAT				
64748 P	G	S	ATGACGTGGCAGACCTGTGGTATATCCTCTACTGTY				
64748 P	T	S	CGCGCCGAGGATGTGGTATATCCTCTACTGTY				
64748 T	G	S	CCAAACAGTAGAGGATATACCACAGTTGAAGTATTTTCTTACATCATTTATCAATCAGTCTAAGTACTGGCACCAGTTTT GTGCC				
64748 T	T	S	CCAAACAGTAGAGGATATACCACATTTGAAGTATTTTCTTACATCATTTATCAATCAGTCTAAGTACTGGCACCAGTTTT GTGCC				
64748 IS	[GT]		CTTTACTAAAGTCTAATAAAATTATCCCAATCCTTTCCAAACAGTAGAGGATATACCACA[GT]TTGAAGTATTTTCTTACA TCATTTATCAATCAGTCTAAGTACTGGCACCAGTTTTGTGCC				
64811 I		S	CTTTCCCTACAGGGAAACCCCAACACCCTC				
64811 P	C	S	ATGACGTGGCAGACGGTGCATCCTGTGAACY				
64811 P	A	S	CGCGCCGAGGTGTGCATCCTGTGAACTY				
64811 T	C	S	AGGGAGTTCACAGGATGCACCAGGGTGTTGGGGTTTCCCTGTAGGGAAAGGG				
64811 T	A	S	AGGGAGTTCACAGGATGCACAAGGGTGTTGGGGTTTCCCTGTAGGGAAAGGG				
64811 IS	[CA]		AGGGGAAAGCAGACTGTTCGGTGCTGAGGGAGATAGAAACAGGGAGTTCACAGGATGCAC[CA]AGGGTGTTGGGGT TTCCCTGTAGGGAAAGGGCTGGCCAGGGAGAGGGAGGGGTGGAGCTT				
64832 I		A	CAGTCTGTAAAAACTGTAAATGCTATTTTATTTTAAACATTTTAGTTTACAAAAAAAAAAT				
64832 P	A	A	CGCGCCGAGGAAAATCAATGATTGGTACCTTTTY				
64832 P	G	A	ATGACGTGGCAGACGAAATCAATGATTGGTACCTTTTY				
64832 T	A	A	GTAAAAAAGGTACCAATCATTGATTTTTTTTTTTTTTGTAAACTAAAATGTTTAAAATAAAATAGCATTTACAGTTTTTACA GACTG				
64832 T	G	A	GTAAAAAAGGTACCAATCATTGATTTCTTTTTTTTTTGTAAACTAAAATGTTTAAAATAAAATAGCATTTACAGTTTTTAC AGACTG				
64832 IS	[AG]		CAGTCTGTAAAAACTGTAAATGCTATTTTATTTTAAACATTTTAGTTTACAAAAAAAAAA[AG]AAATCAATGATTGGTACC TTTTTTACACTCTCAGATTCCTGAATATGGACAGATCTTCAA	ctg18433	19		
64834 I		S	GGAGTCCCGGATCCAGCACCTGCT				
64834 P	T	S	CGCGCCGAGGAGGCAAAGGCAGGAY				
64834 P	C	S	ATGACGTGGCAGACGGGCAAAGGCAGGAY				
64834 T	T	S	GCCCTCCTGCCTTTGCCTGCAGGTGCTGGATCCGGGACTCCCT				
64834 T	C	S	GCCCTCCTGCCTTTGCCCGCAGGTGCTGGATCCGGGACTCCCT				
64834 IS	[TC]		AACCACAGCCCAGGAAATGCTGCCCGTGCTGGCCACACGCTGAGCCCTCCTGCCTTTGCC[TC]GCAGGTGCTGGATC CGGGACTCCCTGGTCAGCTACATCACCAACCTGGGCCTCTTCAGCC	ctg18433	19		
64866 I		A	CCAAACACCTCGTTGAGAGTGTGTGCAACTTCTT				
64866 P	C	A	CGCGCCGAGGCTACCACCGAAGTTGCY				
64866 P	G	A	ATGACGTGGCAGACGTACCACCGAAGTTGCY				
64866 T	C	A	GGTGGCAACTTCGGTGGTAGAGAAGTTGCACACACTCTCAACGAGGTGTTTGGGT				
64866 T	G	A	GGTGGCAACTTCGGTGGTACAGAAGTTGCACACACTCTCAACGAGGTGTTTGGGT				
64866 IS	[CG]		TGAATGAAGATTTAAGTGCTTTAGGACCCAAACACCTCGTTGAGAGTGTGTGCAACTTCT[CG]TACCACCGAAGTTGC CACCACGACCCCAGTTAACCACCACGTGCAAATAAAACACCAAAA	ctg_na	NA		
64960 I		A	GAGCATATGAACACCACATATATTTTGGGAGCCCTCCTTTTTTTTA				
64960 P	T	A	CGCGCCGAGGTCCCAAAGAAATAATGGAAAATTATY				
64960 P	C	A	ATGACGTGGCAGACCCCCAAAGAAATAATGGAAAATY				
64960 T	T	A	CTTCATAATTTTCCATTATTTCTTTGGGAAAAAAAAAGGAGGGCTCCCAAAATATATGTGGTGTTCATATGCTCTC				
64960 T	C	A	CTTCATAATTTTCCATTATTTCTTTGGGGAAAAAAAAAGGAGGGCTCCCAAAATATATGTGGTGTTCATATGCTCTC				
64960 IS	[TC]		TCTTCTATACTCTGAGAGCATATGAACACCACATATATTTTGGGAGCCCTCCTTTTTTTT[TC]CCCAAAGAAATAATGGA AAATTATGAAGCAGAATATTACTGCTGTAGTTCAGCTATGTTA	ctg_na	NA		

FIGURE 129D


65008 I A GTGAATTAGAGGCCTGCCCCGCTAGTCATT
65008 P G A ATGACGTGGCAGACGAGGTGATTCAGTGACGY
65008 P A A CGCGCCGAGGAAGGTGATTCAGTGACGY
65008 T G A TAGCCGTCACTGAATCACCTCATGACTAGCGGGGCAGGCCTCTAATTCACCG
65008 T A A TAGCCGTCACTGAATCACCTTATGACTAGCGGGGCAGGCCTCTAATTCACCG
65008 IS [GA] CCCCACAATCCAACCTACCGGAAATCCTGCGGTGAATTAGAGGCCTGCCCCGCTAGTCAT[GA]AGGTGATTCAGTGA
CGGCTACAAACGCTCCTCATGTGCATCCTGGACTTGGTACACCCGG ctg12567 16
65035 I A AGCATTTCTTTAAAATAATCATAGCTATGCCTTTTTGTGCATACAGA
65035 P C A ATGACGTGGCAGACCTGAAGACTCTCTATTGTAACTGY
65035 P T A CGCGCCGAGGTTGAAGACTCTCTATTGTAACTGY
65035 T C A CGGACAGTTACAATAGAGAGTCTTCAGCTGTATGCACAAAAAGGCATAGCTATGATTATTTTAAAGAAATGCTCT
65035 T T A CGGACAGTTACAATAGAGAGTCTTCAACTGTATGCACAAAAAGGCATAGCTATGATTATTTTAAAGAAATGCTCT
65035 IS [CT] TGGGTAAGAAGAAAGAGCATTTCTTTAAAATAATCATAGCTATGCCTTTTTGTGCATACAG[CT]TGAAGACTCTCTATTGT
AACTGTCCGTGGAGACTTTAGGATTAGCAGTTCCTTGCTTGTT ctg15064 7
65094 I A GGTGTATTGTTCCAATTGTTTAAGGGGCAAGGTGTAAACTAGCC
65094 P A A CGCGCCGAGGAATCGTTGCTTTGGAGTTAY
65094 P T A ATGACGTGGCAGACTATCGTTGCTTTGGAGTTACY
65094 T A A GCCTGTAACTCCAAAGCAACGATTGCTAGTTTACACCTTGCCCCTTAAACAATTGGAACAATACACCTA
65094 T T A GCCTGTAACTCCAAAGCAACGATAGCTAGTTTACACCTTGCCCCTTAAACAATTGGAACAATACACCTA
65094 IS [AT] TTTTTTTTTATCTTATAGGTGTATTGTTCCAATTGTTTAAGGGGCAAGGTGTAAACTAGC[AT]ATCGTTGCTTTGGAGTT
ACAGGCTCCAAACTTAGTTGCCATGTTCTATGGATTCCAATGA ctg13206 14
65190 I A GGGAATGTGCTGATATCGTGTTAAACTGATGTGGCAGTAAC
65190 P T A CGCGCCGAGGTCCAAGGGACTAAGCACY
65190 P A A ATGACGTGGCAGACACCAAGGGACTAAGCAY
65190 T T A TCATGTGCTTAGTCCCTTGGATTACTGCCACATCAGTTTAACACGATATCAGCACATTCCCTT
65190 T A A TCATGTGCTTAGTCCCTTGGTTTACTGCCACATCAGTTTAACACGATATCAGCACATTCCCTT
65190 IS [TA] CAACACCTTGATGATGACAAGGGAATGTGCTGATATCGTGTTAAACTGATGTGGCAGTAA[TA]CCAAGGGACTAAGCA
CATGATTATTCAAATTAAAACATAAAAAGGACAAAAGGTGTGGAT ctg2226n4 22
65241 I S GCCACGCTGCTGGCCGCAAT
65241 P C S ATGACGTGGCAGACGGATGGTGGCTCTGGY
65241 P G S CGCGCCGAGGCGATGGTGGCTCTGGY
65241 T C S TTGGCCAGAGCCACCATCCTGCGGCCAGCAGCGTGGCCC
65241 T G S TTGGCCAGAGCCACCATCGTTGCGGCCAGCAGCGTGGCCC
65241 IS [cG] GATGACAGTGAGTCACAGGATGGTGGATTTCTTACCTGCCCCTTGGCCAGAGCCACCATC[cG]TTGCGGCCAGCAGC
GTGGCCCAGCTCCCTTCGTCCAAAACAAACACTAATGCAGGCAGGC
65259 I A AAGGGTGCCTTGTCCTGAGGCTTCCAAAT
65259 P G A ATGACGTGGCAGACGAGCTTCTTGTTTCCCAAY
65259 P A A CGCGCCGAGGAAGCTTCTTGTTTCCCAAAY
65259 T G A GATGTTTGGGAAACAAGAAGCTCTTTGGAAGCCTCAGGACAAGGCACCCTTCT
65259 T A A GATGTTTGGGAAACAAGAAGCTTTTTGGAAGCCTCAGGACAAGGCACCCTTCT
65259 IS [GA] TAAGGTGGACAATGTGCAGACTGTGGGACAAGAAGGGTGCCTTGTCCTGAGGCTTCCAAA[GA]AGCTTCTTGTTTCCC
AAACATCCATGAGCTGTTGACAGTGTGAATCTTAGGGCTCTAGCA ctg15590 7
65330 I A CTGAGAGCAGTCAGGCTGGCGGCC
65330 P T A CGCGCCGAGGTCAGAGGGGTCTTACATGY
65330 P A A ATGACGTGGCAGACACAGAGGGGTCTTACATGY
65330 T T A GACCCATGTAAGACCCCTCTGAGCCGCCAGCCTGACTGCTCTCAGTG
65330 T A A GACCCATGTAAGACCCCTCTGTGCCGCCAGCCTGACTGCTCTCAGTG
65330 IS [TA] TTTCAGGTGAAGGAAGGCTGGGTTCTGGGTCTTTGCACTGAGAGCAGTCAGGCTGGCGGC[TA]CAGAGGGGTCTTAC
ATGGGTCCAGGCTCTGCACGGCCCTGTGCCTCTAAGGACGCTGTTT ctg19247 7
65409 I A GCAACTTCTAATCAGAGGAATGGGGAGCGCAGT
65409 P A A CGCGCCGAGGAACCTGTGCTGGAATGY
65409 P C A ATGACGTGGCAGACCACCTGTGCTGGAATGY
65409 T A A CCTGCATTCCAGCACAGGTTCTGCGCTCCCCATTCCTCTGATTAGAAGTTGCTT
65409 T C A CCTGCATTCCAGCACAGGTGCTGCGCTCCCCATTCCTCTGATTAGAAGTTGCTT
65409 IS [AC] ATGACATACGTTAGCCTCAGTAGAGAAAGCAACTTCTAATCAGAGGAATGGGGAGCGCAG[AC]ACCTGTGCTGGAATG
CAGGAGTCCTGACCGACCCCATGAGTTATCATTACAGTCAAAATG ctg18037 7
65860 I S TGGGATATTCCAAAGGGAAGGGAAACTGACACTGCA
65860 P G S ATGACGTGGCAGACCCAGTACCCTGCATATAATAGY
65860 P A S CGCGCCGAGGTCAGTACCCTGCATATAATAGTY
65860 T G S GTGTACTATTATATGCAGGGTACTGGGCAGTGTCAGTTTCCCTTCCCTTTGGAATATCCCATC
65860 T A S GTGTACTATTATATGCAGGGTACTGAGCAGTGTCAGTTTCCCTTCCCTTTGGAATATCCCATC
65860 IS [GA] ATCAAAAGCTAGCCTCATTACTGTCATCATTTATTGTGTACTATTATATGCAGGGTACTG[GA]GCAGTGTCAGTTTCCC
TTCCCTTTGGAATATCCCATCCCCCTCCTTGTCTTTCCAGCTGC ctg13206 14
6967 I A CCTGGTAGTGTCAGCTCTCAAACTGTTGTTTTTCAAGATCAGCTTAA
6967 P A A CGCGCCGAGGATTCCTTGGCCTTTTTAAATTGC
6967 P T A CGCGCCGAGGTTTCCTTGGCCTTTTTAAATTGC
6967 T A A TATAGCAATTTAAAAAGGCCAAGGAATTTAAGCTGATCTTGAAAAACAACAGTTTGAGAGCTGACACTACCAGGTA
6967 T T A TATAGCAATTTAAAAAGGCCAAGGAAATTAAGCTGATCTTGAAAAACAACAGTTTGAGAGCTGACACTACCAGGTA
6967 IS [AT] ATACCTGGTAGTGTCAGCTCTCAAACTGTTGTTTTTCAAGATCAGCTTAA[AT]TTCCTTGGCCTTTTTAAATTGCTATAT
AGATTTTAGAATTAATTAGTTGT ctg30 7
14839 I S GCCTGTTCTCCGACTCTCAACACAGCTGTGTCT
14839 P C S CGCGCCGAGGGACAGCCTCACCTCAAC
14839 P T S CGCGCCGAGGAACAGCCTCACCTCAAC
14839 T C S AAGCGTTGAGGTGAGGCTGTCGACACAGCTGTGTTGAGAGTCGGAGAACAGGCAT
14839 T T S AAGCGTTGAGGTGAGGCTGTTGACACAGCTGTGTTGAGAGTCGGAGAACAGGCAT
14839 IS [CT] ttttgcgtgtttttgaaaaccctcctctcaggaagcgtgaggtgaggctgt[CT]gacacagctgtgttgaggtcggagaacaggcatgggggaagctgaggt
23513 I A CGTGGGAGTTAATGATCTGGTGGGTAGCACACAGT
23513 P A A CGCGCCGAGGAGACAGGGTAATTGAAGGGTY
23513 P C A CGCGCCGAGGCGACAGGGTAATTGAAGGGY
23513 T A A GCTAACCCTTCAATTACCCTGTCTCTGTGTGCTACCCACCAGATCATTAACTCCCACGCG
23513 T C A GCTAACCCTTCAATTACCCTGTCGCTGTGTGCTACCCACCAGATCATTAACTCCCACGCG
23513 IS [AC] ATGCAGCTTGAAGCCGCGTGGGAGTTAATGATCTGGTGGGTAGCACACAG[AC]GACAGGGTAATTGAAGGGTTAGCA
CCATGAGGTGTTGGGGTAATAGCCAG ctg15064 7
45439 I S CGTGCACCCCCACAACTTGGTTACTCATATTTTTCTGAAAAGTAATTGT
45439 P T S CGCGCCGAGGATTTCACCTAGACTTTCAAATGTATTAAC
45439 P C S CGCGCCGAGGGTTTCACCTAGACTTTCAAATGTATTAA
45439 T T S TTATGTTAATACATTTGAAAGTCTAGGTGAAATCAATTACTTTTCAGAAAAATATGAGTAACCAAGTTGTGGGGGTGCA
CGTC
45439 T C S TTATGTTAATACATTTGAAAGTCTAGGTGAAACCAATTACTTTTCAGAAAAATATGAGTAACCAAGTTGTGGGGGTGCA
CGTC
45439 IS [TC] GAAAGACTGTGTGTATCATTATGTTAATACATTTGAAAGTCTAGGTGAAA[TC]CAATTACTTTTCAGAAAAATATGAGTA
ACCAAGTTGTGGGGGTGCACGTC ctg15064 7

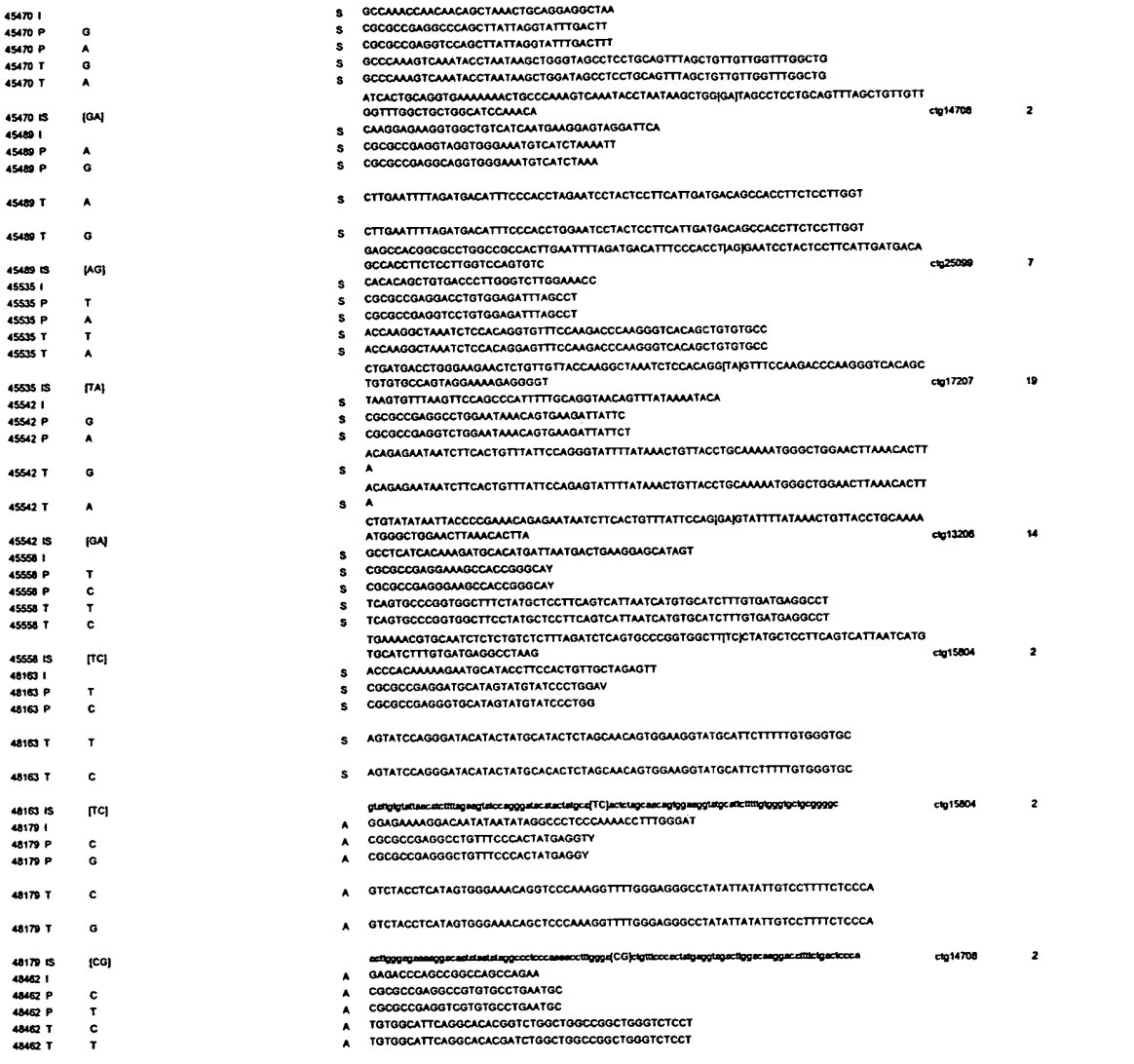


FIGURE 129D

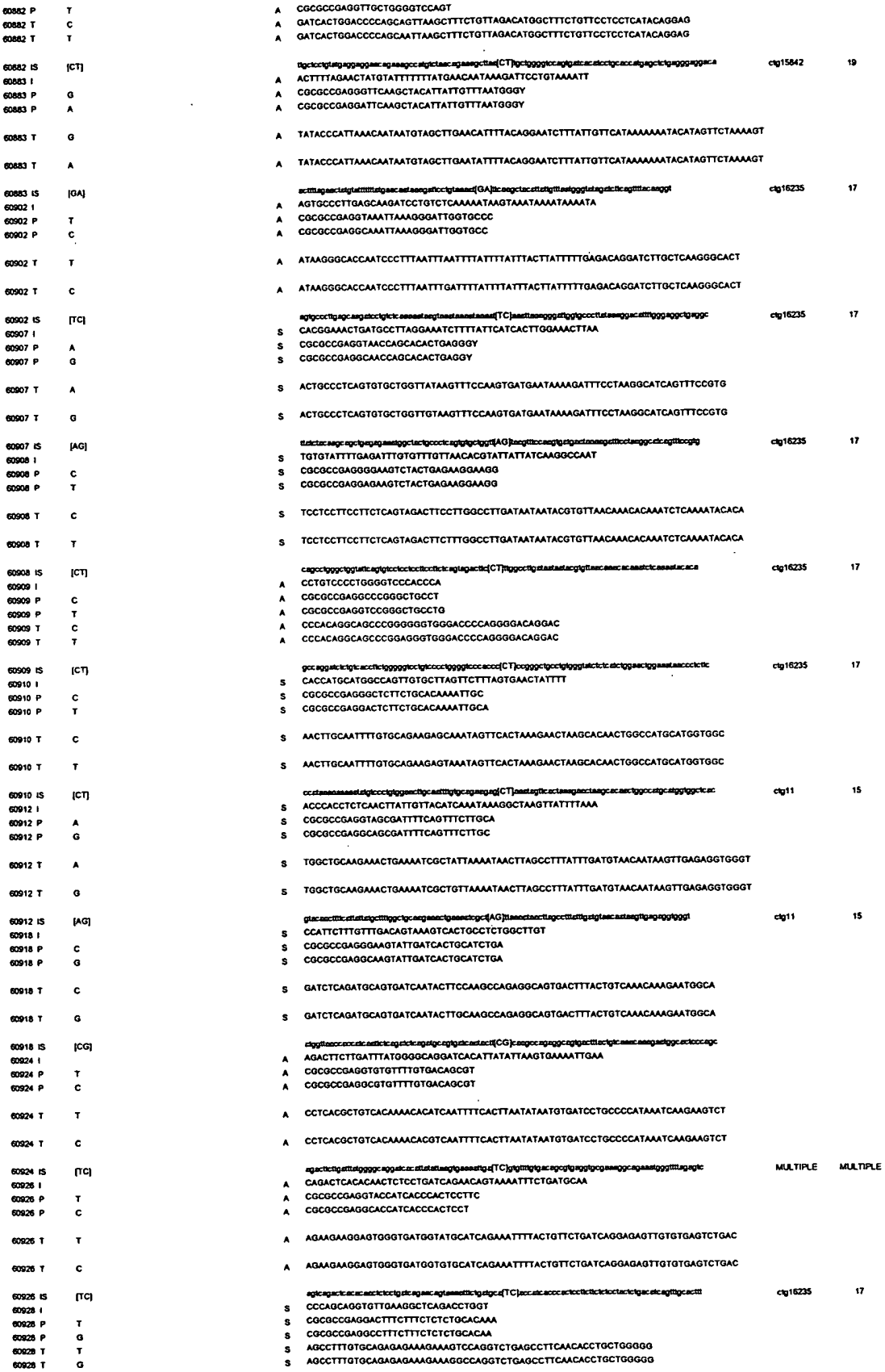
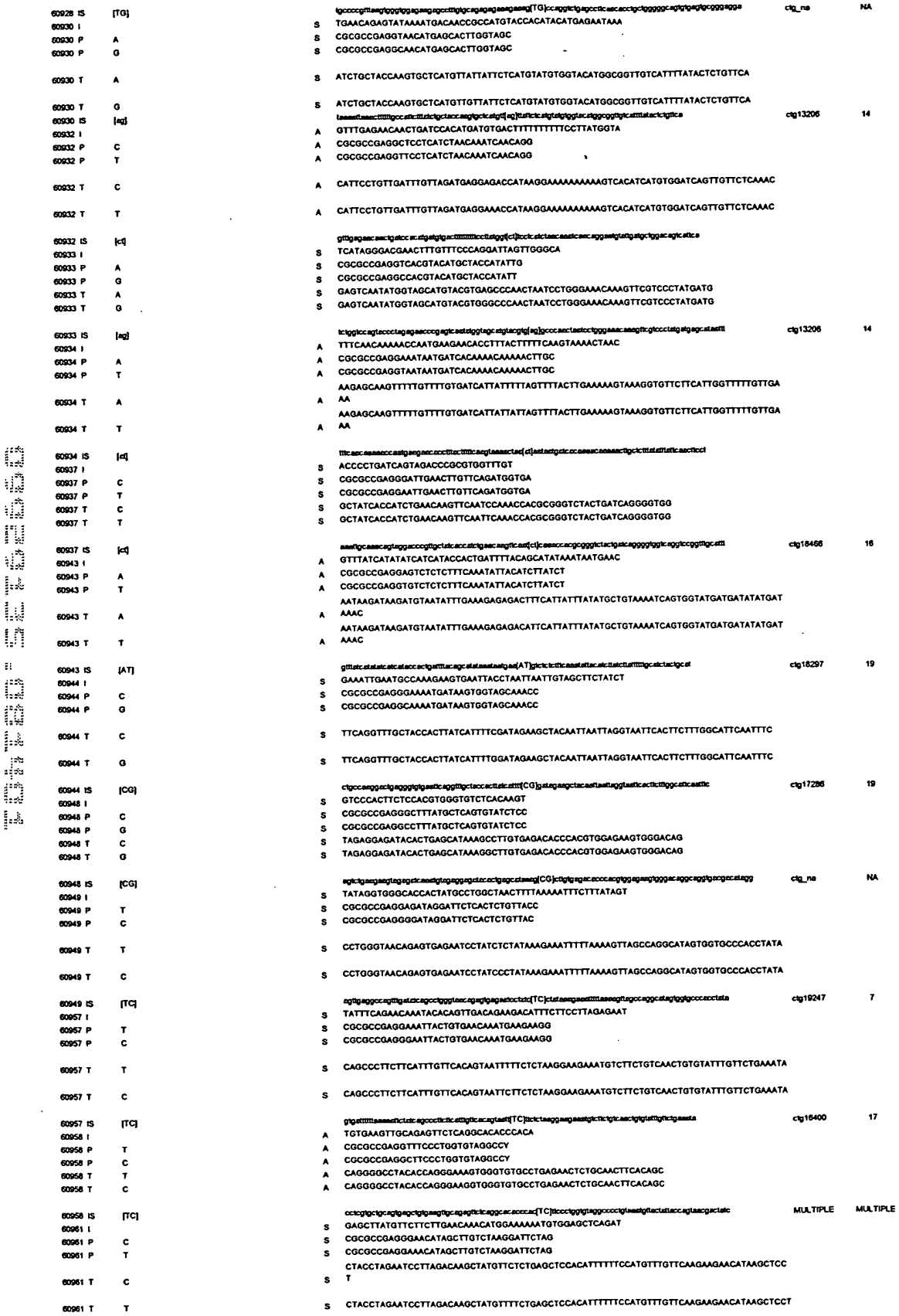
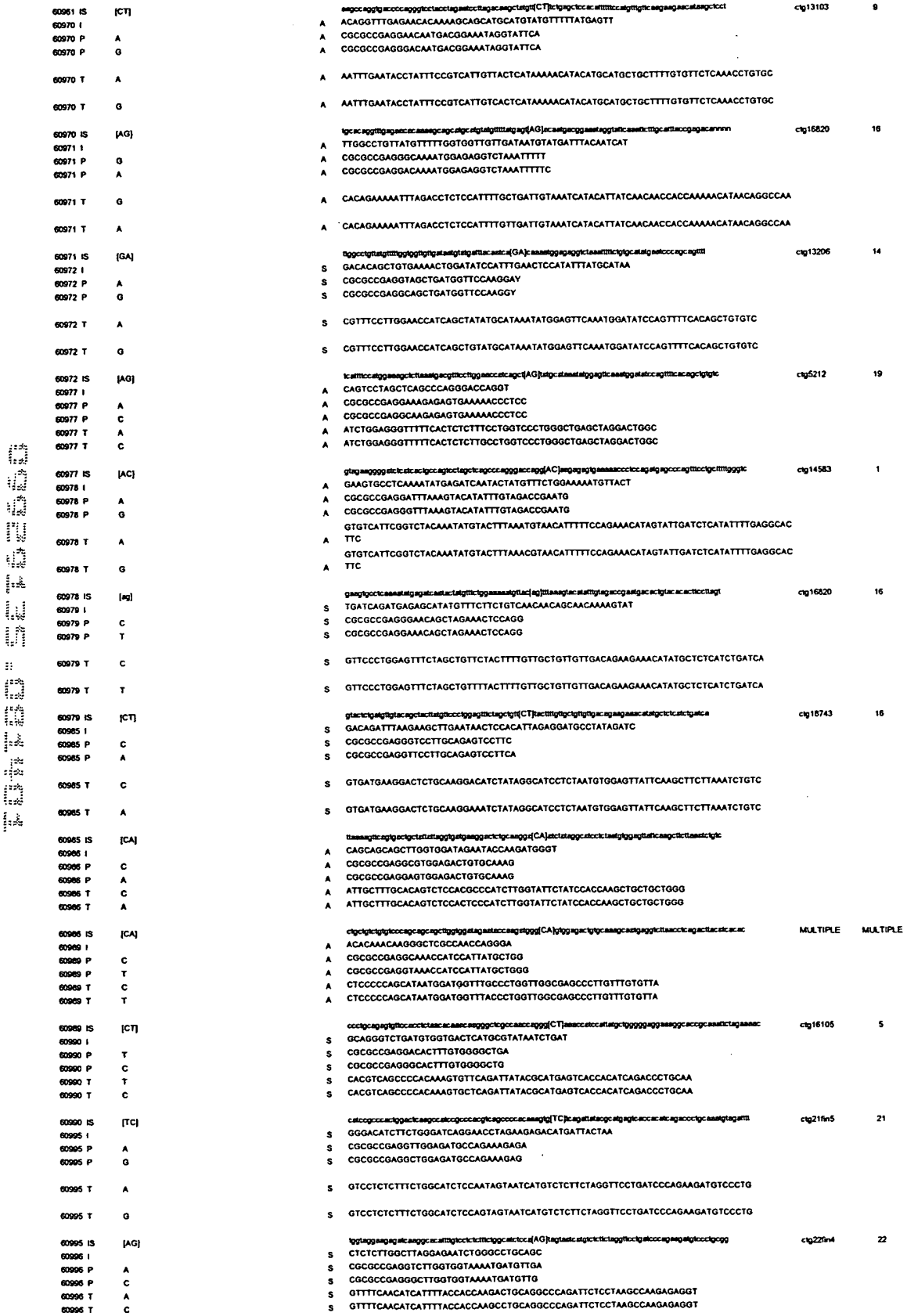


FIGURE 129D





60961	IS	[CT]		aegccaggtgaccccagggtcctacctagaatcctagacaagctatgt[CT]ctgagctccacattttttccatgttgttcaagaagaacataagcctcct	ctg13103	9
60970	I		A	ACAGGTTTGAGAACACAAAAGCAGCATGCATGTATGTTTTTATGAGTT		
60970	P	A	A	CGCGCCGAGGAACAATGACGGAAATAGGTATTCA		
60970	P	G	A	CGCGCCGAGGGACAATGACGGAAATAGGTATTCA		
60970	T	A	A	AATTTGAATACCTATTTCCGTCATTGTTACTCATAAAAACATACATGCATGCTGCTTTTGTGTTCTCAAACCTGTGC		
60970	T	G	A	AATTTGAATACCTATTTCCGTCATTGTCACTCATAAAAACATACATGCATGCTGCTTTTGTGTTCTCAAACCTGTGC		
60970	IS	[AG]		tgcacaggttgaaccaccaaaagcagcatgcatgtatgttttatgagt[AG]acaatgacggaaataggtatttcaaattcttgcattaccgagacannnn	ctg16820	16
60971	I		A	TTGGCCTGTTATGTTTTTGGTGGTTGTTGATAATGTATGATTTACAATCAT		
60971	P	G	A	CGCGCCGAGGGCAAAATGGAGAGGTCTAAATTTTT		
60971	P	A	A	CGCGCCGAGGACAAAATGGAGAGGTCTAAATTTTTC		
60971	T	G	A	CACAGAAAAATTTAGACCTCTCCATTTTGCTGATTGTAAATCATACATTATCAACAACCACCAAAAACATAACAGGCCAA		
60971	T	A	A	CACAGAAAAATTTAGACCTCTCCATTTTGTTGATTGTAAATCATACATTATCAACAACCACCAAAAACATAACAGGCCAA		
60971	IS	[GA]		tggcctgttatgtttgggtggttgttgataatgtatgatttacaatc[GA]caaatgggagaggtctaaatttttctgtgcattatgaatcccagcagtttt	ctg13206	14
60972	I		S	GACACAGCTGTGAAAACTGGATATCCATTTGAACTCCATATTTATGCATAA		
60972	P	A	S	CGCGCCGAGGTAGCTGATGGTTCCAAGGAY		
60972	P	G	S	CGCGCCGAGGCAGCTGATGGTTCCAAGGY		
60972	T	A	S	CGTTTCCTTGGAACCATCAGCTATATGCATAAATATGGAGTTCAAATGGATATCCAGTTTTCACAGCTGTGTC		
60972	T	G	S	CGTTTCCTTGGAACCATCAGCTGTATGCATAAATATGGAGTTCAAATGGATATCCAGTTTTCACAGCTGTGTC		
60972	IS	[AG]		tcatttccatggaaagcttaaatgacgtttcctggaacccatcagct[AG]tatgcataaatatggagttcaaatggatatccagttttcacagctgtgtc	ctg5212	19
60977	I		A	CAGTCCTAGCTCAGCCCAGGGACCAGGT		
60977	P	A	A	CGCGCCGAGGAAAGAGAGTGAAAAACCCTCC		
60977	P	C	A	CGCGCCGAGGCAAGAGAGTGAAAAACCCTCC		
60977	T	A	A	ATCTGGAGGGTTTTTCACTCTCTTTCCTGGTCCCTGGGCTGAGCTAGGACTGGC		
60977	T	C	A	ATCTGGAGGGTTTTTCACTCTCTTGCCTGGTCCCTGGGCTGAGCTAGGACTGGC		
60977	IS	[AC]		gtagaggggatctctctcagtcctagtcctagctcagcccagggaccagg[AC]aagagagtgaaaaacccctccagatgagcccagttccctgcttttgggtc	ctg14583	1
60978	I		A	GAAGTGCCTCAAAATATGAGATCAATACTATGTTTCTGGAAAAAATGTTACT		
60978	P	A	A	CGCGCCGAGGATTTAAAGTACATATTTGTAGACCGAATG		
60978	P	G	A	CGCGCCGAGGGTTTAAAGTACATATTTGTAGACCGAATG		
60978	T	A	A	GTGTCATTCGGTCTACAAATATGTACTTTAAATGTAACATTTTTCCAGAAACATAGTATTGATCTCATATTTTGAGGCAC TTC		
60978	T	G	A	GTGTCATTCGGTCTACAAATATGTACTTTAAACGTAACATTTTTCCAGAAACATAGTATTGATCTCATATTTTGAGGCAC TTC		
60978	IS	[ag]		gaagtgcctcaaaatatgagatcaatactatgtttctggaaaaatgttac[ag]tttaaagtacatatttgtagaccgaatgacactgtacacacttcctagt	ctg16820	16
60979	I		S	TGATCAGATGAGAGCATATGTTTCTTCTGTCAACAACAGCAACAAAAGTAT		
60979	P	C	S	CGCGCCGAGGGAACAGCTAGAAACTCCAGG		
60979	P	T	S	CGCGCCGAGGAAACAGCTAGAAACTCCAGG		
60979	T	C	S	GTTCCCTGGAGTTTCTAGCTGTTCTACTTTTGTTGCTGTTGTTGACAGAAGAAACATATGCTCTCATCTGATCA		
60979	T	T	S	GTTCCCTGGAGTTTCTAGCTGTTTTACTTTTGTTGCTGTTGTTGACAGAAGAAACATATGCTCTCATCTGATCA		
60979	IS	[CT]		gtactctgatgttgtacagctacttatgttcccttggagtttctagctgt[CT]actttttgttgctgttgttgacagaagaaacatatgctctctcatctgatca	ctg18743	16
60985	I		S	GACAGATTTAAGAAGCTTGAATAACTCCACATTAGAGGATGCCTATAGATC		
60985	P	C	S	CGCGCCGAGGGTCCTTGCAGAGTCCTTC		
60985	P	A	S	CGCGCCGAGGTTCCTTGCAGAGTCCTTCA		
60985	T	C	S	GTGATGAAGGACTCTGCAAGGACATCTATAGGCATCCTCTAATGTGGAGTTATTCAAGCTTCTTAAATCTGTC		
60985	T	A	S	GTGATGAAGGACTCTGCAAGGAAATCTATAGGCATCCTCTAATGTGGAGTTATTCAAGCTTCTTAAATCTGTC		
60985	IS	[CA]		ttaaaagttcagtgactgctattaggtgatgaaggactctgcaaggg[CA]atctataggcatcctctaatgtggagttattcaagcttcttaaatctgtc		
60986	I		A	CAGCAGCAGCTTGGTGGATAGAATACCAAGATGGGT		
60986	P	C	A	CGCGCCGAGGCGTGGAGACTGTGCAAAG		
60986	P	A	A	CGCGCCGAGGAGTGGAGACTGTGCAAAG		
60986	T	C	A	ATTGCTTTGCACAGTCTCCACGCCCATCTTGGTATTCTATCCACCAAGCTGCTGCTGGG		
60986	T	A	A	ATTGCTTTGCACAGTCTCCACTCCCATCTTGGTATTCTATCCACCAAGCTGCTGCTGGG		
60986	IS	[CA]		ctgctgtctgtgtcccagcagcagctggtggatagaatacccaagatggg[CA]gtggagactgtgcaaagcaatgaggtcttaacctcagacttactctcacac	MULTIPLE	MULTIPLE
60989	I		A	ACACAAACAAGGGCTCGCCAACCAGGGA		
60989	P	C	A	CGCGCCGAGGCAAACCATCCATTATGCTGG		
60989	P	T	A	CGCGCCGAGGTAAACCATCCATTATGCTGGG		
60989	T	C	A	CTCCCCCAGCATAATGGATGGTTTGCCCTGGTTGGCGAGCCCTTGTTTGTGTTA		
60989	T	T	A	CTCCCCCAGCATAATGGATGGTTTACCCTGGTTGGCGAGCCCTTGTTTGTGTTA		
60989	IS	[CT]		ccctgcagagtgttccacctctaacacaaccaagggctcgccaacccaggg[CT]aaacctccattatgctgggggaggaaaggcaccgcaaatctagaaaac	ctg16105	5
60990	I		S	GCAGGGTCTGATGTGGTGACTCATGCGTATAATCTGAT		
60990	P	T	S	CGCGCCGAGGACACTTTGTGGGGCTGA		
60990	P	C	S	CGCGCCGAGGGCACTTTGTGGGGCTG		
60990	T	T	S	CACGTCAGCCCCACAAAGTGTTCAGATTATACGCATGAGTCACCACATCAGACCCTGCAA		
60990	T	C	S	CACGTCAGCCCCACAAAGTGCTCAGATTATACGCATGAGTCACCACATCAGACCCTGCAA		
60990	IS	[TC]		catccgcccactggactcaagccatccgcccacgtcagcccccacaaagtg[TC]tcagattatacgcatgagtcaccacatcagaccctgcaaatgtagattt	ctg21fin5	21
60995	I		S	GGGACATCTTCTGGGATCAGGAACCTAGAAGAGACATGATTACTAA		
60995	P	A	S	CGCGCCGAGGTTGGAGATGCCAGAAAGAGA		
60995	P	G	S	CGCGCCGAGGCTGGAGATGCCAGAAAGAG		
60995	T	A	S	GTCCTCTCTTTCTGGCATCTCCAATAGTAATCATGTCTCTTCTAGGTTCCTGATCCCAGAAGATGTCCCTG		
60995	T	G	S	GTCCTCTCTTTCTGGCATCTCCAGTAGTAATCATGTCTCTTCTAGGTTCCTGATCCCAGAAGATGTCCCTG		
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60996	I		S	CTCTCTTGGCTTAGGAGAATCTGGGCCTGCAGC		
60996	P	A	S	CGCGCCGAGGTCTTGGTGGTAAAATGATGTTGA		
60996	P	C	S	CGCGCCGAGGGCTTGGTGGTAAAATGATGTTG		
60996	T	A	S	GTTTTCAACATCATTTTACCACCAAGACTGCAGGCCCAGATTCTCCTAAGCCAAGAGAGGT		
60996	T	C	S	GTTTTCAACATCATTTTACCACCAAGCCTGCAGGCCCAGATTCTCCTAAGCCAAGAGAGGT		

FIGURE 129D

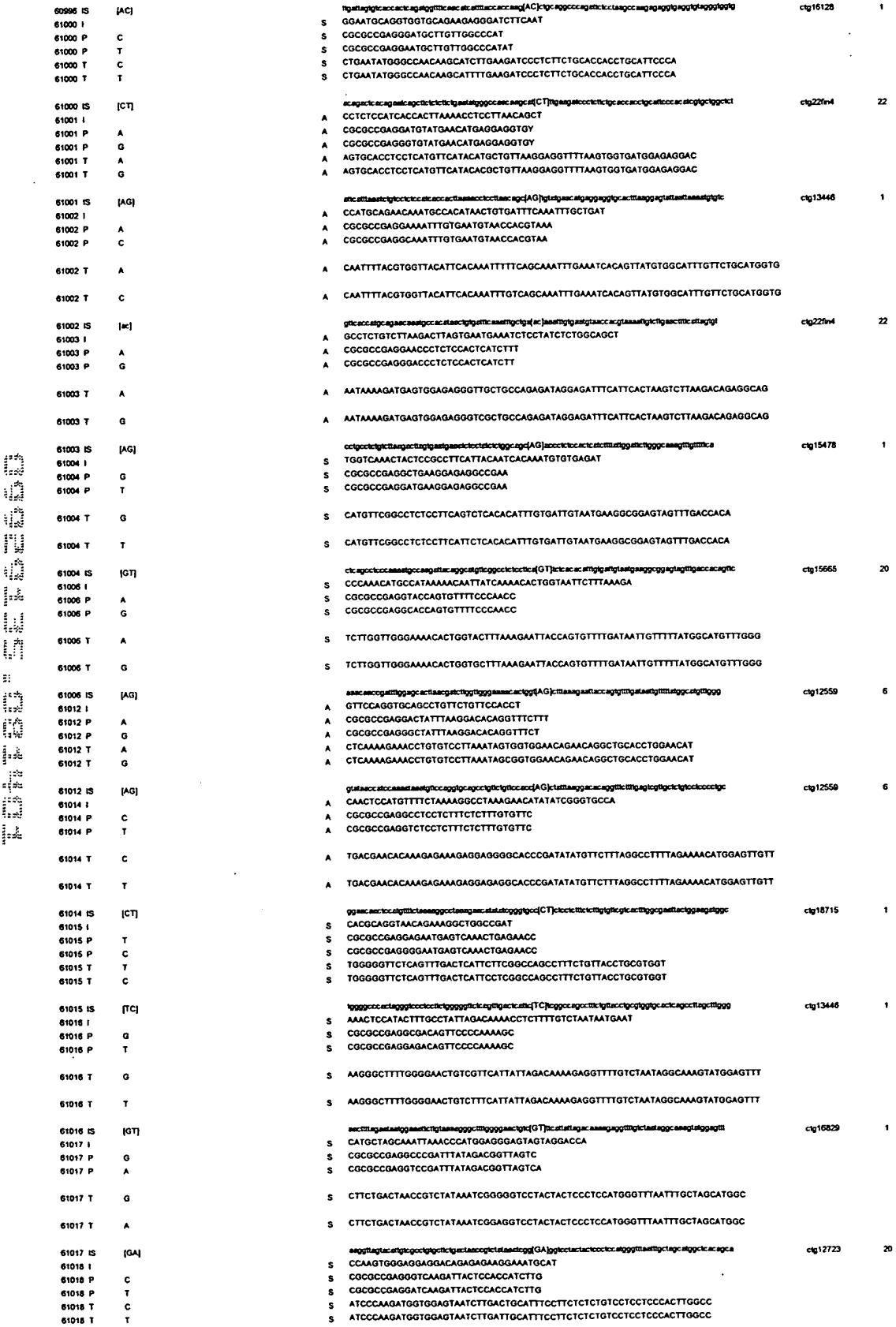
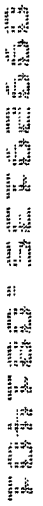


FIGURE 129D



61018 IS	[CT]		acaactctctgggaggggactgtgatcccagatggtggagtaatctgg[CT]gcattcctctctctgtcctcctccactggccagaaatgcaggtat	ctg16537	20
61019 I		A	TAATGAAAACCTTTCCCTAAGGCCTCAGATGAGCTATAGAAAATAAAGACA		
61019 P	T	A	CGCGCCGAGGTGTATGTGAATTCTTTAGGTTCATGA		
61019 P	C	A	CGCGCCGAGGCGTATGTGAATTCTTTAGGTTCATG		
61019 T	T	A	AACATCATGAACCTAAAGAATTCACATACAGTCTTTATTTTCTATAGCTCATCTGAGGCCTTAGGGAAAGGTTTTCATTA		
61019 T	C	A	AACATCATGAACCTAAAGAATTCACATACGGTCTTTATTTTCTATAGCTCATCTGAGGCCTTAGGGAAAGGTTTTCATTA		
61019 IS	[TC]		taatgaaaaccttttcccttaaggcctcagatgagctctagaaaataaagac[TC]gtatgtgaatcttaggttcatgatgttgactctcaatgggtagtga	MULTIPLE	MULTIPLE
61020 I		A	CATAGCTACAGTTTAGGAAAACTTAATTTATGTATGAGTCTGCTTCATAAA		
61020 P	C	A	CGCGCCGAGGCGACAAACATGACAAGCATTG		
61020 P	T	A	CGCGCCGAGGTGACAAACATGACAAGCATTG		
61020 T	C	A	TAAACAATGCTTGTCATGTTTGTCGTTATGAAGCAGACTCATACATAAATTAAGTTTTCCTAAACTGTAGCTATG		
61020 T	T	A	TAAACAATGCTTGTCATGTTTGTCATTATGAAGCAGACTCATACATAAATTAAGTTTTCCTAAACTGTAGCTATG		
61020 IS	[CT]		catagctacagtttaggaaaacttaatttatgtatgagtctgcttcataa[CT]gacaaacatgacaagcattgtttaaaaagctcctggtagtatttatctt	ctg18466	16
61021 I		A	TTAGAATGAGACAGATCATGAGAATATGATCTCTATCTCTTATTCATGGAA		
61021 P	T	A	CGCGCCGAGGTGTACCCCAATTTTCAGTAGAC		
61021 P	C	A	CGCGCCGAGGCGTACCCCAATTTTCAGTAGAC		
61021 T	T	A	GAGCGTCTACTGAAAATTGGGGTACATCCATGAATAAGAGATAGAGATCATATTCTCATGATCTGTCTCATTCTAA		
61021 T	C	A	GAGCGTCTACTGAAAATTGGGGTACGTCCATGAATAAGAGATAGAGATCATATTCTCATGATCTGTCTCATTCTAA		
61021 IS	[TC]		ttagaatgagacagctctgtgaatctgtatctctctctcttctcatggg[TC]gtccccaatttcagtagacgctcaagaatttttatcagttgaatgaa	ctg17341	14
61022 I		A	GTGGATACACGGAAGGGTGAGAAAAATGGAATTTACTGAGCAC		
61022 P	T	A	CGCGCCGAGGTAAAGGAAAGAAACTCAGCAAAG		
61022 P	A	A	CGCGCCGAGGAAAAGGAAAGAAACTCAGCAAAG		
61022 T	T	A	CTTGCTTTGCTGAGTTTCTTTCCTTTATGCTCAGTAAATTCCATTTTTCTCACCCTTCCGTGTATCCACGA		
61022 T	A	A	CTTGCTTTGCTGAGTTTCTTTCCTTTTTGCTCAGTAAATTCCATTTTTCTCACCCTTCCGTGTATCCACGA		
61022 IS	[TA]		ttaggttcgtggctacacggaaggggtgagaaaactggaatttactgagcac[TA]aaaggaaagaaactcagcaaagcaagagaggttcctgttaatagcccct	ctg13655	10
61027 I		S	CCTGTACTGGAACACTCTCCTTTCGCCTTTGTGAGTCT		
61027 P	T	S	CGCGCCGAGGATTTAAGGCTCAGCCCAG		
61027 P	C	S	CGCGCCGAGGGTTTAAGGCTCAGCCCAG		
61027 T	T	S	GGAGCTGGGCTGAGCCTTAAATGACTCACAAAGGCGAAAGGAGAGTGTTCCAGTACAGGGC		
61027 T	C	S	GGAGCTGGGCTGAGCCTTAAACGACTCACAAAGGCGAAAGGAGAGTGTTCCAGTACAGGGC		
61027 IS	[TC]		tgtgggctggagcattgagagaacaggagggagctgggctgagcctaaa[TC]gactcacaaaggcgaaaggagagtgttccagtacagggcacagcagaggc	ctg13655	10
61042 I		S	ATAGAATGCTGTGTAGCTATCCAGAGGGAAATAAGAAAGCTTTATGTATAA		
61042 P	G	S	CGCGCCGAGGCAGATGCCCCTTGACTTATG		
61042 P	A	S	CGCGCCGAGGTAGATGCCCCTTGACTTATGA		
61042 T	G	S	TAATTCATAAGTCAAGGGGCATCTGTATACATAAAGCTTTCTTATTTCCCTCTGGATAGCTACACAGCATTCTAT		
61042 T	A	S	TAATTCATAAGTCAAGGGGCATCTATATACATAAAGCTTTCTTATTTCCCTCTGGATAGCTACACAGCATTCTAT		
61042 IS	[GA]		gaatttctcaggacctaccacccctcctaatttctaagtcaaggggcatct[GA]tatactaaagcttttcttatttcccctctggatagctacacagcatttctat	ctg13655	10
61045 I		A	AAAAGTAGACAAGCTCAGACACAATTTCATGTCCAAAACTTAAGTAAGCTT		
61045 P	G	A	CGCGCCGAGGGTCTGCTGGCCTAGGGY		
61045 P	A	A	CGCGCCGAGGATCTGCTGGCCTAGGGY		
61045 T	G	A	TTGTCCCTAGGCCAGCAGACAGCTTACTTAAGTTTTGGACATGAAATTGTGTCTGAGCTTGTCTACTTTT		
61045 T	A	A	TTGTCCCTAGGCCAGCAGATAGCTTACTTAAGTTTTGGACATGAAATTGTGTCTGAGCTTGTCTACTTTT		
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61046 I		A	TTATCGATAAAATGAGAGGTTTCTCCATTCTAGTTCTGAACTGTTTTTCAC		
61046 P	A	A	CGCGCCGAGGACTTGCTAAATTAAAACCAGGAAAG		
61046 P	T	A	CGCGCCGAGGTCTTGCTAAATTAAAACCAGGAAAG		
61046 T	A	A	AATACTTTCCTGGTTTTAATTTAGCAAGTTGAAAAACAGTTCAGAACTAGAATGGAGAAACCTCTCATTTTATCGATAA		
61046 T	T	A	AATACTTTCCTGGTTTTAATTTAGCAAGATGAAAAACAGTTCAGAACTAGAATGGAGAAACCTCTCATTTTATCGATAA		
61046 IS	[AT]		ttatcgataaaatgagaggtttctccattctagttctgaactgtttttc[AT]ctgctaaattaaaaccaggaaagtattatagtaaccaaacttatttcctat	ctg16586	20
61047 I		S	GATGCCATTCACAGAGGGTATTTTTTTTTAATTTCTAATGGGAACACTTTAA		
61047 P	A	S	CGCGCCGAGGTACCTTCAATGAGCTCTGTAATC		
61047 P	G	S	CGCGCCGAGGCACCTTCAATGAGCTCTGTAAT		
61047 T	A	S	TTTAGATTACAGAGCTCATTGAAGGTATAAAGTGTTCCCATTAGAAATTAAAAAAAAATACCCTCTGTGAATGGCATC		
61047 T	G	S	TTTAGATTACAGAGCTCATTGAAGGTGTAAAGTGTTCCCATTAGAAATTAAAAAAAAATACCCTCTGTGAATGGCATC		
61047 IS	[AG]		tactggcagagttgtacagatggttagattacagagctcattgaaggt[AG]taaagtgttcccattagaaattaaaaaaaaatacccctctgtgaatggcatc	ctg53	14
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61053 P	T	A	CGCGCCGAGGTCAAGACTTCCTACAGAAGTGC		
61053 P	C	A	CGCGCCGAGGCCAAGACTTCCTACAGAAGTG		
61053 T	T	A	CTGGGCACTTCTGTAGGAAGTCTTGAGCCCCCAGCTGGCGGGGCTA		
61053 T	C	A	CTGGGCACTTCTGTAGGAAGTCTTGGGCCCCCAGCTGGCGGGGCTA		
61053 IS	[TC]		tgccaggcagtgatggattgtgcagctgctagcccccgccagctgggggc[TC]cagaacttcctacagaagtgcccagtgggaggcatgctctgaggggcctg	ctg53	14
61055 I		A	TCCCAGGGCCCAGCACTGGCTA		
61055 P	C	A	CGCGCCGAGGCTCTGAGACTGTAGGCTCTG		
61055 P	T	A	CGCGCCGAGGTTCTGAGACTGTAGGCTCTG		
61055 T	C	A	CCCCCAGAGCCTACAGTCTCAGAGAGCCAGTGCTGGGCCCTGGGAAC		
61055 T	T	A	CCCCCAGAGCCTACAGTCTCAGAAAGCCAGTGCTGGGCCCTGGGAAC		
61055 IS	[CT]		nnnnnnnnnataatcgggtgcccagaagttcccagggcccagcactggc[CT]tctgagactgtaggctctgggggagggtgggcttcagggaaggtgtctgt	ctg53	14
61057 I		A	GCCAGCCAGGCACCGCACTCCA		
61057 P	C	A	CGCGCCGAGGCGCTTCCAACAGCCTG		
61057 P	T	A	CGCGCCGAGGTGCTTCCAACAGCCTG		
61057 T	C	A	GGCACAGGCTGTTGGAAGCGGGAGTGCGGTGCCTGGCTGGCCT		

FIGURE 129D

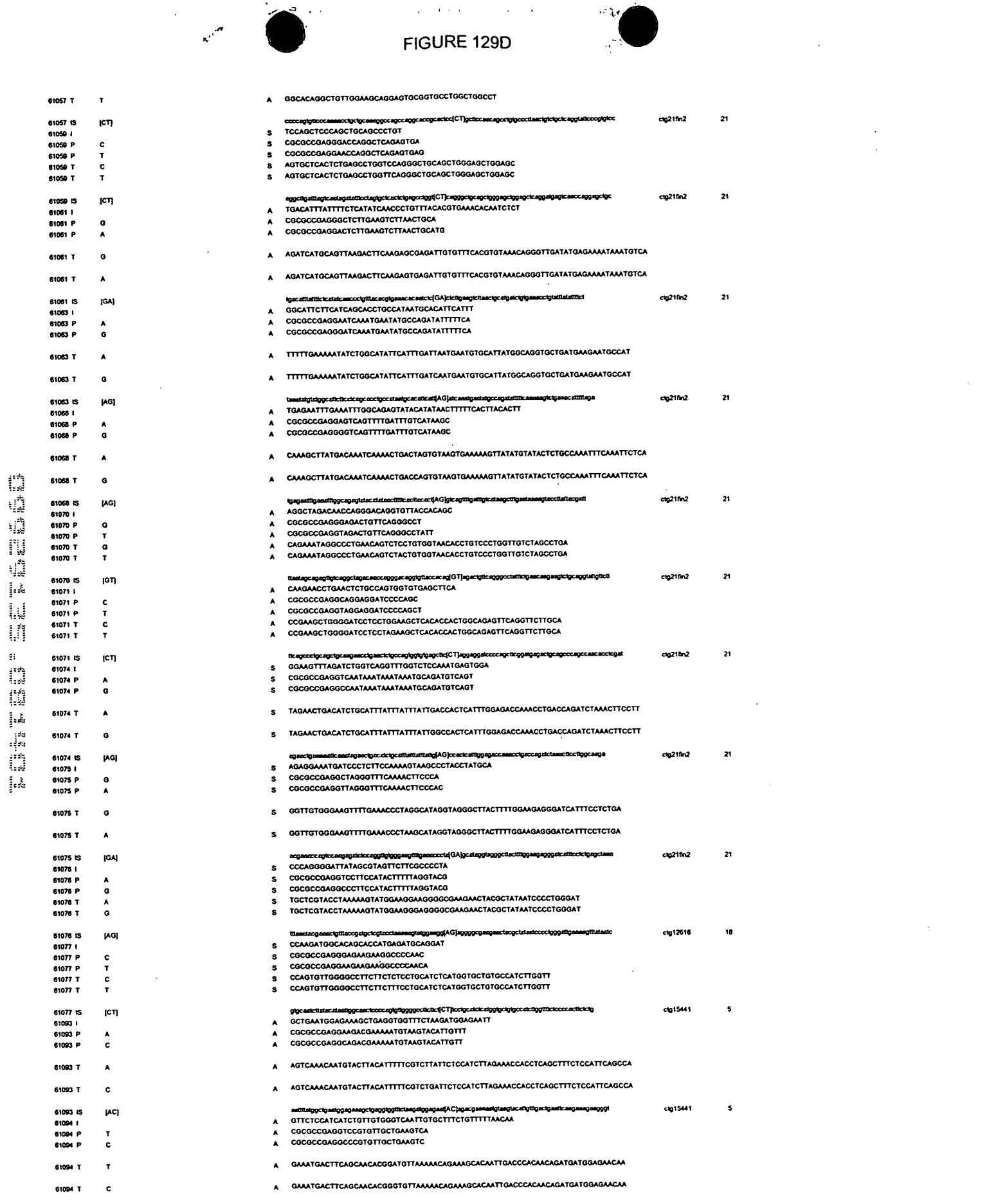
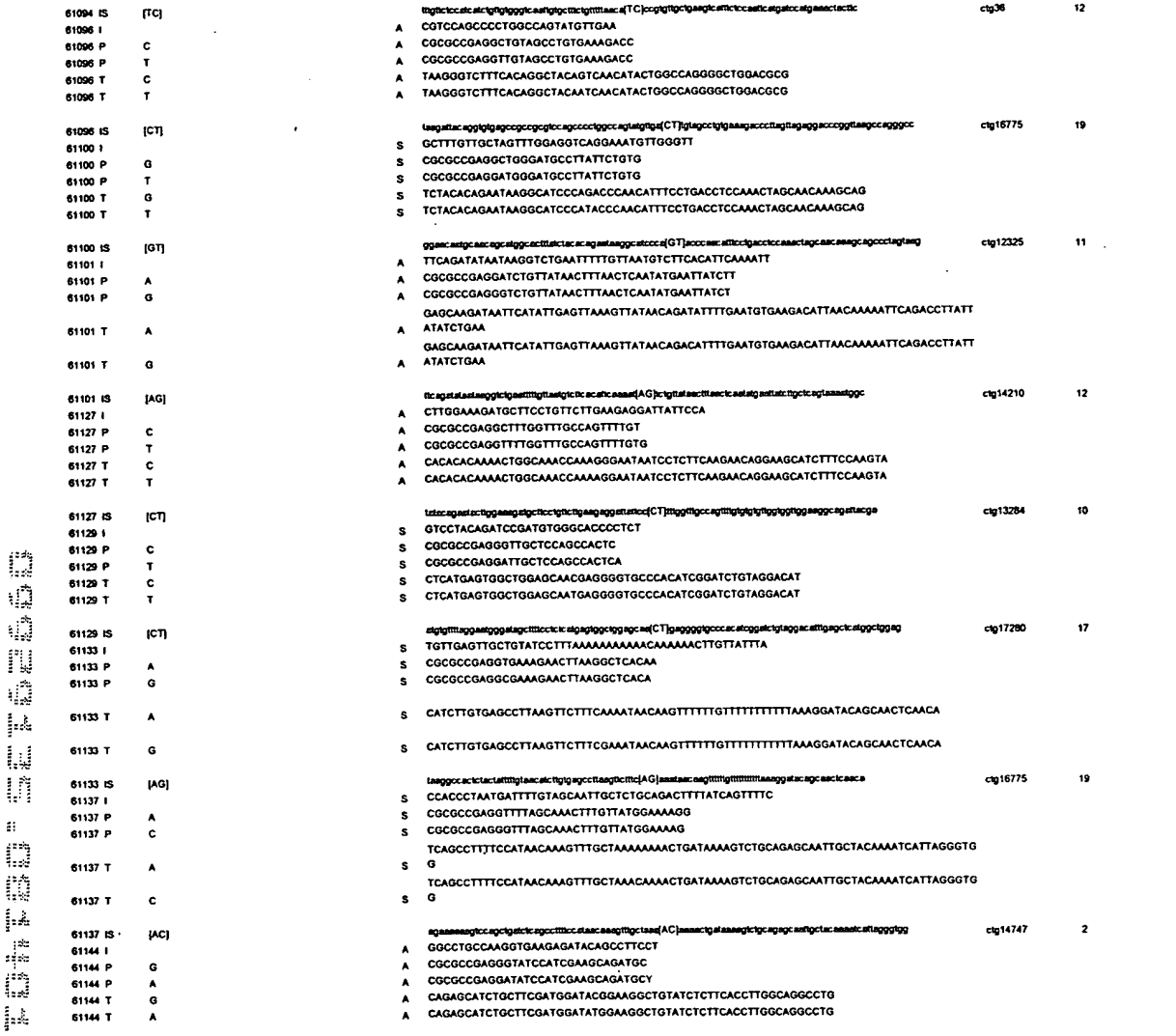


FIGURE 129D



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17135 P	A		S	CGCGCCGAGGTTACACAAAAATACCATGGCY		
17135 P	T		S	ATGACGTGGCAGACATACACAAAAATACCATGGCY		
17135 T	A		S	GGTCGCCATGGTATTTTTGTGTAACGAGTCTCAAAATGAGTTTGGCAATGTCTTCGTAATAGTCAGCAT		
17135 T	T		S	GGTCGCCATGGTATTTTTGTGTATCGAGTCTCAAAATGAGTTTGGCAATGTCTTCGTAATAGTCAGCAT		
17135 IS	[AT]			CTAAATGTCCTCCATACCCCCAATGCCTGCTAGGCTGGGTCGCCATGGTATTTTTGTGTA[AT]CGAGTCTCAAAATGA GTTTGGCAATGTCTTCGTAATAGTCAGCATGGTGTAAATGACAGT	ctg15285	12
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19447 P	G		A	ATGACGTGGCAGACGAGCTAATGTCTAAGAAGTTTTGY		
19447 P	C		A	CGCGCCGAGGCAGCTAATGTCTAAGAAGTTTTGY		
19447 T	G		A	TAGACAAAACTTCTTAGACATTAGCTCTTCCCCACTGTGTCTCTGTACTGGCATGAGTTGA		
19447 T	C		A	TAGACAAAACTTCTTAGACATTAGCTGTTCCCCACTGTGTCTCTGTACTGGCATGAGTTGA		
19447 IS	[GC]			CTTATGGGATCCAATCAAAGGCTGCATCAACTCATGCCAGTACAGAGACACAGTGGGGAA[GC]AGCTAATGTCTAAGA AGTTTTGTCTACACGGCAGCAAGTGTGTCAGGAAACAGGCAGATG		
22613 I			A	CTCAAACACTAGTGTTTCCAGGGAGGTGTCTGGAA		
22613 P	C		A	ATGACGTGGCAGACCAGATGACACATTTATGCTGY		
22613 P	T		A	CGCGCCGAGGTAGATGACACATTTATGCTGTAY		
22613 T	C		A	TTACTACAGCATAAATGTGTCATCTGTCCAGACACCTCCCTGGAAACACTAGTGTTTGAGAC		
22613 T	T		A	TTACTACAGCATAAATGTGTCATCTATCCAGACACCTCCCTGGAAACACTAGTGTTTGAGAC		
22613 IS	[CT]			TTGGGGTGGCTTGGGTGGAGGAAGGTCTCAAACACTAGTGTTTCCAGGGAGGTGTCTGGA[CT]AGATGACACATTTA TGCTGTAGTAAGATATCCCACCAGCAAAGGCTTCCAGAAGAGCTTT	ctg16279	17
26225 I			S	AGGTTCTGAATTCATCTAATGGCTGGTTATTTTTACAGATGCCAAGTTC		
26225 P	A		S	CGCGCCGAGGTATAAAACATACAAGTGCACAGAY		
26225 P	C		S	ATGACGTGGCAGACGATAAAACATACAAGTGCACAGY		
26225 T	A		S	CCTGTCTGTGCACTTGTATGTTTTATAAACTTGGCATCTGTAAAAATAACCAGCCATTAGATGAATTCAGAACCTTC		
26225 T	C		S	CCTGTCTGTGCACTTGTATGTTTTATCAACTTGGCATCTGTAAAAATAACCAGCCATTAGATGAATTCAGAACCTTC		
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26583 P	T		S	CGCGCCGAGGATTTTTTCCAACTCAAATATCTATTGY		
26583 P	C		S	ATGACGTGGCAGACGTTTTTTCCAACTCAAATATCTATTGY		
26583 T	T		S	TTAGCAATAGATATTTGAGTTGGAAAAAATATCAACATTGGGTGAAGGGATAAGGTGACCCTTTGAAATTGC		
26583 T	C		S	TTAGCAATAGATATTTGAGTTGGAAAAAACATCAACATTGGGTGAAGGGATAAGGTGACCCTTTGAAATTGC		
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27569 P	G		A	ATGACGTGGCAGACGGGTGGTAGGTGGAGY		
27569 P	A		A	CGCGCCGAGGAGGTGGTAGGTGGAGY		
27569 T	G		A	GCCCCTCCACCTACCACCCCTGCCCCTGAACTCTCCCCCCGACC		
27569 T	A		A	GCCCCTCCACCTACCACCTCTGCCCCTGAACTCTCCCCCCGACC		
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27657 P	G		A	ATGACGTGGCAGACGAGGAATTAAAGGAACAGTGY		
27657 P	A		A	CGCGCCGAGGAAGGAATTAAAGGAACAGTGCY		
27657 T	G		A	ACTGGCACTGTTCCTTTAATTCCTCGTCTACGGAATGAGGCTAATTTCACTAAACCTTTGAATCGCTCTAG		
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27676 P	T		S	CGCGCCGAGGACTCTGCAGAAATGTGACY		
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36783 I			A	CAGGATGTTTTGGGCTTCAAGGAACCCAATACCTGT		
36783 P	G		A	ATGACGTGGCAGACGCCAAAAGTTATTTGAATGATAGY		
36783 P	C		A	CGCGCCGAGGCCCAAAAGTTATTTGAATGATAGCY		
36783 T	G		A	AAACGCTATCATTCAAATAACTTTTGGCCAGGTATTGGGTTCCTTGAAGCCCAAAACATCCTGAT		
36783 T	C		A	AAACGCTATCATTCAAATAACTTTTGGGCAGGTATTGGGTTCCTTGAAGCCCAAAACATCCTGAT		
36783 IS	[GC]			CCCTGATGCTGTATGAGGATTGTATCAGGATGTTTTGGGCTTCAAGGAACCCAATACCTG[GC]CCAAAAGTTATTTGA ATGATAGCGTTTTATTACTGTATTGTCATTAGCATCTTTTATAAT		
39052 I			A	TGCATGCTCTAGCTCTTTCTAGAATGTTCTTTCCTATCTACTGCATC		
39052 P	G		A	ATGACGTGGCAGACGGGGCTACCTCTTACTTY		
39052 P	T		A	CGCGCCGAGGTGGGCTACCTCTTACTTCY		
39052 T	G		A	AGGAGAAGTAAGAGGTAGCCCCATGCAGTAGATAGGAAAGAACATTCTAGAAAGAGCTAGAGCATGCACA		
39052 T	T		A	AGGAGAAGTAAGAGGTAGCCCAATGCAGTAGATAGGAAAGAACATTCTAGAAAGAGCTAGAGCATGCACA		
39052 IS	[GT]			TCTGGGCGCTTATGTGCATGCTCTAGCTCTTTCTAGAATGTTCTTTCCTATCTACTGCAT[GT]GGGCTACCTCTTACTT CTCCTTATTGACTCATGTCAAGAGCCTCCTTTCCCCTTGCCCCC	ctg15649	2
40005 I			A	GAGATTTAAGGGACGTTCCAAGAATCCAGTAACTTCCTTAAGTGTCT		
40005 P	G		A	ATGACGTGGCAGACGTAAATATTTCTCACTTTACAAAACTTCY		
40005 P	A		A	CGCGCCGAGGATAAATATTTCTCACTTTACAAAACTTCY		
40005 T	G		A	CTCTGAAGTTTTGTAAAGTGAGAAATATTTACGACACTTAAGGAAGTTACTGGATTCTTGGAACGTCCCTTAAATCTCT G		
40005 T	A		A	CTCTGAAGTTTTGTAAAGTGAGAAATATTTATGACACTTAAGGAAGTTACTGGATTCTTGGAACGTCCCTTAAATCTCT G		
40005 IS	[GA]			GAATATGATGAACAGAGATTTAAGGGACGTTCCAAGAATCCAGTAACTTCCTTAAGTGTC[GA]TAAATATTTCTCACTTT ACAAAACTTCAGAGTGAAAATCTATATGTACGTTGGACTGTAT	ctg12567	16
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40799 P	T		S	CGCGCCGAGGAGGGAAAATATTTGTATGGGAY		
40799 P	C		S	ATGACGTGGCAGACGGGGAAAATATTTGTATGGGAY		
40799 T	T		S	TAAGTCCCATACAAATATTTTCCCTGTAATCACAATGTTTTCTTTTCACTTTGCCCAAGAACTGAGT		
40799 T	C		S	TAAGTCCCATACAAATATTTTCCCCGTAATCACAATGTTTTCTTTTCACTTTGCCCAAGAACTGAGT		

				ATATTTGGGTTTTCTCCTTTTCCTATCTTTATTTAATAAGTCCCATACAAATATTTTCCC[TC]GTAATCACAATGTTTTCT		
40799	IS	[TC]		TTTCACTTTGCCCAAGAACTGAGTTATGAGTTCCAAATTTGG	ctg12567	16
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42004	P	C	A	ATGACGTGGCAGACCTGTGAACTTGAACTTGAATGY		
42004	P	T	A	CGCGCCGAGGTTGTGAACTTGAACTTGAATGY		
42004	T	C	A	CCCCCATTCAAGTTCAAGTTCACAGTTGGCGTAAGTGAACTTACTTTTTGGGTGAAATTTGTGGTTTGTA		
42004	T	T	A	CCCCCATTCAAGTTCAAGTTCACAATTGGCGTAAGTGAACTTACTTTTTGGGTGAAATTTGTGGTTTGTA		
42004	IS	[CT]		TCTGCTAGCCTCATGTACAAACCACAAATTTCACCCAAAAAGTAAGTTCACTTACGCCAA[CT]TGTGAACTTGAACTTG AATGGGGGTCCCTCAAAGAATGCCGCGCAGTTATCATCGCTTCC	ctg15966	12
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42434	P	A	A	CGCGCCGAGGAGACAAAAAAAAAAAAAACTAATATCCAY		
42434	P	G	A	ATGACGTGGCAGACGGACAAAAAAAAAAAAACTAATATCCY		
42434	T	A	A	AATATGGATATTAGTTTTTTTTTTTTTTGTCTTAATCTCAATGTCTAGTAGGAAAGAACTCCTATGGCTGGAAAACAGAC TT		
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42890	P	G	S	ATGACGTGGCAGACCAGAGCCTGTCCTAACCY		
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42890	T	G	S	GGAAGGTTAGGACAGGCTCTGTCTATCCTACGAGGGGCCCAGGGCCC		
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44040	P	A	A	CGCGCCGAGGAACAAAAAGACAGCCAATCY		
44040	P	G	A	ATGACGTGGCAGACGACAAAAAGACAGCCAATCY		
44040	T	A	A	TATCGATTGGCTGTCTTTTTGTTAGGTGTCAACCATGAACCAATCTGCTCTAGGGACGG		
44040	T	G	A	TATCGATTGGCTGTCTTTTTGTCAGGTGTCAACCATGAACCAATCTGCTCTAGGGACGG		
44040	IS	[AG]		GAGGATACTTTGCCCTGTATGACCCCGTCCCTAGAGCAGATTGGTTCATGGTTGACACCT[AG]ACAAAAAGACAGCCA ATCGATAGGTTGGTCAGCAACTTTTCTCATAACCTGACGCATACA	ctg12691	2
44051	I		S	AGTCTTCTGTTGCTAAGGCAAAAGCAGGGT		
44051	P	T	S	CGCGCCGAGGACCATTTTTAAAGCTGGTGAY		
44051	P	G	S	ATGACGTGGCAGACCCCATTTTTAAAGCTGGTGY		
44051	T	T	S	ATATTCACCAGCTTTAAAAATGGTCCCTGCTTTTGCCTTAGCAACAGAAGACTTT		
44051	T	G	S	ATATTCACCAGCTTTAAAAATGGGCCCTGCTTTTGCCTTAGCAACAGAAGACTTT		
44051	IS	[TG]		GTCCTGCAGTCAGCACATTCTAGCCTTGGCATCCTCTATATTCACCAGCTTTAAAAATGG[TG]CCCTGCTTTTGCCTTA GCAACAGAAGACTTTTTTTTTTTTTTAAATCAGAGAGGATAGTAG	ctg15064	7
44562	I		S	AGCTTCCCCCTTATTCATCTGCAGGCAGCA		
44562	P	G	S	ATGACGTGGCAGACCGCAGAAATGAATTATTTAGTTCY		
44562	P	A	S	CGCGCCGAGGTGCAGAAATGAATTATTTAGTTCCY		
44562	T	G	S	CTCAGGAACTAAATAATTCATTTCTGCGGCTGCCTGCAGATGAATAAGGGGGAAGCTTG		
44562	T	A	S	CTCAGGAACTAAATAATTCATTTCTGCAGCTGCCTGCAGATGAATAAGGGGGAAGCTTG		
44562	IS	[GA]		GACAGTTTATGAAAAGGAAACAAAACACATTCTCTCAGGAACTAAATAATTCATTTCTGC[GA]GCTGCCTGCAGATGAA TAAGGGGGAAGCTTGCCTGGTGCTGTTGAAGTAACACGGAGACA	ctg_na	NA
45867	I		S	ACAGACGACTCAATGCCACCTATAGAACAAGGAAGGATA		
45867	P	A	S	CGCGCCGAGGTGGGAGAGACAGAGATGY		
45867	P	G	S	ATGACGTGGCAGACCGGGAGAGACAGAGATGY		
45867	T	A	S	AAAACATCTCTGTCTCTCCCAATCCTTCCTTGTTCTATAGGTGGCATTGAGTCGTCTGTGG		
45867	T	G	S	AAAACATCTCTGTCTCTCCCGATCCTTCCTTGTTCTATAGGTGGCATTGAGTCGTCTGTGG		
45867	IS	[AG]		TCCAGGGATGAGGGGGGACTGGATTCTCCTCTGATGTCCTAAAACATCTCTGTCTCTCCC[AG]ATCCTTCCTTGTTCT ATAGGTGGCATTGAGTCGTCTGTGGAGGTCAAAGGCTGTACAGCC	ctg_na	NA
46500	I		S	AGCATTTAGCAACAGAAATGAATAACAACTAATCTTATGAGGTGATCT		
46500	P	C	S	ATGACGTGGCAGACGTTTTATAAGCAAGGAAATGAAACY		
46500	P	T	S	CGCGCCGAGGATTTTATAAGCAAGGAAATGAAACAY		
46500	T	C	S	TGAATGTTTCATTTCCTTGCTTATAAAACGATCACCTCATAAGATTAGTTGTTATTCATTTCTGTTGCTAAATGCTTA		
46500	T	T	S	TGAATGTTTCATTTCCTTGCTTATAAAATGATCACCTCATAAGATTAGTTGTTATTCATTTCTGTTGCTAAATGCTTA		
46500	IS	[CT]		CCTCTTTGGGGAAAAATCCTGGAAAATCCTCTTGAATGTTTCATTTCCTTGCTTATAAAA[CT]GATCACCTCATAAGATT AGTTGTTATTCATTTCTGTTGCTAAATGCTTAGTTGTTTTTT	ctg15907	6
46710	I		A	GCGGCCGCTGTGCCCGCT		
46710	P	G	A	ATGACGTGGCAGACGAAAGCTTTGGTGTTGAGY		
46710	P	A	A	CGCGCCGAGGAAAAGCTTTGGTGTTGAGY		
46710	T	G	A	ACAGCTCAACACCAAAGCTTTCGCGGGCACAGCGGCCGCAG		
46710	T	A	A	ACAGCTCAACACCAAAGCTTTTGCGGGCACAGCGGCCGCAG		
46710	IS	[GA]		AAGCGGACCAACGTCACTCACCTGCCAACTGACGTGCACGACTGCGGCCGCTGTGCCCGC[GA]AAAGCTTTGGTGTT GAGCTGTCCGGGGAGTCACCTAAGTCCAAGAAAGGAAGTGTGCGGT		
46878	I		S	GGGTAGCAAGGGCTGGATCAGGGCT		
46878	P	T	S	CGCGCCGAGGAATGATGGTTGTTAGTCTCATY		
46878	P	C	S	ATGACGTGGCAGACGATGATGGTTGTTAGTCTCATY		
46878	T	T	S	CTCCATGAGACTAACAACCATCATTGCCCTGATCCAGCCCTTGCTACCCCT		
46878	T	C	S	CTCCATGAGACTAACAACCATCATCGCCCTGATCCAGCCCTTGCTACCCCT		
46878	IS	[TC]		TGGATTTCTCCTCCTGGGGCTTTTGCCAGTCCTGAGCTCCATGAGACTAACAACCATCAT[TC]GCCCTGATCCAGCCC TTGCTACCCCTTAGCAAATCTAATCAGAGCCTTTGGTTCCACTGT	ctg45	8
46953	I		S	CCGGCTCTGTTTTCCTCCTCTTGTGTAGAAACAGATC		
46953	P	A	S	CGCGCCGAGGTCTTTCCTTACCTGATGGGY		
46953	P	T	S	ATGACGTGGCAGACACTTTCCTTACCTGATGGGY		
46953	T	A	S	GACTCCCATCAGGTAAGGAAAGAATCTGTTTCTACACAAGAGGAGGAAAACAGAGCCGGGG		
46953	T	T	S	GACTCCCATCAGGTAAGGAAAGTATCTGTTTCTACACAAGAGGAGGAAAACAGAGCCGGGG		
46953	IS	[AT]		CTATATCTTGCTCCTGTTTTTCCACAGGATGCACCCTGGACTCCCATCAGGTAAGGAAAG[AT]ATCTGTTTCTACACAA GAGGAGGAAAACAGAGCCGGGGTCGGGGAGCTGGGGAGCAGGAG	ctg45	8
47248	I		S	GACTTTCTCACTAGAGTCCCTTCTGGTGATTTGTTTCTTTTACACCT		
47248	P	G	S	CGCGCCGAGGCCTTCCTGCTATCCTTTCY		
47248	P	C	S	ATGACGTGGCAGACGCTTCCTGCTATCCTTTCY		
47248	T	G	S	AGTGGAAAGGATAGCAGGAAGGGGTGTAAAAGAAACAAATCACCAGAAGGGACTCTAGTGAGAAAGTCTA		
47248	T	C	S	AGTGGAAAGGATAGCAGGAAGCGGTGTAAAAGAAACAAATCACCAGAAGGGACTCTAGTGAGAAAGTCTA		
47248	IS	[GC]		ACATTAGCTCTCACTAGCTTCTCACTCAGAATATTATTCAGTGGAAAGGATAGCAGGAAG[GC]GGTGTAAAAGAAACAA ATCACCAGAAGGGACTCTAGTGAGAAAGTCTATGGTACAAAACA	ctg45	8
47331	I		A	CAAATGTGAATGGAAACGTGATGAGTGAGAGCAGGAGAT		
47331	P	C	A	CGCGCCGAGGCTGTCTCAGTTGGAAGCY		
47331	P	G	A	ATGACGTGGCAGACGTGTCTCAGTTGGAAGCY		
47331	T	C	A	GCTTGCTTCCAACTGAGACAGTCTCCTGCTCTCACTCATCACGTTTCCATTCACATTTGCC		
47331	T	G	A	GCTTGCTTCCAACTGAGACACTCTCCTGCTCTCACTCATCACGTTTCCATTCACATTTGCC		

FIGURE 129D

				GGAAAACAAAACTAAACAAAGGCAAATGTGAATGGAAACGTGATGAGTGAGAGCAGGAGA[CG]TGTCTCAGTTGGAAG			
47331 IS	[CG]			CAAGCACAGCAGTCACCACTACTTCATTCAATGACGTCAAGATTT	ctg17403	17	
49625 I			S	AATTTACTTTAGTCATATTTTATATAAAACAAGGGTTAGTATTCATGTAACATTGAGAAGC			
49625 P	A		S	CGCGCCGAGGTTTGGGAATAACAGCAGATATY			
49625 P	C		S	ATGACGTGGCAGACGTTGGGAATAACAGCAGATY			
				AATCATATCTGCTGTTATTCCCAAACTTCTCAATGTTACATGAATACTAACCCTTGTTTTATATAAAATATGACTAAAGTA			
49625 T	A		S	AATT			
				AATCATATCTGCTGTTATTCCCAACCTTCTCAATGTTACATGAATACTAACCCTTGTTTTATATAAAATATGACTAAAGTA			
49625 T	C		S	AATT			
				TCTAAGAAGCTCTTGAGTATGGTTATGACTTTTATTAATCATATCTGCTGTTATTCCCAA[AC]CTTCTCAATGTTACATG			
49625 IS	[AC]			AATACTAACCCTTGTTTTATATAAAATATGACTAAAGTAAATT	MULTIPLE	16	
50886 I			A	GTGGATAGCCGATCCCAGTCATGACTAGTTAGGATCAT			
50886 P	A		A	CGCGCCGAGGATGGACATTAACCTTTTTATTTCTTY			
50886 P	G		A	ATGACGTGGCAGACGTGGACATTAACCTTTTTATTTCTY			
50886 T	A		A	CAGCAAGAAATAAAAAGGTTAATGTCCATTGATCCTAACTAGTCATGACTGGGATCGGCTATCCACCA			
50886 T	G		A	CAGCAAGAAATAAAAAGGTTAATGTCCACTGATCCTAACTAGTCATGACTGGGATCGGCTATCCACCA			
				CCTGACCAGCAAAGTCAAGGATGGTGGATAGCCGATCCCAGTCATGACTAGTTAGGATCA[AG]TGGACATTAACCTTT			
50886 IS	[AG]			TTATTTCTTGCTGTAAAATAGCAAGTTAACATTCTCTCTGATATT	ctg14824	1	
51775 I			S	TCAATACATCCAGAAAAGTGAATATTTGGTGGGGAATCCAGGAT			
51775 P	C		S	ATGACGTGGCAGACGAAGAAAAAGAAAAGCACAATTG			
51775 P	T		S	CGCGCCGAGGAAAGAAAAAGAAAAGCACAATTG			
51775 T	C		S	ATGGCAATTGTGCTTTTCTTTTTCTTCTCCTGGATTCCCCACCAAATATTCACTTTTCTGGATGTATTGATT			
51775 T	T		S	ATGGCAATTGTGCTTTTCTTTTTCTTTTCCTGGATTCCCCACCAAATATTCACTTTTCTGGATGTATTGATT			
				AATGATGATATTTTTAAGATAATTATGGCAATTGTGCTTTTCTTTTTCTT[CT]CCTGGATTCCCCACCAAATATTCACTT			
51775 IS	[CT]			TTCTGGATGTATTGATTCAACT	ctg14824	1	AGTR1
51780 I			A	ACGAGAGCATCATCTGCGGCATCACGTCA			
51780 P	C		A	ATGACGTGGCAGACCGTGGCCTTCTCCCV			
51780 P	T		A	CGCGCCGAGGTGTGGCCTTCTCCCV			
51780 T	C		A	CTGAGGGAGAAGGCCACGGACGTGATGCCGCAGATGATGCTCTCGTGG			
51780 T	T		A	CTGAGGGAGAAGGCCACAGACGTGATGCCGCAGATGATGCTCTCGTGG			
				GCGGGCAGACCAGGAGCTGATCTGCTTCTCCCACGAGAGCATCATCTGCGGCATCACGTC[CT]GTGGCCTTCTCCCT			
51780 IS	[CT]			CAGTGGCCGCCTACTATTCGCTGGCTACGACGACTTCAACTGCAAT	ctg5305	11	GNB3
51989 I			A	GCTCAGGTTACCCACTGTCTCACTGTTACCAGTATCACT			
51989 P	C		A	ATGACGTGGCAGACCGCATCATTCAACTGGATY			
51989 P	A		A	CGCGCCGAGGAGCATCATTCAACTGGATAAY			
51989 T	C		A	AATGTTATCCAGTTGAATGATGCGGTGATACTGGTAACAGTGAGACAGTGGGTAACCTGAGCCC			
51989 T	A		A	AATGTTATCCAGTTGAATGATGCTGTGATACTGGTAACAGTGAGACAGTGGGTAACCTGAGCCC			
				AGCCCACAGTTCTTCCTGCTGGGCTCAGGTTACCCACTGTCTCACTGTTACCAGTATCAC[CA]GCATCATTCAACTGG			
51989 IS	[CA]			ATAACATTCAGCATTCATACTGCTTTCCAACAACTAACTTGATGT	ctg5305	11	
52155 I			A	TCTCGAATTGCCGATTTGTCCTTCTGTCAGATAAAAA			
52155 P	T		A	CGCGCCGAGGTGCATGAAGTAAGCTGATGY			
52155 P	C		A	ATGACGTGGCAGACCGCATGAAGTAAGCTGATY			
52155 T	T		A	GAATCATCAGCTTACTTCATGCATTTTATCTGACAGAAGGACAAATCGGCAATTCGAGAGA			
52155 T	C		A	GAATCATCAGCTTACTTCATGCGTTTTATCTGACAGAAGGACAAATCGGCAATTCGAGAGA			
				AATCACCTAATAATTCTTTAAGTCTCTCGAATTGCCGATTTGTCCTTCTGTCAGATAAAA[TC]GCATGAAGTAAGCTGAT			
52155 IS	[TC]			GATTCTGAATAGGAACAGAACACGTTCTTGGTTGATTTAAAGT			
52283 I			A	CTCCAGGGCTAGGCAATTAACCTGCACACAAAA			
52283 P	T		A	CGCGCCGAGGTGCAAAACAGATCCACTTTY			
52283 P	C		A	ATGACGTGGCAGACCGCAAAACAGATCCACTY			
52283 T	T		A	TTAAAAAGTGGATCTGTTTTGCATTTGTGTGCAGGTTAATTGCCTAGCCCTGGAGAG			
52283 T	C		A	TTAAAAAGTGGATCTGTTTTGCGTTTGTGTGCAGGTTAATTGCCTAGCCCTGGAGAG			
				GTCCTCTTTCTCGTACCCCCCACAGCCTCTCCAGGGCTAGGCAATTAACCTGCACACAAA[TC]GCAAAACAGATCCAC			
52283 IS	[TC]			TTTTTAAACCTATCAGGATGATTTTCAGATCCTGAAAGACACTGA			
52298 I			S	CGCCAAGCCATGGTCCCTGCACCT			
52298 P	C		S	ATGACGTGGCAGACGAGTCCAGCCTGCTY			
52298 P	T		S	CGCGCCGAGGAAGTCCAGCCTGCTGY			
52298 T	C		S	AAGGCAGCAGGCTGGACTCGGTGCAGGGACCATGGCTTGGCGTG			
52298 T	T		S	AAGGCAGCAGGCTGGACTTGGTGCAGGGACCATGGCTTGGCGTG			
				ACACTCCTCCCCTCCCCCACACTCACAGTCTGTTCACCGCCCAAGGCAGCAGGCTGGACT[CT]GGTGCAGGGACCAT			
52298 IS	[CT]			GGCTTGGCGTGGCCAGGTTGGAGTGGCCCCTGGGACTGAAAGCAGG	ctg15665	20	
52829 I			A	TCTCCACAGGGGAGCATGGCCATCACT			
52829 P	A		A	CGCGCCGAGGACCTCGCTGCCTGY			
52829 P	C		A	ATGACGTGGCAGACCCCTCGCTGCCTGY			
52829 T	A		A	GCTGCAGGCAGCGAGGGTGTGATGGCCATGCTCCCCTGTGGAGAGC			
52829 T	C		A	GCTGCAGGCAGCGAGGGGTGATGGCCATGCTCCCCTGTGGAGAGC			
				GGTGAGCTGAAGGGGTGGCAGGGCAGGAGGTGGCTCTCCACAGGGGAGCATGGCCATCAC[AC]CCTCGCTGCCTG			
52829 IS	[AC]			CAGCAGGCTGTGTGATGGAGCACCTCCAGAGTTCAGTCCTGCACTTTC	ctg15285	12	
61197 I			S	CTTCCCGTCATCCCGTGTCTTGACCCCT			
61197 P	C		S	ATGACGTGGCAGACGCCCTTGCTGTTTCTCY			
61197 P	G		S	CGCGCCGAGGCCCCTTGCTGTTTCTCY			
61197 T	C		S	CTCAGAGAAACAGCAAGGGCGGGGTCAAGACACGGGATGACGGGAAGCA			
61197 T	G		S	CTCAGAGAAACAGCAAGGGGGGGGTCAAGACACGGGATGACGGGAAGCA			
				CGGCCGCTTTCCCTCTGGACCACCTCCCGCTGCGTTTCCTACTCAGAGAAACAGCAAGGG[CG]GGGGTCAAGACACG			
61197 IS	[CG]			GGATGACGGGAAGCAGGAAGCGGGGCAGCAGCACAGCGTGGGGTCC	ctg12387	2	
61321 I			A	AGAATACCAGTGAGGCAGGTGACTTCCTTTGGAAACT			
61321 P	A		A	CGCGCCGAGGAAAGAAATAGAGGAACATTTTCATTY			
61321 P	G		A	ATGACGTGGCAGACGAAGAAATAGAGGAACATTTTCATY			
61321 T	A		A	TCCTAATGAAAATGTTCCTCTATTTCTTTGTTTCCAAAGGAAGTCACCTGCCTCACTGGTATTCTCA			
61321 T	G		A	TCCTAATGAAAATGTTCCTCTATTTCTTCGTTTCCAAAGGAAGTCACCTGCCTCACTGGTATTCTCA			
				CCAAAACTCTCTATTATATGGCTGAGAATACCAGTGAGGCAGGTGACTTCCTTTGGAAAC[AG]AAGAAATAGAGGAAC			
61321 IS	[AG]			ATTTTCATTAGGACACAAACAATAACTAGAATAGTGTTTCAGCTC	MULTIPLE	MULTIPLE	
61440 I			S	TGCTTAACTAACTTGAGCCTTTGCTGTTAATGATATACTTCTTCT			
61440 P	T		S	CGCGCCGAGGAGCCTCCTTCTTTCCTTY			
61440 P	C		S	ATGACGTGGCAGACGGCCTCCTTCTTTCCTY			
61440 T	T		S	AGGAAAGGAAAGAAGGAGGCTGAAGAAGTATATCATTAACAGCAAAGGCTCAAGTTAGTTAAGCAAG			
61440 T	C		S	AGGAAAGGAAAGAAGGAGGCCGAAGAAGTATATCATTAACAGCAAAGGCTCAAGTTAGTTAAGCAAG			
				TCAACAAGATATCGTCACAGAGGACACAATAAAGAAAGCAAGGAAAGGAAGGAGGC[TC]GAAGAAGTATATCAT			
61440 IS	[TC]			TAACAGCAAAGGCTCAAGTTAGTTAAGCAAGACAAATGTGAGAAA	ctg210n2	21	
61929 I			S	TGGAAAACCCCCTGGAGGAAGCGCTCA			
61929 P	A		S	CGCGCCGAGGTTGTTGCAGTCGGAGTY			
61929 P	G		S	ATGACGTGGCAGACCTGTTGCAGTCGGAGTY			

FIGURE 129D

61929 T	A	S	GTTCACTCCGACTGCAACAAGAGCGCTTCCTCCAGGGGGTTTTCCAGG				
61929 T	G	S	GTTCACTCCGACTGCAACAGGAGCGCTTCCTCCAGGGGGTTTTCCAGG				
61929 IS	[AG]		CCAGAAAGGAATCCCCCTGCTGGTGGTTAAACAAGACGGGTGTTCACTCCGACTGCAACA[AG]GAGCGCTTCCTCCA GGGGGTTTTCCAGGAAGACCCTGAATGGAGGGCCCTGCAGGAGAGG	ctg17224	X	LOC64167	
61994 I		S	CAAGTTCCTCTGTTCTCCAAATTAAATAAAAAGCAAGAATTCTATTTGTT				
61994 P	T	S	CGCGCCGAGGAGCTCCTGGGAGAGAY				
61994 P	C	S	ATGACGTGGCAGACGGCTCCTGGGAGAGY				
61994 T	T	S	TTACTCTCTCCCAGGAGCTACAAATAGAATTCTTGCTTTTTATTTAATTTGGAGAACAGAGGAACTTGGG				
61994 T	C	S	TTACTCTCTCCCAGGAGCCACAAATAGAATTCTTGCTTTTTATTTAATTTGGAGAACAGAGGAACTTGGG				
61994 IS	[TC]		GCAATTGGGGAATTAATTCTGTAGGGTTGAAACACTGAGACTTTACTCTCTCCCAGGAGC[TC]ACAAATAGAATTCTTG CTTTTTATTTAATTTGGAGAACAGAGGAACTTGGGAATTAGATT	ctg25301	15		
62028 I		S	CTGAATTGCCGGAGTCGCGGCCTCA				
62028 P	G	S	ATGACGTGGCAGACCGCTGTGACCGCCY				
62028 P	A	S	CGCGCCGAGGTGCTGTGACCGCCY				
62028 T	G	S	CGGAGGCGGTCACAGCGGAGGCCGCGACTCCGGCAATTCAGCG				
62028 T	A	S	CGGAGGCGGTCACAGCAGAGGCCGCGACTCCGGCAATTCAGCG				
62028 IS	[GA]		GTGCCGACACGCCCAGTGAGGCCGAACAGAGGTTCCGGAAGAAGCGGAGGCGGTCACAGC[GA]GAGGCCGCGACT CCGGCAATTCAGCGATCTGTGGGTCCGCCTGGAGGAGAGGTCAGGCGA	ctg15343	2		
62478 I		A	TCTTTCTCCTATGAATGAACATAAAAACCTGGTAGAAACAAGCT				
62478 P	C	A	ATGACGTGGCAGACCCATTCTCAGGCTTATAAAACY				
62478 P	A	A	CGCGCCGAGGACATTCTCAGGCTTATAAAACAY				
62478 T	C	A	GGCTTGTTTTATAAGCCTGAGAATGGGCTTGTTTCTACCAGGTTTTTATGTTCATTCATAGGAGAAAGAAT				
62478 T	A	A	GGCTTGTTTTATAAGCCTGAGAATGTGCTTGTTTCTACCAGGTTTTTATGTTCATTCATAGGAGAAAGAAT				
62478 IS	[CA]		TTAATGTACAAAGAGATTCTTTCTCCTATGAATGAACATAAAAACCTGGTAGAAACAAGC[CA]CATTCTCAGGCTTATAA AACAAGCCTTTACAGATAATTATGTTTTATTACTCTTCATTTT	ctg14621	2		
62524 I		A	GAGACAAGCATAAGCAAATATTTAAATACTGTATTTTTTTTAAAAAAAGATTTGATTTGGT				
62524 P	G	A	ATGACGTGGCAGACGGCACCTGCTGCAY				
62524 P	A	A	CGCGCCGAGGAGCACCTGCTGCAY				
62524 T	G	A	GGTTTGCAGCAGGTGCCCCAAATCAAATCTTTTTTTAAAAAAAATACAGTATTTAAATATTTGCTTATGCTTGTCTC				
62524 T	A	A	GGTTTGCAGCAGGTGCTCCAAATCAAATCTTTTTTTAAAAAAAATACAGTATTTAAATATTTGCTTATGCTTGTCTC				
62524 IS	[GA]		GAGACAAGCATAAGCAAATATTTAAATACTGTATTTTTTTTAAAAAAAGATTTGATTTGG[GA]GCACCTGCTGCAAACCT CTCCCACTCAGTATCGCCAAGGCTGTAGGGTCCAGGTGTCCCC	ctg21fin2	21		
62569 I		A	TCCGAGGGTTTGTTCCAGATTGTTTTGGGTAATTTTAAAATTTTATTTCACACTAAA				
62569 P	T	A	CGCGCCGAGGTTTTATTCTAGGAATCGCTTCTY				
62569 P	C	A	ATGACGTGGCAGACCTTTATTCTAGGAATCGCTTCTY				
62569 T	T	A	ATGAAGAAGCGATTCCTAGAATAAAATTAGTGTGAAATAAAATTTTAAAATTACCCAAAACAATCTGGAACAAACCCTCG GATG				
62569 T	C	A	ATGAAGAAGCGATTCCTAGAATAAAGTTAGTGTGAAATAAAATTTTAAAATTACCCAAAACAATCTGGAACAAACCCTCG GATG				
62569 IS	[TC]		GTCATCCGAGGGTTTGTTCCAGATTGTTTTGGGTAATTTTAAAATTTTATTTCACACTAA[TC]TTTATTCTAGGAATCGC TTCTTCATCTTACTGAAGTTTTGATGCGACGTTATAGTTATTT	ctg17326	12		
62730 I		S	GAGGTCAAAGGTGCAGACAGCATTAGGACT				
62730 P	C	S	ATGACGTGGCAGACGAAAGTGAAGAGTGAGGTTTY				
62730 P	T	S	CGCGCCGAGGAAAAGTGAAGAGTGAGGTTTY				
62730 T	C	S	ACCCAAACCTCACTCTTCACTTTCGTCCTAATGCTGTCTGCACCTTTGACCTCAC				
62730 T	T	S	ACCCAAACCTCACTCTTCACTTTTGTCCTAATGCTGTCTGCACCTTTGACCTCAC				
62730 IS	[CT]		ATTATTTTAATATAAACTTTACCCAAATGACAGCCTCACCCAAACCTCACTCTTCACTTT[CT]GTCCTAATGCTGTCTGC ACCTTTGACCTCACATACTATAACATTGGTCCCTTTTAGCTCA	ctg17326	12		
62811 I		S	TCAACTCTAGTCTCTTAGCTAATCTTAACATGTCTCCCTTTCAGTCTGTT				
62811 P	C	S	ATGACGTGGCAGACGCTGATAGAAAACACCTCTCY				
62811 P	T	S	CGCGCCGAGGACTGATAGAAAACACCTCTCTY				
62811 T	C	S	AACTAGAGAGGTGTTTTCTATCAGCACAGACTGAAAGGGAGACATGTTAAGATTAGCTAAGAGACTAGAGTTGAGG				
62811 T	T	S	AACTAGAGAGGTGTTTTCTATCAGTACAGACTGAAAGGGAGACATGTTAAGATTAGCTAAGAGACTAGAGTTGAGG				
62811 IS	[CT]		CAAGGAGGCATCAGAGATACTGAGAAAGGACATGACAACTAGAGAGGTGTTTTCTATCAG[CT]ACAGACTGAAAGGGA GACATGTTAAGATTAGCTAAGAGACTAGAGTTGAGGGGTTAGGAT	ctg17326	12		
63093 I		S	CTGCTCCTTCTAGAAAATGCTCCATGGGACTCTCTCA				
63093 P	G	S	ATGACGTGGCAGACCCATCTCTTGGTGCCAY				
63093 P	A	S	CGCGCCGAGGTCATCTCTTGGTGCCAY				
63093 T	G	S	CAGATGGCACCAAGAGATGGGAGAGAGTCCCATGGAGCATTTTCTAGAAGGAGCAGAT				
63093 T	A	S	CAGATGGCACCAAGAGATGAGAGAGAGTCCCATGGAGCATTTTCTAGAAGGAGCAGAT				
63093 IS	[GA]		GCTCCATTTCCCCACCCAAATGTAGCACGCTGGTGGTATGCCAGATGGCACCAAGAGATG[GA]GAGAGAGTCCCATG GAGCATTTTCTAGAAGGAGCAGATGTCCTTCACAGACTCCTGGAGT	ctg17326	12		
63131 I		S	GCCTGCTCCCAGCAGCGTTTGCCT				
63131 P	T	S	CGCGCCGAGGAGCATTAATTATCATTAAGAGGGY				
63131 P	C	S	ATGACGTGGCAGACGGCATTAATTATCATTAAGAGGGY				
63131 T	T	S	GGCCCCCTCTTAATGATAATTAATGCTGGCAAACGCTGCTGGGAGCAGGCCC				
63131 T	C	S	GGCCCCCTCTTAATGATAATTAATGCCGGCAAACGCTGCTGGGAGCAGGCCC				
63131 IS	[TC]		GTGGAGCAGGGGAGAGTTAGAGAGAGATGAGCAAGGCCCCCTCTTAATGATAATTAATGC[TC]GGCAAACGCTGCTG GGAGCAGGCCCTGGTCTGTATTCATGAGGTGTGGGGGAGTATTGAT				
63288 I		S	GGCCCAGGGAGAAAAAGGGTCATGAATGTAGCT				
63288 P	G	S	CGCGCCGAGGCACTGCTCCCAAAGATGY				
63288 P	C	S	ATGACGTGGCAGACGACTGCTCCCAAAGATGY				
63288 T	G	S	TGCCCATCTTTGGGAGCAGTGGCTACATTCATGACCCTTTTTCTCCCTGGGCCAT				
63288 T	C	S	TGCCCATCTTTGGGAGCAGTCGCTACATTCATGACCCTTTTTCTCCCTGGGCCAT				
63288 IS	[GC]		AAGCGGGGTTGGAGGTGGTTTTCCTGTCGTAGCCTAGATGTGCCCATCTTTGGGAGCAGT[GC]GCTACATTCATGAC CCTTTTTCTCCCTGGGCCATGAATCTGGCCTTTGGAAGAGCTGGGA	ctg17748	14		
63326 I		S	TGGAAGGTGGTATCTGATATGGCCTCTGGGCA				
63326 P	G	S	ATGACGTGGCAGACCTCACTGCCCTTCTAGTY				
63326 P	A	S	CGCGCCGAGGTTCACTGCCCTTCTAGTY				
63326 T	G	S	AGGGACTAGAAGGGCAGTGAGGCCCAGAGGCCATATCAGATACCACCTTCCACA				
63326 T	A	S	AGGGACTAGAAGGGCAGTGAAGCCCAGAGGCCATATCAGATACCACCTTCCACA				
63326 IS	[GA]		TTTCCCTATACCATCTGTGCTAAAATAGCCAAGAGAACACAGGGACTAGAAGGGCAGTGA[GA]GCCCAGAGGCCATAT CAGATACCACCTTCCACAGCCCAGAAGACAAGGGCAGCCTGGAAA	ctg14508	3		
63346 I		A	CTTTGTACCACATTAAAAGGCACATGGGGCTAGTTCTTATTCTTTTTA				
63346 P	T	A	CGCGCCGAGGTGTGATGTTCAAAATTAATTAGCAY				
63346 P	C	A	ATGACGTGGCAGACCGTGATGTTCAAAATTAATTAGCY				
63346 T	T	A	GAAATGCTAATTAATTTTGAACATCACAAAAAAGAATAAGAACTAGCCCCATGTGCCTTTTAATGTGGTACAAAGGG				
63346 T	C	A	GAAATGCTAATTAATTTTGAACATCACGAAAAAGAATAAGAACTAGCCCCATGTGCCTTTTAATGTGGTACAAAGGG				

FIGURE 129D

				CTGTAAGCTTCCCCTTTGTACCACATTAAAAGGCACATGGGGCTAGTTCTTATTCTTTTT[TC]GTGATGTTCAAAATTAA		
63346 IS	[TC]			TTAGCATTTCAGAGGTCACCAGCCTGGTCCAGCCACTGCAAGT	ctg14508	3
63372 I			A	TGTGTGGGAAATCAGACAAGCTAGAGCCAT		
63372 P	A		A	CGCGCCGAGGATTCCTGCAGGGAGGY		
63372 P	G		A	ATGACGTGGCAGACGTTCCTGCAGGGAGGY		
63372 T	A		A	TAGCCCTCCCTGCAGGAATTGGCTCTAGCTTGTCTGATTTCCCACACATA		
63372 T	G		A	TAGCCCTCCCTGCAGGAACTGGCTCTAGCTTGTCTGATTTCCCACACATA		
				AACAAAAAGTCAGTAAGAGGGCATGATTTTATGTGTGGGAAATCAGACAAGCTAGAGCCA[AG]TTCCTGCAGGGAGGG		
63372 IS	[AG]			CTAGAATGGGAAAGCAGCTGACTCAGTCCCAAGTGCTCAGTACTA	ctg832	11
63412 I			A	TGGATGTGATGTACTTCAAGGCATTTTTGAACTATATTTGAGAATT		
63412 P	A		A	CGCGCCGAGGATTAAAGTAATATTGCCAAAACAATGY		
63412 P	G		A	ATGACGTGGCAGACGTTAAAGTAATATTGCCAAAACAATY		
63412 T	A		A	ATTACATTGTTTTGGCAATATTACTTTAATATTCTCAAATATAGTTCAAAAATGCCTTGAAGTACATCACATCCATC		
63412 T	G		A	ATTACATTGTTTTGGCAATATTACTTTAACATTCTCAAATATAGTTCAAAAATGCCTTGAAGTACATCACATCCATC		
				ACTTGAATAATAAGATGGATGTGATGTACTTCAAGGCATTTTTGAACTATATTTGAGAAT[AG]TTAAAGTAATATTGCCA		
63412 IS	[AG]			AAACAATGTAATGGAGGATGTTACAAACTGTTAAATGTATTCA	ctg832	11
63417 I			S	CATGGTTGATACATGCCAACTCCTGACATGGGAATTTTCT		
63417 P	T		S	CGCGCCGAGGAAGCACACCAAAGTCY		
63417 P	C		S	ATGACGTGGCAGACGGAAGCACACCAAAGTCY		
63417 T	T		S	CAGAGACTTTGGTGTGCTTCTGAAAATTCCCATGTCAGGAGTTGGCATGTATCAACCATGTG		
63417 T	C		S	CAGAGACTTTGGTGTGCTTCCGAAAATTCCCATGTCAGGAGTTGGCATGTATCAACCATGTG		
				AAATTGGATGTTATGTGATTAAAAATAAATGTAAATCACACAGAGACTTTGGTGTGCTTC[TC]GAAAATTCCCATGTCAG		
63417 IS	[TC]			GAGTTGGCATGTATCAACCATGTGTAGGTGTGTGTGCTCAC	ctg832	11
63460 I			A	GGCATTTCTGCAAAATTACGTTTTTCCAGTATCTGTGAGT		
63460 P	G		A	ATGACGTGGCAGACGGGTATTACTACTTTTTCATCTTCY		
63460 P	A		A	CGCGCCGAGGAGGTATTACTACTTTTTCATCTTCAY		
63460 T	G		A	TAGTTGAAGATGAAAAAGTAGTAATACCCCTCACAGATACTGGAAAAACGTAATTTTGCAGAAATGCCAT		
63460 T	A		A	TAGTTGAAGATGAAAAAGTAGTAATACCTCTCACAGATACTGGAAAAACGTAATTTTGCAGAAATGCCAT		
				TTATGTAGTAATTTGAAAGATGGCATTTCTGCAAAATTACGTTTTTCCAGTATCTGTGAG[GA]GGTATTACTACTTTTTC		
63460 IS	[GA]			ATCTTCAACTAAAGTAATAAATATTGGAATTTTTCCTTGACAG		
63476 I			S	CATAATGGTGTGTGTTCATCTCAGACAAAGGAAGAGAATAT		
63476 P	T		S	CGCGCCGAGGAGATTTCAGCTAAATATGAATGTTTY		
63476 P	G		S	ATGACGTGGCAGACCGATTTCAGCTAAATATGAATGTY		
63476 T	T		S	CATAAAACATTCATATTTAGCTGAAATCTTATTCTCTTCCTTTGTCTGAGATGAACACACACCATTATGAT		
63476 T	G		S	CATAAAACATTCATATTTAGCTGAAATCGTATTCTCTTCCTTTGTCTGAGATGAACACACACCATTATGAT		
				ATAGAATAAGAAACAGTAACTGAACTTAGATACATAAAACATTCATATTTAGCTGAAATC[TG]TATTCTCTTCCTTTGTCT		
63476 IS	[TG]			GAGATGAACACACACCATTATGATTGATGAGAAATATAAAAA	ctg832	11
63534 I			S	TCATGCTTTGGACAGAAAGCATCACTAATTAAAGGAAGAA		
63534 P	G		S	ATGACGTGGCAGACCTGCTTGAAATACTGTTTATTAGAAY		
63534 P	A		S	CGCGCCGAGGTTGCTTGAAATACTGTTTATTAGAAY		
63534 T	G		S	AACTTTCTAATAAACAGTATTTCAAGCAGTCTTCCTTTAATTAGTGATGCTTTCTGTCCAAAGCATGAAG		
63534 T	A		S	AACTTTCTAATAAACAGTATTTCAAGCAATCTTCCTTTAATTAGTGATGCTTTCTGTCCAAAGCATGAAG		
				TCTGATATGAAACAAAATAGGTAATTAGGAAGAACTTTCTAATAAACAGTATTTCAAGCA[GA]TCTTCCTTTAATTAGTG		
63534 IS	[GA]			ATGCTTTCTGTCCAAAGCATGAAGAAAAGAGAGGCTTCTGGAA	ctg832	11
63690 I			S	CATACCATGCCAAAGTCAAACTGTCTTTAGAAAAGCTT		
63690 P	T		S	CGCGCCGAGGATACTATTTGTTCATTCAATGATGGY		
63690 P	C		S	ATGACGTGGCAGACGTACTATTTGTTCATTCAATGATGGY		
63690 T	T		S	ATGACCATCATTGAATGAACAAATAGTATAGCTTTTCTAAAGACAGTTTGACTTTGGCATGGTATGTT		
63690 T	C		S	ATGACCATCATTGAATGAACAAATAGTACAGCTTTTCTAAAGACAGTTTGACTTTGGCATGGTATGTT		
				ATCTGGGCCAGATTTGGAATACGGACCTGACTATGACCATCATTGAATGAACAAATAGTA[TC]AGCTTTTCTAAAGACA		
63690 IS	[TC]			GTTTGACTTTGGCATGGTATGTTTCACTTACTTTAACAGGTTTC	ctg832	11
63890 I			A	GCAATATCTATTTTCTTCTCTGTATGTTTTCCCCAAATTCTTTACAATACACT		
63890 P	A		A	CGCGCCGAGGATGCTATTTTTTACACTTTAAAAAGCY		
63890 P	G		A	ATGACGTGGCAGACGTGCTATTTTTTACACTTTAAAAAGCY		
63890 T	A		A	TAATGCTTTTTAAAGTGTAAAAAATAGCATGTGTATTGTAAAGAATTTGGGGAAAACATACAGAGAAGAAAATAGATATT GCCA		
63890 T	G		A	TAATGCTTTTTAAAGTGTAAAAAATAGCACGTGTATTGTAAAGAATTTGGGGAAAACATACAGAGAAGAAAATAGATATT GCCA		
				GAATTATGGCAATATCTATTTTCTTCTCTGTATGTTTTCCCCAAATTCTTTACAATACAC[AG]TGCTATTTTTTACACTTT		
63890 IS	[AG]			AAAAAGCATTACATTTAGAGTAGCTGGTGACTTAGCTATAAA	ctg832	11
64076 I			S	CTCTAAGTTCTCAAACTCTGAAATGCTCTGCTTCGACCAAAAT		
64076 P	G		S	ATGACGTGGCAGACCCTCTCATTTCTTCCTTGCY		
64076 P	T		S	CGCGCCGAGGACTCTCATTTCTTCCTTGCY		
64076 T	G		S	TAAAGCAAGGAAGAAATGAGAGGTTTTGGTCGAAGCAGAGCATTTCAGAGTTTGAGAACTTAGAGGC		
64076 T	T		S	TAAAGCAAGGAAGAAATGAGAGTTTTTGGTCGAAGCAGAGCATTTCAGAGTTTGAGAACTTAGAGGC		
				AGGGCTTAAGGGCAAAGAACAAGTTTAATAGGAAAAGTTAAAGCAAGGAAGAAATGAGAG[GT]TTTTGGTCGAAGCAG		
64076 IS	[GT]			AGCATTTCAGAGTTTGAGAACTTAGAGGCGGAGAAGTTTAGAGTT	ctg22fin7	22
64381 I			S	GGAAACTGTGGCCTCCGTGGAGGCAT		
64381 P	T		S	CGCGCCGAGGATAAAGCGTCAATATTTCAGCY		
64381 P	C		S	ATGACGTGGCAGACGTAAAGCGTCAATATTTCAGCY		
64381 T	T		S	AACTGCTGAAATATTGACGCTTTATTGCCTCCACGGAGGCCACAGTTTCCTT		
64381 T	C		S	AACTGCTGAAATATTGACGCTTTACTGCCTCCACGGAGGCCACAGTTTCCTT		
				GATGGAGCAGGTTTCAGTGTAAACAAGCGTGTGAATAACTGCTGAAATATTGACGCTTTA[TC]TGCCTCCACGGAGGC		
64381 IS	[TC]			CACAGTTTCCTTTATTTTATGATGGTACTTGAAATAATGTTTGAT	ctg17450	X
64436 I			S	CTAACGTTTTGTTTCAAAGTTATACAGGCTGTTAGGAAATTTTCAT		
64436 P	T		S	CGCGCCGAGGATGATATAAAGGCCTTTAAGACGY		
64436 P	C		S	ATGACGTGGCAGACGTGATATAAAGGCCTTTAAGACY		
64436 T	T		S	GTTGCGTCTTAAAGGCCTTTATATCATTGAAAATTTCCTAACAGCCTGTATAACTTTGAAACAAAACGTTAGTG		
64436 T	C		S	GTTGCGTCTTAAAGGCCTTTATATCACTGAAAATTTCCTAACAGCCTGTATAACTTTGAAACAAAACGTTAGTG		
				GAACTACTATCTGAAATCTCGAATACAATTAGTCGTTGCGTCTTAAAGGCCTTTATATCA[TC]TGAAAATTTCCTAACAG		
64436 IS	[TC]			CCTGTATAACTTTGAAACAAAACGTTAGTGTTATAATTCAATA	ctg25448	18
64547 I			S	CCAGTGTGCTTTGATTTCTTCAGGTTTCACAAGAAT		
64547 P	T		S	CGCGCCGAGGAGCAGTGTAGATGAGGTAAY		
64547 P	C		S	ATGACGTGGCAGACGGCAGTGTAGATGAGGTY		
64547 T	T		S	TCTTTTACCTCATCTACACTGCTTTCTTGTGAAACCTGAAGAAATCAAAGCACACTGGTA		

FIGURE 129D

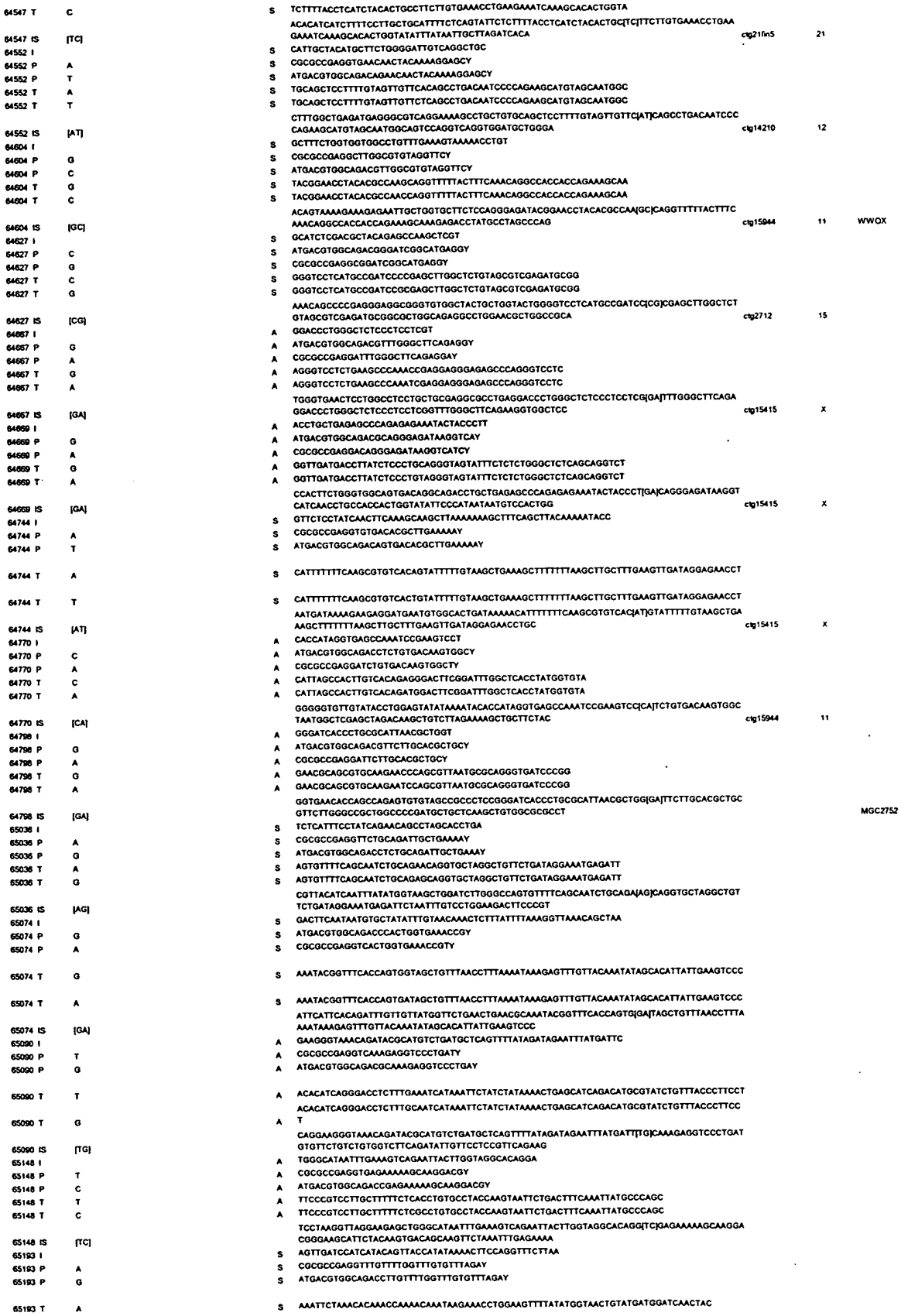
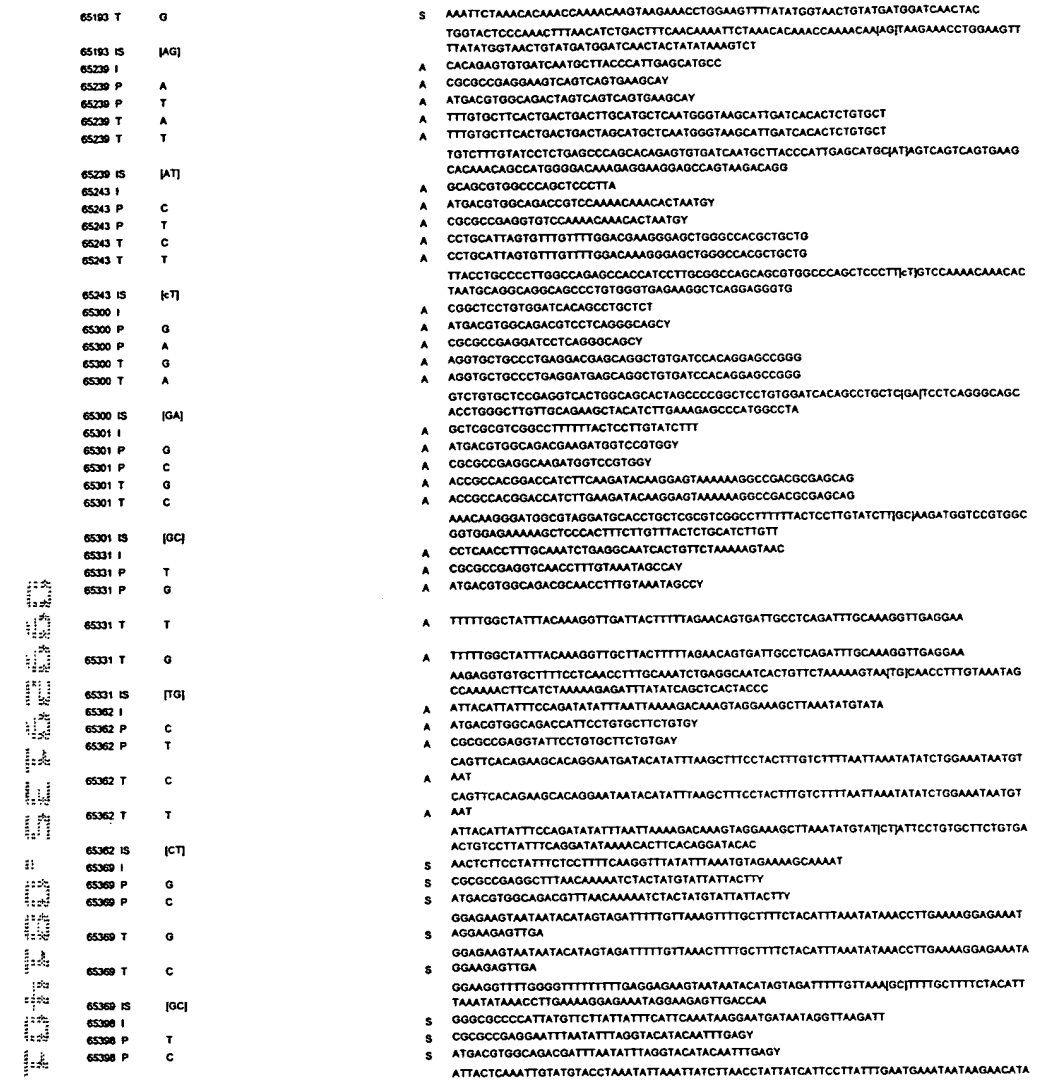


FIGURE 129D



			AAAGAATTAACAAAGCTAAAAGAAGAGCTCATTGATGGTAAGTGTCTGGACAAATTTACT[AG]TTCCTATAAAACAATGT
65524 IS	[AG]		TTAAGATTGACCATTTTTAAGAAAATGCAAATAAGGAAATACC
65538 I		S	GTGTGACAAGGCCAAGCACTCCATAACTTTACCCC
65538 P	A	S	CGCGCCGAGGTGATTGTTTGGTCTTTTTCAAAY
65538 P	C	S	ATGACGTGGCAGACGGATTGTTTGGTCTTTTTCAAY
65538 T	A	S	ACATTTTGAAAAAGACCAAACAATCAGGGTAAAGTTATGGAGTGCTTGGCCTTGTCACACAG
65538 T	C	S	ACATTTTGAAAAAGACCAAACAATCCGGGTAAAGTTATGGAGTGCTTGGCCTTGTCACACAG
			GAAGCAACTTCACAAATTTCTTTTTGAAACTCTAAACATTTTGAAAAAGACCAAACAATC[AC]GGGTAAAGTTATGGAGT
65538 IS	[AC]		GCTTGGCCTTGTCACACAGGTACAGACACAGTGTAGATGGTAT
65539 I		A	CAAAATCTGGATGTGTAAGCTACTTTGAGTATAGCTACCCAAAATCTGGT
65539 P	C	A	ATGACGTGGCAGACCTGTAAAAGCACTTTTATTCAGATY
65539 P	A	A	CGCGCCGAGGATGTAAAAGCACTTTTATTCAGATY
65539 T	C	A	GAACATCTGAATAAAAGTGCTTTTACAGCCAGATTTTGGGTAGCTATACTCAAAGTAGCTTACACATCCAGATTTTGAG
65539 T	A	A	GAACATCTGAATAAAAGTGCTTTTACATCCAGATTTTGGGTAGCTATACTCAAAGTAGCTTACACATCCAGATTTTGAG
			GCTTCTGAACTCAAAATCTGGATGTGTAAGCTACTTTGAGTATAGCTACCCAAAATCTGG[CA]TGTAAAAGCACTTTTA
65539 IS	[CA]		TTCAGATGTTCATATTTCAGCTTATTGGATGAAACATGAATTCT
65664 I		A	AGACAGAAATTGACTTATCTTAAACCTTGTATTCCAAGTGTTAAGCA
65664 P	C	A	ATGACGTGGCAGACCCATTCCTGCATATAATACAGTY
65664 P	T	A	CGCGCCGAGGTCATTCCTGCATATAATACAGTTY
65664 T	C	A	ATTAAACTGTATTATATGCAGGAATGGGCTTAACACTTGGAATACAAGGTTTAAGATAAGTCAATTTCTGTCTTC
65664 T	T	A	ATTAAACTGTATTATATGCAGGAATGAGCTTAACACTTGGAATACAAGGTTTAAGATAAGTCAATTTCTGTCTTC
			TAAATGATTCATGAAGACAGAAATTGACTTATCTTAAACCTTGTATTCCAAGTGTTAAGC[CT]CATTCCTGCATATAATA
65664 IS	[CT]		CAGTTTAATAAATATTTACAAAGGTAAGAAGAAAGGAAAGAGC
65675 I		A	ACTACCCAATTTACCTGTTTTAATAGCATACTCGTTATCAGGAT
65675 P	A	A	CGCGCCGAGGATTAATGAATAAAACTCACTGATGTY
65675 P	G	A	ATGACGTGGCAGACGTTAATGAATAAAACTCACTGATGTY
65675 T	A	A	TGTCACATCAGTGAGTTTTATTCATTAATTCCTGATAACGAGTATGCTATTAAAACAGGTAAATTGGGTAGTTC
65675 T	G	A	TGTCACATCAGTGAGTTTTATTCATTAACTCCTGATAACGAGTATGCTATTAAAACAGGTAAATTGGGTAGTTC
			TTTAGAAAATAATTTGAACTACCCAATTTACCTGTTTTAATAGCATACTCGTTATCAGGA[AG]TTAATGAATAAAACTCAC
65675 IS	[AG]		TGATGTGACAAAACTTTAGCAAAATGCAAACACCACATCAGG
65689 I		S	GCACCACTTAGTAGTCGATTTCTCTCCAATTGAAGTAACTTCAAATACTGAAT
65689 P	C	S	ATGACGTGGCAGACGTTTAGTTCTCAGGAAGATCAY
65689 P	T	S	CGCGCCGAGGATTTAGTTCTCAGGAAGATCACY
65689 T	C	S	ATAAGTGATCTTCCTGAGAACTAAACTTCAGTATTTGAAGTTACTTCAATTGGAGAGAAATCGACTACTAAGTGGTGCC A
65689 T	T	S	ATAAGTGATCTTCCTGAGAACTAAATTTCAGTATTTGAAGTTACTTCAATTGGAGAGAAATCGACTACTAAGTGGTGCC A
			GCAAGGCAAAGAAACAGTCTGGAGAGGGCTGCAAAATAAGTGATCTTCCTGAGAACTAAA[CT]TTCAGTATTTGAAGTT
65689 IS	[CT]		ACTTCAATTGGAGAGAAATCGACTACTAAGTGGTGCCATGCAGA
65697 I		S	GTGTATCTTTTATTAGTAGACTTGCAGTGGGGAGTAGGAATAA
65697 P	A	S	CGCGCCGAGGTGCAGGATGTTATGACAAATY
65697 P	G	S	ATGACGTGGCAGACCGCAGGATGTTATGACAAY
65697 T	A	S	TATTATTTGTCATAACATCCTGCATATTCCTACTCCCCACTGCAAGTCTACTAATAAAAGATACACTA
65697 T	G	S	TATTATTTGTCATAACATCCTGCGTATTCCTACTCCCCACTGCAAGTCTACTAATAAAAGATACACTA
			AAATTAAAGGAAAAATCAGAATAGAAAATCTAACCATTATTATTTGTCATAACATCCTGC[AG]TATTCCTACTCCCCACT
65697 IS	[AG]		GCAAGTCTACTAATAAAAGATACACTAAATTATGCAATCTTCT
65759 I		A	AATTATTTCCCCATAAGCACTAACTGTGCATCACAAATTATGT
65759 P	C	A	CGCGCCGAGGCTGTCTAAAAGACATACCACAY
65759 P	G	A	ATGACGTGGCAGACGTGTCTAAAAGACATACCACAY
65759 T	C	A	CTCTTGTGGTATGTCTTTTAGACAGCATAATTTGTGATGCACAGTTAGTGCTTATGGGGAAATAATTGA
65759 T	G	A	CTCTTGTGGTATGTCTTTTAGACACCATAATTTGTGATGCACAGTTAGTGCTTATGGGGAAATAATTGA
			ATTGCTTTTAATCTATTCAATTATTTCCCCATAAGCACTAACTGTGCATCACAAATTATG[CG]TGTCTAAAAGACATACC
65759 IS	[CG]		ACAAGAGTTAAAGCTGGGAAGATTCATTGTCATTCTCTAATGG
65811 I		A	AGGTCAGTATTGGAAATGAGCTAAGGTTTTCATTATGAACTAAAAAGC
65811 P	G	A	ATGACGTGGCAGACGATCTTTAAAAGAATATTTTTGGTCTAAY
65811 P	T	A	CGCGCCGAGGTATCTTTAAAAGAATATTTTTGGTCTAACY
65811 T	G	A	ATTAGTTAGACCAAAAATATTCTTTTAAAGATCCTTTTTAGTTCATAATGAAAACCTTAGCTCATTTCCAATACTGACCTC T
65811 T	T	A	ATTAGTTAGACCAAAAATATTCTTTTAAAGATACTTTTTAGTTCATAATGAAAACCTTAGCTCATTTCCAATACTGACCTC T
			TTAGAATATTTAGAGGTCAGTATTGGAAATGAGCTAAGGTTTTCATTATGAACTAAAAAG[GT]ATCTTTAAAAGAATATT
65811 IS	[GT]		TTTGGTCTAACTAATAAAATAAAAACACAGTGGCTTAACTGTC
65827 I		S	TCACCCTAAGACTGTGTTTCTCCTTCCAGTAATAGGATACGAGT
65827 P	G	S	CGCGCCGAGGCTACTTGTCTGAGAACATGTAAY
65827 P	C	S	ATGACGTGGCAGACGTACTTGTCTGAGAACATGTAAY
65827 T	G	S	CCAGTTACATGTTCTCAGACAAGTAGCTCGTATCCTATTACTGGAAGGAGAAACACAGTCTTAGGGTGACA
65827 T	C	S	CCAGTTACATGTTCTCAGACAAGTACCTCGTATCCTATTACTGGAAGGAGAAACACAGTCTTAGGGTGACA
			AGTAAGGGCCTCAGATCACTACATAAAAGTCTACTCCAGTTACATGTTCTCAGACAAGTA[GC]CTCGTATCCTATTACT
65827 IS	[GC]		GGAAGGAGAAACACAGTCTTAGGGTGACAAGGAAGTAAAGTGAC
65876 I		S	CCGAATGAACAAAATCCAGAGGGAGTGAAGTTGGCA
65876 P	G	S	ATGACGTGGCAGACCCCAGTGATATGGAGGGY
65876 P	A	S	CGCGCCGAGGTCCAGTGATATGGAGGGY
65876 T	G	S	CCAGCCCTCCATATCACTGGGGCCAACTTCACTCCCTCTGGATTTTGTTCATTCGGTA
65876 T	A	S	CCAGCCCTCCATATCACTGGAGCCAACTTCACTCCCTCTGGATTTTGTTCATTCGGTA
			ACTGCTCTGTTTCAGCCTGTGCCTCTCAGTTCTGCCCCACCCAGCCCTCCATATCACTGG[GA]GCCAACTTCACTCCC
65876 IS	[GA]		TCTGGATTTTGTTCATTCGGTAGGGATCCAAGCATTCTAGAAACA
65926 I		A	CCTTATTTCAGTTGCTTTTCATAATAGTACTTATTCTATCAGTTTGACGGAT
65926 P	A	A	CGCGCCGAGGAAAACAAAGGCTTAGGAAGAY
65926 P	G	A	ATGACGTGGCAGACGAAACAAAGGCTTAGGAAGAY
65926 T	A	A	AGAATCTTCCTAAGCCTTTGTTTTTCCGTCAAACTGATAGAATAAGTACTATTATGAAAAGCAACTGAAATAAGGTA
65926 T	G	A	AGAATCTTCCTAAGCCTTTGTTTCTCCGTCAAACTGATAGAATAAGTACTATTATGAAAAGCAACTGAAATAAGGTA
			TGTTCTATACCTTATTTCAGTTGCTTTTCATAATAGTACTTATTCTATCAGTTTGACGGA[AG]AACAAAGGCTTAGGAA
65926 IS	[AG]		GATTCTTAGTAAAAGCTTCAAATGTAAGTATTAGATCTCAAAC
65939 I		S	GGCCCCCAGCTACAGCATCATATCCAAAAAGGA
65939 P	A	S	CGCGCCGAGGTTGGGCAACAACCAAGY

FIGURE 129D

```
65039 P   G          S  ATGACGTGGCAGACCTGGGCAACAACCAAGY
65039 T   A          S  ATAGCTTGGTTGTTGCCCAACCTTTTTGGATATGATGCTGTAGCTGGGGGCCTT
65039 T   G          S  ATAGCTTGGTTGTTGCCCAGCCTTTTTGGATATGATGCTGTAGCTGGGGGCCTT
                        TTTAGGCCTAGCATCATCCTCATCTCCTAGAAGTGGCCAGAATAGCTTGGTTGTTGCCCA[AG]CCTTTTTGGATATGAT
                        GCTGTAGCTGGGGGCCTTTAGATCCAGGGGTAAGGAGAGTGCTA
65039 IS  [AG]
65060 I              A  GCAAAGGCTGGAGACCCGGAACCCC
65060 P   T          A  CGCGCCGAGGTCTAAGTCCCAGCCTCY
65060 P   A          A  ATGACGTGGCAGACACTAAGTCCCAGCCTCY
65060 T   T          A  GGCTGAGGCTGGGACTTAGAGGGTTCCGGGTCTCCAGCCTTTGCAG
65060 T   A          A  GGCTGAGGCTGGGACTTAGTGGGTTCCGGGTCTCCAGCCTTTGCAG
                        CCCCCGACAGCAGAGGGCAGCAGCAGAGAGGTACCTGCAAAGGCTGGAGACCCGGAACCC[TA]CTAAGTCCCAGCC
                        TCAGCCTGGGCACTCTGTGAAGTCACCAAGTTAGGTTCAAAAATGAA
65060 IS  [TA]
66038 I              A  CGTATTGCCTACTCCACCTCCTAACCAAGGACCC
66038 P   T          A  CGCGCCGAGGTCATTCTGAGTTAAAAATCTCAGTY
66038 P   G          A  ATGACGTGGCAGACGCATTCTGAGTTAAAAATCTCAGY
66038 T   T          A  GAACACTGAGATTTTTAACTCAGAATGAGGTCCTTGGTTAGGAGGTGGAGTAGGCAATACGGG
66038 T   G          A  GAACACTGAGATTTTTAACTCAGAATGCGGTCCTTGGTTAGGAGGTGGAGTAGGCAATACGGG
                        TATTTCCTGATGGAACTTTTATGGGCCCGTATTGCCTACTCCACCTCCTAACCAAGGACC[TG]CATTCTGAGTTAAAAA
                        TCTCAGTGTTCAGCTGAAATTATCAAGGGTGGAGAAAGGGCTGG
66038 IS  [TG]
66048 I              A  TTCTTTGAGAGAGCAGGCAGGAGAGAGGTGTGT
66048 P   G          A  ATGACGTGGCAGACGTGTCTTTTCCCAGAAGAAY
66048 P   A          A  CGCGCCGAGGATGTCTTTTCCCAGAAGAAAAY
66048 T   G          A  TTTATTTTCTTCTGGGAAAAGACACCACACCTCTCTCCTGCCTGCTCTCTCAAAGAAGA
66048 T   A          A  TTTATTTTCTTCTGGGAAAAGACATCACACCTCTCTCCTGCCTGCTCTCTCAAAGAAGA
                        AAAGTACTACCCTCCCGTGTATTCAATCTTCTTTGAGAGAGCAGGCAGGAGAGAGGTGTG[GA]TGTCTTTTCCCAGAA
                        GAAAATAAAATTTATTCCTCTAAAGGAAAATTAGCTTTATTCAAG
66048 IS  [GA]
66085 I              A  GTGTGACTGTGCACAGAAATAGTTAGCAAAGGCAACTCTTATC
66085 P   T          A  CGCGCCGAGGTTGACACTAATGGCTGTTACY
66085 P   A          A  ATGACGTGGCAGACATGACACTAATGGCTGTTACY

66085 T   T          A  ACCAGTAACAGCCATTAGTGTCAAATAAGAGTTGCCTTTGCTAACTATTTCTGTGCACAGTCACACAA

66085 T   A          A  ACCAGTAACAGCCATTAGTGTCATATAAGAGTTGCCTTTGCTAACTATTTCTGTGCACAGTCACACAA
                        GAAAACTCAGAGCATGTTGTGTGACTGTGCACAGAAATAGTTAGCAAAGGCAACTCTTAT[TA]TGACACTAATGGCTGT
                        TACTGGTTTCCCATACTAATGAGATCCACCATACCCTATCACAA
66085 IS  [TA]
65124 I              S  GGAAAGTACCAGGGCTGCCTTGGAGTGGT
65124 P   T          S  CGCGCCGAGGAGAAGGAGGAGTGGCY
65124 P   G          S  ATGACGTGGCAGACCGAAGGAGGAGTGGCY
65124 T   T          S  GGTGGCCACTCCTCCTTCTCCACTCCAAGGCAGCCCTGGTACTTTCCTA
65124 T   G          S  GGTGGCCACTCCTCCTTCGCCACTCCAAGGCAGCCCTGGTACTTTCCTA
                        CTGAGCCTCTTCTTTTAAAGGGCAACCACTTGTATACCCTCTGGTGGCCACTCCTCCTTC[TG]CCACTCCAAGGCAGC
                        CCTGGTACTTTCCTAAGTGGCCCCTCCTACAGAGCACTTGCCGGC
65124 IS  [TG]
65135 I              S  AGATTATAACTCAAAACTTTTTGAGAGTTCCAGGTCCTCTTTTTTTC
65135 P   A          S  CGCGCCGAGGTAAAAAATTTTCATCTGGTCTCTGY
65135 P   T          S  ATGACGTGGCAGACAAAAAAATTTTCATCTGGTCTCTY

65135 T   A          S  ATTACAGAGACCAGATGAAAATTTTTTAAAAAAAAGAGGACCTGGAACTCTCAAAAAGTTTTGAGTTATAATCTCT

65135 T   T          S  ATTACAGAGACCAGATGAAAATTTTTTTAAAAAAAGAGGACCTGGAACTCTCAAAAAGTTTTGAGTTATAATCTCT
                        CTCAGAAGTGTAGCTTACTTATTAAAATGATTTATTACAGAGACCAGATGAAAATTTTTT[AT]AAAAAAAGAGGACCTGG
                        AACTCTCAAAAAGTTTTGAGTTATAATCTCTGAGAAATATGAA
65135 IS  [AT]
66181 I              A  GTTGCTCATTTGTCTTTTACATTTAATTTGCAAGCCCCA
66181 P   C          A  ATGACGTGGCAGACCAGTATATAACCTAGGAGGGTAY
66181 P   T          A  CGCGCCGAGGTAGTATATAACCTAGGAGGGTAGY

66181 T   C          A  TCATCTACCCTCCTAGGTTATATACTGGGGGCTTGCAAATTAAATGTAAAAGACAAATGAGCAACAA

66181 T   T          A  TCATCTACCCTCCTAGGTTATATACTAGGGGCTTGCAAATTAAATGTAAAAGACAAATGAGCAACAA
                        AAACTCCCACAAATGTCTTTTTGTTGCTCATTTGTCTTTTACATTTAATTTGCAAGCCCC[CT]AGTATATAACCTAGGAG
                        GGTAGATGAAAAGTTTTCCCTACCCTAGAGTCCAAGAGAGAAA
66181 IS  [CT]
66192 I              S  CATATGTGTTCTTTTCCCATGGTTATTCAAAGAGGACAT
66192 P   C          S  ATGACGTGGCAGACGTTAAGTTAATTGAACACATGTCAY
66192 P   T          S  CGCGCCGAGGATTAAGTTAATTGAACACATGTCAAY

66192 T   C          S  GCCTTTGACATGTGTTCAATTAACTTAACTGTCCTCTTTGAATAACCATGGGAAAAGAACACATATGCA

66192 T   T          S  GCCTTTGACATGTGTTCAATTAACTTAATTGTCCTCTTTGAATAACCATGGGAAAAGAACACATATGCA
                        TAAACTATCCTCCATGTTCTGAATGCTGGTTAGCCTTTGACATGTGTTCAATTAACTTAA[CT]TGTCCTCTTTGAATAAC
                        CATGGGAAAAGAACACATATGCATAAACATAAAACTATAATCT
66192 IS  [CT]
66193 I              S  ACTCTAACAGCTGGTACCAAGAGAGGAGAGATGAGTACAATATAGTT
66193 P   C          S  ATGACGTGGCAGACGGAAGCCCTTCAGAAACY
66193 P   T          S  CGCGCCGAGGAGAAGCCCTTCAGAAACAY

66193 T   C          S  CACCTGTTTCTGAAGGGCTTCCACTATATTGTACTCATCTCTCCTCTCTTGGTACCAGCTGTTAGAGTTT

66193 T   T          S  CACCTGTTTCTGAAGGGCTTCTACTATATTGTACTCATCTCTCCTCTCTTGGTACCAGCTGTTAGAGTTT
                        AGGAGTCGGGGCCAGGTATAACCATTTCATCTGAATTTCCACCTGTTTCTGAAGGGCTT[CT]ACTATATTGTACTCAT
                        CTCTCCTCTCTTGGTACCAGCTGTTAGAGTTTCTTCACATCCTC
66193 IS  [CT]
66269 I              S  CATGTGGGTTGGCATCTCCCGTGGCT
66269 P   T          S  CGCGCCGAGGAGGATCACAGGGTACTTGY
66269 P   C          S  ATGACGTGGCAGACGGGATCACAGGGTACTTY
66269 T   T          S  TCAACAAGTACCCTGTGATCCTGCCACGGGAGATGCCAACCCACATGCT
66269 T   C          S  TCAACAAGTACCCTGTGATCCCGCCACGGGAGATGCCAACCCACATGCT
                        GACTTCACAGTGCACTGGGGTCTGCCCAGGAGGCTGCCCTCAACAAGTACCCTGTGATCC[TC]GCCACGGGAGATGC
                        CAACCCACATGCTTTGCGTCTGCATGTCTATGATGAGATGGGATAT
66269 IS  [TC]
66273 I              A  AGCAGGGAGGCAGGAAGGAGAAATTTGAGGTACT
66273 P   A          A  CGCGCCGAGGACATGACCTTTGAGTTCTGY
66273 P   C          A  ATGACGTGGCAGACCCATGACCTTTGAGTTCTGY
66273 T   A          A  TTGCCAGAACTCAAAGGTCATGTGTACCTCAAATTCTCCTTCCTGCCTCCCTGCTCA
66273 T   C          A  TTGCCAGAACTCAAAGGTCATGGGTACCTCAAATTCTCCTTCCTGCCTCCCTGCTCA
                        GGGGAGGAGCCTTCTGTTCATGGGGGTGAGCAGGGAGGCAGGAAGGAGAATTTGAGGTAC[AC]CATGACCTTTGAG
                        TTCTGGCAAAGGACTCCCCAACTATGCCTCACCAATCTGTGACAGGG
66273 IS  [AC]
 7204 I              S  GGTGCAGGTGCGGAGGTGCACCT
 7204 P   G          S  CGCGCCGAGGCTCAGATTCCAGGCCGT
 7204 P   T          S  CGCGCCGAGGATCAGATTCCAGGCCGT
 7204 T   G          S  GATGACGGCCTGGAATCTGAGGGTGCACCTCCGCACCTGCACCAC
 7204 T   T          S  GATGACGGCCTGGAATCTGATGGTGCACCTCCGCACCTGCACCAC
                        GATCTAACTGAGGGTGCACCACGGAACGCTGATGACGGCCTGGAATCTGA[GT]GGTGCACCTCCGCACCTGCACCAC
                        GGAATGCCGATGACGGCCCAGCAGGT
7204 IS  [GT]
```

FIGURE 129D

14968 I		S	CAGGGTAGAGGTGATTCACACTGACCGGTCACTACT
14968 P	T	S	CGCGCCGAGGACACACTTCAACCTTTATTCCTATAC
14968 P	C	S	CGCGCCGAGGGCACACTTCAACCTTTATTCCT
14968 T	T	S	GTCTGTATAGGAATAAAGGTTGAAGTGTGTGTAGTGACCGGTCAGTGTGAATCACCTCTACCCTGTG
14968 T	C	S	GTCTGTATAGGAATAAAGGTTGAAGTGTGCGTAGTGACCGGTCAGTGTGAATCACCTCTACCCTGTG
14968 IS	[TC]		gatctctgcctgctaggtcctgtctgtatagggaataaaggttgaaggtgtg[TC]gtagtgaccggtcagtgtgaatcacctctacccigtgtagcccaacaggc
28892 I		S	CAGAGCACTGACCCTCCCCTCCCAGAAT
28892 P	G	S	CGCGCCGAGGCGGGCCTCTGCCC
28892 P	C	S	CGCGCCGAGGGGGGCCTCTGCCC
28892 T	G	S	TGATGGGCAGAGGCCCGTTCTGGGAGGGGAGGGTCAGTGCTCTGTG
28892 T	C	S	TGATGGGCAGAGGCCCCTTCTGGGAGGGGAGGGTCAGTGCTCTGTG
28892 IS	[GC]		CGCGGGCTGGGCCAAAGCGGGGCCCGGTGGGCCGCTGGGAGGCTGCCCACCAGTCAGCCATCGGCCAAGCTGTTG CCCTGGCTGACCCTGATGGCCAACAAGGCCGTAGGGAGTGATGGGCAGAGGCCC[GC]TTCTGGGAGGGGAGGGTC AGTGCTCTGTGGGGGACCGTRTGTTGGAGTGGAGGGCAGCAGGAGGAG
37649 I		A	CAAAAGTAAATGCTATATAACCAGCACCCATGCCAGCTCTGT
37649 P	INS	A	CGCGCCGAGGCCACACCATCTCCTCTGAV
37649 P	DEL	A	CGCGCCGAGGCACACCATCTCCTCTGATCCV
37649 T	INS	A	AGGATCAGAGGAGATGGTGTGGCAGAGCTGGCATGGGTGCTGGTTATATAGCATTTACTTTTGCT
37649 T	DEL	A	GTGAGGATCAGAGGAGATGGTGTGCAGAGCTGGCATGGGTGCTGGTTATATAGCATTTACTTTTGCT
37649 IS	[-C]		aacaacagcaaaagtaaatgctatataaccagcacccatgccagctctgc[-C]acaccatcicctctgatcctcacagtagaaatacaatacgggtcccatit
37912 I		A	CTGCTAGTAGGTCCAAAGGCCCCACCTACCT
37912 P	G	A	CGCGCCGAGGGCCCGCCAGAGCV
37912 P	A	A	CGCGCCGAGGACCCGCCAGAGCCV
37912 T	G	A	CCTGGGCTCTGGCGGGCGGTAGGTGGGGCCTTTGGACCTACTAGCAGTG
37912 T	A	A	CCTGGGCTCTGGCGGGTGGTAGGTGGGGCCTTTGGACCTACTAGCAGTG
37912 IS	[GA]		ctgctgtgtaacctcctcactgctagtaggtccaaaggcccccacctacc[GA]cccgccagagcccagggtcacactgtcgcaatgtgcagggagaactggtg
38027 I		A	CTGTGGGGCTGGAAACGTGATAGGTTAGGATGGT
38027 P	A	A	CGCGCCGAGGAAACAGAATTGGGATCACTCAA
38027 P	G	A	CGCGCCGAGGGAACAGAATTGGGATCACTCAA
38027 T	A	A	AAATTTGAGTGATCCCAATTCTGTTTCCATCCTAACCTATCACGTTTCCAGCCCCACAGTT
38027 T	G	A	AAATTTGAGTGATCCCAATTCTGTTCCCATCCTAACCTATCACGTTTCCAGCCCCACAGTT
38027 IS	[AG]		acgtcagcctgatgaaactgtgggctggaaacgtgataggttaggatgg[AG]aacagaatiggggatcactcaaatttaatagtggaaactgtgagattagct
45360 I		A	GTAGCAATCTGAAATTTATTAAAAACATTTTTTCTGTTAAACTAATATTAC
45360 P	T	A	CGCGCCGAGGTTATATTCTATCTTCTGCAGACATAACTT
45360 P	G	A	CGCGCCGAGGGTATATTCTATCTTCTGCAGACATAACT
45360 T	T	A	TAAAAAGTTATGTCTGCAGAAGATAGAATATAATAATATTAGTTTAACAGAAAAAATGTTTTTAATAAATTTCAGATTGCT AC
45360 T	G	A	TAAAAAGTTATGTCTGCAGAAGATAGAATATACTAATATTAGTTTAACAGAAAAAATGTTTTTAATAAATTTCAGATTGCT AC
45360 IS	[TG]		GTAGCAATCTGAAATTTATTAAAAACATTTTTTCTGTTAAACTAATATTA[TG]TATATTCTATCTTCTGCAGACATAACTTT TTAAATTAAAAATCGTTAAAA
45407 I		A	CAAAGAGAACTGTGCCGTGTTCTACTCTTTACCAAGT
45407 P	A	A	CGCGCCGAGGACACTTTCCAACTTTCAGGCY
45407 P	C	A	CGCGCCGAGGCCACTTTCCAACTTTCAGGCY
45407 T	A	A	AACAGCCTGAAAGTTGGAAAGTGTCTTGGTAAAGAGTAGAACACGGCACAGTTCTCTTTGAT
45407 T	C	A	AACAGCCTGAAAGTTGGAAAGTGGCTTGGTAAAGAGTAGAACACGGCACAGTTCTCTTTGAT
45407 IS	[AC]		CATAAAAACAGTATCAAAGAGAACTGTGCCGTGTTCTACTCTTTACCAAG[AC]CACTTTCCAACTTTCAGGCTGTTTTTT ATCAAGGTTCCAACAGTGACCAC
45410 I		A	CTCACAGACATGAAGATACAAGACAGGCTGGAAGGTTGTTCC
45410 P	T	A	CGCGCCGAGGTTTAGGAAGGGAAAACATCCC
45410 P	A	A	CGCGCCGAGGATTAGGAAGGGAAAACATCCC
45410 T	T	A	TAAAGGGATGTTTTCCCTTCCTAAAGAACAACCTTCCAGCCTGTCTTGTATCTTCATGTCTGTGAGTT
45410 T	A	A	TAAAGGGATGTTTTCCCTTCCTAATGAACAACCTTCCAGCCTGTCTTGTATCTTCATGTCTGTGAGTT
45410 IS	[TA]		TCACTGCAACTCACAGACATGAAGATACAAGACAGGCTGGAAGGTTGTTC[TA]TTAGGAAGGGAAAACATCCCTTTACT TAAACTTGATAATGACTGGTTTTG
45513 I		A	AAGGAGGCCAAACTGAGAATGAGTGAAATTAGTGAAAAATGAAAAGGATGT
45513 P	A	A	CGCGCCGAGGAAAAACTCAGATTCCCTTTTATTTTTTTC
45513 P	G	A	CGCGCCGAGGGAAAACTCAGATTCCCTTTTATTTTTTTC
45513 T	A	A	AAAAGAAAAAAATAAAAGGGAATCTGAGTTTTTCATCCTTTTCATTTTTCACTAATTTCACTCATTCTCAGTTTGGCCTC CTT
45513 T	G	A	AAAAGAAAAAAATAAAAGGGAATCTGAGTTTTCCATCCTTTTCATTTTTCACTAATTTCACTCATTCTCAGTTTGGCCTC CTT
45513 IS	[AG]		AAGGAGGCCAAACTGAGAATGAGTGAAATTAGTGAAAAATGAAAAGGATG[AG]AAAACTCAGATTCCCTTTTATTTTTT TCTTTTTAAAAAAGAGATATTTGG
45526 I		A	CCCTCATCTCCTTGTGACTCCCTCCTTGCTATCAC
45526 P	T	A	CGCGCCGAGGTCCAACCTCAGCCTACTG
45526 P	A	A	CGCGCCGAGGACCAACCTCAGCCTACTG
45526 T	T	A	TCATCAGTAGGCTGAGGTTGGATGATAGCAAGGAGGGAGTCACAAGGAGATGAGGGTG
45526 T	A	A	TCATCAGTAGGCTGAGGTTGGTTGATAGCAAGGAGGGAGTCACAAGGAGATGAGGGTG
45526 IS	[TA]		CTCAGGTTCCCAGTCACCCTCATCTCCTTGTGACTCCCTCCTTGCTATCA[TA]CCAACCTCAGCCTACTGATGACACAT TGGGTAAGGGGGCTGATTCCATCA
45561 I		A	GGCTTGCTTTAGGAAGAAACTCTCACGGACAGCACT
45561 P	A	A	CGCGCCGAGGACAGGGTGATTTTGAAAGTGTA
45561 P	G	A	CGCGCCGAGGGCAGGGTGATTTTGAAAGTG
45561 T	A	A	TGCCTACACTTTCAAAATCACCCTGTGTGCTGTCCGTGAGAGTTTCTTCCTAAAGCAAGCCTT
45561 T	G	A	TGCCTACACTTTCAAAATCACCCTGCGTGCTGTCCGTGAGAGTTTCTTCCTAAAGCAAGCCTT
45561 IS	[AG]		GTTGCAATGAACAAAGGCTTGCTTTAGGAAGAAACTCTCACGGACAGCAC[AG]CAGGGTGATTTTGAAAGTGTAGGCA AGATCCTTTTAGGAAGCAAGGAAAG
47970 I		A	CTGGACCACTGCTGGYTGTCCACCCTCATGT
47970 P	C	A	CGCGCCGAGGCAGGGACCGGTAGGTGY
47970 P	A	A	CGCGCCGAGGAAGGGACCGGTAGGTGY
47970 T	C	A	GGGTCACCTACCGGTCCCTGCATGAGGGTGGACARCCAGCAGTGGTCCAGGC
47970 T	A	A	GGGTCACCTACCGGTCCCTTCATGAGGGTGGACARCCAGCAGTGGTCCAGGC
47970 IS	[CA]		TCCGCTTCCTTGCTGCGATGGCTGCAGTGGGAGCCCTGGAGCCCCTGCTGCCTGGACCACTGCTGGYTGTCCACCC TCATG[CA]AGGGACCGGTAGGTGACCCCTTGCCACTTTCTCTGACCTCTGTTCCCAGGCCAGCTCTCATGCTAGCAAC AGGCAATGGAGGCTGAATCAAACAGGACAGCTGAGACTGAAAATGTTCTTT
48181 I		A	GGGACTGTATACAGTCCCATACAATAGTTCTATACAGTCATTATGTTATAC
48181 P	T	A	CGCGCCGAGGTTATCATGTTTTCATTGGAAAATATTTTCAG
48181 P	A	A	CGCGCCGAGGATATCATGTTTTCATTGGAAAATATTTTCAG

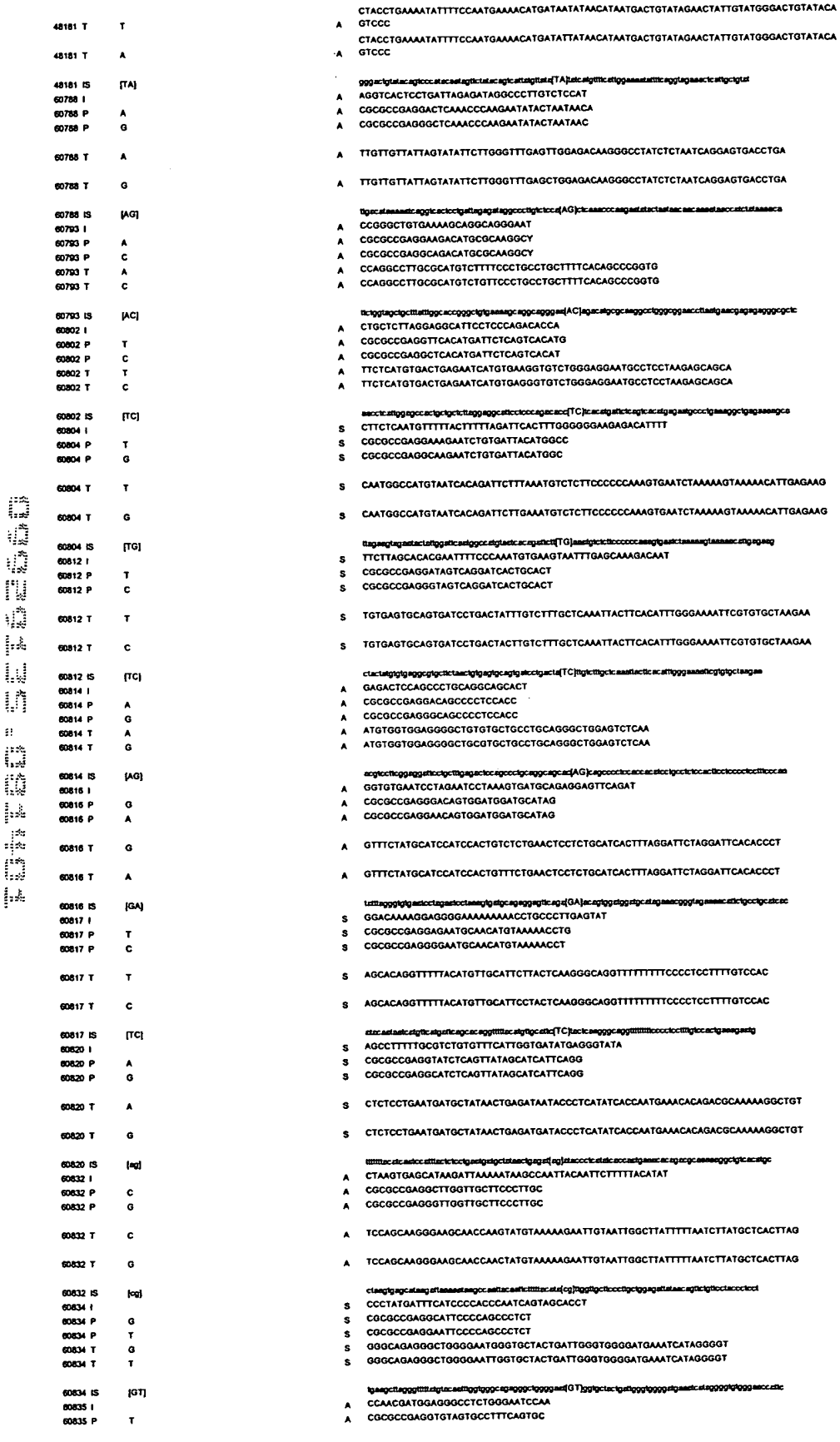
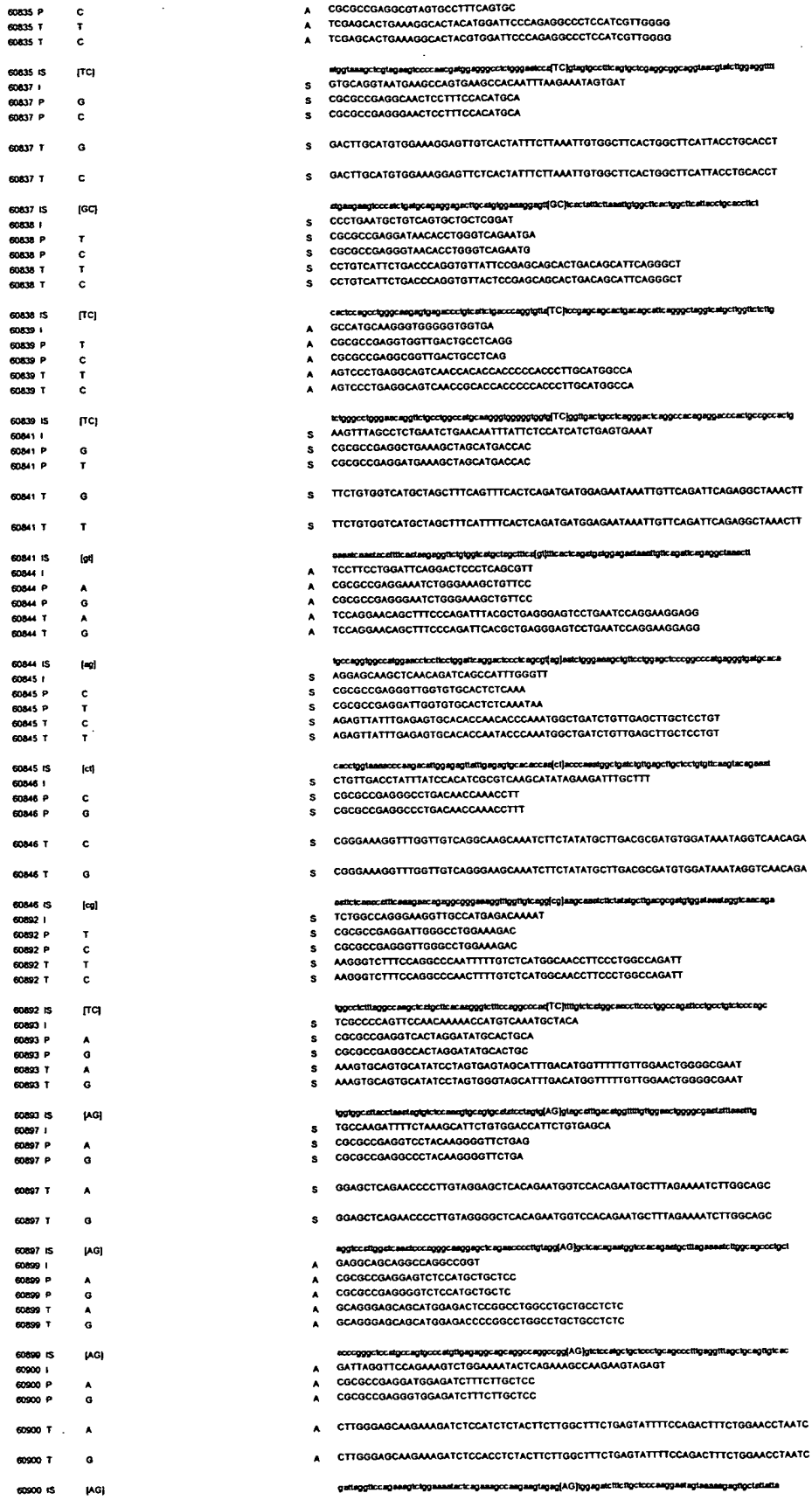


FIGURE 129D




60901 I S TAGTTGAGGAAGTCAAGGCTTAAAGAGATCTAAAGTGGTTTCTAAATATCT
60901 P C S CGCGCCGAGGGGCATTCTTGATGCCTCA
60901 P T S CGCGCCGAGGAGCATTCTTGATGCCTCAAA
60901 T C S ACGATTTGAGGCATCAAGAATGCCGATATTTAGAAACCACTTTAGATCTCTTTAAGCCTTGACTTCCTCAACTA
60901 T T S ACGATTTGAGGCATCAAGAATGCTGATATTTAGAAACCACTTTAGATCTCTTTAAGCCTTGACTTCCTCAACTA
60901 tS [CT]
60916 I A AAAACTATCTTGTAGATAGTTACAAAATTTTTAAATGATCCAAAAAAAGTA
60916 P T A CGCGCCGAGGTTTCTTTCTACAACATGTTTCAATATGGY
60916 P C A CGCGCCGAGGCTTCTTTCTACAACATGTTTCAATATGGY
60916 T T A ATTTCCATATTGAAACATGTTGTAGAAAGAAAACTTTTTTTGGATCATTTAAAAATTTTGTAACTATCTACAAGATAGTTT T
60916 T C A ATTTCCATATTGAAACATGTTGTAGAAAGAAGACTTTTTTTGGATCATTTAAAAATTTTGTAACTATCTACAAGATAGTTT T
60916 tS [TC]
60939 I A TTATAACAAAATTAATCTGCAAAATCCATTTGCATTTGTCTATGTGCTTGT
60939 P A A CGCGCCGAGGACACCAACACAATTTCAGAAG
60939 P G A CGCGCCGAGGGCACCAACACAATTTCAGAAG
60939 T A A CTTGCTTCTGAAATTGTGTTGGTGTCAAGCACATAGACAAATGCAAATGGATTTTGCAGATTAATTTTGTTATAA
60939 T G A CTTGCTTCTGAAATTGTGTTGGTGCCAAGCACATAGACAAATGCAAATGGATTTTGCAGATTAATTTTGTTATAA
60939 tS [ag]
60959 I A GAGGCAGCAGGCCAGGCCGGT
60959 P A A CGCGCCGAGGAGTCTCCATGCTGCTCC
60959 P G A CGCGCCGAGGGGTCTCCATGCTGCTC
60959 T A A GCAGGGAGCAGCATGGAGACTCCGGCCTGGCCTGCTGCCTCTC
60959 T G A GCAGGGAGCAGCATGGAGACCCCGGCCTGGCCTGCTGCCTCTC
60959 tS [AG]
60987 I S ACCCTGTCTTTGCTGAGGCCTCTGTGGTTAGAATT
60987 P C S CGCGCCGAGGGCGCAGGACAAGGAATG
60987 P T S CGCGCCGAGGACGCAGGACAAGGAATG
60987 T C S AGCACATTCCTTGTCCTGCGCATTCTAACCACAGAGGCCTCAGCAAAGACAGGGTCT
60987 T T S AGCACATTCCTTGTCCTGCGTATTCTAACCACAGAGGCCTCAGCAAAGACAGGGTCT
60987 tS [CT]
61007 I A CAGACTCTTGCCTATGGTGTGAAAAAGAGAGAATGCAAATGACAT
61007 P A A CGCGCCGAGGAGAGAGAAACCAGGTTTAATGC
61007 P G A CGCGCCGAGGGGAGAGAAACCAGGTTTAATGC
61007 T A A ATGAGCATTAAACCTGGTTTCTCTCTTGTCATTTGCATTCTCTCTTTTTCACACCATAGGCAAGAGTCTGCC
61007 T G A ATGAGCATTAAACCTGGTTTCTCTCCTGTCATTTGCATTCTCTCTTTTTCACACCATAGGCAAGAGTCTGCC
61007 tS [AG]
61024 I S GACATGATTTGAGTGAGGATGGCTCTAAGTTTGGGT
61024 P C S CGCGCCGAGGGCTGTCCCATTTTCTGCC
61024 P T S CGCGCCGAGGACTGTCCCATTTTCTGCC
61024 T C S CAAGGGCAGAAAATGGGACAGCCCCAAACTTAGAGCCATCCTCACTCAAATCATGTCCT
61024 T T S CAAGGGCAGAAAATGGGACAGTCCCAAACTTAGAGCCATCCTCACTCAAATCATGTCCT
61024 tS [CT]
61025 I A GGTCAGGGGAAAGAAGCAGCAAGATTATTGGGACAT
61025 P A A CGCGCCGAGGATGAATCCCATGAGCTACCA
61025 P G A CGCGCCGAGGGTGAATCCCATGAGCTACC
61025 T A A AGGTTGGTAGCTCATGGGATTCATTGTCCCAATAATCTTGCTGCTTCTTTCCCCTGACCCC
61025 T G A AGGTTGGTAGCTCATGGGATTCACTGTCCCAATAATCTTGCTGCTTCTTTCCCCTGACCCC
61025 tS [AG]
61026 I S GTCCCTGGGCTGCAAATACAATGAAAATGACTCCTTCCT
61026 P T S CGCGCCGAGGACAGCAGAAATCATGTCAAGG
61026 P C S CGCGCCGAGGGCAGCAGAAATCATGTCAAG
61026 T T S AAGCCCTTGACATGATTTCTGCTGTGGAAGGAGTCATTTTCATTGTATTTGCAGCCCAGGGACTG
61026 T C S AAGCCCTTGACATGATTTCTGCTGCGGAAGGAGTCATTTTCATTGTATTTGCAGCCCAGGGACTG
61026 tS [TC]
61037 I A CTTGTAATCAGAATCTCGTGTGCATGTATGTAATGATGGGTTCTCTAATAA
61037 P C A CGCGCCGAGGCTCAGTTTTCTGGCAGATTAAAAC
61037 P T A CGCGCCGAGGTTCAGTTTTCTGGCAGATTAAAAC
61037 T C A AGATGTTTTAATCTGCCAGAAAACTGAGTATTAGAGAACCCATCATTACATACATGCACACGAGATTCTGATTACAAG
61037 T T A AGATGTTTTAATCTGCCAGAAAACTGAATATTAGAGAACCCATCATTACATACATGCACACGAGATTCTGATTACAAG
61037 tS [CT]
61044 I S ATATGCTATTGAAATTGTTAAGTATGTAGTAAGTACCTTTAAAAAGCTATA
61044 P G S CGCGCCGAGGCATCTGTGAATGAAACTCCAAATTAGY
61044 P A S CGCGCCGAGGTATCTGTGAATGAAACTCCAAATTAGGY
61044 T G S TAATCCTAATTTGGAGTTTCATTCACAGATGATAGCTTTTTAAAGGTACTTACTACATACTTAACAATTTCAATAGCATAT
61044 T A S TAATCCTAATTTGGAGTTTCATTCACAGATAATAGCTTTTTAAAGGTACTTACTACATACTTAACAATTTCAATAGCATAT
61044 tS [GA]
61048 I A AATAGTGCAGGAACAACTGTCTATTCATATGGAAAAATACAATATTAGATT
61048 P C A CGCGCCGAGGCATGCCCTAACACCATTTG
61048 P A A CGCGCCGAGGAATGCCCTAACACCATTTGC
61048 T C A TACTGCAAATGGTGTTAGGGCATGATCTAATATTGTATTTTTCCATATGAATAGACAGTTGTTCCTGCACTATT
61048 T A A TACTGCAAATGGTGTTAGGGCATTATCTAATATTGTATTTTTCCATATGAATAGACAGTTGTTCCTGCACTATT
61048 tS [CA]
61080 I A GGACCATCCTTGTTTTGGAGAGTTCAGTATGACGAAGACAGAAC

FIGURE 129D

```
61080 P   T    A   CGCGCCGAGGTGTGGAGCTTACAGAATGAGA
61080 P   A    A   CGCGCCGAGGAGTGGAGCTTACAGAATGAGA

61080 T   T    A   CTTCTCTCATTCTGTAAGCTCCACATTCTGTCTTCGTCATACTGAACTCTCCAAAACAAGGATGGTCCCT

61080 T   A    A   CTTCTCTCATTCTGTAAGCTCCACTTTCTGTCTTCGTCATACTGAACTCTCCAAAACAAGGATGGTCCCT

61080 IS  [TA]     gtacaagggaccatcctgtttgggagagttcagtatgacgaagacagag[TA]gtggagcttacagaatgagagaggcccaagaagtgcctggcaaacccaa
61103 I           S   CTGTTCATTCTAGTCAGTATCTTTATCTTTTAAAATTTTGGATGTTTCTT
61103 P   T       S   CGCGCCGAGGACAATGTAGTATATAAGCTAGTCCAC
61103 P   C       S   CGCGCCGAGGGCAATGTAGTATATAAGCTAGTCCAC

61103 T   T       S   GACAGTGGACTAGCTTATATACTACATTGTAGAAACATCCAAAATTTTAAAAGATAAAGATACTGACTAGAATGAACAG

61103 T   C       S   GACAGTGGACTAGCTTATATACTACATTGCAGAAACATCCAAAATTTTAAAAGATAAAGATACTGACTAGAATGAACAG

61103 IS  [TC]     agtggtcagtcagtcccctgcagacagtggactagcttatatactacattg[TC]agaaacatccaaaatttaaaagataaagatactgactagaatgaacag
61114 I           A   CCACACACACAGAAAGGCAATTCGGCTTCAAAAACAT
61114 P   G       A   CGCGCCGAGGGCGTGCTCACAGCC
61114 P   A       A   CGCGCCGAGGACGTGCTCACAGCCA
61114 T   G       A   ATGGTGGCTGTGAGCACGCTGTTTTTGAAGCCGAATTGCCTTTCTGTGTGTGTGGGT
61114 T   A       A   ATGGTGGCTGTGAGCACGTTGTTTTTGAAGCCGAATTGCCTTTCTGTGTGTGTGGGT

61114 IS  [GA]     catgccaaacgtacccacacacacagaaaggcaattcggcttcaaaaac[GA]cgtgctcacagccacccatgctcgatggagcccacatggtgctctgggc
61121 I           S   GGAAACTTCACCGTGTGTGGTTACCTCTCATAAGAATGAGGTAA
61121 P   G       S   CGCGCCGAGGCGAGGATGATTAGGGGCAY
61121 P   A       S   CGCGCCGAGGTGAGGATGATTAGGGGCAY

61121 T   G       S   CTAGTGCCCCTAATCATCCTCGTACCTCATTCTTATGAGAGGTAACCACACACGGTGAAGTTTCCCA

61121 T   A       S   CTAGTGCCCCTAATCATCCTCATACCTCATTCTTATGAGAGGTAACCACACACGGTGAAGTTTCCCA

61121 IS  [GA]     ctcctgtgactggctcttgcactcgctagtgcccctaatcctcccc[GA]tacctcatcttcttatgagaggtaacccacacacggtgaagtttcccacaca
61123 I           A   GCCCCGCAGGGCTCTGAAAGCAGAGA
61123 P   C       A   CGCGCCGAGGCGTGTCCTTCAGCACC
61123 P   T       A   CGCGCCGAGGTGTGTCCTTCAGCACCC
61123 T   C       A   AAGGGGGTGCTGAAGGACACGCTCTGCTTTCAGAGCCCTGCGGGGCTG
61123 T   T       A   AAGGGGGTGCTGAAGGACACACTCTGCTTTCAGAGCCCTGCGGGGCTG

61123 IS  [CT]     tctgggccaaccactcttcagatgccagccccgcagggcctctgaaagcagag[CT]gtgtccttcagccaccccttcctgaagtgtagccagctctgccgggc
61130 I           S   ATGGAATGAAAAATAAACCTCACCTGAATCACCTTTTAAATGAAAGAGTA
61130 P   G       S   CGCGCCGAGGCGCTAACCCTTTGTGGTG
61130 P   A       S   CGCGCCGAGGTGCTAACCCTTTGTGGTG

61130 T   G       S   AAAGCACCACAAAGGGTTAGCGACTCTTTCATTTAAAAGGTGATTCAGGTGAGGTTTATTTTTCATTCCAT

61130 T   A       S   AAAGCACCACAAAGGGTTAGCAACTCTTTCATTTAAAAGGTGATTCAGGTGAGGTTTATTTTTCATTCCAT

61130 IS  [GA]     ctcgttaccctcactcccactgcgcagataaagcaccacaaaggggttagc[GA]actcttcatttaaaaggtgatttcaggtgaggtttatttttcatttccat
61140 I           A   CTGGGACTACAGGGGCCCGCCAA
61140 P   C       A   CGCGCCGAGGCCACACCTGGCTAATTTTTTAAAA
61140 P   T       A   CGCGCCGAGGTCACACCTGGCTAATTTTTTAAAAAT
61140 T   C       A   AAATATTTTTAAAAAATTAGCCAGGTGTGGTGGCGGGCCCCTGTAGTCCCAGCT
61140 T   T       A   AAATATTTTTAAAAAATTAGCCAGGTGTGATGGCGGGCCCCTGTAGTCCCAGCT

                      CAGAATCTCGCTCTGTCGCCCAGGCTGGAGTGCAGTGGCRTGATCTCGGCTCACCRCAAGCTCCGCCTCCCGGGTT
                      CASGCCATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGACTACAGGGGCCCGCCA[CT]CACACCTGGCTAATTTTTTA
61140 IS  [CT]     AAAATATTTTTAGTAGAGACAGGGTTTCACTGTGTTAGCCAGGGTGGTCTTGA                                    MULTIPLE SHORT GENE NAMES
61145 I           S   TGCTTATTTTGCCAGGACTCCTGCTGAGAAAAAAGAAAGGAGT
61145 P   C       S   CGCGCCGAGGGGCATGAAACATAGGAATTTCAC
61145 P   T       S   CGCGCCGAGGAGCATGAAACATAGGAATTTCACA

61145 T   C       S   ACTGTGTGAAATTCCTATGTTTCATGCCCTCCTTTCTTTTTTCTCAGCAGGAGTCCTGGCAAAATAAGCATG

61145 T   T       S   ACTGTGTGAAATTCCTATGTTTCATGCTCTCCTTTCTTTTTTCTCAGCAGGAGTCCTGGCAAAATAAGCATG

                      CCGGCCCAATGACCTTTTCTGTGGCTGTGGATTAGATATCTGTCCTTCCCTGCATCAAGTCTAGTTTTTGTTCCTCATC
                      CTAACTGTGTGAAAATTCCTATGTTTCATGC[CT]CTCCTTTCTTTTTTCTCAGCAGGAGTCCTGGCAAAATAAGCATGCA
61145 IS  [CT]     GGTAGTAATGGTAGGTATTTCTAATGTACTTTTTACAACTTAGATCGGTATGGTAGG
61147 I           S   TTCAGTCAGGATGGTGAGAATATCATCGCCTCTGAAATACATCACATAAA
61147 P   G       S   CGCGCCGAGGCATTGTGACTGTCTGTGGGY
61147 P   A       S   CGCGCCGAGGTATTGTGACTGTCTGTGGGGY

61147 T   G       S   GTTCCCCCACAGACAGTCACAATGTTATGTGATGTATTTCAGAGGCGATGATATTCTCACCATGCTGACTGAAGT

61147 T   A       S   GTTCCCCCACAGACAGTCACAATATTATGTGATGTATTTCAGAGGCGATGATATTCTCACCATCCTGACTGAAGT

                      GAGAGAAAGAACTACAGAACTATCTCTGAGCACAGCAGAGGAGACAGTTCATCAGTTGCGTTCCCCCACAGACAGTCA
                      CAAT[GA]TTATGTGATGTATTTCAGAGGCGATGATATTCTCACCATCCTGACTGAAGTGAACTATGAAGTAAGCAACAA
61147 IS  [GA]     GGATGACAAGAAAAACATGGGGAAACAGATGCCTCAGCCTACTTTCACA
61150 I           S   CCTGGAAGGGGCACAGAAGGGGCTCA
61150 P   A       S   CGCGCCGAGGTGGAACCAGCAAGCC
61150 P   G       S   CGCGCCGAGGCGGAACCAGCAAGCC
61150 T   A       S   CTTGGGCTTGCTGGTTCCAGAGCCCCTTCTGTGCCCCTTCCAGGCT
61150 T   G       S   CTTGGGCTTGCTGGTTCCGGAGCCCCTTCTGTGCCCCTTCCAGGCT

                      CCAAGGGCACAGTCGTTCTAGAAAGTAGCAGACTGGGAGTTCCAACTTGGGCTTGCTGGTTCC[AG]GAGCCCCTTCT
61150 IS  [AG]     GTGCCCCTTCCAGGCTGTGCCTGGGTGAGATTCTTCTCCTACCAGCACGTCTTCTTCCTGGAGGGTTCAGTGGCT
64194 I           S   GGGCGCAGGTGTCTCTCCCTGGGA
64194 P   A       S   CGCGCCGAGGTTCAGCGCCTCTGACC
64194 P   G       S   CGCGCCGAGGCTCAGCGCCTCTGACC
64194 T   A       S   GAGGGGTCAGAGGCGCTGAACCCAGGGAGAGACACCTGCGCCCAG
64194 T   G       S   GAGGGGTCAGAGGCGCTGAGCCCAGGGAGAGACACCTGCGCCCAG

                      TTCTCTTACAAGGGGCCCAGAGCCTTCTTGGGAGTTCAGCTCCAAGGGATGAGCCCCAGGTGTCTGCCAAGTCCCCC
                      TCTGTCCAGGCCTGGGACGGCTCTGGGATCGAGGGGTCAGAGGCGCTGA[AG]CCCAGGGAGAGACACCTGCGCCC
64194 IS  [AG]     AGAGCTATGACAAAGGGTGGAGGGATGACAAGGCAGCCAGGAGCGGGCG
64195 I           A   CCAGCTCCCGGAAGAAGCTCCCAAATGACATTAAAGT
64195 P   G       A   CGCGCCGAGGGCAGACTCCCCGCC
```

FIGURE 129D

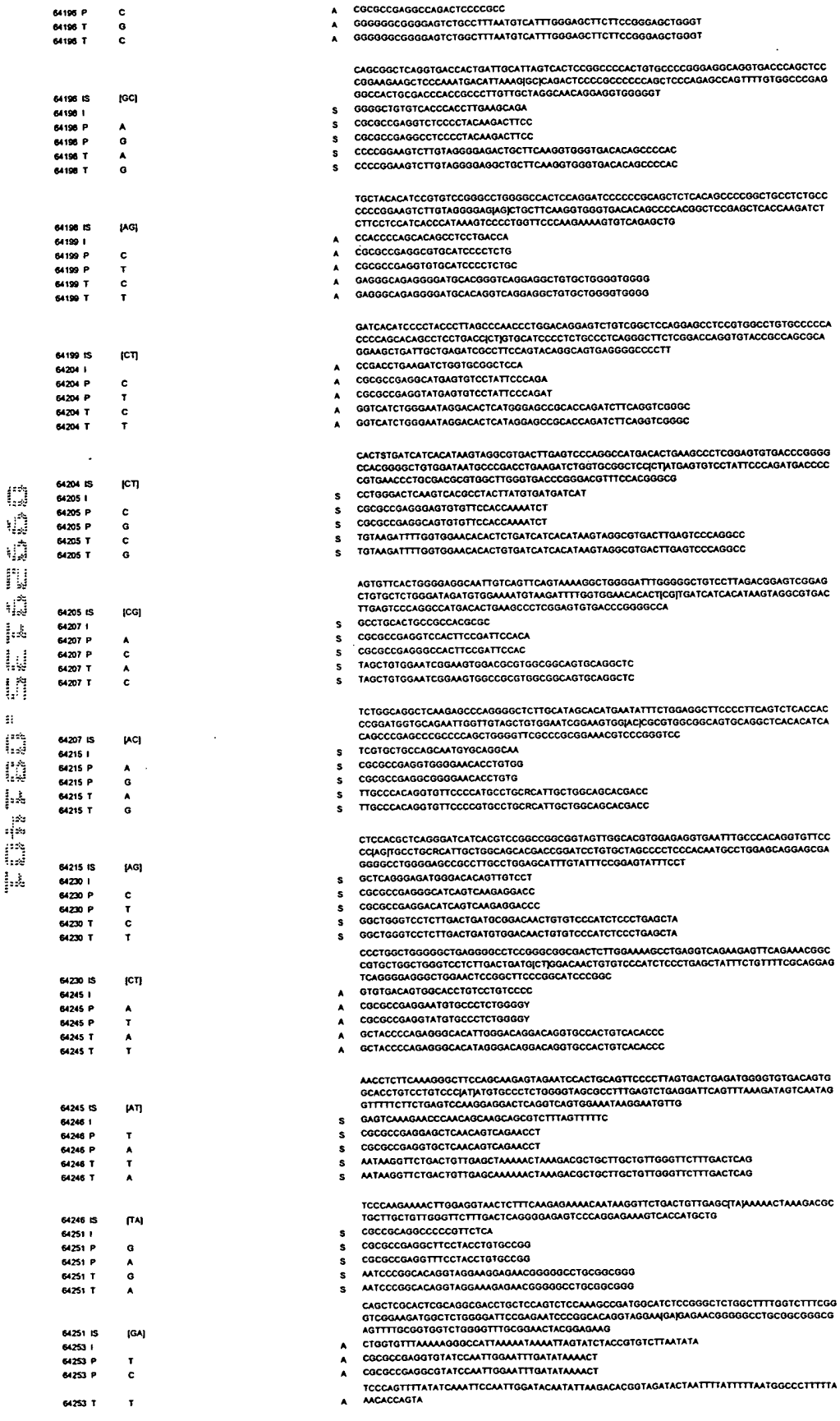

64196 P C A CGCGCCGAGGCCAGACTCCCCGCC
64196 T G A GGGGGGCGGGGAGTCTGCCTTTAATGTCATTTGGGAGCTTCTTCCGGGAGCTGGGT
64196 T C A GGGGGGCGGGGAGTCTGGCTTTAATGTCATTTGGGAGCTTCTTCCGGGAGCTGGGT
CAGCGGCTCAGGTGACCACTGATTGCATTAGTCACTCCGGCCCCACTGTGCCCCGGGAGGCAGGTGACCCAGCTCC
CGGAAGAAGCTCCCAAATGACATTAAAQ[GC]CAGACTCCCCGCCCCCCAGCTCCCAGAGCCAGTTTTGTGGCCCGAG
64196 IS [GC] GGCCACTGCGACCCACCGCCCTTGTTGCTAGGCAACAGGAGGTGGGGGT
64196 I S GGGGCTGTGTCACCCACCTTGAAGCAGA
64196 P A S CGCGCCGAGGTCTCCCCTACAAGACTTCC
64196 P G S CGCGCCGAGGCCTCCCCTACAAGACTTCC
64196 T A S CCCCGGAAGTCTTGTAGGGGAGACTGCTTCAAGGTGGGTGACACAGCCCCAC
64196 T G S CCCCGGAAGTCTTGTAGGGGAGGCTGCTTCAAGGTGGGTGACACAGCCCCAC
TGCTACACATCCGTGTCCGGGCCTGGGGCCACTCCAGGATCCCCCCGCAGCTCTCACAGCCCCGGCTGCCTCTGCC
CCCCGGAAGTCTTGTAGGGGAG[AG]CTGCTTCAAGGTGGGTGACACAGCCCCACGGCTCCGAGCTCACCAAGATCT
64196 IS [AG] CTTCCTCCATCACCCATAAAGTCCCCTGGTTCCCAAGAAAAGTGTCAGAGCTG
64199 I A CCACCCCAGCACAGCCTCCTGACCA
64199 P C A CGCGCCGAGGCGTGCATCCCCTCTG
64199 P T A CGCGCCGAGGTGTGCATCCCCTCTGC
64199 T C A GAGGGCAGAGGGGATGCACGGGTCAGGAGGCTGTGCTGGGGTGGGG
64199 T T A GAGGGCAGAGGGGATGCACAGGTCAGGAGGCTGTGCTGGGGTGGGG
GATCACATCCCCTACCCTTAGCCCAACCCTGGACAGGAGTCTGTCGGCTCCAGGAGCCTCCGTGGCCTGTGCCCCCA
CCCCAGCACAGCCTCCTGACC[CT]GTGCATCCCCTCTGCCCTCAGGGCTTCTCGGACCAGGTGTACCGCCAGCGCA
64199 IS [CT] GGAAGCTGATTGCTGAGATCGCCTTCCAGTACAGGCAGTGAGGGGCCCCTT
64204 I A CCGACCTGAAGATCTGGTGCGGCTCCA
64204 P C A CGCGCCGAGGCATGAGTGTCCTATTCCCAGA
64204 P T A CGCGCCGAGGTATGAGTGTCCTATTCCCAGAT
64204 T C A GGTCATCTGGGAATAGGACACTCATGGGAGCCGCACCAGATCTTCAGGTCGGGC
64204 T T A GGTCATCTGGGAATAGGACACTCATAGGAGCCGCACCAGATCTTCAGGTCGGGC
CACTSTGATCATCACATAAGTAGGCGTGACTTGAGTCCCAGGCCATGACACTGAAGCCCTCGGAGTGTGACCCGGGG
CCACGGGGCTGTGGATAATGCCCGACCTGAAGATCTGGTGCGGCTCC[CT]ATGAGTGTCCTATTCCCAGATGACCCC
64204 IS [CT] CGTGAACCCTGCGACGCGTGGCTTGGGTGACCCGGGACGTTTCCACGGGCG
64205 I S CCTGGGACTCAAGTCACGCCTACTTATGTGATGATCAT
64205 P C S CGCGCCGAGGGAGTGTGTTCCACCAAAATCT
64205 P G S CGCGCCGAGGCAGTGTGTTCCACCAAAATCT
64205 T C S TGTAAGATTTTGGTGGAACACACTCTGATCATCACATAAGTAGGCGTGACTTGAGTCCCAGGCC
64205 T G S TGTAAGATTTTGGTGGAACACACTGTGATCATCACATAAGTAGGCGTGACTTGAGTCCCAGGCC
AGTGTTCACTGGGGAGGCAATTGTCAGTTCAGTAAAAGGCTGGGGATTTGGGGGCTGTCCTTAGACGGAGTCGGAG
CTGTGCTCTGGGATAGATGTGGAAAATGTAAGATTTTGGTGGAACACACT[CG]TGATCATCACATAAGTAGGCGTGAC
64205 IS [CG] TTGAGTCCCAGGCCATGACACTGAAGCCCTCGGAGTGTGACCCGGGGCCA
64207 I S GCCTGCACTGCCGCCACGCGC
64207 P A S CGCGCCGAGGTCCACTTCCGATTCCACA
64207 P C S CGCGCCGAGGGCCACTTCCGATTCCAC
64207 T A S TAGCTGTGGAATCGGAAGTGGACGCGTGGCGGCAGTGCAGGCTC
64207 T C S TAGCTGTGGAATCGGAAGTGGCCGCGTGGCGGCAGTGCAGGCTC
TCTGGCAGGCTCAAGAGCCCAGGGGCTCTTGCATAGCACATGAATATTTCTGGAGGCTTCCCCTTCAGTCTCACCAC
CCGGATGGTGCAGAATTGGTTGTAGCTGTGGAATCGGAAGTGG[AC]CGCGTGGCGGCAGTGCAGGCTCACACATCA
64207 IS [AC] CAGCCCGAGCCCGCCCCAGCTGGGGTTCGCCCGCGGAAACGTCCCGGGTCC
64215 I S TCGTGCTGCCAGCAATGYGCAGGCAA
64215 P A S CGCGCCGAGGTGGGGAACACCTGTGG
64215 P G S CGCGCCGAGGCGGGGAACACCTGTG
64215 T A S TTGCCCACAGGTGTTCCCCATGCCTGCRCATTGCTGGCAGCACGACC
64215 T G S TTGCCCACAGGTGTTCCCCGTGCCTGCRCATTGCTGGCAGCACGACC
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64215 IS [AG] GGGGCCTGGGGAGCCGCCTTGCCTGGAGCATTTGTATTTCCGGAGTATTTCCT
64230 I S GCTCAGGGAGATGGGACACAGTTGTCCT
64230 P C S CGCGCCGAGGGCATCAGTCAAGAGGACC
64230 P T S CGCGCCGAGGACATCAGTCAAGAGGACCC
64230 T C S GGCTGGGTCCTCTTGACTGATGCGGACAACTGTGTCCCATCTCCCTGAGCTA
64230 T T S GGCTGGGTCCTCTTGACTGATGTGGACAACTGTGTCCCATCTCCCTGAGCTA
CCCTGGCTGGGGGCTGAGGGGCCTCCGGGCGGCGACTCTTGGAAAAGCCTGAGGTCAGAAGAGTTCAGAAACGGC
CGTGCTGGCTGGGTCCTCTTGACTGATG[CT]GGACAACTGTGTCCCATCTCCCTGAGCTATTTCTGTTTTCGCAGGAG
64230 IS [CT] TCAGGGGAGGGCTGGAACTCCGGCTTCCCGGCATCCCGGC
64245 I A GTGTGACAGTGGCACCTGTCCTGTCCCC
64245 P A A CGCGCCGAGGAATGTGCCCTCTGGGGY
64245 P T A CGCGCCGAGGTATGTGCCCTCTGGGGY
64245 T A A GCTACCCCAGAGGGCACATTGGGACAGGACAGGTGCCACTGTCACACCC
64245 T T A GCTACCCCAGAGGGCACATAGGGACAGGACAGGTGCCACTGTCACACCC
AACCTCTTCAAAGGGCTTCCAGCAAGAGTAGAATCCACTGCAGTTCCCCTTAGTGACTGAGATGGGGTGTGACAGTG
GCACCTGTCCTGTCCC[AT]ATGTGCCCTCTGGGGTAGCGCCTTTGAGTCTGAGGATTCAGTTTAAAGATAGTCAATAG
64245 IS [AT] GTTTTTCTTCTGAGTCCAAGGAGGACTCAGGTCAGTGGAAATAAGGAATGTTG
64246 I S GAGTCAAAGAACCCAACAGCAAGCAGCGTCTTTAGTTTTTC
64246 P T S CGCGCCGAGGAGCTCAACAGTCAGAACCT
64246 P A S CGCGCCGAGGTGCTCAACAGTCAGAACCT
64246 T T S AATAAGGTTCTGACTGTTGAGCTAAAAACTAAAGACGCTGCTTGCTGTTGGGTTCTTTGACTCAG
64246 T A S AATAAGGTTCTGACTGTTGAGCAAAAAACTAAAGACGCTGCTTGCTGTTGGGTTCTTTGACTCAG
TCCCAAGAAAACTTGGAGGTAACTCTTTCAAGAGAAAACAATAAGGTTCTGACTGTTGAGC[TA]AAAAACTAAAGACGC
64246 IS [TA] TGCTTGCTGTTGGGTTCTTTGACTCAGGGGAGAGTCCCAGGAGAAAGTCACCATGCTG
64251 I S CGCCGCAGGCCCCCGTTCTCA
64251 P G S CGCGCCGAGGCTTCCTACCTGTGCCGG
64251 P A S CGCGCCGAGGTTTCCTACCTGTGCCGG
64251 T G S AATCCCGGCACAGGTAGGAAGGAGAACGGGGGCCTGCGGCGGG
64251 T A S AATCCCGGCACAGGTAGGAAAGAGAACGGGGGCCTGCGGCGGG
CAGCTCGCACTCGCAGGCGACCTGCTCCAGTCTCCAAAGCCGATGGCATCTCCGGGCTCTGGCTTTTGGTCTTTCGG
GTCGGAAGATGGCTCTGGGGATTCCGAGAATCCCGGCACAGGTAGGAA[GA]GAGAACGGGGGCCTGCGGCGGGCG
64251 IS [GA] AGTTTTGCGGTGGTCTGGGGTTTGCGGAACTACGGAGAAG
64253 I A CTGGTGTTTAAAAAGGGCCATTAAAAATAAAATTAGTATCTACCGTGTCTTAATATA
64253 P T A CGCGCCGAGGGTGTATCCAATTGGAATTTGATATAAAACT
64253 P C A CGCGCCGAGGCGTATCCAATTGGAATTTGATATAAAACT
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64253 T T A AACACCAGTA

FIGURE 129D

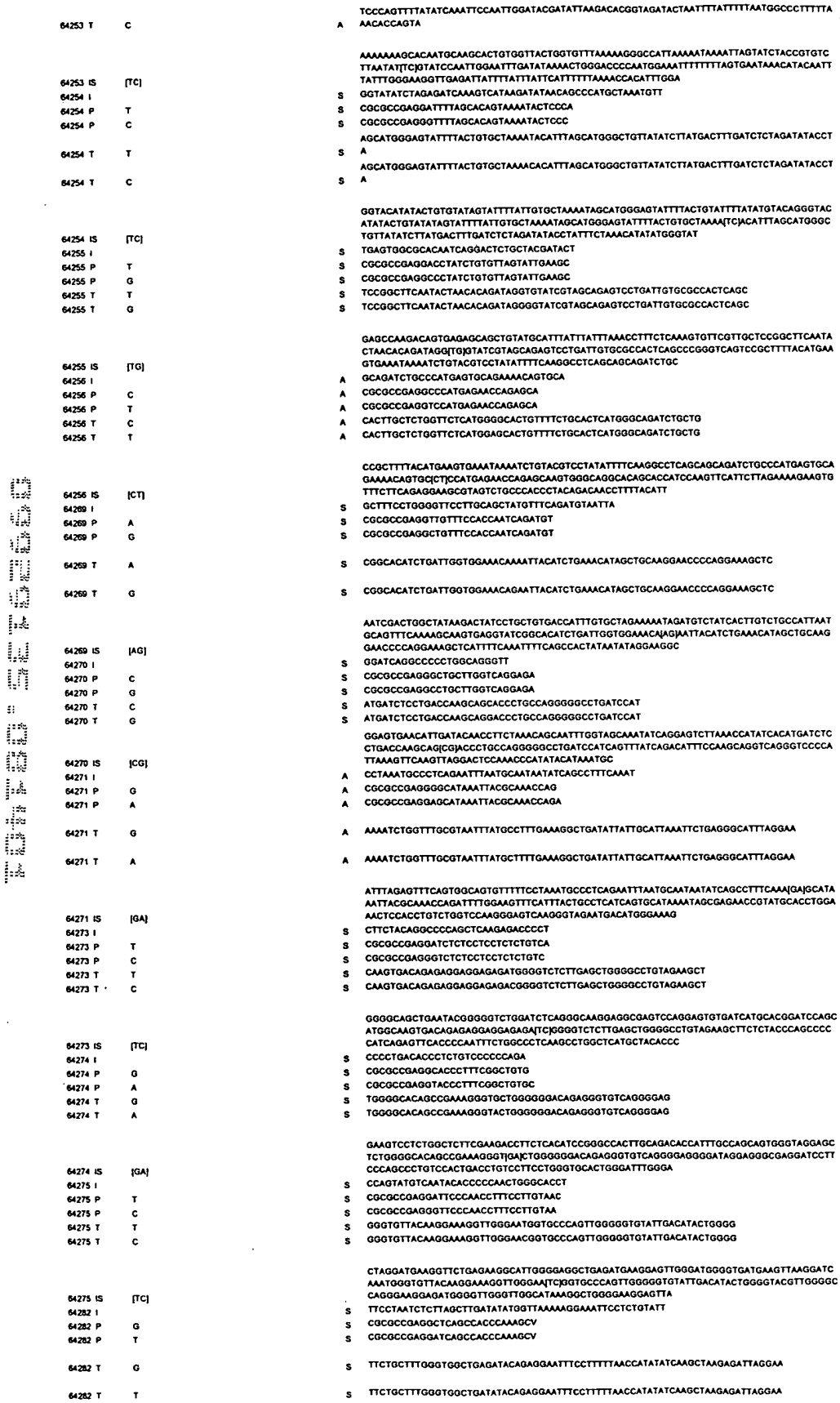
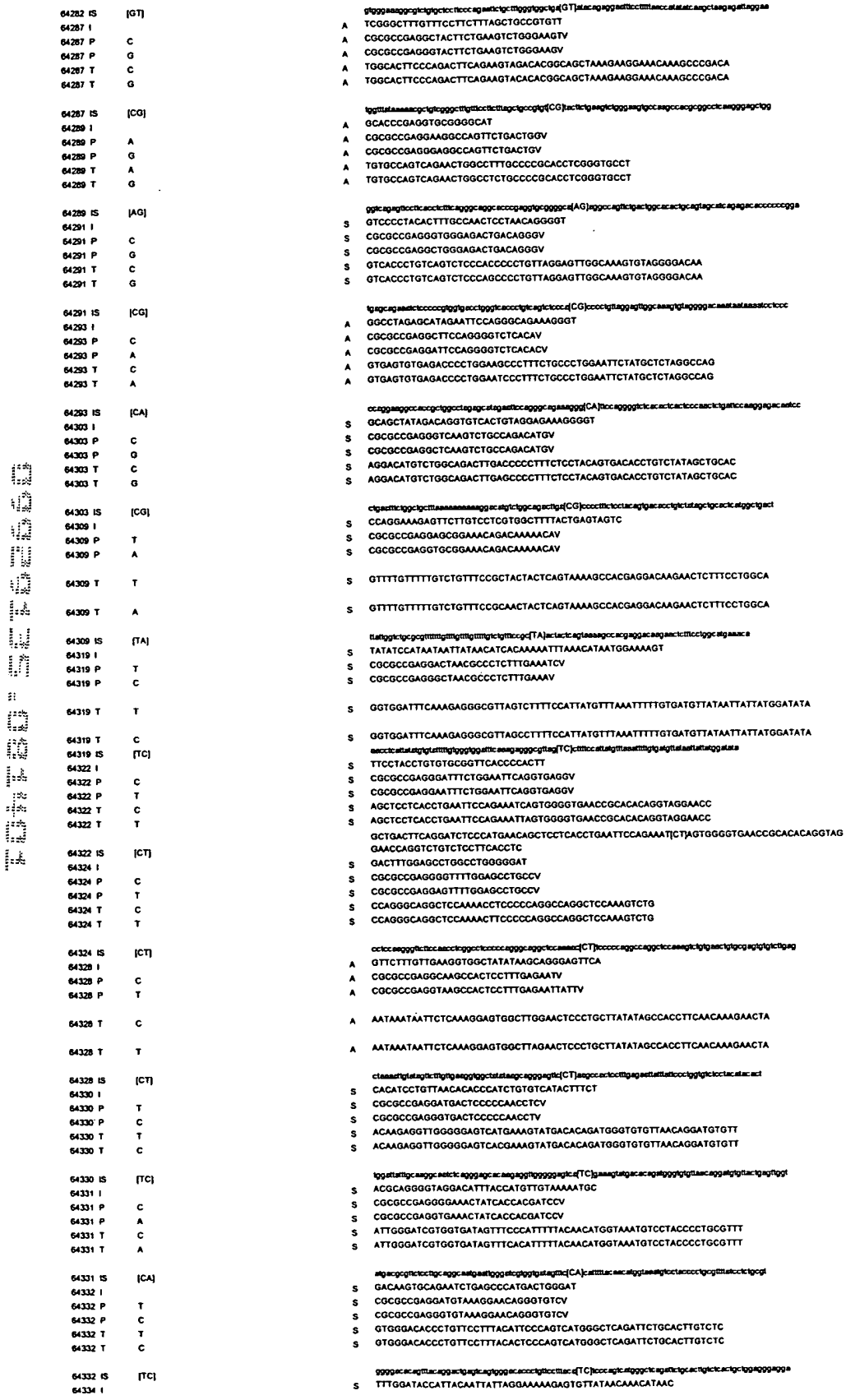

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TTAATAT[TC]GTATCCAATTGGAATTTGATATAAAACTGGGACCCCAATGGAAATTTTTTTTAGTGAATAAACATACAATT
TATTTGGGAAGGTTGAGATTATTTTATTTATTCATTTTTTAAAACCACATTTGGA
64253 IS [TC]
64254 I S GGTATATCTAGAGATCAAAGTCATAAGATATAACAGCCCATGCTAAATGTT
64254 P T S CGCGCCGAGGATTTTAGCACAGTAAAATACTCCCA
64254 P C S CGCGCCGAGGGTTTTAGCACAGTAAAATACTCCC
AGCATGGGAGTATTTTACTGTGCTAAAATACATTTAGCATGGGCTGTTATATCTTATGACTTTGATCTCTAGATATACCT
64254 T T S A
AGCATGGGAGTATTTTACTGTGCTAAAACACATTTAGCATGGGCTGTTATATCTTATGACTTTGATCTCTAGATATACCT
64254 T C S A
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ATATACTGTATATAGTATTTTATTGTGCTAAAATAGCATGGGAGTATTTTACTGTGCTAAAA[TC]ACATTTAGCATGGGC
TGTTATATCTTATGACTTTGATCTCTAGATATACCTATTTCTAAACATATATGGGTAT
64254 IS [TC]
64255 I S TGAGTGGCGCACAATCAGGACTCTGCTACGATACT
64255 P T S CGCGCCGAGGACCTATCTGTGTTAGTATTGAAGC
64255 P G S CGCGCCGAGGCCCTATCTGTGTTAGTATTGAAGC
64255 T T S TCCGGCTTCAATACTAACACAGATAGGTGTATCGTAGCAGAGTCCTGATTGTGCGCCACTCAGC
64255 T G S TCCGGCTTCAATACTAACACAGATAGGGGTATCGTAGCAGAGTCCTGATTGTGCGCCACTCAGC
GAGCCAAGACAGTGAGAGCAGCTGTATGCATTTATTTATTTAAACCTTTCTCAAAGTGTTCGTTGCTCCGGCTTCAATA
CTAACACAGATAGG[TG]GTATCGTAGCAGAGTCCTGATTGTGCGCCACTCAGCCCGGGTCAGTCCGCTTTTACATGAA
GTGAAATAAAATCTGTACGTCCTATATTTTCAAGGCCTCAGCAGCAGATCTGC
64255 IS [TG]
64256 I A GCAGATCTGCCCATGAGTGCAGAAAACAGTGCA
64256 P C A CGCGCCGAGGCCCATGAGAACCAGAGCA
64256 P T A CGCGCCGAGGTCCATGAGAACCAGAGCA
64256 T C A CACTTGCTCTGGTTCTCATGGGGCACTGTTTTCTGCACTCATGGGCAGATCTGCTG
64256 T T A CACTTGCTCTGGTTCTCATGGAGCACTGTTTTCTGCACTCATGGGCAGATCTGCTG
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64256 IS [CT]
64269 I S GCTTTCCTGGGGTTCCTTGCAGCTATGTTTCAGATGTAATTA
64269 P A S CGCGCCGAGGTTGTTTCCACCAATCAGATGT
64269 P G S CGCGCCGAGGCTGTTTCCACCAATCAGATGT
64269 T A S CGGCACATCTGATTGGTGGAAACAAAATTACATCTGAAACATAGCTGCAAGGAACCCCAGGAAAGCTC
64269 T G S CGGCACATCTGATTGGTGGAAACAGAATTACATCTGAAACATAGCTGCAAGGAACCCCAGGAAAGCTC
AATCGACTGGCTATAAGACTATCCTGCTGTGACCATTTGTGCTAGAAAAATAGATGTCTATCACTTGTCTGCCATTAAT
GCAGTTTCAAAAGCAAGTGAGGTATCGGCACATCTGATTGGTGGAAACA[AG]AATTACATCTGAAACATAGCTGCAAG
GAACCCCAGGAAAGCTCATTTTCAAATTTTCAGCCACTATAATATAGGAAGGC
64269 IS [AG]
64270 I S GGATCAGGCCCCCTGGCAGGGTT
64270 P C S CGCGCCGAGGGCTGCTTGGTCAGGAGA
64270 P G S CGCGCCGAGGCCTGCTTGGTCAGGAGA
64270 T C S ATGATCTCCTGACCAAGCAGCACCCTGCCAGGGGGCCTGATCCAT
64270 T G S ATGATCTCCTGACCAAGCAGGACCCTGCCAGGGGGCCTGATCCAT
GGAGTGAACATTGATACAACCTTCTAAACAGCAATTTGGTAGCAAATATCAGGAGTCTTAAACCATATCACATGATCTC
CTGACCAAGCAG[CG]ACCCTGCCAGGGGGCCTGATCCATCAGTTTATCAGACATTTCCAAGCAGGTCAGGGTCCCCA
TTAAAGTTCAAGTTAGGACTCCAAACCCATATACATAAATGC
64270 IS [CG]
64271 I A CCTAAATGCCCTCAGAATTTAATGCAATAATATCAGCCTTTCAAAT
64271 P G A CGCGCCGAGGGGCATAAATTACGCAAACCAG
64271 P A A CGCGCCGAGGAGCATAAATTACGCAAACCAGA
64271 T G A AAAATCTGGTTTGCGTAATTTATGCCTTTGAAAGGCTGATATTATTGCATTAAATTCTGAGGGCATTTAGGAA
64271 T A A AAAATCTGGTTTGCGTAATTTATGCTTTTGAAAGGCTGATATTATTGCATTAAATTCTGAGGGCATTTAGGAA
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AACTCCACCTGTCTGGTCCAAGGGAGTCAAGGGTAGAATGACATGGGAAAG
64271 IS [GA]
64273 I S CTTCTACAGGCCCCAGCTCAAGAGACCCCT
64273 P T S CGCGCCGAGGATCTCTCCTCCTCTCTGTCA
64273 P C S CGCGCCGAGGGTCTCTCCTCCTCTCTGTC
64273 T T S CAAGTGACAGAGAGGAGGAGAGATGGGGTCTCTTGAGCTGGGGCCTGTAGAAGCT
64273 T C S CAAGTGACAGAGAGGAGGAGAGACGGGGTCTCTTGAGCTGGGGCCTGTAGAAGCT
GGGGCAGCTGAATACGGGGGTCTGGATCTCAGGGCAAGGAGGCGAGTCCAGGAGTGTGATCATGCACGGATCCAGC
ATGGCAAGTGACAGAGAGGAGGAGAGA[TC]GGGGTCTCTTGAGCTGGGGCCTGTAGAAGCTTCTCTACCCAGCCCC
CATCAGAGTTCACCCCAATTTCTGGCCCTCAAGCCTGGCTCATGCTACACCC
64273 IS [TC]
64274 I S CCCCTGACACCCTCTGTCCCCCCAGA
64274 P G S CGCGCCGAGGCACCCTTTCGGCTGTG
64274 P A S CGCGCCGAGGTACCCTTTCGGCTGTGC
64274 T G S TGGGGCACAGCCGAAAGGGTGCTGGGGGGACAGAGGGTGTCAGGGGAG
64274 T A S TGGGGCACAGCCGAAAGGGTACTGGGGGGACAGAGGGTGTCAGGGGAG
GAAGTCCTCTGGCTCTTCGAAGACCTTCTCACATCCGGGCCACTTGCAGACACCATTTGCCAGCAGTGGGTAGGAGC
TCTGGGGCACAGCCGAAAGGGT[GA]CTGGGGGGACAGAGGGTGTCAGGGGAGGGGATAGGAGGGCGAGGATCCTT
CCCAGCCCTGTCCACTGACCTGTCCTTCCTGGGTGCACTGGGATTTGGGA
64274 IS [GA]
64275 I S CCAGTATGTCAATACACCCCCAACTGGGCACCT
64275 P T S CGCGCCGAGGATTCCCAACCTTTCCTTGTAAC
64275 P C S CGCGCCGAGGGTTCCCAACCTTTCCTTGTAA
64275 T T S GGGTGTTACAAGGAAAGGTTGGGAATGGTGCCCAGTTGGGGGTGTATTGACATACTGGGG
64275 T C S GGGTGTTACAAGGAAAGGTTGGGAACGGTGCCCAGTTGGGGGTGTATTGACATACTGGGG
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CAGGGAAGGAGATGGGGTTGGGTTGGCATAAAGGCTGGGGAAGGAGTTA
64275 IS [TC]
64282 I S TTCCTAATCTCTTAGCTTGATATATGGTTAAAAAGGAAATTCCTCTGTATT
64282 P G S CGCGCCGAGGCTCAGCCACCCAAAGCV
64282 P T S CGCGCCGAGGATCAGCCACCCAAAGCV
64282 T G S TTCTGCTTTGGGTGGCTGAGATACAGAGGAATTTCCTTTTTAACCATATATCAAGCTAAGAGATTAGGAA
64282 T T S TTCTGCTTTGGGTGGCTGATATACAGAGGAATTTCCTTTTTAACCATATATCAAGCTAAGAGATTAGGAA

FIGURE 129D




64334 P A S CGCGCCGAGGTAGCAGCTCCTGTTTAATCATTTV
64334 P T S CGCGCCGAGGAAGCAGCTCCTGTTTAATCATTV
64334 T A S CATGAAATGATTAAACAGGAGCTGCTATTATGTTTGTTATAACACTCTTTTTCCTAATAATTGTAATGGTATCCAAA
64334 T T S CATGAAATGATTAAACAGGAGCTGCTTTTATGTTTGTTATAACACTCTTTTTCCTAATAATTGTAATGGTATCCAAA
64334 IS [AT]
64337 I S TGACCCTCGTCGCCTGGCTCAGGTT
64337 P T S CGCGCCGAGGATGTCCCTCAGGTGTCTCV
64337 P C S CGCGCCGAGGGTGTCCCTCAGGTGTCTV
64337 T T S AGAGGAGACACCTGAGGGACATACCTGAGCCAGGCGACGAGGGTCAAG
64337 T C S AGAGGAGACACCTGAGGGACACACCTGAGCCAGGCGACGAGGGTCAAG
64337 IS [TC]
64338 I A CCTGGTGTGGGCTCCCTTCTGTGGTGTA
64338 P T A CGCGCCGAGGTCCAGTCAGATGGCCATV
64338 P C A CGCGCCGAGGCCCAGTCAGATGGCCAV
64338 T T A CTCGATGGCCATCTGACTGGAACACCACAGAAGGGAGCCCACACCAGGGA
64338 T C A CTCGATGGCCATCTGACTGGGACACCACAGAAGGGAGCCCACACCAGGGA
64338 IS [TC]
64343 I S CCTCATGGCATTTTGGGGCCTGCTCTGGT
64343 P C S CGCGCCGAGGGTCTGGGGCATCTTTTGGV
64343 P T S CGCGCCGAGGATCTGGGGCATCTTTTGGV
64343 T C S ACTCCCAAAAGATGCCCCAGACCCAGAGCAGGCCCCAAAATGCCATGAGGGC
64343 T T S ACTCCCAAAAGATGCCCCAGATCCAGAGCAGGCCCCAAAATGCCATGAGGGC
64343 IS [CT]
64351 I A GGCCTCCAGCCCAAATGTTCTGATGCCAT
64351 P C A CGCGCCGAGGCTTCTGAGCTCTTCCTGTTTTV
64351 P G A CGCGCCGAGGGTTCTGAGCTCTTCCTGTTTTV
64351 T C A TGGCAAAACAGGAAGAGCTCAGAAGTGGCATCAGAACATTTGGGCTGGAGGCCCA
64351 T G A TGGCAAAACAGGAAGAGCTCAGAACTGGCATCAGAACATTTGGGCTGGAGGCCCA
64351 IS [CG]
64357 I A AATGAGAAAAGATGTTTAAAGCAGTAATATAGAATTTGTGGTGAGGGGACA
64357 P C A CGCGCCGAGGCGTCAGCTTGGAGATATGTTCV
64357 P T A CGCGCCGAGGTGTCAGCTTGGAGATATGTTCV
64357 T C A CTGTGAACATATCTCCAAGCTGACGGTCCCCTCACCACAAATTCTATATTACTGCTTTAAACATCTTTTCTCATT
64357 T T A CTGTGAACATATCTCCAAGCTGACAGTCCCCTCACCACAAATTCTATATTACTGCTTTAAACATCTTTTCTCATT
64357 IS [CT]
64363 I A TGCTCCCACTCCCATGGTCCCTGTGTTCT
64363 P G A CGCGCCGAGGGCAGCCTCACCACTGV
64363 P C A CGCGCCGAGGCCAGCCTCACCACTGGV
64363 T G A TCTGCCAGTGGTGAGGCTGCGAACACAGGGACCATGGGAGTGGGAGCAGC
64363 T C A TCTGCCAGTGGTGAGGCTGGGAACACAGGGACCATGGGAGTGGGAGCAGC
64363 IS [GC]
64374 I S CAGATCTGCCTGGAAGCCAGGGCACTGT
64374 P C S CGCGCCGAGGGCAGGGCCTGAGGGV
64374 P T S CGCGCCGAGGACAGGGCCTGAGGGV
64374 T C S CTGACCCTCAGGCCCTGCCAGTGCCCTGGCTTCCAGGCAGATCTGGG
64374 T T S CTGACCCTCAGGCCCTGTCAGTGCCCTGGCTTCCAGGCAGATCTGGG
64374 IS [CT]
67000 I A CCTGGAGAGGCTGTCCAGAGCCTGGATGT
67000 P A A CGCGCCGAGGAAGTGATCTGTCCCTGAGCV
67000 P G A CGCGCCGAGGGAGTGATCTGTCCCTGAGCV
67000 T A A GATGGCTCAGGGACAGATCACTTCATCCAGGCTCTGGACAGCCTCTCCAGGTA
67000 T G A GATGGCTCAGGGACAGATCACTCCATCCAGGCTCTGGACAGCCTCTCCAGGTA
67000 IS [AG]
67006 I A CCTCAAGGTTGCCCGAATTGGCCAACTCTACAGT
67006 P G A CGCGCCGAGGGAGGGTTGGTGTCCCAV
67006 P A A CGCGCCGAGGAAGGGTTGGTGTCCCAV
67006 T G A TCCCTGGGACACCAACCCTCCTGTAGAGTTGGCCAATTCGGGCAACCTTGAGGGC
67006 T A A TCCCTGGGACACCAACCCTTCTGTAGAGTTGGCCAATTCGGGCAACCTTGAGGGC
67006 IS [GA]
67007 I A TGGTTGCCAGGAGACTGACCTCACCCCT
67007 P G A CGCGCCGAGGGCTTAGTGTTCCTCATGCCV
67007 P A A CGCGCCGAGGACTTAGTGTTCCTCATGCCTV
67007 T G A AGGCAGGCATGAGGAACACTAAGCGGGGTGAGGTCAGTCTCCTGGCAACCAAG
67007 T A A AGGCAGGCATGAGGAACACTAAGTGGGGTGAGGTCAGTCTCCTGGCAACCAAG
67007 IS [GA]
67023 I A GGTATTGTTCATGGTGTTCTTTGGGGCCCCCTCT
67023 P A A CGCGCCGAGGACTTTCCTGTTGGAGGGAV
67023 P C A CGCGCCGAGGCCTTTCCTGTTGGAGGGAV
67023 T A A GCAGTCCCTCCAACAGGAAAGTGAGGGGGCCCCAAAGAACACCATGAACAATACCTA
67023 T C A GCAGTCCCTCCAACAGGAAAGGGAGGGGGCCCCAAAGAACACCATGAACAATACCTA
67023 IS [AC]
67035 I A GAACATGCTGGAGAAGAGAATATCACAGCCTGACTGTAGACTTA
67035 P T A CGCGCCGAGGTTGGGGATGTGTTTTATTTAAATATGTAAV
67035 P C A CGCGCCGAGGCTGGGGATGTGTTTTATTTAAATATGTAAV
67035 T T A TATTTTACATATTTAAATAAAACACATCCCCAAAAGTCTACAGTCAGGCTGTGATATTCTCTTCTCCAGCATGTTCTG
67035 T C A TATTTTACATATTTAAATAAAACACATCCCCAGAAGTCTACAGTCAGGCTGTGATATTCTCTTCTCCAGCATGTTCTG
67035 IS [TC]
67036 I S CCTGAAACCACACAGAATTATAAACCAATAACATCACTCTGCCAGCACT
67036 P T S CGCGCCGAGGATGGGACTCAGTGGGCV
67036 P C S CGCGCCGAGGGTGGGACTCAGTGGGCV

FIGURE 129D

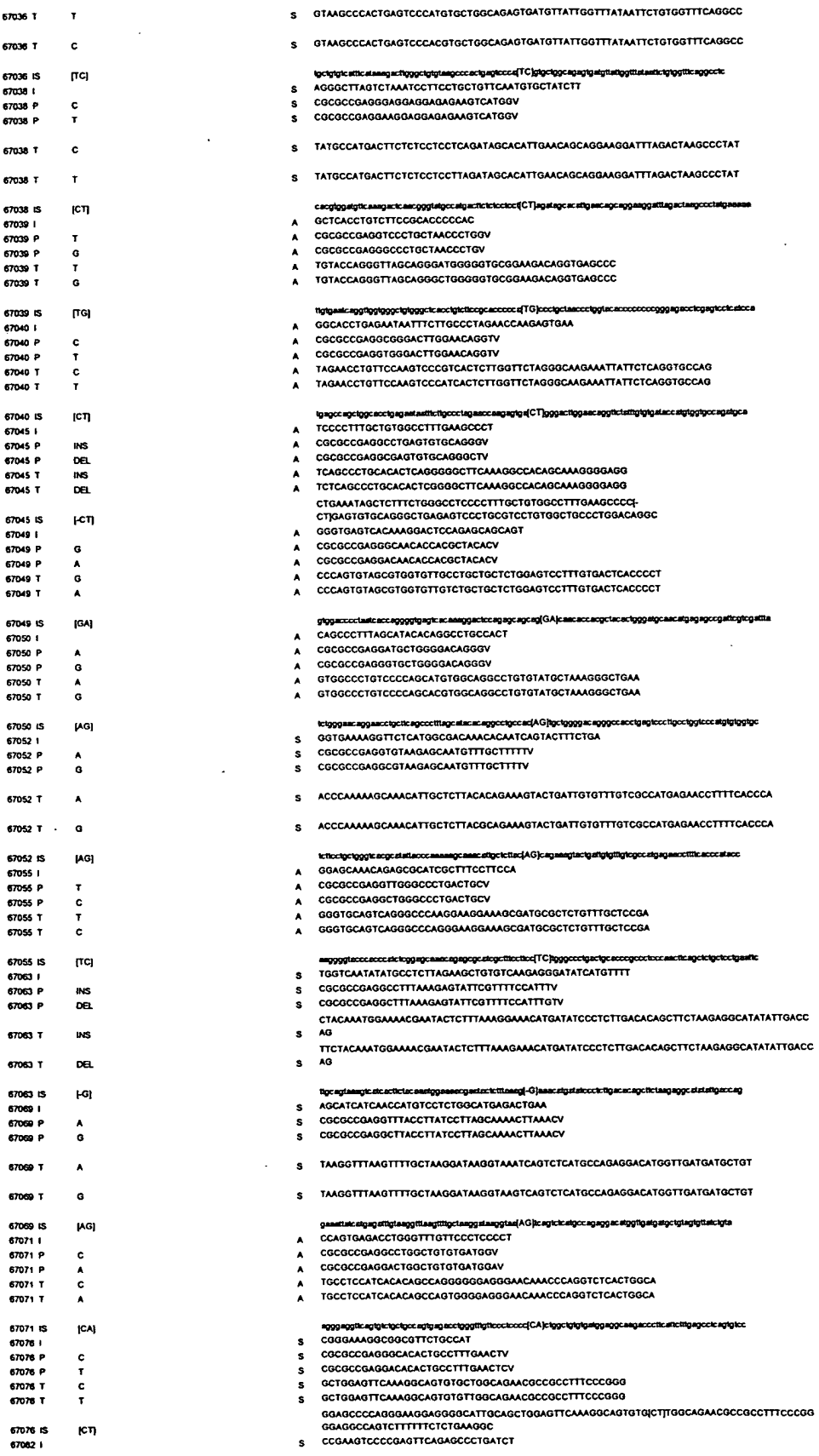

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67036 T C S GTAAGCCCACTGAGTCCCACGTGCTGGCAGAGTGATGTTATTGGTTTATAATTCTGTGGTTTCAGGCC
67036 IS [TC]
67038 I S AGGGCTTAGTCTAAATCCTTCCTGCTGTTCAATGTGCTATCTT
67038 P C S CGCGCCGAGGGAGGAGGAGAAGTCATGGV
67038 P T S CGCGCCGAGGAAGGAGGAGAAGTCATGGV
67038 T C S TATGCCATGACTTCTCTCCTCCTCAGATAGCACATTGAACAGCAGGAAGGATTTAGACTAAGCCCTAT
67038 T T S TATGCCATGACTTCTCTCCTCCTTAGATAGCACATTGAACAGCAGGAAGGATTTAGACTAAGCCCTAT
67038 IS [CT]
67039 I A GCTCACCTGTCTTCCGCACCCCCAC
67039 P T A CGCGCCGAGGTCCCTGCTAACCCTGGV
67039 P G A CGCGCCGAGGGCCCTGCTAACCCTGV
67039 T T A TGTACCAGGGTTAGCAGGGATGGGGGTGCGGAAGACAGGTGAGCCC
67039 T G A TGTACCAGGGTTAGCAGGGCTGGGGGTGCGGAAGACAGGTGAGCCC
67039 IS [TG]
67040 I A GGCACCTGAGAATAATTTCTTGCCCTAGAACCAAGAGTGAA
67040 P C A CGCGCCGAGGCGGGACTTGGAACAGGTV
67040 P T A CGCGCCGAGGTGGGACTTGGAACAGGTV
67040 T C A TAGAACCTGTTCCAAGTCCCGTCACTCTTGGTTCTAGGGCAAGAAATTATTCTCAGGTGCCAG
67040 T T A TAGAACCTGTTCCAAGTCCCATCACTCTTGGTTCTAGGGCAAGAAATTATTCTCAGGTGCCAG
67040 IS [CT]
67045 I A TCCCCTTTGCTGTGGCCTTTGAAGCCCT
67045 P INS A CGCGCCGAGGCCTGAGTGTGCAGGGV
67045 P DEL A CGCGCCGAGGCGAGTGTGCAGGGCTV
67045 T INS A TCAGCCCTGCACACTCAGGGGGCTTCAAAGGCCACAGCAAAGGGGAGG
67045 T DEL A TCTCAGCCCTGCACACTCGGGGCTTCAAAGGCCACAGCAAAGGGGAGG
67045 IS [-CT]
67049 I A GGGTGAGTCACAAAGGACTCCAGAGCAGCAGT
67049 P G A CGCGCCGAGGGCAACACCACGCTACACV
67049 P A A CGCGCCGAGGACAACACCACGCTACACV
67049 T G A CCCAGTGTAGCGTGGTGTTGCCTGCTGCTCTGGAGTCCTTTGTGACTCACCCCT
67049 T A A CCCAGTGTAGCGTGGTGTTGTCTGCTGCTCTGGAGTCCTTTGTGACTCACCCCT
67049 IS [GA]
67050 I A CAGCCCTTTAGCATACACAGGCCTGCCACT
67050 P A A CGCGCCGAGGATGCTGGGGACAGGGV
67050 P G A CGCGCCGAGGGTGCTGGGGACAGGGV
67050 T A A GTGGCCCTGTCCCCAGCATGTGGCAGGCCTGTGTATGCTAAAGGGCTGAA
67050 T G A GTGGCCCTGTCCCCAGCACGTGGCAGGCCTGTGTATGCTAAAGGGCTGAA
67050 IS [AG]
67052 I S GGTGAAAAGGTTCTCATGGCGACAAACACAATCAGTACTTTCTGA
67052 P A S CGCGCCGAGGTGTAAGAGCAATGTTTGCTTTTTV
67052 P G S CGCGCCGAGGCGTAAGAGCAATGTTTGCTTTTV
67052 T A S ACCCAAAAAGCAAACATTGCTCTTACACAGAAAGTACTGATTGTGTTTGTCGCCATGAGAACCTTTTCACCCA
67052 T G S ACCCAAAAAGCAAACATTGCTCTTACGCAGAAAGTACTGATTGTGTTTGTCGCCATGAGAACCTTTTCACCCA
67052 IS [AG]
67055 I A GGAGCAAACAGAGCGCATCGCTTTCCTTCCA
67055 P T A CGCGCCGAGGTTGGGCCCTGACTGCV
67055 P C A CGCGCCGAGGCTGGGCCCTGACTGCV
67055 T T A GGGTGCAGTCAGGGCCCAAGGAAGGAAAGCGATGCGCTCTGTTTGCTCCGA
67055 T C A GGGTGCAGTCAGGGCCCAGGGAAGGAAAGCGATGCGCTCTGTTTGCTCCGA
67055 IS [TC]
67063 I S TGGTCAATATATGCCTCTTAGAAGCTGTGTCAAGAGGGATATCATGTTTT
67063 P INS S CGCGCCGAGGCCTTTAAAGAGTATTCGTTTTCCATTTV
67063 P DEL S CGCGCCGAGGCTTTAAAGAGTATTCGTTTTCCATTTGTV
67063 T INS S CTACAAATGGAAAACGAATACTCTTTAAAGGAAACATGATATCCCTCTTGACACAGCTTCTAAGAGGCATATATTGACC AG
67063 T DEL S TTCTACAAATGGAAAACGAATACTCTTTAAAGAAACATGATATCCCTCTTGACACAGCTTCTAAGAGGCATATATTGACC AG
67063 IS [-G]
67069 I S AGCATCATCAACCATGTCCTCTGGCATGAGACTGAA
67069 P A S CGCGCCGAGGTTTACCTTATCCTTAGCAAAACTTAAACV
67069 P G S CGCGCCGAGGCTTACCTTATCCTTAGCAAAACTTAAACV
67069 T A S TAAGGTTTAAGTTTTGCTAAGGATAAGGTAAATCAGTCTCATGCCAGAGGACATGGTTGATGATGCTGT
67069 T G S TAAGGTTTAAGTTTTGCTAAGGATAAGGTAAGTCAGTCTCATGCCAGAGGACATGGTTGATGATGCTGT
67069 IS [AG]
67071 I A CCAGTGAGACCTGGGTTTGTTCCCTCCCCT
67071 P C A CGCGCCGAGGCCTGGCTGTGTGATGGV
67071 P A A CGCGCCGAGGACTGGCTGTGTGATGGAV
67071 T C A TGCCTCCATCACACAGCCAGGGGGGAGGGAACAAACCCAGGTCTCACTGGCA
67071 T A A TGCCTCCATCACACAGCCAGTGGGGAGGGAACAAACCCAGGTCTCACTGGCA
67071 IS [CA]
67076 I S CGGGAAAGGCGGCGTTCTGCCAT
67076 P C S CGCGCCGAGGGCACACTGCCTTTGAACTV
67076 P T S CGCGCCGAGGACACACTGCCTTTGAACTCV
67076 T C S GCTGGAGTTCAAAGGCAGTGTGCTGGCAGAACGCCGCCTTTCCCGGG
67076 T T S GCTGGAGTTCAAAGGCAGTGTGTTGGCAGAACGCCGCCTTTCCCGGG
67076 IS [CT]
67082 I S CCGAAGTCCCCGAGTTCAGAGCCCTGATCT

FIGURE 129D

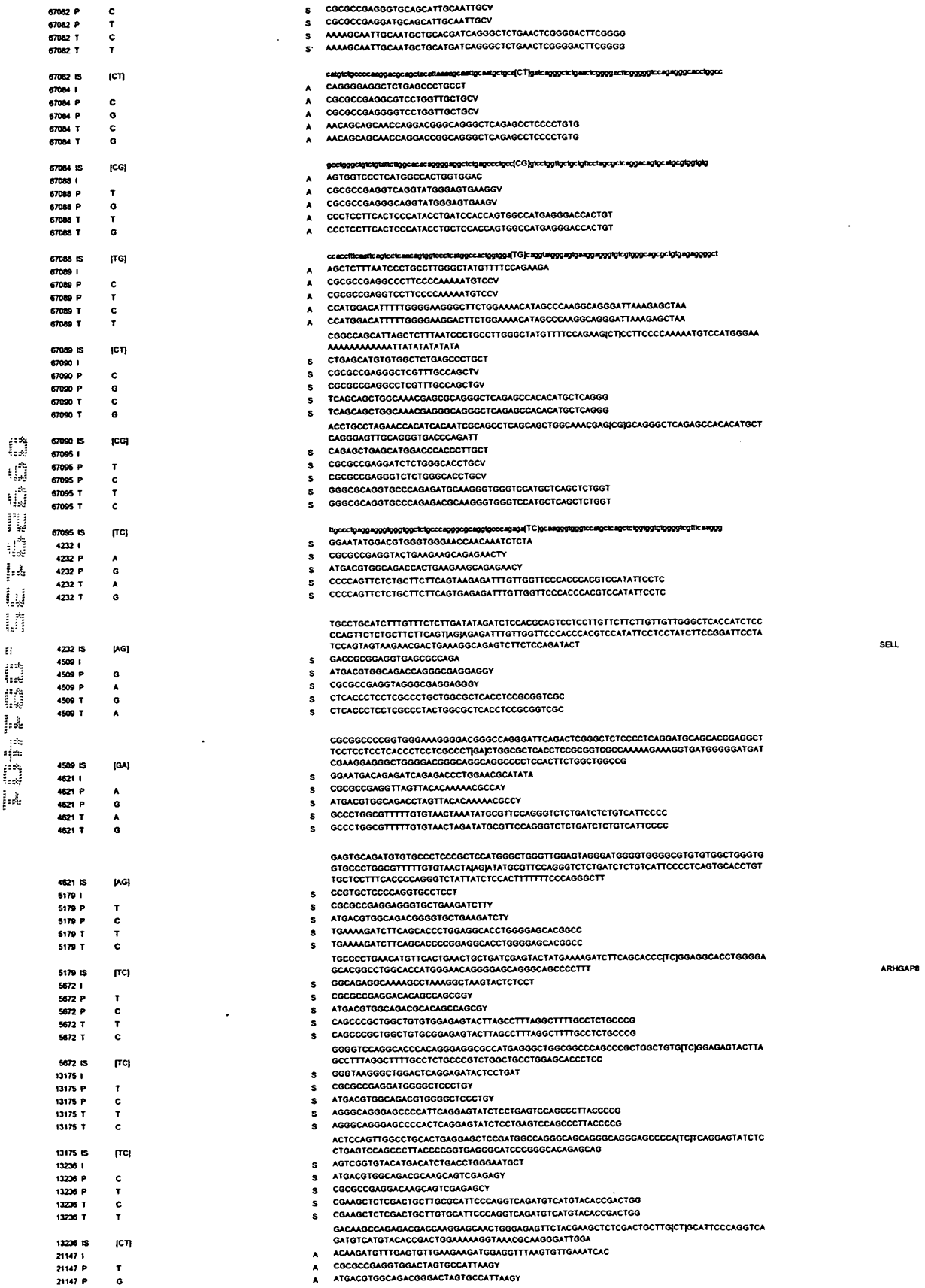

67082 P C S CGCGCCGAGGGTGCAGCATTGCAATTGCV
67082 P T S CGCGCCGAGGATGCAGCATTGCAATTGCV
67082 T C S AAAAGCAATTGCAATGCTGCACGATCAGGGCTCTGAACTCGGGGACTTCGGGG
67082 T T S AAAAGCAATTGCAATGCTGCATGATCAGGGCTCTGAACTCGGGGACTTCGGGG
67082 IS [CT]
67084 I A CAGGGGAGGCTCTGAGCCCTGCCT
67084 P C A CGCGCCGAGGCGTCCTGGTTGCTGCV
67084 P G A CGCGCCGAGGGGTCCTGGTTGCTGCV
67084 T C A AACAGCAGCAACCAGGACGGGCAGGGCTCAGAGCCTCCCCTGTG
67084 T G A AACAGCAGCAACCAGGACCGGCAGGGCTCAGAGCCTCCCCTGTG
67084 IS [CG]
67088 I A AGTGGTCCCTCATGGCCACTGGTGGAC
67088 P T A CGCGCCGAGGTCAGGTATGGGAGTGAAGGV
67088 P G A CGCGCCGAGGGCAGGTATGGGAGTGAAGV
67088 T T A CCCTCCTTCACTCCCATACCTGATCCACCAGTGGCCATGAGGGACCACTGT
67088 T G A CCCTCCTTCACTCCCATACCTGCTCCACCAGTGGCCATGAGGGACCACTGT
67088 IS [TG]
67089 I A AGCTCTTTAATCCCTGCCTTGGGCTATGTTTTCCAGAAGA
67089 P C A CGCGCCGAGGCCCTTCCCCAAAAATGTCCV
67089 P T A CGCGCCGAGGTCCTTCCCCAAAAATGTCCV
67089 T C A CCATGGACATTTTTGGGGAAGGGCTTCTGGAAAACATAGCCCAAGGCAGGGATTAAAGAGCTAA
67089 T T A CCATGGACATTTTTGGGGAAGGACTTCTGGAAAACATAGCCCAAGGCAGGGATTAAAGAGCTAA
67089 IS [CT]
67090 I S CTGAGCATGTGTGGCTCTGAGCCCTGCT
67090 P C S CGCGCCGAGGGCTCGTTTGCCAGCTV
67090 P G S CGCGCCGAGGCCTCGTTTGCCAGCTGV
67090 T C S TCAGCAGCTGGCAAACGAGCGCAGGGCTCAGAGCCACACATGCTCAGGG
67090 T G S TCAGCAGCTGGCAAACGAGGGCAGGGCTCAGAGCCACACATGCTCAGGG
67090 IS [CG]
67095 I S CAGAGCTGAGCATGGACCCACCCTTGCT
67095 P T S CGCGCCGAGGATCTCTGGGCACCTGCV
67095 P C S CGCGCCGAGGGTCTCTGGGCACCTGCV
67095 T T S GGGCGCAGGTGCCCAGAGATGCAAGGGTGGGTCCATGCTCAGCTCTGGT
67095 T C S GGGCGCAGGTGCCCAGAGACGCAAGGGTGGGTCCATGCTCAGCTCTGGT
67095 IS [TC]
4232 I S GGAATATGGACGTGGGTGGGAACCAACAAATCTCTA
4232 P A S CGCGCCGAGGTACTGAAGAAGCAGAGAACTY
4232 P G S ATGACGTGGCAGACCACTGAAGAAGCAGAGAACY
4232 T A S CCCCAGTTCTCTGCTTCTTCAGTAAGAGATTTGTTGGTTCCCACCCACGTCCATATTCCTC
4232 T G S CCCCAGTTCTCTGCTTCTTCAGTGAGAGATTTGTTGGTTCCCACCCACGTCCATATTCCTC
4232 IS [AG]
4509 I S GACCGCGGAGGTGAGCGCCAGA
4509 P G S ATGACGTGGCAGACCAGGGCGAGGAGGY
4509 P A S CGCGCCGAGGTAGGGCGAGGAGGGY
4509 T G S CTCACCCTCCTCGCCCTGCTGGCGCTCACCTCCGCGGTCGC
4509 T A S CTCACCCTCCTCGCCCTACTGGCGCTCACCTCCGCGGTCGC
4509 IS [GA]
4621 I S GGAATGACAGAGATCAGAGACCCTGGAACGCATATA
4621 P A S CGCGCCGAGGTTAGTTACACAAAAACGCCAY
4621 P G S ATGACGTGGCAGACCTAGTTACACAAAAACGCCY
4621 T A S GCCCTGGCGTTTTTGTGTAACTAAATATGCGTTCCAGGGTCTCTGATCTCTGTCATTCCCC
4621 T G S GCCCTGGCGTTTTTGTGTAACTAGATATGCGTTCCAGGGTCTCTGATCTCTGTCATTCCCC
4621 IS [AG]
5179 I S CCGTGCTCCCCAGGTGCCTCCT
5179 P T S CGCGCCGAGGAGGGGTGCTGAAGATCTTY
5179 P C S ATGACGTGGCAGACGGGGTGCTGAAGATCTY
5179 T T S TGAAAAGATCTTCAGCACCCTGGAGGCACCTGGGGAGCACGGCC
5179 T C S TGAAAAGATCTTCAGCACCCCGGAGGCACCTGGGGAGCACGGCC
5179 IS [TC]
5672 I S GGCAGAGGCAAAAGCCTAAAGGCTAAGTACTCTCCT
5672 P T S CGCGCCGAGGACACAGCCAGCGGY
5672 P C S ATGACGTGGCAGACGCACAGCCAGCGY
5672 T T S CAGCCCGCTGGCTGTGTGGAGAGTACTTAGCCTTTAGGCTTTTGCCTCTGCCCG
5672 T C S CAGCCCGCTGGCTGTGCGGAGAGTACTTAGCCTTTAGGCTTTTGCCTCTGCCCG
5672 IS [TC]
13175 I S GGGTAAGGGCTGGACTCAGGAGATACTCCTGAT
13175 P T S CGCGCCGAGGATGGGGCTCCCTGY
13175 P C S ATGACGTGGCAGACGTGGGGCTCCCTGY
13175 T T S AGGGCAGGGAGCCCCATTCAGGAGTATCTCCTGAGTCCAGCCCTTACCCCG
13175 T C S AGGGCAGGGAGCCCCACTCAGGAGTATCTCCTGAGTCCAGCCCTTACCCCG
13175 IS [TC]
13236 I S AGTCGGTGTACATGACATCTGACCTGGGAATGCT
13236 P C S ATGACGTGGCAGACGCAAGCAGTCGAGAGY
13236 P T S CGCGCCGAGGACAAGCAGTCGAGAGCY
13236 T C S CGAAGCTCTCGACTGCTTGCGCATTCCCAGGTCAGATGTCATGTACACCGACTGG
13236 T T S CGAAGCTCTCGACTGCTTGTGCATTCCCAGGTCAGATGTCATGTACACCGACTGG
13236 IS [CT]
21147 I A ACAAGATGTTTGAGTGTTGAAGAAGATGGAGGTTTAAGTGTTGAAATCAC
21147 P T A CGCGCCGAGGTGGACTAGTGCCATTAAGY
21147 P G A ATGACGTGGCAGACGGGACTAGTGCCATTAAGY
SELL
ARHGAP8

FIGURE 129D

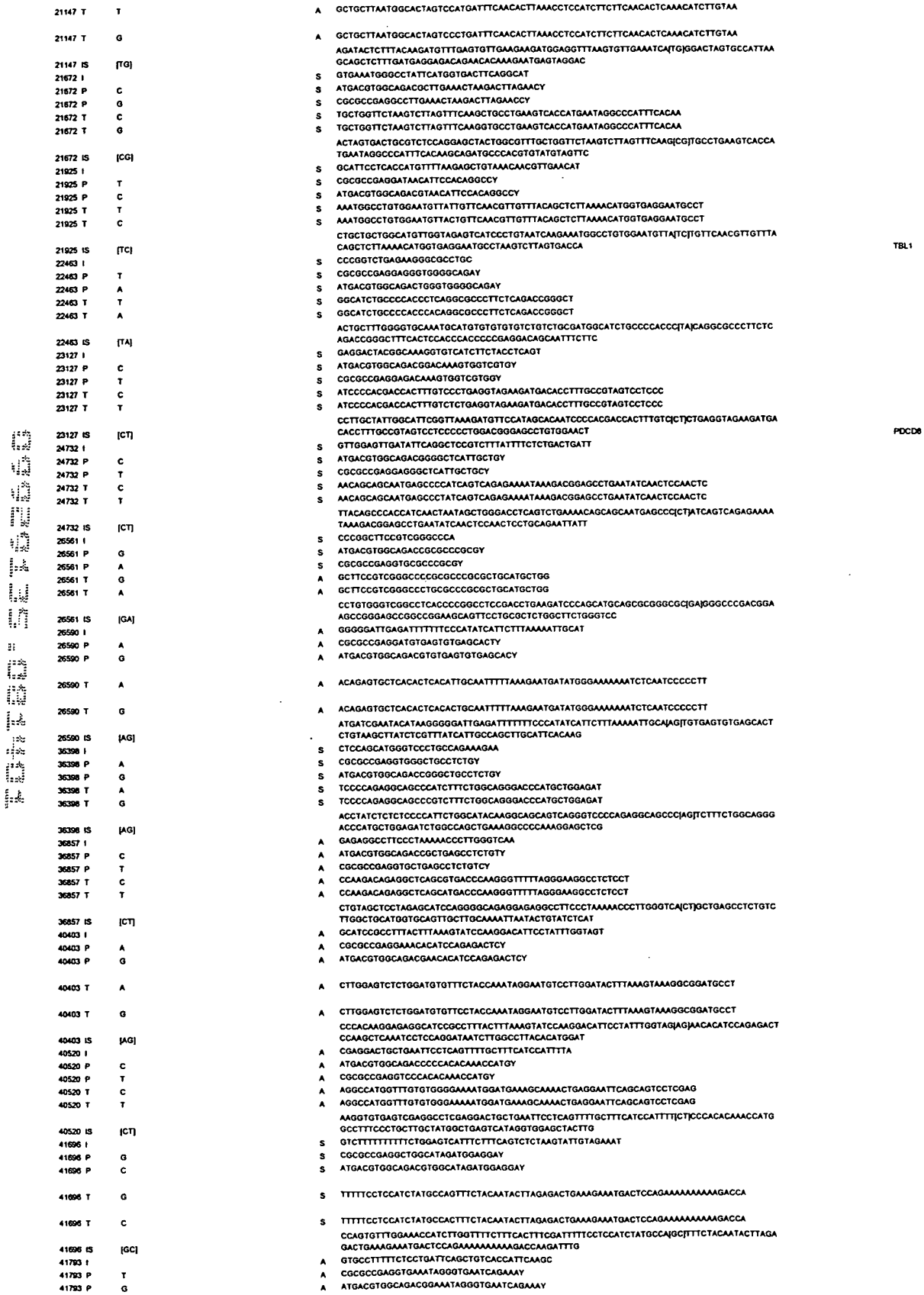

21147 T T A GCTGCTTAATGGCACTAGTCCATGATTTCAACACTTAAACCTCCATCTTCTTCAACACTCAAACATCTTGTAA
21147 T G A GCTGCTTAATGGCACTAGTCCCTGATTTCAACACTTAAACCTCCATCTTCTTCAACACTCAAACATCTTGTAA
AGATACTCTTTACAAGATGTTTGAGTGTTGAAGAAGATGGAGGTTTAAGTGTTGAAATCA[TG]GGACTAGTGCCATTAA
21147 IS [TG] GCAGCTCTTTGATGAGGAGACAGAACACAAAGAATGAGTAGGAC
21672 I S GTGAAATGGGCCTATTCATGGTGACTTCAGGCAT
21672 P C S ATGACGTGGCAGACGCTTGAAACTAAGACTTAGAACY
21672 P G S CGCGCCGAGGCCTTGAAACTAAGACTTAGAACCY
21672 T C S TGCTGGTTCTAAGTCTTAGTTTCAAGCTGCCTGAAGTCACCATGAATAGGCCCATTTCACAA
21672 T G S TGCTGGTTCTAAGTCTTAGTTTCAAGGTGCCTGAAGTCACCATGAATAGGCCCATTTCACAA
ACTAGTGACTGCGTCTCCAGGAGCTACTGGCGTTTGCTGGTTCTAAGTCTTAGTTTCAAG[CG]TGCCTGAAGTCACCA
21672 IS [CG] TGAATAGGCCCATTTCACAAGCAGATGCCCACGTGTATGTAGTTC
21925 I S GCATTCCTCACCATGTTTTAAGAGCTGTAAACAACGTTGAACAT
21925 P T S CGCGCCGAGGATAACATTCCACAGGCCY
21925 P C S ATGACGTGGCAGACGTAACATTCCACAGGCCY
21925 T T S AAATGGCCTGTGGAATGTTATTGTTCAACGTTGTTTACAGCTCTTAAAACATGGTGAGGAATGCCT
21925 T C S AAATGGCCTGTGGAATGTTACTGTTCAACGTTGTTTACAGCTCTTAAAACATGGTGAGGAATGCCT
CTGCTGCTGGCATGTTGGTAGAGTCATCCCTGTAATCAAGAAATGGCCTGTGGAATGTTA[TC]TGTTCAACGTTGTTTA
21925 IS [TC] CAGCTCTTAAAACATGGTGAGGAATGCCTAAGTCTTAGTGACCA TBL1
22463 I S CCCGGTCTGAGAAGGGCGCCTGC
22463 P T S CGCGCCGAGGAGGGTGGGGCAGAY
22463 P A S ATGACGTGGCAGACTGGGTGGGGCAGAY
22463 T T S GGCATCTGCCCCACCCTCAGGCGCCCTTCTCAGACCGGGCT
22463 T A S GGCATCTGCCCCACCCACAGGCGCCCTTCTCAGACCGGGCT
ACTGCTTTGGGGTGCAAATGCATGTGTGTGTGTCTGTCTGCGATGGCATCTGCCCCACCC[TA]CAGGCGCCCTTCTC
22463 IS [TA] AGACCGGGCTTTCACTCCACCCACCCCCGAGGACAGCAATTTCTTC
23127 I S GAGGACTACGGCAAAGGTGTCATCTTCTACCTCAGT
23127 P C S ATGACGTGGCAGACGGACAAAGTGGTCGTGY
23127 P T S CGCGCCGAGGAGACAAAGTGGTCGTGGY
23127 T C S ATCCCCACGACCACTTTGTCCCTGAGGTAGAAGATGACACCTTTGCCGTAGTCCTCCC
23127 T T S ATCCCCACGACCACTTTGTCTCTGAGGTAGAAGATGACACCTTTGCCGTAGTCCTCCC
CCTTGCTATTGGCATTCGGTTAAAGATGTTCCATAGCACAATCCCCACGACCACTTTGTC[CT]CTGAGGTAGAAGATGA
23127 IS [CT] CACCTTTGCCGTAGTCCTCCCCCTGGACGGGAGCCTGTGGAACT PDCD8
24732 I S GTTGGAGTTGATATTCAGGCTCCGTCTTTATTTTCTCTGACTGATT
24732 P C S ATGACGTGGCAGACGGGGCTCATTGCTGY
24732 P T S CGCGCCGAGGAGGGCTCATTGCTGCY
24732 T C S AACAGCAGCAATGAGCCCCATCAGTCAGAGAAAATAAAGACGGAGCCTGAATATCAACTCCAACTC
24732 T T S AACAGCAGCAATGAGCCCTATCAGTCAGAGAAAATAAAGACGGAGCCTGAATATCAACTCCAACTC
TTACAGCCCACCATCAACTAATAGCTGGGACCTCAGTCTGAAAACAGCAGCAATGAGCCC[CT]ATCAGTCAGAGAAAA
24732 IS [CT] TAAAGACGGAGCCTGAATATCAACTCCAACTCCTGCAGAATTATT
26561 I S CCCGGCTTCCGTCGGGCCCA
26561 P G S ATGACGTGGCAGACCGCGCCCGCGY
26561 P A S CGCGCCGAGGTGCGCCCGCGY
26561 T G A GCTTCCGTCGGGCCCCGCGCCCGCGCTGCATGCTGG
26561 T A A GCTTCCGTCGGGCCCTGCGCCCGCGCTGCATGCTGG
CCTGTGGGTCGGCCTCACCCCGGCCTCCGACCTGAAGATCCCAGCATGCAGCGCGGGCGC[GA]GGGCCCGACGGA
26561 IS [GA] AGCCGGGAGCCGGCCGGAAGCAGTTCCTGCGCTCTGGCTTCTGGGTCC
26590 I A GGGGGATTGAGATTTTTTTCCCATATCATTCTTTAAAAATTGCAT
26590 P A A CGCGCCGAGGATGTGAGTGTGAGCACTY
26590 P G A ATGACGTGGCAGACGTGTGAGTGTGAGCACY
26590 T A A ACAGAGTGCTCACACTCACATTGCAATTTTTAAAGAATGATATGGGAAAAAAATCTCAATCCCCCTT
26590 T G A ACAGAGTGCTCACACTCACACTGCAATTTTTAAAGAATGATATGGGAAAAAAATCTCAATCCCCCTT
ATGATCGAATACATAAGGGGGATTGAGATTTTTTTCCCATATCATTCTTTAAAAATTGCA[AG]TGTGAGTGTGAGCACT
26590 IS [AG] CTGTAAGCTTATCTCGTTTATCATTGCCAGCTTGCATTCACAAG
36398 I S CTCCAGCATGGGTCCCTGCCAGAAAGAA
36398 P A S CGCGCCGAGGTGGGCTGCCTCTGY
36398 P G S ATGACGTGGCAGACCGGGCTGCCTCTGY
36398 T A S TCCCCAGAGGCAGCCCATCTTTCTGGCAGGGACCCATGCTGGAGAT
36398 T G S TCCCCAGAGGCAGCCCGTCTTTCTGGCAGGGACCCATGCTGGAGAT
ACCTATCTCTCTCCCCATTCTGGCATACAAGGCAGCAGTCAGGGTCCCCAGAGGCAGCCC[AG]TCTTTCTGGCAGGG
36398 IS [AG] ACCCATGCTGGAGATCTGGCCAGCTGAAAGGCCCCAAAGGAGCTCG
36857 I A GAGAGGCCTTCCCTAAAAACCCTTGGGTCAA
36857 P C A ATGACGTGGCAGACCGCTGAGCCTCTGTY
36857 P T A CGCGCCGAGGTGCTGAGCCTCTGTCY
36857 T C A CCAAGACAGAGGCTCAGCGTGACCCAAGGGTTTTTAGGGAAGGCCTCTCCT
36857 T T A CCAAGACAGAGGCTCAGCATGACCCAAGGGTTTTTAGGGAAGGCCTCTCCT
CTGTAGCTCCTAGAGCATCCAGGGGCAGAGGAGAGGCCTTCCCTAAAAACCCTTGGGTCA[CT]GCTGAGCCTCTGTC
36857 IS [CT] TTGGCTGCATGGTGCAGTTGCTTGCAAAATTAATACTGTATCTCAT
40403 I A GCATCCGCCTTTACTTTAAAGTATCCAAGGACATTCCTATTTGGTAGT
40403 P A A CGCGCCGAGGAAACACATCCAGAGACTCY
40403 P G A ATGACGTGGCAGACGAACACATCCAGAGACTCY
40403 T A A CTTGGAGTCTCTGGATGTGTTTCTACCAAATAGGAATGTCCTTGGATACTTTAAAGTAAAGGCGGATGCCT
40403 T G A CTTGGAGTCTCTGGATGTGTTCCTACCAAATAGGAATGTCCTTGGATACTTTAAAGTAAAGGCGGATGCCT
CCCACAAGGAGAGGCATCCGCCTTTACTTTAAAGTATCCAAGGACATTCCTATTTGGTAG[AG]AACACATCCAGAGACT
40403 IS [AG] CCAAGCTCAAATCCTCCAGGATAATCTTGGCCTTACACATGGAT
40520 I A CGAGGACTGCTGAATTCCTCAGTTTTGCTTTCATCCATTTTA
40520 P C A ATGACGTGGCAGACCCCCACACAAACCATGY
40520 P T A CGCGCCGAGGTCCCCACACAAACCATGY
40520 T C A AGGCCATGGTTTGTGTGGGGAAAATGGATGAAAGCAAAACTGAGGAATTCAGCAGTCCTCGAG
40520 T T A AGGCCATGGTTTGTGTGGGAAAAATGGATGAAAGCAAAACTGAGGAATTCAGCAGTCCTCGAG
AAGGTGTGAGTCGAGGCCTCGAGGACTGCTGAATTCCTCAGTTTTGCTTTCATCCATTTT[CT]CCCACACAAACCATG
40520 IS [CT] GCCTTTCCCTGCTTGCTATGGCTGAGTCATAGGTGGAGCTACTTG
41696 I S GTCTTTTTTTTTTCTGGAGTCATTTCTTTCAGTCTCTAAGTATTGTAGAAAT
41696 P G S CGCGCCGAGGCTGGCATAGATGGAGGAY
41696 P C S ATGACGTGGCAGACGTGGCATAGATGGAGGAY
41696 T G S TTTTTCCTCCATCTATGCCAGTTTCTACAATACTTAGAGACTGAAAGAAATGACTCCAGAAAAAAAAAAGACCA
41696 T C S TTTTTCCTCCATCTATGCCACTTTCTACAATACTTAGAGACTGAAAGAAATGACTCCAGAAAAAAAAAAGACCA
CCAGTGTTTGGAAACCATCTTGGTTTTCTTTCACTTTCGATTTTTCCTCCATCTATGCCA[GC]TTTCTACAATACTTAGA
41696 IS [GC] GACTGAAAGAAATGACTCCAGAAAAAAAAAAGACCAAGATTTG
41793 I A GTGCCTTTTTCTCCTGATTCAGCTGTCACCATTCAAGC
41793 P T A CGCGCCGAGGTGAAATAGGGTGAATCAGAAAY
41793 P G A ATGACGTGGCAGACGGAAATAGGGTGAATCAGAAAY

FIGURE 129D

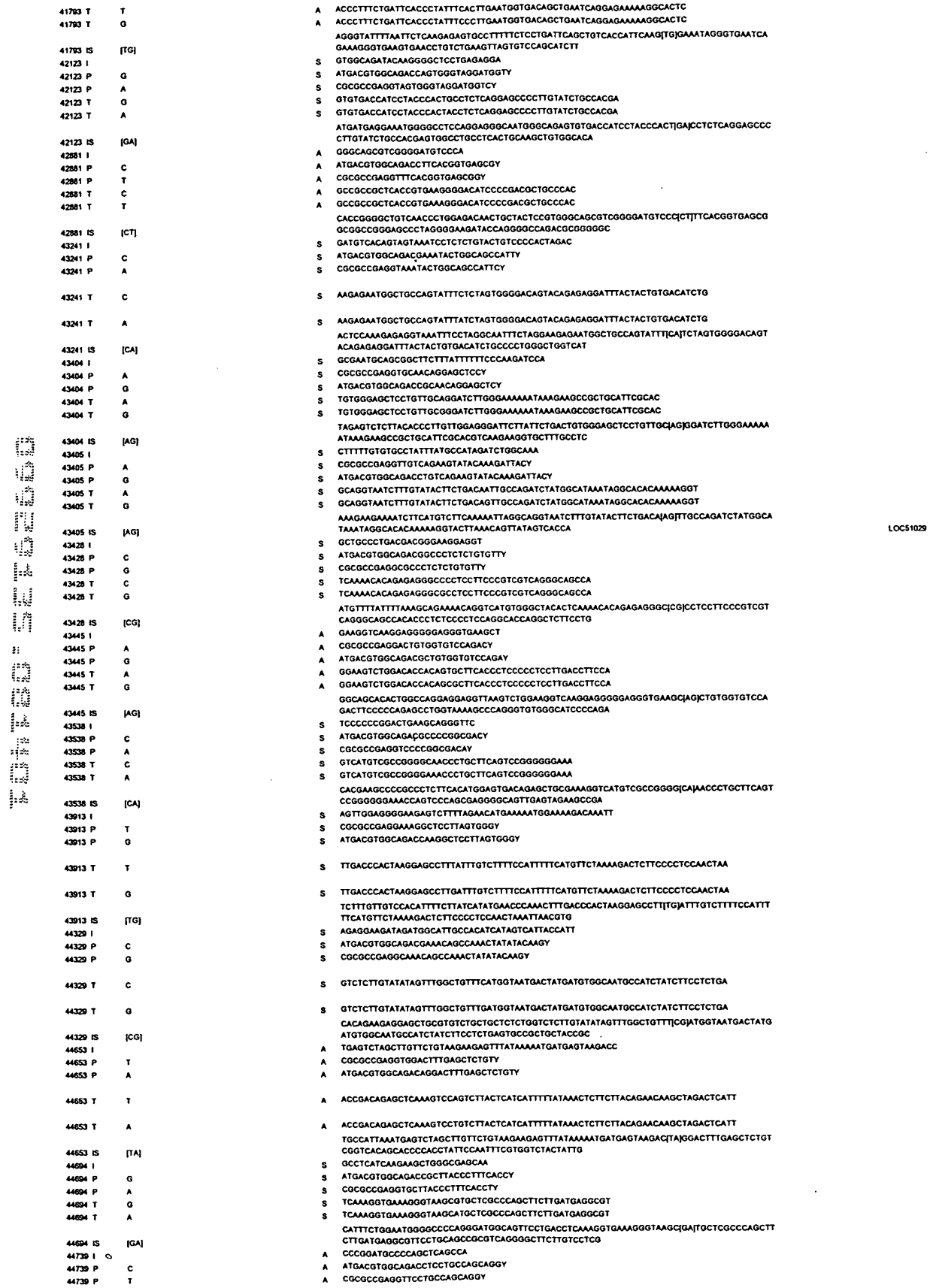

41793 T T A ACCCTTTCTGATTCACCCTATTTCACTTGAATGGTGACAGCTGAATCAGGAGAAAAAGGCACTC
41793 T G A ACCCTTTCTGATTCACCCTATTTCCCTTGAATGGTGACAGCTGAATCAGGAGAAAAAGGCACTC
AGGGTATTTTAATTCTCAAGAGAGTGCCTTTTTCTCCTGATTCAGCTGTCACCATTCAAG[TG]GAAATAGGGTGAATCA
41793 IS [TG] GAAAGGGTGAAGTGAACCTGTCTGAAGTTAGTGTCCAGCATCTT
42123 I S GTGGCAGATACAAGGGGCTCCTGAGAGGA
42123 P G S ATGACGTGGCAGACCAGTGGGTAGGATGGTY
42123 P A S CGCGCCGAGGTAGTGGGTAGGATGGTCY
42123 T G S GTGTGACCATCCTACCCACTGCCTCTCAGGAGCCCCTTGTATCTGCCACGA
42123 T A S GTGTGACCATCCTACCCACTACCTCTCAGGAGCCCCTTGTATCTGCCACGA
ATGATGAGGAAATGGGGCCTCCAGGAGGGCAATGGGCAGAGTGTGACCATCCTACCCACT[GA]CCTCTCAGGAGCCC
42123 IS [GA] CTTGTATCTGCCACGAGTGGCCTGCCTCACTGCAAGCTGTGGCACA
42881 I A GGGCAGCGTCGGGGATGTCCCA
42881 P C A ATGACGTGGCAGACCTTCACGGTGAGCGY
42881 P T A CGCGCCGAGGTTTCACGGTGAGCGGY
42881 T C A GCCGCCGCTCACCGTGAAGGGGACATCCCCGACGCTGCCCAC
42881 T T A GCCGCCGCTCACCGTGAAAGGGACATCCCCGACGCTGCCCAC
CACCGGGGCTGTCAACCCTGGAGACAACTGCTACTCCGTGGGCAGCGTCGGGGATGTCCC[CT]TTCACGGTGAGCG
42881 IS [CT] GCGGCCGGGAGCCCTAGGGGAAGATACCAGGGGCCAGACGCGGGGGC
43241 I S GATGTCACAGTAGTAAATCCTCTCTGTACTGTCCCCACTAGAC
43241 P C S ATGACGTGGCAGACGAAATACTGGCAGCCATTY
43241 P A S CGCGCCGAGGTAAATACTGGCAGCCATTCY
43241 T C S AAGAGAATGGCTGCCAGTATTTCTCTAGTGGGGACAGTACAGAGAGGATTTACTACTGTGACATCTG
43241 T A S AAGAGAATGGCTGCCAGTATTTATCTAGTGGGGACAGTACAGAGAGGATTTACTACTGTGACATCTG
ACTCCAAAGAGAGGTAAATTTCCTAGGCAATTTCTAGGAAGAGAATGGCTGCCAGTATTT[CA]TCTAGTGGGGACAGT
43241 IS [CA] ACAGAGAGGATTTACTACTGTGACATCTGCCCCTGGGCTGGTCAT
43404 I S GCGAATGCAGCGGCTTCTTTATTTTTTCCCAAGATCCA
43404 P A S CGCGCCGAGGTGCAACAGGAGCTCCY
43404 P G S ATGACGTGGCAGACCGCAACAGGAGCTCY
43404 T A S TGTGGGAGCTCCTGTTGCAGGATCTTGGGAAAAAATAAAGAAGCCGCTGCATTCGCAC
43404 T G S TGTGGGAGCTCCTGTTGCGGGATCTTGGGAAAAAATAAAGAAGCCGCTGCATTCGCAC
TAGAGTCTCTTACACCCTTGTTGGAGGGATTCTTATTCTGACTGTGGGAGCTCCTGTTGC[AG]GGATCTTGGGAAAAA
43404 IS [AG] ATAAAGAAGCCGCTGCATTCGCACGTCAAGAAGGTGCTTTGCCTC
43405 I S CTTTTTGTGTGCCTATTTATGCCATAGATCTGGCAAA
43405 P A S CGCGCCGAGGTTGTCAGAAGTATACAAAGATTACY
43405 P G S ATGACGTGGCAGACCTGTCAGAAGTATACAAAGATTACY
43405 T A S GCAGGTAATCTTTGTATACTTCTGACAATTGCCAGATCTATGGCATAAATAGGCACACAAAAAGGT
43405 T G S GCAGGTAATCTTTGTATACTTCTGACAGTTGCCAGATCTATGGCATAAATAGGCACACAAAAAGGT
AAAGAAGAAAATCTTCATGTCTTCAAAAATTAGGCAGGTAATCTTTGTATACTTCTGACA[AG]TTGCCAGATCTATGGCA
43405 IS [AG] TAAATAGGCACACAAAAAGGTACTTAAACAGTTATAGTCACCA LOC51029
43428 I S GCTGCCCTGACGACGGGAAGGAGGT
43428 P C S ATGACGTGGCAGACGGCCCTCTCTGTGTTY
43428 P G S CGCGCCGAGGCGCCCTCTCTGTGTTY
43428 T C S TCAAAACACAGAGAGGGCCCCTCCTTCCCGTCGTCAGGGCAGCCA
43428 T G S TCAAAACACAGAGAGGGCGCCTCCTTCCCGTCGTCAGGGCAGCCA
ATGTTTTATTTTAAAGCAGAAAACAGGTCATGTGGGCTACACTCAAAACACAGAGAGGGC[CG]CCTCCTTCCCGTCGT
43428 IS [CG] CAGGGCAGCCACACCCTCTCCCCTCCAGGCACCAGGCTCTTCCTG
43445 I A GAAGGTCAAGGAGGGGGAGGGTGAAGCT
43445 P A A CGCGCCGAGGACTGTGGTGTCCAGACY
43445 P G A ATGACGTGGCAGACGCTGTGGTGTCCAGAY
43445 T A A GGAAGTCTGGACACCACAGTGCTTCACCCTCCCCCTCCTTGACCTTCCA
43445 T G A GGAAGTCTGGACACCACAGCGCTTCACCCTCCCCCTCCTTGACCTTCCA
GGCAGCACACTGGCCAGGAGGAGGTTAAGTCTGGAAGGTCAAGGAGGGGGAGGGTGAAGC[AG]CTGTGGTGTCCA
43445 IS [AG] GACTTCCCCCAGAGCCTGGTAAAAGCCCAGGGTGTGGGCATCCCCAGA
43538 I S TCCCCCCGGACTGAAGCAGGGTTC
43538 P C S ATGACGTGGCAGACGCCCCGGCGACY
43538 P A S CGCGCCGAGGTCCCCGGCGACAY
43538 T C S GTCATGTCGCCGGGGCAACCCTGCTTCAGTCCGGGGGGAAA
43538 T A S GTCATGTCGCCGGGGAAACCCTGCTTCAGTCCGGGGGGAAA
CACGAAGCCCCGCCCTCTTCACATGGAGTGACAGAGCTGCGAAAGGTCATGTCGCCGGGG[CA]AACCCTGCTTCAGT
43538 IS [CA] CCGGGGGGAAACCAGTCCCAGCGAGGGGCAGTTGAGTAGAAGCCGA
43913 I S AGTTGGAGGGGAAGAGTCTTTTAGAACATGAAAAATGGAAAAGACAAATT
43913 P T S CGCGCCGAGGAAAGGCTCCTTAGTGGGY
43913 P G S ATGACGTGGCAGACCAAGGCTCCTTAGTGGGY
43913 T T S TTGACCCACTAAGGAGCCTTTATTTGTCTTTTCCATTTTTCATGTTCTAAAAGACTCTTCCCCTCCAACTAA
43913 T G S TTGACCCACTAAGGAGCCTTGATTTGTCTTTTCCATTTTTCATGTTCTAAAAGACTCTTCCCCTCCAACTAA
TCTTTGTTGTCCACATTTTCTTATCATATGAACCCAAACTTTGACCCACTAAGGAGCCTT[TG]ATTTGTCTTTTCCATTT
43913 IS [TG] TTCATGTTCTAAAAGACTCTTCCCCTCCAACTAAATTAACGTG
44329 I S AGAGGAAGATAGATGGCATTGCCACATCATAGTCATTACCATT
44329 P C S ATGACGTGGCAGACGAAACAGCCAAACTATATACAAGY
44329 P G S CGCGCCGAGGCAAACAGCCAAACTATATACAAGY
44329 T C S GTCTCTTGTATATAGTTTGGCTGTTTCATGGTAATGACTATGATGTGGCAATGCCATCTATCTTCCTCTGA
44329 T G S GTCTCTTGTATATAGTTTGGCTGTTTGATGGTAATGACTATGATGTGGCAATGCCATCTATCTTCCTCTGA
CACAGAAGAGGAGCTGCGTGTCTGCTGCTCTCTGGTCTCTTGTATATAGTTTGGCTGTTT[CG]ATGGTAATGACTATG
44329 IS [CG] ATGTGGCAATGCCATCTATCTTCCTCTGAGTGCCGCTGCTACCGC
44653 I A TGAGTCTAGCTTGTTCTGTAAGAAGAGTTTATAAAAATGATGAGTAAGACC
44653 P T A CGCGCCGAGGTGGACTTTGAGCTCTGTY
44653 P A A ATGACGTGGCAGACAGGACTTTGAGCTCTGTY
44653 T T A ACCGACAGAGCTCAAAGTCCAGTCTTACTCATCATTTTTATAAACTCTTCTTACAGAACAAGCTAGACTCATT
44653 T A A ACCGACAGAGCTCAAAGTCCTGTCTTACTCATCATTTTTATAAACTCTTCTTACAGAACAAGCTAGACTCATT
TGCCATTAAATGAGTCTAGCTTGTTCTGTAAGAAGAGTTTATAAAAATGATGAGTAAGAC[TA]GGACTTTGAGCTCTGT
44653 IS [TA] CGGTCACAGCACCCCACCTATTCCAATTTCGTGGTCTACTATTG
44694 I S GCCTCATCAAGAAGCTGGGCGAGCAA
44694 P G S ATGACGTGGCAGACCGCTTACCCTTTCACCY
44694 P A S CGCGCCGAGGTGCTTACCCTTTCACCTY
44694 T G S TCAAAGGTGAAAGGGTAAGCGTGCTCGCCCAGCTTCTTGATGAGGCGT
44694 T A S TCAAAGGTGAAAGGGTAAGCATGCTCGCCCAGCTTCTTGATGAGGCGT
CATTTCTGGAATGGGGCCCCAGGGATGGCAGTTCCTGACCTCAAAGGTGAAAGGGTAAGC[GA]TGCTCGCCCAGCTT
44694 IS [GA] CTTGATGAGGCGTTCCTGCAGCCGCGTCAGGGGCTTCTTGTCCTCG
44739 I A CCCGGATGCCCCAGCTCAGCCA
44739 P C A ATGACGTGGCAGACCTCCTGCCAGCAGGY
44739 P T A CGCGCCGAGGTTCCTGCCAGCAGGY

FIGURE 129D

44739 T	C	A	TCCCCCTGCTGGCAGGAGGGCTGAGCTGGGGCATCCGGGTT		
44739 T	T	A	TCCCCCTGCTGGCAGGAAGGCTGAGCTGGGGCATCCGGGTT		
44739 IS	[CT]		GGCTTGATTTTTCCAGTTGAGCCCCATCTGCTGTGGGAACCCGGATGCCCCAGCTCAGCC[CT]TCCTGCCAGCAGGG GGAGGGAGCGTCGGCTGCGGAGGGAGCTGGGATGCATGCGTGTGGG		
44814 I		A	GCTGTAAACATGAAAGTGAGAAGCAGCAAAGAACGATCAACAAATTT		
44814 P	A	A	CGCGCCGAGGAACACCCTTTTCATATTTTTTGTY		
44814 P	G	A	ATGACGTGGCAGACGACACCCTTTTCATATTTTTTGTY		
44814 T	A	A	TGTCACAAAAAATATGAAAAGGGTGTTAATTTGTTGATCGTTCTTTGCTGCTTCTCACTTTCATGTTTACAGCAA		
44814 T	G	A	TGTCACAAAAAATATGAAAAGGGTGTCAATTTGTTGATCGTTCTTTGCTGCTTCTCACTTTCATGTTTACAGCAA		
44814 IS	[AG]		TTGCTCTTCTCCTTGCTGTAAACATGAAAGTGAGAAGCAGCAAAGAACGATCAACAAATT[AG]ACACCCTTTTCATATTT TTTGTGACAGCTACCTGGAACGGGCAGGAAAGAAAAATGCAGA		
45838 I		S	AGACTCAATCTCATCTGTGTTCTCGGCCCTGTTATGAT		
45838 P	G	S	CGCGCCGAGGCACTCTTTGTACCACCCY		
45838 P	C	S	ATGACGTGGCAGACGACTCTTTGTACCACCCAY		
45838 T	G	S	CCCATGGGTGGTACAAAGAGTGTCATAACAGGGCCGAGAACACAGATGAGATTGAGTCTTG		
45838 T	C	S	CCCATGGGTGGTACAAAGAGTCTCATAACAGGGCCGAGAACACAGATGAGATTGAGTCTTG		
45838 IS	[GC]		ATCACAGAGGATTATGACACCCATGCGTATTGAATAAATCCCATGGGTGGTACAAAGAGT[GC]TCATAACAGGGCCGA GAACACAGATGAGATTGAGTCTTGTATGAACACACAGCCAAAAGT		
46213 I		S	GCTGGCTGAGTATGTATGCTGACCTGTGGATGTAGC		
46213 P	A	S	CGCGCCGAGGTCATATGGTGCATCTCTTGY		
46213 P	T	S	ATGACGTGGCAGACACATATGGTGCATCTCTTGY		
46213 T	A	S	CCTTCAAGAGATGCACCATATGACTACATCCACAGGTCAGCATACATACTCAGCCAGCAT		
46213 T	T	S	CCTTCAAGAGATGCACCATATGTCTACATCCACAGGTCAGCATACATACTCAGCCAGCAT		
46213 IS	[AT]		AATCACCTCAGGGCATACTACAATCAACCAAACATCAGCCTTCAAGAGATGCACCATATG[AT]CTACATCCACAGGTCA GCATACATACTCAGCCAGCATAAACCCGGCGGGGACTTCTACCA		
46235 I		A	AGGAGTCACGTGAACACACAACTCTCCTATATTCCTCACT		
46235 P	G	A	ATGACGTGGCAGACGAACCTCAGGATTGAGCY		
46235 P	A	A	CGCGCCGAGGAAACCTCAGGATTGAGCAY		
46235 T	G	A	ACCTTGCTCAATCCTGAGGTTCGTGAGGAATATAGGAGAGTTGTGTGTTCACGTGACTCCTGA		
46235 T	A	A	ACCTTGCTCAATCCTGAGGTTTGTGAGGAATATAGGAGAGTTGTGTGTTCACGTGACTCCTGA		
46235 IS	[GA]		ATAGTACTGCTCTTTGTTTTCAGGAGTCACGTGAACACACAACTCTCCTATATTCCTCAC[GA]AACCTCAGGATTGAGC AAGGTCTTTGTAATTTTTTTTGGTTCACTTTATTGACCTGGGAGC		FLJ21415
46414 I		A	GCGCTCTATTCTTCTCACCTCTCAGGAACTGACTTTTATTTTTTCTT		
46414 P	A	A	CGCGCCGAGGATCAACACCCAGTAATCTCY		
46414 P	G	A	ATGACGTGGCAGACGTCAACACCCAGTAATCTCY		
46414 T	A	A	TAGGGAGATTACTGGGTGTTGATAGAAAAAATAAAAGTCAGTTCCTGAGAGGTGAAGAAGAATAGAGCGCCT		
46414 T	G	A	TAGGGAGATTACTGGGTGTTGACAGAAAAAATAAAAGTCAGTTCCTGAGAGGTGAAGAAGAATAGAGCGCCT		
46414 IS	[AG]		TGACTGCATTGAGGCGCTCTATTCTTCTTCACCTCTCAGGAACTGACTTTTATTTTTTCT[AG]TCAACACCCAGTAATCT CCCTAACTAGTTTTAACCCTTATTCCTCCCTCATACCTAGCCA		MYPT2
46428 I		A	CCAGAGTGGAGTCTCAGCCCCACCCT		
46428 P	G	A	ATGACGTGGCAGACGTCCATCCCCGCCY		
46428 P	A	A	CGCGCCGAGGATCCATCCCCGCCY		
46428 T	G	A	GGGTGGCGGGGATGGACGGGTGGGGCTGAGACTCCACTCTGGCC		
46428 T	A	A	GGGTGGCGGGGATGGATGGGTGGGGCTGAGACTCCACTCTGGCC		
46428 IS	[GA]		CAAGCAGCCAATGGCAGGAGCGTCAGGCCAGGTGGCCAGAGTGGAGTCTCAGCCCCACCC[GA]TCCATCCCCGCCA CCCCTGGGCTTCCGCGATGAGCATGGGGTGGCCCTCCTGGCCTACAC		ART1
46617 I		A	CCAGAAACAAATGGAGGAATATCCTGAGAGCTCCCAAA		
46617 P	T	A	CGCGCCGAGGTTCAGGCAAGAAGAGATCAY		
46617 P	C	A	ATGACGTGGCAGACCTCAGGCAAGAAGAGATCY		
46617 T	T	A	GGATTGATCTCTTCTTGCCTGAATTGGGAGCTCTCAGGATATTCCTCCATTTGTTTCTGGAG		
46617 T	C	A	GGATTGATCTCTTCTTGCCTGAGTTGGGAGCTCTCAGGATATTCCTCCATTTGTTTCTGGAG		
46617 IS	[TC]		CCCAGTCATTTTCCCCAAGGCCTCCAGAAACAAATGGAGGAATATCCTGAGAGCTCCCAA[TC]TCAGGCAAGAAGAGA TCAATCCAGCCCGTCCTCCACATGAGCACAAGGCAGAGCTCGTTC		
46693 I		S	CCTTTTTAGTGAAAGTTGGAGCGATGATAAACAGCTA		
46693 P	G	S	ATGACGTGGCAGACCCAGCTGTAAAAATGAAAGGY		
46693 P	A	S	CGCGCCGAGGTCAGCTGTAAAAATGAAAGGY		
46693 T	G	S	TCCGCCTTTCATTTTTACAGCTGGAGCTGTTTATCATCGCTCCAACTTTCACTAAAAAGGAA		
46693 T	A	S	TCCGCCTTTCATTTTTACAGCTGAAGCTGTTTATCATCGCTCCAACTTTCACTAAAAAGGAA		
46693 IS	[GA]		CTCAGCATTTTTCTGTAATAATCACCTCAGCTTCACCTCCGCCTTTCATTTTTACAGCTG[GA]AGCTGTTTATCATCGCT CCAACTTTCACTAAAAAGGAAAAACTATCACTTAAACAAAGCC		
49263 I		S	TGCGCCGCACCAAGGAGGAGATCAAA		
49263 P	G	S	ATGACGTGGCAGACCGAGCTGAACCGCAY		
49263 P	A	S	CGCGCCGAGGTGAGCTGAACCGCAY		
49263 T	G	S	ATCATGCGGTTCAGCTCGTTGATCTCCTCCTTGGTGCGGCGCAGG		
49263 T	A	S	ATCATGCGGTTCAGCTCATTGATCTCCTCCTTGGTGCGGCGCAGG		
49263 IS	[GA]		TACCTGGCACTTGGCATTCTCCACCTCGGCTGTCAGCCTCTGGATCATGCGGTTCAGCTC[GA]TTGATCTCCTCCTTG GTGCGGCGCAGGGTCTCCCCGTGCCTGATCACTGTGGCCTTCATC		
49277 I		S	GGTCAACTGGCTGCCTCTGCCTCCTCA		
49277 P	G	S	ATGACGTGGCAGACCGCAGCAGGCCTY		
49277 P	A	S	CGCGCCGAGGTGCAGCAGGCCTCY		
49277 T	G	S	GGCTGAGGCCTGCTGCGGAGGAGGCAGAGGCAGCCAGTTGACCCT		
49277 T	A	S	GGCTGAGGCCTGCTGCAGAGGAGGCAGAGGCAGCCAGTTGACCCT		
49277 IS	[GA]		GGCAGCAGCCCAGATCACATCTGAATCAGAGACAGGGAAGAACAGGCTGAGGCCTGCTGC[GA]GAGGAGGCAGAGG CAGCCAGTTGACCCTGGTGCAGCCCCCACCCTACCAGTGCCCACACC		
49427 I		S	GACAGGAGTCCCTGCTGTCCAGGGAAA		
49427 P	A	S	CGCGCCGAGGTAGCATACTAGGAAAGGGCY		
49427 P	G	S	ATGACGTGGCAGACCAGCATACTAGGAAAGGGY		
49427 T	A	S	AAGTGCCCTTTCCTAGTATGCTATTCCCTGGACAGCAGGGACTCCTGTCCA		
49427 T	G	S	AAGTGCCCTTTCCTAGTATGCTGTTCCCTGGACAGCAGGGACTCCTGTCCA		
49427 IS	[AG]		CAGTGAGCCTCTTGGCCCCACACTGCTTCTGCCCCTGGAAGTGCCCTTTCCTAGTATGCT[AG]TTCCCTGGACAGCA GGGACTCCTGTCCAAAAGGAGGAGGGGACGGGAAAAGCCAGCTTAT		
49431 I		S	AGTGACCAGAAGGGGCAGGGAGCAGA		
49431 P	A	S	CGCGCCGAGGTGGACAGTCCACCCY		
49431 P	G	S	ATGACGTGGCAGACCGGACAGTCCACCCY		
49431 T	A	S	ACCGGGGTGGACTGTCCACTGCTCCCTGCCCCTTCTGGTCACTTC		
49431 T	G	S	ACCGGGGTGGACTGTCCGCTGCTCCCTGCCCCTTCTGGTCACTTC		
49431 IS	[AG]		CCGGGGGCGAGGTACAGTGACAGGGTTCCCCAGCATGTGAGGAACCGGGGTGGACTGTCC[AG]CTGCTCCCTGCCC CTTCTGGTCACTTCTTCCTCCCCACTCCCCAACACAGGGTGTCCATG		
49437 I		A	GAGAAAAAAGAAGTCTGACATAGACCATTACAGATCCACATT		
49437 P	A	A	CGCGCCGAGGACAATAAATCAGCCCATTACAY		
49437 P	G	A	ATGACGTGGCAGACGCAATAAATCAGCCCATTACY		
49437 T	A	A	CTTGTGTAATGGGCTGATTTATTGTATGTGGATCTGTAATGGTCTATGTCAGACTTCTTTTTTCTCTT		
49437 T	G	A	CTTGTGTAATGGGCTGATTTATTGCATGTGGATCTGTAATGGTCTATGTCAGACTTCTTTTTTCTCTT		

FIGURE 129D

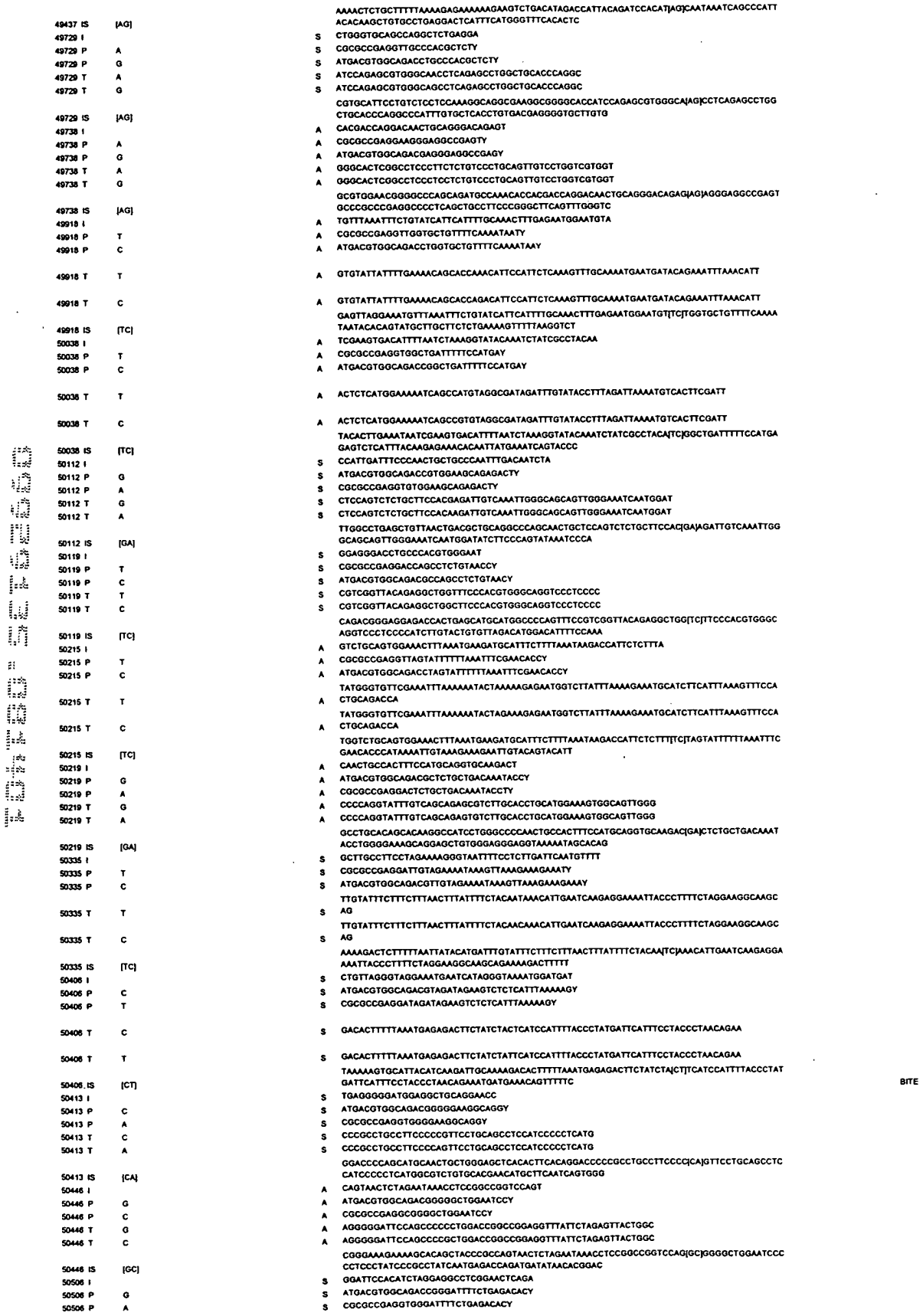

AAAACTCTGCTTTTTAAAAGAGAAAAAAGAAGTCTGACATAGACCATTACAGATCCACAT[AG]CAATAAATCAGCCCATT
49437 IS [AG] ACACAAGCTGTGCCTGAGGACTCATTTCATGGGTTTCACACTC
49729 I S CTGGGTGCAGCCAGGCTCTGAGGA
49729 P A S CGCGCCGAGGTTGCCCACGCTCTY
49729 P G S ATGACGTGGCAGACCTGCCCACGCTCTY
49729 T A S ATCCAGAGCGTGGGCAACCTCAGAGCCTGGCTGCACCCAGGC
49729 T G S ATCCAGAGCGTGGGCAGCCTCAGAGCCTGGCTGCACCCAGGC
CGTGCATTCCTGTCTCCTCCAAAGGCAGGCGAAGGCGGGGCACCATCCAGAGCGTGGGCA[AG]CCTCAGAGCCTGG
49729 IS [AG] CTGCACCCAGGCCCATTTGTGCTCACCTGTGACGAGGGGTGCTTGTG
49738 I A CACGACCAGGACAACTGCAGGGACAGAGT
49738 P A A CGCGCCGAGGAAGGGAGGCCGAGTY
49738 P G A ATGACGTGGCAGACGAGGGAGGCCGAGY
49738 T A A GGGCACTCGGCCTCCCTTCTCTGTCCCTGCAGTTGTCCTGGTCGTGGT
49738 T G A GGGCACTCGGCCTCCCTCCTCTGTCCCTGCAGTTGTCCTGGTCGTGGT
GCGTGGAACGGGGCCCAGCAGATGCCAAACACCACGACCAGGACAACTGCAGGGACAGAG[AG]AGGGAGGCCGAGT
49738 IS [AG] GCCCGCCCGAGGCCCCTCAGCTGCCTTCCCGGGCTTCAGTTTGGGTC
49918 I A TGTTTAAATTTCTGTATCATTCATTTTGCAAACTTTGAGAATGGAATGTA
49918 P T A CGCGCCGAGGTTGGTGCTGTTTTCAAAATAATY
49918 P C A ATGACGTGGCAGACCTGGTGCTGTTTTCAAAATAAY
49918 T T A GTGTATTATTTTGAAAACAGCACCAAACATTCCATTCTCAAAGTTTGCAAAATGAATGATACAGAAATTTAAACATT
49918 T C A GTGTATTATTTTGAAAACAGCACCAGACATTCCATTCTCAAAGTTTGCAAAATGAATGATACAGAAATTTAAACATT
GAGTTAGGAAATGTTTAAATTTCTGTATCATTCATTTTGCAAACTTTGAGAATGGAATGT[TC]TGGTGCTGTTTTCAAAA
49918 IS [TC] TAATACACAGTATGCTTGCTTCTCTGAAAAGTTTTTAAGGTCT
50038 I A TCGAAGTGACATTTTAATCTAAAGGTATACAAATCTATCGCCTACAA
50038 P T A CGCGCCGAGGTGGCTGATTTTTCCATGAY
50038 P C A ATGACGTGGCAGACCGGCTGATTTTTCCATGAY
50038 T T A ACTCTCATGGAAAAATCAGCCATGTAGGCGATAGATTTGTATACCTTTAGATTAAAATGTCACTTCGATT
50038 T C A ACTCTCATGGAAAAATCAGCCGTGTAGGCGATAGATTTGTATACCTTTAGATTAAAATGTCACTTCGATT
TACACTTGAAATAATCGAAGTGACATTTTAATCTAAAGGTATACAAATCTATCGCCTACA[TC]GGCTGATTTTTCCATGA
50038 IS [TC] GAGTCTCATTTACAAGAGAAACACAATTATGAAATCAGTACCC
50112 I S CCATTGATTTCCCAACTGCTGCCCAATTTGACAATCTA
50112 P G S ATGACGTGGCAGACCGTGGAAGCAGAGACTY
50112 P A S CGCGCCGAGGTGTGGAAGCAGAGACTY
50112 T G S CTCCAGTCTCTGCTTCCACGAGATTGTCAAATTGGGCAGCAGTTGGGAAATCAATGGAT
50112 T A S CTCCAGTCTCTGCTTCCACAAGATTGTCAAATTGGGCAGCAGTTGGGAAATCAATGGAT
TTGGCCTGAGCTGTTAACTGACGCTGCAGGCCCAGCAACTGCTCCAGTCTCTGCTTCCAC[GA]AGATTGTCAAATTGG
50112 IS [GA] GCAGCAGTTGGGAAATCAATGGATATCTTCCCAGTATAAATCCCA
50119 I S GGAGGGACCTGCCCACGTGGGAAT
50119 P T S CGCGCCGAGGACCAGCCTCTGTAACCY
50119 P C S ATGACGTGGCAGACGCCAGCCTCTGTAACY
50119 T T S CGTCGGTTACAGAGGCTGGTTTCCCACGTGGGCAGGTCCCTCCCC
50119 T C S CGTCGGTTACAGAGGCTGGCTTCCCACGTGGGCAGGTCCCTCCCC
CAGACGGGAGGAGACCACTGAGCATGCATGGCCCCAGTTTCCGTCGGTTACAGAGGCTGG[TC]TTCCCACGTGGGC
50119 IS [TC] AGGTCCCTCCCCATCTTGTACTGTGTTAGACATGGACATTTTCCAAA
50215 I A GTCTGCAGTGGAAACTTTAAATGAAGATGCATTTCTTTTAAATAAGACCATTCTCTTTA
50215 P T A CGCGCCGAGGTTAGTATTTTTTAAATTTCGAACACCY
50215 P C A ATGACGTGGCAGACCTAGTATTTTTTAAATTTCGAACACCY
TATGGGTGTTCGAAATTTAAAAAATACTAAAAAGAGAATGGTCTTATTTAAAAGAAATGCATCTTCATTTAAAGTTTCCA
50215 T T A CTGCAGACCA
TATGGGTGTTCGAAATTTAAAAAATACTAGAAAGAGAATGGTCTTATTTAAAAGAAATGCATCTTCATTTAAAGTTTCCA
50215 T C A CTGCAGACCA
TGGTCTGCAGTGGAAACTTTAAATGAAGATGCATTTCTTTTAAATAAGACCATTCTCTTT[TC]TAGTATTTTTTAAATTTC
50215 IS [TC] GAACACCCATAAAATTGTAAAGAAAGAATTGTACAGTACATT
50219 I A CAACTGCCACTTTCCATGCAGGTGCAAGACT
50219 P G A ATGACGTGGCAGACGCTCTGCTGACAAATACCY
50219 P A A CGCGCCGAGGACTCTGCTGACAAATACCTY
50219 T G A CCCCAGGTATTTGTCAGCAGAGCGTCTTGCACCTGCATGGAAAGTGGCAGTTGGG
50219 T A A CCCCAGGTATTTGTCAGCAGAGTGTCTTGCACCTGCATGGAAAGTGGCAGTTGGG
GCCTGCACAGCACAAGGCCATCCTGGGCCCCAACTGCCACTTTCCATGCAGGTGCAAGAC[GA]CTCTGCTGACAAAT
50219 IS [GA] ACCTGGGGAAAGCAGGAGCTGTGGGAGGGAGGTAAAAATAGCACAG
50335 I S GCTTGCCTTCCTAGAAAAGGGTAATTTTCCTCTTGATTCAATGTTTT
50335 P T S CGCGCCGAGGATTGTAGAAAATAAAGTTAAAGAAAGAAATY
50335 P C S ATGACGTGGCAGACGTTGTAGAAAATAAAGTTAAAGAAAGAAAY
TTGTATTTCTTTCTTTAACTTTATTTTCTACAATAAACATTGAATCAAGAGGAAAATTACCCTTTTCTAGGAAGGCAAGC
50335 T T S AG
TTGTATTTCTTTCTTTAACTTTATTTTCTACAACAAACATTGAATCAAGAGGAAAATTACCCTTTTCTAGGAAGGCAAGC
50335 T C S AG
AAAAGACTCTTTTTAATTATACATGATTTGTATTTCTTTCTTTAACTTTATTTTCTACAA[TC]AAACATTGAATCAAGAGGA
50335 IS [TC] AAATTACCCTTTTCTAGGAAGGCAAGCAGAAAAGACTTTTT
50406 I S CTGTTAGGGTAGGAAATGAATCATAGGGTAAAATGGATGAT
50406 P C S ATGACGTGGCAGACGTAGATAGAAGTCTCTCATTTAAAAAGY
50406 P T S CGCGCCGAGGATAGATAGAAGTCTCTCATTTAAAAAGY
50406 T C S GACACTTTTTAAATGAGAGACTTCTATCTACTCATCCATTTTACCCTATGATTCATTTCCTACCCTAACAGAA
50406 T T S GACACTTTTTAAATGAGAGACTTCTATCTATTCATCCATTTTACCCTATGATTCATTTCCTACCCTAACAGAA
TAAAAAGTGCATTACATCAAGATTGCAAAAGACACTTTTTAAATGAGAGACTTCTATCTA[CT]TCATCCATTTTACCCTAT
50406 IS [CT] GATTCATTTCCTACCCTAACAGAAATGATGAAACAGTTTTTC BITE
50413 I S TGAGGGGGATGGAGGCTGCAGGAACC
50413 P C S ATGACGTGGCAGACGGGGGAAGGCAGGY
50413 P A S CGCGCCGAGGTGGGGAAGGCAGGY
50413 T C S CCCGCCTGCCTTCCCCCGTTCCTGCAGCCTCCATCCCCCTCATG
50413 T A S CCCGCCTGCCTTCCCCAGTTCCTGCAGCCTCCATCCCCCTCATG
GGACCCCAGCATGCAACTGCTGGGAGCTCACACTTCACAGGACCCCCGCCTGCCTTCCCC[CA]GTTCCTGCAGCCTC
50413 IS [CA] CATCCCCCTCATGGCGTCTGTGCACGAACATGCTTCAATCAGTGGG
50446 I A CAGTAACTCTAGAATAAACCTCCGGCCGGTCCAGT
50446 P G A ATGACGTGGCAGACGGGGGCTGGAATCCY
50446 P C A CGCGCCGAGGCGGGGCTGGAATCCY
50446 T G A AGGGGGATTCCAGCCCCCCTGGACCGGCCGGAGGTTTATTCTAGAGTTACTGGC
50446 T C A AGGGGGATTCCAGCCCCGCTGGACCGGCCGGAGGTTTATTCTAGAGTTACTGGC
CGGGAAAGAAAAGCACAGCTACCCGCCAGTAACTCTAGAATAAACCTCCGGCCGGTCCAG[GC]GGGGCTGGAATCCC
50446 IS [GC] CCTCCCTATCCCGCCTATCAATGAGACCAGATGATATAACACGGAC
50506 I S GGATTCCACATCTAGGAGGCCTCGGAACTCAGA
50506 P G S ATGACGTGGCAGACCGGGATTTTCTGAGACACY
50506 P A S CGCGCCGAGGTGGGATTTTCTGAGACACY

FIGURE 129D

50506 T	G	S	TGGTGTGTCTCAGAAAATCCCGCTGAGTTCCGAGGCCTCCTAGATGTGGAATCCTG		
50506 T	A	S	TGGTGTGTCTCAGAAAATCCCACTGAGTTCCGAGGCCTCCTAGATGTGGAATCCTG		
50506 tS	[GA]		ATAACGACCCTCAACAGCGGCGGAGAGGGAGCAGCCAGTTGGTGTGTCTCAGAAAATCCC[GA]CTGAGTTCCGAGGC CTCCTAGATGTGGAATCCTGCTGAGAGTTGTTCCCAGGTCAGAGAA		
50528 I		S	TGATCAACTATCAGCCCACACAGGACACCACTCT		
50528 P	C	S	ATGACGTGGCAGACGGATGCCAGCTGCTY		
50528 P	T	S	CGCGCCGAGGAGATGCCAGCTGCTY		
50528 T	C	S	AATGAGCAGCTGGCATCCGAGTGGTGTCCTGTGTGGGCTGATAGTTGATCACA		
50528 T	T	S	AATGAGCAGCTGGCATCTGAGTGGTGTCCTGTGTGGGCTGATAGTTGATCACA		
50528 tS	[CT]		AAAATATGCTTGGCAGAGACAGGAATGCTGTGTGCTTGTTCCAAATGAGCAGCTGGCATC[CT]GAGTGGTGTCCTGTG TGGGCTGATAGTTGATCACACATTGTGCTTTTGATTTTTGCATTT		MYOM2
51134 I		S	GACTGAGCCCCGCTAGCCAATTGCACT		
51134 P	C	S	ATGACGTGGCAGACGTAGATGTGTTTTATGTCTAGGAY		
51134 P	T	S	CGCGCCGAGGATAGATGTGTTTTATGTCTAGGAAY		
51134 T	C	S	TGGGTTCCTAGACATAAAACACATCTACGTGCAATTGGCTAGCGGGGCTCAGTCCC		
51134 T	T	S	TGGGTTCCTAGACATAAAACACATCTATGTGCAATTGGCTAGCGGGGCTCAGTCCC		
51134 tS	[CT]		TCAACATTGAAAGCAAAACTTCAAAGAGAAATATGGGTTCCTAGACATAAAACACATCTA[CT]GTGCAATTGGCTAGCG GGGCTCAGTCCCGCAGGGAAATGCCTCTATCAGGTCCCTCCATG		
51149 I		S	CAACTTGTCCCTGGAATCGGTTGTCTTGGCAA		
51149 P	A	S	CGCGCCGAGGTATTCTGGTGCCCATTTGY		
51149 P	G	S	ATGACGTGGCAGACCATTCTGGTGCCCATTTY		
51149 T	A	S	ACAGCAAATGGGCACCAGAATATGCCAAGACAACCGATTCCAGGGACAAGTTGAG		
51149 T	G	S	ACAGCAAATGGGCACCAGAATGTGCCAAGACAACCGATTCCAGGGACAAGTTGAG		
51149 tS	[AG]		CAAGTGAATAGATATACTCAACGCTGGGAAACAGGTAGCACAGCAAATGGGCACCAGAAT[AG]TGCCAAGACAACCGA TTCCAGGGACAAGTTGAGAGTTCTCTGTATAGAGAACATAAAATT		
51181 I		S	GCCCCACTATTCTCAGTAAGTACTCTTAAAAAGGTCATGAACATTTACTATCATT		
51181 P	C	S	ATGACGTGGCAGACGTTATACTGTATCGAGCATTCCY		
51181 P	T	S	CGCGCCGAGGATTATACTGTATCGAGCATTCCY		
51181 T	C	S	GGAAGGAATGCTCGATACAGTATAACATGATAGTAAATGTTCATGACCTTTTTAAGAGTACTTACTGAGAATAGTGGGG CAG		
51181 T	T	S	GGAAGGAATGCTCGATACAGTATAATATGATAGTAAATGTTCATGACCTTTTTAAGAGTACTTACTGAGAATAGTGGGG CAG		
51181 tS	[CT]		AAAGAGTGATGTTACAAAGGTCAAGGGAGTTTCCAGGAAGGAATGCTCGATACAGTATAA[CT]ATGATAGTAAATGTTC ATGACCTTTTTAAGAGTACTTACTGAGAATAGTGGGGCAGGAAG		
51185 I		A	AGTATACGTAATGAACTAGTGGATTATACTTGGCTTTAAAACTGTTTTAATTCAA		
51185 P	T	A	CGCGCCGAGGTTATTTCTATACAAAATAAGGCATTGY		
51185 P	C	A	ATGACGTGGCAGACCTATTTCTATACAAAATAAGGCATTGY		
51185 T	T	A	TTTGCAATGCCTTATTTTGTATAGAAATAATGAATTAAAACAGTTTTAAAGCCAAGTATAATCCACTAGTTCATTACGTAT ACTTA		
51185 T	C	A	TTTGCAATGCCTTATTTTGTATAGAAATAGTGAATTAAAACAGTTTTAAAGCCAAGTATAATCCACTAGTTCATTACGTA TACTTA		
51185 tS	[TC]		GACATAAGTATACGTAATGAACTAGTGGATTATACTTGGCTTTAAAACTGTTTTAATTCA[TC]TATTTCTATACAAAATAA GGCATTGCAAAGTTGAGATGAAAGTTTCTCTCTCCGTGCCTC		
51231 I		A	CTGGGGCATGAACCAGTGGAGAGAAATAGCAA		
51231 P	C	A	ATGACGTGGCAGACCAGATTACTAGAATGCTTTAGAAATCY		
51231 P	T	A	CGCGCCGAGGTAGATTACTAGAATGCTTTAGAAATCY		
51231 T	C	A	AAAGGATTTCTAAAGCATTCTAGTAATCTGTGCTATTTCTCTCCACTGGTTCATGCCCCAGCC		
51231 T	T	A	AAAGGATTTCTAAAGCATTCTAGTAATCTATGCTATTTCTCTCCACTGGTTCATGCCCCAGCC		
51231 tS	[CT]		AAGACTTCTGAGTGAGGAGGCCTGTGGGGCTGGGGCATGAACCAGTGGAGAGAAATAGCA[CT]AGATTACTAGAATG CTTTAGAAATCCTTTTCTGCTTCAGATAAGTGGCTAATTAAATTTG		
51258 I		A	CCCTAGACATCTTGCTTGGAGATCTCTGACATAACGTGTCA		
51258 P	C	A	ATGACGTGGCAGACCGGGATGATGAAGCTAAGY		
51258 P	T	A	CGCGCCGAGGTGGGATGATGAAGCTAAGY		
51258 T	C	A	GGGGCTTAGCTTCATCATCCCGGACACGTTATGTCAGAGATCTCCAAGCAAGATGTCTAGGGCC		
51258 T	T	A	GGGGCTTAGCTTCATCATCCCAGACACGTTATGTCAGAGATCTCCAAGCAAGATGTCTAGGGCC		
51258 tS	[CT]		CTGCACGGTGTTGGCTGAGGCCCTAGACATCTTGCTTGGAGATCTCTGACATAACGTGTC[CT]GGGATGATGAAGCT AAGCCCCAGTGAGACTGCCTACATGGTGTAATGGCAGGGACCGCAG		
51784 I		A	GCCTCTGGGCTCACCTCGCTGTGACA		
51784 P	C	A	ATGACGTGGCAGACCTGAAGGAGAATCTGCTGV		
51784 P	T	A	CGCGCCGAGGTTGAAGGAGAATCTGCTGAV		
51784 T	C	A	TCCTTCAGCAGATTCTCCTTCAGGTCACAGCGAGGTGAGCCCAGAGGCAG		
51784 T	T	A	TCCTTCAGCAGATTCTCCTTCAAGTCACAGCGAGGTGAGCCCAGAGGCAG		
51784 tS	[CT]		AGCCCCATGTGTGCCTGGTGCTCTGATGAGGCCCTGCCTCTGGGCTCACCTCGCTGTGAC[CT]TGAAGGAGAATCTG CTGAAGGATAACTGTGCCCCAGAATCCATCGAGTTCCCAGTGAGTG		ITGB3
51826 I		A	GGGGAGGCCCCACTTAGGCTGTTAAAAATAAAGTTGT		
51826 P	G	A	ATGACGTGGCAGACGGCATAGAACATTAATGATGACY		
51826 P	C	A	CGCGCCGAGGCGCATAGAACATTAATGATGACY		
51826 T	G	A	AGGGGTCATCATTAATGTTCTATGCCCAACTTTATTTTTAACAGCCTAAGTGGGGCCTCCCCAT		
51826 T	C	A	AGGGGTCATCATTAATGTTCTATGCGCAACTTTATTTTTAACAGCCTAAGTGGGGCCTCCCCAT		
51826 tS	[GC]		TCTTGCTTAGTGTCTCCAAGAAATGGGGAGGCCCCACTTAGGCTGTTAAAAATAAAGTTG[GC]GCATAGAACATTAAT GATGACCCCTTGGTGTTGTCATTTTGCTCCTATAACATCTGGAGT		
52037 I		S	CGGTAATGCGCCCGGAGCGACCT		
52037 P	C	S	ATGACGTGGCAGACGGGGAGCGAGCGY		
52037 P	T	S	CGCGCCGAGGAGGGAGCGAGCGAY		
52037 T	C	S	GCACTCGCTCGCTCCCCGGTCGCTCCGGGCGCATTACCGCT		
52037 T	T	S	GCACTCGCTCGCTCCCTGGTCGCTCCGGGCGCATTACCGCT		
52037 tS	[CT]		TCCATCCATCCAACCATCCATCCATTCATTCTTTCTTGACGCACTCGCTCGCTCCC[CT]GGTCGCTCCGGGCGC ATTACCGCTTCTTCTTCTGCTTGAGGGACTTCCTGCGTTTCAGGA		
52078 I		A	GAAATCCCTGCTAGCCTCTGGCCAGGTA		
52078 P	C	A	ATGACGTGGCAGACCCCTGGGTGCCCY		
52078 P	T	A	CGCGCCGAGGTCCTGGGTGCCCTY		
52078 T	C	A	TGAGAGGGCACCCAGGGACCTGGCCAGAGGCTAGCAGGGATTTCCT		
52078 T	T	A	TGAGAGGGCACCCAGGAACCTGGCCAGAGGCTAGCAGGGATTTCCT		
52078 tS	[CT]		AATTCACTGCCGTCATCTGGAGACCTGAACTAGGAAATCCCTGCTAGCCTCTGGCCAGGT[CT]CCTGGGTGCCCTCT CAGCCCTCTGGTGGTAGCTGATGGATAAGCCACATAGAACCCACCT		
52315 I		S	TGTTCAATGACAGAAATGAGCATGAGTCTGCTAATTTGTCTTGTCTTA		
52315 P	G	S	ATGACGTGGCAGACCTAACAGCCATGTCGGY		
52315 P	A	S	CGCGCCGAGGTTAACAGCCATGTCGGY		
52315 T	G	S	TATGCCGACATGGCTGTTAGAAGACAAGACAAATTAGCAGACTCATGCTCATTTCTGTCATTGAACAAT		
52315 T	A	S	TATGCCGACATGGCTGTTAAAAGACAAGACAAATTAGCAGACTCATGCTCATTTCTGTCATTGAACAAT		
52315 tS	[GA]		ATTATAACTTAATAGCTTGTGAAATATACAAACAACAAGATTATGCCGACATGGCTGTTA[GA]AAGACAAGACAAATTAG CAGACTCATGCTCATTTCTGTCATTGAACAATTCGTCTCATTC		
52492 I		S	TTTGGCACGCACTCGGTTACTGATTGATAGGCA		
52492 P	G	S	ATGACGTGGCAGACCATTCAGGAAACAAAGACCAY		
52492 P	A	S	CGCGCCGAGGTATTCAGGAAACAAAGACCACY		
52492 T	G	S	TCTTGTGGTCTTTGTTTCCTGAATGGCCTATCAATCAGTAACCGAGTGCGTGCCAAACC		
52492 T	A	S	TCTTGTGGTCTTTGTTTCCTGAATAGCCTATCAATCAGTAACCGAGTGCGTGCCAAACC		

FIGURE 129D

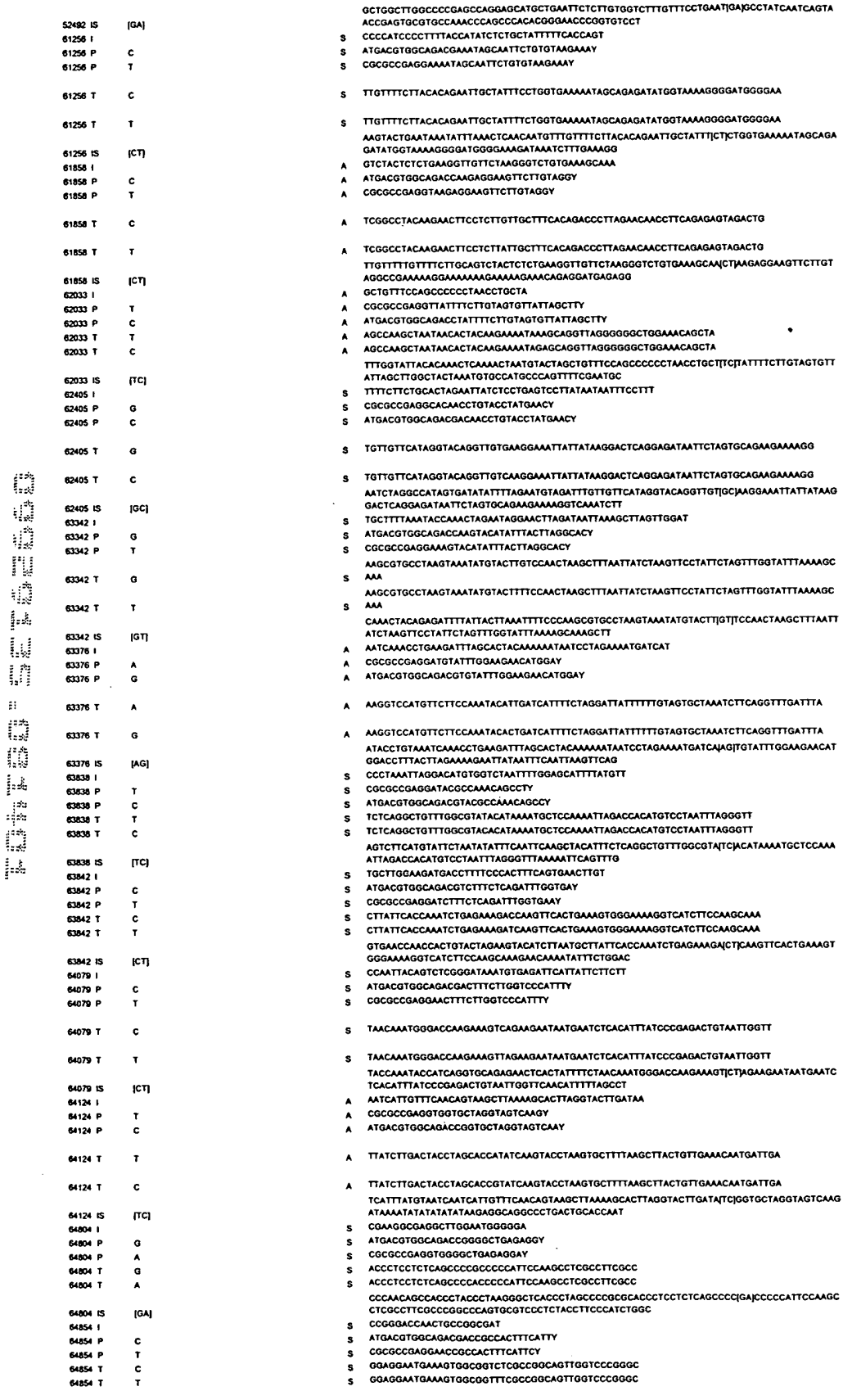

GCTGGCTTGGCCCCGAGCCAGGAGCATGCTGAATTCTCTTGTGGTCTTTGTTTCCTGAAT[GA]GCCTATCAATCAGTA
52492 IS [GA] ACCGAGTGCGTGCCAAACCCAGCCCACACGGGAACCCGGTGTCCT
61256 I S CCCCATCCCCTTTTACCATATCTCTGCTATTTTTCACCAGT
61256 P C S ATGACGTGGCAGACGAAATAGCAATTCTGTGTAAGAAAY
61256 P T S CGCGCCGAGGAAAATAGCAATTCTGTGTAAGAAAY
61256 T C S TTGTTTTCTTACACAGAATTGCTATTTCCTGGTGAAAAATAGCAGAGATATGGTAAAAGGGGATGGGGAA
61256 T T S TTGTTTTCTTACACAGAATTGCTATTTTCTGGTGAAAAATAGCAGAGATATGGTAAAAGGGGATGGGGAA
61256 IS [CT] AAGTACTGAATAAATATTTAAACTCAACAATGTTTGTTTTCTTACACAGAATTGCTATTT[CT]CTGGTGAAAAATAGCAGA GATATGGTAAAAGGGGATGGGGAAAGATAAATCTTTGAAAGG
61858 I A GTCTACTCTCTGAAGGTTGTTCTAAGGGTCTGTGAAAGCAAA
61858 P C A ATGACGTGGCAGACCAAGAGGAAGTTCTTGTAGGY
61858 P T A CGCGCCGAGGTAAGAGGAAGTTCTTGTAGGY
61858 T C A TCGGCCTACAAGAACTTCCTCTTGTTGCTTTCACAGACCCTTAGAACAACCTTCAGAGAGTAGACTG
61858 T T A TCGGCCTACAAGAACTTCCTCTTATTGCTTTCACAGACCCTTAGAACAACCTTCAGAGAGTAGACTG
61858 IS [CT] TTGTTTTTGTTTTCTTGCAGTCTACTCTCTGAAGGTTGTTCTAAGGGTCTGTGAAAGCAA[CT]AAGAGGAAGTTCTTGT AGGCCGAAAAAGGAAAAAAAGAAAAAGAAACAGAGGATGAGAGG
62033 I A GCTGTTTCCAGCCCCCCTAACCTGCTA
62033 P T A CGCGCCGAGGTTATTTTCTTGTAGTGTTATTAGCTTY
62033 P C A ATGACGTGGCAGACCTATTTTCTTGTAGTGTTATTAGCTTY
62033 T T A AGCCAAGCTAATAACACTACAAGAAAATAAAGCAGGTTAGGGGGGCTGGAAACAGCTA
62033 T C A AGCCAAGCTAATAACACTACAAGAAAATAGAGCAGGTTAGGGGGGCTGGAAACAGCTA
62033 IS [TC] TTTGGTATTACACAAACTCAAAACTAATGTACTAGCTGTTTCCAGCCCCCCTAACCTGCT[TC]TATTTTCTTGTAGTGTT ATTAGCTTGGCTACTAAATGTGCCATGCCCAGTTTTCGAATGC
62405 I S TTTTCTTCTGCACTAGAATTATCTCCTGAGTCCTTATAATAATTTCCTTT
62405 P G S CGCGCCGAGGCACAACCTGTACCTATGAACY
62405 P C S ATGACGTGGCAGACGACAACCTGTACCTATGAACY
62405 T G S TGTTGTTCATAGGTACAGGTTGTGAAGGAAATTATTATAAGGACTCAGGAGATAATTCTAGTGCAGAAGAAAAGG
62405 T C S TGTTGTTCATAGGTACAGGTTGTCAAGGAAATTATTATAAGGACTCAGGAGATAATTCTAGTGCAGAAGAAAAGG
62405 IS [GC] AATCTAGGCCATAGTGATATATTTTAGAATGTAGATTTGTTGTTCATAGGTACAGGTTGT[GC]AAGGAAATTATTATAAG GACTCAGGAGATAATTCTAGTGCAGAAGAAAAGGTCAAATCTT
63342 I S TGCTTTTAAATACCAAACTAGAATAGGAACTTAGATAATTAAAGCTTAGTTGGAT
63342 P G S ATGACGTGGCAGACCAAGTACATATTTACTTAGGCACY
63342 P T S CGCGCCGAGGAAAGTACATATTTACTTAGGCACY
63342 T G S AAGCGTGCCTAAGTAAATATGTACTTGTCCAACTAAGCTTTAATTATCTAAGTTCCTATTCTAGTTTGGTATTTAAAAGC AAA
63342 T T S AAGCGTGCCTAAGTAAATATGTACTTTTCCAACTAAGCTTTAATTATCTAAGTTCCTATTCTAGTTTGGTATTTAAAAGC AAA
63342 IS [GT] CAAACTACAGAGATTTTATTACTTAAATTTTCCCAAGCGTGCCTAAGTAAATATGTACTT[GT]TCCAACTAAGCTTTAATT ATCTAAGTTCCTATTCTAGTTTGGTATTTAAAAGCAAAGCTT
63376 I A AATCAAACCTGAAGATTTAGCACTACAAAAAATAATCCTAGAAAATGATCAT
63376 P A A CGCGCCGAGGATGTATTTGGAAGAACATGGAY
63376 P G A ATGACGTGGCAGACGTGTATTTGGAAGAACATGGAY
63376 T A A AAGGTCCATGTTCTTCCAAATACATTGATCATTTTCTAGGATTATTTTTTGTAGTGCTAAATCTTCAGGTTTGATTTA
63376 T G A AAGGTCCATGTTCTTCCAAATACACTGATCATTTTCTAGGATTATTTTTTGTAGTGCTAAATCTTCAGGTTTGATTTA
63376 IS [AG] ATACCTGTAAATCAAACCTGAAGATTTAGCACTACAAAAAATAATCCTAGAAAATGATCA[AG]TGTATTTGGAAGAACAT GGACCTTTACTTAGAAAAGAATTATAATTTCAATTAAGTTCAG
63838 I S CCCTAAATTAGGACATGTGGTCTAATTTTGGAGCATTTTATGTT
63838 P T S CGCGCCGAGGATACGCCAAACAGCCTY
63838 P C S ATGACGTGGCAGACGTACGCCAAACAGCCY
63838 T T S TCTCAGGCTGTTTGGCGTATACATAAAATGCTCCAAAATTAGACCACATGTCCTAATTTAGGGTT
63838 T C S TCTCAGGCTGTTTGGCGTACACATAAAATGCTCCAAAATTAGACCACATGTCCTAATTTAGGGTT
63838 IS [TC] AGTCTTCATGTATTCTAATATATTTCAATTCAAGCTACATTTCTCAGGCTGTTTGGCGTA[TC]ACATAAAATGCTCCAAA ATTAGACCACATGTCCTAATTTAGGGTTTAAAAATTCAGTTTG
63842 I S TGCTTGGAAGATGACCTTTTCCCACTTTCAGTGAACTTGT
63842 P C S ATGACGTGGCAGACGTCTTTCTCAGATTTGGTGAY
63842 P T S CGCGCCGAGGATCTTTCTCAGATTTGGTGAAY
63842 T C S CTTATTCACCAAATCTGAGAAAGACCAAGTTCACTGAAAGTGGGAAAAGGTCATCTTCCAAGCAAA
63842 T T S CTTATTCACCAAATCTGAGAAAGATCAAGTTCACTGAAAGTGGGAAAAGGTCATCTTCCAAGCAAA
63842 IS [CT] GTGAACCAACCACTGTACTAGAAGTACATCTTAATGCTTATTCACCAAATCTGAGAAAGA[CT]CAAGTTCACTGAAAGT GGGAAAAGGTCATCTTCCAAGCAAAGAACAAAATATTTCTGGAC
64079 I S CCAATTACAGTCTCGGGATAAATGTGAGATTCATTATTCTTCTT
64079 P C S ATGACGTGGCAGACGACTTTCTTGGTCCCATTTY
64079 P T S CGCGCCGAGGAACTTTCTTGGTCCCATTTY
64079 T C S TAACAAATGGGACCAAGAAAGTCAGAAGAATAATGAATCTCACATTTATCCCGAGACTGTAATTGGTT
64079 T T S TAACAAATGGGACCAAGAAAGTTAGAAGAATAATGAATCTCACATTTATCCCGAGACTGTAATTGGTT
64079 IS [CT] TACCAAATACCATCAGGTGCAGAGAACTCACTATTTTCTAACAAATGGGACCAAGAAAGT[CT]AGAAGAATAATGAATC TCACATTTATCCCGAGACTGTAATTGGTTCAACATTTTAGCCT
64124 I A AATCATTGTTTCAACAGTAAGCTTAAAAGCACTTAGGTACTTGATAA
64124 P T A CGCGCCGAGGTGGTGCTAGGTAGTCAAGY
64124 P C A ATGACGTGGCAGACCGGTGCTAGGTAGTCAAY
64124 T T A TTATCTTGACTACCTAGCACCATATCAAGTACCTAAGTGCTTTTAAGCTTACTGTTGAAACAATGATTGA
64124 T C A TTATCTTGACTACCTAGCACCGTATCAAGTACCTAAGTGCTTTTAAGCTTACTGTTGAAACAATGATTGA
64124 IS [TC] TCATTTATGTAATCAATCATTGTTTCAACAGTAAGCTTAAAAGCACTTAGGTACTTGATA[TC]GGTGCTAGGTAGTCAAG ATAAAATATATATATATAAGAGGCAGGCCCTGACTGCACCAAT
64804 I S CGAAGGCGAGGCTTGGAATGGGGGA
64804 P G S ATGACGTGGCAGACCGGGGCTGAGAGGY
64804 P A S CGCGCCGAGGTGGGGCTGAGAGGAY
64804 T G S ACCCTCCTCTCAGCCCCGCCCCCATTCCAAGCCTCGCCTTCGCC
64804 T A S ACCCTCCTCTCAGCCCCACCCCCATTCCAAGCCTCGCCTTCGCC
64804 IS [GA] CCCAACAGCCACCCTACCCTAAGGGCTCACCCTAGCCCCGCGCACCCTCCTCTCAGCCCC[GA]CCCCCATTCCAAGC CTCGCCTTCGCCCGGCCCAGTGCGTCCCTCTACCTTCCCATCTGGC
64854 I S CCGGGACCAACTGCCGGCGAT
64854 P C S ATGACGTGGCAGACGACCGCCACTTTCATTY
64854 P T S CGCGCCGAGGAACCGCCACTTTCATTCY
64854 T C S GGAGGAATGAAAGTGGCGGTCTCGCCGGCAGTTGGTCCCGGGC
64854 T T S GGAGGAATGAAAGTGGCGGTTTCGCCGGCAGTTGGTCCCGGGC

FIGURE 129D

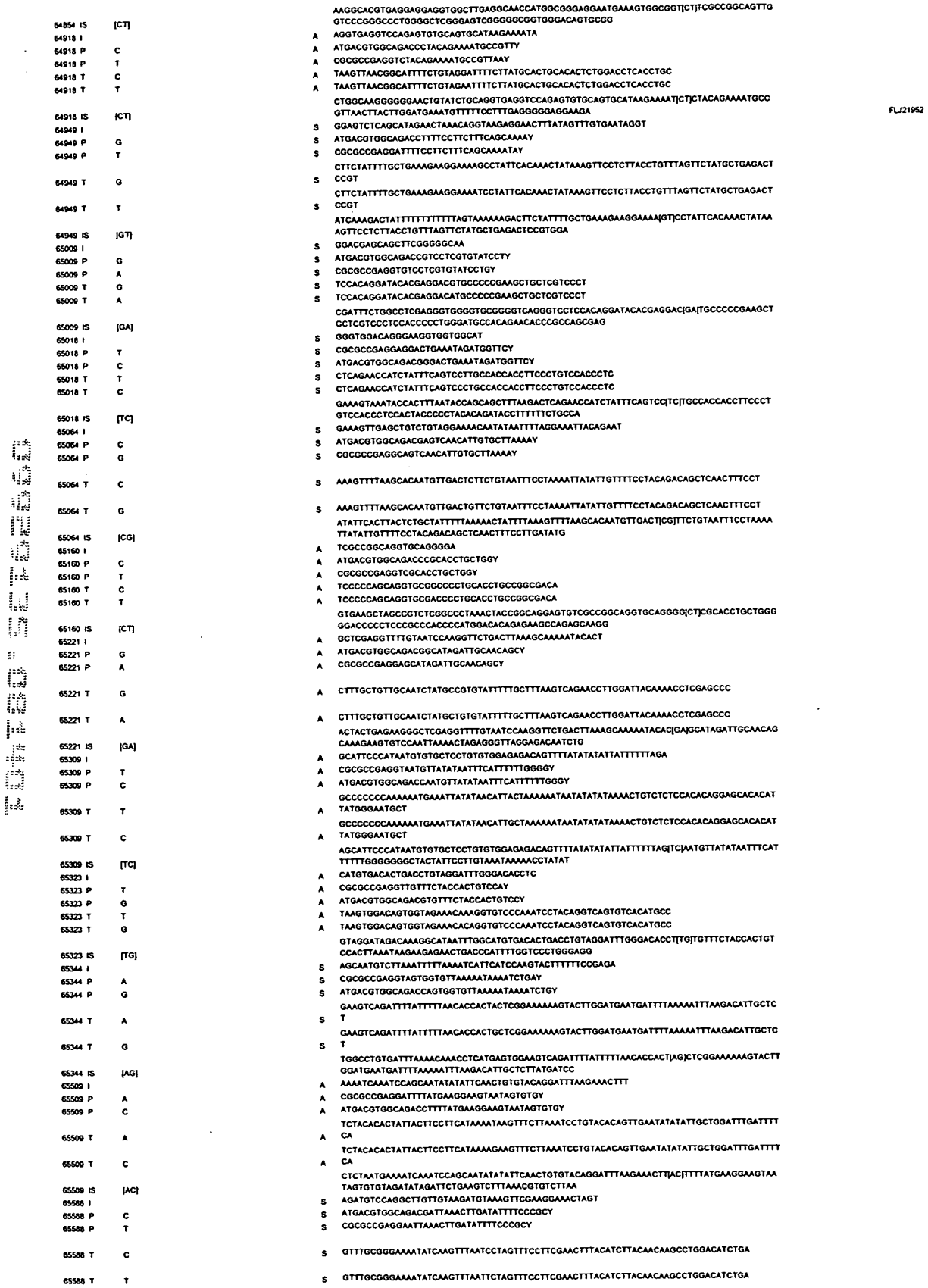

AAGGCACGTGAGGAGGAGGTGGCTTGAGGCAACCATGGCGGGAGGAATGAAAGTGGCGGT[CT]TCGCCGGCAGTTG
64854 IS [CT] GTCCCGGGCCCTGGGGCTCGGGAGTCGGGGGCGGTGGGACAGTGCGG
64918 I A AGGTGAGGTCCAGAGTGTGCAGTGCATAAGAAAATA
64918 P C A ATGACGTGGCAGACCCTACAGAAAATGCCGTTY
64918 P T A CGCGCCGAGGTCTACAGAAAATGCCGTTAAY
64918 T C A TAAGTTAACGGCATTTTCTGTAGGATTTTCTTATGCACTGCACACTCTGGACCTCACCTGC
64918 T T A TAAGTTAACGGCATTTTCTGTAGAATTTTCTTATGCACTGCACACTCTGGACCTCACCTGC
CTGGCAAGGGGGGAACTGTATCTGCAGGTGAGGTCCAGAGTGTGCAGTGCATAAGAAAAT[CT]CTACAGAAAATGCC
64918 IS [CT] GTTAACTTACTTGGATGAAATGTTTTTCCTTTGAGGGGGAGGAAGA FLJ21952
64949 I S GGAGTCTCAGCATAGAACTAAACAGGTAAGAGGAACTTTATAGTTTGTGAATAGGT
64949 P G S ATGACGTGGCAGACCTTTTCCTTCTTTCAGCAAAAY
64949 P T S CGCGCCGAGGATTTTCCTTCTTTCAGCAAAATAY
CTTCTATTTTGCTGAAAGAAGGAAAAGCCTATTCACAAACTATAAAGTTCCTCTTACCTGTTTAGTTCTATGCTGAGACT
64949 T G S CCGT
CTTCTATTTTGCTGAAAGAAGGAAAATCCTATTCACAAACTATAAAGTTCCTCTTACCTGTTTAGTTCTATGCTGAGACT
64949 T T S CCGT
ATCAAAGACTATTTTTTTTTTTTAGTAAAAAAGACTTCTATTTTGCTGAAAGAAGGAAAA[GT]CCTATTCACAAACTATAA
64949 IS [GT] AGTTCCTCTTACCTGTTTAGTTCTATGCTGAGACTCCGTGGA
65009 I S GGACGAGCAGCTTCGGGGGCAA
65009 P G S ATGACGTGGCAGACCGTCCTCGTGTATCCTY
65009 P A S CGCGCCGAGGTGTCCTCGTGTATCCTGY
65009 T G S TCCACAGGATACACGAGGACGTGCCCCCGAAGCTGCTCGTCCCT
65009 T A S TCCACAGGATACACGAGGACATGCCCCCGAAGCTGCTCGTCCCT
CGATTTCTGGCCTCGAGGGTGGGGTGCCGGGGTCAGGGTCCTCCACAGGATACACGAGGAC[GA]TGCCCCCGAAGCT
65009 IS [GA] GCTCGTCCCTCCACCCCCTGGGATGCCACAGAACACCCGCCAGCGAG
65018 I S GGGTGGACAGGGAAGGTGGTGGCAT
65018 P T S CGCGCCGAGGAGGACTGAAATAGATGGTTCY
65018 P C S ATGACGTGGCAGACGGGACTGAAATAGATGGTTCY
65018 T T S CTCAGAACCATCTATTTCAGTCCTTGCCACCACCTTCCCTGTCCACCCTC
65018 T C S CTCAGAACCATCTATTTCAGTCCCTGCCACCACCTTCCCTGTCCACCCTC
GAAAGTAAATACCACTTTAATACCAGCAGCTTTAAGACTCAGAACCATCTATTTCAGTCC[TC]TGCCACCACCTTCCCT
65018 IS [TC] GTCCACCCTCCACTACCCCCTACACAGATACCTTTTTTCTGCCA
65064 I S GAAAGTTGAGCTGTCTGTAGGAAAACAATATAATTTTAGGAAATTACAGAAT
65064 P C S ATGACGTGGCAGACGAGTCAACATTGTGCTTAAAAY
65064 P G S CGCGCCGAGGCAGTCAACATTGTGCTTAAAAY
65064 T C S AAAGTTTTAAGCACAATGTTGACTCTTCTGTAATTTCCTAAAATTATATTGTTTTCCTACAGACAGCTCAACTTTCCT
65064 T G S AAAGTTTTAAGCACAATGTTGACTGTTCTGTAATTTCCTAAAATTATATTGTTTTCCTACAGACAGCTCAACTTTCCT
ATATTCACTTACTCTGCTATTTTTTAAAAACTATTTTAAAGTTTTAAGCACAATGTTGAC[TC]TTCTGTAATTTCCTAAAA
65064 IS [CG] TTATATTGTTTTCCTACAGACAGCTCAACTTTCCTTGATATG
65160 I A TCGCCGGCAGGTGCAGGGGA
65160 P C A ATGACGTGGCAGACCCGCACCTGCTGGY
65160 P T A CGCGCCGAGGTCGCACCTGCTGGY
65160 T C A TCCCCCAGCAGGTGCGGCCCCTGCACCTGCCGGCGACA
65160 T T A TCCCCCAGCAGGTGCGACCCCTGCACCTGCCGGCGACA
GTGAAGCTAGCCGTCTCGGCCCTAAACTACCGGCAGGAGTGTCGCCGGCAGGTGCAGGGG[CT]CGCACCTGCTGGG
65160 IS [CT] GGACCCCCTCCCGCCCACCCCATGGACACAGAGAAGCCAGAGCAAGG
65221 I A GCTCGAGGTTTTGTAATCCAAGGTTCTGACTTAAAGCAAAAATACACT
65221 P G A ATGACGTGGCAGACGGCATAGATTGCAACAGCY
65221 P A A CGCGCCGAGGAGCATAGATTGCAACAGCY
65221 T G A CTTTGCTGTTGCAATCTATGCCGTGTATTTTTGCTTTAAGTCAGAACCTTGGATTACAAAACCTCGAGCCC
65221 T A A CTTTGCTGTTGCAATCTATGCTGTGTATTTTTGCTTTAAGTCAGAACCTTGGATTACAAAACCTCGAGCCC
ACTACTGAGAAGGGCTCGAGGTTTTGTAATCCAAGGTTCTGACTTAAAGCAAAAATACAC[GA]GCATAGATTGCAACAG
65221 IS [GA] CAAAGAAGTGTCCAATTAAAACTAGAGGGTTAGGAGACAATCTG
65309 I A GCATTCCCATAATGTGTGCTCCTGTGTGGAGAGACAGTTTTATATATATTATTTTTTAGA
65309 P T A CGCGCCGAGGTAATGTTATATAATTTCATTTTTTGGGGY
65309 P C A ATGACGTGGCAGACCAATGTTATATAATTTCATTTTTTGGGGY
GCCCCCCCAAAAAATGAAATTATATAACATTACTAAAAAATAATATATATAAAACTGTCTCTCCACACAGGAGCACACAT
65309 T T A TATGGGAATGCT
GCCCCCCCAAAAAATGAAATTATATAACATTGCTAAAAAATAATATATATAAAACTGTCTCTCCACACAGGAGCACACAT
65309 T C A TATGGGAATGCT
AGCATTCCCATAATGTGTGCTCCTGTGTGGAGAGACAGTTTTATATATATTATTTTTTAG[TC]AATGTTATATAATTTCAT
65309 IS [TC] TTTTTGGGGGGGCTACTATTCCTTGTAAATAAAAACCTATAT
65323 I A CATGTGACACTGACCTGTAGGATTTGGGACACCTC
65323 P T A CGCGCCGAGGTTGTTTCTACCACTGTCCAY
65323 P G A ATGACGTGGCAGACGTGTTTCTACCACTGTCCY
65323 T T A TAAGTGGACAGTGGTAGAAACAAAGGTGTCCCAAATCCTACAGGTCAGTGTCACATGCC
65323 T G A TAAGTGGACAGTGGTAGAAACACAGGTGTCCCAAATCCTACAGGTCAGTGTCACATGCC
GTAGGATAGACAAAGGCATAATTTGGCATGTGACACTGACCTGTAGGATTTGGGACACCT[TG]TGTTTCTACCACTGT
65323 IS [TG] CCACTTAAATAAGAAGAGAACTGACCCATTTTGGTCCCTGGGAGG
65344 I S AGCAATGTCTTAAATTTTTAAAATCATTCATCCAAGTACTTTTTCCGAGA
65344 P A S CGCGCCGAGGTAGTGGTGTTAAAAATAAAATCTGAY
65344 P G S ATGACGTGGCAGACCAGTGGTGTTAAAAATAAAATCTGY
GAAGTCAGATTTTATTTTTAACACCACTACTCGGAAAAAAGTACTTGGATGAATGATTTTAAAAATTTAAGACATTGCTC
65344 T A S T
GAAGTCAGATTTTATTTTTAACACCACTGCTCGGAAAAAAGTACTTGGATGAATGATTTTAAAAATTTAAGACATTGCTC
65344 T G S T
TGGCCTGTGATTTAAAACAAACCTCATGAGTGGAAGTCAGATTTTATTTTTAACACCACT[AG]CTCGGAAAAAAGTACTT
65344 IS [AG] GGATGAATGATTTTAAAAATTTAAGACATTGCTCTTATGATCC
65509 I A AAAATCAAATCCAGCAATATATATTCAACTGTGTACAGGATTTAAGAAACTTT
65509 P A A CGCGCCGAGGATTTTATGAAGGAAGTAATAGTGTGY
65509 P C A ATGACGTGGCAGACCTTTTATGAAGGAAGTAATAGTGTGY
TCTACACACTATTACTTCCTTCATAAAATAAGTTTCTTAAATCCTGTACACAGTTGAATATATATTGCTGGATTTGATTTT
65509 T A A CA
TCTACACACTATTACTTCCTTCATAAAAGAAGTTTCTTAAATCCTGTACACAGTTGAATATATATTGCTGGATTTGATTTT
65509 T C A CA
CTCTAATGAAAATCAAATCCAGCAATATATATTCAACTGTGTACAGGATTTAAGAAACTT[AC]TTTTATGAAGGAAGTAA
65509 IS [AC] TAGTGTGTAGATATAGATTCTGAAGTCTTTAAACGTGTCTTAA
65588 I S AGATGTCCAGGCTTGTTGTAAGATGTAAAGTTCGAAGGAAACTAGT
65588 P C S ATGACGTGGCAGACGATTAAACTTGATATTTTCCCGCY
65588 P T S CGCGCCGAGGAATTAAACTTGATATTTTCCCGCY
65588 T C S GTTTGCGGGAAAATATCAAGTTTAATCCTAGTTTCCTTCGAACTTTACATCTTACAACAAGCCTGGACATCTGA
65588 T T S GTTTGCGGGAAAATATCAAGTTTAATTCTAGTTTCCTTCGAACTTTACATCTTACAACAAGCCTGGACATCTGA

FIGURE 129D

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                                                                                TTTCCTCCAAACTGCTTGTTGATTAAAGCAATGGGTTTGCGGGAAAATATCAAGTTTAAT[CT]CTAGTTTCCTTCGAACT
65588 IS    [CT]                                                                TTACATCTTACAACAAGCCTGGACATCTGATTCTGTGTATTTG
65716 I                                                                  A      TGCTCACTTTATTCTTCCTAAAATATGTGTGGAATACAAATGCTCTCAGATTGAT
65716 P     A                                                            A      CGCGCCGAGGATTCCTCTTTGAACCACACY
65716 P     G                                                            A      ATGACGTGGCAGACGTTCCTCTTTGAACCACAY

65716 T     A                                                            A      AAATGTGTGGTTCAAAGAGGAATTCAATCTGAGAGCATTTGTATTCCACACATATTTTAGGAAGAATAAAGTGAGCATT

65716 T     G                                                            A      AAATGTGTGGTTCAAAGAGGAACTCAATCTGAGAGCATTTGTATTCCACACATATTTTAGGAAGAATAAAGTGAGCATT
                                                                                TGCAAATGCTCACTTTATTCTTCCTAAAATATGTGTGGAATACAAATGCTCTCAGATTGA[AG]TTCCTCTTTGAACCACA
65716 IS    [AG]                                                                CATTTGAATATTTTCTGCTTAATATTTGCTAATGCCCATGAAA
65741 I                                                                  A      CCAGCATGCTCTTCTTCCACCAGTAGGGAGC
65741 P     G                                                            A      ATGACGTGGCAGACGAATAATAAACATGTCAAGAGGAGY
65741 P     T                                                            A      CGCGCCGAGGTAATAATAAACATGTCAAGAGGAGY
65741 T     G                                                            A      TCTGCTCCTCTTGACATGTTTATTATTCCTCCCTACTGGTGGAAGAAGAGCATGCTGGCC
65741 T     T                                                            A      TCTGCTCCTCTTGACATGTTTATTATTACTCCCTACTGGTGGAAGAAGAGCATGCTGGCC
                                                                                ACATGAGTGGAGGGGTTATTCTCTAAGAGGCCAGCATGCTCTTCTTCCACCAGTAGGGAG[GT]AATAATAAACATGTC
65741 IS    [GT]                                                                AAGAGGAGCAGAAAAAAGATAAGAGTTCCTTAAAATCTTTTGAGG
65793 I                                                                  S      GAAATAATGAAAAATTGACTCTTTTTAATATATTGTCATATTCTAAAACACTAAAAAGTGT
65793 P     G                                                            S      ATGACGTGGCAGACCCTGACCAATAGTAGGAATAATATY
65793 P     T                                                            S      CGCGCCGAGGACTGACCAATAGTAGGAATAATATGY
                                                                                TCATCATATTATTCCTACTATTGGTCAGGCACTTTTTAGTGTTTTAGAATATGACAATATATTAAAAAGAGTCAATTTTTC
65793 T     G                                                            S      ATTATTTC
                                                                                TCATCATATTATTCCTACTATTGGTCAGTCACTTTTTAGTGTTTTAGAATATGACAATATATTAAAAAGAGTCAATTTTTC
65793 T     T                                                            S      ATTATTTC
                                                                                GGAGAAAACTGGAGGAAAGGGGCTATTGGAGTTCATCATATTATTCCTACTATTGGTCAG[GT]CACTTTTTAGTGTTTT
65793 IS    [GT]                                                                AGAATATGACAATATATTAAAAAGAGTCAATTTTTCATTATTTC
65882 I                                                                  S      CATGGCTCTACTTTCCTAAGTTAGTGGCTAAAATATAAAGAATGAACCTCAGATT
65882 P     G                                                            S      CGCGCCGAGGCCTGAGTTAGTCAATGCAAY
65882 P     C                                                            S      ATGACGTGGCAGACGCTGAGTTAGTCAATGCAY

65882 T     G                                                            S      TATTTTGCATTGACTAACTCAGGATCTGAGGTTCATTCTTTATATTTTAGCCACTAACTTAGGAAAGTAGAGCCATGAC

65882 T     C                                                            S      TATTTTGCATTGACTAACTCAGCATCTGAGGTTCATTCTTTATATTTTAGCCACTAACTTAGGAAAGTAGAGCCATGAC
                                                                                TACACAGCTGCTGACATTTCCATATAGCTACTATATTATATTTTGCATTGACTAACTCAG[GC]ATCTGAGGTTCATTCTT
65882 IS    [GC]                                                                TATATTTTAGCCACTAACTTAGGAAAGTAGAGCCATGACTTTC
65987 I                                                                  A      CCTGTCTTCCTGGAGCTTGGGCTATAATGGGT
65987 P     A                                                            A      CGCGCCGAGGAGAGACACAGCCAATCCY
65987 P     G                                                            A      ATGACGTGGCAGACGGAGACACAGCCAATCY
65987 T     A                                                            A      ATTGGGATTGGCTGTGTCTCTCCCATTATAGCCCAAGCTCCAGGAAGACAGGGA
65987 T     G                                                            A      ATTGGGATTGGCTGTGTCTCCCCCATTATAGCCCAAGCTCCAGGAAGACAGGGA
                                                                                AAGTGTTAGAGGAGAGGGAAGCCATGATCCCTGTCTTCCTGGAGCTTGGGCTATAATGGG[AG]GAGACACAGCCAAT
65987 IS    [AG]                                                                CCCAATAAGCGAGCATGAACCCAGCTGACACATAACCCCGAGACAC
65994 I                                                                  A      GGATCCTCACGGAAATAGTAGATCCTTATGCTGTCTCCAT
65994 P     G                                                            A      ATGACGTGGCAGACGTGTGGTGAAGTTGATCTGY
65994 P     A                                                            A      CGCGCCGAGGATGTGGTGAAGTTGATCTGY
65994 T     G                                                            A      AGCTCAGATCAACTTCACCACACTGGAGACAGCATAAGGATCTACTATTTCCGTGAGGATCCTG
65994 T     A                                                            A      AGCTCAGATCAACTTCACCACATTGGAGACAGCATAAGGATCTACTATTTCCGTGAGGATCCTG
                                                                                AGAGCTAATTTTTTCCTCCCAGGATCCTCACGGAAATAGTAGATCCTTATGCTGTCTCCA[GA]TGTGGTGAAGTTGATC
65994 IS    [GA]                                                                TGAGCTTGTCCTTGGGACCTGGCACTGGTGGTGTCTGCATGGCT
66005 I                                                                  A      TTCAACAATTATCTAAGCAACGAACAGATATTCGAAATGTTCTCTT
66005 P     A                                                            A      CGCGCCGAGGAGCTTTTGAAGACGACAAY
66005 P     C                                                            A      ATGACGTGGCAGACCGCTTTTGAAGACGACAY

66005 T     A                                                            A      CCTGTTGTCGTCTTCAAAAGCTAGAGAACATTTCGAATATCTGTTCGTTGCTTAGATAATTGTTGAAAT

66005 T     C                                                            A      CCTGTTGTCGTCTTCAAAAGCGAGAGAACATTTCGAATATCTGTTCGTTGCTTAGATAATTGTTGAAAT
                                                                                TTAAATATGTTTAATTTCAACAATTATCTAAGCAACGAACAGATATTCGAAATGTTCTCT[AC]GCTTTTGAAGACGACAA
66005 IS    [AC]                                                                CAGGAGTCTCCGTGTTTTAAGTTTAATATAGGATATATCAGAT
66072 I                                                                  S      GACTATGCATATTACTCAAGTTTAAGAAACACTAATCTAAAAAATTTCTAGTCAAACAA
66072 P     A                                                            S      CGCGCCGAGGTAGGAATTCTTTAATGTTCTTAGCY
66072 P     G                                                            S      ATGACGTGGCAGACCAGGAATTCTTTAATGTTCTTAGCY
                                                                                TACTGCTAAGAACATTAAAGAATTCCTATGTTTGACTAGAAATTTTTTAGATTAGTGTTTCTTAAACTTGAGTAATATGCA
66072 T     A                                                            S      TAGTCCT
                                                                                TACTGCTAAGAACATTAAAGAATTCCTGTGTTTGACTAGAAATTTTTTAGATTAGTGTTTCTTAAACTTGAGTAATATGC
66072 T     G                                                            S      ATAGTCCT
                                                                                AAGTGGAAGAATTTGTTAAGAGATATGAGCATTTACTGCTAAGAACATTAAAGAATTCCT[AG]TGTTTGACTAGAAATTT
66072 IS    [AG]                                                                TTTAGATTAGTGTTTCTTAAACTTGAGTAATATGCATAGTCCT
66073 I                                                                  S      GGGTCCTCCATGACTTTTGTCCTTTAAAAGGACTATGCATT
66073 P     T                                                            S      CGCGCCGAGGATTACTCAAGTTTAAGAAACACTAATY
66073 P     C                                                            S      ATGACGTGGCAGACGTTACTCAAGTTTAAGAAACACTAAY

66073 T     T                                                            S      TTAGATTAGTGTTTCTTAAACTTGAGTAATATGCATAGTCCTTTTAAAGGACAAAAGTCATGGAGGACCCTC

66073 T     C                                                            S      TTAGATTAGTGTTTCTTAAACTTGAGTAACATGCATAGTCCTTTTAAAGGACAAAAGTCATGGAGGACCCTC
                                                                                TAAAGAATTCCTATGTTTGACTAGAAATTTTTTAGATTAGTGTTTCTTAAACTTGAGTAA[TC]ATGCATAGTCCTTTTAAA
66073 IS    [TC]                                                                GGACAAAAGTCATGGAGGACCCTCAGCATTGGCTTTTTATTA
66083 I                                                                  A      GCCCTGGTGCTTTTCACTGGGACATAGCATTTACT
66083 P     A                                                            A      CGCGCCGAGGATGGCAATAACACATTTTGCY
66083 P     G                                                            A      ATGACGTGGCAGACGTGGCAATAACACATTTTGCY
66083 T     A                                                            A      TGGTGCAAAATGTGTTATTGCCATGTAAATGCTATGTCCCAGTGAAAAGCACCAGGGCAT
66083 T     G                                                            A      TGGTGCAAAATGTGTTATTGCCACGTAAATGCTATGTCCCAGTGAAAAGCACCAGGGCAT
                                                                                TTATTCCTTTGATGTGCACAGCACATGCCCTGGTGCTTTTCACTGGGACATAGCATTTAC[AG]TGGCAATAACACATTT
66083 IS    [AG]                                                                TGCACCATAGCTGCTTTCCTCATGGCAAATGAACAAATGTGATG
66087 I                                                                  S      GATTCCATCTGATTGTTTATGTGTAATATCCATGAAAGCTAGGAT
66087 P     T                                                            S      CGCGCCGAGGAAGTATTCGTCTAGTAGAAGACY
66087 P     G                                                            S      ATGACGTGGCAGACCAGTATTCGTCTAGTAGAAGACY

66087 T     T                                                            S      CTCGGTCTTCTACTAGACGAATACTTTCCTAGCTTTCATGGATATTACACATAAACAATCAGATGGAATCAA

66087 T     G                                                            S      CTCGGTCTTCTACTAGACGAATACTGTCCTAGCTTTCATGGATATTACACATAAACAATCAGATGGAATCAA
                                                                                TCTCTTGCCTACCTAACCCATGCAATTCCTACCCTCTCGGTCTTCTACTAGACGAATACT[TG]TCCTAGCTTTCATGGA
66087 IS    [TG]                                                                TATTACACATAAACAATCAGATGGAATCAAGAGTTATATTAGAA
66115 I                                                                  A      CTCCTTTGAGTGTAAACAATACAGTAAGAATTTTAAGCTACGTTAAAAGATA
66115 P     C                                                            A      ATGACGTGGCAGACCGAGGACATGGAGAGGY
66115 P     T                                                            A      CGCGCCGAGGTGAGGACATGGAGAGGY

66115 T     C                                                            A      CCAGCCTCTCCATGTCCTCGATCTTTTAACGTAGCTTAAAATTCTTACTGTATTGTTTACACTCAAAGGAGTG
```

FIGURE 129D

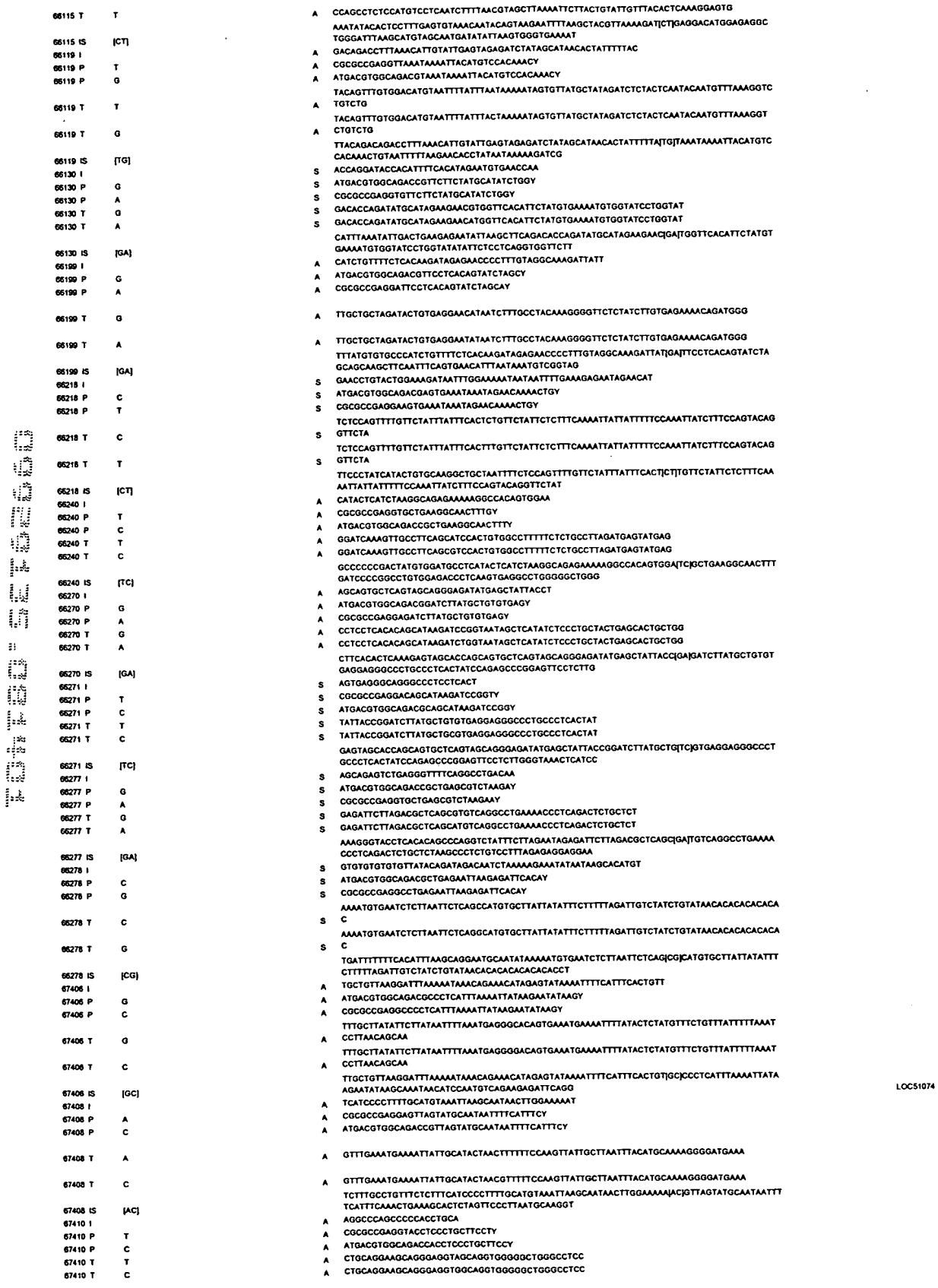
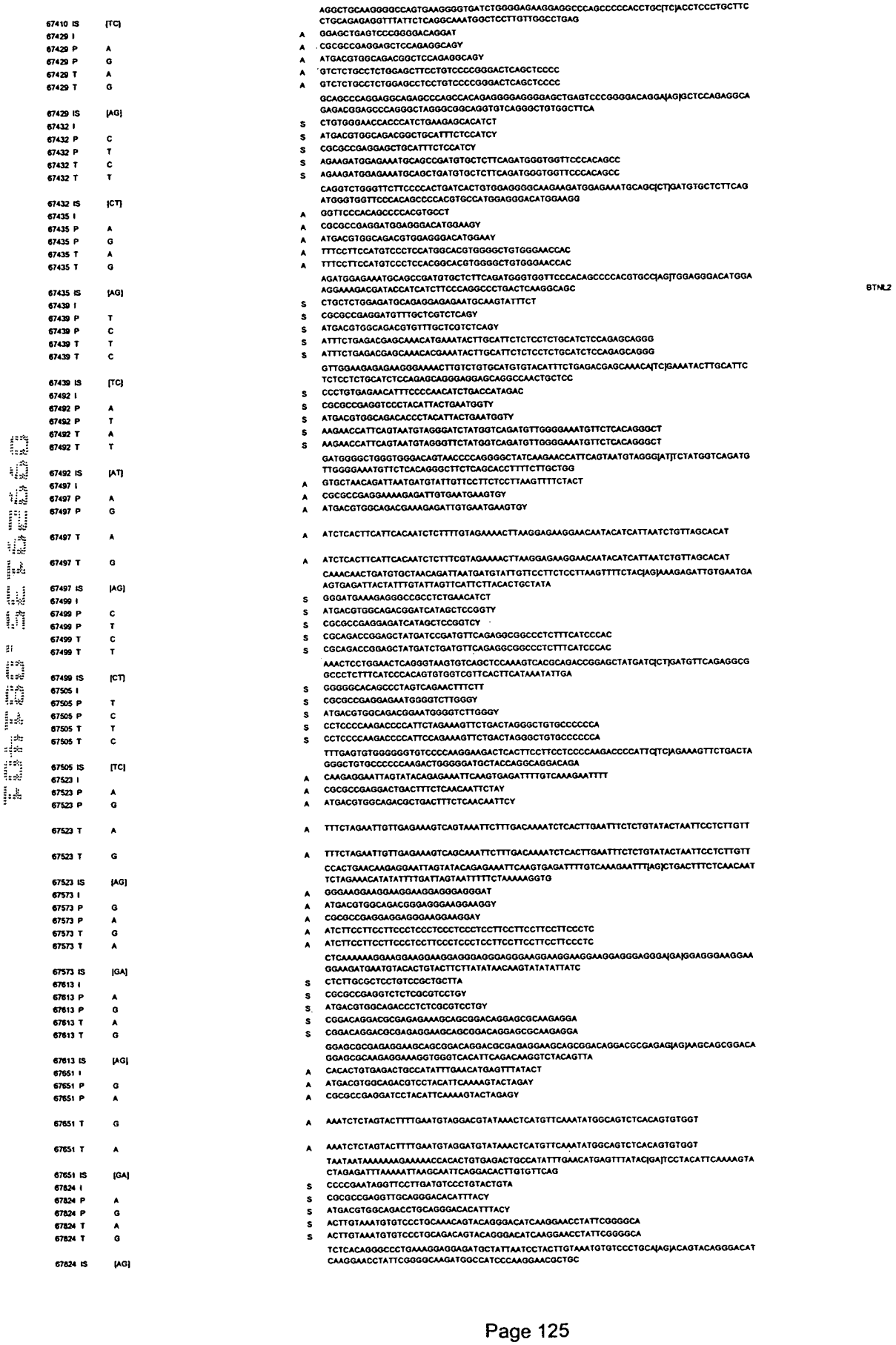
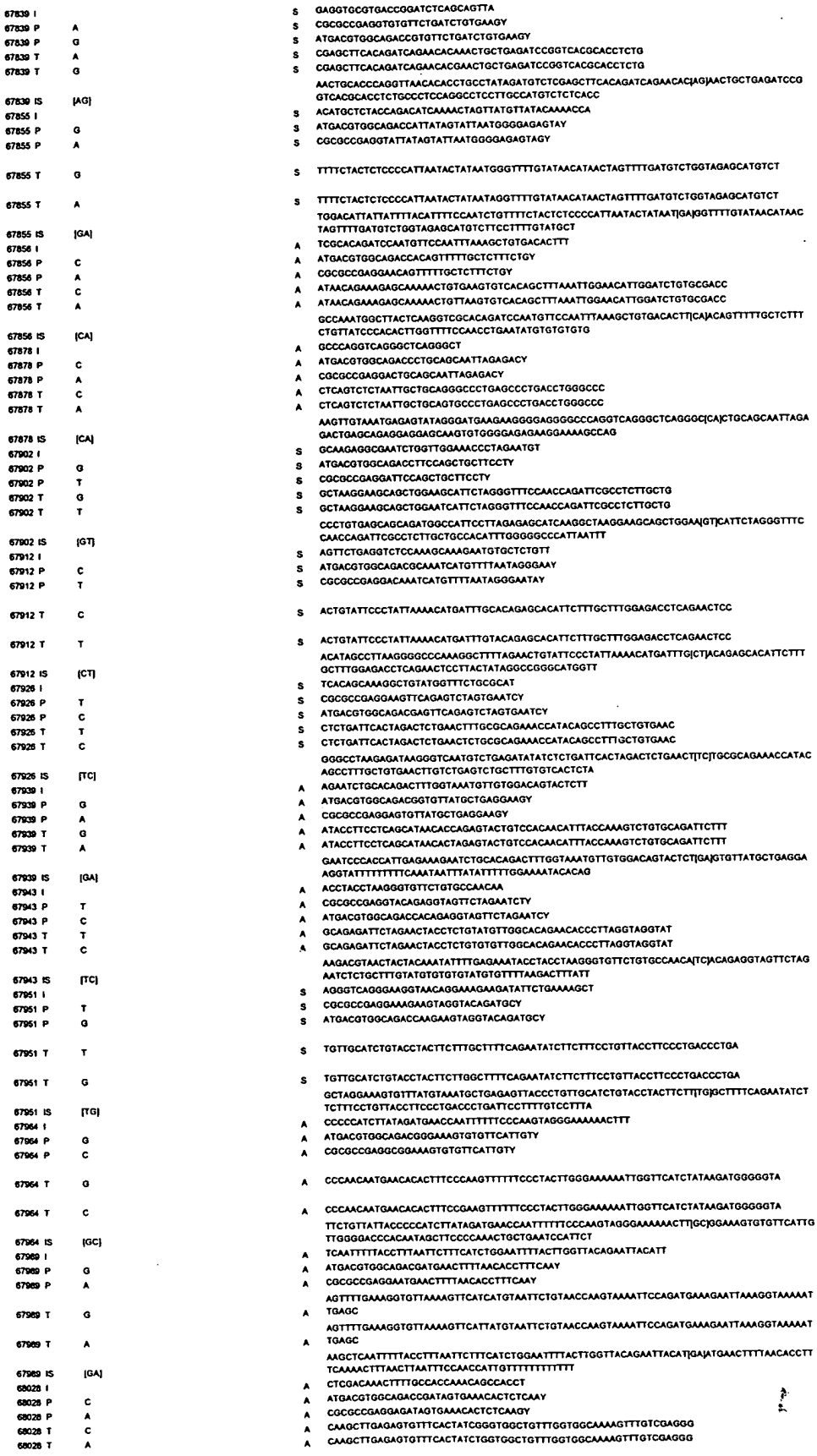

66115 T T A CCAGCCTCTCCATGTCCTCAATCTTTTAACGTAGCTTAAAATTCTTACTGTATTGTTTACACTCAAAGGAGTG
66115 IS [CT] AAATATACACTCCTTTGAGTGTAAACAATACAGTAAGAATTTTAAGCTACGTTAAAAGAT[CT]GAGGACATGGAGAGGC TGGGATTTAAGCATGTAGCAATGATATATTAAGTGGGTGAAAAT
66119 I A GACAGACCTTTAAACATTGTATTGAGTAGAGATCTATAGCATAACACTATTTTTAC
66119 P T A CGCGCCGAGGTTAAATAAAATTACATGTCCACAAACY
66119 P G A ATGACGTGGCAGACGTAAATAAAATTACATGTCCACAAACY
66119 T T TACAGTTTGTGGACATGTAATTTTATTTAATAAAAATAGTGTTATGCTATAGATCTCTACTCAATACAATGTTTAAAGGTC A TGTCTG
66119 T G TACAGTTTGTGGACATGTAATTTTATTTACTAAAAATAGTGTTATGCTATAGATCTCTACTCAATACAATGTTTAAAGGT A CTGTCTG
66119 IS [TG] TTACAGACAGACCTTTAAACATTGTATTGAGTAGAGATCTATAGCATAACACTATTTTTA[TG]TAAATAAAATTACATGTC CACAAACTGTAATTTTTAAGAACACCTATAATAAAAAGATCG
66130 I S ACCAGGATACCACATTTTCACATAGAATGTGAACCAA
66130 P G S ATGACGTGGCAGACCGTTCTTCTATGCATATCTGGY
66130 P A S CGCGCCGAGGTGTTCTTCTATGCATATCTGGY
66130 T G S GACACCAGATATGCATAGAAGAACGTGGTTCACATTCTATGTGAAAATGTGGTATCCTGGTAT
66130 T A S GACACCAGATATGCATAGAAGAACATGGTTCACATTCTATGTGAAAATGTGGTATCCTGGTAT
66130 IS [GA] CATTTAAATATTGACTGAAGAGAATATTAAGCTTCAGACACCAGATATGCATAGAAGAAC[GA]TGGTTCACATTCTATGT GAAAATGTGGTATCCTGGTATATATTCTCCTCAGGTGGTTCTT
66199 I A CATCTGTTTTCTCACAAGATAGAGAACCCCTTTGTAGGCAAAGATTATT
66199 P G A ATGACGTGGCAGACGTTCCTCACAGTATCTAGCY
66199 P A A CGCGCCGAGGATTCCTCACAGTATCTAGCAY
66199 T G A TTGCTGCTAGATACTGTGAGGAACATAATCTTTGCCTACAAAGGGGTTCTCTATCTTGTGAGAAAACAGATGGG
66199 T A A TTGCTGCTAGATACTGTGAGGAATATAATCTTTGCCTACAAAGGGGTTCTCTATCTTGTGAGAAAACAGATGGG
66199 IS [GA] TTTATGTGTGCCCATCTGTTTTCTCACAAGATAGAGAACCCCTTTGTAGGCAAAGATTAT[GA]TTCCTCACAGTATCTA GCAGCAAGCTTCAATTTCAGTGAACATTTAATAAATGTCGGTAG
66218 I S GAACCTGTACTGGAAAGATAATTTGGAAAAATAATAATTTTGAAAGAGAATAGAACAT
66218 P C S ATGACGTGGCAGACGAGTGAAATAAATAGAACAAAACTGY
66218 P T S CGCGCCGAGGAAGTGAAATAAATAGAACAAAACTGY
66218 T C TCTCCAGTTTTGTTCTATTTATTTCACTCTGTTCTATTCTCTTTCAAAATTATTATTTTTCCAAATTATCTTTCCAGTACAG S GTTCTA
66218 T T TCTCCAGTTTTGTTCTATTTATTTCACTTTGTTCTATTCTCTTTCAAAATTATTATTTTTCCAAATTATCTTTCCAGTACAG S GTTCTA
66218 IS [CT] TTCCCTATCATACTGTGCAAGGCTGCTAATTTTCTCCAGTTTTGTTCTATTTATTTCACT[CT]TGTTCTATTCTCTTTCAA AATTATTATTTTTCCAAATTATCTTTCCAGTACAGGTTCTAT
66240 I A CATACTCATCTAAGGCAGAGAAAAAGGCCACAGTGGAA
66240 P T A CGCGCCGAGGTGCTGAAGGCAACTTTGY
66240 P C A ATGACGTGGCAGACCGCTGAAGGCAACTTTY
66240 T T A GGATCAAAGTTGCCTTCAGCATCCACTGTGGCCTTTTTCTCTGCCTTAGATGAGTATGAG
66240 T C A GGATCAAAGTTGCCTTCAGCGTCCACTGTGGCCTTTTTCTCTGCCTTAGATGAGTATGAG
66240 IS [TC] GCCCCCCGACTATGTGGATGCCTCATACTCATCTAAGGCAGAGAAAAAGGCCACAGTGGA[TC]GCTGAAGGCAACTTT GATCCCCGGCCTGTGGAGACCCTCAAGTGAGGCCTGGGGGCTGGG
66270 I A AGCAGTGCTCAGTAGCAGGGAGATATGAGCTATTACCT
66270 P G A ATGACGTGGCAGACGGATCTTATGCTGTGTGAGY
66270 P A A CGCGCCGAGGAGATCTTATGCTGTGTGAGY
66270 T G A CCTCCTCACACAGCATAAGATCCGGTAATAGCTCATATCTCCCTGCTACTGAGCACTGCTGG
66270 T A A CCTCCTCACACAGCATAAGATCTGGTAATAGCTCATATCTCCCTGCTACTGAGCACTGCTGG
66270 IS [GA] CTTCACACTCAAAGAGTAGCACCAGCAGTGCTCAGTAGCAGGGAGATATGAGCTATTACC[GA]GATCTTATGCTGTGT GAGGAGGGCCCTGCCCTCACTATCCAGAGCCCGGAGTTCCTCTTG
66271 I S AGTGAGGGCAGGGCCCTCCTCACT
66271 P T S CGCGCCGAGGACAGCATAAGATCCGGTY
66271 P C S ATGACGTGGCAGACGCAGCATAAGATCCGGY
66271 T T S TATTACCGGATCTTATGCTGTGTGAGGAGGGCCCTGCCCTCACTAT
66271 T C S TATTACCGGATCTTATGCTGCGTGAGGAGGGCCCTGCCCTCACTAT
66271 IS [TC] GAGTAGCACCAGCAGTGCTCAGTAGCAGGGAGATATGAGCTATTACCGGATCTTATGCTG[TC]GTGAGGAGGGCCCT GCCCTCACTATCCAGAGCCCGGAGTTCCTCTTGGGTAAACTCATCC
66277 I S AGCAGAGTCTGAGGGTTTTCAGGCCTGACAA
66277 P G S ATGACGTGGCAGACCGCTGAGCGTCTAAGAY
66277 P A S CGCGCCGAGGTGCTGAGCGTCTAAGAAY
66277 T G S GAGATTCTTAGACGCTCAGCGTGTCAGGCCTGAAAACCCTCAGACTCTGCTCT
66277 T A S GAGATTCTTAGACGCTCAGCATGTCAGGCCTGAAAACCCTCAGACTCTGCTCT
66277 IS [GA] AAAGGGTACCTCACACAGCCCAGGTCTATTTCTTAGAATAGAGATTCTTAGACGCTCAGC[GA]TGTCAGGCCTGAAAA CCCTCAGACTCTGCTCTAAGCCCTCTGTCCTTTAGAGAGGAGGAA
66278 I S GTGTGTGTGTTATACAGATAGACAATCTAAAAAGAAATATAATAAGCACATGT
66278 P C S ATGACGTGGCAGACGCTGAGAATTAAGAGATTCACAY
66278 P G S CGCGCCGAGGCCTGAGAATTAAGAGATTCACAY
66278 T C AAAATGTGAATCTCTTAATTCTCAGCCATGTGCTTATTATATTTCTTTTTAGATTGTCTATCTGTATAACACACACACACA S C
66278 T G AAAATGTGAATCTCTTAATTCTCAGGCATGTGCTTATTATATTTCTTTTTAGATTGTCTATCTGTATAACACACACACACA S C
66278 IS [CG] TGATTTTTTTCACATTTAAGCAGGAATGCAATATAAAAATGTGAATCTCTTAATTCTCAG[CG]CATGTGCTTATTATATTT CTTTTTAGATTGTCTATCTGTATAACACACACACACACCT
67406 I A TGCTGTTAAGGATTTAAAAATAAACAGAAACATAGAGTATAAAATTTTCATTTCACTGTT
67406 P G A ATGACGTGGCAGACGCCCTCATTTAAAATTATAAGAATATAAGY
67406 P C A CGCGCCGAGGCCCCTCATTTAAAATTATAAGAATATAAGY
67406 T G TTTGCTTATATTCTTATAATTTTAAATGAGGGCACAGTGAAATGAAAATTTTATACTCTATGTTTCTGTTTATTTTTAAAT A CCTTAACAGCAA
67406 T C TTTGCTTATATTCTTATAATTTTAAATGAGGGGACAGTGAAATGAAAATTTTATACTCTATGTTTCTGTTTATTTTTAAAT A CCTTAACAGCAA
67406 IS [GC] TTGCTGTTAAGGATTTAAAAATAAACAGAAACATAGAGTATAAAATTTTCATTTCACTGT[GC]CCCTCATTTAAAATTATA AGAATATAAGCAAATAACATCCAATGTCAGAAGAGATTCAGG
67408 I A TCATCCCCTTTTGCATGTAAATTAAGCAATAACTTGGAAAAAT
67408 P A A CGCGCCGAGGAGTTAGTATGCAATAATTTTCATTTCY
67408 P C A ATGACGTGGCAGACCGTTAGTATGCAATAATTTTCATTTCY
67408 T A A GTTTGAAATGAAAATTATTGCATACTAACTTTTTTCCAAGTTATTGCTTAATTTACATGCAAAAGGGGATGAAA
67408 T C A GTTTGAAATGAAAATTATTGCATACTAACGTTTTTTCCAAGTTATTGCTTAATTTACATGCAAAAGGGGATGAAA
67408 IS [AC] TCTTTGCCTGTTTCTCTTTCATCCCCTTTTGCATGTAAATTAAGCAATAACTTGGAAAAA[AC]GTTAGTATGCAATAATTT TCATTTCAAACTGAAAGCACTCTAGTTCCCTTAATGCAAGGT
67410 I A AGGCCCAGCCCCCACCTGCA
67410 P T A CGCGCCGAGGTACCTCCCTGCTTCCTY
67410 P C A ATGACGTGGCAGACCACCTCCCTGCTTCCY
67410 T T A CTGCAGGAAGCAGGGAGGTAGCAGGTGGGGGCTGGGCCTCC
67410 T C A CTGCAGGAAGCAGGGAGGTGGCAGGTGGGGGCTGGGCCTCC
LOC51074

FIGURE 129D



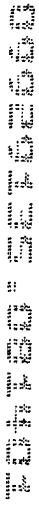
BTNL2

FIGURE 129D


67839 I S GAGGTGCGTGACCGGATCTCAGCAGTTA
67839 P A S CGCGCCGAGGTGTGTTCTGATCTGTGAAGY
67839 P G S ATGACGTGGCAGACCGTGTTCTGATCTGTGAAGY
67839 T A S CGAGCTTCACAGATCAGAACACAAACTGCTGAGATCCGGTCACGCACCTCTG
67839 T G S CGAGCTTCACAGATCAGAACACGAACTGCTGAGATCCGGTCACGCACCTCTG
67839 IS [AG] AACTGCACCCAGGTTAACACACCTGCCTATAGATGTCTCGAGCTTCACAGATCAGAACAC[AG]AACTGCTGAGATCCG GTCACGCACCTCTGCCCTCCAGGCCTCCTTGCCATGTCTCTCACC
67855 I S ACATGCTCTACCAGACATCAAAACTAGTTATGTTATACAAAACCA
67855 P G S ATGACGTGGCAGACCATTATAGTATTAATGGGGAGAGTAY
67855 P A S CGCGCCGAGGTATTATAGTATTAATGGGGAGAGTAGY
67855 T G S TTTTCTACTCTCCCCATTAATACTATAATGGGTTTTGTATAACATAACTAGTTTTGATGTCTGGTAGAGCATGTCT
67855 T A S TTTTCTACTCTCCCCATTAATACTATAATAGGTTTTGTATAACATAACTAGTTTTGATGTCTGGTAGAGCATGTCT
67855 IS [GA] TGGACATTATTATTTTACATTTTCCAATCTGTTTTCTACTCTCCCCATTAATACTATAAT[GA]GGTTTTGTATAACATAAC TAGTTTTGATGTCTGGTAGAGCATGTCTTCCTTTTGTATGCT
67856 I A TCGCACAGATCCAATGTTCCAATTTAAAGCTGTGACACTTT
67856 P C A ATGACGTGGCAGACCACAGTTTTTGCTCTTTCTGY
67856 P A A CGCGCCGAGGAACAGTTTTTGCTCTTTCTGY
67856 T C A ATAACAGAAAGAGCAAAAACTGTGAAGTGTCACAGCTTTAAATTGGAACATTGGATCTGTGCGACC
67856 T A A ATAACAGAAAGAGCAAAAACTGTTAAGTGTCACAGCTTTAAATTGGAACATTGGATCTGTGCGACC
67856 IS [CA] GCCAAATGGCTTACTCAAGGTCGCACAGATCCAATGTTCCAATTTAAAGCTGTGACACTT[CA]ACAGTTTTTGCTCTTT CTGTTATCCCACACTTGGTTTTCCAACCTGAATATGTGTGTGTG
67878 I A GCCCAGGTCAGGGCTCAGGGCT
67878 P C A ATGACGTGGCAGACCCTGCAGCAATTAGAGACY
67878 P A A CGCGCCGAGGACTGCAGCAATTAGAGACY
67878 T C A CTCAGTCTCTAATTGCTGCAGGGCCCTGAGCCCTGACCTGGGCCC
67878 T A A CTCAGTCTCTAATTGCTGCAGTGCCCTGAGCCCTGACCTGGGCCC
67878 IS [CA] AAGTTGTAAATGAGAGTATAGGGATGAAGAAGGGGAGGGGCCCAGGTCAGGGCTCAGGGC[CA]CTGCAGCAATTAGA GACTGAGCAGAGGAGGAGCAAGTGTGGGGAGAGAAGGAAAAGCCAG
67902 I S GCAAGAGGCGAATCTGGTTGGAAACCCTAGAATGT
67902 P G S ATGACGTGGCAGACCTTCCAGCTGCTTCCTY
67902 P T S CGCGCCGAGGATTCCAGCTGCTTCCTY
67902 T G S GCTAAGGAAGCAGCTGGAAGCATTCTAGGGTTTCCAACCAGATTCGCCTCTTGCTG
67902 T T S GCTAAGGAAGCAGCTGGAATCATTCTAGGGTTTCCAACCAGATTCGCCTCTTGCTG
67902 IS [GT] CCCTGTGAGCAGCAGATGGCCATTCCTTAGAGAGCATCAAGGCTAAGGAAGCAGCTGGAA[GT]CATTCTAGGGTTTC CAACCAGATTCGCCTCTTGCTGCCACATTTGGGGGCCCATTAATTT
67912 I S AGTTCTGAGGTCTCCAAAGCAAAGAATGTGCTCTGTT
67912 P C S ATGACGTGGCAGACGCAAATCATGTTTTAATAGGGAAY
67912 P T S CGCGCCGAGGACAAATCATGTTTTAATAGGGAATAY
67912 T C S ACTGTATTCCCTATTAAAACATGATTTGCACAGAGCACATTCTTTGCTTTGGAGACCTCAGAACTCC
67912 T T S ACTGTATTCCCTATTAAAACATGATTTGTACAGAGCACATTCTTTGCTTTGGAGACCTCAGAACTCC
67912 IS [CT] ACATAGCCTTAAGGGGCCCAAAGGCTTTTAGAACTGTATTCCCTATTAAAACATGATTT[GC]TACAGAGCACATTCTTT GCTTTGGAGACCTCAGAACTCCTTACTATAGGCCGGGCATGGTT
67926 I S TCACAGCAAAGGCTGTATGGTTTCTGCGCAT
67926 P T S CGCGCCGAGGAAGTTCAGAGTCTAGTGAATCY
67926 P C S ATGACGTGGCAGACGAGTTCAGAGTCTAGTGAATCY
67926 T T S CTCTGATTCACTAGACTCTGAACTTTGCGCAGAAACCATACAGCCTTTGCTGTGAAC
67926 T C S CTCTGATTCACTAGACTCTGAACTCTGCGCAGAAACCATACAGCCTTTGCTGTGAAC
67926 IS [TC] GGGCCTAAGAGATAAGGGTCAATGTCTGAGATATATCTCTGATTCACTAGACTCTGAACT[TC]TGCGCAGAAACCATAC AGCCTTTGCTGTGAACTTGTCTGAGTCTGCTTTGTGTCACTCTA
67939 I A AGAATCTGCACAGACTTTGGTAAATGTTGTGGACAGTACTCTT
67939 P G A ATGACGTGGCAGACGGTGTTATGCTGAGGAAGY
67939 P A A CGCGCCGAGGAGTGTTATGCTGAGGAAGY
67939 T G A ATACCTTCCTCAGCATAACACCAGAGTACTGTCCACAACATTTACCAAAGTCTGTGCAGATTCTTT
67939 T A A ATACCTTCCTCAGCATAACACTAGAGTACTGTCCACAACATTTACCAAAGTCTGTGCAGATTCTTT
67939 IS [GA] GAATCCCACCATTGAGAAAGAATCTGCACAGACTTTGGTAAATGTTGTGGACAGTACTCT[GA]GTGTTATGCTGAGGA AGGTATTTTTTTTTCAAATAATTTATATTTTTGGAAAATACACAG
67943 I A ACCTACCTAAGGGTGTTCTGTGCCAACAA
67943 P T A CGCGCCGAGGTACAGAGGTAGTTCTAGAATCTY
67943 P C A ATGACGTGGCAGACCACAGAGGTAGTTCTAGAATCY
67943 T T A GCAGAGATTCTAGAACTACCTCTGTATGTTGGCACAGAACACCCTTAGGTAGGTAT
67943 T C A GCAGAGATTCTAGAACTACCTCTGTGTGTTGGCACAGAACACCCTTAGGTAGGTAT
67943 IS [TC] AAGACGTAACTACTACAAATATTTTGAGAAATACCTACCTAAGGGTGTTCTGTGCCAACA[TC]ACAGAGGTAGTTCTAG AATCTCTGCTTTGTATGTGTGTATGTGTTTTAAGACTTTATT
67951 I S AGGGTCAGGGAAGGTAACAGGAAAGAAGATATTCTGAAAAGCT
67951 P T S CGCGCCGAGGAAAGAAGTAGGTACAGATGCY
67951 P G S ATGACGTGGCAGACCAAGAAGTAGGTACAGATGCY
67951 T T S TGTTGCATCTGTACCTACTTCTTTGCTTTTCAGAATATCTTCTTTCCTGTTACCTTCCCTGACCCTGA
67951 T G S TGTTGCATCTGTACCTACTTCTTGGCTTTTCAGAATATCTTCTTTCCTGTTACCTTCCCTGACCCTGA
67951 IS [TG] GCTAGGAAAGTGTTTATGTAAATGCTGAGAGTTACCCTGTTGCATCTGTACCTACTTCTT[TG]GCTTTTCAGAATATCT TCTTTCCTGTTACCTTCCCTGACCCTGATTCCTTTTGTCCTTTA
67964 I A CCCCCATCTTATAGATGAACCAATTTTTTCCCAAGTAGGGAAAAAACTTT
67964 P G A ATGACGTGGCAGACGGGAAAGTGTGTTCATTGTY
67964 P C A CGCGCCGAGGCGGAAAGTGTGTTCATTGTY
67964 T G A CCCAACAATGAACACACTTTCCCAAGTTTTTTCCCTACTTGGGAAAAAATTGGTTCATCTATAAGATGGGGGTA
67964 T C A CCCAACAATGAACACACTTTCCGAAGTTTTTTCCCTACTTGGGAAAAAATTGGTTCATCTATAAGATGGGGGTA
67964 IS [GC] TTCTGTTATTACCCCCATCTTATAGATGAACCAATTTTTTCCCAAGTAGGGAAAAAACTT[GC]GGAAAGTGTGTTCATTG TTGGGGACCCACAATAGCTTCCCCAAACTGCTGAATCCATTCT
67969 I A TCAATTTTTACCTTTAATTCTTTCATCTGGAATTTTACTTGGTTACAGAATTACATT
67969 P G A ATGACGTGGCAGACGATGAACTTTTAACACCTTTCAAY
67969 P A A CGCGCCGAGGAATGAACTTTTAACACCTTTCAAY
67969 T G A AGTTTTGAAAGGTGTTAAAAGTTCATCATGTAATTCTGTAACCAAGTAAAATTCCAGATGAAAGAATTAAAGGTAAAAAT TGAGC
67969 T A A AGTTTTGAAAGGTGTTAAAAGTTCATTATGTAATTCTGTAACCAAGTAAAATTCCAGATGAAAGAATTAAAGGTAAAAAT TGAGC
67969 IS [GA] AAGCTCAATTTTTACCTTTAATTCTTTCATCTGGAATTTTACTTGGTTACAGAATTACAT[GA]ATGAACTTTTAACACCTT TCAAAACTTTAACTTAATTTCCAACCATTGTTTTTTTTTTTT
68028 I A CTCGACAAACTTTTGCCACCAAACAGCCACCT
68028 P C A ATGACGTGGCAGACCGATAGTGAAACACTCTCAAY
68028 P A A CGCGCCGAGGAGATAGTGAAACACTCTCAAGY
68028 T C A CAAGCTTGAGAGTGTTTCACTATCGGGTGGCTGTTTGGTGGCAAAAGTTTGTCGAGGG
68028 T A A CAAGCTTGAGAGTGTTTCACTATCTGGTGGCTGTTTGGTGGCAAAAGTTTGTCGAGGG

			CAAAGAAACCAGGCCTTTCCTACCCTGCCCTCGACAAACTTTTGCCACCAAACAGCCACC[CA]GATAGTGAAACACTC	
68028 IS	[CA]		TCAAGCTTGGAGCATGGGCCAAATGGGCTGAGGACTGTTTCCCGG	
68029 I		A	AAAAGAAGTGACAATGTAGGATACCCATTCATCAGCAAATATTTAT	
68029 P	C	A	ATGACGTGGCAGACCTGTGAGCAGGACAATGY	
68029 P	A	A	CGCGCCGAGGATGTGAGCAGGACAATGY	
68029 T	C	A	AGCACATTGTCCTGCTCACAGTAAATATTTGCTGATGAATGGGTATCCTACATTGTCACTTCTTTTTT	
68029 T	A	A	AGCACATTGTCCTGCTCACATTAAATATTTGCTGATGAATGGGTATCCTACATTGTCACTTCTTTTTT	
			TCCGTCTCAAAAAAAAAAAGAAGTGACAATGTAGGATACCCATTCATCAGCAAATATTTA[CA]TGTGAGCAGGACAATG	
68029 IS	[CA]		TGCTAAGTCCATAGACTGCAAAGAGGAGTGAGGCTGGGTTCCCA	
68084 I		A	TGTTCAGAATCAGGGAAGTACTTAGTTACACAGTAGTGTTTTT	
68084 P	A	A	CGCGCCGAGGATAGCTGTTGAGAGCTGAY	
68084 P	G	A	ATGACGTGGCAGACGTAGCTGTTGAGAGCTGY	
68084 T	A	A	CAATTCAGCTCTCAACAGCTATAAAACACTACTGTGTAACTAAGTACTTCCCTGATTCTGAACAAC	
68084 T	G	A	CAATTCAGCTCTCAACAGCTACAAAACACTACTGTGTAACTAAGTACTTCCCTGATTCTGAACAAC	
			TTAGGTGTTATTATCTGTTGTTCAGAATCAGGGAAGTACTTAGTTACACAGTAGTGTTTT[AG]TAGCTGTTGAGAGCTG	
68084 IS	[AG]		AATTGCCGGCATTGATCACAAGTGAGACTGGAAAAACAACCCGG	
68091 I		S	CAATGGCAAGCAATTTGACACTAGTCATAGCCAC	
68091 P	A	S	CGCGCCGAGGTGGCGCTTATAACCTTTCY	
68091 P	T	S	ATGACGTGGCAGACAGGCGCTTATAACCTTTCY	
68091 T	A	S	AAAAGAAAGGTTATAAGCGCCATGGCTATGACTAGTGTCAAATTGCTTGCCATTGTT	
68091 T	T	S	AAAAGAAAGGTTATAAGCGCCTTGGCTATGACTAGTGTCAAATTGCTTGCCATTGTT	
			GGGCCACAGAGCAAGACCCTATTTCGAAACAACAACAACAAAAGAAAGGTTATAAGCGC[AT]TGGCTATGACTAGTG	
68091 IS	[AT]		TCAAATTGCTTGCCATTGTTTTAAGAAAGCCAGATACCTGGATTG	
68096 I		S	GCCTGTAATCCTAGCTACTCGGGAGGCTGAT	
68096 P	C	S	ATGACGTGGCAGACGGCAGGAGAATCGCTY	
68096 P	G	S	CGCGCCGAGGCGCAGGAGAATCGCTY	
68096 T	C	S	TTCAAGCGATTCTCCTGCCTCAGCCTCCCGAGTAGCTAGGATTACAGGCGC	
68096 T	G	S	TTCAAGCGATTCTCCTGCGTCAGCCTCCCGAGTAGCTAGGATTACAGGCGC	
			CAGTGGCACAACCTTGGCTCATTGCAACCTCCGCCTCCCGGGTTCAAGCGATTCTCCTGC[CG]TCAGCCTCCCGAGT	
68096 IS	[CG]		AGCTAGGATTACAGGCGCCCACCACTACGCCCGGCTAATTTTTGTA	
68134 I		S	GCATTCACGTATGTGTGGGGACGCTCATCAT	
68134 P	T	S	CGCGCCGAGGACAAAGCCAGAAACAATGAY	
68134 P	C	S	ATGACGTGGCAGACGCAAAGCCAGAAACAATGY	
68134 T	T	S	GCCTTCATTGTTTCTGGCTTTGTTGATGAGCGTCCCCACACATACGTGAATGCGG	
68134 T	C	S	GCCTTCATTGTTTCTGGCTTTGCTGATGAGCGTCCCCACACATACGTGAATGCGG	
			ATGTGAAAGGCGTTTTGTAAACTGTGAAATCTCCATAAGCCTTCATTGTTTCTGGCTTTG[TC]TGATGAGCGTCCCCAC	
68134 IS	[TC]		ACATACGTGAATGCGGTCGCCCTGAACGTTTCCCCACAAATCCA	
68159 I		A	GGCATAATACTGTCAGGGGAAGAAAAAGAACCACATGCTT	
68159 P	C	A	CGCGCCGAGGCTGTTACAAGACACAGGTTY	
68159 P	G	A	ATGACGTGGCAGACGTGTTACAAGACACAGGTTY	
68159 T	C	A	CAACAACCTGTGTCTTGTAACAGAGCATGTGGTTCTTTTTCTTCCCCTGACAGTATTATGCCTA	
68159 T	G	A	CAACAACCTGTGTCTTGTAACACAGCATGTGGTTCTTTTTCTTCCCCTGACAGTATTATGCCTA	
			CATCACATAAGAATACAGGTAGGCATAATACTGTCAGGGGAAGAAAAAGAACCACATGCT[CG]TGTTACAAGACACAG	
68159 IS	[CG]		GTTGTTGGCTTTCAGCCAAAATATGCATGGATGGAGGGGCTGTTT	
68218 I		S	CACACACACACACAGAGAGACACATTCACATTAACACACAT	
68218 P	T	S	CGCGCCGAGGAACAATGATGCAAGAAGTTTTY	
68218 P	G	S	ATGACGTGGCAGACCACAATGATGCAAGAAGTTTTY	
68218 T	T	S	TTCAAAAACTTCTTGCATCATTGTTTGTGTGTTAATGTGAATGTGTCTCTCTGTGTGTGTGTGTGTG	
68218 T	G	S	TTCAAAAACTTCTTGCATCATTGTGTGTGTGTTAATGTGAATGTGTCTCTCTGTGTGTGTGTGTGTG	
			GTAATTAAATAGCAGTACACTGAAGTGTCTATCAGCTTCAAAAACTTCTTGCATCATTGTTGTGTGTGTTAATGTGAAT	
68218 IS	[TG]		GTGTCTCTCTGTGTGTGTGTGTGTCTGTGTCTGTGTATA	
68233 I		S	GGGCAGGGCCAGGGAGGCCT	
68233 P	C	S	ATGACGTGGCAGACGGCGTGGACTTCACY	
68233 P	T	S	CGCGCCGAGGAGCGTGGACTTCACCY	
68233 T	C	S	GGGTGGTGAAGTCCACGCCGGCCTCCCTGGCCCTGCCCTT	
68233 T	T	S	GGGTGGTGAAGTCCACGCTGGCCTCCCTGGCCCTGCCCTT	
			ACTTATTCACGGGCATCCAGATCATCTGCCTGGCAGTGCTGTGGGTGGTGAAGTCCACGC[CT]GGCCTCCCTGGCCC	
68233 IS	[CT]		TGCCCTTCGTCCTCATCCTCACTGTGCCGCTGCGGCGCGTCCTGCT	SLC4A1
68249 I		A	GCAATGCGAGGAATGTGGTGGCCACGA	
68249 P	C	A	ATGACGTGGCAGACCGATGGAGCTGGCCY	
68249 P	T	A	CGCGCCGAGGTGATGGAGCTGGCCY	
68249 T	C	A	CTCCGGCCAGCTCCATCGCGTGGCCACCACATTCCTCGCATTGCGG	
68249 T	T	A	CTCCGGCCAGCTCCATCACGTGGCCACCACATTCCTCGCATTGCGG	
			ACAGGGGCTAGCCACCTGTACTACGGTGCCGACCGCAATGCGAGGAATGTGGTGGCCACG[CT]GATGGAGCTGGCC	
68249 IS	[CT]		GGAGGACAGGTCAGGTGAGGGGGCCGACCCCTGCGGGGCTCAGGGCT	AFAP
68259 I		A	CTGGTGCAGAAATAAACATGGCAAGAGTGGATTCCAGA	
68259 P	T	A	CGCGCCGAGGTTGTGTCGGGTCACAY	
68259 P	C	A	ATGACGTGGCAGACCTGTGTCGGGTCACAY	
68259 T	T	A	GAGCTGTGACCCGACACAACTGGAATCCACTCTTGCCATGTTTATTTCTGCACCAGGT	
68259 T	C	A	GAGCTGTGACCCGACACAGCTGGAATCCACTCTTGCCATGTTTATTTCTGCACCAGGT	
			AAAGCTATGGAAGTTCCCTGTACCTGGTGCAGAAATAAACATGGCAAGAGTGGATTCCAG[TC]TGTGTCGGGTCACAG	
68259 IS	[TC]		CTCAAAAGAGGATTTTCCTATGGAAATTGTTATGCTGGTGACTGA	
68274 I		A	GTCCTATCTGCTCATTGCAACTCCCAGCGAAA	
68274 P	T	A	CGCGCCGAGGTGAGTTTTCAGCGAAGGY	
68274 P	C	A	ATGACGTGGCAGACCGAGTTTTCAGCGAAGGY	
68274 T	T	A	TCTGCCTTCGCTGAAAACTCATTCGCTGGGAGTTGCAATGAGCAGATAGGACAC	
68274 T	C	A	TCTGCCTTCGCTGAAAACTCGTTCGCTGGGAGTTGCAATGAGCAGATAGGACAC	
			GCCCTCCCCTTCAGGCGAATTCTGGGTGTGTCCTATCTGCTCATTGCAACTCCCAGCGAA[TC]GAGTTTTCAGCGAAG	
68274 IS	[TC]		GCAGACTTTCTGACCTGTTCTTCAAACTGCACTGGTCTTTTAAAA	
68315 I		S	CACACCCTTCAGAGAGGACACGTCCCCT	
68315 P	C	S	ATGACGTGGCAGACGTACCTCTCCCACTCTCY	
68315 P	T	S	CGCGCCGAGGATACCTCTCCCACTCTCY	
68315 T	C	S	TGGGGAGAGTGGGAGAGGTACGGGGACGTGTCCTCTCTGAAGGGTGTGCC	
68315 T	T	S	TGGGGAGAGTGGGAGAGGTATGGGGACGTGTCCTCTCTGAAGGGTGTGCC	
			TCCCTCTGCAGGATGGAGGCAGCCAGAGGCAGCCACAGTGTGGGGAGAGTGGGAGAGGTA[CT]GGGGACGTGTCCT	
68315 IS	[CT]		CTCTGAAGGGTGTGCCTGTGAATTTTAGAAAATGGATTCTCTAGCAA	
68344 I		A	TGCGCAGCTAGGACTGGGAGCTGTT	
68344 P	G	A	ATGACGTGGCAGACGCCCTCCCACGTCY	
68344 P	C	A	CGCGCCGAGGCCCCTCCCACGTCY	
68344 T	G	A	CAAAGACGTGGGAGGGCACAGCTCCCAGTCCTAGCTGCGCAGA	
68344 T	C	A	CAAAGACGTGGGAGGGGACAGCTCCCAGTCCTAGCTGCGCAGA	
			GCGGAGGCCTGGGCTGGAGGGGCGGCCGCGGGGTTCTGCGCAGCTAGGACTGGGAGCTGT[GC]CCTCCCACGTC	
68344 IS	[GC]		TTTGCCCTGACTCGCTTTCCCTTGCTGCGCAGTGAGGCTCACTGCAAC	
68350 I		S	CATGCCAGGACAGTCTCAATGTATGCTACACCTTTCTT	
68350 P	T	S	CGCGCCGAGGATTTGATCAATATACTGCCATTTGY	

FIGURE 129D



68350 P C S ATGACGTGGCAGACGTTTGATCAATATACTGCCATTTY

68350 T T S AGTGCAAATGGCAGTATATTGATCAAATAGAAAGGTGTAGCATACATTGAGACTGTCCTGGCATGCA

68350 T C S AGTGCAAATGGCAGTATATTGATCAAACAGAAAGGTGTAGCATACATTGAGACTGTCCTGGCATGCA

68350 IS [TC] TTCCAGAAACTCCTCAATACATGGGGACAGTAAAGTGCAAATGGCAGTATATTGATCAAA[TC]AGAAAGGTGTAGCATA
CATTGAGACTGTCCTGGCATGCATAGTTAACTTAATGATTTGTT

68361 I S AGCTGGGAACAGATTAACTAGGTTGCTAAAGGAACAAATATTTCTTCCT

68361 P C S ATGACGTGGCAGACGTGCACTGAAGACAGGY

68361 P T S CGCGCCGAGGATGCACTGAAGACAGGY

68361 T C S CCTGCCTGTCTTCAGTGCACGGAAGAAATATTTGTTCCTTTAGCAACCTAGTTAATCTGTTCCCAGCTGA

68361 T T S CCTGCCTGTCTTCAGTGCATGGAAGAAATATTTGTTCCTTTAGCAACCTAGTTAATCTGTTCCCAGCTGA

68361 IS [CT] GAGCTTAACCTCTCCACTGCAGGTACGTTATCTGTTGTCTTCCTGCCTGTCTTCAGTGCA[CT]GGAAGAAATATTTGTT
CCTTTAGCAACCTAGTTAATCTGTTCCCAGCTGAAGCCCGTCAG

68370 I A TGATGAAAGGTAAAATACTAATGGTGCTATATAAACATGACATTCTCTAAATTGAATAC

68370 P G A ATGACGTGGCAGACGAGTGTGCAATTTTCATGGY

68370 P T A CGCGCCGAGGTAGTGTGCAATTTTCATGGY

68370 T G A AAAGCCATGAAAATTGCACACTCTATTCAATTTAGAGAATGTCATGTTTATATAGCACCATTAGTATTTTACCTTTCATC
ATG

68370 T T A AAAGCCATGAAAATTGCACACTATATTCAATTTAGAGAATGTCATGTTTATATAGCACCATTAGTATTTTACCTTTCATC
ATG

68370 IS [GT] CATGATGAAAGGTAAAATACTAATGGTGCTATATAAACATGACATTCTCTAAATTGAATA[GT]AGTGTGCAATTTTCATG
GCTTTGTTTTAAAATTTAATGCTTGAGAATAATCATTTTATTT

68386 I A CTTCTGAGTAGCCATCAAACTAAATTCTTCAAATTGCAGAGC

68386 P A A CGCGCCGAGGATGTTAATCTTCAAGCTAAAGTTTTY

68386 P T A ATGACGTGGCAGACTTGTTAATCTTCAAGCTAAAGTTTY

68386 T A A CTAAAAAACTTTAGCTTGAAGATTAACATCTCTGCAATTTGAAGAATTTAGTTTGATGGCTACTCAGAAGAT

68386 T T A CTAAAAAACTTTAGCTTGAAGATTAACAACTCTGCAATTTGAAGAATTTAGTTTGATGGCTACTCAGAAGAT

68386 IS [AT] GTGAAATTACTTACTGAATCTTCTGAGTAGCCATCAAACTAAATTCTTCAAATTGCAGAG[AT]TGTTAATCTTCAAGCTA
AAGTTTTTTAGGTTTATTTAAAGCAAAATTAAAATTGAAACAA

68390 I S AAATAGATTGATTTTAGATGATTGTTCATCCACACCATTTTATATAGATACTAGTATTAAT

68390 P C S ATGACGTGGCAGACGATCAAAAGCTTCCTCTTCCY

68390 P G S CGCGCCGAGGCATCAAAAGCTTCCTCTTCCY

68390 T C S CTGAGGAAGAGGAAGCTTTTGATCTTAATACTAGTATCTATATAAAATGGTGTGGATGAACAATCATCTAAAATCAATCT
ATTT

68390 T G S CTGAGGAAGAGGAAGCTTTTGATGTTAATACTAGTATCTATATAAAATGGTGTGGATGAACAATCATCTAAAATCAATC
TATTT

68390 IS [CG] TTTAATCATTATTGGATCATCTAAAGTAGAAGCTGTCCTGAGGAAGAGGAAGCTTTTGAT[CG]TTAATACTAGTATCTAT
ATAAAATGGTGTGGATGAACAATCATCTAAAATCAATCTATTT FLJ21439

68399 I S GGGATATACCAGGTAGGTTACCTGATGAAAATATGCTTT

68399 P T S CGCGCCGAGGAGCCAACAATCCTATGTACY

68399 P C S ATGACGTGGCAGACGGCCAACAATCCTATGTACY

68399 T T S GGTTGTACATAGGATTGTTGGCTAAGCATATTTTCATCAGGTAACCTACCTGGTATATCCCAT

68399 T C S GGTTGTACATAGGATTGTTGGCCAAGCATATTTTCATCAGGTAACCTACCTGGTATATCCCAT

68399 IS [TC] CAAAAGTAAGCAGAGAAGTCTCTGTTCCCTATAACAGAGGTTGTACATAGGATTGTTGGC[TC]AAGCATATTTTCATCA
GGTAACCTACCTGGTATATCCCATTCATGAAGTGCACAGGTATA

68407 I S TGTTTTGCCTCATCGTGTGCTAGGAAATAATGCAGAAAAAACTC

68407 P A S CGCGCCGAGGTATGAAAACATTCAATGTAGAAGACY

68407 P T S ATGACGTGGCAGACAATGAAAACATTCAATGTAGAAGAY

68407 T A S AAAAGTCTTCTACATTGAATGTTTTCATAAGTTTTTTCTGCATTATTTCCTAGCACACGATGAGGCAAAACATT

68407 T T S AAAAGTCTTCTACATTGAATGTTTTCATTAGTTTTTTCTGCATTATTTCCTAGCACACGATGAGGCAAAACATT

68407 IS [AT] CTTTCCTTCATTAAATTCTCTGATATTTTCCTAAAAGTCTTCTACATTGAATGTTTTCAT[AT]AGTTTTTTCTGCATTATTT
CCTAGCACACGATGAGGCAAAACATTTTACTGAAAACCCTG

68450 I A GAGGAATTACGGGACATAACAAGGATCCATGCAAGTTTCAT

68450 P A A CGCGCCGAGGACTCAAAAGTTGGGTTAATAATTGY

68450 P G A ATGACGTGGCAGACGCTCAAAAGTTGGGTTAATAATY

68450 T A A TAAGCAATTATTAACCCAACTTTTGAGTTGAAACTTGCATGGATCCTTGTTATGTCCCGTAATTCCTCTG

68450 T G A TAAGCAATTATTAACCCAACTTTTGAGCTGAAACTTGCATGGATCCTTGTTATGTCCCGTAATTCCTCTG

68450 IS [AG] AAAATAAATTCCTTGATTCAGAGGAATTACGGGACATAACAAGGATCCATGCAAGTTTCA[AG]CTCAAAAGTTGGGTTA
ATAATTGCTTAGAAATGCAGGTAGAAGCTCCACATCTATCACAA

68452 I S CAAAGCAGCAGGGAGGGGCCTGTTGT

68452 P T S CGCGCCGAGGACCAGTGTGGAAGGGY

68452 P C S ATGACGTGGCAGACGCCAGTGTGGAAGGGY

68452 T T S AGTGCCCTTCCACACTGGTCAACAGGCCCCTCCCTGCTGCTTTGGA

68452 T C S AGTGCCCTTCCACACTGGCCAACAGGCCCCTCCCTGCTGCTTTGGA

68452 IS [TC] GGCTTCAACTCTGTTCTGCAGATTCTCCTTCAGTAAATTGGGAGTGCCCTTCCACACTGG[TC]CAACAGGCCCCTCCC
TGCTGCTTTGGATCACCACCTTAAGTCAAACACAATTCAAGTGCC

68586 I S GCATTTTCTGCTCGCGGTGATAATGTAAAATTTTAAATTTGCTTAAATAACACTTCTA

68586 P A S CGCGCCGAGGTATATTTCTAAAAGCCTCAAACTTCY

68586 P G S ATGACGTGGCAGACCATATTTCTAAAAGCCTCAAACTTY

68586 T A S TTTGGAAGTTTGAGGCTTTTAGAAATATAAGAAGTGTTATTTAAGCAAATTTAAAATTTTACATTATCACCGCGAGCAGA
AAATGCAA

68586 T G S TTTGGAAGTTTGAGGCTTTTAGAAATATGAGAAGTGTTATTTAAGCAAATTTAAAATTTTACATTATCACCGCGAGCAGA
AAATGCAA

68586 IS [AG] AAGTTATGGAATCCATATTAGGAAAATTCAAGTTTGGAAGTTTGAGGCTTTTAGAAATAT[AG]AGAAGTGTTATTTAAGC
AAATTTAAAATTTTACATTATCACCGCGAGCAGAAAATGCAAG

68736 I A TGAACTTCAATGCTTCTCTCCTCCCTGAAAGGACGT

68736 P A A CGCGCCGAGGATGTCTTATAGTCTCCCTAGTTY

68736 P G A ATGACGTGGCAGACGTGTCTTATAGTCTCCCTAGTY

68736 T A A GCTAAACTAGGGAGACTATAAGACATCGTCCTTTCAGGGAGGAGAGAAGCATTGAAGTTCAGT

68736 T G A GCTAAACTAGGGAGACTATAAGACACCGTCCTTTCAGGGAGGAGAGAAGCATTGAAGTTCAGT

68736 IS [AG] CCTATATTTCATCATATCAACTCACTGAACTTCAATGCTTCTCTCCTCCCTGAAAGGACG[AG]TGTCTTATAGTCTCCCT
AGTTTAGCATCTAAGTTTCCACAAAGGCTTCCAAAACCTCTTG

68744 I S GGGGTGGCTCTAGAGAGCAAATGGTCAAAACTTCTAGA

68744 P G S ATGACGTGGCAGACCGCTAAATAGAGCTTTAACATGY

68744 P A S CGCGCCGAGGTGCTAAATAGAGCTTTAACATGTY

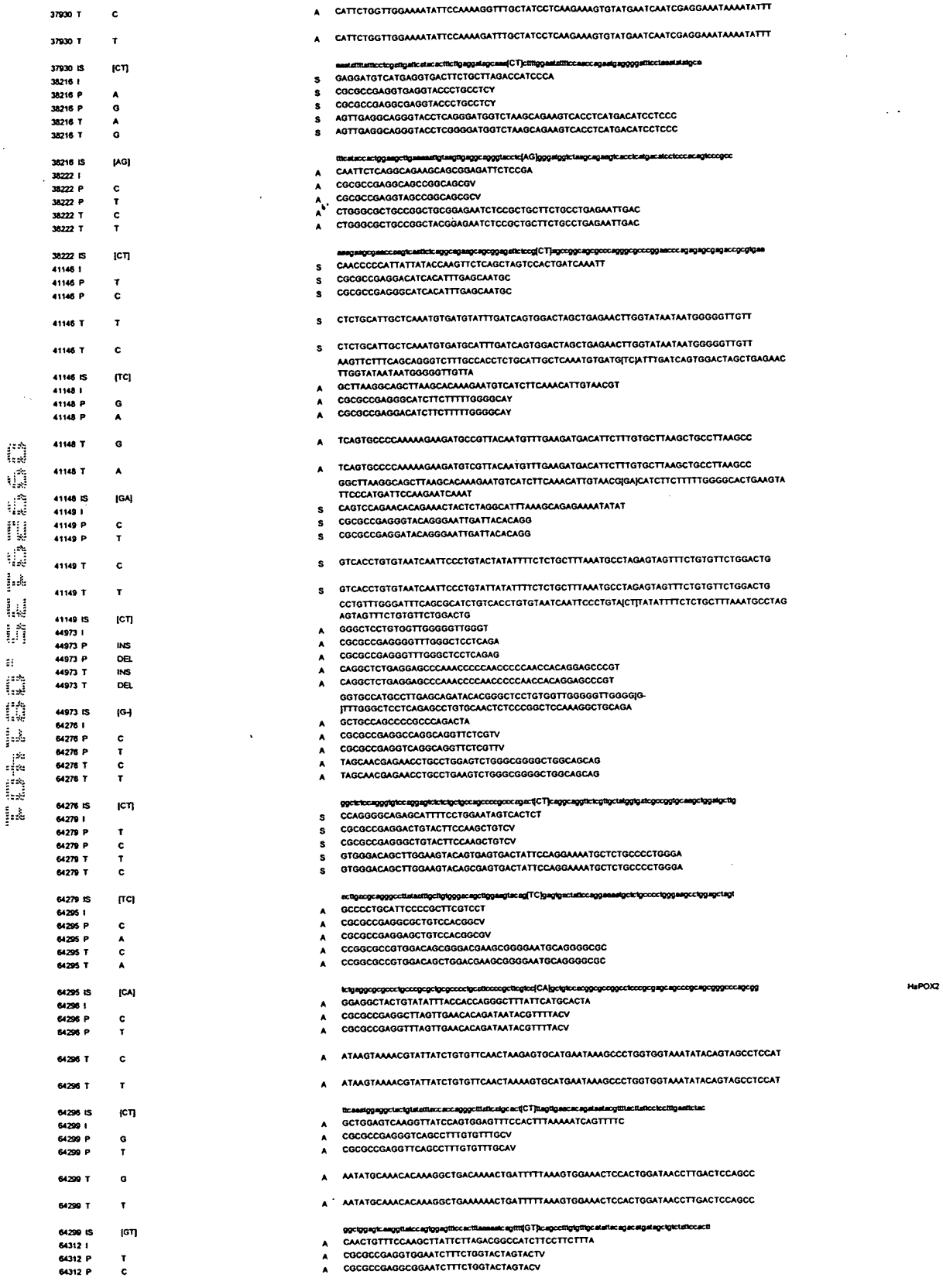
68744 T G S TGAGACATGTTAAAGCTCTATTTAGCGCTAGAAGTTTTGACCATTTGCTCTCTAGAGCCACCCCAT

68744 T A S TGAGACATGTTAAAGCTCTATTTAGCACTAGAAGTTTTGACCATTTGCTCTCTAGAGCCACCCCAT

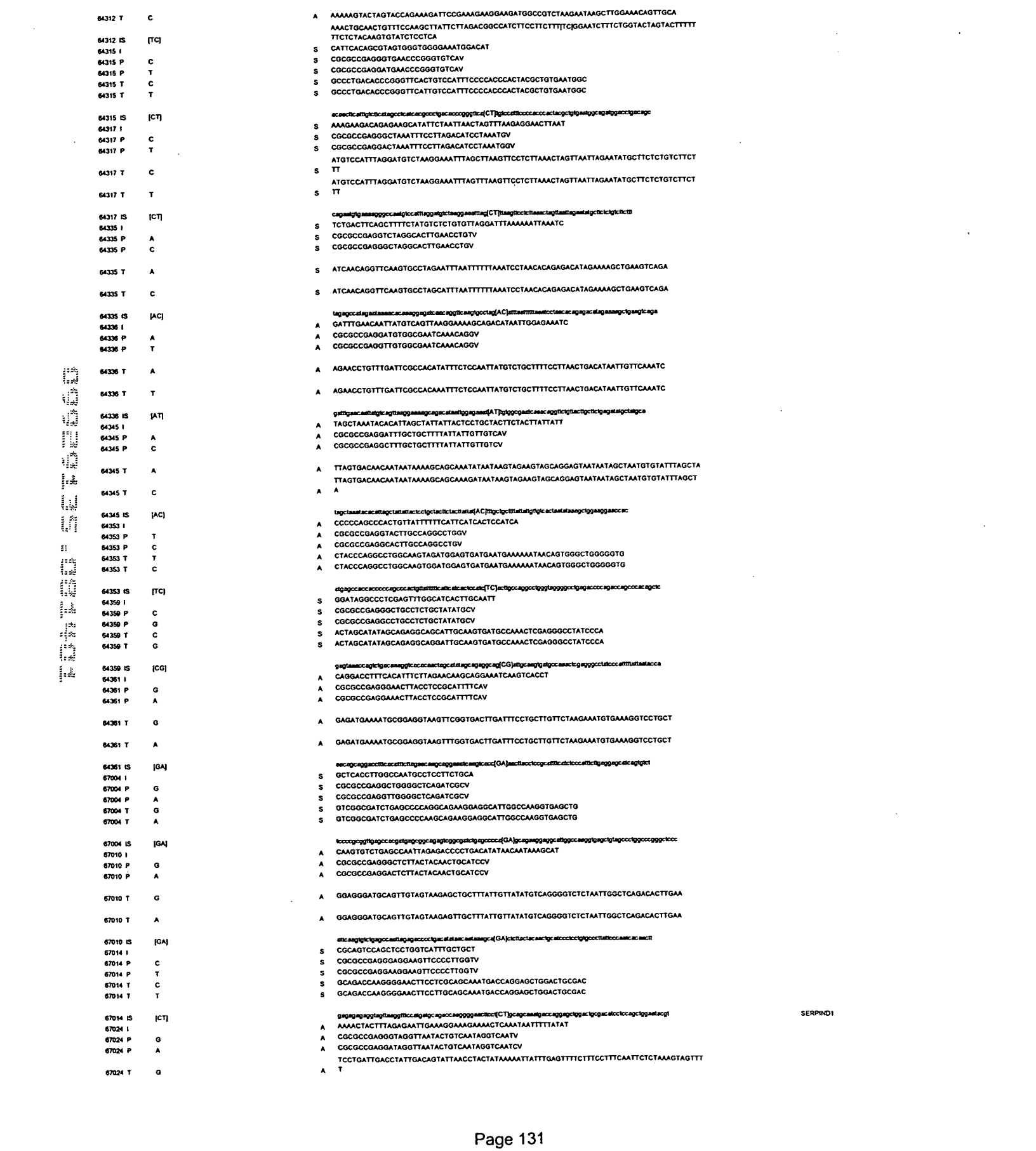
68744 IS [GA] AAGCCATCTGAGGCTTCTCTATTTTGCTAGTATCTGAGACATGTTAAAGCTCTATTTAGC[GA]CTAGAAGTTTTGACCA
TTTGCTCTCTAGAGCCACCCCATCTGCTCTGGAGCCTGTGGAGG

68783 I S TGACGGGCCACTCCCAACCATTCCTTT

68763 P	C	S	ATGACGTGGCAGACGTACTACCCTAGGTCTTCAAY	
68763 P	T	S	CGCGCCGAGGATACTACCCTAGGTCTTCAAAY	
68763 T	C	S	TACCTTTGAAGACCTAGGGTAGTACAAGGAATGGTTGGGAGTGGCCCGTCAGG	
68763 T	T	S	TACCTTTGAAGACCTAGGGTAGTATAAGGAATGGTTGGGAGTGGCCCGTCAGG	
			TGGCATTCATCTTCAATAATGTAAGTGTATGTGCATTACCTTTGAAGACCTAGGGTAGTA[CT]AAGGAATGGTTGGGAG	
68763 IS	[CT]		TGGCCCGTCAGGACTAATCTCCTCTACCTGCAGTGTCCCAGGAC	
68833 I		A	CCACTGGAAATGAAGGGGCCCTATAGCTTCTGAGC	
68833 P	T	A	CGCGCCGAGGTTCATCCAGTGAGGAGTAAY	
68833 P	G	A	ATGACGTGGCAGACGTCATCCAGTGAGGAGTAY	
68833 T	T	A	AATATTACTCCTCACTGGATGAACTCAGAAGCTATAGGGCCCCTTCATTTCCAGTGGCT	
68833 T	G	A	AATATTACTCCTCACTGGATGACCTCAGAAGCTATAGGGCCCCTTCATTTCCAGTGGCT	
			TATAATGATAAAACTTCAGATATCAGCCACTGGAAATGAAGGGGCCCTATAGCTTCTGAG[TG]TCATCCAGTGAGGAG	
68833 IS	[TG]		TAATATTAAAAATAATAATGATTATCACTTATTGGATATCTATGA	
68889 I		A	GCCCATTTGAAATAGCAGTGGATTAAGACTTGCTTTTCAAGCTTAAAATT	
68889 P	G	A	ATGACGTGGCAGACGTTCTGTATATGTGACATGATACAY	
68889 P	A	A	CGCGCCGAGGATTCTGTATATGTGACATGATACAY	
68889 T	G	A	CTATTGTATCATGTCACATATACAGAACATTTTAAGCTTGAAAAGCAAGTCTTAATCCACTGCTATTTCAAATGGGCTG	
68889 T	A	A	CTATTGTATCATGTCACATATACAGAATATTTTAAGCTTGAAAAGCAAGTCTTAATCCACTGCTATTTCAAATGGGCTG	
			AATTTTATACAGCCCATTTGAAATAGCAGTGGATTAAGACTTGCTTTTCAAGCTTAAAAT[GA]TTCTGTATATGTGACAT	
68889 IS	[GA]		GATACAATAGAAGCAGTTCTCAGTGTATAAATGCTGTTTAAAA	
68906 I		A	ACAGTGCTCATCTGGTCAATGATTTTATCTGTGGAGGTCTT	
68906 P	A	A	CGCGCCGAGGATTGGGTGCCATGTTGY	
68906 P	G	A	ATGACGTGGCAGACGTTGGGTGCCATGTTGY	
68906 T	A	A	ATCCCAACATGGCACCCAATAGACCTCCACAGATAAAATCATTGACCAGATGAGCACTGTGA	
68906 T	G	A	ATCCCAACATGGCACCCAACAGACCTCCACAGATAAAATCATTGACCAGATGAGCACTGTGA	
			TCTGCCTACCGCAACGACTCACAGTGCTCATCTGGTCAATGATTTTATCTGTGGAGGTCT[AG]TTGGGTGCCATGTTG	
68906 IS	[AG]		GGATTCTTGTTTTTTCCAATTAATGTTGTAAAAACTCGCATACAG	
68924 I		A	GAGGTGTTTGGTGGAAGGCTCTCTTTCTCAGCA	
68924 P	C	A	ATGACGTGGCAGACCTCTGAGAGGTTTATCACACY	
68924 P	T	A	CGCGCCGAGGTTCTGAGAGGTTTATCACACY	
68924 T	C	A	ATCAGTGTGATAAACCTCTCAGAAGCTGAGAAAGAGAGCCTTCCACCAAACACCTCAC	
68924 T	T	A	ATCAGTGTGATAAACCTCTCAGAAGCTGAGAAAGAGAGCCTTCCACCAAACACCTCAC	
			TGACTGAGGGAGGTTGGAGTGTACAAGTGAGGTGTTTGGTGGAAGGCTCTCTTTCTCAGC[CT]TCTGAGAGGTTTAT	
68924 IS	[CT]		CACACTGATATCTTCATTGGACCTAGCTGGCCTGTCAGATTCCAAC	
68932 I		S	ACTGCTACTGTTTTTGGCTGCATGGCATTGAACTTCC	
68932 P	T	S	CGCGCCGAGGAGGCTCTGTGTTTGGAY	
68932 P	A	S	ATGACGTGGCAGACTGGCTCTGTGTTTGGAY	
68932 T	T	S	CATTTCCAAACACAGAGCCTGAAGTTCAATGCCATGCAGCCAAAAACAGTAGCAGTAG	
68932 T	A	S	CATTTCCAAACACAGAGCCAGAAGTTCAATGCCATGCAGCCAAAAACAGTAGCAGTAG	
			GTGGGCTTTGTCTCACATTTTGGAAATGTCATAAGATATGACATTTCCAAACACAGAGCC[TA]GAAGTTCAATGCCATG	
68932 IS	[TA]		CAGCCAAAAACAGTAGCAGTAGTAGTAGTAGTAGTAGTAGTAGT	
68941 I		S	ACTGAATCCTTAAGACTTCTGACTTCCCTAAGACAGACTTGAAACTA	
68941 P	A	S	CGCGCCGAGGTAATATTGCAAATTGTCTCATCATY	
68941 P	G	S	ATGACGTGGCAGACCAATATTGCAAATTGTCTCATCAY	
68941 T	A	S	TAAAATGATGAGACAATTTGCAATATTAAGTTTCAAGTCTGTCTTAGGGAAGTCAGAAGTCTTAAGGATTCAGTGG	
68941 T	G	S	TAAAATGATGAGACAATTTGCAATATTGAGTTTCAAGTCTGTCTTAGGGAAGTCAGAAGTCTTAAGGATTCAGTGG	
			AAAGGCAAATTTTGAAAATTATATGTAGGACTTTAAAATGATGAGACAATTTGCAATATT[AG]AGTTTCAAGTCTGTCTT	
68941 IS	[AG]		AGGGAAGTCAGAAGTCTTAAGGATTCAGTGGTGGAGTGGTGTT	
69056 I		A	TGAACTGCTCTTAAGGAGTATGACCCGCCTCTGTATTCT	
69056 P	G	A	ATGACGTGGCAGACGGCCCAGAAAATTCCATY	
69056 P	A	A	CGCGCCGAGGAGCCCAGAAAATTCCATCY	
69056 T	G	A	CCAAGATGGAATTTTCTGGGCCGAATACAGAGGCGGGTCATACTCCTTAAGAGCAGTTCAGA	
69056 T	A	A	CCAAGATGGAATTTTCTGGGCTGAATACAGAGGCGGGTCATACTCCTTAAGAGCAGTTCAGA	
			GTCAATAGGCTTGATCATCATCTGAACTGCTCTTAAGGAGTATGACCCGCCTCTGTATTC[GA]GCCCAGAAAATTCCAT	
69056 IS	[GA]		CTTGGTGCTTGCTTCTGTAATGGCCTCCTCTGTACCATACTCCA	ANGPTL1
69065 I		S	ACTGGCAGAACCTAGGATTGCATTAGTCTATCTGGCTT	
69065 P	G	S	CGCGCCGAGGCTGCCTCTCATTTTACACTY	
69065 P	C	S	ATGACGTGGCAGACGTGCCTCTCATTTTACACTY	
69065 T	G	S	AGTCAGTGTAAAATGAGAGGCAGAGCCAGATAGACTAATGCAATCCTAGGTTCTGCCAGTTG	
69065 T	C	S	AGTCAGTGTAAAATGAGAGGCACAGCCAGATAGACTAATGCAATCCTAGGTTCTGCCAGTTG	
			GAAAAATAAGAATCAATGTTGGATTCTGTATATTGGTCAGTCAGTGTAAAATGAGAGGCA[GC]AGCCAGATAGACTAAT	
69065 IS	[GC]		GCAATCCTAGGTTCTGCCAGTTGTAATCAAGGATTCCATCTTTT	
69112 I		A	GGTGCAAGCGTAAATGTCCTTTTCCTTGGT	
69112 P	A	A	CGCGCCGAGGACTGTCTTTACCGAATGACY	
69112 P	G	A	ATGACGTGGCAGACGCTGTCTTTACCGAATGAY	
69112 T	A	A	TCATGTCATTCGGTAAAGACAGTCCAAGGAAAAAGGACATTTACGCTTGCACCTT	
69112 T	G	A	TCATGTCATTCGGTAAAGACAGCCCAAGGAAAAAGGACATTTACGCTTGCACCTT	
			CAGAAATGTGTTAGTCTGCAAAGCAAATAAGGTGCAAGCGTAAATGTCCTTTTTCCTTGG[AG]CTGTCTTTACCGAATG	
69112 IS	[AG]		ACATGAGCTTCACACCCTTGCCTTGAGCTGTCACTATCATTGCT	
69114 I		A	AATGAGGACTCATATGGGTCGTGTGGTCAC	
69114 P	T	A	CGCGCCGAGGTGTTTGTTTCAAGGGCTTY	
69114 P	A	A	ATGACGTGGCAGACAGTTTGTTTCAAGGGCTTY	
69114 T	T	A	GGGAAAGCCCTTGAAACAAACATGACCACACGACCCATATGAGTCCTCATTGT	
69114 T	A	A	GGGAAAGCCCTTGAAACAAACTTGACCACACGACCCATATGAGTCCTCATTGT	
			GGAATTGTGGGTGCTTGGGGAAAAACATTACAATGAGGACTCATATGGGTCGTGTGGTCA[TA]GTTTGTTTCAAGGGC	
69114 IS	[TA]		TTTCCCTTCCAAAACTGGAAAAGAAAACTGATAAAACAAACATTG	
69128 I		S	AGCTGGGTGTCTGCTTCCCACTTTCCATCA	
69128 P	A	S	CGCGCCGAGGTCTCAGCCTCTGCATTAY	
69128 P	G	S	ATGACGTGGCAGACCCTCAGCCTCTGCATY	
69128 T	A	S	ATTCTAATGCAGAGGCTGAGAGATGGAAAGTGGGAAGCAGACACCCAGCTGA	
69128 T	G	S	ATTCTAATGCAGAGGCTGAGGGATGGAAAGTGGGAAGCAGACACCCAGCTGA	
			TATGTCTGCTAGGAGATAGGCTCCGTGCAGGATCAAAGAAATTCTAATGCAGAGGCTGAG[AG]GATGGAAAGTGGGA	
69128 IS	[AG]		AGCAGACACCCAGCTGAAGGATAATGGTAAAGAACCACCTACAGCT	
69129 I		S	TCACACACTGATCTCCCCCTTTTTATAGGTACTCAATATTTATAAATGT	
69129 P	C	S	ATGACGTGGCAGACGGCAGAAGGATCTTTGCY	
69129 P	T	S	CGCGCCGAGGAGCAGAAGGATCTTTGCY	
69129 T	C	S	AAAGGCAAAGATCCTTCTGCCCATTTATAAATATTGAGTACCTATAAAAAGGGGGAGATCAGTGTGTGAAA	
69129 T	T	S	AAAGGCAAAGATCCTTCTGCTCATTTATAAATATTGAGTACCTATAAAAAGGGGGAGATCAGTGTGTGAAA	
			AGAATACACGTTTACCAAATTTGTCTGTAGTAGGAAAGGTAAAGGCAAAGATCCTTCTGC[CT]CATTTATAAATATTGAG	
69129 IS	[CT]		TACCTATAAAAAGGGGGAGATCAGTGTGTGAAAAATGCATTAG	
37930 I		A	AAATATTTTATTTCCTCGATTGATTCATACACTTTCTTGAGGATAGCAAAA	
37930 P	C	A	CGCGCCGAGGCCTTTTGGAATATTTTCCAACCAGV	
37930 P	T	A	CGCGCCGAGGTCTTTTGGAATATTTTCCAACCAGV	


37930 T C A CATTCTGGTTGGAAAATATTCCAAAAGGTTTGCTATCCTCAAGAAAGTGTATGAATCAATCGAGGAAATAAAATATTT
37930 T T A CATTCTGGTTGGAAAATATTCCAAAAGATTTGCTATCCTCAAGAAAGTGTATGAATCAATCGAGGAAATAAAATATTT
37930 IS [CT]
38216 I S GAGGATGTCATGAGGTGACTTCTGCTTAGACCATCCCA
38216 P A S CGCGCCGAGGTGAGGTACCCTGCCTCY
38216 P G S CGCGCCGAGGCGAGGTACCCTGCCTCY
38216 T A S AGTTGAGGCAGGGTACCTCAGGGATGGTCTAAGCAGAAGTCACCTCATGACATCCTCCC
38216 T G S AGTTGAGGCAGGGTACCTCGGGGATGGTCTAAGCAGAAGTCACCTCATGACATCCTCCC
38216 IS [AG]
38222 I A CAATTCTCAGGCAGAAGCAGCGGAGATTCTCCGA
38222 P C A CGCGCCGAGGCAGCCGGCAGCGV
38222 P T A CGCGCCGAGGTAGCCGGCAGCGCV
38222 T C A CTGGGCGCTGCCGGCTGCGGAGAATCTCCGCTGCTTCTGCCTGAGAATTGAC
38222 T T A CTGGGCGCTGCCGGCTACGGAGAATCTCCGCTGCTTCTGCCTGAGAATTGAC
38222 IS [CT]
41146 I S CAACCCCCATTATTATACCAAGTTCTCAGCTAGTCCACTGATCAAATT
41146 P T S CGCGCCGAGGACATCACATTTGAGCAATGC
41146 P C S CGCGCCGAGGGCATCACATTTGAGCAATGC
41146 T T S CTCTGCATTGCTCAAATGTGATGTATTTGATCAGTGGACTAGCTGAGAACTTGGTATAATAATGGGGGTTGTT
41146 T C S CTCTGCATTGCTCAAATGTGATGCATTTGATCAGTGGACTAGCTGAGAACTTGGTATAATAATGGGGGTTGTT
41146 IS [TC]
41148 I A GCTTAAGGCAGCTTAAGCACAAAGAATGTCATCTTCAAACATTGTAACGT
41148 P G A CGCGCCGAGGGCATCTTCTTTTTGGGGCAY
41148 P A A CGCGCCGAGGACATCTTCTTTTTGGGGCAY
41148 T G A TCAGTGCCCCAAAAAGAAGATGCCGTTACAATGTTTGAAGATGACATTCTTTGTGCTTAAGCTGCCTTAAGCC
41148 T A A TCAGTGCCCCAAAAAGAAGATGTCGTTACAATGTTTGAAGATGACATTCTTTGTGCTTAAGCTGCCTTAAGCC
41148 IS [GA]
41149 I S CAGTCCAGAACACAGAAACTACTCTAGGCATTTAAAGCAGAGAAAATATAT
41149 P C S CGCGCCGAGGGTACAGGGAATTGATTACACAGG
41149 P T S CGCGCCGAGGATACAGGGAATTGATTACACAGG
41149 T C S GTCACCTGTGTAATCAATTCCCTGTACTATATTTTCTCTGCTTTAAATGCCTAGAGTAGTTTCTGTGTTCTGGACTG
41149 T T S GTCACCTGTGTAATCAATTCCCTGTATTATATTTTCTCTGCTTTAAATGCCTAGAGTAGTTTCTGTGTTCTGGACTG
41149 IS [CT]
44973 I A GGGCTCCTGTGGTTGGGGGTTGGGT
44973 P INS A CGCGCCGAGGGGTTTGGGCTCCTCAGA
44973 P DEL A CGCGCCGAGGGTTTGGGCTCCTCAGAG
44973 T INS A CAGGCTCTGAGGAGCCCAAACCCCCAACCCCCAACCACAGGAGCCCGT
44973 T DEL A CAGGCTCTGAGGAGCCCAAACCCCAACCCCCAACCACAGGAGCCCGT
44973 IS [G-]
64276 I A GCTGCCAGCCCCGCCCAGACTA
64276 P C A CGCGCCGAGGCCAGGCAGGTTCTCGTV
64276 P T A CGCGCCGAGGTCAGGCAGGTTCTCGTV
64276 T C A TAGCAACGAGAACCTGCCTGGAGTCTGGGCGGGGCTGGCAGCAG
64276 T T A TAGCAACGAGAACCTGCCTGAAGTCTGGGCGGGGCTGGCAGCAG
64276 IS [CT]
64279 I S CCAGGGGCAGAGCATTTTCCTGGAATAGTCACTCT
64279 P T S CGCGCCGAGGACTGTACTTCCAAGCTGTCV
64279 P C S CGCGCCGAGGGCTGTACTTCCAAGCTGTCV
64279 T T S GTGGGACAGCTTGGAAGTACAGTGAGTGACTATTCCAGGAAAATGCTCTGCCCCTGGGA
64279 T C S GTGGGACAGCTTGGAAGTACAGCGAGTGACTATTCCAGGAAAATGCTCTGCCCCTGGGA
64279 IS [TC]
64295 I A GCCCCTGCATTCCCCGCTTCGTCCT
64295 P C A CGCGCCGAGGCGCTGTCCACGGCV
64295 P A A CGCGCCGAGGAGCTGTCCACGGCGV
64295 T C A CCGGCGCCGTGGACAGCGGGACGAAGCGGGGAATGCAGGGGCGC
64295 T A A CCGGCGCCGTGGACAGCTGGACGAAGCGGGGAATGCAGGGGCGC
64295 IS [CA]
64296 I A GGAGGCTACTGTATATTTACCACCAGGGCTTTATTCATGCACTA
64296 P C A CGCGCCGAGGCTTAGTTGAACACAGATAATACGTTTTACV
64296 P T A CGCGCCGAGGTTTAGTTGAACACAGATAATACGTTTTACV
64296 T C A ATAAGTAAAACGTATTATCTGTGTTCAACTAAGAGTGCATGAATAAAGCCCTGGTGGTAAATATACAGTAGCCTCCAT
64296 T T A ATAAGTAAAACGTATTATCTGTGTTCAACTAAAAGTGCATGAATAAAGCCCTGGTGGTAAATATACAGTAGCCTCCAT
64296 IS [CT]
64299 I A GCTGGAGTCAAGGTTATCCAGTGGAGTTTCCACTTTAAAAATCAGTTTTC
64299 P G A CGCGCCGAGGGTCAGCCTTTGTGTTTGCV
64299 P T A CGCGCCGAGGTTCAGCCTTTGTGTTTGCAV
64299 T G A AATATGCAAACACAAAGGCTGACAAAACTGATTTTTAAAGTGGAAACTCCACTGGATAACCTTGACTCCAGCC
64299 T T A AATATGCAAACACAAAGGCTGAAAAAACTGATTTTTAAAGTGGAAACTCCACTGGATAACCTTGACTCCAGCC
64299 IS [GT]
64312 I A CAACTGTTTCCAAGCTTATTCTTAGACGGCCATCTTCCTTCTTTA
64312 P T A CGCGCCGAGGTGGAATCTTTCTGGTACTAGTACTV
64312 P C A CGCGCCGAGGCGGAATCTTTCTGGTACTAGTACV
64312 T T A AAAAAGTACTAGTACCAGAAAGATTCCAAAAGAAGGAAGATGGCCGTCTAAGAATAAGCTTGGAAACAGTTGCA

HaPOX2


64312 T C A AAAAAGTACTAGTACCAGAAAGATTCCGAAAGAAGGAAGATGGCCGTCTAAGAATAAGCTTGGAAACAGTTGCA
64312 IS [TC] AAACTGCAACTGTTTCCAAGCTTATTCTTAGACGGCCATCTTCCTTCTTT[TC]GGAATCTTTCTGGTACTAGTACTTTTT TTCTCTACAAGTGTATCTCCTCA
64315 I S CATTCACAGCGTAGTGGGTGGGGAAATGGACAT
64315 P C S CGCGCCGAGGGTGAACCCGGGTGTCAV
64315 P T S CGCGCCGAGGATGAACCCGGGTGTCAV
64315 T C S GCCCTGACACCCGGGTTCACTGTCCATTTCCCCACCCACTACGCTGTGAATGGC
64315 T T S GCCCTGACACCCGGGTTCATTGTCCATTTCCCCACCCACTACGCTGTGAATGGC
64315 IS [CT] acaacticatttgtctctatagcctcatcacgcccttgacacccgggttc[CT]ttgtccattcccccacccactacgctgtgaatggcagatggacctgacagc
64317 I S AAAGAAGACAGAGAAGCATATTCTAATTAACTAGTTTAAGAGGAACTTAAT
64317 P C S CGCGCCGAGGGCTAAATTTCCTTAGACATCCTAAATGV
64317 P T S CGCGCCGAGGACTAAATTTCCTTAGACATCCTAAATGGV
64317 T C ATGTCCATTTAGGATGTCTAAGGAAATTTAGCTTAAGTTCCTCTTAAACTAGTTAATTAGAATATGCTTCTCTGTCTTCT S TT
64317 T T ATGTCCATTTAGGATGTCTAAGGAAATTTAGTTTAAGTTCCTCTTAAACTAGTTAATTAGAATATGCTTCTCTGTCTTCT S TT
64317 IS [CT] cagaatgtgaaaagggccaatgtccatttaggatgtctaaggaaatttag[CT]ttaagttcctcttaaactagttaattagaatatgcttctctgtctttt
64335 I S TCTGACTTCAGCTTTTCTATGTCTCTGTGTTAGGATTTAAAAAATTAAATC
64335 P A S CGCGCCGAGGTCTAGGCACTTGAACCTGTV
64335 P C S CGCGCCGAGGGCTAGGCACTTGAACCTGV
64335 T A S ATCAACAGGTTCAAGTGCCTAGAATTTAATTTTTTAAATCCTAACACAGAGACATAGAAAAGCTGAAGTCAGA
64335 T C S ATCAACAGGTTCAAGTGCCTAGCATTTAATTTTTTAAATCCTAACACAGAGACATAGAAAAGCTGAAGTCAGA
64335 IS [AC] tagagccatagactaaaacacaaaggagatccaccaggttcaagtgcctag[AC]atttaatttttaaatcctaacacagagacatagaaaagctgaagtcaga
64336 I A GATTTGAACAATTATGTCAGTTAAGGAAAAGCAGACATAATTGGAGAAATC
64336 P A A CGCGCCGAGGATGTGGCGAATCAAACAGGV
64336 P T A CGCGCCGAGGTTGTGGCGAATCAAACAGGV
64336 T A A AGAACCTGTTTGATTCGCCACATATTTCTCCAATTATGTCTGCTTTTCCTTAACTGACATAATTGTTCAAATC
64336 T T A AGAACCTGTTTGATTCGCCACAAATTTCTCCAATTATGTCTGCTTTTCCTTAACTGACATAATTGTTCAAATC
64336 IS [AT] gattggaacaattatgtcagttaaggaaaagcagacataattggagaaat[AT]gtggcgaatcaaacaggttctgttacttgcttctgagatatgctatgca
64345 I A TAGCTAAATACACATTAGCTATTATTACTCCTGCTACTTCTACTTATTATT
64345 P A A CGCGCCGAGGATTTGCTGCTTTTATTATTGTTGTCAV
64345 P C A CGCGCCGAGGCTTTGCTGCTTTTATTATTGTTGTCV
64345 T A A TTAGTGACAACAATAATAAAAGCAGCAAATATAATAAGTAGAAGTAGCAGGAGTAATAATAGCTAATGTGTATTTAGCTA
64345 T C A TTAGTGACAACAATAATAAAAGCAGCAAAGATAATAAGTAGAAGTAGCAGGAGTAATAATAGCTAATGTGTATTTAGCT A A
64345 IS [AC] tagctaaatacacattagctattattactcctgctactttactattatat[AC]tttgctgctttattattgtgtcactaatataaagctggaaggaaccac
64353 I A CCCCCAGCCCACTGTTATTTTTTCATTCATCACTCCATCA
64353 P T A CGCGCCGAGGTACTTGCCAGGCCTGGV
64353 P C A CGCGCCGAGGCACTTGCCAGGCCTGV
64353 T T A CTACCCAGGCCTGGCAAGTAGATGGAGTGATGAATGAAAAAATAACAGTGGGCTGGGGGTG
64353 T C A CTACCCAGGCCTGGCAAGTGGATGGAGTGATGAATGAAAAAATAACAGTGGGCTGGGGGTG
64353 IS [TC] atgagccaccacccccagcccactgttatttttcattcatcactcc[TC]acttgccaggcctgggtaggggcctgagaccccagaccagcccacagctc
64359 I S GGATAGGCCCTCGAGTTTGGCATCACTTGCAATT
64359 P C S CGCGCCGAGGGCTGCCTCTGCTATATGCV
64359 P G S CGCGCCGAGGCCTGCCTCTGCTATATGCV
64359 T C S ACTAGCATATAGCAGAGGCAGCATTGCAAGTGATGCCAAACTCGAGGGCCTATCCCA
64359 T G S ACTAGCATATAGCAGAGGCAGGATTGCAAGTGATGCCAAACTCGAGGGCCTATCCCA
64359 IS [CG] gagtaaaccagtctgcaaaggtccacacaactagcatatagcagaggcag[CG]attgcaagtgatgccaaactcgagggcctatcccatttttattaatacca
64361 I A CAGGACCTTTCACATTTCTTAGAACAAGCAGGAAATCAAGTCACCT
64361 P G A CGCGCCGAGGGAACTTACCTCCGCATTTTCAV
64361 P A A CGCGCCGAGGAAACTTACCTCCGCATTTTCAV
64361 T G A GAGATGAAAATGCGGAGGTAAGTTCGGTGACTTGATTTCCTGCTTGTTCTAAGAAATGTGAAAGGTCCTGCT
64361 T A A GAGATGAAAATGCGGAGGTAAGTTTGGTGACTTGATTTCCTGCTTGTTCTAAGAAATGTGAAAGGTCCTGCT
64361 IS [GA] aacagccaggaccttcacatttcttagaacaagcaggaaatcaagtcacc[GA]aacttacctccgcattttcatctcccatttcttgaggagccatcagtgtct
67004 I S GCTCACCTTGGCCAATGCCTCCTTCTGCA
67004 P G S CGCGCCGAGGCTGGGGCTCAGATCGCV
67004 P A S CGCGCCGAGGTTGGGGCTCAGATCGCV
67004 T G S GTCGGCGATCTGAGCCCCAGGCAGAAGGAGGCATTGGCCAAGGTGAGCTG
67004 T A S GTCGGCGATCTGAGCCCCAAGCAGAAGGAGGCATTGGCCAAGGTGAGCTG
67004 IS [GA] tcccccgcggttgagccacgatgagcggcagagtcggcgatctgcgccccc[GA]gccagaaggaggccattggccaaggtgagctgtagcccttggcccgggctccc
67010 I A CAAGTGTCTGAGCCAATTAGAGACCCCTGACATATAACAATAAAGCAT
67010 P G A CGCGCCGAGGGCTCTTACTACAACTGCATCCV
67010 P A A CGCGCCGAGGACTCTTACTACAACTGCATCCV
67010 T G A GGAGGGATGCAGTTGTAGTAAGAGCTGCTTTATTGTTATATGTCAGGGGTCTCTAATTGGCTCAGACACTTGAA
67010 T A A GGAGGGATGCAGTTGTAGTAAGAGTTGCTTTATTGTTATATGTCAGGGGTCTCTAATTGGCTCAGACACTTGAA
67010 IS [GA] atcaagtgtctgagccaattagagacccctgacatataacaataaagca[GA]ctcttactacaactgcatcccctctgtgccttatttcccaatcacaacttt
67014 I S CGCAGTCCAGCTCCTGGTCATTTGCTGCT
67014 P C S CGCGCCGAGGGAGGAAGTTCCCCTTGGTV
67014 P T S CGCGCCGAGGAAGGAAGTTCCCCTTGGTV
67014 T C S GCAGACCAAGGGGAACTTCCTCGCAGCAAATGACCAGGAGCTGGACTGCGAC
67014 T T S GCAGACCAAGGGGAACTTCCTTGCAGCAAATGACCAGGAGCTGGACTGCGAC
67014 IS [CT] gagagagagggtagttaaggttccatgatgcagaccaaggggaacttcct[CT]gcagcaaatgaccaggagctggactgcgacatcctccagctggaatacgt SERPIND1
67024 I A AAAACTACTTTAGAGAATTGAAAGGAAAGAAAACTCAAATAATTTTTATAT
67024 P G A CGCGCCGAGGGTAGGTTAATACTGTCAATAGGTCAATV
67024 P A A CGCGCCGAGGATAGGTTAATACTGTCAATAGGTCAATCV
67024 T G A TCCTGATTGACCTATTGACAGTATTAACCTACTATAAAAATTATTTGAGTTTTCTTTCCTTTCAATTCTCTAAAGTAGTTT T

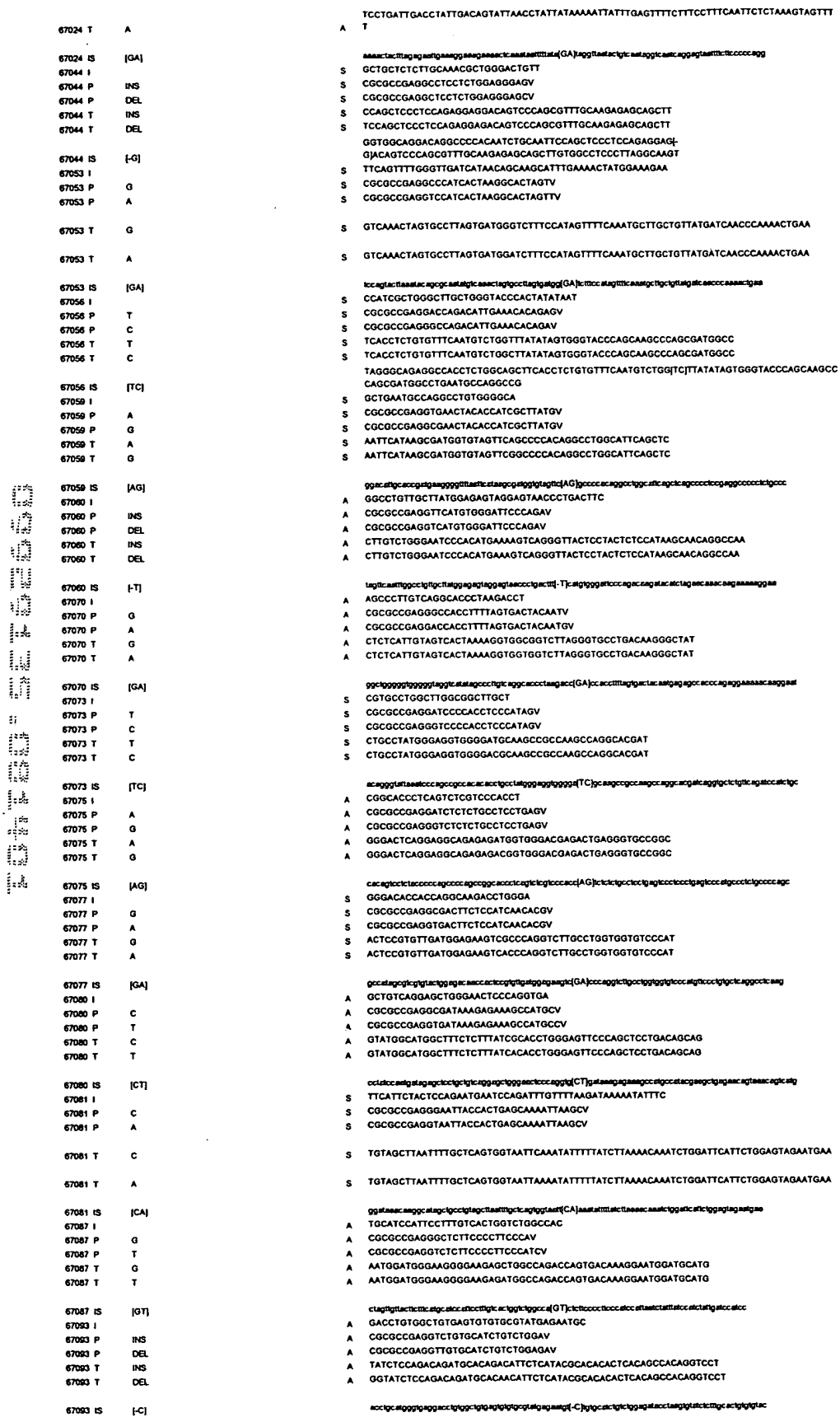

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67024 T A
A T
67024 IS [GA]
67044 I
S GCTGCTCTCTTGCAAACGCTGGGACTGTT
67044 P INS
S CGCGCCGAGGCCTCCTCTGGAGGGAGV
67044 P DEL
S CGCGCCGAGGCTCCTCTGGAGGGAGCV
67044 T INS
S CCAGCTCCCTCCAGAGGAGGACAGTCCCAGCGTTTGCAAGAGAGCAGCTT
67044 T DEL
S TCCAGCTCCCTCCAGAGGAGACAGTCCCAGCGTTTGCAAGAGAGCAGCTT
67044 IS [-G]
GGTGGCAGGACAGGCCCCACAATCTGCAATTCCAGCTCCCTCCAGAGGAG[-
G]ACAGTCCCAGCGTTTGCAAGAGAGCAGCTTGTGGCCTCCCTTAGGCAAGT
67053 I
S TTCAGTTTTGGGTTGATCATAACAGCAAGCATTTGAAAACTATGGAAAGAA
67053 P G
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67053 P A
S CGCGCCGAGGTCCATCACTAAGGCACTAGTTV
67053 T G
S GTCAAACTAGTGCCTTAGTGATGGGTCTTTCCATAGTTTTCAAATGCTTGCTGTTATGATCAACCCAAAACTGAA
67053 T A
S GTCAAACTAGTGCCTTAGTGATGGATCTTTCCATAGTTTTCAAATGCTTGCTGTTATGATCAACCCAAAACTGAA
67053 IS [GA]
67056 I
S CCATCGCTGGGCTTGCTGGGTACCCACTATATAAT
67056 P T
S CGCGCCGAGGACCAGACATTGAAACACAGAGV
67056 P C
S CGCGCCGAGGGCCAGACATTGAAACACAGAV
67056 T T
S TCACCTCTGTGTTTCAATGTCTGGTTTATATAGTGGGTACCCAGCAAGCCCAGCGATGGCC
67056 T C
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67056 IS [TC]
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67059 I
S GCTGAATGCCAGGCCTGTGGGGCA
67059 P A
S CGCGCCGAGGTGAACTACACCATCGCTTATGV
67059 P G
S CGCGCCGAGGCGAACTACACCATCGCTTATGV
67059 T A
S AATTCATAAGCGATGGTGTAGTTCAGCCCCACAGGCCTGGCATTCAGCTC
67059 T G
S AATTCATAAGCGATGGTGTAGTTCGGCCCCACAGGCCTGGCATTCAGCTC
67059 IS [AG]
67060 I
A GGCCTGTTGCTTATGGAGAGTAGGAGTAACCCTGACTTC
67060 P INS
A CGCGCCGAGGTTCATGTGGGATTCCCAGAV
67060 P DEL
A CGCGCCGAGGTCATGTGGGATTCCCAGAV
67060 T INS
A CTTGTCTGGGAATCCCACATGAAAAGTCAGGGTTACTCCTACTCTCCATAAGCAACAGGCCAA
67060 T DEL
A CTTGTCTGGGAATCCCACATGAAAGTCAGGGTTACTCCTACTCTCCATAAGCAACAGGCCAA
67060 IS [-T]
67070 I
A AGCCCTTGTCAGGCACCCTAAGACCT
67070 P G
A CGCGCCGAGGGCCACCTTTTAGTGACTACAATV
67070 P A
A CGCGCCGAGGACCACCTTTTAGTGACTACAATGV
67070 T G
A CTCTCATTGTAGTCACTAAAAGGTGGCGGTCTTAGGGTGCCTGACAAGGGCTAT
67070 T A
A CTCTCATTGTAGTCACTAAAAGGTGGTGGTCTTAGGGTGCCTGACAAGGGCTAT
67070 IS [GA]
67073 I
S CGTGCCTGGCTTGGCGGCTTGCT
67073 P T
S CGCGCCGAGGATCCCCACCTCCCATAGV
67073 P C
S CGCGCCGAGGGTCCCCACCTCCCATAGV
67073 T T
S CTGCCTATGGGAGGTGGGGATGCAAGCCGCCAAGCCAGGCACGAT
67073 T C
S CTGCCTATGGGAGGTGGGGACGCAAGCCGCCAAGCCAGGCACGAT
67073 IS [TC]
67075 I
A CGGCACCCTCAGTCTCGTCCCACCT
67075 P A
A CGCGCCGAGGATCTCTCTGCCTCCTGAGV
67075 P G
A CGCGCCGAGGGTCTCTCTGCCTCCTGAGV
67075 T A
A GGGACTCAGGAGGCAGAGAGATGGTGGGACGAGACTGAGGGTGCCGGC
67075 T G
A GGGACTCAGGAGGCAGAGAGACGGTGGGACGAGACTGAGGGTGCCGGC
67075 IS [AG]
67077 I
S GGGACACCACCAGGCAAGACCTGGGA
67077 P G
S CGCGCCGAGGCGACTTCTCCATCAACACGV
67077 P A
S CGCGCCGAGGTGACTTCTCCATCAACACGV
67077 T G
S ACTCCGTGTTGATGGAGAAGTCGCCCAGGTCTTGCCTGGTGGTGTCCCAT
67077 T A
S ACTCCGTGTTGATGGAGAAGTCACCCAGGTCTTGCCTGGTGGTGTCCCAT
67077 IS [GA]
67080 I
A GCTGTCAGGAGCTGGGAACTCCCAGGTGA
67080 P C
A CGCGCCGAGGCGATAAAGAGAAAGCCATGCV
67080 P T
A CGCGCCGAGGTGATAAAGAGAAAGCCATGCCV
67080 T C
A GTATGGCATGGCTTTCTCTTTATCGCACCTGGGAGTTCCCAGCTCCTGACAGCAG
67080 T T
A GTATGGCATGGCTTTCTCTTTATCACACCTGGGAGTTCCCAGCTCCTGACAGCAG
67080 IS [CT]
67081 I
S TTCATTCTACTCCAGAATGAATCCAGATTTGTTTTAAGATAAAAATATTTC
67081 P C
S CGCGCCGAGGGAATTACCACTGAGCAAAATTAAGCV
67081 P A
S CGCGCCGAGGTAATTACCACTGAGCAAAATTAAGCV
67081 T C
S TGTAGCTTAATTTTGCTCAGTGGTAATTCAAATATTTTTATCTTAAAACAAATCTGGATTCATTCTGGAGTAGAATGAA
67081 T A
S TGTAGCTTAATTTTGCTCAGTGGTAATTAAAATATTTTTATCTTAAAACAAATCTGGATTCATTCTGGAGTAGAATGAA
67081 IS [CA]
67087 I
A TGCATCCATTCCTTTGTCACTGGTCTGGCCAC
67087 P G
A CGCGCCGAGGGCTCTTCCCCTTCCCAV
67087 P T
A CGCGCCGAGGTCTCTTCCCCTTCCCATCV
67087 T G
A AATGGATGGGAAGGGGAAGAGCTGGCCAGACCAGTGACAAAGGAATGGATGCATG
67087 T T
A AATGGATGGGAAGGGGAAGAGATGGCCAGACCAGTGACAAAGGAATGGATGCATG
67087 IS [GT]
67093 I
A GACCTGTGGCTGTGAGTGTGTGCGTATGAGAATGC
67093 P INS
A CGCGCCGAGGTCTGTGCATCTGTCTGGAV
67093 P DEL
A CGCGCCGAGGTTGTGCATCTGTCTGGAGAV
67093 T INS
A TATCTCCAGACAGATGCACAGACATTCTCATACGCACACACTCACAGCCACAGGTCCT
67093 T DEL
A GGTATCTCCAGACAGATGCACAACATTCTCATACGCACACACTCACAGCCACAGGTCCT
67093 IS [-C]

FIGURE 129D

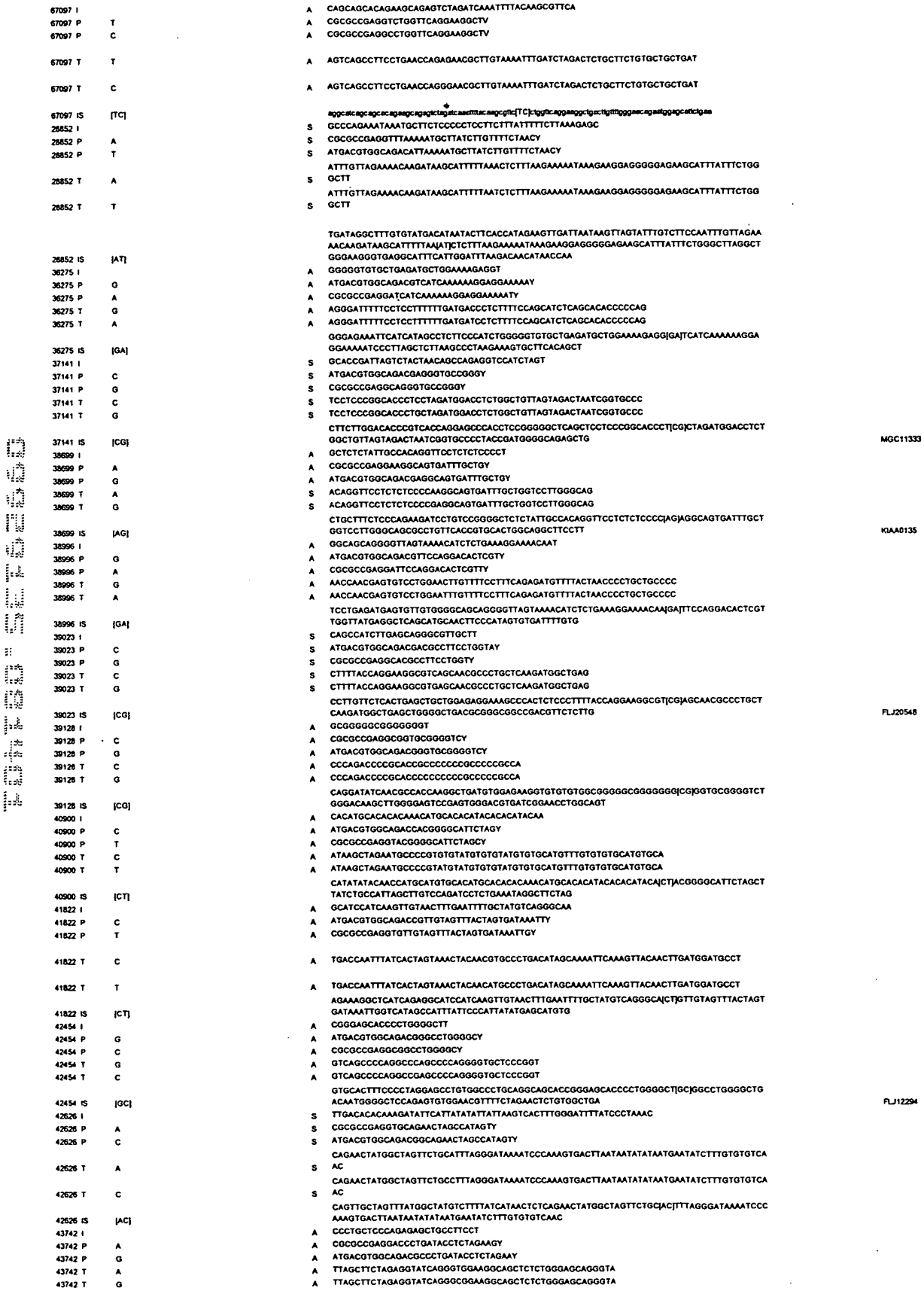

67097 I A CAGCAGCACAGAAGCAGAGTCTAGATCAAATTTTACAAGCGTTCA
67097 P T A CGCGCCGAGGTCTGGTTCAGGAAGGCTV
67097 P C A CGCGCCGAGGCCTGGTTCAGGAAGGCTV
67097 T T A AGTCAGCCTTCCTGAACCAGAGAACGCTTGTAAAATTTGATCTAGACTCTGCTTCTGTGCTGCTGAT
67097 T C A AGTCAGCCTTCCTGAACCAGGGAACGCTTGTAAAATTTGATCTAGACTCTGCTTCTGTGCTGCTGAT
67097 IS [TC]
28852 I S GCCCAGAAATAAATGCTTCTCCCCCTCCTTCTTTATTTTTCTTAAAGAGC
28852 P A S CGCGCCGAGGTTTAAAAATGCTTATCTTGTTTTCTAACY
28852 P T S ATGACGTGGCAGACATTAAAAATGCTTATCTTGTTTTCTAACY
28852 T A S GCTT
28852 T T S GCTT
28852 IS [AT]
36275 I A GGGGGTGTGCTGAGATGCTGGAAAAGAGGT
36275 P G A ATGACGTGGCAGACGTCATCAAAAAAGGAGGAAAAAY
36275 P A A CGCGCCGAGGATCATCAAAAAAGGAGGAAAAATY
36275 T G A AGGGATTTTTCCTCCTTTTTTGATGACCCTCTTTTCCAGCATCTCAGCACACCCCCAG
36275 T A A AGGGATTTTTCCTCCTTTTTTGATGATCCTCTTTTCCAGCATCTCAGCACACCCCCAG
36275 IS [GA]
37141 I S GCACCGATTAGTCTACTAACAGCCAGAGGTCCATCTAGT
37141 P C S ATGACGTGGCAGACGAGGGTGCCGGGY
37141 P G S CGCGCCGAGGCAGGGTGCCGGGY
37141 T C S TCCTCCCGGCACCCTCCTAGATGGACCTCTGGCTGTTAGTAGACTAATCGGTGCCC
37141 T G S TCCTCCCGGCACCCTGCTAGATGGACCTCTGGCTGTTAGTAGACTAATCGGTGCCC
37141 IS [CG] MGC11333
38699 I A GCTCTCTATTGCCACAGGTTCCTCTCTCCCCT
38699 P A A CGCGCCGAGGAAGGCAGTGATTTGCTGY
38699 P G A ATGACGTGGCAGACGAGGCAGTGATTTGCTGY
38699 T A S ACAGGTTCCTCTCTCCCCAAGGCAGTGATTTGCTGGTCCTTGGGCAG
38699 T G S ACAGGTTCCTCTCTCCCCGAGGCAGTGATTTGCTGGTCCTTGGGCAG
38699 IS [AG] KIAA0135
38996 I A GGCAGCAGGGGTTAGTAAAACATCTCTGAAAGGAAAACAAT
38996 P G A ATGACGTGGCAGACGTTCCAGGACACTCGTY
38996 P A A CGCGCCGAGGATTCCAGGACACTCGTTY
38996 T G A AACCAACGAGTGTCCTGGAACTTGTTTTCCTTTCAGAGATGTTTTACTAACCCCTGCTGCCCC
38996 T A A AACCAACGAGTGTCCTGGAATTTGTTTTCCTTTCAGAGATGTTTTACTAACCCCTGCTGCCCC
38996 IS [GA]
39023 I S CAGCCATCTTGAGCAGGGCGTTGCTT
39023 P C S ATGACGTGGCAGACGACGCCTTCCTGGTAY
39023 P G S CGCGCCGAGGCACGCCTTCCTGGTY
39023 T C S CTTTTACCAGGAAGGCGTCAGCAACGCCCTGCTCAAGATGGCTGAG
39023 T G S CTTTTACCAGGAAGGCGTGAGCAACGCCCTGCTCAAGATGGCTGAG
39023 IS [CG] FLJ20548
39128 I A GCGGGGGCGGGGGGGT
39128 P C A CGCGCCGAGGCGGTGCGGGGTCY
39128 P G A ATGACGTGGCAGACGGGTGCGGGGTCY
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39128 T G A CCCAGACCCCGCACCCCCCCCCGCCCCCGCCA
39128 IS [CG]
40900 I A CACATGCACACACAAACATGCACACATACACACATACAA
40900 P C A ATGACGTGGCAGACCACGGGGCATTCTAGY
40900 P T A CGCGCCGAGGTACGGGGCATTCTAGCY
40900 T C A ATAAGCTAGAATGCCCCGTGTGTATGTGTGTATGTGTGCATGTTTGTGTGTGCATGTGCA
40900 T T A ATAAGCTAGAATGCCCCGTATGTATGTGTGTATGTGTGCATGTTTGTGTGTGCATGTGCA
40900 IS [CT]
41822 I A GCATCCATCAAGTTGTAACTTTGAATTTTGCTATGTCAGGGCAA
41822 P C A ATGACGTGGCAGACCGTTGTAGTTTACTAGTGATAAATTY
41822 P T A CGCGCCGAGGTGTTGTAGTTTACTAGTGATAAATTGY
41822 T C A TGACCAATTTATCACTAGTAAACTACAACGTGCCCTGACATAGCAAAATTCAAAGTTACAACTTGATGGATGCCT
41822 T T A TGACCAATTTATCACTAGTAAACTACAACATGCCCTGACATAGCAAAATTCAAAGTTACAACTTGATGGATGCCT
41822 IS [CT]
42454 I A CGGGAGCACCCCTGGGGCTT
42454 P G A ATGACGTGGCAGACGGGCCTGGGGCY
42454 P C A CGCGCCGAGGCGGCCTGGGGCY
42454 T G A GTCAGCCCCAGGCCCAGCCCCAGGGGTGCTCCCGGT
42454 T C A GTCAGCCCCAGGCCGAGCCCCAGGGGTGCTCCCGGT
42454 IS [GC] FLJ12294
42626 I S TTGACACACAAAGATATTCATTATATATTATTAAGTCACTTTGGGATTTTATCCCTAAAC
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42626 P C S ATGACGTGGCAGACGGCAGAACTAGCCATAGTY
42626 T A S AC
42626 T C S AC
42626 IS [AC]
43742 I A CCCTGCTCCCAGAGAGCTGCCTTCCT
43742 P A A CGCGCCGAGGACCCTGATACCTCTAGAAGY
43742 P G A ATGACGTGGCAGACGCCCTGATACCTCTAGAAY
43742 T A A TTAGCTTCTAGAGGTATCAGGGTGGAAGGCAGCTCTCTGGGAGCAGGGTA
43742 T G A TTAGCTTCTAGAGGTATCAGGGCGGAAGGCAGCTCTCTGGGAGCAGGGTA

FIGURE 129D

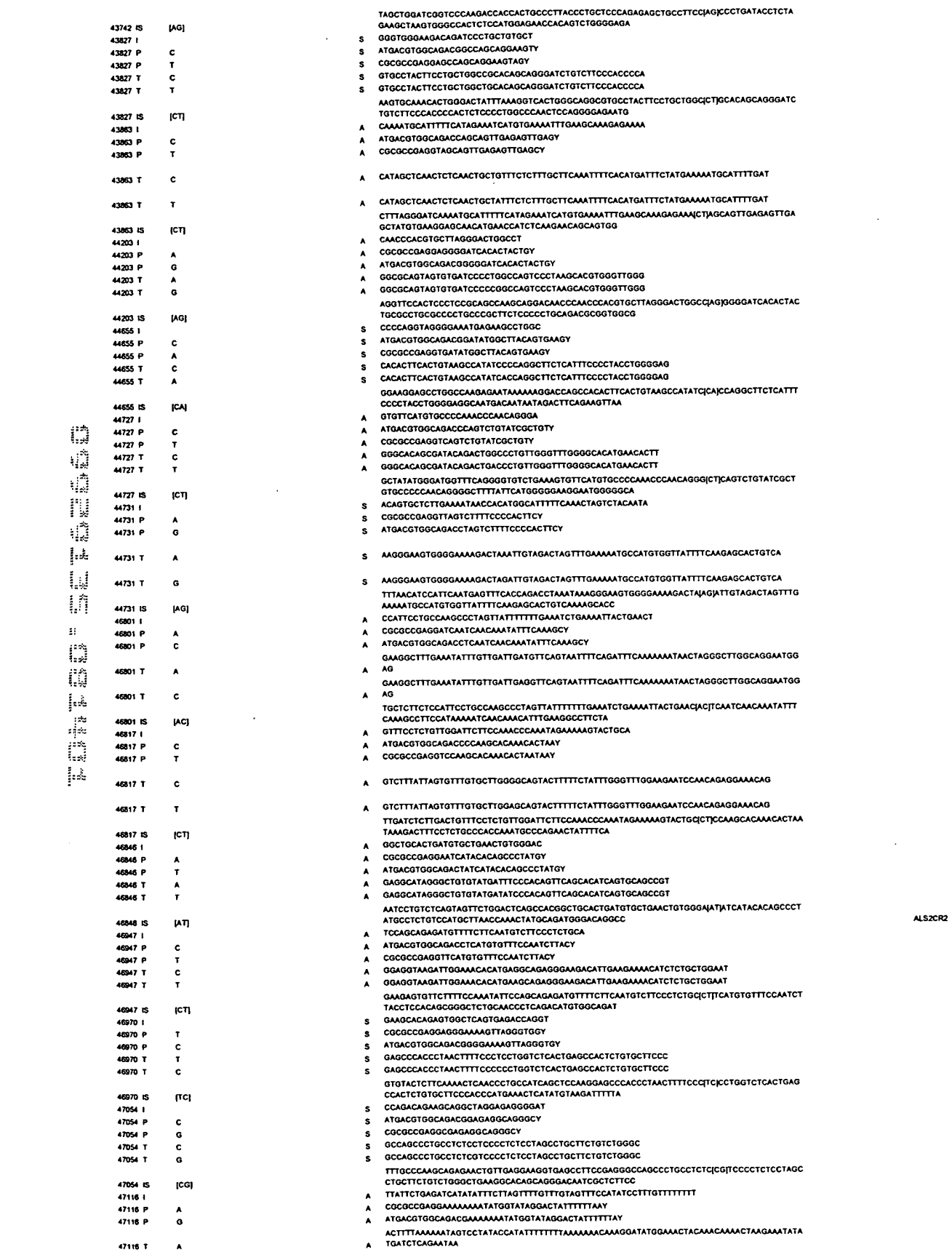

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43827 I S GGGTGGGAAGACAGATCCCTGCTGTGCT
43827 P C S ATGACGTGGCAGACGGCCAGCAGGAAGTY
43827 P T S CGCGCCGAGGAGCCAGCAGGAAGTAGY
43827 T C S GTGCCTACTTCCTGCTGGCCGCACAGCAGGGATCTGTCTTCCCACCCCA
43827 T T S GTGCCTACTTCCTGCTGGCTGCACAGCAGGGATCTGTCTTCCCACCCCA
AAGTGCAAACACTGGGACTATTTAAAGGTCACTGGGCAGGCGTGCCTACTTCCTGCTGGC[CT]GCACAGCAGGGATC
43827 IS [CT] TGTCTTCCCACCCCACTCTCCCCTGGCCCAACTCCAGGGGAGAATG
43863 I A CAAAATGCATTTTTCATAGAAATCATGTGAAAATTTGAAGCAAAGAGAAAA
43863 P C A ATGACGTGGCAGACCAGCAGTTGAGAGTTGAGY
43863 P T A CGCGCCGAGGTAGCAGTTGAGAGTTGAGCY
43863 T C A CATAGCTCAACTCTCAACTGCTGTTTCTCTTTGCTTCAAATTTTCACATGATTTCTATGAAAAATGCATTTTGAT
43863 T T A CATAGCTCAACTCTCAACTGCTATTTCTCTTTGCTTCAAATTTTCACATGATTTCTATGAAAAATGCATTTTGAT
CTTTAGGGATCAAAATGCATTTTTCATAGAAATCATGTGAAAATTTGAAGCAAAGAGAAA[CT]AGCAGTTGAGAGTTGA
43863 IS [CT] GCTATGTGAAGGAGCAACATGAACCATCTCAAGAACAGCAGTGG
44203 I A CAACCCACGTGCTTAGGGACTGGCCT
44203 P A A CGCGCCGAGGAGGGGATCACACTACTGY
44203 P G A ATGACGTGGCAGACGGGGGATCACACTACTGY
44203 T A A GGCGCAGTAGTGTGATCCCCTGGCCAGTCCCTAAGCACGTGGGTTGGG
44203 T G A GGCGCAGTAGTGTGATCCCCCGGCCAGTCCCTAAGCACGTGGGTTGGG
AGGTTCCACTCCCTCCGCAGCCAAGCAGGACAACCCAACCCACGTGCTTAGGGACTGGCC[AG]GGGGATCACACTAC
44203 IS [AG] TGCGCCTGCGCCCCTGCCCGCTTCTCCCCCTGCAGACGCGGTGGCG
44655 I S CCCCAGGTAGGGGAAATGAGAAGCCTGGC
44655 P C S ATGACGTGGCAGACGGATATGGCTTACAGTGAAGY
44655 P A S CGCGCCGAGGTGATATGGCTTACAGTGAAGY
44655 T C S CACACTTCACTGTAAGCCATATCCCCAGGCTTCTCATTTCCCCTACCTGGGGAG
44655 T A S CACACTTCACTGTAAGCCATATCACCAGGCTTCTCATTTCCCCTACCTGGGGAG
GGAAGGAGCCTGGCCAAGAGAATAAAAAAGGACCAGCCACACTTCACTGTAAGCCATATC[CA]CCAGGCTTCTCATTT
44655 IS [CA] CCCCTACCTGGGGAGGCAATGACAATAATAGACTTCAGAAGTTAA
44727 I A GTGTTCATGTGCCCCAAACCCAACAGGGA
44727 P C A ATGACGTGGCAGACCCAGTCTGTATCGCTGTY
44727 P T A CGCGCCGAGGTCAGTCTGTATCGCTGTY
44727 T C A GGGCACAGCGATACAGACTGGCCCTGTTGGGTTTGGGGCACATGAACACTT
44727 T T A GGGCACAGCGATACAGACTGACCCTGTTGGGTTTGGGGCACATGAACACTT
GCTATATGGGATGGTTTCAGGGGTGTCTGAAAGTGTTCATGTGCCCCAAACCCAACAGGG[CT]CAGTCTGTATCGCT
44727 IS [CT] GTGCCCCCAACAGGGGCTTTTATTCATGGGGGAAGGAATGGGGGCA
44731 I S ACAGTGCTCTTGAAAATAACCACATGGCATTTTTCAAACTAGTCTACAATA
44731 P A S CGCGCCGAGGTTAGTCTTTTCCCCACTTCY
44731 P G S ATGACGTGGCAGACCTAGTCTTTTCCCCACTTCY
44731 T A S AAGGGAAGTGGGGAAAAGACTAAATTGTAGACTAGTTTGAAAAATGCCATGTGGTTATTTTCAAGAGCACTGTCA
44731 T G S AAGGGAAGTGGGGAAAAGACTAGATTGTAGACTAGTTTGAAAAATGCCATGTGGTTATTTTCAAGAGCACTGTCA
TTTAACATCCATTCAATGAGTTTCACCAGACCTAAATAAAGGGAAGTGGGGAAAAGACTA[AG]ATTGTAGACTAGTTTG
44731 IS [AG] AAAAATGCCATGTGGTTATTTTCAAGAGCACTGTCAAAAGCACC
46801 I A CCATTCCTGCCAAGCCCTAGTTATTTTTTTGAAATCTGAAAATTACTGAACT
46801 P A A CGCGCCGAGGATCAATCAACAAATATTTCAAAGCY
46801 P C A ATGACGTGGCAGACCTCAATCAACAAATATTTCAAAGCY
GAAGGCTTTGAAATATTTGTTGATTGATGTTCAGTAATTTTCAGATTTCAAAAAAATAACTAGGGCTTGGCAGGAATGG
46801 T A A AG
GAAGGCTTTGAAATATTTGTTGATTGAGGTTCAGTAATTTTCAGATTTCAAAAAAATAACTAGGGCTTGGCAGGAATGG
46801 T C A AG
TGCTCTTCTCCATTCCTGCCAAGCCCTAGTTATTTTTTTGAAATCTGAAAATTACTGAAC[AC]TCAATCAACAAATATTT
46801 IS [AC] CAAAGCCTTCCATAAAAATCAACAAACATTTGAAGGCCTTCTA
46817 I A GTTTCCTCTGTTGGATTCTTCCAAACCCAAATAGAAAAAGTACTGCA
46817 P C A ATGACGTGGCAGACCCCAAGCACAAACACTAAY
46817 P T A CGCGCCGAGGTCCAAGCACAAACACTAATAAY
46817 T C A GTCTTTATTAGTGTTTGTGCTTGGGGCAGTACTTTTTCTATTTGGGTTTGGAAGAATCCAACAGAGGAAACAG
46817 T T A GTCTTTATTAGTGTTTGTGCTTGGAGCAGTACTTTTTCTATTTGGGTTTGGAAGAATCCAACAGAGGAAACAG
TTGATCTCTTGACTGTTTCCTCTGTTGGATTCTTCCAAACCCAAATAGAAAAAGTACTGC[CT]CCAAGCACAAACACTAA
46817 IS [CT] TAAAGACTTTCCTCTGCCCACCAAATGCCCAGAACTATTTTCA
46846 I A GGCTGCACTGATGTGCTGAACTGTGGGAC
46846 P A A CGCGCCGAGGAATCATACACAGCCCTATGY
46846 P T A ATGACGTGGCAGACTATCATACACAGCCCTATGY
46846 T A A GAGGCATAGGGCTGTGTATGATTTCCCACAGTTCAGCACATCAGTGCAGCCGT
46846 T T A GAGGCATAGGGCTGTGTATGATATCCCACAGTTCAGCACATCAGTGCAGCCGT
AATCCTGTCTCAGTAGTTCTGGACTCAGCCACGGCTGCACTGATGTGCTGAACTGTGGGA[AT]ATCATACACAGCCCT
46848 IS [AT] ATGCCTCTGTCCATGCTTAACCAAACTATGCAGATGGGACAGGCC ALS2CR2
46947 I A TCCAGCAGAGATGTTTTCTTCAATGTCTTCCCTCTGCA
46947 P C A ATGACGTGGCAGACCTCATGTGTTTCCAATCTTACY
46947 P T A CGCGCCGAGGTTCATGTGTTTCCAATCTTACY
46947 T C A GGAGGTAAGATTGGAAACACATGAGGCAGAGGGAAGACATTGAAGAAAACATCTCTGCTGGAAT
46947 T T A GGAGGTAAGATTGGAAACACATGAAGCAGAGGGAAGACATTGAAGAAAACATCTCTGCTGGAAT
GAAGAGTGTTCTTTTCCAAATATTCCAGCAGAGATGTTTTCTTCAATGTCTTCCCTCTGC[CT]TCATGTGTTTCCAATCT
46947 IS [CT] TACCTCCACAGCGGGCTCTGCAACCCTCAGACATGTGGCAGAT
46970 I S GAAGCACAGAGTGGCTCAGTGAGACCAGGT
46970 P T S CGCGCCGAGGAGGGAAAAGTTAGGGTGGY
46970 P C S ATGACGTGGCAGACGGGGAAAAGTTAGGGTGY
46970 T T S GAGCCCACCCTAACTTTTCCCTCCTGGTCTCACTGAGCCACTCTGTGCTTCCC
46970 T C S GAGCCCACCCTAACTTTTCCCCCCTGGTCTCACTGAGCCACTCTGTGCTTCCC
GTGTACTCTTCAAAACTCAACCCTGCCATCAGCTCCAAGGAGCCCACCCTAACTTTTCCC[TC]CCTGGTCTCACTGAG
46970 IS [TC] CCACTCTGTGCTTCCCACCCATGAAACTCATATGTAAGATTTTTA
47054 I S CCAGACAGAAGCAGGCTAGGAGAGGGGAT
47054 P C S ATGACGTGGCAGACGGAGAGGCAGGGCY
47054 P G S CGCGCCGAGGCGAGAGGCAGGGCY
47054 T C S GCCAGCCCTGCCTCTCCTCCCCTCTCCTAGCCTGCTTCTGTCTGGGC
47054 T G S GCCAGCCCTGCCTCTCGTCCCCTCTCCTAGCCTGCTTCTGTCTGGGC
TTTGCCCAAGCAGAGAACTGTTGAGGAAGGTGAGCCTTCCGAGGGCCAGCCCTGCCTCTC[CG]TCCCCTCTCCTAGC
47054 IS [CG] CTGCTTCTGTCTGGGCTGAAGGCACAGCAGGGACAATCGCTCTTCC
47116 I A TTATTCTGAGATCATATATTTCTTAGTTTTGTTTGTAGTTTCCATATCCTTTGTTTTTTTT
47116 P A A CGCGCCGAGGAAAAAAAATATGGTATAGGACTATTTTTTAAY
47116 P G A ATGACGTGGCAGACGAAAAAAATATGGTATAGGACTATTTTTTAY
ACTTTTAAAAAATAGTCCTATACCATATTTTTTTTAAAAAAACAAAGGATATGGAAACTACAAACAAAACTAAGAAATATA
47116 T A A TGATCTCAGAATAA

FIGURE 129D

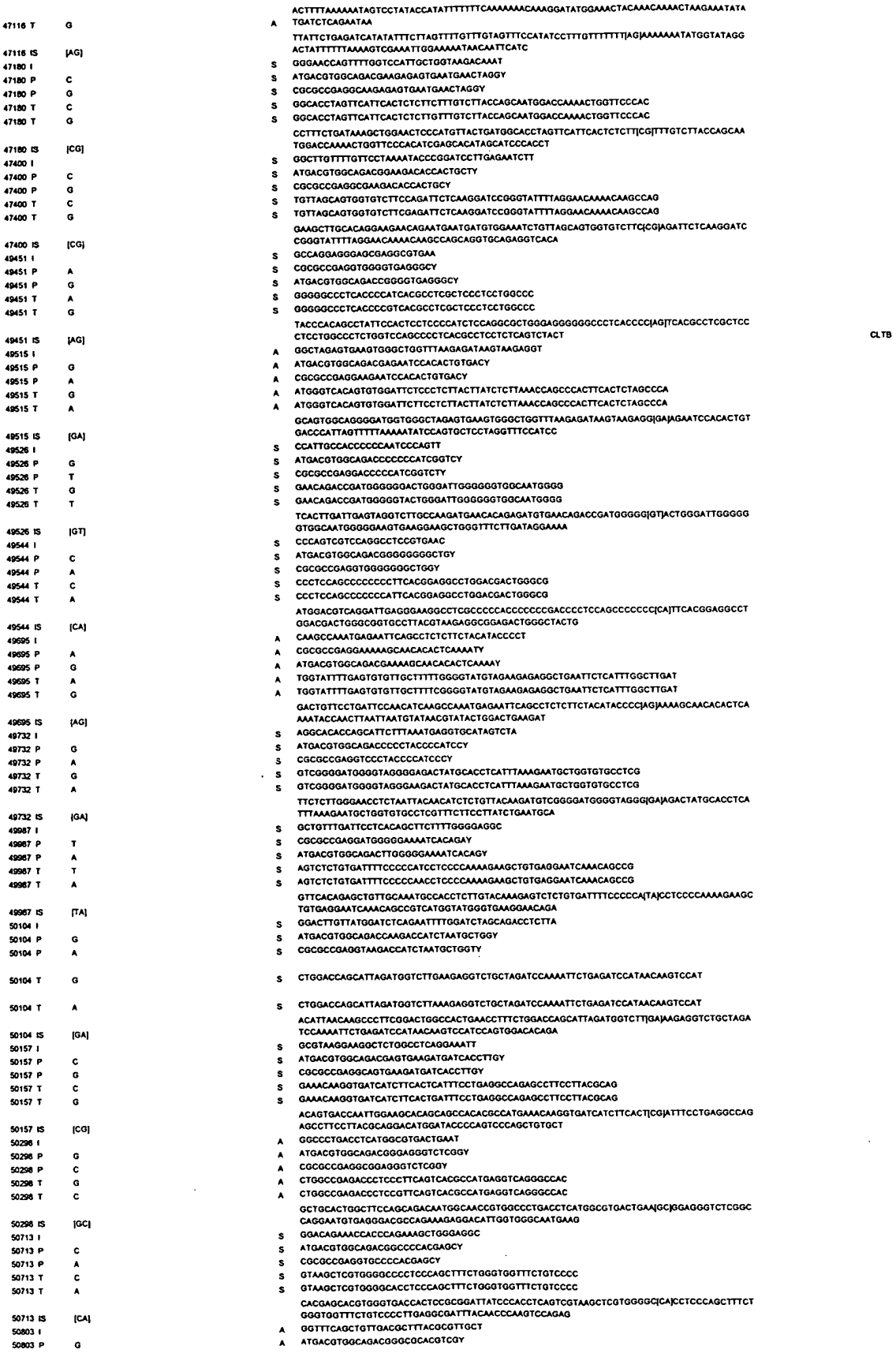
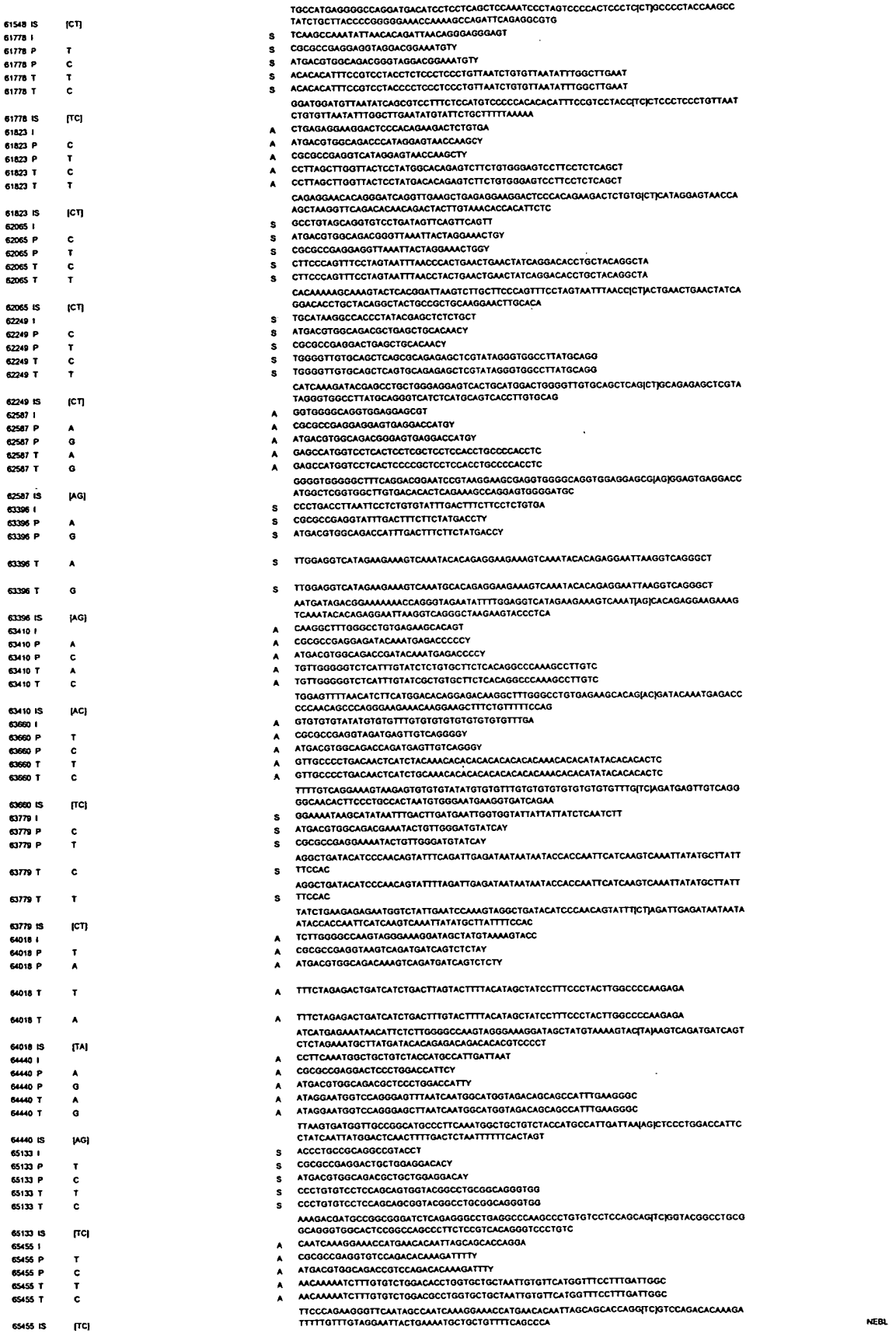

ACTTTTAAAAAATAGTCCTATACCATATTTTTTTCAAAAAACAAAGGATATGGAAACTACAAACAAAACTAAGAAATATA
47116 T G A TGATCTCAGAATAA
TTATTCTGAGATCATATATTTCTTAGTTTTGTTTGTAGTTTCCATATCCTTTGTTTTTTTJAGJAAAAAAATATGGTATAGG
47116 IS [AG] ACTATTTTTTAAAAGTCGAAATTGGAAAAATAACAATTCATC
47180 I S GGGAACCAGTTTTGGTCCATTGCTGGTAAGACAAAT
47180 P C S ATGACGTGGCAGACGAAGAGAGTGAATGAACTAGGY
47180 P G S CGCGCCGAGGCAAGAGAGTGAATGAACTAGGY
47180 T C S GGCACCTAGTTCATTCACTCTCTTCTTTGTCTTACCAGCAATGGACCAAAACTGGTTCCCAC
47180 T G S GGCACCTAGTTCATTCACTCTCTTGTTTGTCTTACCAGCAATGGACCAAAACTGGTTCCCAC
CCTTTCTGATAAAGCTGGAACTCCCATGTTACTGATGGCACCTAGTTCATTCACTCTCTTJCGJTTTGTCTTACCAGCAA
47180 IS [CG] TGGACCAAAACTGGTTCCCACATCGAGCACATAGCATCCCACCT
47400 I S GGCTTGTTTTGTTCCTAAAATACCCGGATCCTTGAGAATCTT
47400 P C S ATGACGTGGCAGACGGAAGACACCACTGCTY
47400 P G S CGCGCCGAGGCGAAGACACCACTGCY
47400 T C S TGTTAGCAGTGGTGTCTTCCAGATTCTCAAGGATCCGGGTATTTTAGGAACAAAACAAGCCAG
47400 T G S TGTTAGCAGTGGTGTCTTCGAGATTCTCAAGGATCCGGGTATTTTAGGAACAAAACAAGCCAG
GAAGCTTGCACAGGAAGAACAGAATGAATGATGTGGAAATCTGTTAGCAGTGGTGTCTTCJCGJAGATTCTCAAGGATC
47400 IS [CG] CGGGTATTTTAGGAACAAAACAAGCCAGCAGGTGCAGAGGTCACA
49451 I S GCCAGGAGGGAGCGAGGCGTGAA
49451 P A S CGCGCCGAGGTGGGGTGAGGGCY
49451 P G S ATGACGTGGCAGACCGGGGTGAGGGCY
49451 T A S GGGGGCCCTCACCCCATCACGCCTCGCTCCCTCCTGGCCC
49451 T G S GGGGGCCCTCACCCCGTCACGCCTCGCTCCCTCCTGGCCC
TACCCACAGCCTATTCCACTCCTCCCCATCTCCAGGCGCTGGGAGGGGGGCCCTCACCCCJAGJTCACGCCTCGCTCC
49451 IS [AG] CTCCTGGCCCTCTGGTCCAGCCCCTCACGCCTCCTCTCAGTCTACT CLTB
49515 I A GGCTAGAGTGAAGTGGGCTGGTTTAAGAGATAAGTAAGAGGT
49515 P G A ATGACGTGGCAGACGAGAATCCACACTGTGACY
49515 P A A CGCGCCGAGGAAGAATCCACACTGTGACY
49515 T G A ATGGGTCACAGTGTGGATTCTCCCTCTTACTTATCTCTTAAACCAGCCCACTTCACTCTAGCCCA
49515 T A A ATGGGTCACAGTGTGGATTCTTCCTCTTACTTATCTCTTAAACCAGCCCACTTCACTCTAGCCCA
GCAGTGGCAGGGGATGGTGGGCTAGAGTGAAGTGGGCTGGTTTAAGAGATAAGTAAGAGGJGAJAGAATCCACACTGT
49515 IS [GA] GACCCATTAGTTTTTAAAAATATCCAGTGCTCCTAGGTTTCCATCC
49526 I S CCATTGCCACCCCCCAATCCCAGTT
49526 P G S ATGACGTGGCAGACCCCCCCATCGGTCY
49526 P T S CGCGCCGAGGACCCCCATCGGTCTY
49526 T G S GAACAGACCGATGGGGGGACTGGGATTGGGGGGTGGCAATGGGG
49526 T T S GAACAGACCGATGGGGGTACTGGGATTGGGGGGTGGCAATGGGG
TCACTTGATTGAGTAGGTCTTGCCAAGATGAACACAGAGATGTGAACAGACCGATGGGGGJGTJACTGGGATTGGGGG
49526 IS [GT] GTGGCAATGGGGGAAGTGAAGGAAGCTGGGTTTCTTGATAGGAAAA
49544 I S CCCAGTCGTCCAGGCCTCCGTGAAC
49544 P C S ATGACGTGGCAGACGGGGGGGGCTGY
49544 P A S CGCGCCGAGGTGGGGGGGCTGGY
49544 T C S CCCTCCAGCCCCCCCCTTCACGGAGGCCTGGACGACTGGGCG
49544 T A S CCCTCCAGCCCCCCCATTCACGGAGGCCTGGACGACTGGGCG
ATGGACGTCAGGATTGAGGGAAGGCCTCGCCCCCACCCCCCCGACCCCTCCAGCCCCCCCJCAJTTCACGGAGGCCT
49544 IS [CA] GGACGACTGGGCGGTGCCTTACGTAAGAGGCGGAGACTGGGCTACTG
49695 I A CAAGCCAAATGAGAATTCAGCCTCTCTTCTACATACCCCT
49695 P A A CGCGCCGAGGAAAAAGCAACACACTCAAAATY
49695 P G A ATGACGTGGCAGACGAAAAGCAACACACTCAAAAY
49695 T A A TGGTATTTTGAGTGTGTTGCTTTTTGGGGGTATGTAGAAGAGAGGCTGAATTCTCATTTGGCTTGAT
49695 T G A TGGTATTTTGAGTGTGTTGCTTTTCGGGGTATGTAGAAGAGAGGCTGAATTCTCATTTGGCTTGAT
GACTGTTCCTGATTCCAACATCAAGCCAAATGAGAATTCAGCCTCTCTTCTACATACCCCJAGJAAAAGCAACACACTCA
49695 IS [AG] AAATACCAACTTAATTAATGTATAACGTATACTGGACTGAAGAT
49732 I S AGGCACACCAGCATTCTTTAAATGAGGTGCATAGTCTA
49732 P G S ATGACGTGGCAGACCCCCTACCCCATCCY
49732 P A S CGCGCCGAGGTCCCTACCCCATCCCY
49732 T G S GTCGGGGATGGGGTAGGGGAGACTATGCACCTCATTTAAAGAATGCTGGTGTGCCTCG
49732 T A S GTCGGGGATGGGGTAGGGAAGACTATGCACCTCATTTAAAGAATGCTGGTGTGCCTCG
TTCTCTTGGGAACCTCTAATTACAACATCTCTGTTACAAGATGTCGGGGATGGGGTAGGGJGAJAGACTATGCACCTCA
49732 IS [GA] TTTAAAGAATGCTGGTGTGCCTCGTTTCTTCCTTATCTGAATGCA
49987 I S GCTGTTTGATTCCTCACAGCTTCTTTTGGGGAGGC
49987 P T S CGCGCCGAGGATGGGGGAAAATCACAGAY
49987 P A S ATGACGTGGCAGACTTGGGGGAAAATCACAGY
49987 T T S AGTCTCTGTGATTTTCCCCCATCCTCCCCAAAAGAAGCTGTGAGGAATCAAACAGCCG
49987 T A S AGTCTCTGTGATTTTCCCCCAACCTCCCCAAAAGAAGCTGTGAGGAATCAAACAGCCG
GTTCACAGAGCTGTTGCAAATGCCACCTCTTGTACAAAGAGTCTCTGTGATTTTCCCCCAJTAJCCTCCCCAAAAGAAGC
49987 IS [TA] TGTGAGGAATCAAACAGCCGTCATGGTATGGGTGAAGGAACAGA
50104 I S GGACTTGTTATGGATCTCAGAATTTTGGATCTAGCAGACCTCTTA
50104 P G S ATGACGTGGCAGACCAAGACCATCTAATGCTGGY
50104 P A S CGCGCCGAGGTAAGACCATCTAATGCTGGTY
50104 T G S CTGGACCAGCATTAGATGGTCTTGAAGAGGTCTGCTAGATCCAAAATTCTGAGATCCATAACAAGTCCAT
50104 T A S CTGGACCAGCATTAGATGGTCTTAAAGAGGTCTGCTAGATCCAAAATTCTGAGATCCATAACAAGTCCAT
ACATTAACAAGCCCTTCGGACTGGCCACTGAACCTTTCTGGACCAGCATTAGATGGTCTTJGAJAAGAGGTCTGCTAGA
50104 IS [GA] TCCAAAATTCTGAGATCCATAACAAGTCCATCCAGTGGACACAGA
50157 I S GCGTAAGGAAGGCTCTGGCCTCAGGAAATT
50157 P C S ATGACGTGGCAGACGAGTGAAGATGATCACCTTGY
50157 P G S CGCGCCGAGGCAGTGAAGATGATCACCTTGY
50157 T C S GAAACAAGGTGATCATCTTCACTCATTTCCTGAGGCCAGAGCCTTCCTTACGCAG
50157 T G S GAAACAAGGTGATCATCTTCACTGATTTCCTGAGGCCAGAGCCTTCCTTACGCAG
ACAGTGACCAATTGGAAGCACAGCAGCCACACGCCATGAAACAAGGTGATCATCTTCACTJCGJATTTCCTGAGGCCAG
50157 IS [CG] AGCCTTCCTTACGCAGGACATGGATACCCCAGTCCCAGCTGTGCT
50296 I A GGCCCTGACCTCATGGCGTGACTGAAT
50296 P G A ATGACGTGGCAGACGGGAGGGTCTCGGY
50296 P C A CGCGCCGAGGCGGAGGGTCTCGGY
50296 T G A CTGGCCGAGACCCTCCCTTCAGTCACGCCATGAGGTCAGGGCCAC
50296 T C A CTGGCCGAGACCCTCCGTTCAGTCACGCCATGAGGTCAGGGCCAC
GCTGCACTGGCTTCCAGCAGACAATGGCAACCGTGGCCCTGACCTCATGGCGTGACTGAAJGCJGGAGGGTCTCGGC
50296 IS [GC] CAGGAATGTGAGGGACGCCAGAAAGAGGACATTGGTGGGCAATGAAG
50713 I S GGACAGAAACCACCCAGAAAGCTGGGAGGC
50713 P C S ATGACGTGGCAGACGGCCCCACGAGCY
50713 P A S CGCGCCGAGGTGCCCCACGAGCY
50713 T C S GTAAGCTCGTGGGGCCCCTCCCAGCTTTCTGGGTGGTTTCTGTCCCC
50713 T A S GTAAGCTCGTGGGGCACCTCCCAGCTTTCTGGGTGGTTTCTGTCCCC
CACGAGCACGTGGGTGACCACTCCGCGGATTATCCCACCTCAGTCGTAAGCTCGTGGGGCJCAJCCTCCCAGCTTTCT
50713 IS [CA] GGGTGGTTTCTGTCCCCTTGAGGCGATTTACAACCCAAGTCCAGAG
50803 I A GGTTTCAGCTGTTGACGCTTTACGCGTTGCT
50803 P G A ATGACGTGGCAGACGGGCGCACGTCGY

FIGURE 129D

50803 P	C	A	CGCGCCGAGGCGGCGCACGTCGY		
50803 T	G	A	GGCCCGACGTGCGCCCGCAACGCGTAAAGCGTCAACAGCTGAAACCCT		
50803 T	C	A	GGCCCGACGTGCGCCGGCAACGCGTAAAGCGTCAACAGCTGAAACCCT		
50803 IS	[GC]		TGGTTGTTTCTGTTCGGGGAGGATTCCGAGGGTTTCAGCTGTTGACGCTTTACGCGTTGC[GC]GGCGCACGTCGGG CCGCTGTTTCCCGAGGGAAGGCAGGTGTGCCTCTGCGTTACAGGGAA		
50894 I		A	CTTCTGGAGGATACGGCTCCATGTTTTTTGTTTTGTTTTGTTA		
50894 P	C	A	ATGACGTGGCAGACCTTTTAATTCCTAACATCAAGGCY		
50894 P	T	A	CGCGCCGAGGTTTTTAATTCCTAACATCAAGGCY		
50894 T	C	A	AATTGCCTTGATGTTAGGAATTAAAAGAACAAAACAAAACAAAAAACATGGAGCCGTATCCTCCAGAAGCT		
50894 T	T	A	AATTGCCTTGATGTTAGGAATTAAAAAAACAAAACAAAACAAAAAACATGGAGCCGTATCCTCCAGAAGCT		
50894 IS	[CT]		CGTTAAATCAGATGTAAGCTTCTGGAGGATACGGCTCCATGTTTTTTGTTTTGTTTTGTT[CT]TTTTAATTCCTAACATC AAGGCAATTTCTGGAACAGAGTGGGTTCTCCTGTTAGTAACCC		
51828 I		S	GCATGCTGCTGCAGGTACCTGTCCCT		
51828 P	C	S	ATGACGTGGCAGACGGCTGCGGCCGY		
51828 P	T	S	CGCGCCGAGGAGCTGCGGCCGY		
51828 T	C	S	GAAACGGCCGCAGCCGGGACAGGTACCTGCAGCAGCATGCGC		
51828 T	T	S	GAAACGGCCGCAGCTGGGACAGGTACCTGCAGCAGCATGCGC		
51828 IS	[CT]		GGCCAAGAAGCCCTCGGGAGAGTTCTCCGATGGGGTTGGTGGGGCAGAAACGGCCGCAGC[CT]GGGACAGGTACCT GCAGCAGCATGCGCAGCCGGGTGATGCGCTGGAAGGGCAGTAGCAGG		
51892 I		A	CCTGGAAGGACATCCATGTTCCGAGAAGAACAGATT		
51892 P	G	A	ATGACGTGGCAGACGATCCCTGTATTTCAAGACCY		
51892 P	A	A	CGCGCCGAGGAATCCCTGTATTTCAAGACCY		
51892 T	G	A	CAGAGGTCTTGAAATACAGGGATCATCTGTTCTTCTCGGAACATGGATGTCCTTCCAGGGA		
51892 T	A	A	CAGAGGTCTTGAAATACAGGGATTATCTGTTCTTCTCGGAACATGGATGTCCTTCCAGGGA		
51892 IS	[GA]		TAGACAGCAAGGCCAGATGCACATCCCTGGAAGGACATCCATGTTCCGAGAAGAACAGAT[GA]ATCCCTGTATTTCAA GACCTCTGTGCACTTATTTATGAACCTGCCCTGCTCCCACAGAAC		PECAM1
52172 I		A	AGAGGCACACACGCACTTGTGCGCT		
52172 P	C	A	ATGACGTGGCAGACCCAGAGGCACACACAY		
52172 P	A	A	CGCGCCGAGGACAGAGGCACACACAY		
52172 T	C	A	CACCTGTGTGTGCCTCTGGGCGCACAAGTGCGTGTGTGCCTCTGT		
52172 T	A	A	CACCTGTGTGTGCCTCTGTGCGCACAAGTGCGTGTGTGCCTCTGT		
52172 IS	[CA]		AGCCACATGCATGTGCACACACATGCACATACACACAGAGGCACACACGCACTTGTGCGC[CA]CAGAGGCACACACA GGTGACACACACAGGTACACACACATATGTGTGTGTGCCATTTTGC		
52320 I		A	GGAGTCAAGCAGTTGGCTCTCCAAACAAA		
52320 P	C	A	ATGACGTGGCAGACCGAAGGCAGCTGGGY		
52320 P	T	A	CGCGCCGAGGTGAAGGCAGCTGGGY		
52320 T	C	A	TCTGCCCAGCTGCCTTCGTTGTTTGGAGAGCCAACTGCTTGACTCCTA		
52320 T	T	A	TCTGCCCAGCTGCCTTCATTGTTTGGAGAGCCAACTGCTTGACTCCTA		
52320 IS	[CT]		ATAGAATGCTTGCCCCCAGAATTTTACATATAGGAGTCAAGCAGTTGGCTCTCCAAACAA[CT]GAAGGCAGCTGGGCA GAGCTCCTGGCAAATGCACAACTTTGAGTAATGCCACTTGTTAAG		
52626 I		S	GTACAAAGGGTAAGTTTTTATATAATGGTGAGAAACAGGAAGAAATGAA		
52626 P	G	S	ATGACGTGGCAGACCAACTGGTTAAGTAAAATTCTGCY		
52626 P	A	S	CGCGCCGAGGTAACTGGTTAAGTAAAATTCTGCY		
52626 T	G	S	ATTTGCAGAATTTTACTTAACCAGTTGTCATTTCTTCCTGTTTCTCACCATTATATAAAAACTTACCCTTTGTACAA		
52626 T	A	S	ATTTGCAGAATTTTACTTAACCAGTTATCATTTCTTCCTGTTTCTCACCATTATATAAAAACTTACCCTTTGTACAA		
52626 IS	[GA]		CCCGCCATGTGTAAATTAAATTCGAATCTAGTTTATTTGCAGAATTTTACTTAACCAGTT[GA]TCATTTCTTCCTGTTTCT CACCATTATATAAAAACTTACCCTTTGTACAAGTATGAAAAA		
52778 I		S	CAGGTGGCTTCAGTAAGTTCCAAGCCGAGTTCC		
52778 P	A	S	CGCGCCGAGGTCCCTGCATTGCGAY		
52778 P	C	S	ATGACGTGGCAGACGCCCTGCATTGCGY		
52778 T	A	S	GGTCTCGCAATGCAGGGAGAACTCGGCTTGGAACTTACTGAAGCCACCTGCC		
52778 T	C	S	GGTCTCGCAATGCAGGGCGAACTCGGCTTGGAACTTACTGAAGCCACCTGCC		
52778 IS	[AC]		CTGGCAACGGCGGCGAGCTGCTGCTACACGAGCCGTCTAGATTGGTCTCGCAATGCAGGG[AC]GAACTCGGCTTGG AACTTACTGAAGCCACCTGCCAGAACGAGAAAAGCAATCATCTAACC		
52802 I		S	CAGACGTGAGAGGGACGGTTCACAAAGCTA		
52802 P	A	S	CGCGCCGAGGTGGACCTGCCGTGY		
52802 P	G	S	ATGACGTGGCAGACCGGACCTGCCGTGY		
52802 T	A	S	CCTCCACGGCAGGTCCAAGCTTTGTGAACCGTCCCTCTCACGTCTGCT		
52802 T	G	S	CCTCCACGGCAGGTCCGAGCTTTGTGAACCGTCCCTCTCACGTCTGCT		
52802 IS	[AG]		CAAGCCTCGTGAGCCGTCCCTCTCACGCCACGTCTGCCGGGCACCCTCCACGGCAGGTCC[AG]AGCTTTGTGAACC GTCCCTCTCACGTCTGCTTTGAGGGTTTGTGTCAATGGGGCTGTGCA		KCNQ2
61260 I		A	GGCAAGCAGAGCCGAGGCTCCCT		
61260 P	G	A	ATGACGTGGCAGACGGGGAGGAGAGCCAY		
61260 P	A	A	CGCGCCGAGGAGGGAGGAGAGCCAY		
61260 T	G	A	CACGTGGCTCTCCTCCCCGGGAGCCTCGGCTCTGCTTGCCTT		
61260 T	A	A	CACGTGGCTCTCCTCCCTGGGAGCCTCGGCTCTGCTTGCCTT		
61260 IS	[GA]		CGTGAGAAGTGTGAGGGGATGGGGGAAGATGCACCAAAGGCAAGCAGAGCCGAGGCTCCC[GA]GGGAGGAGAGCC ACGTGGCTGACCTGCACACACACACGCAGTGGCCCGGGTGTTGTGGTG		
61358 I		A	GATGGGGTGGGGAGAGAAAAGCAAAGGATGAT		
61358 P	G	A	ATGACGTGGCAGACGGGGGCGAGGACY		
61358 P	C	A	CGCGCCGAGGCGGGGCGAGGACY		
61358 T	G	A	CAGGGTCCTCGCCCCCTCATCCTTTGCTTTTCTCTCCCCACCCCATCCT		
61358 T	C	A	CAGGGTCCTCGCCCCCGTCATCCTTTGCTTTTCTCTCCCCACCCCATCCT		
61358 IS	[GC]		CCGGAGGCCCTGTGGAAGTTTAGGCAAAGGATGGGGTGGGGAGAGAAAAGCAAAGGATGA[GC]GGGGCGAGGACC CTGGGTCCTCAAGGTGAGAGGCGCCCGGAAGGACGATGGATGGAGTTG		
61379 I		A	CGAGAGGAACAGACACCCTAGTGATGACAAGAGGAT		
61379 P	A	A	CGCGCCGAGGAGGAAGGAGGCCCAY		
61379 P	G	A	ATGACGTGGCAGACGGGAAGGAGGCCCY		
61379 T	A	A	TAACTGGGCCTCCTTCCTTCCTCTTGTCATCACTAGGGTGTCTGTTCCTCTCGCC		
61379 T	G	A	TAACTGGGCCTCCTTCCCTCCTCTTGTCATCACTAGGGTGTCTGTTCCTCTCGCC		
61379 IS	[AG]		ACTGAGGGCTAAGTCAAAACCCTGGCGAGAGGAACAGACACCCTAGTGATGACAAGAGGA[AG]GGAAGGAGGCCCA GTTAGGTCATACTTTCCCCTCCCTGCAGCCTGCTGCTCCAAGGACCC		
61529 I		S	AGACGGCAGCAAGCAACAGCCCAGT		
61529 P	G	S	CGCGCCGAGGCGGGCCAGGCTGY		
61529 P	C	S	ATGACGTGGCAGACGGGGCCAGGCTGY		
61529 T	G	S	AGGGCAGCCTGGCCCGCTGGGCTGTTGCTTGCTGCCGTCTCC		
61529 T	C	S	AGGGCAGCCTGGCCCCCTGGGCTGTTGCTTGCTGCCGTCTCC		
61529 IS	[GC]		CACAACCAGTGCCAGGAGGTCCTGCACCACATCAGGTGAGCATCCAGGGCAGCCTGGCCC[GC]CTGGGCTGTTGCT TGCTGCCGTCTCCTTCAGAAGCTCAAGGTGGACACTGGGGTAGTTAC		
61548 I		A	AGCTCCAAATCCCTAGTCCCCACTCCCTCA		
61548 P	C	A	ATGACGTGGCAGACCGCCCCTACCAAGCY		
61548 P	T	A	CGCGCCGAGGTGCCCCTACCAAGCY		
61548 T	C	A	ATAGGCTTGGTAGGGGCGGAGGGAGTGGGGACTAGGGATTTGGAGCTGA		
61548 T	T	A	ATAGGCTTGGTAGGGGCAGAGGGAGTGGGGACTAGGGATTTGGAGCTGA		

FIGURE 129D



NEBL

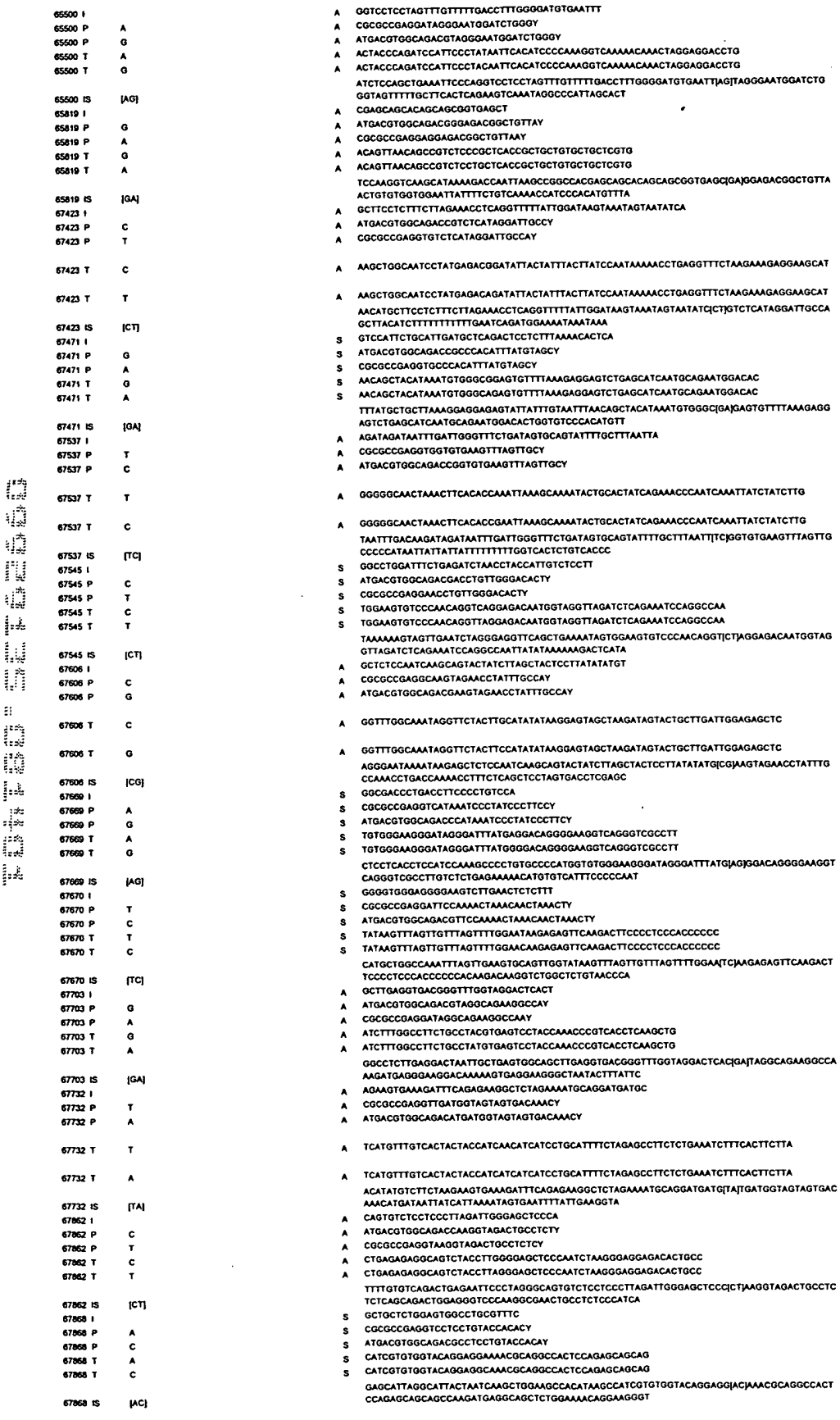


FIGURE 129D

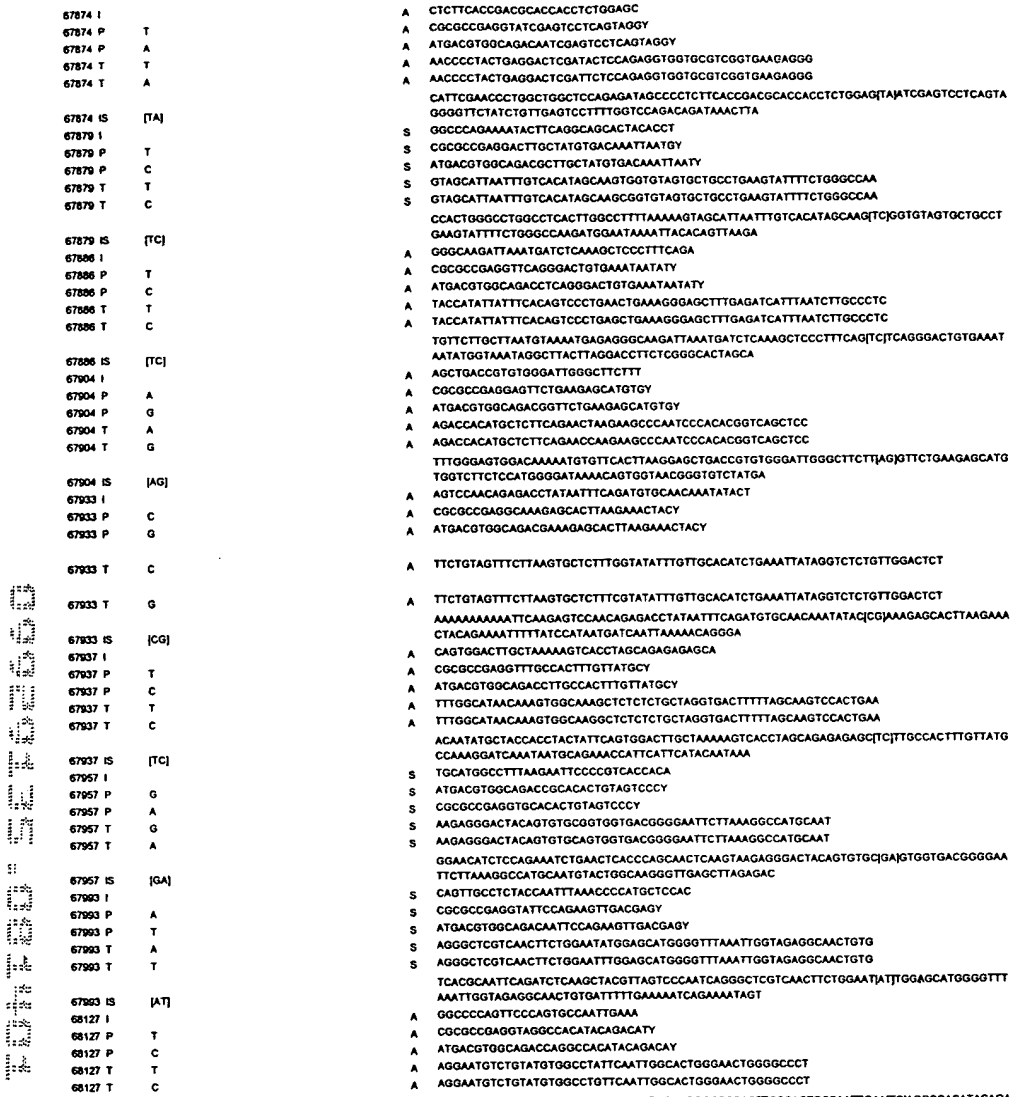

67874 I A CTCTTCACCGACGCACCACCTCTGGAGC
67874 P T A CGCGCCGAGGTATCGAGTCCTCAGTAGGY
67874 P A A ATGACGTGGCAGACAATCGAGTCCTCAGTAGGY
67874 T T A AACCCCTACTGAGGACTCGATACTCCAGAGGTGGTGCGTCGGTGAAGAGGG
67874 T A A AACCCCTACTGAGGACTCGATTCTCCAGAGGTGGTGCGTCGGTGAAGAGGG
CATTCGAACCCTGGCTGGCTCCAGAGATAGCCCCTCTTCACCGACGCACCACCTCTGGAG[TA]ATCGAGTCCTCAGTA
67874 IS [TA] GGGGTTCTATCTGTTGAGTCCTTTTGGTCCAGACAGATAAACTTA
67879 I S GGCCCAGAAAATACTTCAGGCAGCACTACACCT
67879 P T S CGCGCCGAGGACTTGCTATGTGACAAATTAATGY
67879 P C S ATGACGTGGCAGACGCTTGCTATGTGACAAATTAATY
67879 T T S GTAGCATTAATTTGTCACATAGCAAGTGGTGTAGTGCTGCCTGAAGTATTTTCTGGGCCAA
67879 T C S GTAGCATTAATTTGTCACATAGCAAGCGGTGTAGTGCTGCCTGAAGTATTTTCTGGGCCAA
CCACTGGGCCTGGCCTCACTTGGCCTTTTAAAAAGTAGCATTAATTTGTCACATAGCAAG[TC]GGTGTAGTGCTGCCT
67879 IS [TC] GAAGTATTTTCTGGGCCAAGATGGAATAAAATTACACAGTTAAGA
67886 I A GGGCAAGATTAAATGATCTCAAAGCTCCCTTTCAGA
67886 P T A CGCGCCGAGGTTCAGGGACTGTGAAATAATATY
67886 P C A ATGACGTGGCAGACCTCAGGGACTGTGAAATAATATY
67886 T T A TACCATATTATTTCACAGTCCCTGAACTGAAAGGGAGCTTTGAGATCATTTAATCTTGCCCTC
67886 T C A TACCATATTATTTCACAGTCCCTGAGCTGAAAGGGAGCTTTGAGATCATTTAATCTTGCCCTC
TGTTCTTGCTTAATGTAAAATGAGAGGGCAAGATTAAATGATCTCAAAGCTCCCTTTCAG[TC]TCAGGGACTGTGAAAT
67886 IS [TC] AATATGGTAAATAGGCTTACTTAGGACCTTCTCGGGCACTAGCA
67904 I A AGCTGACCGTGTGGGATTGGGCTTCTTT
67904 P A A CGCGCCGAGGAGTTCTGAAGAGCATGTGY
67904 P G A ATGACGTGGCAGACGGTTCTGAAGAGCATGTGY
67904 T A A AGACCACATGCTCTTCAGAACTAAGAAGCCCAATCCCACACGGTCAGCTCC
67904 T G A AGACCACATGCTCTTCAGAACCAAGAAGCCCAATCCCACACGGTCAGCTCC
TTTGGGAGTGGACAAAAATGTGTTCACTTAAGGAGCTGACCGTGTGGGATTGGGCTTCTT[AG]GTTCTGAAGAGCATG
67904 IS [AG] TGGTCTTCTCCATGGGGATAAAACAGTGGTAACGGGTGTCTATGA
67933 I A AGTCCAACAGAGACCTATAATTTCAGATGTGCAACAAATATACT
67933 P C A CGCGCCGAGGCAAAGAGCACTTAAGAAACTACY
67933 P G A ATGACGTGGCAGACGAAAGAGCACTTAAGAAACTACY
67933 T C A TTCTGTAGTTTCTTAAGTGCTCTTTGGTATATTTGTTGCACATCTGAAATTATAGGTCTCTGTTGGACTCT
67933 T G A TTCTGTAGTTTCTTAAGTGCTCTTTCGTATATTTGTTGCACATCTGAAATTATAGGTCTCTGTTGGACTCT
AAAAAAAAAAATTCAAGAGTCCAACAGAGACCTATAATTTCAGATGTGCAACAAATATAC[CG]AAAGAGCACTTAAGAAA
67933 IS [CG] CTACAGAAAATTTTTATCCATAATGATCAATTAAAAACAGGGA
67937 I A CAGTGGACTTGCTAAAAAGTCACCTAGCAGAGAGAGCA
67937 P T A CGCGCCGAGGTTTGCCACTTTGTTATGCY
67937 P C A ATGACGTGGCAGACCTTGCCACTTTGTTATGCY
67937 T T A TTTGGCATAACAAAGTGGCAAAGCTCTCTCTGCTAGGTGACTTTTTAGCAAGTCCACTGAA
67937 T C A TTTGGCATAACAAAGTGGCAAGGCTCTCTCTGCTAGGTGACTTTTTAGCAAGTCCACTGAA
ACAATATGCTACCACCTACTATTCAGTGGACTTGCTAAAAAGTCACCTAGCAGAGAGAGC[TC]TTGCCACTTTGTTATG
67937 IS [TC] CCAAAGGATCAAATAATGCAGAAACCATTCATTCATACAATAAA
67957 I S TGCATGGCCTTTAAGAATTCCCCGTCACCACA
67957 P G S ATGACGTGGCAGACCGCACACTGTAGTCCCY
67957 P A S CGCGCCGAGGTGCACACTGTAGTCCCY
67957 T G S AAGAGGGACTACAGTGTGCGGTGGTGACGGGGAATTCTTAAAGGCCATGCAAT
67957 T A S AAGAGGGACTACAGTGTGCAGTGGTGACGGGGAATTCTTAAAGGCCATGCAAT
GGAACATCTCCAGAAATCTGAACTCACCCAGCAACTCAAGTAAGAGGGACTACAGTGTGC[GA]GTGGTGACGGGGAA
67957 IS [GA] TTCTTAAAGGCCATGCAATGTACTGGCAAGGGTTGAGCTTAGAGAC
67993 I S CAGTTGCCTCTACCAATTTAAACCCCATGCTCCAC
67993 P A S CGCGCCGAGGTATTCCAGAAGTTGACGAGY
67993 P T S ATGACGTGGCAGACAATTCCAGAAGTTGACGAGY
67993 T A S AGGGCTCGTCAACTTCTGGAATATGGAGCATGGGGTTTAAATTGGTAGAGGCAACTGTG
67993 T T S AGGGCTCGTCAACTTCTGGAATTTGGAGCATGGGGTTTAAATTGGTAGAGGCAACTGTG
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67993 IS [AT] AAATTGGTAGAGGCAACTGTGATTTTTGAAAAATCAGAAAATAGT
68127 I A GGCCCCAGTTCCCAGTGCCAATTGAAA
68127 P T A CGCGCCGAGGTAGGCCACATACAGACATY
68127 P C A ATGACGTGGCAGACCAGGCCACATACAGACAY
68127 T T A AGGAATGTCTGTATGTGGCCTATTCAATTGGCACTGGGAACTGGGGCCCT
68127 T C A AGGAATGTCTGTATGTGGCCTGTTCAATTGGCACTGGGAACTGGGGCCCT
TCTGGTTCCAGGCCCGTGAAGCTGGTCCTGCCAGGGCCCCAGTTCCCAGTGCCAATTGAA[TC]AGGCCACATACAGA
68127 IS [TC] CATTCCTCAAAAGTAGAGTTAATTAGAGGCTCAAGAACATGCAAAC
68174 I S TGGCTTTCAGGAGTCTTCTGTATTGTATCAGGAGGGTC
68174 P A S CGCGCCGAGGTTTAAGCCTCAGGTGTTCY
68174 P T S ATGACGTGGCAGACATTAAGCCTCAGGTGTTCY
68174 T A S CAGTGAACACCTGAGGCTTAAAACCCTCCTGATACAATACAGAAGACTCCTGAAAGCCATA
68174 T T S CAGTGAACACCTGAGGCTTAATACCCTCCTGATACAATACAGAAGACTCCTGAAAGCCATA
TCTCCCAGTTTCCCTCCACTGGGAGCTTTGGATACATCTCAGTGAACACCTGAGGCTTAA[AT]ACCCTCCTGATACAAT
68174 IS [AT] ACAGAAGACTCCTGAAAGCCATATATAGGATTCAAATCCTGCCA
68197 I A GAGCAATTGACTGGGAGCTGGGAACAGGAAC
68197 P T A CGCGCCGAGGTGAAAAGGAAGAGCTGATAAGY
68197 P A A ATGACGTGGCAGACAGAAAAGGAAGAGCTGATAAGY
68197 T T A GTTTCTTATCAGCTCTTCCTTTTCATTCCTGTTCCCAGCTCCCAGTCAATTGCTCTG
68197 T A A GTTTCTTATCAGCTCTTCCTTTTCTTTCCTGTTCCCAGCTCCCAGTCAATTGCTCTG
ACAGCCTTGGGGGTAGTGGCAAGGTGGCCAGAGCAATTGACTGGGAGCTGGGAACAGGAA[TA]GAAAAGGAAGAGC
68197 IS [TA] TGATAAGAAACATGCCCAGAGCAGGTAAGCACCTCTATCCCTCCAAT
68305 I A CCAAGAAGGGGCAATCGGCTTCGAAGCT
68305 P C A CGCGCCGAGGCTGATGGCAGCAACTGY
68305 P G A ATGACGTGGCAGACGTGATGGCAGCAACTGY
68305 T C A ACCGCAGTTGCTGCCATCAGGCTTCGAAGCCGATTGCCCCTTCTTGGGG
68305 T G A ACCGCAGTTGCTGCCATCACGCTTCGAAGCCGATTGCCCCTTCTTGGGG
GAAACACTTTTTTTTTTAGTCTTCACAATTTCCCCAAGAAGGGGCAATCGGCTTCGAAGC[CG]TGATGGCAGCAACTG
68305 IS [CG] CGGTACAAGCACAAGGGGCGCCTCTAGTGGTCAGCTGGGAAATCG
68442 I S CCTCCCGTGATCCGCGCTCTTAAGCACTTAAAATTAC
68442 P A S CGCGCCGAGGTTTGGGAGGAAAAATTATTAAGATTY
68442 P C S ATGACGTGGCAGACGTTGGGAGGAAAAATTATTAAGATY
68442 T A S AAGAAATCTTAATAATTTTTCCTCCCAAATAATTTTAAGTGCTTAAGAGCGCGGATCACGGGAGGTT
68442 T C S AAGAAATCTTAATAATTTTTCCTCCCAACTAATTTTAAGTGCTTAAGAGCGCGGATCACGGGAGGTT
GGAGAATAGATTTTTTAACATAAGAAGTCGATAAGAAATCTTAATAATTTTTCCTCCCAA[AC]TAATTTTAAGTGCTTAAG
68442 IS [AC] AGCGCGGATCACGGGAGGTTTCCTCTCTTTTACTTATATGAA
68502 I S CCTAACACCTGAGTTAAGGAATAAACTAATAGAGGAAAGAAAGAAAAATAACTTTT
68502 P T S CGCGCCGAGGAGACATGAAAATATTTGTTCAGAAAY
68502 P C S ATGACGTGGCAGACGGACATGAAAATATTTGTTCAGAY

FIGURE 129D

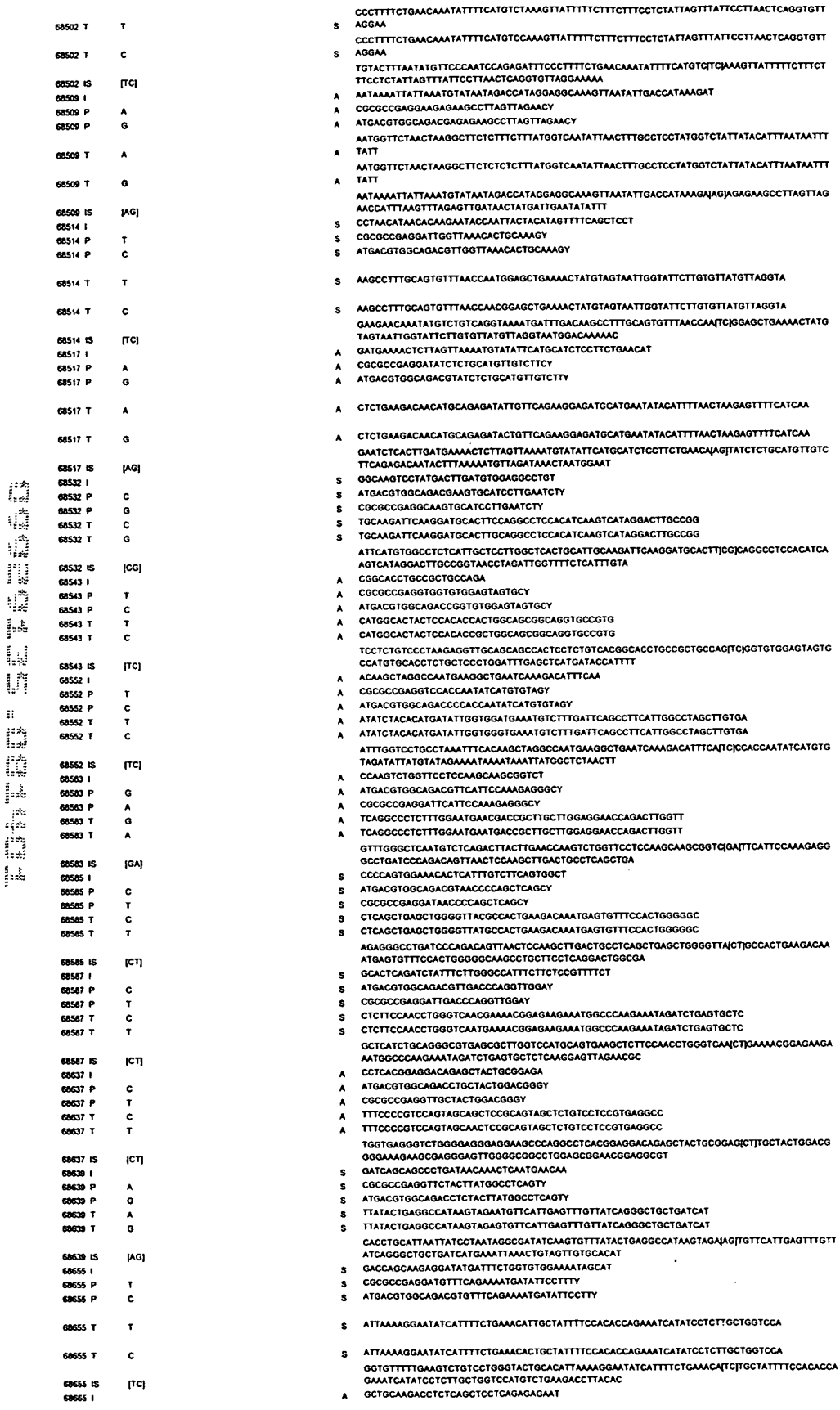
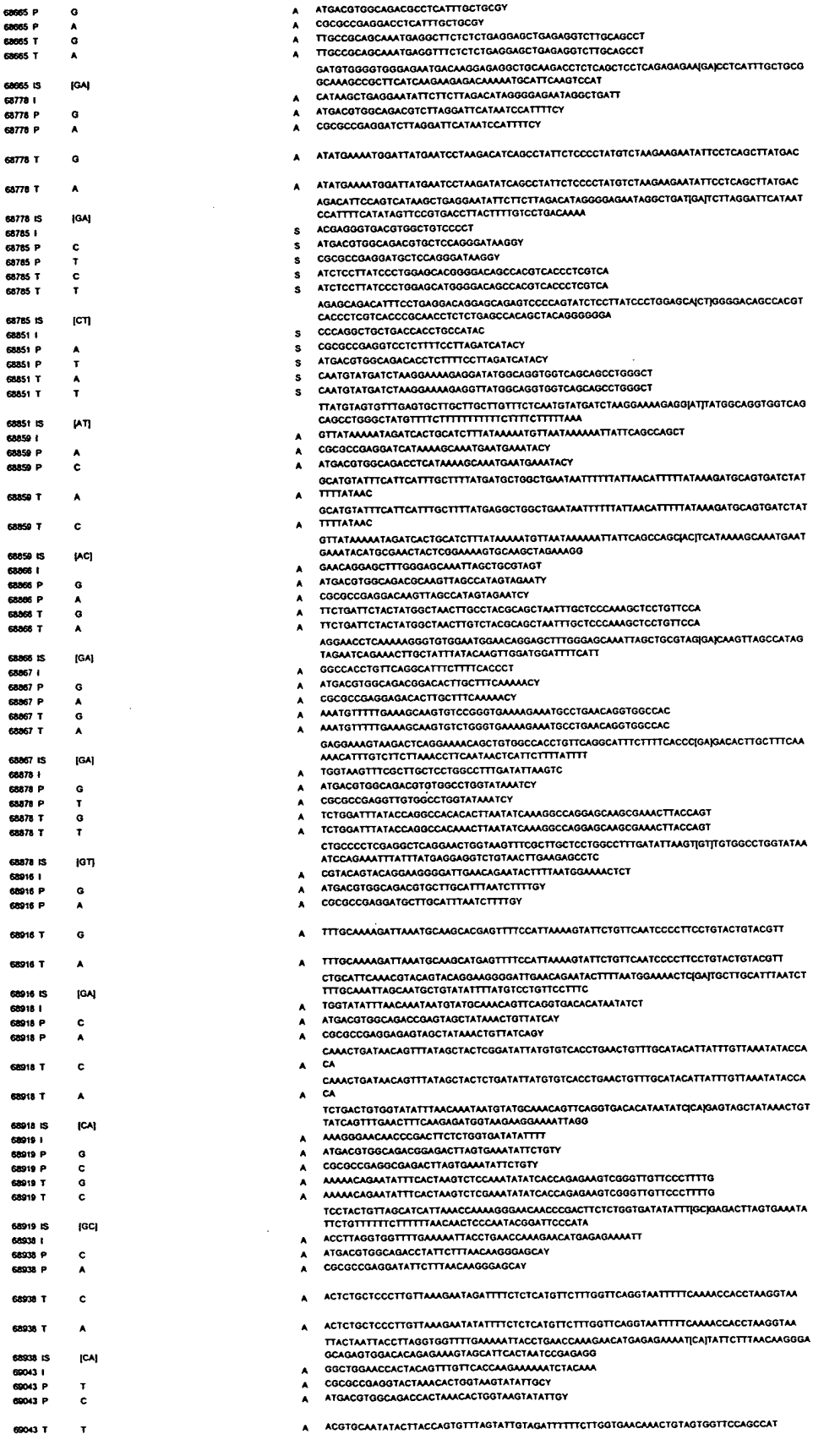


FIGURE 129D


68865 P G A ATGACGTGGCAGACGCCTCATTTGCTGCGY
68865 P A A CGCGCCGAGGACCTCATTTGCTGCGY
68865 T G A TTGCCGCAGCAAATGAGGCTTCTCTCTGAGGAGCTGAGAGGTCTTGCAGCCT
68865 T A A TTGCCGCAGCAAATGAGGTTTCTCTCTGAGGAGCTGAGAGGTCTTGCAGCCT
68865 IS [GA] GATGTGGGGTGGGAGAATGACAAGGAGAGGCTGCAAGACCTCTCAGCTCCTCAGAGAGAA[GA]CCTCATTTGCTGCG
GCAAAGCCGCTTCATCAAGAAGAGACAAAAATGCATTCAAGTCCAT
68778 I A CATAAGCTGAGGAATATTCTTCTTAGACATAGGGGAGAATAGGCTGATT
68778 P G A ATGACGTGGCAGACGTCTTAGGATTCATAATCCATTTTCY
68778 P A A CGCGCCGAGGATCTTAGGATTCATAATCCATTTTCY
68778 T G A ATATGAAAATGGATTATGAATCCTAAGACATCAGCCTATTCTCCCCTATGTCTAAGAAGAATATTCCTCAGCTTATGAC
68778 T A A ATATGAAAATGGATTATGAATCCTAAGATATCAGCCTATTCTCCCCTATGTCTAAGAAGAATATTCCTCAGCTTATGAC
68778 IS [GA] AGACATTCCAGTCATAAGCTGAGGAATATTCTTCTTAGACATAGGGGAGAATAGGCTGAT[GA]TCTTAGGATTCATAAT
CCATTTTCATATAGTTCCGTGACCTTACTTTTGTCCTGACAAAA
68785 I S ACGAGGGTGACGTGGCTGTCCCCT
68785 P C S ATGACGTGGCAGACGTGCTCCAGGGATAAGGY
68785 P T S CGCGCCGAGGATGCTCCAGGGATAAGGY
68785 T C S ATCTCCTTATCCCTGGAGCACGGGGACAGCCACGTCACCCTCGTCA
68785 T T S ATCTCCTTATCCCTGGAGCATGGGGACAGCCACGTCACCCTCGTCA
68785 IS [CT] AGAGCAGACATTTCCTGAGGACAGGAGCAGAGTCCCCAGTATCTCCTTATCCCTGGAGCA[CT]GGGGACAGCCACGT
CACCCTCGTCACCCGCAACCTCTCTGAGCCACAGCTACAGGGGGGA
68851 I S CCCAGGCTGCTGACCACCTGCCATAC
68851 P A S CGCGCCGAGGTCCTCTTTTCCTTAGATCATACY
68851 P T S ATGACGTGGCAGACACCTCTTTTCCTTAGATCATACY
68851 T A S CAATGTATGATCTAAGGAAAAGAGGATATGGCAGGTGGTCAGCAGCCTGGGCT
68851 T T S CAATGTATGATCTAAGGAAAAGAGGTTATGGCAGGTGGTCAGCAGCCTGGGCT
68851 IS [AT] TTATGTAGTGTTTGAGTGCTTGCTTGCTTGTTTCTCAATGTATGATCTAAGGAAAAGAGG[AT]TATGGCAGGTGGTCAG
CAGCCTGGGCTATGTTTTCTTTTTTTTTTCTTTTCTTTTTAAA
68859 I A GTTATAAAAATAGATCACTGCATCTTTATAAAAATGTTAATAAAAAATTATTCAGCCAGCT
68859 P A A CGCGCCGAGGATCATAAAAGCAAATGAATGAAATACY
68859 P C A ATGACGTGGCAGACCTCATAAAAGCAAATGAATGAAATACY
68859 T A A GCATGTATTTCATTCATTTGCTTTTATGATGCTGGCTGAATAATTTTTTATTAACATTTTTATAAAGATGCAGTGATCTAT
TTTTATAAC
68859 T C A GCATGTATTTCATTCATTTGCTTTTATGAGGCTGGCTGAATAATTTTTTATTAACATTTTTATAAAGATGCAGTGATCTAT
TTTTATAAC
68859 IS [AC] GTTATAAAAATAGATCACTGCATCTTTATAAAAATGTTAATAAAAAATTATTCAGCCAGC[AC]TCATAAAAGCAAATGAAT
GAAATACATGCGAACTACTCGGAAAAGTGCAAGCTAGAAAGG
68866 I A GAACAGGAGCTTTGGGAGCAAATTAGCTGCGTAGT
68866 P G A ATGACGTGGCAGACGCAAGTTAGCCATAGTAGAATY
68866 P A A CGCGCCGAGGACAAGTTAGCCATAGTAGAATCY
68866 T G A TTCTGATTCTACTATGGCTAACTTGCCTACGCAGCTAATTTGCTCCCAAAGCTCCTGTTCCA
68866 T A A TTCTGATTCTACTATGGCTAACTTGTCTACGCAGCTAATTTGCTCCCAAAGCTCCTGTTCCA
68866 IS [GA] AGGAACCTCAAAAAGGGTGTGGAATGGAACAGGAGCTTTGGGAGCAAATTAGCTGCGTAG[GA]CAAGTTAGCCATAG
TAGAATCAGAAACTTGCTATTTATACAAGTTGGATGGATTTTCATT
68867 I A GGCCACCTGTTCAGGCATTTCTTTTCACCCT
68867 P G A ATGACGTGGCAGACGGACACTTGCTTTCAAAAACY
68867 P A A CGCGCCGAGGAGACACTTGCTTTCAAAAACY
68867 T G A AAATGTTTTTGAAAGCAAGTGTCCGGGTGAAAAGAAATGCCTGAACAGGTGGCCAC
68867 T A A AAATGTTTTTGAAAGCAAGTGTCTGGGTGAAAAGAAATGCCTGAACAGGTGGCCAC
68867 IS [GA] GAGGAAAGTAAGACTCAGGAAAACAGCTGTGGCCACCTGTTCAGGCATTTCTTTTCACCC[GA]GACACTTGCTTTCAA
AAACATTTGTCTTCTTAAACCTTCAATAACTCATTCTTTTATTTT
68878 I A TGGTAAGTTTCGCTTGCTCCTGGCCTTTGATATTAAGTC
68878 P G A ATGACGTGGCAGACGTGTGGCCTGGTATAAATCY
68878 P T A CGCGCCGAGGTTGTGGCCTGGTATAAATCY
68878 T G A TCTGGATTTATACCAGGCCACACACTTAATATCAAAGGCCAGGAGCAAGCGAAACTTACCAGT
68878 T T A TCTGGATTTATACCAGGCCACAAACTTAATATCAAAGGCCAGGAGCAAGCGAAACTTACCAGT
68878 IS [GT] CTGCCCCTCGAGGCTCAGGAACTGGTAAGTTTCGCTTGCTCCTGGCCTTTGATATTAAGT[GT]TGTGGCCTGGTATAA
ATCCAGAAATTTATTTATGAGGAGGTCTGTAACTTGAAGAGCCTC
68916 I A CGTACAGTACAGGAAGGGGATTGAACAGAATACTTTTAATGGAAAACTCT
68916 P G A ATGACGTGGCAGACGTGCTTGCATTTAATCTTTTGY
68916 P A A CGCGCCGAGGATGCTTGCATTTAATCTTTTGY
68916 T G A TTTGCAAAAGATTAAATGCAAGCACGAGTTTTCCATTAAAAGTATTCTGTTCAATCCCCTTCCTGTACTGTACGTT
68916 T A A TTTGCAAAAGATTAAATGCAAGCATGAGTTTTCCATTAAAAGTATTCTGTTCAATCCCCTTCCTGTACTGTACGTT
68916 IS [GA] CTGCATTCAAACGTACAGTACAGGAAGGGGATTGAACAGAATACTTTTAATGGAAAACTC[GA]TGCTTGCATTTAATCT
TTTGCAAATTAGCAATGCTGTATATTTTATGTCCTGTTCCTTTC
68918 I A TGGTATATTTAACAAATAATGTATGCAAACAGTTCAGGTGACACATAATATCT
68918 P C A ATGACGTGGCAGACCGAGTAGCTATAAACTGTTATCAY
68918 P A A CGCGCCGAGGAGAGTAGCTATAAACTGTTATCAGY
68918 T C A CAAACTGATAACAGTTTATAGCTACTCGGATATTATGTGTCACCTGAACTGTTTGCATACATTATTTGTTAAATATACCA
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68918 T A A CAAACTGATAACAGTTTATAGCTACTCTGATATTATGTGTCACCTGAACTGTTTGCATACATTATTTGTTAAATATACCA
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68918 IS [CA] TCTGACTGTGGTATATTTAACAAATAATGTATGCAAACAGTTCAGGTGACACATAATATC[CA]GAGTAGCTATAAACTGT
TATCAGTTTGAACTTTCAAGAGATGGTAAGAAGGAAAATTAGG
68919 I A AAAGGGAACAACCCGACTTCTCTGGTGATATATTTT
68919 P G A ATGACGTGGCAGACGGAGACTTAGTGAAATATTCTGTY
68919 P C A CGCGCCGAGGCGAGACTTAGTGAAATATTCTGTY
68919 T G A AAAAACAGAATATTTCACTAAGTCTCCAAATATATCACCAGAGAAGTCGGGTTGTTCCCTTTTG
68919 T C A AAAAACAGAATATTTCACTAAGTCTCGAAATATATCACCAGAGAAGTCGGGTTGTTCCCTTTTG
68919 IS [GC] TCCTACTGTTAGCATCATTAAACCAAAAGGGAACAACCCGACTTCTCTGGTGATATATTT[GC]GAGACTTAGTGAAATA
TTCTGTTTTTTCTTTTTTAACAACTCCCAATACGGATTCCCATA
68938 I A ACCTTAGGTGGTTTTGAAAAATTACCTGAACCAAAGAACATGAGAGAAAATT
68938 P C A ATGACGTGGCAGACCTATTCTTTAACAAGGGAGCAY
68938 P A A CGCGCCGAGGATATTCTTTAACAAGGGAGCAY
68938 T C A ACTCTGCTCCCTTGTTAAAGAATAGATTTTCTCTCATGTTCTTTGGTTCAGGTAATTTTTCAAAACCACCTAAGGTAA
68938 T A A ACTCTGCTCCCTTGTTAAAGAATATATTTTCTCTCATGTTCTTTGGTTCAGGTAATTTTTCAAAACCACCTAAGGTAA
68938 IS [CA] TTACTAATTACCTTAGGTGGTTTTGAAAAATTACCTGAACCAAAGAACATGAGAGAAAAT[CA]TATTCTTTAACAAGGGA
GCAGAGTGGACACAGAGAAAGTAGCATTCACTAATCCGAGAGG
69043 I A GGCTGGAACCACTACAGTTTGTTCACCAAGAAAAAATCTACAAA
69043 P T A CGCGCCGAGGTACTAAACACTGGTAAGTATATTGCY
69043 P C A ATGACGTGGCAGACCACTAAACACTGGTAAGTATATTGY
69043 T T A ACGTGCAATATACTTACCAGTGTTTAGTATTGTAGATTTTTTCTTGGTGAACAAACTGTAGTGGTTCCAGCCAT

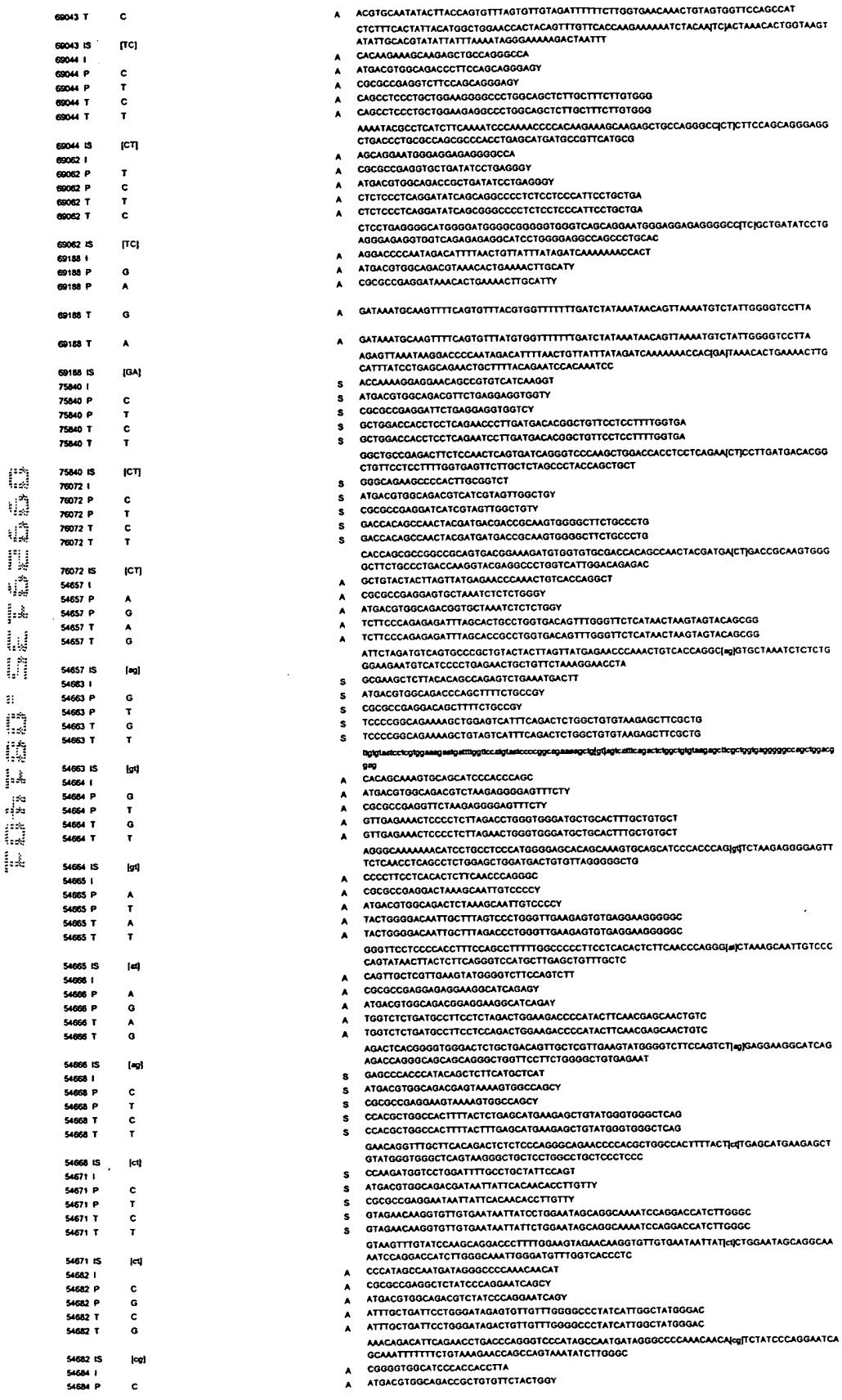
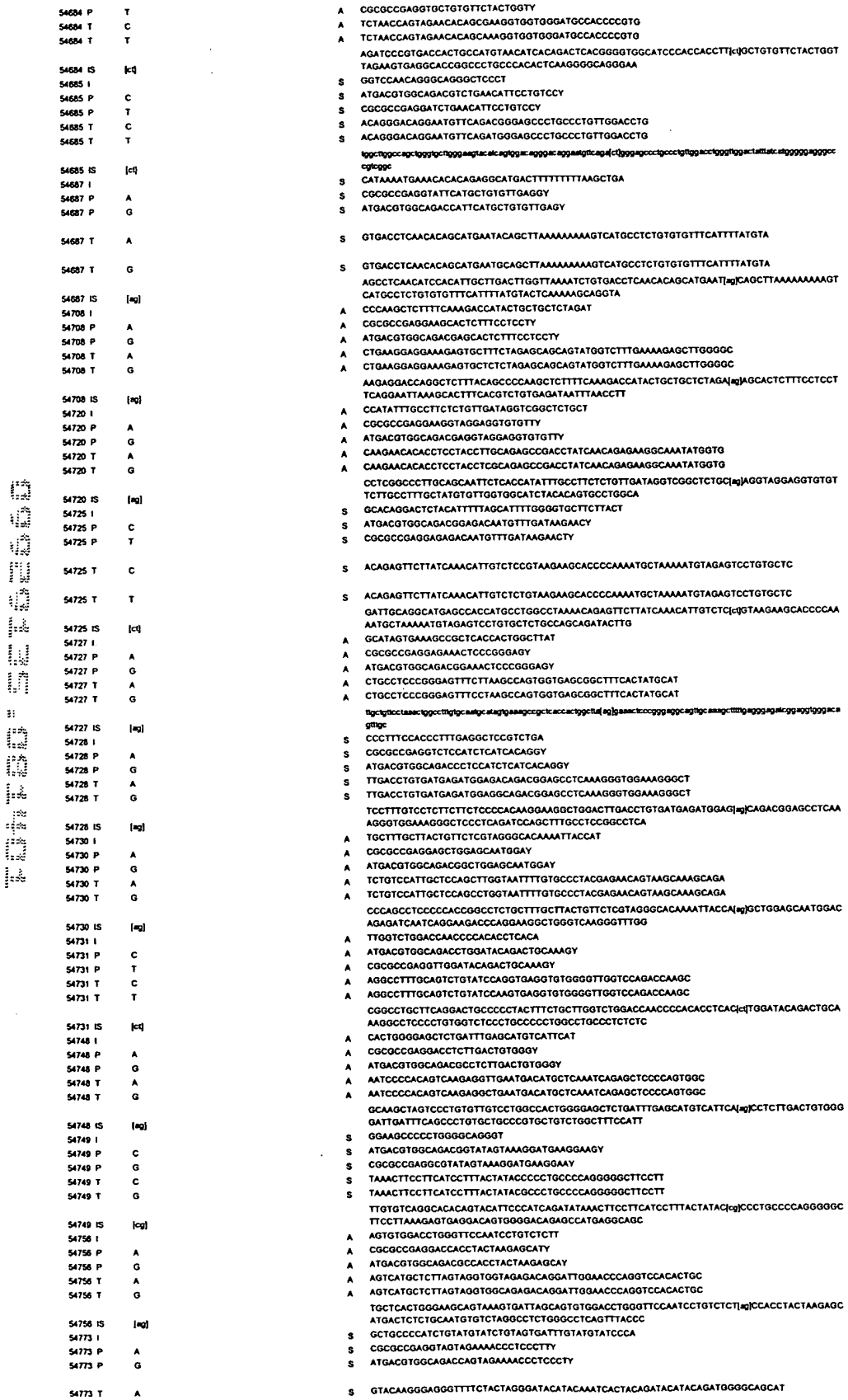

69043 T C
A ACGTGCAATATACTTACCAGTGTTTAGTGTTGTAGATTTTTTCTTGGTGAACAAACTGTAGTGGTTCCAGCCAT
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69043 IS [TC] ATATTGCACGTATATTATTTAAAATAGGGAAAAAGACTAATTT
69044 I A CACAAGAAAGCAAGAGCTGCCAGGGCCA
69044 P C A ATGACGTGGCAGACCCTTCCAGCAGGGAGY
69044 P T A CGCGCCGAGGTCTTCCAGCAGGGAGY
69044 T C A CAGCCTCCCTGCTGGAAGGGGCCCTGGCAGCTCTTGCTTTCTTGTGGG
69044 T T A CAGCCTCCCTGCTGGAAGAGGCCCTGGCAGCTCTTGCTTTCTTGTGGG
AAAATACGCCTCATCTTCAAAATCCCAAAACCCCACAAGAAAGCAAGAGCTGCCAGGGCC[CT]CTTCCAGCAGGGAGG
69044 IS [CT] CTGACCCTGCGCCAGCGCCCACCTGAGCATGATGCCGTTCATGCG
69062 I A AGCAGGAATGGGAGGAGAGGGGCCA
69062 P T A CGCGCCGAGGTGCTGATATCCTGAGGGY
69062 P C A ATGACGTGGCAGACCGCTGATATCCTGAGGGY
69062 T T A CTCTCCCTCAGGATATCAGCAGGCCCCTCTCCTCCCATTCCTGCTGA
69062 T C A CTCTCCCTCAGGATATCAGCGGGCCCCTCTCCTCCCATTCCTGCTGA
CTCCTGAGGGGCATGGGGATGGGGCGGGGGTGGGTCAGCAGGAATGGGAGGAGAGGGGCC[TC]GCTGATATCCTG
69062 IS [TC] AGGGAGAGGTGGTCAGAGAGAGGCATCCTGGGGAGGCCAGCCCTGCAC
69188 I A AGGACCCCAATAGACATTTTAACTGTTATTTATAGATCAAAAAAACCACT
69188 P G A ATGACGTGGCAGACGTAAACACTGAAAACTTGCATY
69188 P A A CGCGCCGAGGATAAACACTGAAAACTTGCATTY
69188 T G A GATAAATGCAAGTTTTCAGTGTTTACGTGGTTTTTTTGATCTATAAATAACAGTTAAAATGTCTATTGGGGTCCTTA
69188 T A A GATAAATGCAAGTTTTCAGTGTTTATGTGGTTTTTTTGATCTATAAATAACAGTTAAAATGTCTATTGGGGTCCTTA
AGAGTTAAATAAGGACCCCAATAGACATTTTAACTGTTATTTATAGATCAAAAAAACCAC[GA]TAAACACTGAAAACTTG
69188 IS [GA] CATTTATCCTGAGCAGAACTGCTTTTACAGAATCCACAAATCC
75840 I S ACCAAAAGGAGGAAACAGCCGTGTCATCAAGGT
75840 P C S ATGACGTGGCAGACGTTCTGAGGAGGTGGTY
75840 P T S CGCGCCGAGGATTCTGAGGAGGTGGTCY
75840 T C S GCTGGACCACCTCCTCAGAACCCTTGATGACACGGCTGTTCCTCCTTTTGGTGA
75840 T T S GCTGGACCACCTCCTCAGAATCCTTGATGACACGGCTGTTCCTCCTTTTGGTGA
GGCTGCCGAGACTTCTCCAACTCAGTGATCAGGGTCCCAAGCTGGACCACCTCCTCAGAA[CT]CCTTGATGACACGG
75840 IS [CT] CTGTTCCTCCTTTTGGTGAGTTCTTGCTCTAGCCCTACCAGCTGCT
76072 I S GGGCAGAAGCCCCACTTGCGGTCT
76072 P C S ATGACGTGGCAGACGTCATCGTAGTTGGCTGY
76072 P T S CGCGCCGAGGATCATCGTAGTTGGCTGTY
76072 T C S GACCACAGCCAACTACGATGACGACCGCAAGTGGGGCTTCTGCCCTG
76072 T T S GACCACAGCCAACTACGATGATGACCGCAAGTGGGGCTTCTGCCCTG
CACCAGCGCCGGCCGCAGTGACGGAAAGATGTGGTGTGCGACCACAGCCAACTACGATGA[CT]GACCGCAAGTGGG
76072 IS [CT] GCTTCTGCCCTGACCAAGGTACGAGGCCCTGGTCATTGGACAGAGAC
54657 I A GCTGTACTACTTAGTTATGAGAACCCAAACTGTCACCAGGCT
54657 P A A CGCGCCGAGGAGTGCTAAATCTCTCTGGGY
54657 P G A ATGACGTGGCAGACGGTGCTAAATCTCTCTGGY
54657 T A A TCTTCCCAGAGAGATTTAGCACTGCCTGGTGACAGTTTGGGTTCTCATAACTAAGTAGTACAGCGG
54657 T G A TCTTCCCAGAGAGATTTAGCACCGCCTGGTGACAGTTTGGGTTCTCATAACTAAGTAGTACAGCGG
ATTCTAGATGTCAGTGCCCGCTGTACTACTTAGTTATGAGAACCCAAACTGTCACCAGGC[ag]GTGCTAAATCTCTCTG
54657 IS [ag] GGAAGAATGTCATCCCCTGAGAACTGCTGTTCTAAAGGAACCTA
54683 I S GCGAAGCTCTTACACAGCCAGAGTCTGAAATGACTT
54683 P G S ATGACGTGGCAGACCCAGCTTTTCTGCCGY
54683 P T S CGCGCCGAGGACAGCTTTTCTGCCGY
54683 T G S TCCCCGGCAGAAAAGCTGGAGTCATTTCAGACTCTGGCTGTGTAAGAGCTTCGCTG
54683 T T S TCCCCGGCAGAAAAGCTGTAGTCATTTCAGACTCTGGCTGTGTAAGAGCTTCGCTG
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54663 IS [gt] gag
54664 I A CACAGCAAAGTGCAGCATCCCACCCAGC
54664 P G A ATGACGTGGCAGACGTCTAAGAGGGGAGTTTCTY
54664 P T A CGCGCCGAGGTTCTAAGAGGGGAGTTTCTY
54664 T G A GTTGAGAAACTCCCCTCTTAGACCTGGGTGGGATGCTGCACTTTGCTGTGCT
54664 T T A GTTGAGAAACTCCCCTCTTAGAACTGGGTGGGATGCTGCACTTTGCTGTGCT
AGGGCAAAAAAACATCCTGCCTCCCATGGGGAGCACAGCAAAGTGCAGCATCCCACCCAG[gt]TCTAAGAGGGGAGTT
54664 IS [gt] TCTCAACCTCAGCCTCTGGAGCTGGATGACTGTGTTAGGGGGCTG
54665 I A CCCCTTCCTCACACTCTTCAACCCAGGGC
54665 P A A CGCGCCGAGGACTAAAGCAATTGTCCCCY
54665 P T A ATGACGTGGCAGACTCTAAAGCAATTGTCCCCY
54665 T A A TACTGGGGACAATTGCTTTAGTCCCTGGGTTGAAGAGTGTGAGGAAGGGGGC
54665 T T A TACTGGGGACAATTGCTTTAGACCCTGGGTTGAAGAGTGTGAGGAAGGGGGC
GGGTTCCTCCCCACCTTTCCAGCCTTTTTGGCCCCCTTCCTCACACTCTTCAACCCAGGG[at]CTAAAGCAATTGTCCC
54665 IS [ct] CAGTATAACTTACTCTTCAGGGTCCATGCTTGAGCTGTTTGCTC
54666 I A CAGTTGCTCGTTGAAGTATGGGGTCTTCCAGTCTT
54666 P A A CGCGCCGAGGAGAGGAAGGCATCAGAGY
54666 P G A ATGACGTGGCAGACGGAGGAAGGCATCAGAY
54666 T A A TGGTCTCTGATGCCTTCCTCTAGACTGGAAGACCCCATACTTCAACGAGCAACTGTC
54666 T G A TGGTCTCTGATGCCTTCCTCCAGACTGGAAGACCCCATACTTCAACGAGCAACTGTC
AGACTCACGGGGTGGGACTCTGCTGACAGTTGCTCGTTGAAGTATGGGGTCTTCCAGTCT[ag]GAGGAAGGCATCAG
54666 IS [ag] AGACCAGGGCAGCAGCAGGGCTGGTTCCTTCTGGGGCTGTGAGAAT
54668 I S GAGCCCACCCATACAGCTCTTCATGCTCAT
54668 P C S ATGACGTGGCAGACGAGTAAAAGTGGCCAGCY
54668 P T S CGCGCCGAGGAAGTAAAAGTGGCCAGCY
54668 T C S CCACGCTGGCCACTTTTACTCTGAGCATGAAGAGCTGTATGGGTGGGCTCAG
54668 T T S CCACGCTGGCCACTTTTACTTTGAGCATGAAGAGCTGTATGGGTGGGCTCAG
GAACAGGTTTGCTTCACAGACTCTCTCCCAGGGCAGAACCCCACGCTGGCCACTTTTACT[ct]TGAGCATGAAGAGCT
54668 IS [ct] GTATGGGTGGGCTCAGTAAGGGCTGCTCCTGGCCTGCTCCCTCCC
54671 I S CCAAGATGGTCCTGGATTTTGCCTGCTATTCCAGT
54671 P C S ATGACGTGGCAGACGATAATTATTCACAACACCTTGTTY
54671 P T S CGCGCCGAGGAATAATTATTCACAACACCTTGTTY
54671 T C S GTAGAACAAGGTGTTGTGAATAATTATCCTGGAATAGCAGGCAAAATCCAGGACCATCTTGGGC
54671 T T S GTAGAACAAGGTGTTGTGAATAATTATTCTGGAATAGCAGGCAAAATCCAGGACCATCTTGGGC
GTAAGTTTGTATCCAAGCAGGACCCTTTTGGAAGTAGAACAAGGTGTTGTGAATAATTAT[ct]CTGGAATAGCAGGCAA
54671 IS [ct] AATCCAGGACCATCTTGGGCAAATTGGGATGTTTGGTCACCCTC
54682 I A CCCATAGCCAATGATAGGGCCCCAAACAACAT
54682 P C A CGCGCCGAGGCTCTATCCCAGGAATCAGCY
54682 P G A ATGACGTGGCAGACGTCTATCCCAGGAATCAGY
54682 T C A ATTTGCTGATTCCTGGGATAGAGTGTTGTTTGGGGCCCTATCATTGGCTATGGGAC
54682 T G A ATTTGCTGATTCCTGGGATAGACTGTTGTTTGGGGCCCTATCATTGGCTATGGGAC
AAACAGACATTCAGAACCTGACCCAGGGTCCCATAGCCAATGATAGGGCCCCAAACAACA[cg]TCTATCCCAGGAATCA
54682 IS [cg] GCAAATTTTTTTCTGTAAAGAACCAGCCAGTAAATATCTTGGGC
54684 I A CGGGGTGGCATCCCACCACCTTA
54684 P C A ATGACGTGGCAGACCGCTGTGTTCTACTGGY

FIGURE 129D


54684 P T A CGCGCCGAGGTGCTGTGTTCTACTGGTY
54684 T C A TCTAACCAGTAGAACACAGCGAAGGTGGTGGGATGCCACCCCGTG
54684 T T A TCTAACCAGTAGAACACAGCAAAGGTGGTGGGATGCCACCCCGTG
AGATCCCGTGACCACTGCCATGTAACATCACAGACTCACGGGGTGGCATCCCACCACCTT[ct]GCTGTGTTCTACTGGT
54684 IS [ct] TAGAAGTGAGGCACCGGCCCTGCCCACACTCAAGGGGCAGGGAA
54685 I S GGTCCAACAGGGCAGGGCTCCCT
54685 P C S ATGACGTGGCAGACGTCTGAACATTCCTGTCCY
54685 P T S CGCGCCGAGGATCTGAACATTCCTGTCCY
54685 T C S ACAGGGACAGGAATGTTCAGACGGGAGCCCTGCCCTGTTGGACCTG
54685 T T S ACAGGGACAGGAATGTTCAGATGGGAGCCCTGCCCTGTTGGACCTG
tggctggccagctgggtgctgggaagtacatcagtggcacgggacaggaatgttcaga[ct]gggagcccctgcccttgttggacctgggttggactatttatcatgggggagggcc
54685 IS [ct] cgtcggc
54687 I S CATAAAATGAAACACACAGAGGCATGACTTTTTTTTTAAGCTGA
54687 P A S CGCGCCGAGGTATTCATGCTGTGTTGAGGY
54687 P G S ATGACGTGGCAGACCATTCATGCTGTGTTGAGY
54687 T A S GTGACCTCAACACAGCATGAATACAGCTTAAAAAAAAAGTCATGCCTCTGTGTGTTTCATTTTATGTA
54687 T G S GTGACCTCAACACAGCATGAATGCAGCTTAAAAAAAAAGTCATGCCTCTGTGTGTTTCATTTTATGTA
AGCCTCAACATCCACATTGCTTGACTTGGTTAAAATCTGTGACCTCAACACAGCATGAAT[ag]CAGCTTAAAAAAAAAGT
54687 IS [ag] CATGCCTCTGTGTGTTTCATTTTATGTACTCAAAAAGCAGGTA
54708 I A CCCAAGCTCTTTTCAAAGACCATACTGCTGCTCTAGAT
54708 P A A CGCGCCGAGGAAGCACTCTTTCCTCCTY
54708 P G A ATGACGTGGCAGACGAGGCACTCTTTCCTCCTY
54708 T A A CTGAAGGAGGAAAAGAGTGCTTTCTAGAGCAGCAGTATGGTCTTTGAAAAGAGCTTGGGGC
54708 T G A CTGAAGGAGGAAAAGAGTGCTCTCTAGAGCAGCAGTATGGTCTTTGAAAAGAGCTTGGGGC
AAGAGGACCAGGCTCTTTACAGCCCCAAGCTCTTTTCAAAGACCATACTGCTGCTCTAGA[ag]AGCACTCTTTCCTCCT
54708 IS [ag] TCAGGAATTAAAGCACTTTCACGTCTGTGAGATAATTTAACCTT
54720 I A CCATATTTGCCTTCTCTGTTGATAGGTCGGCTCTGCT
54720 P A A CGCGCCGAGGAAGGTAGGAGGTGTGTTY
54720 P G A ATGACGTGGCAGACGAGGTAGGAGGTGTGTTY
54720 T A A CAAGAACACACCTCCTACCTTGCAGAGCCGACCTATCAACAGAGAAGGCAAATATGGTG
54720 T G A CAAGAACACACCTCCTACCTCGCAGAGCCGACCTATCAACAGAGAAGGCAAATATGGTG
CCTCGGCCCTTGCAGCAATTCTCACCATATTTGCCTTCTCTGTTGATAGGTCGGCTCTGC[ag]AGGTAGGAGGTGTGT
54720 IS [ag] TCTTGCCTTTGCTATGTGTTGGTGGCATCTACACAGTGCCTGGCA
54725 I S GCACAGGACTCTACATTTTTAGCATTTTGGGGTGCTTCTTACT
54725 P C S ATGACGTGGCAGACGGAGACAATGTTTGATAAGAACY
54725 P T S CGCGCCGAGGAGAGACAATGTTTGATAAGAACTY
54725 T C S ACAGAGTTCTTATCAAACATTGTCTCCGTAAGAAGCACCCCAAAATGCTAAAAATGTAGAGTCCTGTGCTC
54725 T T S ACAGAGTTCTTATCAAACATTGTCTCTGTAAGAAGCACCCCAAAATGCTAAAAATGTAGAGTCCTGTGCTC
GATTGCAGGCATGAGCCACCATGCCTGGCCTAAAACAGAGTTCTTATCAAACATTGTCTC[ct]GTAAGAAGCACCCCAA
54725 IS [ct] AATGCTAAAAATGTAGAGTCCTGTGCTCTGCCAGCAGATACTTG
54727 I A GCATAGTGAAAGCCGCTCACCACTGGCTTAT
54727 P A A CGCGCCGAGGAGAAACTCCCGGGAGY
54727 P G A ATGACGTGGCAGACGGAAACTCCCGGGAGY
54727 T A A CTGCCTCCCGGGAGTTTCTTAAGCCAGTGGTGAGCGGCTTTCACTATGCAT
54727 T G A CTGCCTCCCGGGAGTTTCCTAAGCCAGTGGTGAGCGGCTTTCACTATGCAT
tgctgtcctaaactggcctttgtgcaatgcatagtgaaagccgctcaccactggctat[ag]gaaactcccgggaggcagtgcaaagctttgagggagatgcggagggtgggaca
54727 IS [ag] gtttgc
54728 I S CCCTTTCCACCCTTTGAGGCTCCGTCTGA
54728 P A S CGCGCCGAGGTCTCCATCTCATCACAGGY
54728 P G S ATGACGTGGCAGACCCTCCATCTCATCACAGGY
54728 T A S TTGACCTGTGATGAGATGGAGACAGACGGAGCCTCAAAGGGTGGAAAGGGCT
54728 T G S TTGACCTGTGATGAGATGGAGGCAGACGGAGCCTCAAAGGGTGGAAAGGGCT
TCCTTTGTCCTCTTCTTCTCCCCACAAGGAAGGCTGGACTTGACCTGTGATGAGATGGAG[ag]CAGACGGAGCCTCAA
54728 IS [ag] AGGGTGGAAAGGGCTCCCTCAGATCCAGCTTTGCCTCCGGCCTCA
54730 I A TGCTTTGCTTACTGTTCTCGTAGGGCACAAAATTACCAT
54730 P A A CGCGCCGAGGAGCTGGAGCAATGGAY
54730 P G A ATGACGTGGCAGACGGCTGGAGCAATGGAY
54730 T A A TCTGTCCATTGCTCCAGCTTGGTAATTTTGTGCCCTACGAGAACAGTAAGCAAAGCAGA
54730 T G A TCTGTCCATTGCTCCAGCCTGGTAATTTTGTGCCCTACGAGAACAGTAAGCAAAGCAGA
CCCAGCCTCCCCCACCGGCCTCTGCTTTGCTTACTGTTCTCGTAGGGCACAAAATTACCA[ag]GCTGGAGCAATGGAC
54730 IS [ag] AGAGATCAATCAGGAAGACCCAGGAAGGCTGGGTCAAGGGTTTGG
54731 I A TTGGTCTGGACCAACCCCACACCTCACA
54731 P C A ATGACGTGGCAGACCTGGATACAGACTGCAAAGY
54731 P T A CGCGCCGAGGTTGGATACAGACTGCAAAGY
54731 T C A AGGCCTTTGCAGTCTGTATCCAGGTGAGGTGTGGGGTTGGTCCAGACCAAGC
54731 T T A AGGCCTTTGCAGTCTGTATCCAAGTGAGGTGTGGGGTTGGTCCAGACCAAGC
CGGCCTGCTTCAGGACTGCCCCCTACTTTCTGCTTGGTCTGGACCAACCCCACACCTCAC[ct]TGGATACAGACTGCA
54731 IS [ct] AAGGCCTCCCCTGTGGTCTCCCTGCCCCCTGGCCTGCCCTCTCTC
54748 I A CACTGGGGAGCTCTGATTTGAGCATGTCATTCAT
54748 P A A CGCGCCGAGGACCTCTTGACTGTGGGY
54748 P G A ATGACGTGGCAGACGCCTCTTGACTGTGGGY
54748 T A A AATCCCCACAGTCAAGAGGTTGAATGACATGCTCAAATCAGAGCTCCCCAGTGGC
54748 T G A AATCCCCACAGTCAAGAGGCTGAATGACATGCTCAAATCAGAGCTCCCCAGTGGC
GCAAGCTAGTCCCTGTGTTGTCCTGGCCACTGGGGAGCTCTGATTTGAGCATGTCATTCA[ag]CCTCTTGACTGTGGG
54748 IS [ag] GATTGATTTCAGCCCTGTGCTGCCCGTGCTGTCTGGCTTTCCATT
54749 I S GGAAGCCCCCTGGGGCAGGGT
54749 P C S ATGACGTGGCAGACGGTATAGTAAAGGATGAAGGAAGY
54749 P G S CGCGCCGAGGCGTATAGTAAAGGATGAAGGAAY
54749 T C S TAAACTTCCTTCATCCTTTACTATACCCCCTGCCCCAGGGGGCTTCCTT
54749 T G S TAAACTTCCTTCATCCTTTACTATACGCCCTGCCCCAGGGGGCTTCCTT
TTGTGTCAGGCACACAGTACATTCCCATCAGATATAAACTTCCTTCATCCTTTACTATAC[cg]CCCTGCCCCAGGGGGC
54749 IS [cg] TTCCTTAAAGAGTGAGGACAGTGGGGACAGAGCCATGAGGCAGC
54756 I A AGTGTGGACCTGGGTTCCAATCCTGTCTCTT
54756 P A A CGCGCCGAGGACCACCTACTAAGAGCATY
54756 P G A ATGACGTGGCAGACGCCACCTACTAAGAGCAY
54756 T A A AGTCATGCTCTTAGTAGGTGGTAGAGACAGGATTGGAACCCAGGTCCACACTGC
54756 T G A AGTCATGCTCTTAGTAGGTGGCAGAGACAGGATTGGAACCCAGGTCCACACTGC
TGCTCACTGGGAAGCAGTAAAGTGATTAGCAGTGTGGACCTGGGTTCCAATCCTGTCTCT[ag]CCACCTACTAAGAGC
54756 IS [ag] ATGACTCTCTGCAATGTGTCTAGGCCTCTGGGCCTCAGTTTACCC
54773 I S GCTGCCCCATCTGTATGTATCTGTAGTGATTTGTATGTATCCCA
54773 P A S CGCGCCGAGGTAGTAGAAAACCCTCCCTTY
54773 P G S ATGACGTGGCAGACCAGTAGAAAACCCTCCCTY
54773 T A S GTACAAGGGAGGGTTTTCTACTAGGGATACATACAAATCACTACAGATACATACAGATGGGGCAGCAT

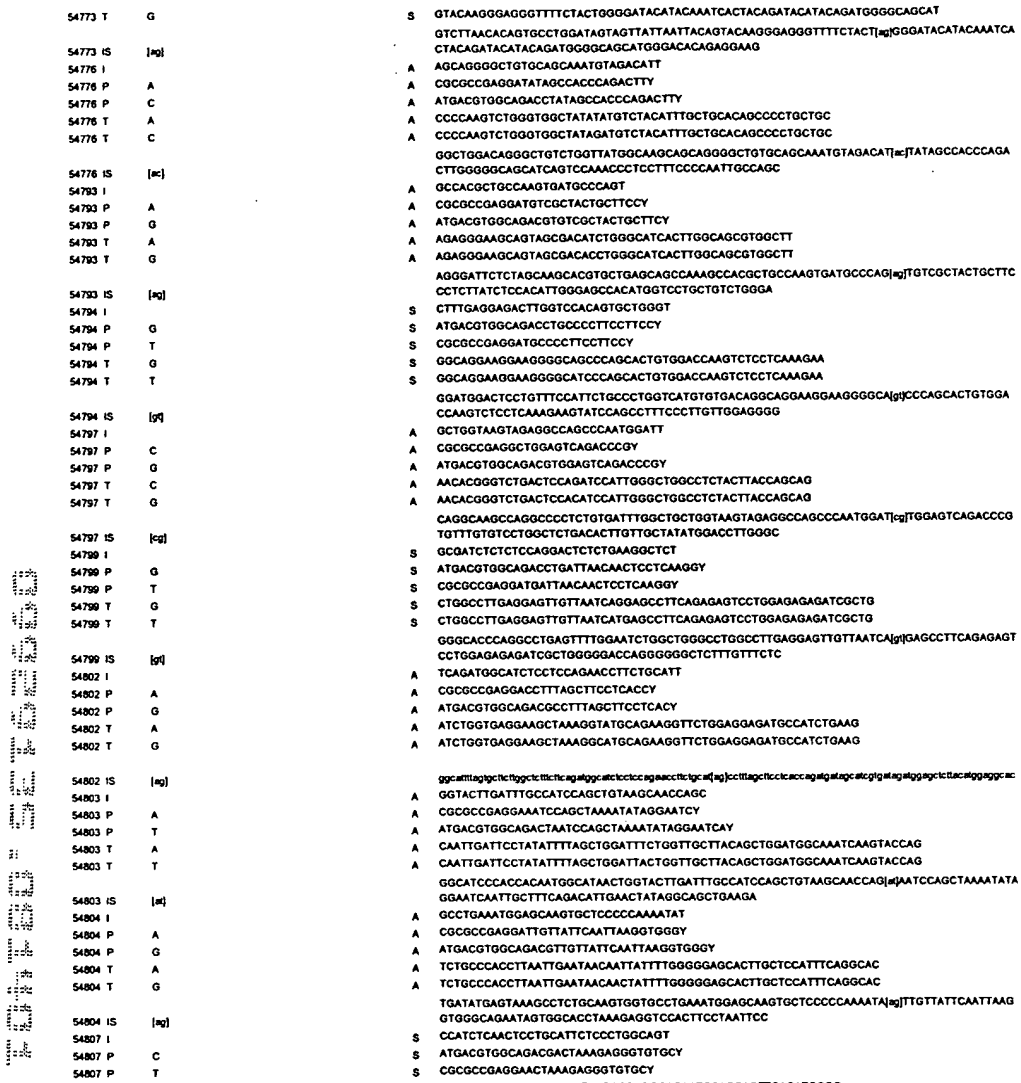
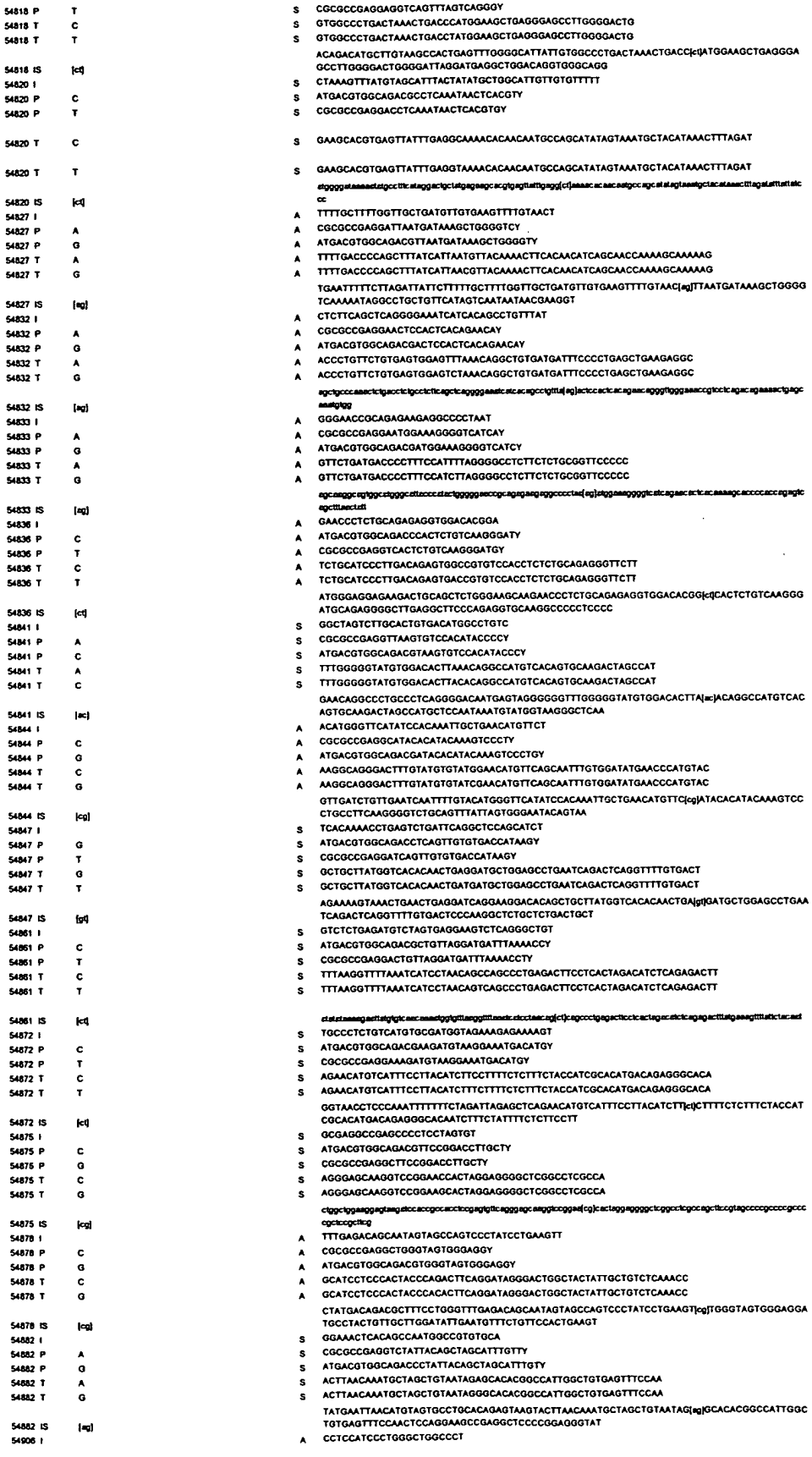
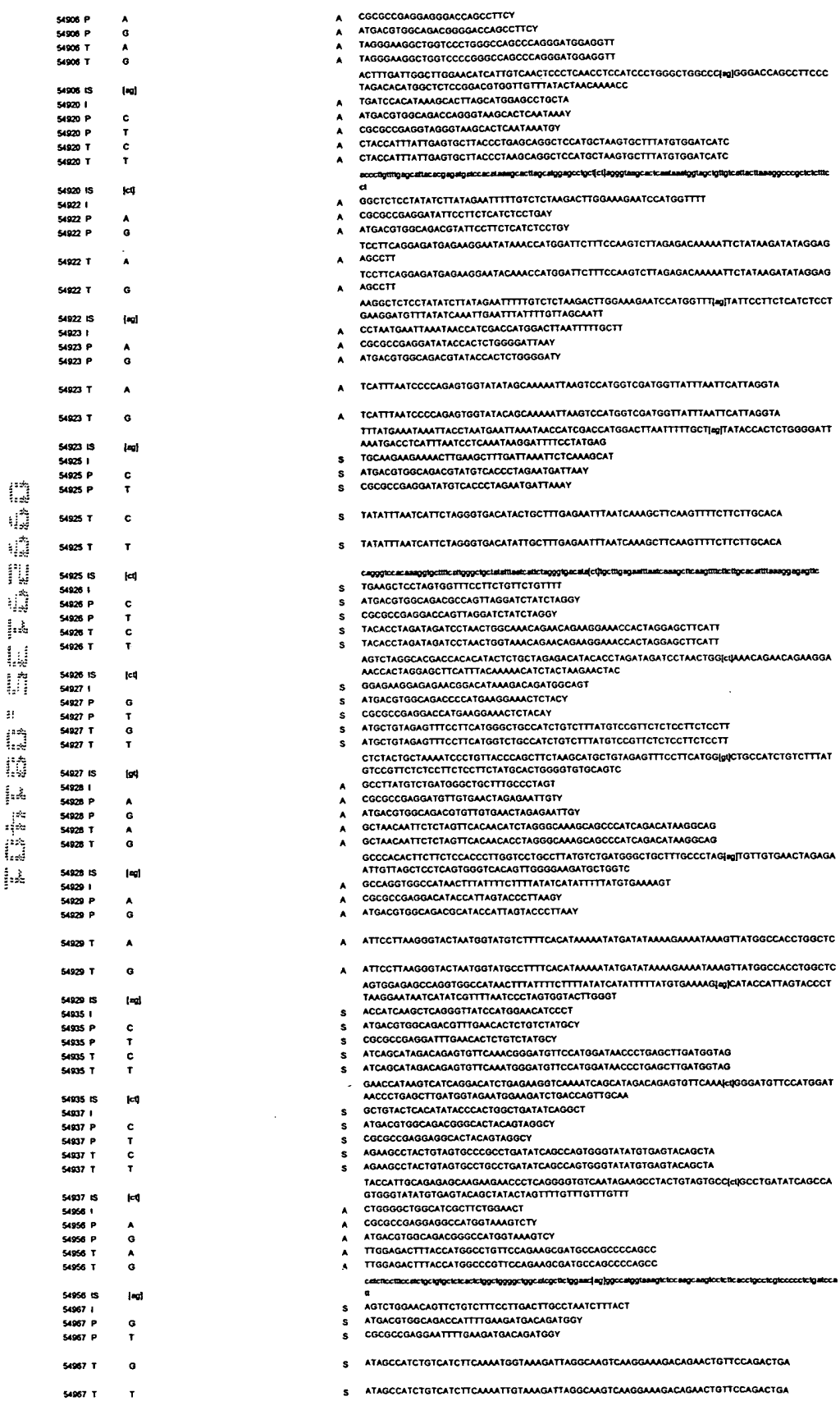
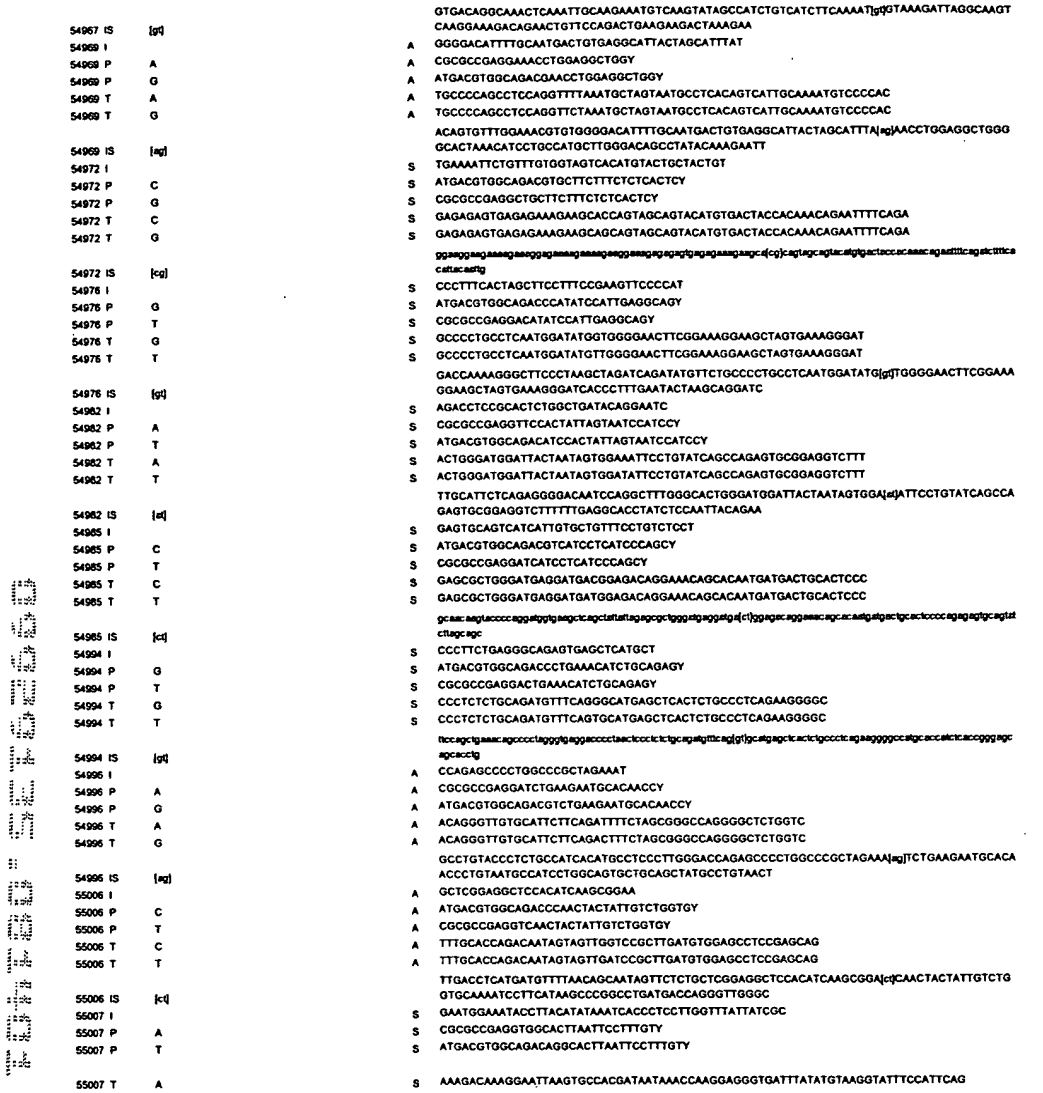


FIGURE 129D


54818 P T S CGCGCCGAGGAGGTCAGTTTAGTCAGGGY
54818 T C S GTGGCCCTGACTAAACTGACCCATGGAAGCTGAGGGAGCCTTGGGGACTG
54818 T T S GTGGCCCTGACTAAACTGACCTATGGAAGCTGAGGGAGCCTTGGGGACTG
54818 IS [ct] ACAGACATGCTTGTAAGCCACTGAGTTTGGGGCATTATTGTGGCCCTGACTAAACTGACC[ct]ATGGAAGCTGAGGGA GCCTTGGGGACTGGGGATTAGGATGAGGCTGGACAGGTGGGCAGG
54820 I S CTAAAGTTTATGTAGCATTTACTATATGCTGGCATTGTTGTGTTTTT
54820 P C S ATGACGTGGCAGACGCCTCAAATAACTCACGTY
54820 P T S CGCGCCGAGGACCTCAAATAACTCACGTGY
54820 T C S GAAGCACGTGAGTTATTTGAGGCAAAACACAACAATGCCAGCATATAGTAAATGCTACATAAACTTTAGAT
54820 T T S GAAGCACGTGAGTTATTTGAGGTAAAACACAACAATGCCAGCATATAGTAAATGCTACATAAACTTTAGAT
54820 IS [ct] atgggataaaactatgcctttcataggactgctatgagagcgcacgtgagttattgagg[ct]aaaacacaacaatgccagcatatagtaaatgctacataaacttttagatatttatatc cc
54827 I A TTTTGCTTTTGGTTGCTGATGTTGTGAAGTTTTGTAACT
54827 P A A CGCGCCGAGGATTAATGATAAAGCTGGGGTCY
54827 P G A ATGACGTGGCAGACGTTAATGATAAAGCTGGGGTY
54827 T A A TTTTGACCCCAGCTTTATCATTAATGTTACAAAACTTCACAACATCAGCAACCAAAAGCAAAAAG
54827 T G A TTTTGACCCCAGCTTTATCATTAACGTTACAAAACTTCACAACATCAGCAACCAAAAGCAAAAAG
54827 IS [ag] TGAATTTTTCTTAGATTATTCTTTTTGCTTTTGGTTGCTGATGTTGTGAAGTTTTGTAAC[ag]TTAATGATAAAGCTGGGG TCAAAAATAGGCCTGCTGTTCATAGTCAATAATAACGAAGGT
54832 I A CTCTTCAGCTCAGGGGAAATCATCACAGCCTGTTTAT
54832 P A A CGCGCCGAGGAACTCCACTCACAGAACAY
54832 P G A ATGACGTGGCAGACGACTCCACTCACAGAACAY
54832 T A A ACCCTGTTCTGTGAGTGGAGTTTAAACAGGCTGTGATGATTTCCCCTGAGCTGAAGAGGC
54832 T G A ACCCTGTTCTGTGAGTGGAGTCTAAACAGGCTGTGATGATTTCCCCTGAGCTGAAGAGGC
54832 IS [ag] agctgccaaactctgacctctgcctcttcagctcagggaaatcatcacagcctgttt[ag]actccactcactgaacagggtgggaaaccgtcctctcagacagaaaactgagc aaatgtgg
54833 I A GGGAACCGCAGAGAAGAGGCCCCTAAT
54833 P A A CGCGCCGAGGAATGGAAAGGGGTCATCAY
54833 P G A ATGACGTGGCAGACGATGGAAAGGGGTCATCY
54833 T A A GTTCTGATGACCCCTTTCCATTTTAGGGGCCTCTTCTCTGCGGTTCCCCC
54833 T G A GTTCTGATGACCCCTTTCCATCTTAGGGGCCTCTTCTCTGCGGTTCCCCC
54833 IS [ag] agcaaggcagtggccatgggcatgcccatactgggggaccgcagagaagaggcccctac[ag]atggaaaggggtcatcagaacactcacaaaagcacccccaccagagtc agcttaactctt
54836 I A GAACCCTCTGCAGAGAGGTGGACACGGA
54836 P C A ATGACGTGGCAGACCCACTCTGTCAAGGGATY
54836 P T A CGCGCCGAGGTCACTCTGTCAAGGGATGY
54836 T C A TCTGCATCCCTTGACAGAGTGGCCGTGTCCACCTCTCTGCAGAGGGTTCTT
54836 T T A TCTGCATCCCTTGACAGAGTGACCGTGTCCACCTCTCTGCAGAGGGTTCTT
54836 IS [ct] ATGGGAGGAGAAGACTGCAGCTCTGGGAAGCAAGAACCCTCTGCAGAGAGGTGGACACGG[ct]CACTCTGTCAAGGG ATGCAGAGGGGCTTGAGGCTTCCCAGAGGTGCAAGGCCCCCTCCC
54841 I S GGCTAGTCTTGCACTGTGACATGGCCTGTC
54841 P A S CGCGCCGAGGTTAAGTGTCCACATACCCCY
54841 P C S ATGACGTGGCAGACGTAAGTGTCCACATACCCY
54841 T A S TTTGGGGGTATGTGGACACTTAAACAGGCCATGTCACAGTGCAAGACTAGCCAT
54841 T C S TTTGGGGGTATGTGGACACTTACACAGGCCATGTCACAGTGCAAGACTAGCCAT
54841 IS [ac] GAACAGGCCCTGCCCTCAGGGGACAATGAGTAGGGGGGGTTTGGGGGTATGTGGACACTTA[ac]ACAGGCCATGTCAC AGTGCAAGACTAGCCATGCTCCAATAAATGTATGGTAAGGGCTCAA
54844 I A ACATGGGTTCATATCCACAAATTGCTGAACATGTTCT
54844 P C A CGCGCCGAGGCATACACATACAAAGTCCCTY
54844 P G A ATGACGTGGCAGACGATACACATACAAAGTCCCTGY
54844 T C A AAGGCAGGGACTTTGTATGTGTATGGAACATGTTCAGCAATTTGTGGATATGAACCCATGTAC
54844 T G A AAGGCAGGGACTTTGTATGTGTATCGAACATGTTCAGCAATTTGTGGATATGAACCCATGTAC
54844 IS [cg] GTTGATCTGTTGAATCAATTTTGTACATGGGTTCATATCCACAAATTGCTGAACATGTTC[cg]ATACACATACAAAGTCC CTGCCTTCAAGGGGTCTGCAGTTTATTAGTGGGAATACAGTAA
54847 I S TCACAAAACCTGAGTCTGATTCAGGCTCCAGCATCT
54847 P G S ATGACGTGGCAGACCTCAGTTGTGTGACCATAAGY
54847 P T S CGCGCCGAGGATCAGTTGTGTGACCATAAGY
54847 T G S GCTGCTTATGGTCACACAACTGAGGATGCTGGAGCCTGAATCAGACTCAGGTTTTGTGACT
54847 T T S GCTGCTTATGGTCACACAACTGATGATGCTGGAGCCTGAATCAGACTCAGGTTTTGTGACT
54847 IS [gt] AGAAAAGTAAACTGAACTGAGGATCAGGAAGGACACAGCTGCTTATGGTCACACAACTGA[gt]GATGCTGGAGCCTGAA TCAGACTCAGGTTTTGTGACTCCCAAGGCTCTGCTCTGACTGCT
54861 I S GTCTCTGAGATGTCTAGTGAGGAAGTCTCAGGGCTGT
54861 P C S ATGACGTGGCAGACGCTGTTAGGATGATTTAAAACCY
54861 P T S CGCGCCGAGGACTGTTAGGATGATTTAAAACCTY
54861 T C S TTTAAGGTTTTAAATCATCCTAACAGCCAGCCCTGAGACTTCCTCACTAGACATCTCAGAGACTT
54861 T T S TTTAAGGTTTTAAATCATCCTAACAGTCAGCCCTGAGACTTCCTCACTAGACATCTCAGAGACTT
54861 IS [ct] ctatctaaaagaattatgtgtgtcaaccaaaatggtgttaaggtttaaatcatcctaacagt[ct]cagcccttgagacttcctcactagacatctcagagacttttatgtaaagttttatctctacaat
54872 I S TGCCCTCTGTCATGTGCGATGGTAGAAAGAGAAAAGT
54872 P C S ATGACGTGGCAGACGAAGATGTAAGGAAATGACATGY
54872 P T S CGCGCCGAGGAAAGATGTAAGGAAATGACATGY
54872 T C S AGAACATGTCATTTCCTTACATCTTCCTTTTCTCTTTCTACCATCGCACATGACAGAGGGCACA
54872 T T S AGAACATGTCATTTCCTTACATCTTTCTTTTCTCTTTCTACCATCGCACATGACAGAGGGCACA
54872 IS [ct] GGTAACCTCCCAAATTTTTTTCTAGATTAGAGCTCAGAACATGTCATTTCCTTACATCTT[ct]CTTTTCTCTTTCTACCAT CGCACATGACAGAGGGCACAATCTTTCTATTTTCTCTTCCTT
54875 I S GCGAGGCCGAGCCCCTCCTAGTGT
54875 P C S ATGACGTGGCAGACGTTCCGGACCTTGCTY
54875 P G S CGCGCCGAGGCTTCCGGACCTTGCTY
54875 T C S AGGGAGCAAGGTCCGGAACCACTAGGAGGGGCTCGGCCTCGCCA
54875 T G S AGGGAGCAAGGTCCGGAAGCACTAGGAGGGGCTCGGCCTCGCCA
54875 IS [cg] ctggctggaaggagtaagatccaccgccacctccgagtgttcagggagccaaggtccggaa[cg]cactaggaggggctcggcctcgccacgcttccgtagcccccgcccgccc cgctcccgcttccg
54878 I A TTTGAGACAGCAATAGTAGCCAGTCCCTATCCTGAAGTT
54878 P C A CGCGCCGAGGCTGGGTAGTGGGAGGY
54878 P G A ATGACGTGGCAGACGTGGGTAGTGGGAGGY
54878 T C A GCATCCTCCCACTACCCAGACTTCAGGATAGGGACTGGCTACTATTGCTGTCTCAAACC
54878 T G A GCATCCTCCCACTACCCACACTTCAGGATAGGGACTGGCTACTATTGCTGTCTCAAACC
54878 IS [cg] CTATGACAGACGCTTTCCTGGGTTTGAGACAGCAATAGTAGCCAGTCCCTATCCTGAAGT[cg]TGGGTAGTGGGAGGA TGCCTACTGTTGCTTGGATATTGAATGTTTCTGTTCCACTGAAGT
54882 I S GGAAACTCACAGCCAATGGCCGTGTGCA
54882 P A S CGCGCCGAGGTCTATTACAGCTAGCATTTGTTY
54882 P G S ATGACGTGGCAGACCCTATTACAGCTAGCATTTGTY
54882 T A S ACTTAACAAATGCTAGCTGTAATAGAGCACACGGCCATTGGCTGTGAGTTTCCAA
54882 T G S ACTTAACAAATGCTAGCTGTAATAGGGCACACGGCCATTGGCTGTGAGTTTCCAA
54882 IS [ag] TATGAATTAACATGTAGTGCCTGCACAGAGTAAGTACTTAACAAATGCTAGCTGTAATAG[ag]GCACACGGCCATTGGC TGTGAGTTTCCAACTCCAGGAAGCCGAGGCTCCCCGGAGGGTAT
54906 I A CCTCCATCCCTGGGCTGGCCCT


54906 P A A CGCGCCGAGGAGGGACCAGCCTTCY
54906 P G A ATGACGTGGCAGACGGGGACCAGCCTTCY
54906 T A A TAGGGAAGGCTGGTCCCTGGGCCAGCCCAGGGATGGAGGTT
54906 T G A TAGGGAAGGCTGGTCCCCGGGCCAGCCCAGGGATGGAGGTT
54906 IS [ag] ACTTTGATTGGCTTGGAACATCATTGTCAACTCCCTCAACCTCCATCCCTGGGCTGGCCC[ag]GGGACCAGCCTTCCC
TAGACACATGGCTCTCCGGACGTGGTTGTTTATACTAACAAAACC
54920 I A TGATCCACATAAAGCACTTAGCATGGAGCCTGCTA
54920 P C A ATGACGTGGCAGACCAGGGTAAGCACTCAATAAAY
54920 P T A CGCGCCGAGGTAGGGTAAGCACTCAATAAATGY
54920 T C A CTACCATTTATTGAGTGCTTACCCTGAGCAGGCTCCATGCTAAGTGCTTTATGTGGATCATC
54920 T T A CTACCATTTATTGAGTGCTTACCCTAAGCAGGCTCCATGCTAAGTGCTTTATGTGGATCATC
54920 IS [ct] accctgtttgagcattacacggagatgaccacataaagcacttagcatggagcctgct[ct]agggtaagcactcaataaatggtagctgtgtcattactaaaggcccgctctcttc
ct
54922 I A GGCTCTCCTATATCTTATAGAATTTTTGTCTCTAAGACTTGGAAAGAATCCATGGTTTT
54922 P A A CGCGCCGAGGATATTCCTTCTCATCTCCTGAY
54922 P G A ATGACGTGGCAGACGTATTCCTTCTCATCTCCTGY
54922 T A A TCCTTCAGGAGATGAGAAGGAATATAAACCATGGATTCTTTCCAAGTCTTAGAGACAAAAATTCTATAAGATATAGGAG
AGCCTT
54922 T G A TCCTTCAGGAGATGAGAAGGAATACAAACCATGGATTCTTTCCAAGTCTTAGAGACAAAAATTCTATAAGATATAGGAG
AGCCTT
54922 IS [ag] AAGGCTCTCCTATATCTTATAGAATTTTTGTCTCTAAGACTTGGAAAGAATCCATGGTTT[ag]TATTCCTTCTCATCTCCT
GAAGGATGTTTATATCAAATTGAATTTATTTTGTTAGCAATT
54923 I A CCTAATGAATTAAATAACCATCGACCATGGACTTAATTTTTGCTT
54923 P A A CGCGCCGAGGATATACCACTCTGGGGATTAAY
54923 P G A ATGACGTGGCAGACGTATACCACTCTGGGGATY
54923 T A A TCATTTAATCCCCAGAGTGGTATATAGCAAAAATTAAGTCCATGGTCGATGGTTATTTAATTCATTAGGTA
54923 T G A TCATTTAATCCCCAGAGTGGTATACAGCAAAAATTAAGTCCATGGTCGATGGTTATTTAATTCATTAGGTA
54923 IS [ag] TTTATGAAATAAATTACCTAATGAATTAAATAACCATCGACCATGGACTTAATTTTTGCT[ag]TATACCACTCTGGGGATT
AAATGACCTCATTTAATCCTCAAATAAGGATTTTCGTATGAG
54925 I S TGCAAGAAGAAAACTTGAAGCTTTGATTAAATTCTCAAAGCAT
54925 P C S ATGACGTGGCAGACGTATGTCACCCTAGAATGATTAAY
54925 P T S CGCGCCGAGGATATGTCACCCTAGAATGATTAAAY
54925 T C S TATATTTAATCATTCTAGGGTGACATACTGCTTTGAGAATTTAATCAAAGCTTCAAGTTTTCTTCTTGCACA
54925 T T S TATATTTAATCATTCTAGGGTGACATATTGCTTTGAGAATTTAATCAAAGCTTCAAGTTTTCTTCTTGCACA
54925 IS [ct] caggglccacaaaggtgctttcatgggctgctatatttaatcatctagggtgacata[ct]tgctttgagaatttaatcaaagctlcaagtttlcttcttgcacatttaaaggagagttc
54926 I S TGAAGCTCCTAGTGGTTTCCTTCTGTTCTGTTTT
54926 P C S ATGACGTGGCAGACGCCAGTTAGGATCTATCTAGGY
54926 P T S CGCGCCGAGGACCAGTTAGGATCTATCTAGGY
54926 T C S TACACCTAGATAGATCCTAACTGGCAAACAGAACAGAAGGAAACCACTAGGAGCTTCATT
54926 T T S TACACCTAGATAGATCCTAACTGGTAAACAGAACAGAAGGAAACCACTAGGAGCTTCATT
54926 IS [ct] AGTCTAGGCACGACCACACATACTCTGCTAGAGACATACACCTAGATAGATCCTAACTGG[ct]AAACAGAACAGAAGGA
AACCACTAGGAGCTTCATTTACAAAAACATCTACTAAGAACTAC
54927 I S GGAGAAGGAGAGAACGGACATAAAGACAGATGGCAGT
54927 P G S ATGACGTGGCAGACCCCATGAAGGAAACTCTACY
54927 P T S CGCGCCGAGGACCATGAAGGAAACTCTACAY
54927 T G S ATGCTGTAGAGTTTCCTTCATGGGCTGCCATCTGTCTTTATGTCCGTTCTCTCCTTCTCCTT
54927 T T S ATGCTGTAGAGTTTCCTTCATGGTCTGCCATCTGTCTTTATGTCCGTTCTCTCCTTCTCCTT
54927 IS [gt] CTCTACTGCTAAAATCCCTGTTACCCAGCTTCTAAGCATGCTGTAGAGTTTCCTTCATGG[gt]CTGCCATCTGTCTTTAT
GTCCGTTCTCTCCTTCTCCTTCTATGCACTGGGGTGTGCAGTC
54928 I A GCCTTATGTCTGATGGGCTGCTTTGCCCTAGT
54928 P A A CGCGCCGAGGATGTTGTGAACTAGAGAATTGTY
54928 P G A ATGACGTGGCAGACGTGTTGTGAACTAGAGAATTGY
54928 T A A GCTAACAATTCTCTAGTTCACAACATCTAGGGCAAAGCAGCCCATCAGACATAAGGCAG
54928 T G A GCTAACAATTCTCTAGTTCACAACACCTAGGGCAAAGCAGCCCATCAGACATAAGGCAG
54928 IS [ag] GCCCACACTTCTTCTCCACCCTTGGTCCTGCCTTATGTCTGATGGGCTGCTTTGCCCTAG[ag]TGTTGTGAACTAGAGA
ATTGTTAGCTCCTCAGTGGGTCACAGTTGGGGAAGATGCTGGTC
54929 I A GCCAGGTGGCCATAACTTTATTTTCTTTTATATCATATTTTTATGTGAAAAGT
54929 P A A CGCGCCGAGGACATACCATTAGTACCCTTAAGY
54929 P G A ATGACGTGGCAGACGCATACCATTAGTACCCTTAAY
54929 T A A ATTCCTTAAGGGTACTAATGGTATGTCTTTTCACATAAAAATATGATATAAAAGAAAATAAAGTTATGGCCACCTGGCTC
54929 T G A ATTCCTTAAGGGTACTAATGGTATGCCTTTTCACATAAAAATATGATATAAAAGAAAATAAAGTTATGGCCACCTGGCTC
54929 IS [ag] AGTGGAGAGCCAGGTGGCCATAACTTTATTTTCTTTTATATCATATTTTTATGTGAAAAG[ag]CATACCATTAGTACCCT
TAAGGAATAATCATATCGTTTTAATCCCTAGTGGTACTTGGGT
54935 I S ACCATCAAGCTCAGGGTTATCCATGGAACATCCCT
54935 P C S ATGACGTGGCAGACGTTTGAACACTCTGTCTATGCY
54935 P T S CGCGCCGAGGATTTGAACACTCTGTCTATGCY
54935 T C S ATCAGCATAGACAGAGTGTTCAAACGGGATGTTCCATGGATAACCCTGAGCTTGATGGTAG
54935 T T S ATCAGCATAGACAGAGTGTTCAAATGGGATGTTCCATGGATAACCCTGAGCTTGATGGTAG
54935 IS [ct] GAACCATAAGTCATCAGGACATCTGAGAAGGTCAAAATCAGCATAGACAGAGTGTTCAAA[ct]GGGATGTTCCATGGAT
AACCCTGAGCTTGATGGTAGAATGGAAGATCTGACCAGTTGCAA
54937 I S GCTGTACTCACATATACCCACTGGCTGATATCAGGCT
54937 P C S ATGACGTGGCAGACGGGCACTACAGTAGGCY
54937 P T S CGCGCCGAGGAGGCACTACAGTAGGCY
54937 T C S AGAAGCCTACTGTAGTGCCCGCCTGATATCAGCCAGTGGGTATATGTGAGTACAGCTA
54937 T T S AGAAGCCTACTGTAGTGCCTGCCTGATATCAGCCAGTGGGTATATGTGAGTACAGCTA
54937 IS [ct] TACCATTGCAGAGAGCAAGAAGAACCCTCAGGGGTGTCAATAGAAGCCTACTGTAGTGCC[ct]GCCTGATATCAGCCA
GTGGGTATATGTGAGTACAGCTATACTAGTTTTGTTTGTTTGTTT
54956 I A CTGGGGCTGGCATCGCTTCTGGAACT
54956 P A A CGCGCCGAGGAGGCCATGGTAAAGTCTY
54956 P G A ATGACGTGGCAGACGGGCCATGGTAAAGTCY
54956 T A A TTGGAGACTTTACCATGGCCTGTTCCAGAAGCGATGCCAGCCCCAGCC
54956 T G A TTGGAGACTTTACCATGGCCCGTTCCAGAAGCGATGCCAGCCCCAGCC
54956 IS [ag] cctcctcctccatctgctgtgctctcactctggctggggctggccatcgctctctggaac[ag]tggccatggtaaagtctccaagccaagtcctctttcacctgcctcgtcccccctctgatccca
tt
54967 I S AGTCTGGAACAGTTCTGTCTTTCCTTGACTTGCCTAATCTTTACT
54967 P G S ATGACGTGGCAGACCATTTTGAAGATGACAGATGGY
54967 P T S CGCGCCGAGGAATTTTGAAGATGACAGATGGY
54967 T G S ATAGCCATCTGTCATCTTCAAAATGGTAAAGATTAGGCAAGTCAAGGAAAGACAGAACTGTTCCAGACTGA
54967 T T S ATAGCCATCTGTCATCTTCAAAATTGTAAAGATTAGGCAAGTCAAGGAAAGACAGAACTGTTCCAGACTGA


GTGACAGGCAAACTCAAATTGCAAGAAATGTCAAGTATAGCCATCTGTCATCTTCAAAAT[gt]GTAAAGATTAGGCAAGT
54967 IS [gt] CAAGGAAAGACAGAACTGTTCCAGACTGAAGAAGACTAAAGAA
54969 I A GGGGACATTTTGCAATGACTGTGAGGCATTACTAGCATTTAT
54969 P A A CGCGCCGAGGAAACCTGGAGGCTGGY
54969 P G A ATGACGTGGCAGACGAACCTGGAGGCTGGY
54969 T A A TGCCCCAGCCTCCAGGTTTTAAATGCTAGTAATGCCTCACAGTCATTGCAAAATGTCCCCAC
54969 T G A TGCCCCAGCCTCCAGGTTCTAAATGCTAGTAATGCCTCACAGTCATTGCAAAATGTCCCCAC
ACAGTGTTTGGAAACGTGTGGGGACATTTTGCAATGACTGTGAGGCATTACTAGCATTTA[ag]AACCTGGAGGCTGGG
54969 IS [ag] GCACTAAACATCCTGCCATGCTTGGGACAGCCTATACAAAGAATT
54972 I S TGAAAATTCTGTTTGTGGTAGTCACATGTACTGCTACTGT
54972 P C S ATGACGTGGCAGACGTGCTTCTTTCTCTCACTCY
54972 P G S CGCGCCGAGGCTGCTTCTTTCTCTCACTCY
54972 T C S GAGAGAGTGAGAGAAAGAAGCACCAGTAGCAGTACATGTGACTACCACAAACAGAATTTTCAGA
54972 T G S GAGAGAGTGAGAGAAAGAAGCAGCAGTAGCAGTACATGTGACTACCACAAACAGAATTTTCAGA
ggaaggaagaaaagaaggagaaaagaaaggaaggaagagtgagagaaagaagcc[cg]cagtagcagtacatgtgactaccacaaacagaatttttcagatcttttca
54972 IS [cg] cattacaatg
54976 I S CCCTTTCACTAGCTTCCTTTCCGAAGTTCCCCAT
54976 P G S ATGACGTGGCAGACCCATATCCATTGAGGCAGY
54976 P T S CGCGCCGAGGACATATCCATTGAGGCAGY
54976 T G S GCCCCTGCCTCAATGGATATGGTGGGGAACTTCGGAAAGGAAGCTAGTGAAAGGGAT
54976 T T S GCCCCTGCCTCAATGGATATGTTGGGGAACTTCGGAAAGGAAGCTAGTGAAAGGGAT
GACCAAAAGGGCTTCCCTAAGCTAGATCAGATATGTTCTGCCCCTGCCTCAATGGATATG[gt]TGGGGAACTTCGGAAA
54976 IS [gt] GGAAGCTAGTGAAAGGGATCACCCTTTGAATACTAAGCAGGATC
54982 I S AGACCTCCGCACTCTGGCTGATACAGGAATC
54982 P A S CGCGCCGAGGTTCCACTATTAGTAATCCATCCY
54982 P T S ATGACGTGGCAGACATCCACTATTAGTAATCCATCCY
54982 T A S ACTGGGATGGATTACTAATAGTGGAAATTCCTGTATCAGCCAGAGTGCGGAGGTCTTT
54982 T T S ACTGGGATGGATTACTAATAGTGGATATTCCTGTATCAGCCAGAGTGCGGAGGTCTTT
TTGCATTCTCAGAGGGGACAATCCAGGCTTTGGGCACTGGGATGGATTACTAATAGTGGA[at]ATTCCTGTATCAGCCA
54982 IS [at] GAGTGCGGAGGTCTTTTTGAGGCACCTATCTCCAATTACAGAA
54985 I S GAGTGCAGTCATCATTGTGCTGTTTCCTGTCTCCT
54985 P C S ATGACGTGGCAGACGTCATCCTCATCCCAGCY
54985 P T S CGCGCCGAGGATCATCCTCATCCCAGCY
54985 T C S GAGCGCTGGGATGAGGATGACGGAGACAGGAAACAGCACAATGATGACTGCACTCCC
54985 T T S GAGCGCTGGGATGAGGATGATGGAGACAGGAAACAGCACAATGATGACTGCACTCCC
gcaacaagtacccccaggatggtgaagctcagctatatagagcgctgggatgaggatga[ct]ggagacaggaaacagcacaatgatgactgcactcccccagagagtgcagtat
54985 IS [ct] ctagcagc
54994 I S CCCTTCTGAGGGCAGAGTGAGCTCATGCT
54994 P G S ATGACGTGGCAGACCCTGAAACATCTGCAGAGY
54994 P T S CGCGCCGAGGACTGAAACATCTGCAGAGY
54994 T G S CCCTCTCTGCAGATGTTTCAGGGCATGAGCTCACTCTGCCCTCAGAAGGGGC
54994 T T S CCCTCTCTGCAGATGTTTCAGTGCATGAGCTCACTCTGCCCTCAGAAGGGGC
ttccagctgaaacagcccctagggtgaggaccccctaacttcccttctgcagatgtttcag[gt]gcatgagctcactctgcccttcagaaggggccatgcaccatctcaccgggagc
54994 IS [gt] agcacctg
54996 I A CCAGAGCCCCTGGCCCGCTAGAAAT
54996 P A A CGCGCCGAGGATCTGAAGAATGCACAACCY
54996 P G A ATGACGTGGCAGACGTCTGAAGAATGCACAACCY
54996 T A A ACAGGGTTGTGCATTCTTCAGATTTTCTAGCGGGCCAGGGGCTCTGGTC
54996 T G A ACAGGGTTGTGCATTCTTCAGACTTTCTAGCGGGCCAGGGGCTCTGGTC
GCCTGTACCCTCTGCCATCACATGCCTCCCTTGGGACCAGAGCCCCTGGCCCGCTAGAAA[ag]TCTGAAGAATGCACA
54996 IS [ag] ACCCTGTAATGCCATCCTGGCAGTGCTGCAGCTATGCCTGTAACT
55006 I A GCTCGGAGGCTCCACATCAAGCGGAA
55006 P C A ATGACGTGGCAGACCCAACTACTATTGTCTGGTGY
55006 P T A CGCGCCGAGGTCAACTACTATTGTCTGGTGY
55006 T C A TTTGCACCAGACAATAGTAGTTGGTCCGCTTGATGTGGAGCCTCCGAGCAG
55006 T T A TTTGCACCAGACAATAGTAGTTGATCCGCTTGATGTGGAGCCTCCGAGCAG
TTGACCTCATGATGTTTTAACAGCAATAGTTCTCTGCTCGGAGGCTCCACATCAAGCGGA[ct]CAACTACTATTGTCTG
55006 IS [ct] GTGCAAAATCCTTCATAAGCCCGGCCTGATGACCAGGGTTGGGC
55007 I S GAATGGAAATACCTTACATATAAATCACCCTCCTTGGTTTATTATCGC
55007 P A S CGCGCCGAGGTGGCACTTAATTCCTTTGTY
55007 P T S ATGACGTGGCAGACAGGCACTTAATTCCTTTGTY
55007 T A S AAAGACAAAGGAATTAAGTGCCACGATAATAAACCAAGGAGGGTGATTTATATGTAAGGTATTTCCATTCAG
55007 T T S AAAGACAAAGGAATTAAGTGCCTCGATAATAAACCAAGGAGGGTGATTTATATGTAAGGTATTTCCATTCAG
TTACTAAGGAGCTACACCACGATTGTTCAGATAACATCAAAGACAAAGGAATTAAGTGCC[at]CGATAATAAACCAAGGA
55007 IS [at] GGGTGATTTATATGTAAGGTATTTCCATTCAGGTTCTAAAAAG
55009 I A GCCATTCACACAGGGAAAGAGAGGAGGCAA
55009 P C A ATGACGTGGCAGACCATTGTACTCACTGGTACATAGY
55009 P T A CGCGCCGAGGTATTGTACTCACTGGTACATAGY
55009 T C A ATTGCTATGTACCAGTGAGTACAATGTGCCTCCTCTCTTTCCCTGTGTGAATGGCAG
55009 T T A ATTGCTATGTACCAGTGAGTACAATATGCCTCCTCTCTTTCCCTGTGTGAATGGCAG
GAAATCAGGCAAAATAGTCACAATAAACACTGCCATTCACACAGGGAAAGAGAGGAGGCA[ct]ATTGTACTCACTGGTA
55009 IS [ct] CATAGCAATTCTACAATCCCACTGGATGGCGGGTCTATTTTTAG
55012 I S TCAAGGGCCAGGTGCATGGACAGGAA
55012 P A S CGCGCCGAGGTGACAAGATGACCCGTY
55012 P G S ATGACGTGGCAGACCGACAAGATGACCCGTY
55012 T A S GGCCACGGGTCATCTTGTCATCCTGTCCATGCACCTGGCCCTTGAAC
55012 T G S GGCCACGGGTCATCTTGTCGTCCTGTCCATGCACCTGGCCCTTGAAC
TCCTCACTACTACTGCCATGTGAACTGTGAGGCTGTCCTAAGGCCACGGGTCATCTTGTC[ag]TCCTGTCCATGCACC
55012 IS [ag] TGGCCCTTGAACTTCACAGGCAGAAGAGCATCTTTGCGTCTCCAA
55031 I S GCAGTGGGAATGGGGTGGCCCTGT
55031 P C S ATGACGTGGCAGACGTTTGCAAATTAAATTCAAGAGATATY
55031 P G S CGCGCCGAGGCTTTGCAAATTAAATTCAAGAGATATY
55031 T C S ATGCATATCTCTTGAATTTAATTTGCAAACCAGGGCCACCCCATTCCCACTGCGG
55031 T G S ATGCATATCTCTTGAATTTAATTTGCAAAGCAGGGCCACCCCATTCCCACTGCGG
TCCAGAAATCACTTCCCTGCTTCAGGGTTCAATGCATATCTCTTGAATTTAATTTGCAAA[cg]CAGGGCCACCCCATTCC
55031 IS [cg] CACTGCGGCATGGAACAGCTCTACCTGACACAACATTATCTGC
55033 I S TGTCGGCCTCATGGGGTTTGAGGGAGC
55033 P A S CGCGCCGAGGTCTGTAACGCATCCCAY
55033 P T S ATGACGTGGCAGACACTGTAACGCATCCCAY
55033 T A S TCTGTGGGATGCGTTACAGACTCCCTCAAACCCCATGAGGCCGACAGG
55033 T T S TCTGTGGGATGCGTTACAGTCTCCCTCAAACCCCATGAGGCCGACAGG
actggccgtggaggagctcccatccacttctgctgtgtctgtgggatgcgttacag[at]ctccctcaaccccatgaggccgacagggcaagtatatatccctggactcagtctg
55033 IS [at] tcc
55041 I A CTTGTGGCTTTAGAGTGTTGGAACAATATTTGTAAGGGACACCT
55041 P A A CGCGCCGAGGATCATTATCAGGAAGGGAAGY
55041 P G A ATGACGTGGCAGACGTCATTATCAGGAAGGGAAGY



55041 T A A TCTACTTCCCTTCCTGATAATGATGGTGTCCCTTACAAATATTGTTCCAACACTCTAAAGCCACAAGAT

55041 T G A TCTACTTCCCTTCCTGATAATGACGGTGTCCCTTACAAATATTGTTCCAACACTCTAAAGCCACAAGAT

55041 tS [ag] TGATTGAAGAAAACTATCTTGTGGCTTTAGAGTGTTGGAACAATATTTGTAAGGGACACC[ag]TCATTATCAGGAAGGG AAGTAGATGGAGCTTTTGTGGCTTTGGTGGGGTTTCATCCAGCT

55057 I S GAAAAATGGACCATAGTGGTGTAAGATGTTAACAACACGT

55057 P C S ATGACGTGGCAGACGTAAACTGGGAGTCGGGY

55057 P T S CGCGCCGAGGATAAACTGGGAGTCGGGY

55057 T C S TATACCCGACTCCCAGTTTACCGTGTTGTTAACATCTTACACCACTATGGTCCATTTTTCAC

55057 T T S TATACCCGACTCCCAGTTTATCGTGTTGTTAACATCTTACACCACTATGGTCCATTTTTCAC

55057 tS [ct] ATATACAAAAAGGTTACAAAGATAGTGGAGAGAGTTTCTGTATACCCGACTCCCAGTTTA[ct]CGTGTTGTTAACATCTT ACACCACTATGGTCCATTTTTCACTTTAATGAACCCATATTGA

55060 I S GGCAAAAAATGCTGTAACTGCAGGTATCCTGTACTGGATTTTTCT

55060 P C S ATGACGTGGCAGACGCATCCATCTTCATTTTTCTGY

55060 P T S CGCGCCGAGGACATCCATCTTCATTTTTCTGTY

55060 T C S TATGACAGAAAAATGAAGATGGATGCGAAAAATCCAGTACAGGATACCTGCAGTTACAGCATTTTTTGCCAA

55060 T T S TATGACAGAAAAATGAAGATGGATGTGAAAAATCCAGTACAGGATACCTGCAGTTACAGCATTTTTTGCCAA

55060 tS [ct]

55061 I S GGCTGGTTTTTAGCAGGAGTACTAGGTGGAGCAT

55061 P C S ATGACGTGGCAGACGTGGTTCTCAAAAATACTGGAY

55061 P T S CGCGCCGAGGATGGTTCTCAAAAATACTGGAY

55061 T C S CAAATCCAGTATTTTTGAGAACCACTGCTCCACCTAGTACTCCTGCTAAAAACCAGCCCA

55061 T T S CAAATCCAGTATTTTTGAGAACCATTGCTCCACCTAGTACTCCTGCTAAAAACCAGCCCA

55061 tS [ct]

55067 I A CAGTGTATCCCAGTGCCTCACACATATTAGGCACTCAATATAT

55067 P A A CGCGCCGAGGAGTTGGCTGAATGAATGTTY

55067 P G A ATGACGTGGCAGACGGTTGGCTGAATGAATGTY

55067 T A A TATCAACATTCATTCAGCCAACTTATATTGAGTGCCTAATATGTGTGAGGCACTGGGATACACTGAT

55067 T G A TATCAACATTCATTCAGCCAACCTATATTGAGTGCCTAATATGTGTGAGGCACTGGGATACACTGAT

55067 tS [ag] AGATCGTGGTGTATTCATCAGTGTATCCCAGTGCCTCACACATATTAGGCACTCAATATA[ag]GTTGGCTGAATGAATG TTGATAGAGAGGGACTGATGGGGGCAAAAGCCTGGCAGCAGAAC

55068 I S TGAGGTCTGCCACCCAGGAGACACTGAAT

55068 P C S ATGACGTGGCAGACGTGTGTAGACTGTGCTATGY

55068 P T S CGCGCCGAGGATGTGTAGACTGTGCTATGAY

55068 T C S GATATCATAGCACAGTCTACACACTTCAGTGTCTCCTGGGTGGCAGACCTCACA

55068 T T S GATATCATAGCACAGTCTACACATTTCAGTGTCTCCTGGGTGGCAGACCTCACA

55068 tS [ct] GTTAAATCTTCTTCTATTTTATTTAGGAATCTCATTGGATATCATAGCACAGTCTACACA[ct]TTCAGTGTCTCCTGGGTG GCAGACCTCACAGAATGAAGCCAGGAGCCTTATGCTGAGAGA

55072 I S CACGGTTTATATTAAGAAATGTAGCCACATGTATAATAATAGCTACCATTTTCT

55072 P C S ATGACGTGGCAGACGGGATGTATTCTTTTGCATTCY

55072 P T S CGCGCCGAGGAGGATGTATTCTTTTGCATTCY

55072 T C S ATATGAATGCAAAAGAATACATCCCGAAAATGGTAGCTATTATTATACATGTGGCTACATTTCTTAATATAAACCGTGAA

55072 T T S ATATGAATGCAAAAGAATACATCCTGAAAATGGTAGCTATTATTATACATGTGGCTACATTTCTTAATATAAACCGTGAA

55072 tS [ct]

55074 I A CCCATAGAAAGATCTCAGATCTGCAGCCAAAGAGCTT

55074 P A A CGCGCCGAGGAGTTCTCCTCAGTTTCATCTY

55074 P G A ATGACGTGGCAGACGGTTCTCCTCAGTTTCATCY

55074 T A A TGCAAGATGAAACTGAGGAGAACTAGCTCTTTGGCTGCAGATCTGAGATCTTTCTATGGGAG

55074 T G A TGCAAGATGAAACTGAGGAGAACCAGCTCTTTGGCTGCAGATCTGAGATCTTTCTATGGGAG

55074 tS [ag] TGTGATTTAGCTCCTTTTTGTCCTCCCATAGAAAGATCTCAGATCTGCAGCCAAAGAGCT[ag]GTTCTCCTCAGTTTCAT CTTGCATATCACAGTGCATTTGTAAAATTTGGAAAGCTATCTA

55075 I S ACCTGGACGCACTGATAAGTCATCTACTTGGACATACAT

55075 P G S ATGACGTGGCAGACCTAATGTATCTGTGTGCTGAY

55075 P T S CGCGCCGAGGATAATGTATCTGTGTGCTGAGY

55075 T G S CTTTCTCAGCACACAGATACATTAGTGTATGTCCAAGTAGATGACTTATCAGTGCGTCCAGGTCC

55075 T T S CTTTCTCAGCACACAGATACATTATTGTATGTCCAAGTAGATGACTTATCAGTGCGTCCAGGTCC

55075 tS [gt]

55077 I S GGGGTGAAGTGGTGTATGAGAGGTGGGGTT

55077 P C S ATGACGTGGCAGACGAGTCTGAGGAACAATAGTTTY

55077 P T S CGCGCCGAGGAAGTCTGAGGAACAATAGTTTY

55077 T C S TTCCAAACTATTGTTCCTCAGACTCACCCCACCTCTCATACACCACTTCACCCCCT

55077 T T S TTCCAAACTATTGTTCCTCAGACTTACCCCACCTCTCATACACCACTTCACCCCCT

55077 tS [ct] TGAGTTACCCGCATTTTCTGGGACTTCTGAAATAACTTCCAAACTATTGTTCCTCAGACT[ct]ACCCCACCTCTCATACA CCACTTCACCCCCTGCCCCCAAACACACAAAAGCAAAGTGATC

55083 I A CCTTTCCATTTAGTTTTGCCAAGGGGATGTCATCCAT

55083 P A A CGCGCCGAGGAGGATACTAAGGCAGAGTTAY

55083 P G A ATGACGTGGCAGACGGGATACTAAGGCAGAGTY

55083 T A A ACTCTAACTCTGCCTTAGTATCCTTGGATGACATCCCCTTGGCAAAACTAAATGGAAAGGGG

55083 T G A ACTCTAACTCTGCCTTAGTATCCCTGGATGACATCCCCTTGGCAAAACTAAATGGAAAGGGG

55083 tS [ag] TATTTCTTCTGTCAGAGGTTGTCCCCTTTCCATTTAGTTTTGCCAAGGGGATGTCATCCA[ag]GGATACTAAGGCAGAG TTAGAGTGTGATCATAAGAATTACAAGGTGCAAAGAAACACTGC

55085 I A GCTCAAGGCTTTATTCTGCAGATCATACAGACAAATGTAATAAAAAT

55085 P A A CGCGCCGAGGATCAAACGGGTATAAGCATATY

55085 P G A ATGACGTGGCAGACGTCAAACGGGTATAAGCATY

55085 T A A ATTGATATGCTTATACCCGTTTGATTTTTTATTACATTTGTCTGTATGATCTGCAGAATAAAGCCTTGAGCTA

55085 T G A ATTGATATGCTTATACCCGTTTGACTTTTTATTACATTTGTCTGTATGATCTGCAGAATAAAGCCTTGAGCTA

55085 tS [ag]

55086 I A GTGATTTCCTTGCAAACTGGGTACTTTTATATCAGAGAAGCCAACT

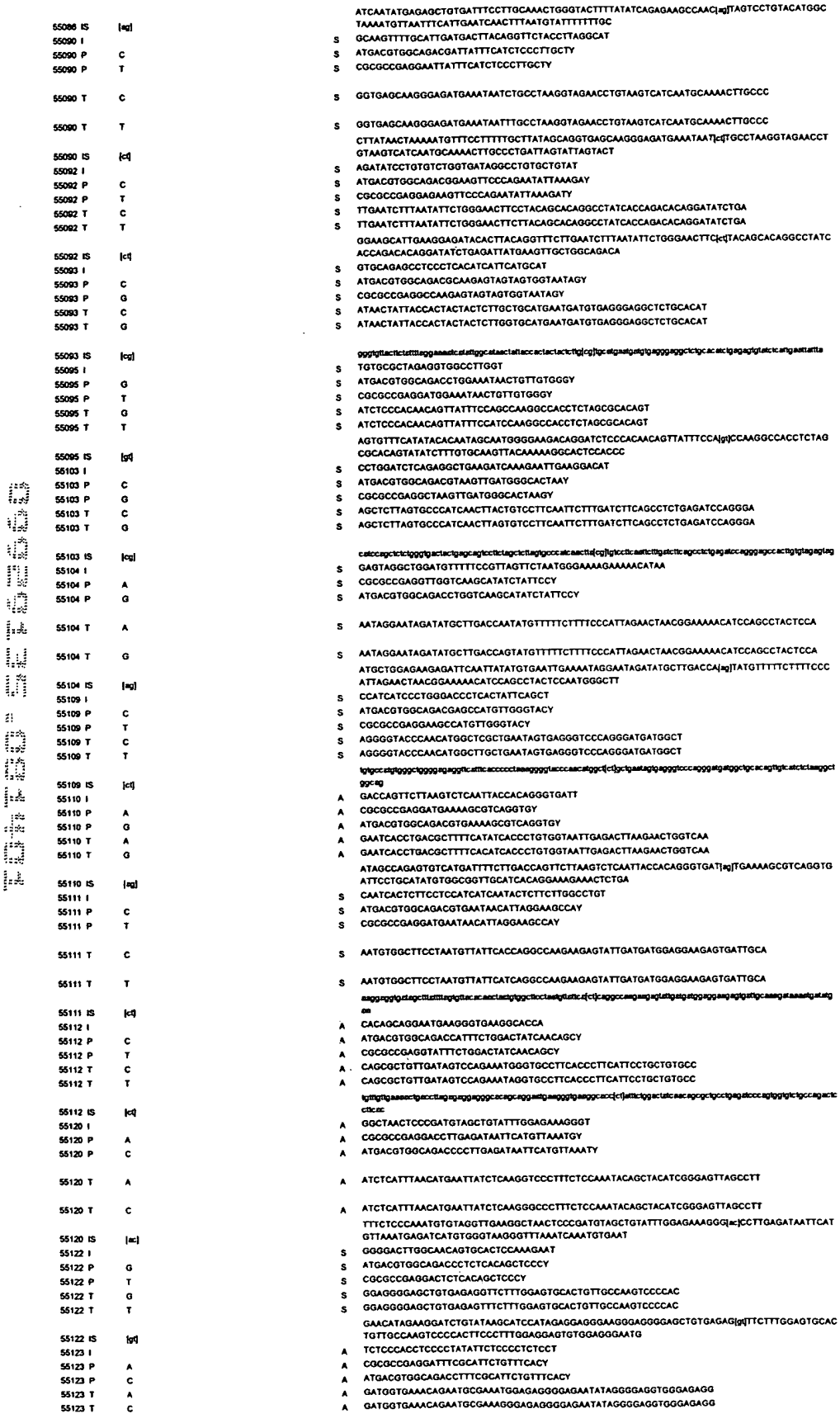
55086 P A A CGCGCCGAGGATAGTCCTGTACATGGCTAAY

55086 P G A ATGACGTGGCAGACGTAGTCCTGTACATGGCTY

55086 T A A CATTTTAGCCATGTACAGGACTATGTTGGCTTCTCTGATATAAAAGTACCCAGTTTGCAAGGAAATCACAG

55086 T G A CATTTTAGCCATGTACAGGACTACGTTGGCTTCTCTGATATAAAAGTACCCAGTTTGCAAGGAAATCACAG

FIGURE 129D


55086 IS [ag] ATCAATATGAGAGCTGTGATTTCCTTGCAAACTGGGTACTTTTATATCAGAGAAGCCAAC[ag]TAGTCCTGTACATGGC TAAAATGTTAATTTCATTGAATCAACTTTAATGTATTTTTTTGC
55090 I S GCAAGTTTTGCATTGATGACTTACAGGTTCTACCTTAGGCAT
55090 P C S ATGACGTGGCAGACGATTATTTCATCTCCCTTGCTY
55090 P T S CGCGCCGAGGAATTATTTCATCTCCCTTGCTY
55090 T C S GGTGAGCAAGGGAGATGAAATAATCTGCCTAAGGTAGAACCTGTAAGTCATCAATGCAAAACTTGCCC
55090 T T S GGTGAGCAAGGGAGATGAAATAATTTGCCTAAGGTAGAACCTGTAAGTCATCAATGCAAAACTTGCCC
55090 IS [ct] CTTATAACTAAAAATGTTTCCTTTTTGCTTATAGCAGGTGAGCAAGGGAGATGAAATAAT]ct]TGCCTAAGGTAGAACCT GTAAGTCATCAATGCAAAACTTGCCCTGATTAGTATTAGTACT
55092 I S AGATATCCTGTGTCTGGTGATAGGCCTGTGCTGTAT
55092 P C S ATGACGTGGCAGACGGAAGTTCCCAGAATATTAAAGAY
55092 P T S CGCGCCGAGGAGAAGTTCCCAGAATATTAAAGATY
55092 T C S TTGAATCTTTAATATTCTGGGAACTTCCTACAGCACAGGCCTATCACCAGACACAGGATATCTGA
55092 T T S TTGAATCTTTAATATTCTGGGAACTTCTTACAGCACAGGCCTATCACCAGACACAGGATATCTGA
55092 IS [ct] GGAAGCATTGAAGGAGATACACTTACAGGTTTCTTGAATCTTTAATATTCTGGGAACTTC[ct]TACAGCACAGGCCTATC ACCAGACACAGGATATCTGAGATTATGAAGTTGCTGGCAGACA
55093 I S GTGCAGAGCCTCCCTCACATCATTCATGCAT
55093 P C S ATGACGTGGCAGACGCAAGAGTAGTAGTGGTAATAGY
55093 P G S CGCGCCGAGGCCAAGAGTAGTAGTGGTAATAGY
55093 T C S ATAACTATTACCACTACTACTCTTGCTGCATGAATGATGTGAGGGAGGCTCTGCACAT
55093 T G S ATAACTATTACCACTACTACTCTTGGTGCATGAATGATGTGAGGGAGGCTCTGCACAT
55093 IS [cg] gggtgttacttctatttttaggaaaatccatattggcataactattaccactactactctg[cg]tgcatgaatgatgtgagggaggctctgcacatctgagagtgtatctcatgaattattta
55095 I S TGTGCGCTAGAGGTGGCCTTGGT
55095 P G S ATGACGTGGCAGACCTGGAAATAACTGTTGTGGGY
55095 P T S CGCGCCGAGGATGGAAATAACTGTTGTGGGY
55095 T G S ATCTCCCACAACAGTTATTTCCAGCCAAGGCCACCTCTAGCGCACAGT
55095 T T S ATCTCCCACAACAGTTATTTCCATCCAAGGCCACCTCTAGCGCACAGT
55095 IS [gt] AGTGTTTCATATACACAATAGCAATGGGGAAGACAGGATCTCCCACAACAGTTATTTCCA[gt]CCAAGGCCACCTCTAG CGCACAGTATATCTTTGTGCAAGTTACAAAAAGGCACTCCACCC
55103 I S CCTGGATCTCAGAGGCTGAAGATCAAAGAATTGAAGGACAT
55103 P C S ATGACGTGGCAGACGTAAGTTGATGGGCACTAAY
55103 P G S CGCGCCGAGGCTAAGTTGATGGGCACTAAGY
55103 T C S AGCTCTTAGTGCCCATCAACTTACTGTCCTTCAATTCTTTGATCTTCAGCCTCTGAGATCCAGGGA
55103 T G S AGCTCTTAGTGCCCATCAACTTAGTGTCCTTCAATTCTTTGATCTTCAGCCTCTGAGATCCAGGGA
55103 IS [cg] catccagctctctgggtgactactgagcagtcctctagctctagtgccctatcaactta[cg]tgtcctcaattcttgatcttcagcctctgagatccagggagccactgtgtgtagagtag
55104 I S GAGTAGGCTGGATGTTTTTCCGTTAGTTCTAATGGGAAAAGAAAAACATAA
55104 P A S CGCGCCGAGGTTGGTCAAGCATATCTATTCCY
55104 P G S ATGACGTGGCAGACCTGGTCAAGCATATCTATTCCY
55104 T A S AATAGGAATAGATATGCTTGACCAATATGTTTTTCTTTTCCCATTAGAACTAACGGAAAAACATCCAGCCTACTCCA
55104 T G S AATAGGAATAGATATGCTTGACCAGTATGTTTTTCTTTTCCCATTAGAACTAACGGAAAAACATCCAGCCTACTCCA
55104 IS [ag] ATGCTGGAGAAGAGATTCAATTATATGTGAATTGAAAATAGGAATAGATATGCTTGACCA[ag]TATGTTTTTCTTTTCCC ATTAGAACTAACGGAAAAACATCCAGCCTACTCCAATGGGCTT
55109 I S CCATCATCCCTGGGACCCTCACTATTCAGCT
55109 P C S ATGACGTGGCAGACGAGCCATGTTGGGTACY
55109 P T S CGCGCCGAGGAAGCCATGTTGGGTACY
55109 T C S AGGGGTACCCAACATGGCTCGCTGAATAGTGAGGGTCCCAGGGATGATGGCT
55109 T T S AGGGGTACCCAACATGGCTTGCTGAATAGTGAGGGTCCCAGGGATGATGGCT
55109 IS [ct] tgtgccatgtgggctgggtgatgggtccattcacccccctaaggggtacccaaccatggct[ct]gctgaatagtgagggtcccagggatgatggctgcacagttgtcatctctaaggct ggcag
55110 I A GACCAGTTCTTAAGTCTCAATTACCACAGGGTGATT
55110 P A A CGCGCCGAGGATGAAAAGCGTCAGGTGY
55110 P G A ATGACGTGGCAGACGTGAAAAGCGTCAGGTGY
55110 T A A GAATCACCTGACGCTTTTCATATCACCCTGTGGTAATTGAGACTTAAGAACTGGTCAA
55110 T G A GAATCACCTGACGCTTTTCACATCACCCTGTGGTAATTGAGACTTAAGAACTGGTCAA
55110 IS [ag] ATAGCCAGAGTGTCATGATTTTCTTGACCAGTTCTTAAGTCTCAATTACCACAGGGTGAT]ag]TGAAAAGCGTCAGGTG ATTCCTGCATATGTGGCGGTTGCATCACAGGAAAGAAACTCTGA
55111 I S CAATCACTCTTCCTCCATCATCAATACTCTTCTTGGCCTGT
55111 P C S ATGACGTGGCAGACGTGAATAACATTAGGAAGCCAY
55111 P T S CGCGCCGAGGATGAATAACATTAGGAAGCCAY
55111 T C S AATGTGGCTTCCTAATGTTATTCACCAGGCCAAGAAGAGTATTGATGATGGAGGAAGAGTGATTGCA
55111 T T S AATGTGGCTTCCTAATGTTATTCATCAGGCCAAGAAGAGTATTGATGATGGAGGAAGAGTGATTGCA
55111 IS [ct] aaggaggtgctagcttctttttagtgttacacaacctaatgtggcttcctaatgttattc[ct]caggccaagaagagtattgatgatggaggaagagtgattgcaaagtaaaatgtatatg aa
55112 I A CACAGCAGGAATGAAGGGTGAAGGCACCA
55112 P C A ATGACGTGGCAGACCATTTCTGGACTATCAACAGCY
55112 P T A CGCGCCGAGGTATTTCTGGACTATCAACAGCY
55112 T C A CAGCGCTGTTGATAGTCCAGAAATGGGTGCCTTCACCCTTCATTCCTGCTGTGCC
55112 T T A CAGCGCTGTTGATAGTCCAGAAATAGGTGCCTTCACCCTTCATTCCTGCTGTGCC
55112 IS [ct] tgttgttgaaaactgacctagatgaggagggcacagcaggaatgaagggtgaaggcacc[ct]attctggactatcaacagcgctgccagatcccagtggtgtctgccagactc ctcac
55120 I A GGCTAACTCCCGATGTAGCTGTATTTGGAGAAAGGGT
55120 P A A CGCGCCGAGGACCTTGAGATAATTCATGTTAAATGY
55120 P C A ATGACGTGGCAGACCCCTTGAGATAATTCATGTTAAATY
55120 T A A ATCTCATTTAACATGAATTATCTCAAGGTCCCTTTCTCCAAATACAGCTACATCGGGAGTTAGCCTT
55120 T C A ATCTCATTTAACATGAATTATCTCAAGGGCCCTTTCTCCAAATACAGCTACATCGGGAGTTAGCCTT
55120 IS [ac] TTTCTCCCAAATGTGTAGGTTGAAGGCTAACTCCCGATGTAGCTGTATTTGGAGAAAGGG[ac]CCTTGAGATAATTCAT GTTAAATGAGATCATGTGGGTAAGGGTTTAAATCAAATGTGAAT
55122 I S GGGGACTTGGCAACAGTGCACTCCAAAGAAT
55122 P G S ATGACGTGGCAGACCCTCTCACAGCTCCCY
55122 P T S CGCGCCGAGGACTCTCACAGCTCCCY
55122 T G S GGAGGGGAGCTGTGAGAGGTTCTTTGGAGTGCACTGTTGCCAAGTCCCCAC
55122 T T S GGAGGGGAGCTGTGAGAGTTTCTTTGGAGTGCACTGTTGCCAAGTCCCCAC
55122 IS [gt] GAACATAGAAGGATCTGTATAAGCATCCATAGAGGAGGGAAGGGAGGGGAGCTGTGAGAG[gt]TTCTTTGGAGTGCAC TGTTGCCAAGTCCCCACTTCCCTTTGGAGGAGTGTGGAGGGAATG
55123 I A TCTCCCACCTCCCCTATATTCTCCCCTCTCCT
55123 P A A CGCGCCGAGGATTTCGCATTCTGTTTCACY
55123 P C A ATGACGTGGCAGACCTTTCGCATTCTGTTTCACY
55123 T A A GATGGTGAAACAGAATGCGAAATGGAGAGGGGAGAATATAGGGGAGGTGGGAGAGG
55123 T C A GATGGTGAAACAGAATGCGAAAGGGAGAGGGGAGAATATAGGGGAGGTGGGAGAGG

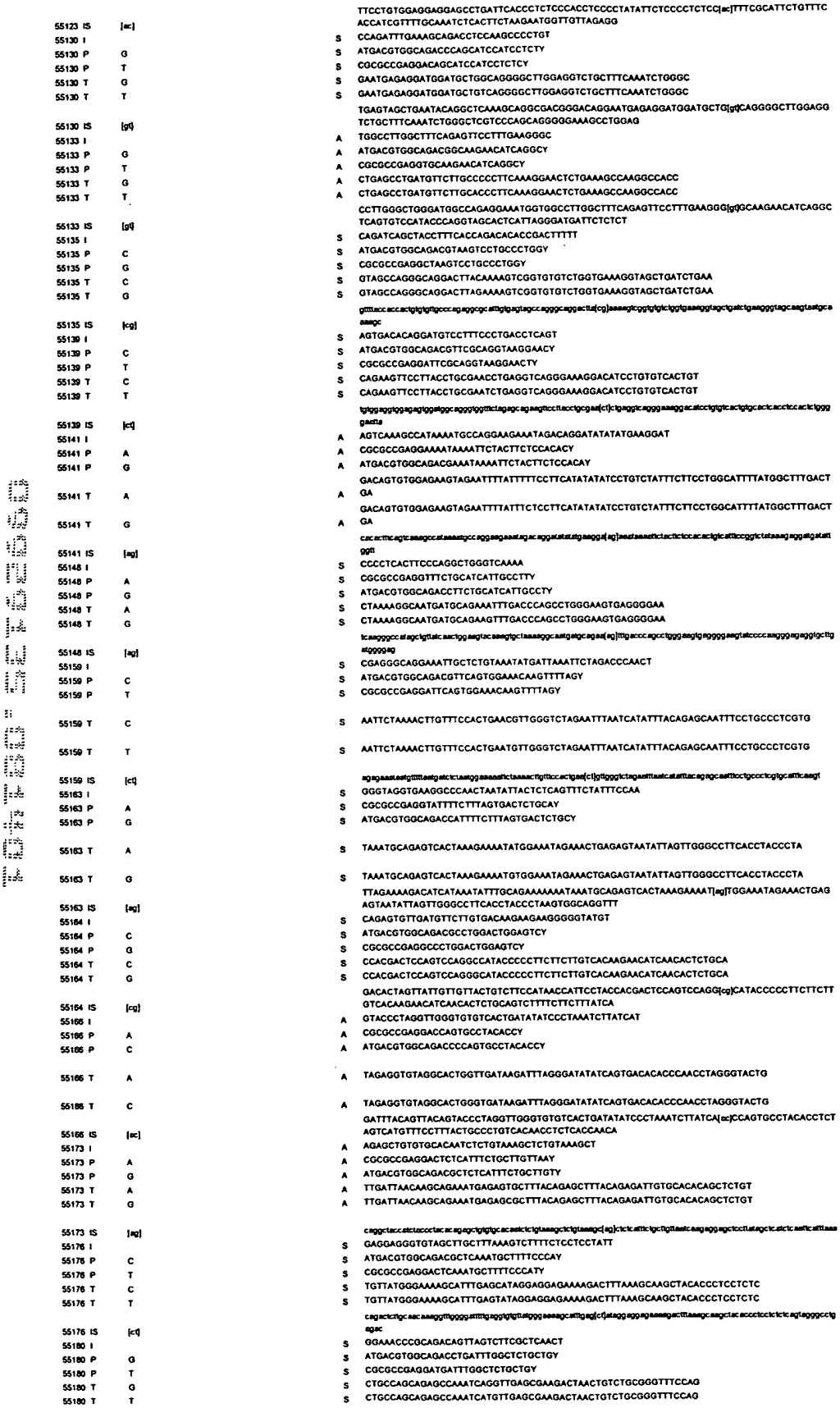
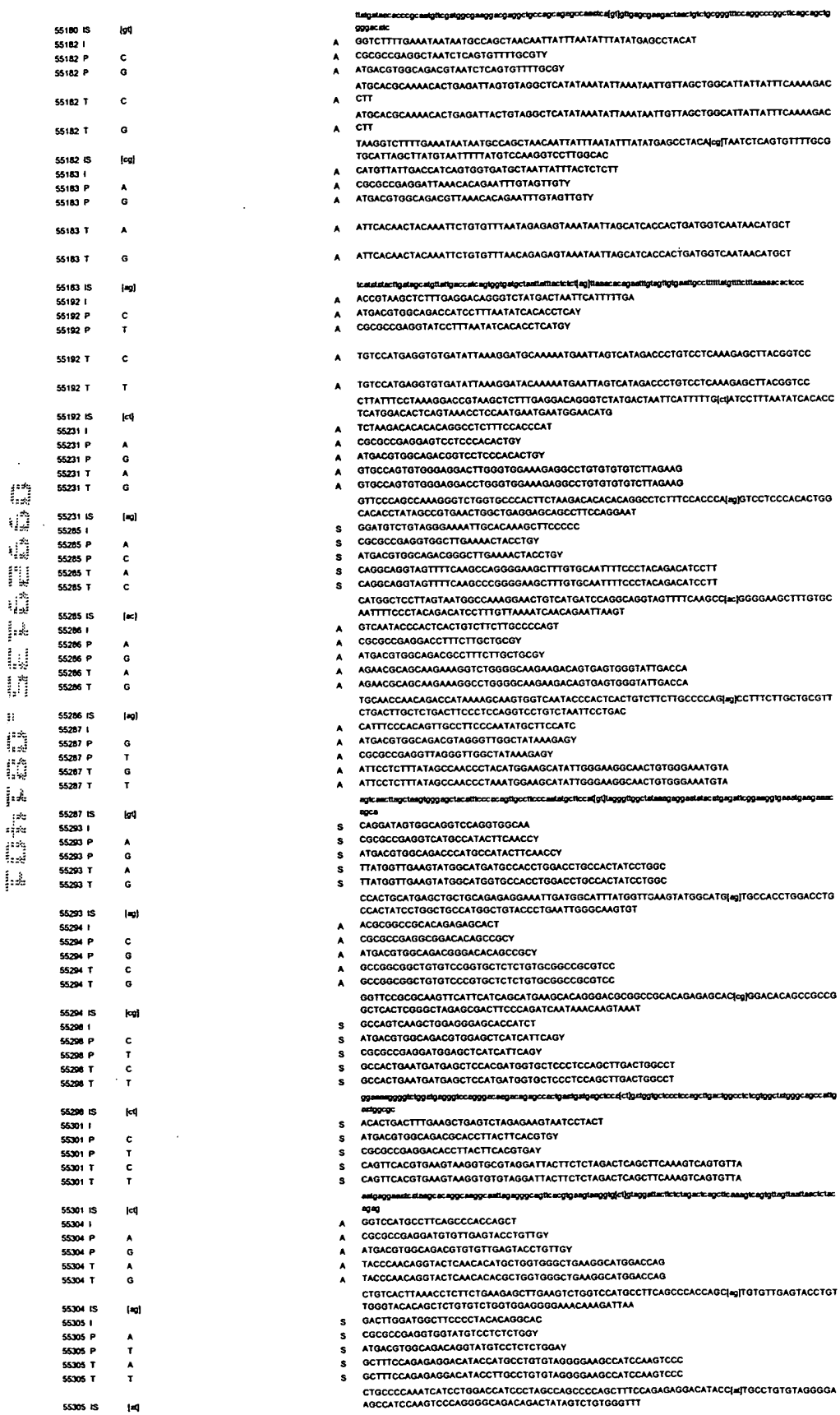
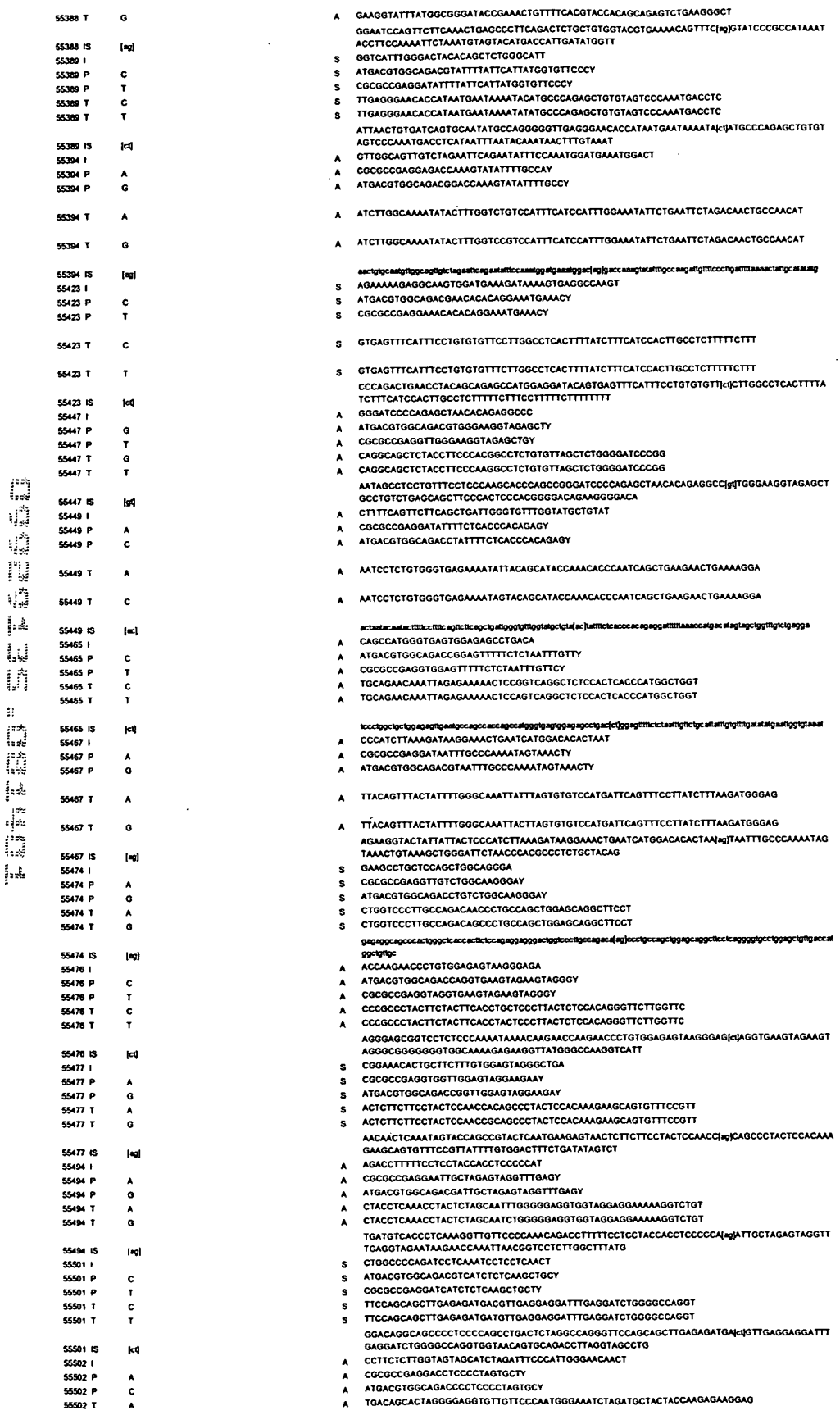
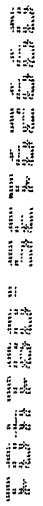


FIGURE 129D






55388 T G A GAAGGTATTTATGGCGGGATACCGAAACTGTTTTCACGTACCACAGCAGAGTCTGAAGGGCT
GGAATCCAGTTCTTCAAACTGAGCCCTTCAGACTCTGCTGTGGTACGTGAAAACAGTTTC[ag]GTATCCCGCCATAAAT
55388 IS [ag] ACCTTCCAAAATTCTAAATGTAGTACATGACCATTGATATGGTT
55389 I S GGTCATTTGGGACTACACAGCTCTGGGCATT
55389 P C S ATGACGTGGCAGACGTATTTTATTCATTATGGTGTTCCCY
55389 P T S CGCGCCGAGGATATTTTATTCATTATGGTGTTCCCY
55389 T C S TTGAGGGAACACCATAATGAATAAAATACATGCCCAGAGCTGTGTAGTCCCAAATGACCTC
55389 T T S TTGAGGGAACACCATAATGAATAAAATATATGCCCAGAGCTGTGTAGTCCCAAATGACCTC
ATTAACTGTGATCAGTGCAATATGCCAGGGGGTTGAGGGAACACCATAATGAATAAAATA[ct]ATGCCCAGAGCTGTGT
55389 IS [ct] AGTCCCAAATGACCTCATAATTTAATACAAATAACTTTGTAAAT
55394 I A GTTGGCAGTTGTCTAGAATTCAGAATATTTCCAAATGGATGAAATGGACT
55394 P A A CGCGCCGAGGAGACCAAAGTATATTTTGCCAY
55394 P G A ATGACGTGGCAGACGGACCAAAGTATATTTTGCCY
55394 T A A ATCTTGGCAAAATATACTTTGGTCTGTCCATTTCATCCATTTGGAAATATTCTGAATTCTAGACAACTGCCAACAT
55394 T G A ATCTTGGCAAAATATACTTTGGTCCGTCCATTTCATCCATTTGGAAATATTCTGAATTCTAGACAACTGCCAACAT
55394 IS [ag] aactgtgcaatgtggcagttgtctagaattcagaatatttccaaatggatgaaatggac[ag]gaccaaagtatatttgccaagattgtttcccthgatttttaaaactattgcatatatg
55423 I S AGAAAAAGAGGCAAGTGGATGAAAGATAAAAGTGAGGCCAAGT
55423 P C S ATGACGTGGCAGACGAACACACAGGAAATGAAACY
55423 P T S CGCGCCGAGGAAACACACAGGAAATGAAACY
55423 T C S GTGAGTTTCATTTCCTGTGTGTTCCTTGGCCTCACTTTTATCTTTCATCCACTTGCCTCTTTTTCTTT
55423 T T S GTGAGTTTCATTTCCTGTGTGTTTCTTGGCCTCACTTTTATCTTTCATCCACTTGCCTCTTTTTCTTT
CCCAGACTGAACCTACAGCAGAGCCATGGAGGATACAGTGAGTTTCATTTCCTGTGTGTT[ct]CTTGGCCTCACTTTTA
55423 IS [ct] TCTTTCATCCACTTGCCTCTTTTTCTTTCCTTTTTCTTTTTTTT
55447 I A GGGATCCCCAGAGCTAACACAGAGGCCC
55447 P G A ATGACGTGGCAGACGTGGGAAGGTAGAGCTY
55447 P T A CGCGCCGAGGTTGGGAAGGTAGAGCTGY
55447 T G A CAGGCAGCTCTACCTTCCCACGGCCTCTGTGTTAGCTCTGGGGATCCCGG
55447 T T A CAGGCAGCTCTACCTTCCCAAGGCCTCTGTGTTAGCTCTGGGGATCCCGG
AATAGGCTCCTGTTTCCTCCCAAGCACCCAGCCGGGATCCCCAGAGCTAACACAGAGGCC[gt]TGGGAAGGTAGAGCT
55447 IS [gt] GCCTGTCTGAGCAGCTTCCCACTCCCACGGGGACAGAAGGGGACA
55449 I A CTTTTCAGTTCTTCAGCTGATTGGGTGTTTGGTATGCTGTAT
55449 P A A CGCGCCGAGGATATTTTCTCACCCACAGAGY
55449 P C A ATGACGTGGCAGACCTATTTTCTCACCCACAGAGY
55449 T A A AATCCTCTGTGGGTGAGAAAATATTACAGCATACCAAACACCCAATCAGCTGAAGAACTGAAAAGGA
55449 T C A AATCCTCTGTGGGTGAGAAAATAGTACAGCATACCAAACACCCAATCAGCTGAAGAACTGAAAAGGA
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55449 IS [ac] CAGCCATGGGTGAGTGGAGAGCCTGACA
55465 I A ATGACGTGGCAGACCGGAGTTTTTCTCTAATTTGTTY
55465 P C A CGCGCCGAGGTGGAGTTTTTCTCTAATTTGTTCY
55465 P T A TGCAGAACAAATTAGAGAAAAACTCCGGTCAGGCTCTCCACTCACCCATGGCTGGT
55465 T C A TGCAGAACAAATTAGAGAAAAACTCCAGTCAGGCTCTCCACTCACCCATGGCTGGT
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55465 IS [ct] CCCATCTTAAAGATAAGGAAACTGAATCATGGACACACTAAT
55467 I A CGCGCCGAGGATAATTTGCCCAAAATAGTAAACTY
55467 P A A ATGACGTGGCAGACGTAATTTGCCCAAAATAGTAAACTY
55467 P G A TTACAGTTTACTATTTTGGGCAAATTATTTAGTGTGTCCATGATTCAGTTTCCTTATCTTTAAGATGGGAG
55467 T A A TTACAGTTTACTATTTTGGGCAAATTACTTAGTGTGTCCATGATTCAGTTTCCTTATCTTTAAGATGGGAG
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55467 IS [ag] TAAACTGTAAAGCTGGGATTCTAACCCACGCCCTCTGCTACAG
55474 I S GAAGCCTGCTCCAGCTGGCAGGGA
55474 P A S CGCGCCGAGGTTGTCTGGCAAGGGAY
55474 P G S ATGACGTGGCAGACCTGTCTGGCAAGGGAY
55474 T A S CTGGTCCCTTGCCAGACAACCCTGCCAGCTGGAGCAGGCTTCCT
55474 T G S CTGGTCCCTTGCCAGACAGCCCTGCCAGCTGGAGCAGGCTTCCT
gagaggcagcccactgggctcaccactctccagaggagggactggtccctgccagac[ag]ccctgccagctggagcaggctcctcagggggtgcctggagctgttgaccat
55474 IS [ag] ggctgttgc
55476 I A ACCAAGAACCCTGTGGAGAGTAAGGGAGA
55476 P C A ATGACGTGGCAGACCAGGTGAAGTAGAAGTAGGGY
55476 P T A CGCGCCGAGGTAGGTGAAGTAGAAGTAGGGY
55476 T C A CCCGCCCTACTTCTACTTCACCTGCTCCCTTACTCTCCACAGGGTTCTTGGTTC
55476 T T A CCCGCCCTACTTCTACTTCACCTACTCCCTTACTCTCCACAGGGTTCTTGGTTC
AGGGAGCGGTCCTCTCCCAAAATAAAACAAGAACCAAGAACCCTGTGGAGAGTAAGGGAG[ct]AGGTGAAGTAGAAGT
55476 IS [ct] AGGGCGGGGGGGTGGCAAAAGAGAAGGTTATGGGCCAAGGTCATT
55477 I S CGGAAACACTGCTTCTTTGTGGAGTAGGGCTGA
55477 P A S CGCGCCGAGGTGGTTGGAGTAGGAAGAAY
55477 P G S ATGACGTGGCAGACCGGTTGGAGTAGGAAGAY
55477 T A S ACTCTTCTTCCTACTCCAACCACAGCCCTACTCCACAAAGAAGCAGTGTTTCCGTT
55477 T G S ACTCTTCTTCCTACTCCAACCGCAGCCCTACTCCACAAAGAAGCAGTGTTTCCGTT
AACAACTCAAATAGTACCAGCCGTACTCAATGAAGAGTAACTCTTCTTCCTACTCCAACC[ag]CAGCCCTACTCCACAAA
55477 IS [ag] GAAGCAGTGTTTCCGTTATTTTGTGGACTTTCTGATATAGTCT
55494 I A AGACCTTTTTCCTCCTACCACCTCCCCCAT
55494 P A A CGCGCCGAGGAATTGCTAGAGTAGGTTTGAGY
55494 P G A ATGACGTGGCAGACGATTGCTAGAGTAGGTTTGAGY
55494 T A A CTACCTCAAACCTACTCTAGCAATTTGGGGGAGGTGGTAGGAGGAAAAAGGTCTGT
55494 T G A CTACCTCAAACCTACTCTAGCAATCTGGGGGAGGTGGTAGGAGGAAAAAGGTCTGT
TGATGTCACCCTCAAAGGTTGTTCCCCAAACAGACCTTTTTCCTCCTACCACCTCCCCCA[ag]ATTGCTAGAGTAGGTT
55494 IS [ag] TGAGGTAGAATAAGAACCAAATTAACGGTCCTCTTGGCTTTATG
55501 I S CTGGCCCCAGATCCTCAAATCCTCCTCAACT
55501 P C S ATGACGTGGCAGACGTCATCTCTCAAGCTGCY
55501 P T S CGCGCCGAGGATCATCTCTCAAGCTGCTY
55501 T C S TTCCAGCAGCTTGAGAGATGACGTTGAGGAGGATTTGAGGATCTGGGGCCAGGT
55501 T T S TTCCAGCAGCTTGAGAGATGATGTTGAGGAGGATTTGAGGATCTGGGGCCAGGT
GGACAGGCAGCCCCTCCCCAGCCTGACTCTAGGCCAGGGTTCCAGCAGCTTGAGAGATGA[ct]GTTGAGGAGGATTT
55501 IS [ct] GAGGATCTGGGGCCAGGTGGTAACAGTGCAGACCTTAGGTAGCCTG
55502 I A CCTTCTCTTGGTAGTAGCATCTAGATTTCCCATTGGGAACAACT
55502 P A A CGCGCCGAGGACCTCCCCTAGTGCTY
55502 P C A ATGACGTGGCAGACCCCTCCCCTAGTGCY
55502 T A A TGACAGCACTAGGGGAGGTGTTGTTCCCAATGGGAAATCTAGATGCTACTACCAAGAGAAGGAG



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55502 T     C     A  TGACAGCACTAGGGGAGGGGTTGTTCCCAATGGGAAATCTAGATGCTACTACCAAGAGAAGGAG
                   TACTATAAACCATTCCTCCTTCTCTTGGTAGTAGCATCTAGATTTCCCATTGGGAACAAC[ac]CCTCCCCTAGTGCTGTC
55502 IS    [ac]     AATCAATGTGCTTGTGTTCTTCCTAACCACGGAAGGTTCTTTCT
55508 I           S  GCCGGTGGAGCAAGCCTGGAAGGAA
55508 P     A     S  CGCGCCGAGGTCACAGGGCCACATGY
55508 P     G     S  ATGACGTGGCAGACCCACAGGGCCACATY
55508 T     A     S  GAACCATGTGGCCCTGTGATCCTTCCAGGCTTGCTCCACCGGCAT
55508 T     G     S  GAACCATGTGGCCCTGTGGTCCTTCCAGGCTTGCTCCACCGGCAT
                   CTGGCCTCTGAGTTCCCTACATCTAAGCCATGCCCATCACCAGAACCATGTGGCCCTGTG[ag]TCCTTCCAGGCTTGC
55508 IS    [ag]     TCCACCGGCATTCTGGACAAAGCCTGCCTACCCTGTATGACCTAC
55511 I           A  GTCTACTGCATCTTCTGGAGAGTTTGCCATATTCATAGTGAGAAAT
55511 P     A     A  CGCGCCGAGGATAAGACTTCCCAAAGAAGTTAY
55511 P     G     A  ATGACGTGGCAGACGTAAGACTTCCCAAAGAAGTTY

55511 T     A     A  CAAGTAACTTCTTTGGGAAGTCTTATTTTCTCACTATGAATATGGCAAACTCTCCAGAAGATGCAGTAGACAG

55511 T     G     A  CAAGTAACTTCTTTGGGAAGTCTTACTTTCTCACTATGAATATGGCAAACTCTCCAGAAGATGCAGTAGACAG
                   TCTGCTGTTGCTTCTGTCTACTGCATCTTCTGGAGAGTTTGCCATATTCATAGTGAGAAA[ag]TAAGACTTCCCAAAGAA
55511 IS    [ag]     GTTACTTGAAGAACCAAGGGTGGCCAGGATTGGCATCTCTTTT
55512 I           S  AAAAATGTGAAAGTTTCTCTTAATACATATTTTAGTGATGTCTATGTCTTTATAAATTAGT
55512 P     C     S  ATGACGTGGCAGACGAAACAGAGAGAAAGGGTAACY
55512 P     G     S  CGCGCCGAGGCAAACAGAGAGAAAGGGTAAY
                   CATTGTTACCCTTTCTCTCTGTTTCCTAATTTATAAAGACATAGACATCACTAAAATATGTATTAAGAGAAACTTTCACAT
55512 T     C     S  TTTT
                   CATTGTTACCCTTTCTCTCTGTTTGCTAATTTATAAAGACATAGACATCACTAAAATATGTATTAAGAGAAACTTTCACAT
55512 T     G     S  TTTT

55512 IS    [cg]     cctaaaatatgtagaaagctttatactcaaccatgttaccctticictctgtt[cg]ctaatttataaagacatagacatcactaaaatatgtattaagagaaacttticacattttt
55517 I           A  CCTTTTGAGGGCTACATCCCACTTAATATCTAAGTATTTTTCTCTTCCCA
55517 P     C     A  ATGACGTGGCAGACCTCCCCACCAAGAACCY
55517 P     T     A  CGCGCCGAGGTTCCCCACCAAGAACCY

55517 T     C     A  AACTGGTTCTTGGTGGGGAGGGGAAGAGAAAAATACTTAGATATTAAGTGGGATGTAGCCCTCAAAAGGGC

55517 T     T     A  AACTGGTTCTTGGTGGGGAAGGGAAGAGAAAAATACTTAGATATTAAGTGGGATGTAGCCCTCAAAAGGGC

55517 IS    [ct]     tgtactgtggccctttgagggctacatcccacttaatatctaagtatttttctctccc[ct]tcccccaccaagaaccagtttgcccctcttggaagtgatctttgcccgcattgagaatgcatg
55519 I           S  GGAGGGTACACGCTAAGGCAACTACTAGGAAGCT
55519 P     C     S  ATGACGTGGCAGACGCGCTAACAACGACTTY
55519 P     T     S  CGCGCCGAGGACGCTAACAACGACTTTCY
55519 T     C     S  GAGGGAAAGTCGTTGTTAGCGCGCTTCCTAGTAGTTGCCTTAGCGTGTACCCTCCTT
55519 T     T     S  GAGGGAAAGTCGTTGTTAGCGTGCTTCCTAGTAGTTGCCTTAGCGTGTACCCTCCTT

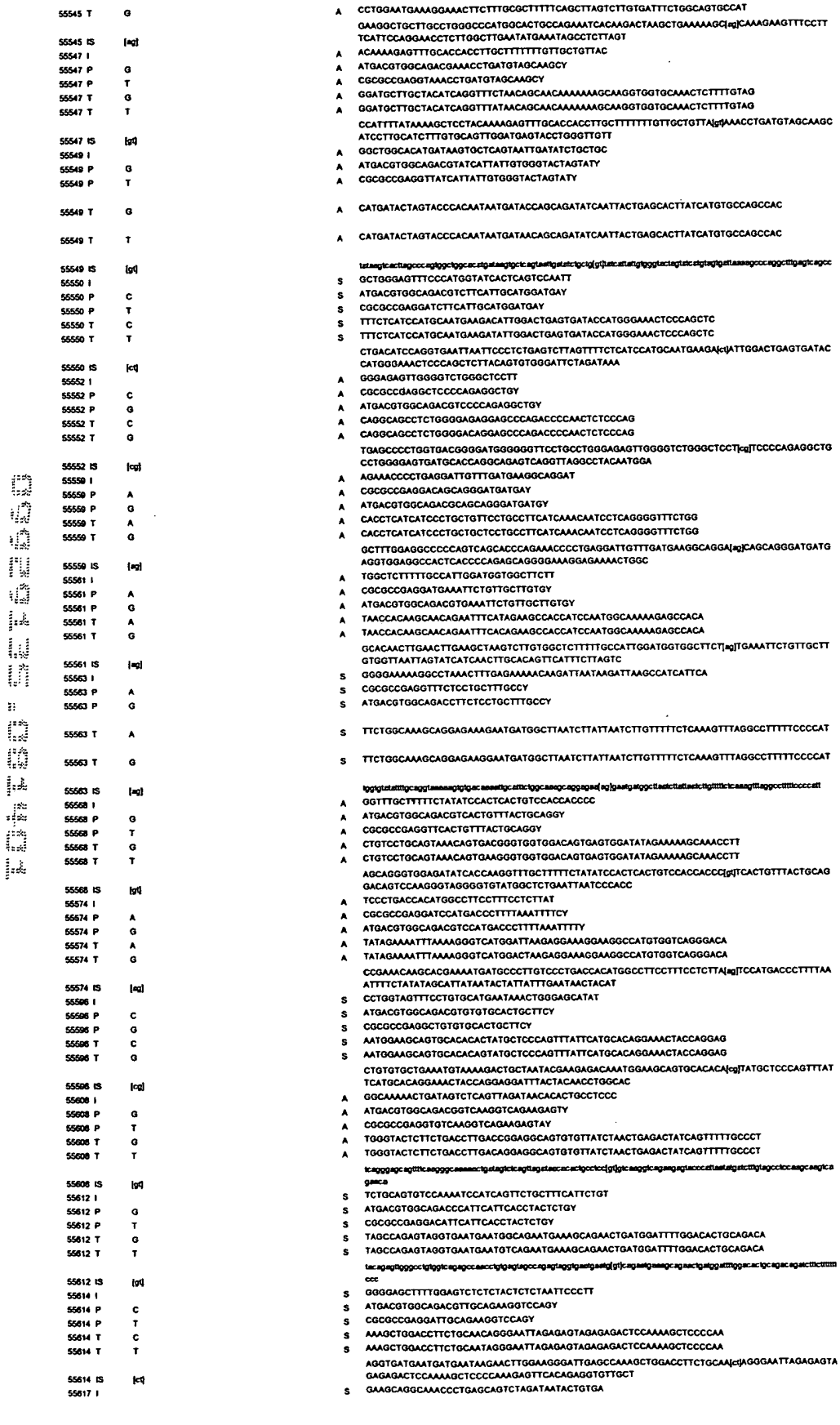
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55520 I           A  GCCCCTCTAACATTCTCCTTACTCGATCCCCATTC
55520 P     G     A  ATGACGTGGCAGACGGTGAGACCATGCCTY
55520 P     T     A  CGCGCCGAGGTGTGAGACCATGCCTTY
55520 T     G     A  AGAAAAGGCATGGTCTCACCAATGGGGATCGAGTAAGGAGAATGTTAGAGGGGCCA
55520 T     T     A  AGAAAAGGCATGGTCTCACAAATGGGGATCGAGTAAGGAGAATGTTAGAGGGGCCA
                   ATCCCTGACCTCTTCAGTGTGGGCTGGCCCCTCTAACATTCTCCTTACTCGATCCCCATT[gt]GTGAGACCATGCCTTT
55520 IS    [gt]     TCTTACAGTGTTTGCTACAGTACACTTGACATTCAAAATTTTGG
55522 I           S  CAGCATCCTGACACACATCACCTCTCCCCC
55522 P     A     S  CGCGCCGAGGTCTCCCTGCTCTGCY
55522 P     T     S  ATGACGTGGCAGACACTCCCTGCTCTGCY
55522 T     A     S  AGTGGCAGAGCAGGGAGAGGGGAGAGGTGATGTGTGTCAGGATGCTGCA
55522 T     T     S  AGTGGCAGAGCAGGGAGTGGGGAGAGGTGATGTGTGTCAGGATGCTGCA
                   ATCAGTTGGTCTACTGTGCCAGAGCCCTCAAGTGGAAAAGTACAGTGGCAGAGCAGGGAG[at]GGGGAGAGGTGATG
55522 IS    [at]     TGTGTCAGGATGCTGCATACCTGGAAGAGAATCCTTCTACCTGCTG
55532 I           A  GAACTGGAAAGGTGTGATGGTGTGTTACGTGAAAACACT
55532 P     A     A  CGCGCCGAGGATCAGTGCAAACTGCAAY
55532 P     G     A  ATGACGTGGCAGACGTCAGTGCAAACTGCAY
55532 T     A     A  TGTTTTGCAGTTTGCACTGATGTGTTTTCACGTAACACACCATCACACCTTTCCAGTTCCT
55532 T     G     A  TGTTTTGCAGTTTGCACTGACGTGTTTTCACGTAACACACCATCACACCTTTCCAGTTCCT
                   gacagaaatgtttggttacaggaactggaaaggtgtgatggtgtgttacgtgaaaacac[ag]tcagtgcaaactgcaaaacaagataaaaaggaatggggcaaaagtttaaagaaa
55532 IS    [ag]     ecatgaa
55534 I           A  CAAGCCAGGCCATAAGTGGGGCTACTTCTT
55534 P     A     A  CGCGCCGAGGATGGGTCTGTTGCAAGAY
55534 P     G     A  ATGACGTGGCAGACGTGGGTCTGTTGCAAGY
55534 T     A     A  GCCTTCTTGCAACAGACCCATAGAAGTAGCCCCACTTATGGCCTGGCTTGGC
55534 T     G     A  GCCTTCTTGCAACAGACCCACAGAAGTAGCCCCACTTATGGCCTGGCTTGGC
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55534 IS    [ag]     cctggat
55540 I           A  CACACTCATGCGTTTTATTGGGGAAAACACGCAAACT
55540 P     A     A  CGCGCCGAGGATGTTCTACTGTGTGCATTTY
55540 P     G     A  ATGACGTGGCAGACGTGTTCTACTGTGTGCATTY
55540 T     A     A  TACAAAATGCACACAGTAGAACATGTTTGCGTGTTTTCCCCAATAAAACGCATGAGTGTGTG
55540 T     G     A  TACAAAATGCACACAGTAGAACACGTTTGCGTGTTTTCCCCAATAAAACGCATGAGTGTGTG
                   GAGCTCAGGCATTTGCACGGGGCACACACTCATGCGTTTTATTGGGGAAAACACGCAAAC[ag]TGTTCTACTGTGTGC
55540 IS    [ag]     ATTTTGTAAGGAACCCTATGCTTTTTGTGTTCCTGCTACAATTTC
55542 I           A  ACGGTGTTTGCCATCATGGGACTTATAGTCTATAAAATGAAATGACATCTAC
55542 P     G     A  ATGACGTGGCAGACGTCTCACCTGGCAGAAY
55542 P     T     A  CGCGCCGAGGTTCTCACCTGGCAGAAY

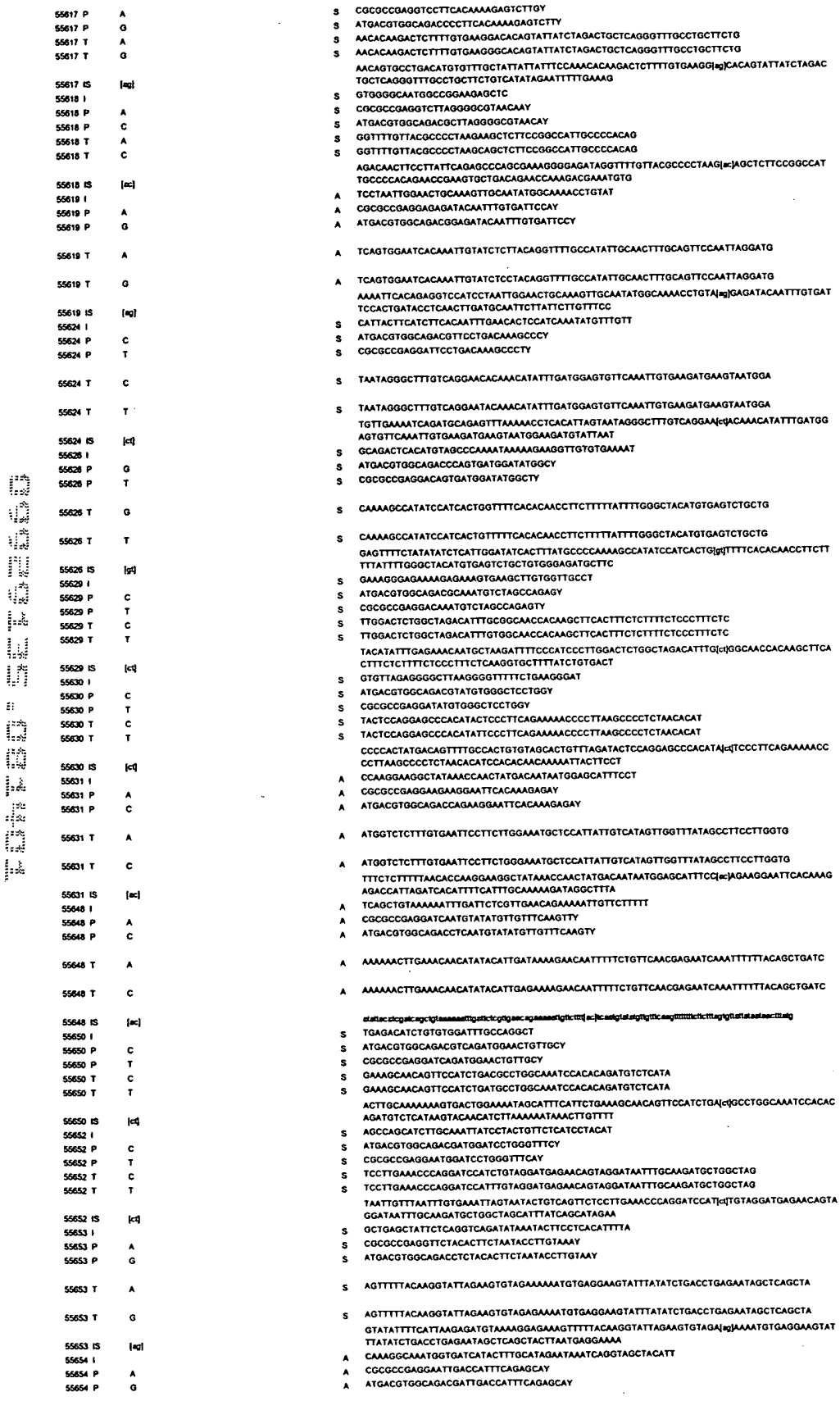
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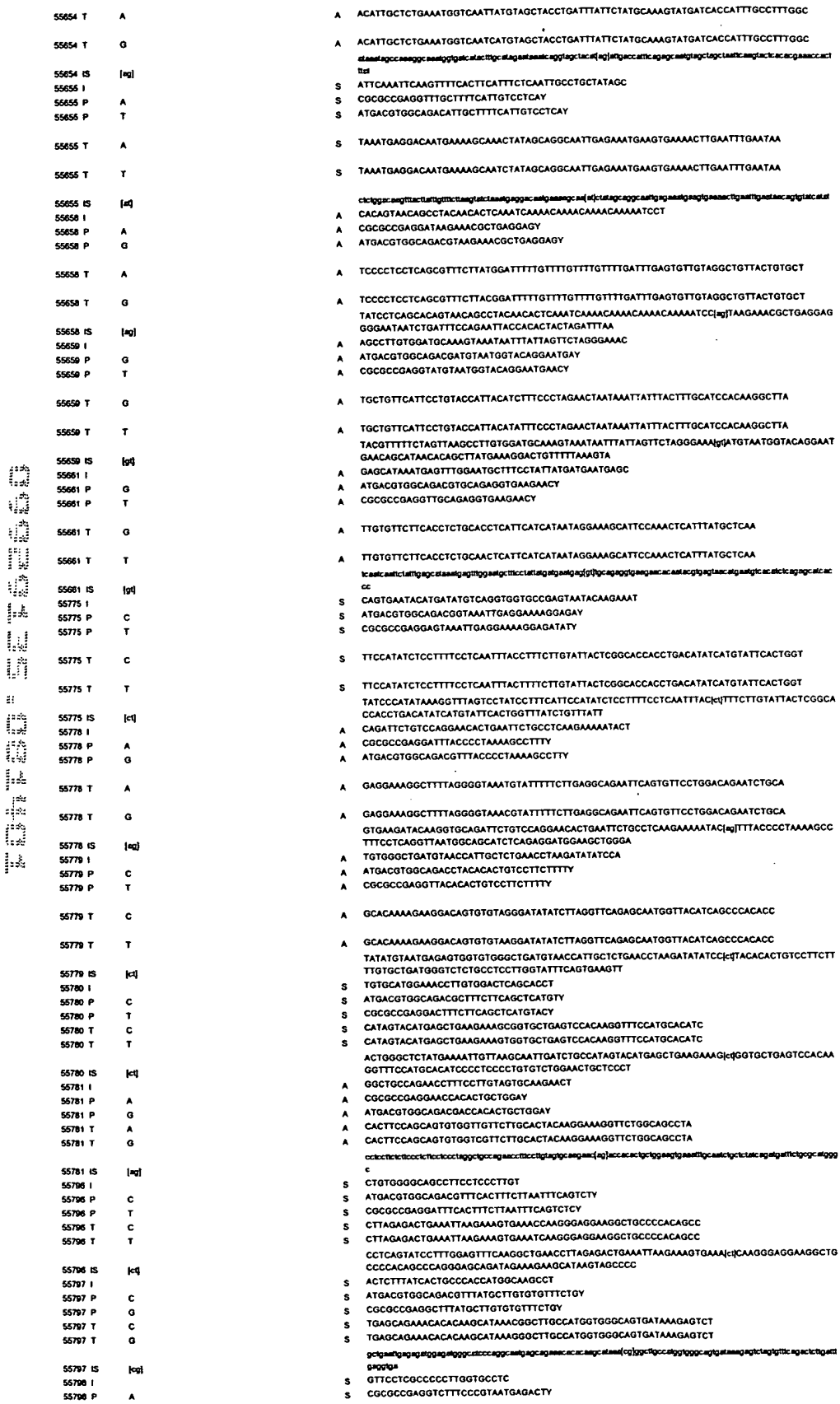
55542 T     T     A  TTTTTTCTGCCAGGTGAGAATAGATGTCATTTCATTTTATAGACTATAAGTCCCATGATGGCAAACACCGTAT
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55542 IS    [gt]     AAAAAATAATTAAACTTGGAAAGAAGGCAAAAAGGTGAATAGA
55543 I           A  TCTTGGTTTTTGTGTCCTAAGAATCTCTGCCTATCCT
55543 P     C     A  CGCGCCGAGGCAAAGTCATGACGATTTTTCTCY
55543 P     G     A  ATGACGTGGCAGACGAAAGTCATGACGATTTTTCTCY
55543 T     C     A  TTAGGAGAAAAATCGTCATGACTTTGGGATAGGCAGAGATTCTTAGGACACAAAAACCAAGAAA
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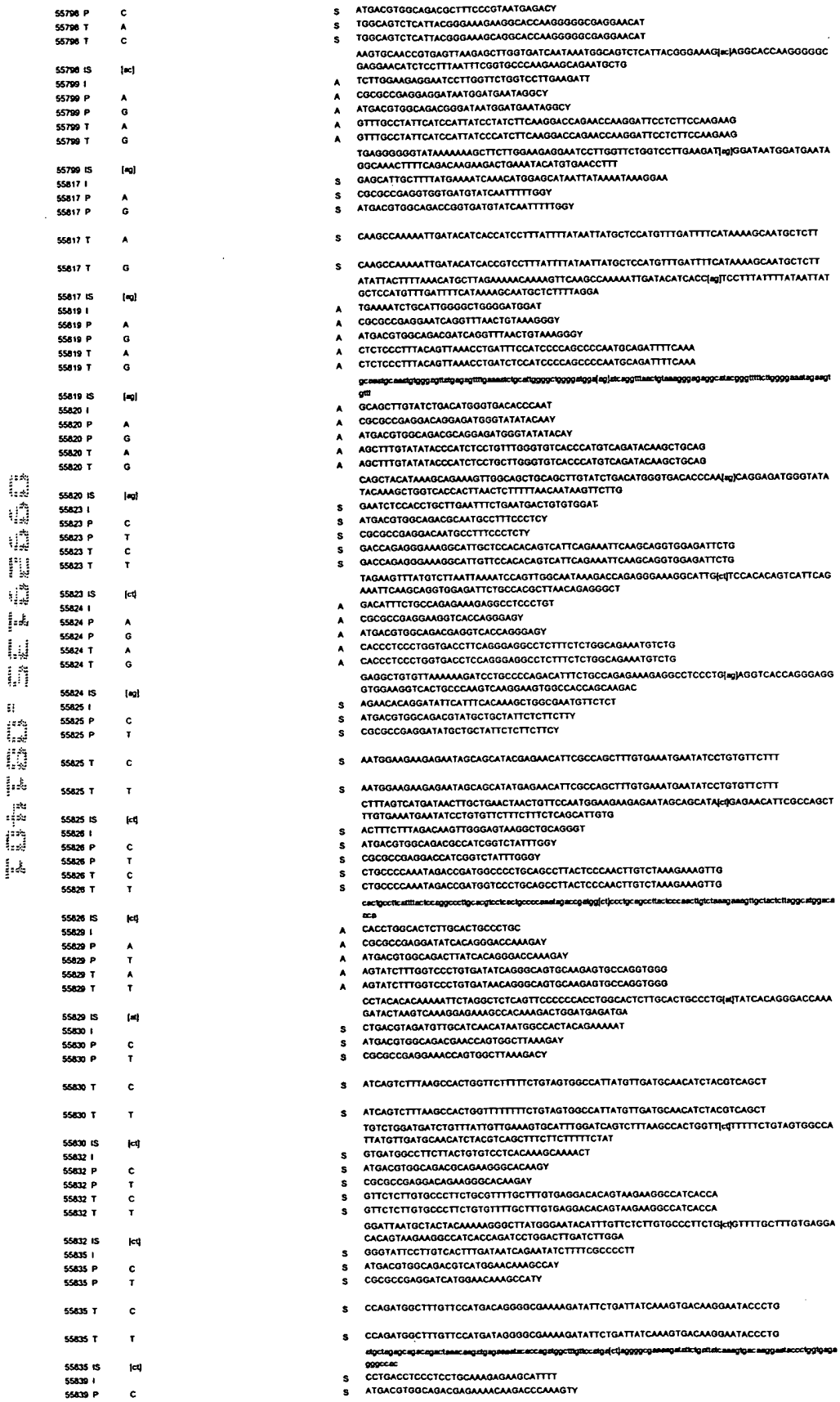
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55545 I           A  GGCACTGCCAGAAATCACAAGACTAAGCTGAAAAAGCT
55545 P     A     A  CGCGCCGAGGACAAAGAAGTTTCCTTTCATTCY
55545 P     G     A  ATGACGTGGCAGACGCAAAGAAGTTTCCTTTCATTY
55545 T     A     A  CCTGGAATGAAAGGAAACTTCTTTGTGCTTTTTCAGCTTAGTCTTGTGATTTCTGGCAGTGCCAT
```

FIGURE 129D








55798 P C S ATGACGTGGCAGACGCTTTCCCGTAATGAGACY
55798 T A S TGGCAGTCTCATTACGGGAAAGAAGGCACCAAGGGGGCGAGGAACAT
55798 T C S TGGCAGTCTCATTACGGGAAAGCAGGCACCAAGGGGGCGAGGAACAT
AAGTGCAACCGTGAGTTAAGAGCTTGGTGATCAATAAATGGCAGTCTCATTACGGGAAAG[ac]AGGCACCAAGGGGGC
55798 tS [ac] GAGGAACATCTCCTTTAATTTCGGTGCCCAAGAAGCAGAATGCTG
55799 I A TCTTGGAAGAGGAATCCTTGGTTCTGGTCCTTGAAGATT
55799 P A A CGCGCCGAGGAGGATAATGGATGAATAGGCY
55799 P G A ATGACGTGGCAGACGGGATAATGGATGAATAGGCY
55799 T A A GTTTGCCTATTCATCCATTATCCTATCTTCAAGGACCAGAACCAAGGATTCCTCTTCCAAGAAG
55799 T G A GTTTGCCTATTCATCCATTATCCCATCTTCAAGGACCAGAACCAAGGATTCCTCTTCCAAGAAG
TGAGGGGGGTATAAAAAAAGCTTCTTGGAAGAGGAATCCTTGGTTCTGGTCCTTGAAGAT[ag]GGATAATGGATGAATA
55799 tS [ag] GGCAAACTTTTCAGACAAGAAGACTGAAATACATGTGAACCTTT
55817 I S GAGCATTGCTTTTATGAAAATCAAACATGGAGCATAATTATAAAATAAAGGAA
55817 P A S CGCGCCGAGGTGGTGATGTATCAATTTTTGGY
55817 P G S ATGACGTGGCAGACCGGTGATGTATCAATTTTTGGY
55817 T A S CAAGCCAAAAATTGATACATCACCATCCTTTATTTTATAATTATGCTCCATGTTTGATTTTCATAAAAGCAATGCTCTT
55817 T G S CAAGCCAAAAATTGATACATCACCGTCCTTTATTTTATAATTATGCTCCATGTTTGATTTTCATAAAAGCAATGCTCTT
ATATTACTTTTAAACATGCTTAGAAAAACAAAAGTTCAAGCCAAAAATTGATACATCACC[ag]TCCTTTATTTTATAATTAT
55817 tS [ag] GCTCCATGTTTGATTTTCATAAAAGCAATGCTCTTTTAGGA
55819 I A TGAAAATCTGCATTGGGGCTGGGGATGGAT
55819 P A A CGCGCCGAGGAATCAGGTTTAACTGTAAAGGGY
55819 P G A ATGACGTGGCAGACGATCAGGTTTAACTGTAAAGGGY
55819 T A A CTCTCCCTTTACAGTTAAACCTGATTTCCATCCCCAGCCCCAATGCAGATTTTCAAA
55819 T G A CTCTCCCTTTACAGTTAAACCTGATCTCCATCCCCAGCCCCAATGCAGATTTTCAAA
gcaaatgcaaatgtgggagttatgagagttttgaaaatctgcattgggtgctgggggatggg[ag]atcaggtttaactgtaaagggagaggccatacgggttttctgggggaaatagaagt
55819 tS [ag] gttt
55820 I A GCAGCTTGTATCTGACATGGGTGACACCCAAT
55820 P A A CGCGCCGAGGACAGGAGATGGGTATATACAAY
55820 P G A ATGACGTGGCAGACGCAGGAGATGGGTATATACAY
55820 T A A AGCTTTGTATATACCCATCTCCTGTTTGGGTGTCACCCATGTCAGATACAAGCTGCAG
55820 T G A AGCTTTGTATATACCCATCTCCTGCTTGGGTGTCACCCATGTCAGATACAAGCTGCAG
CAGCTACATAAAGCAGAAAGTTGGCAGCTGCAGCTTGTATCTGACATGGGTGACACCCAA[ag]CAGGAGATGGGTATA
55820 tS [ag] TACAAAGCTGGTCACCACTTAACTCTTTTTAACAATAAGTTCTTG
55823 I S GAATCTCCACCTGCTTGAATTTCTGAATGACTGTGTGGAT
55823 P C S ATGACGTGGCAGACGCAATGCCTTTCCCTCY
55823 P T S CGCGCCGAGGACAATGCCTTTCCCTCTY
55823 T C S GACCAGAGGGAAAGGCATTGCTCCACACAGTCATTCAGAAATTCAAGCAGGTGGAGATTCTG
55823 T T S GACCAGAGGGAAAGGCATTGTTCCACACAGTCATTCAGAAATTCAAGCAGGTGGAGATTCTG
TAGAAGTTTATGTCTTAATTAAAATCCAGTTGGCAATAAAGACCAGAGGGAAAGGCATTG[ct]TCCACACAGTCATTCAG
55823 tS [ct] AAATTCAAGCAGGTGGAGATTCTGCCACGCTTAACAGAGGGCT
55824 I A GACATTTCTGCCAGAGAAAGAGGCCTCCCTGT
55824 P A A CGCGCCGAGGAAGGTCACCAGGGAGY
55824 P G A ATGACGTGGCAGACGAGGTCACCAGGGAGY
55824 T A A CACCCTCCCTGGTGACCTTCAGGGAGGCCTCTTTCTCTGGCAGAAATGTCTG
55824 T G A CACCCTCCCTGGTGACCTCCAGGGAGGCCTCTTTCTCTGGCAGAAATGTCTG
GAGGCTGTGTTAAAAAAGATCCTGCCCCAGACATTTCTGCCAGAGAAAGAGGCCTCCCTG[ag]AGGTCACCAGGGAGG
55824 tS [ag] GTGGAAGGTCACTGCCCAAGTCAAGGAAGTGGCCACCAGCAAGAC
55825 I S AGAACACAGGATATTCATTTCACAAAGCTGGCGAATGTTCTCT
55825 P C S ATGACGTGGCAGACGTATGCTGCTATTCTCTTCTTY
55825 P T S CGCGCCGAGGATATGCTGCTATTCTCTTCTTCY
55825 T C S AATGGAAGAAGAGAATAGCAGCATACGAGAACATTCGCCAGCTTTGTGAAATGAATATCCTGTGTTCTTT
55825 T T S AATGGAAGAAGAGAATAGCAGCATATGAGAACATTCGCCAGCTTTGTGAAATGAATATCCTGTGTTCTTT
CTTTAGTCATGATAACTTGCTGAACTAACTGTTCCAATGGAAGAAGAGAATAGCAGCATA[ct]GAGAACATTCGCCAGCT
55825 tS [ct] TTGTGAAATGAATATCCTGTGTTCTTTCTTTCTCAGCATTGTG
55826 I S ACTTTCTTTAGACAAGTTGGGAGTAAGGCTGCAGGGT
55826 P C S ATGACGTGGCAGACGCCATCGGTCTATTTGGGY
55826 P T S CGCGCCGAGGACCATCGGTCTATTTGGGY
55826 T C S CTGCCCCAAATAGACCGATGGCCCCTGCAGCCTTACTCCCAACTTGTCTAAAGAAAGTTG
55826 T T S CTGCCCCAAATAGACCGATGGTCCCTGCAGCCTTACTCCCAACTTGTCTAAAGAAAGTTG
cactgcctcatttacticcaggccctgcacgtcctcactgcccccaaatagaccgatgg[ct]ccctgcagccttactcccaacttgtctaaagaaagttgctacticttaggcatggaca
55826 tS [ct] cca
55829 I A CACCTGGCACTCTTGCACTGCCCTGC
55829 P A A CGCGCCGAGGATATCACAGGGACCAAAGAY
55829 P T A ATGACGTGGCAGACTTATCACAGGGACCAAAGAY
55829 T A A AGTATCTTTGGTCCCTGTGATATCAGGGCAGTGCAAGAGTGCCAGGTGGG
55829 T T A AGTATCTTTGGTCCCTGTGATAACAGGGCAGTGCAAGAGTGCCAGGTGGG
CCTACACACAAAAATTCTAGGCTCTCAGTTCCCCCCACCTGGCACTCTTGCACTGCCCTG[ag]TATCACAGGGACCAAA
55829 tS [ag] GATACTAAGTCAAAGGAGAAAGCCACAAAGACTGGATGAGATGA
55830 I S CTGACGTAGATGTTGCATCAACATAATGGCCACTACAGAAAAAT
55830 P C S ATGACGTGGCAGACGAACCAGTGGCTTAAAGAY
55830 P T S CGCGCCGAGGAAACCAGTGGCTTAAAGACY
55830 T C S ATCAGTCTTTAAGCCACTGGTTCTTTTTCTGTAGTGGCCATTATGTTGATGCAACATCTACGTCAGCT
55830 T T S ATCAGTCTTTAAGCCACTGGTTTTTTTTCTGTAGTGGCCATTATGTTGATGCAACATCTACGTCAGCT
TGTCTGGATGATCTGTTTATTGTTGAAAGTGCATTTGGATCAGTCTTTAAGCCACTGGTT[ct]TTTTTCTGTAGTGGCCA
55830 tS [ct] TTATGTTGATGCAACATCTACGTCAGCTTTCTTCTTTTTCTAT
55832 I S GTGATGGCCTTCTTACTGTGTCCTCACAAAGCAAAACT
55832 P C S ATGACGTGGCAGACGCAGAAGGGCACAAGY
55832 P T S CGCGCCGAGGACAGAAGGGCACAAGAY
55832 T C S GTTCTCTTGTGCCCTTCTGCGTTTTGCTTTGTGAGGACACAGTAAGAAGGCCATCACCA
55832 T T S GTTCTCTTGTGCCCTTCTGTGTTTTGCTTTGTGAGGACACAGTAAGAAGGCCATCACCA
GGATTAATGCTACTACAAAAAGGGCTTATGGGAATACATTTGTTCTCTTGTGCCCTTCTG[ct]GTTTTGCTTTGTGAGGA
55832 tS [ct] CACAGTAAGAAGGCCATCACCAGATCCTGGACTTGATCTTGGA
55835 I S GGGTATTCCTTGTCACTTTGATAATCAGAATATCTTTTCGCCCCTT
55835 P C S ATGACGTGGCAGACGTCATGGAACAAAGCCAY
55835 P T S CGCGCCGAGGATCATGGAACAAAGCCATY
55835 T C S CCAGATGGCTTTGTTCCATGACAGGGGCGAAAAGATATTCTGATTATCAAAGTGACAAGGAATACCCTG
55835 T T S CCAGATGGCTTTGTTCCATGATAGGGGCGAAAAGATATTCTGATTATCAAAGTGACAAGGAATACCCTG
atgctagagcagacagactaaacaagctgagaaaatacaccagatggcttgttccatgat[ct]agggggcgaaaagatattctgattatcaaagtgacaaggaatacccctggtgaga
55835 tS [ct] gggccac
55839 I S CCTGACCTCCCTCCTGCAAAGAGAAGCATTTT
55839 P C S ATGACGTGGCAGACGAGAAAACAAGACCCAAAGTY


55839 P G S CGCGCCGAGGCAGAAAACAAGACCCAAAGTY
55839 T C S GACTACTTTGGGTCTTGTTTTCTCAAATGCTTCTCTTTGCAGGAGGGAGGTCAGGCC
55839 T G S GACTACTTTGGGTCTTGTTTTCTGAAATGCTTCTCTTTGCAGGAGGGAGGTCAGGCC
GCAGTTGCCACATATATCCATTGAGCACTTAAAATGCGACTACTTTGGGTCTTGTTTTCT[cg]AAATGCTTCTCTTTGCA
55839 IS [cg] GGAGGGAGGTCAGGCCACTGTGTTCCCTTACCTCAGGGACAGA
55840 I S GGAAGGATGCCCTGTGAACATCAGGACCAT
55840 P C S ATGACGTGGCAGACGTGCCTGCAAACCTAGY
55840 P T S CGCGCCGAGGATGCCTGCAAACCTAGY
55840 T C S TCTCCTAGGTTTGCAGGCACTGGTCCTGATGTTCACAGGGCATCCTTCCTG
55840 T T S TCTCCTAGGTTTGCAGGCATTGGTCCTGATGTTCACAGGGCATCCTTCCTG
TCGATCTGAGGGCTGCGAGGGAAGGATCTGTTGTAGACCTCTCTCCTAGGTTTGCAGGCA[cg]TGGTCCTGATGTTCA
55840 IS [ct] CAGGGCATCCTTCCTGTGCCTTCACATCATCTTCTCTCTGAATGT
55843 I A CATGATGGAAACCTCCATGACCCAGGAGTCCT
55843 P A A CGCGCCGAGGAAGGCAGGGCTACTTACY
55843 P G A ATGACGTGGCAGACGAGGCAGGGCTACTTAY
55843 T A A AGATGTAAGTAGCCCTGCCTTGGACTCCTGGGTCATGGAGGTTTCCATCATGGT
55843 T G A AGATGTAAGTAGCCCTGCCTCGGACTCCTGGGTCATGGAGGTTTCCATCATGGT
GACTGTGGCAAGCCAGGTGGCGAGGGGACCATGATGGAAACCTCCATGACCCAGGAGTCC[ag]AGGCAGGGCTACTT
55843 IS [ag] ACATCTCTGCCATTGGCTACCTCCAGGGCTGCAGTGAACTTCTCTC
55844 I S CCAGAGGAAAGAAGGTAAGAATGTATACCGATGTAGAGAAATTTGCAGT
55844 P C S ATGACGTGGCAGACGTCAAGTTGGGAGGTTGY
55844 P G S CGCGCCGAGGCTCAAGTTGGGAGGTTGY
55844 T C S GTTTCAACCTCCCAACTTGACCTGCAAATTTCTCTACATCGGTATACATTCTTACCTTCTTTCCTCTGGCA
55844 T G S GTTTCAACCTCCCAACTTGAGCTGCAAATTTCTCTACATCGGTATACATTCTTACCTTCTTTCCTCTGGCA
CTGATCACCTAAAAAAAAGTAGAGGTCAACTGACATTACTGTTTCAACCTCCCAACTTGA[cg]CTGCAAATTTCTCTACA
55844 IS [cg] TCGGTATACATTCTTACCTTCTTTCCTCTGGCACTGTGGAAAA
55848 I A CCAGGGTGAATCCTGACTCTAGCATCCTTTAGGTTT
55848 P A A CGCGCCGAGGATAATCTATTCTGGAAGCATAAGTY
55848 P G A ATGACGTGGCAGACGTAATCTATTCTGGAAGCATAAGTY
55848 T A A AGACACTTATGCTTCCAGAATAGATTATAACCTAAAGGATGCTAGAGTCAGGATTCACCCTGGCT
55848 T G A AGACACTTATGCTTCCAGAATAGATTACAACCTAAAGGATGCTAGAGTCAGGATTCACCCTGGCT
55848 IS [ag]
55891 I A CCACCCAGATTTCAGCAACTTCGCTGCTGAACT
55891 P A A CGCGCCGAGGACCTCCAAACATAAACCTCY
55891 P G A ATGACGTGGCAGACGCCTCCAAACATAAACCTY
55891 T A A TTGGGAGGTTTATGTTTGGAGGTGTTCAGCAGCGAAGTTGCTGAAATCTGGGTGGTT
55891 T G A TTGGGAGGTTTATGTTTGGAGGCGTTCAGCAGCGAAGTTGCTGAAATCTGGGTGGTT
CCCCTGCCCATTCCTCTGCCCATACAAACCACCCAGATTTCAGCAACTTCGCTGCTGAAC[ag]CCTCCAAACATAAACC
55891 IS [ag] TCCCAAATAACCCAGAGCTGCACCAAGCAGTCCTAGACTTGAGC
55892 I A CTGCATGGGAGGGATTTAATTCTGCTTTGTCTTTGGACT
55892 P A A CGCGCCGAGGATTTTCACCTTTAACCATAAGCY
55892 P G A ATGACGTGGCAGACGTTTTCACCTTTAACCATAAGCY
55892 T A A ATCTGCTTATGGTTAAAGGTGAAAATGTCCAAAGACAAAGCAGAATTAAATCCCTCCCATGCAGAA
55892 T G A ATCTGCTTATGGTTAAAGGTGAAAACGTCCAAAGACAAAGCAGAATTAAATCCCTCCCATGCAGAA
55892 IS [ag]
55894 I A GCTTTTGTCTTTACAGTGACCGAAGGAAGAGACCAAGATGAATT
55894 P A A CGCGCCGAGGACAGAGGTGAGTTCTTTACAY
55894 P G A ATGACGTGGCAGACGCAGAGGTGAGTTCTTTACY
55894 T A A TCTTTGTAAAGAACTCACCTCTGTATTCATCTTGGTCTCTTCCTTCGGTCACTGTAAAGACAAAAGCAG
55894 T G A TCTTTGTAAAGAACTCACCTCTGCATTCATCTTGGTCTCTTCCTTCGGTCACTGTAAAGACAAAAGCAG
CAGGGACCTGAACCTCTGCTTTTGTCTTTACAGTGACCGAAGGAAGAGACCAAGATGAAT[ag]CAGAGGTGAGTTCTTT
55894 IS [ag] ACAAAGACCAGTTTAAGGGATGCTTTTCTTATTGTGTCCCTCAT
55910 I A CTGCCCAAAACCCTTGTCCTGGGTGTGT
55910 P A A CGCGCCGAGGAACCTCACAGTAACATGGY
55910 P C A ATGACGTGGCAGACCACCTCACAGTAACATGGY
55910 T A A AGCCCCATGTTACTGTGAGGTTCACACCCAGGACAAGGGTTTTGGGCAGCC
55910 T C A AGCCCCATGTTACTGTGAGGTGCACACCCAGGACAAGGGTTTTGGGCAGCC
55910 IS [ac]
55933 I S GCGTTACGCTTCTCTGCCTAGCTGCCCC
55933 P A S CGCGCCGAGGTGTCAATGGGAACAGCY
55933 P C S ATGACGTGGCAGACGGTCAATGGGAACAGCY
55933 T A S GGAGGCTGTTCCCATTGACAGGGCAGCTAGGCAGAGAAGCGTAACGCAG
55933 T C S GGAGGCTGTTCCCATTGACCGGGCAGCTAGGCAGAGAAGCGTAACGCAG
GACCAAGCCACTCCAATAATTATCATGTTACCAAGACAATAGGAGGCTGTTCCCATTGAC[ac]GGGCAGCTAGGCAGA
55933 IS [ac] GAAGCGTAACGCAGGCAACTCTTCATTTTGGTTTTCAGTAGCCAC
55935 I S TCGTCAGCCCTTGCTTTGCACTCTCCAA
55935 P A S CGCGCCGAGGTCCCTCTTACCTCATGCY
55935 P G S ATGACGTGGCAGACCCCCTCTTACCTCATGCY
55935 T A S CTCTGCATGAGGTAAGAGGGATGGAGAGTGCAAAGCAAGGGCTGACGACT
55935 T G S CTCTGCATGAGGTAAGAGGGGTGGAGAGTGCAAAGCAAGGGCTGACGACT
ATGTAGTGGAACTTTGTCCTCCAGCGGACCTCTTTCCTGCCTCTGCATGAGGTAAGAGGG[ag]TGGAGAGTGCAAAGC
55935 IS [ag] AAGGGCTGACGACTTTAGCTTGGGAAATTTAGATACCTGTAAAAT
55942 I A GCAGCTGCTCTGCTCTAGACCCTGCTCT
55942 P A A CGCGCCGAGGATCTCCACATCCTAAATGTTCY
55942 P G A ATGACGTGGCAGACGTCTCCACATCCTAAATGTTY
55942 T A A AAGTGAACATTTAGGATGTGGAGATGAGCAGGGTCTAGAGCAGAGCAGCTGCCA
55942 T G A AAGTGAACATTTAGGATGTGGAGACGAGCAGGGTCTAGAGCAGAGCAGCTGCCA
55942 IS [ag]
55952 I A TCTCTTTAGGGCTAAAGAAATTGGTTCTACATTGCTTTTAGACT
55952 P A A CGCGCCGAGGAATACTGACTCGTTAAATGCAY
55952 P G A ATGACGTGGCAGACGATACTGACTCGTTAAATGCAY
55952 T A A AAATTGCATTTAACGAGTCAGTATTGTCTAAAAGCAATGTAGAACCAATTTCTTTAGCCCTAAAGAGAAA
55952 T G A AAATTGCATTTAACGAGTCAGTATCGTCTAAAAGCAATGTAGAACCAATTTCTTTAGCCCTAAAGAGAAA
TAAAGTTTTATTTTTTTTCTCTTTAGGGCTAAAGAAATTGGTTCTACATTGCTTTTAGAC[ag]ATACTGACTCGTTAAATG
55952 IS [ag] CAATTTCAACGAATGCTAAATTGCTTAATTAGATAATAATAT
55953 I S AGGAAGGGACCCCTAGAATGATGGGGA
55953 P A S CGCGCCGAGGTCTGAATTTTGCCCAAAAGY
55953 P G S ATGACGTGGCAGACCCTGAATTTTGCCCAAAAGY
55953 T A S TCAGCTTTTGGGCAAAATTCAGACCCCATCATTCTAGGGGTCCCTTCCTAA

FIGURE 129D

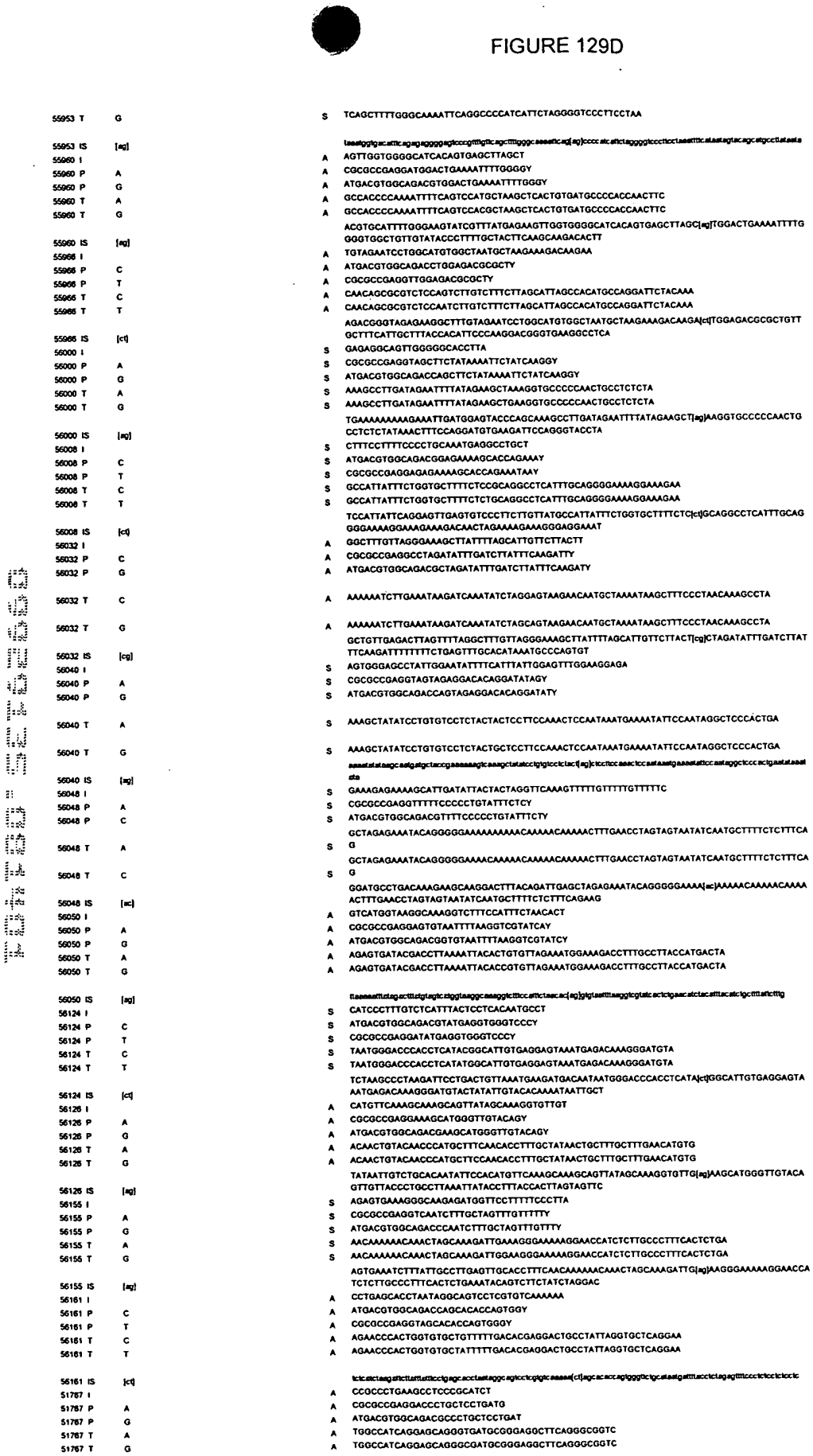

55953 T G S TCAGCTTTTGGGCAAAATTCAGGCCCCATCATTCTAGGGGTCCCTTCCTAA
55953 IS [ag]
55960 I A AGTTGGTGGGGCATCACAGTGAGCTTAGCT
55960 P A A CGCGCCGAGGATGGACTGAAAATTTTGGGGY
55960 P G A ATGACGTGGCAGACGTGGACTGAAAATTTTGGGY
55960 T A A GCCACCCCAAAATTTTCAGTCCATGCTAAGCTCACTGTGATGCCCCACCAACTTC
55960 T G A GCCACCCCAAAATTTTCAGTCCACGCTAAGCTCACTGTGATGCCCCACCAACTTC
55960 IS [ag]
55966 I A TGTAGAATCCTGGCATGTGGCTAATGCTAAGAAAGACAAGAA
55966 P C A ATGACGTGGCAGACCTGGAGACGCGCTY
55966 P T A CGCGCCGAGGTTGGAGACGCGCTY
55966 T C A CAACAGCGCGTCTCCAGTCTTGTCTTTCTTAGCATTAGCCACATGCCAGGATTCTACAAA
55966 T T A CAACAGCGCGTCTCCAATCTTGTCTTTCTTAGCATTAGCCACATGCCAGGATTCTACAAA
55966 IS [ct]
56000 I S GAGAGGCAGTTGGGGGCACCTTA
56000 P A S CGCGCCGAGGTAGCTTCTATAAAATTCTATCAAGGY
56000 P G S ATGACGTGGCAGACCAGCTTCTATAAAATTCTATCAAGGY
56000 T A S AAAGCCTTGATAGAATTTTATAGAAGCTAAAGGTGCCCCCAACTGCCTCTCTA
56000 T G S AAAGCCTTGATAGAATTTTATAGAAGCTGAAGGTGCCCCCAACTGCCTCTCTA
56000 IS [ag]
56008 I S CTTTCCTTTTCCCCTGCAAATGAGGCCTGCT
56008 P C S ATGACGTGGCAGACGGAGAAAAGCACCAGAAAY
56008 P T S CGCGCCGAGGAGAGAAAAGCACCAGAAATAAY
56008 T C S GCCATTATTTCTGGTGCTTTTCTCCGCAGGCCTCATTTGCAGGGGAAAAGGAAAGAA
56008 T T S GCCATTATTTCTGGTGCTTTTCTCTGCAGGCCTCATTTGCAGGGGAAAAGGAAAGAA
56008 IS [ct]
56032 I A GGCTTTGTTAGGGAAAGCTTATTTTAGCATTGTTCTTACTT
56032 P C A CGCGCCGAGGCCTAGATATTTGATCTTATTTCAAGATTY
56032 P G A ATGACGTGGCAGACGCTAGATATTTGATCTTATTTCAAGATY
56032 T C A AAAAAATCTTGAAATAAGATCAAATATCTAGGAGTAAGAACAATGCTAAAATAAGCTTTCCCTAACAAAGCCTA
56032 T G A AAAAAATCTTGAAATAAGATCAAATATCTAGCAGTAAGAACAATGCTAAAATAAGCTTTCCCTAACAAAGCCTA
56032 IS [cg]
56040 I S AGTGGGAGCCTATTGGAATATTTTCATTTATTGGAGTTTGGAAGGAGA
56040 P A S CGCGCCGAGGTAGTAGAGGACACAGGATATAGY
56040 P G S ATGACGTGGCAGACCAGTAGAGGACACAGGATATY
56040 T A S AAAGCTATATCCTGTGTCCTCTACTACTCCTTCCAAACTCCAATAAATGAAAATATTCCAATAGGCTCCCACTGA
56040 T G S AAAGCTATATCCTGTGTCCTCTACTGCTCCTTCCAAACTCCAATAAATGAAAATATTCCAATAGGCTCCCACTGA
56040 IS [ag]
56048 I S GAAAGAGAAAAGCATTGATATTACTACTAGGTTCAAAGTTTTTGTTTTTGTTTTTC
56048 P A S CGCGCCGAGGTTTTTCCCCCTGTATTTCTCY
56048 P C S ATGACGTGGCAGACGTTTTCCCCCTGTATTTCTY
56048 T A S G GCTAGAGAAATACAGGGGGAAAAAAAAAAACAAAAACAAAAACTTTGAACCTAGTAGTAATATCAATGCTTTTCTCTTTCA
56048 T C S G GCTAGAGAAATACAGGGGGAAAAACAAAAACAAAAACAAAAACTTTGAACCTAGTAGTAATATCAATGCTTTTCTCTTTCA
56048 IS [ac]
56050 I A GTCATGGTAAGGCAAAGGTCTTTCCATTTCTAACACT
56050 P A A CGCGCCGAGGAGTGTAATTTTAAGGTCGTATCAY
56050 P G A ATGACGTGGCAGACGGTGTAATTTTAAGGTCGTATCY
56050 T A A AGAGTGATACGACCTTAAAATTACACTGTGTTAGAAATGGAAAGACCTTTGCCTTACCATGACTA
56050 T G A AGAGTGATACGACCTTAAAATTACACCGTGTTAGAAATGGAAAGACCTTTGCCTTACCATGACTA
56050 IS [ag]
56124 I S CATCCCTTTGTCTCATTTACTCCTCACAATGCCT
56124 P C S ATGACGTGGCAGACGTATGAGGTGGGTCCCY
56124 P T S CGCGCCGAGGATATGAGGTGGGTCCCY
56124 T C S TAATGGGACCCACCTCATACGGCATTGTGAGGAGTAAATGAGACAAAGGGATGTA
56124 T T S TAATGGGACCCACCTCATATGGCATTGTGAGGAGTAAATGAGACAAAGGGATGTA
56124 IS [ct]
56126 I A CATGTTCAAAGCAAAGCAGTTATAGCAAAGGTGTTGT
56126 P A A CGCGCCGAGGAAAGCATGGGTTGTACAGY
56126 P G A ATGACGTGGCAGACGAAGCATGGGTTGTACAGY
56126 T A A ACAACTGTACAACCCATGCTTTCAACACCTTTGCTATAACTGCTTTGCTTTGAACATGTG
56126 T G A ACAACTGTACAACCCATGCTTCCAACACCTTTGCTATAACTGCTTTGCTTTGAACATGTG
56126 IS [ag]
56155 I S AGAGTGAAAGGGCAAGAGATGGTTCCTTTTTCCCTTA
56155 P A S CGCGCCGAGGTCAATCTTTGCTAGTTTGTTTTTY
56155 P G S ATGACGTGGCAGACCCAATCTTTGCTAGTTTGTTTY
56155 T A S AACAAAAAACAAACTAGCAAAGATTGAAAGGGAAAAAGGAACCATCTCTTGCCCTTTCACTCTGA
56155 T G S AACAAAAAACAAACTAGCAAAGATTGGAAGGGAAAAAGGAACCATCTCTTGCCCTTTCACTCTGA
56155 IS [ag]
56161 I A CCTGAGCACCTAATAGGCAGTCCTCGTGTCAAAAAA
56161 P C A ATGACGTGGCAGACCAGCACACCAGTGGY
56161 P T A CGCGCCGAGGTAGCACACCAGTGGGY
56161 T C A AGAACCCACTGGTGTGCTGTTTTTGACACGAGGACTGCCTATTAGGTGCTCAGGAA
56161 T T A AGAACCCACTGGTGTGCTATTTTTGACACGAGGACTGCCTATTAGGTGCTCAGGAA
56161 IS [ct]
51767 I A CCGCCCTGAAGCCTCCCGCATCT
51767 P A A CGCGCCGAGGACCCTGCTCCTGATG
51767 P G A ATGACGTGGCAGACGCCCTGCTCCTGAT
51767 T A A TGGCCATCAGGAGCAGGGTGATGCGGGAGGCTTCAGGGCGGTC
51767 T G A TGGCCATCAGGAGCAGGGCGATGCGGGAGGCTTCAGGGCGGTC

FIGURE 129D

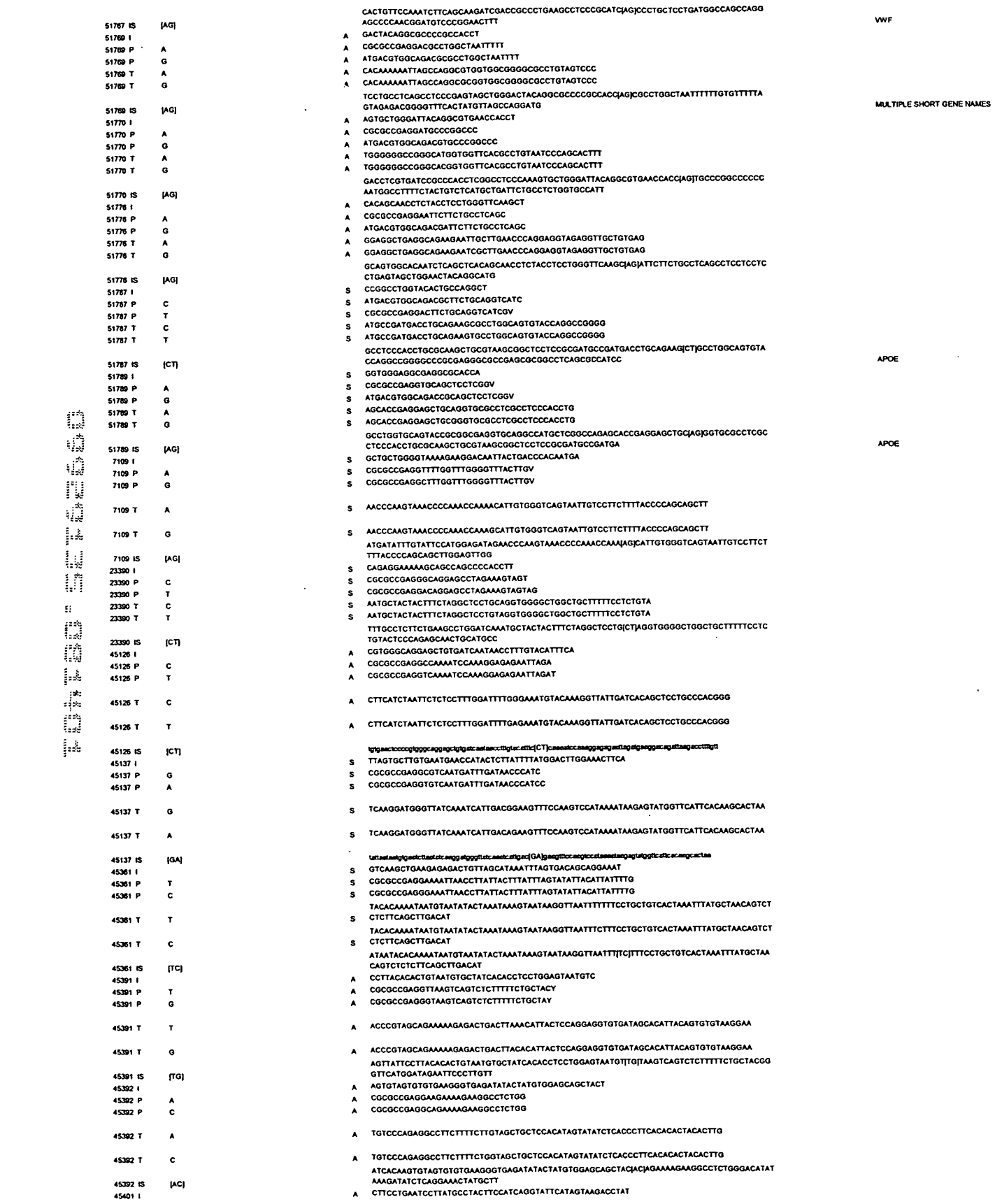


FIGURE 129D



45401 P	C	A	CGCGCCGAGGCGCCCCAAACCTCATC
45401 P	G	A	CGCGCCGAGGGGCCCCAAACCTCATC
45401 T	C	A	TAATGATGAGGTTTGGGGCGTAGGTCTTACTATGAATACCTGATGGAAGTAGGCATAAGGATTCAGGAAG
45401 T	G	A	TAATGATGAGGTTTGGGGCCTAGGTCTTACTATGAATACCTGATGGAAGTAGGCATAAGGATTCAGGAAG
45401 IS	[CG]		CTTCCTGAATCCTTATGCCTACTTCCATCAGGTATTCATAGTAAGACCTA[CG]GCCCCAAACCTCATCATTATTTTGTTA TGTTATTCTCTTCTTGGTTCCTA
45403 I		S	TGCACTTTTTCAGTCTCTAGATGTACTTCACTTGGTCCC
45403 P	A	S	CGCGCCGAGGTTACTACATTTTAAAAGTAATTTTCTTTGTTGC
45403 P	T	S	CGCGCCGAGGATACTACATTTTAAAAGTAATTTTCTTTGTTGC
45403 T	A	S	ATCAGCAACAAAGAAAATTACTTTTAAAATGTAGTAAGGACCAAGTGAAGTACATCTAGAGACTGAAAAAGTGCAGG
45403 T	T	S	ATCAGCAACAAAGAAAATTACTTTTAAAATGTAGTATGGACCAAGTGAAGTACATCTAGAGACTGAAAAAGTGCAGG
45403 IS	[AT]		CCCAATTTATTAACATCAGCAACAAAGAAAATTACTTTTAAAATGTAGTA[AT]GGACCAAGTGAAGTACATCTAGAGACT GAAAAAGTGCAGGAATTTTTAAA
45414 I		S	CCTGCTCCTCTGGCTTGGCAGGAGTCA
45414 P	A	S	CGCGCCGAGGTCCCAGGCAAGTTAGATACG
45414 P	G	S	CGCGCCGAGGCCCCAGGCAAGTTAGATAC
45414 T	A	S	CCTCCGTATCTAACTTGCCTGGGAGACTCCTGCCAAGCCAGAGGAGCAGGGC
45414 T	G	S	CCTCCGTATCTAACTTGCCTGGGGGACTCCTGCCAAGCCAGAGGAGCAGGGC
45414 IS	[AG]		ACCTCCTCTGGCTGTGATTTGGCATTTCCTCCGTATCTAACTTGCCTGGG[AG]GACTCCTGCCAAGCCAGAGGAGCA GGGCACAAATGGAGGCAGATCCTGCT
45418 I		A	CCTCTGACACACACATTACCAAACCTAGGGATTGTGTTCTTTCAAAATTA
45418 P	T	A	CGCGCCGAGGTGCCCTCAACAAACTACCT
45418 P	C	A	CGCGCCGAGGCGCCCTCAACAAACTACC
45418 T	T	A	ATACAGGTAGTTTGTTGAGGGCAAATTTTGAAAGAACACAATCCCTAGGTTTGGTAATGTGTGTGTCAGAGGA
45418 T	C	A	ATACAGGTAGTTTGTTGAGGGCGAATTTTGAAAGAACACAATCCCTAGGTTTGGTAATGTGTGTGTCAGAGGA
45418 IS	[TC]		TCCTCTGACACACACATTACCAAACCTAGGGATTGTGTTCTTTCAAAATT[TC]GCCCTCAACAAACTACCTGTATGCAC CTAAACGAAACAGTTGACCTACTT
45486 I		A	ACTGTCCTCTGTACATAGCTGGTCTAACTGGAGTGTCTAAAACAC
45486 P	G	A	CGCGCCGAGGGCCAGTCATTTAGCTAATCCT
45486 P	T	A	CGCGCCGAGGTCCAGTCATTTAGCTAATCCTG
45486 T	G	A	AAAACAGGATTAGCTAAATGACTGGCTGTTTTAGACACTCCAGTTAGACCAGCTATGTACAGAGGACAGTCA
45486 T	T	A	AAAACAGGATTAGCTAAATGACTGGATGTTTTAGACACTCCAGTTAGACCAGCTATGTACAGAGGACAGTCA
45486 IS	[GT]		AAGTTGACTGTCCTCTGTACATAGCTGGTCTAACTGGAGTGTCTAAAACA[GT]CCAGTCATTTAGCTAATCCTGTTTTT TTTTTTCCAAAAAGAACTAATTTA
45506 I		S	CTTCTCAATGTTTTTACTTTTTAGATTCACTTTGGGGGGAAGAGACATTTT
45506 P	T	S	CGCGCCGAGGAAAGAATCTGTGATTACATGGCC
45506 P	G	S	CGCGCCGAGGCAAGAATCTGTGATTACATGGC
45506 T	T	S	CAATGGCCATGTAATCACAGATTCTTTAAATGTCTCTTCCCCCCAAAGTGAATCTAAAAAGTAAAAACATTGAGAAG
45506 T	G	S	CAATGGCCATGTAATCACAGATTCTTGAAATGTCTCTTCCCCCCAAAGTGAATCTAAAAAGTAAAAACATTGAGAAG
45506 IS	[TG]		TTAGAAGTAGAATACTATTGGATTCAATGGCCATGTAATCACAGATTCTT[TG]AAATGTCTCTTCCCCCCAAAGTGAATC TAAAAAGTAAAAACATTGAGAAG
45567 I		S	AGCATGTTTAACTGTTTTACTATGCCTAAAGTTACAGATTGGTTTTACGAT
45567 P	T	S	CGCGCCGAGGACCTTGTAAAGAATTATTTAGTGTTGC
45567 P	C	S	CGCGCCGAGGGCCTTGTAAAGAATTATTTAGTGTTGC
45567 T	T	S	AATTGCAACACTAAATAATTCTTTACAAGGTTCGTAAAACCAATCTGTAACTTTAGGCATAGTAAAACAGTTAAACATGC T
45567 T	C	S	AATTGCAACACTAAATAATTCTTTACAAGGCTCGTAAAACCAATCTGTAACTTTAGGCATAGTAAAACAGTTAAACATGC T
45567 IS	[TC]		TACTGCCTAAAAAAACTAATAATTGCAACACTAAATAATTCTTTACAAGG[TC]TCGTAAAACCAATCTGTAACTTTAGGC ATAGTAAAACAGTTAAACATGCT
60801 I		S	CGCCAAAAATGGTGCAATTTAAGGAGGACCAAT
60801 P	C	S	CGCGCCGAGGGTTATACCCAGAACATGGAGAG
60801 P	T	S	CGCGCCGAGGATTATACCCAGAACATGGAGAG
60801 T	C	S	CTCATCTCTCCATGTTCTGGGTATAACTTGGTCCTCCTTAAATTGCACCATTTTTGGCGTT
60801 T	T	S	CTCATCTCTCCATGTTCTGGGTATAATTTGGTCCTCCTTAAATTGCACCATTTTTGGCGTT
60801 IS	[CT]		gttagaaaagagaatcccacctgtctcatctctcccatgttctgggtataa[CT]tggtcctcctaaattgcacccatttttggcgttagaagaaaaactggattt
60806 I		A	CACCTACATGAAGAAACACCACCTCAGAATAAAAGACAGCATCACATAT
60806 P	C	A	CGCGCCGAGGCTTTATGTGTAAATATCTCTATTTTAATTCTTATTTACTTAT
60806 P	G	A	CGCGCCGAGGGTTTATGTGTAAATATCTCTATTTTAATTCTTATTTACTTAT
60806 T	C	A	ACATATAAGTAAATAAGAATTAAAATAGAGATATTTACACATAAAGTATGTGATGCTGTCTTTTATTCTGAGGTGGTGTT TCTTCATGTAGGTGAG
60806 T	G	A	ACATATAAGTAAATAAGAATTAAAATAGAGATATTTACACATAAACTATGTGATGCTGTCTTTTATTCTGAGGTGGTGTT TCTTCATGTAGGTGAG
60806 IS	[CG]		ctcacctacatgaagaaccacacctcagaataaaagacagcatcacata[CG]ttatgtgtaaatatctctatttaattcttatttacttatatgtttacc
60811 I		S	TGTCATTTTTTAGTAAACTCTAAAGAGATTAGTTCTCTTAAATCTTTTCTT
60811 P	C	S	CGCGCCGAGGGTATCATCTAGTTCTGACCATTTCAT
60811 P	T	S	CGCGCCGAGGATATCATCTAGTTCTGACCATTTCATG
60811 T	C	S	TTTACATGAAATGGTCAGAACTAGATGATACAGAAAAGATTTAAGAGAACTAATCTCTTTAGAGTTTACTAAAAAATGAC A
60811 T	T	S	TTTACATGAAATGGTCAGAACTAGATGATATAGAAAAGATTTAAGAGAACTAATCTCTTTAGAGTTTACTAAAAAATGAC A
60811 IS	[CT]		tcctgtaatagtatactctttttacatgaaatggtcagaactagatgata[CT]agaaaagatttaagagaactaatctctttagagtttactaaaaaatgaca
60813 I		S	TTGCTCTCTACAAAATGTAAGCTGCCATGTGGAAGAGAGTAAGTAAAAATT
60813 P	T	S	CGCGCCGAGGATCAATACATTGCAGCTACTTGG
60813 P	C	S	CGCGCCGAGGGTCAATACATTGCAGCTACTTG
60813 T	T	S	CTGTCCAAGTAGCTGCAATGTATTGATATTTTTACTTACTCTCTTCCACATGGCAGCTTACATTTTGTAGAGAGCAA
60813 T	C	S	CTGTCCAAGTAGCTGCAATGTATTGACATTTTTACTTACTCTCTTCCACATGGCAGCTTACATTTTGTAGAGAGCAA
60813 IS	[TC]		aaaaccattgactctctctaaatgctgtccaagtagctgcaatgtattga[TC]attttacttactctctccacatggcagcttacatttgtagagagcaa
60896 I		A	GTAAGGGAGGAGATATGGGAATATACAGGGCAAAATTTATTTAACTTACCT
60896 P	A	A	CGCGCCGAGGAAAAGGTATGTGTATATATTCATGCCT
60896 P	G	A	CGCGCCGAGGGAAAGGTATGTGTATATATTCATGCCT
60896 T	A	A	ACAAAGGCATGAATATATACACATACCTTTTGGTAAGTTAAATAAATTTTGCCCTGTATATTCCCATATCTCCTCCCTTA C

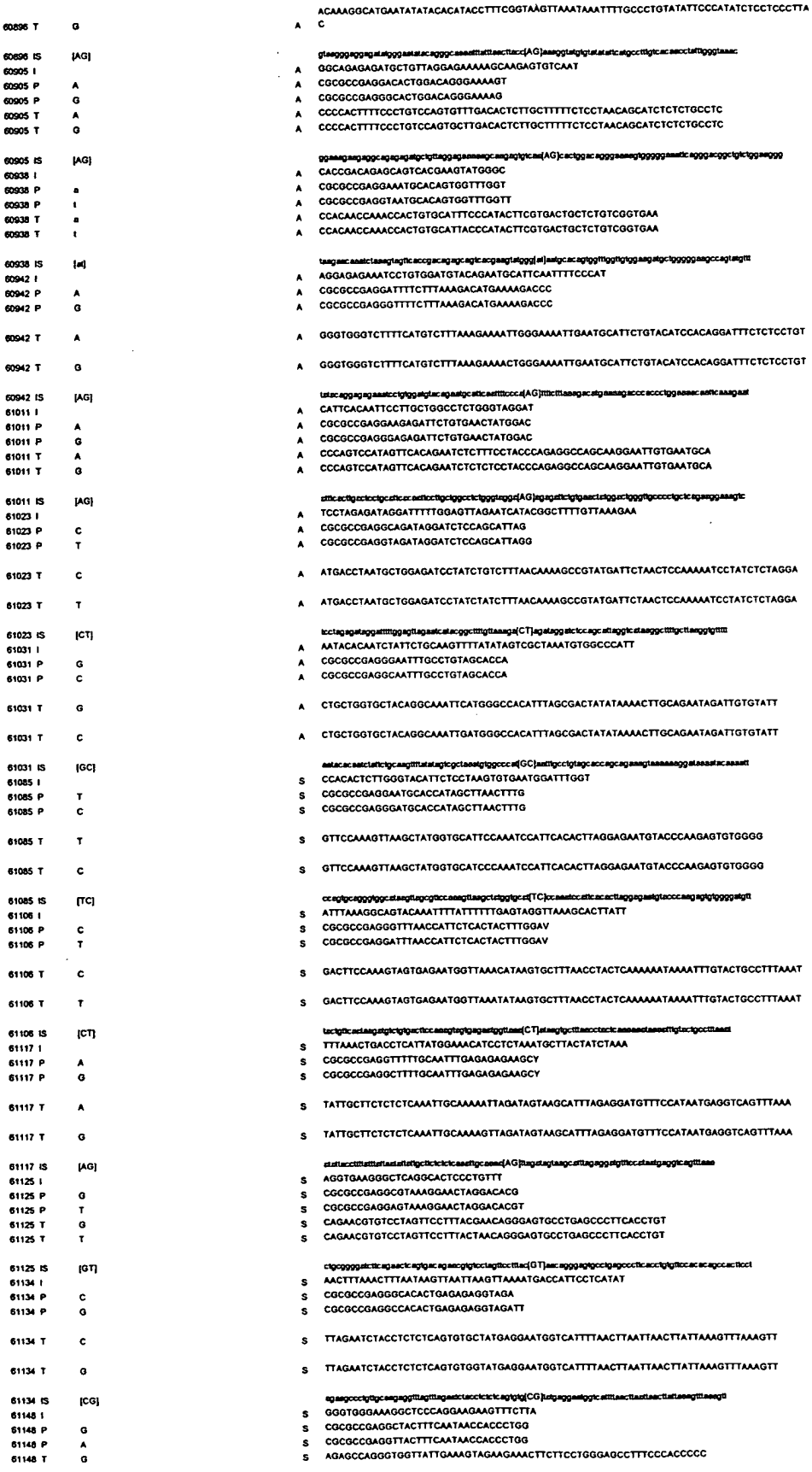

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60905 I A GGCAGAGAGATGCTGTTAGGAGAAAAAGCAAGAGTGTCAAT
60905 P A A CGCGCCGAGGACACTGGACAGGGAAAAGT
60905 P G A CGCGCCGAGGGCACTGGACAGGGAAAAG
60905 T A A CCCCACTTTTCCCTGTCCAGTGTTTGACACTCTTGCTTTTTCTCCTAACAGCATCTCTCTGCCTC
60905 T G A CCCCACTTTTCCCTGTCCAGTGCTTGACACTCTTGCTTTTTCTCCTAACAGCATCTCTCTGCCTC
60905 IS [AG] ggaaagaagaggcagagagatgctgttaggagaaaaagcaagagtgtgcaa[AG]cactggacagggaaaagtgggggaaatgcagggacggctgtctggaaggg
60938 I A CACCGACAGAGCAGTCACGAAGTATGGGC
60938 P a A CGCGCCGAGGAAATGCACAGTGGTTTGGT
60938 P t A CGCGCCGAGGTAATGCACAGTGGTTTGGTT
60938 T a A CCACAACCAAACCACTGTGCATTTCCCATACTTCGTGACTGCTCTGTCGGTGAA
60938 T t A CCACAACCAAACCACTGTGCATTACCCATACTTCGTGACTGCTCTGTCGGTGAA
60938 IS [at] taagaacaaatctaaagtagttcaccgacagcagcagtcacgaagtatgggg[at]aatgcacagtggtttggttgtggaagatgctgggggaagccagtatgttt
60942 I A AGGAGAGAAATCCTGTGGATGTACAGAATGCATTCAATTTTCCCAT
60942 P A A CGCGCCGAGGATTTTCTTTAAAGACATGAAAAGACCC
60942 P G A CGCGCCGAGGGTTTTCTTTAAAGACATGAAAAGACCC
60942 T A A GGGTGGGTCTTTTCATGTCTTTAAAGAAAATTGGGAAAATTGAATGCATTCTGTACATCCACAGGATTTCTCTCCTGT
60942 T G A GGGTGGGTCTTTTCATGTCTTTAAAGAAAACTGGGAAAATTGAATGCATTCTGTACATCCACAGGATTTCTCTCCTGT
60942 IS [AG] tatacaggagagaaatcctgtggatgtacagaatgcattcaattttcccat[AG]tttcttaaagacatgaaaagaccccccctggaaaacaatttcaaagaat
61011 I A CATTCACAATTCCTTGCTGGCCTCTGGGTAGGAT
61011 P A A CGCGCCGAGGAAGAGATTCTGTGAACTATGGAC
61011 P G A CGCGCCGAGGGAGAGATTCTGTGAACTATGGAC
61011 T A A CCCAGTCCATAGTTCACAGAATCTCTTTCCTACCCAGAGGCCAGCAAGGAATTGTGAATGCA
61011 T G A CCCAGTCCATAGTTCACAGAATCTCTCTCCTACCCAGAGGCCAGCAAGGAATTGTGAATGCA
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61023 I A TCCTAGAGATAGGATTTTTGGAGTTAGAATCATACGGCTTTTGTTAAAGAA
61023 P C A CGCGCCGAGGCAGATAGGATCTCCAGCATTAG
61023 P T A CGCGCCGAGGTAGATAGGATCTCCAGCATTAGG
61023 T C A ATGACCTAATGCTGGAGATCCTATCTGTCTTTAACAAAAGCCGTATGATTCTAACTCCAAAAATCCTATCTCTAGGA
61023 T T A ATGACCTAATGCTGGAGATCCTATCTATCTTTAACAAAAGCCGTATGATTCTAACTCCAAAAATCCTATCTCTAGGA
61023 IS [CT] tcctagagatagggattttttggagttagaatcatacggctttgttaaaagat[CT]agatagggatctccagcattagggtcttaaggctttttgcttaaggtgttttt
61031 I A AATACACAATCTATTCTGCAAGTTTTATATAGTCGCTAAATGTGGCCCATT
61031 P G A CGCGCCGAGGGAATTTGCCTGTAGCACCA
61031 P C A CGCGCCGAGGCAATTTGCCTGTAGCACCA
61031 T G A CTGCTGGTGCTACAGGCAAATTCATGGGCCACATTTAGCGACTATATAAAACTTGCAGAATAGATTGTGTATT
61031 T C A CTGCTGGTGCTACAGGCAAATTGATGGGCCACATTTAGCGACTATATAAAACTTGCAGAATAGATTGTGTATT
61031 IS [GC] aatacacaatctatctgcaagtttatatagtcgctaaatgtggcccat[GC]aatttgcctgtagcaccagcagaaagtaaaaaaaggatataaatacaaaatt
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61085 P T S CGCGCCGAGGAATGCACCATAGCTTAACTTTG
61085 P C S CGCGCCGAGGGATGCACCATAGCTTAACTTTG
61085 T T S GTTCCAAAGTTAAGCTATGGTGCATTCCAAATCCATTCACACTTAGGAGAATGTACCCAAGAGTGTGGGG
61085 T C S GTTCCAAAGTTAAGCTATGGTGCATCCCAAATCCATTCACACTTAGGAGAATGTACCCAAGAGTGTGGGG
61085 IS [TC] ccagtgcagggtggcatcaagttagcgtccaaagttaagctctgggtgcat[TC]ccaaatccattcacacttagggagaatgtacccaagagtgtgggggtgtt
61106 I S ATTTAAAGGCAGTACAAATTTTATTTTTTGAGTAGGTTAAAGCACTTATT
61106 P C S CGCGCCGAGGGTTTAACCATTCTCACTACTTTGGAV
61106 P T S CGCGCCGAGGATTTAACCATTCTCACTACTTTGGAV
61106 T C S GACTTCCAAAGTAGTGAGAATGGTTAAACATAAGTGCTTTAACCTACTCAAAAAATAAAATTTGTACTGCCTTTAAAT
61106 T T S GACTTCCAAAGTAGTGAGAATGGTTAAATATAAGTGCTTTAACCTACTCAAAAAATAAAATTTGTACTGCCTTTAAAT
61106 IS [CT] tactgttcactaagatgtctgtgctccaaagtagtgagaatggttaaa[CT]ataagtgcttaacctactcaaaaaatataaatttgtactgccttaaat
61117 I S TTTAAACTGACCTCATTATGGAAACATCCTCTAAATGCTTACTATCTAAA
61117 P A S CGCGCCGAGGTTTTTGCAATTTGAGAGAGAAGCY
61117 P G S CGCGCCGAGGCTTTTGCAATTTGAGAGAGAAGCY
61117 T A S TATTGCTTCTCTCTCAAATTGCAAAAATTAGATAGTAAGCATTTAGAGGATGTTTCCATAATGAGGTCAGTTTAAA
61117 T G S TATTGCTTCTCTCTCAAATTGCAAAAGTTAGATAGTAAGCATTTAGAGGATGTTTCCATAATGAGGTCAGTTTAAA
61117 IS [AG] atatttacctttattatttaatatatatgctctctctctcaaatttgccaaaa[AG]ttagatagtaagcatttagaggatgtttcctataatgaggtcagtttaaa
61125 I S AGGTGAAGGGCTCAGGCACTCCCTGTTT
61125 P G S CGCGCCGAGGCGTAAAGGAACTAGGACACG
61125 P T S CGCGCCGAGGAGTAAAGGAACTAGGACACGT
61125 T G S CAGAACGTGTCCTAGTTCCTTTACGAACAGGGAGTGCCTGAGCCCTTCACCTGT
61125 T T S CAGAACGTGTCCTAGTTCCTTTACTAACAGGGAGTGCCTGAGCCCTTCACCTGT
61125 IS [GT] ctgcgggggatcttcagaactcagtgacagaacgtgtcctagttcctttac[GT]aacagggagtgccctgagcccttcacctgtgttccacacagccacttcct
61134 I S AACTTTAAACTTTAATAAGTTAATTAAGTTAAAATGACCATTCCTCATAT
61134 P C S CGCGCCGAGGGCACACTGAGAGAGGTAGA
61134 P G S CGCGCCGAGGCCACACTGAGAGAGGTAGATT
61134 T C S TTAGAATCTACCTCTCTCAGTGTGCTATGAGGAATGGTCATTTTAACTTAATTAACTTATTAAAGTTTAAAGTT
61134 T G S TTAGAATCTACCTCTCTCAGTGTGGTATGAGGAATGGTCATTTTAACTTAATTAACTTATTAAAGTTTAAAGTT
61134 IS [CG] agaagcccctgtggcaagaggtttagtttagaatctacctctctcagtgtg[CG]tatgaggaatggtcatttaacttaattaacttatttaaagtttaaagtt
61148 I S GGGTGGGAAAGGCTCCCAGGAAGAAGTTTCTTA
61148 P G S CGCGCCGAGGCTACTTTCAATAACCACCCTGG
61148 P A S CGCGCCGAGGTTACTTTCAATAACCACCCTGG
61148 T G S AGAGCCAGGGTGGTTATTGAAAGTAGAAGAAACTTCTTCCTGGGAGCCTTTCCCACCCCC

FIGURE 129D

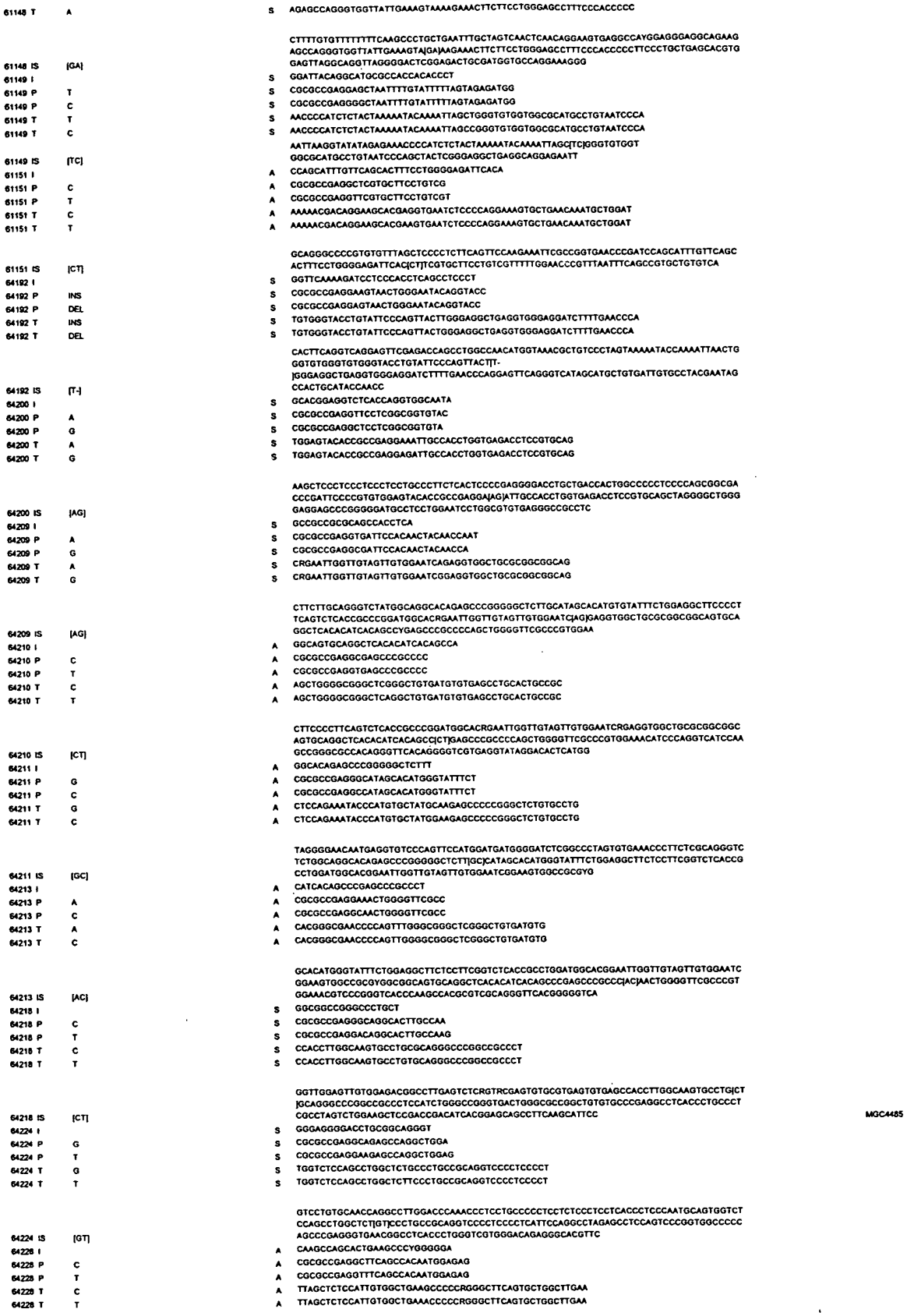

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61148 IS [GA] GAGTTAGGCAGGTTAGGGGACTCGGAGACTGCGATGGTGCCAGGAAAGGG
61149 I S GGATTACAGGCATGCGCCACCACACCCT
61149 P T S CGCGCCGAGGAGCTAATTTTGTATTTTTAGTAGAGATGG
61149 P C S CGCGCCGAGGGGCTAATTTTGTATTTTTAGTAGAGATGG
61149 T T S AACCCCATCTCTACTAAAAATACAAAATTAGCTGGGTGTGGTGGCGCATGCCTGTAATCCCA
61149 T C S AACCCCATCTCTACTAAAAATACAAAATTAGCCGGGTGTGGTGGCGCATGCCTGTAATCCCA
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61149 IS [TC] GGCGCATGCCTGTAATCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATT
61151 I A CCAGCATTTGTTCAGCACTTTCCTGGGGAGATTCACA
61151 P C A CGCGCCGAGGCTCGTGCTTCCTGTCG
61151 P T A CGCGCCGAGGTTCGTGCTTCCTGTCGT
61151 T C A AAAAACGACAGGAAGCACGAGGTGAATCTCCCCAGGAAAGTGCTGAACAAATGCTGGAT
61151 T T A AAAAACGACAGGAAGCACGAAGTGAATCTCCCCAGGAAAGTGCTGAACAAATGCTGGAT
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61151 IS [CT] ACTTTCCTGGGGAGATTCAC[CT]TCGTGCTTCCTGTCGTTTTTGGAACCCGTTTAATTTCAGCCGTGCTGTGTCA
64192 I S GGTTCAAAAGATCCTCCCACCTCAGCCTCCCT
64192 P INS S CGCGCCGAGGAAGTAACTGGGAATACAGGTACC
64192 P DEL S CGCGCCGAGGAGTAACTGGGAATACAGGTACC
64192 T INS S TGTGGGTACCTGTATTCCCAGTTACTTGGGAGGCTGAGGTGGGAGGATCTTTTGAACCCA
64192 T DEL S TGTGGGTACCTGTATTCCCAGTTACTGGGAGGCTGAGGTGGGAGGATCTTTTGAACCCA
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64192 IS [T-]]GGGAGGCTGAGGTGGGAGGATCTTTTGAACCCAGGAGTTCAGGGTCATAGCATGCTGTGATTGTGCCTACGAATAG
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64200 I S GCACGGAGGTCTCACCAGGTGGCAATA
64200 P A S CGCGCCGAGGTTCCTCGGCGGTGTAC
64200 P G S CGCGCCGAGGCTCCTCGGCGGTGTA
64200 T A S TGGAGTACACCGCCGAGGAAATTGCCACCTGGTGAGACCTCCGTGCAG
64200 T G S TGGAGTACACCGCCGAGGAGATTGCCACCTGGTGAGACCTCCGTGCAG
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64200 IS [AG] GAGGAGCCCGGGGGATGCCTCCTGGAATCCTGGCGTGTGAGGGCCGCCTC
64209 I S GCCGCCGCGCAGCCACCTCA
64209 P A S CGCGCCGAGGTGATTCCACAACTACAACCAAT
64209 P G S CGCGCCGAGGCGATTCCACAACTACAACCA
64209 T A S CRGAATTGGTTGTAGTTGTGGAATCAGAGGTGGCTGCGCGGCGGCAG
64209 T G S CRGAATTGGTTGTAGTTGTGGAATCGGAGGTGGCTGCGCGGCGGCAG
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64209 IS [AG] GGCTCACACATCACAGCCYGAGCCCGCCCCAGCTGGGGTTCGCCCGTGGAA
64210 I A GGCAGTGCAGGCTCACACATCACAGCCA
64210 P C A CGCGCCGAGGCGAGCCCGCCCC
64210 P T A CGCGCCGAGGTGAGCCCGCCCC
64210 T C A AGCTGGGGCGGGCTCGGGCTGTGATGTGTGAGCCTGCACTGCCGC
64210 T T A AGCTGGGGCGGGCTCAGGCTGTGATGTGTGAGCCTGCACTGCCGC
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64211 I A GGCACAGAGCCCGGGGGCTCTTT
64211 P G A CGCGCCGAGGGCATAGCACATGGGTATTTCT
64211 P C A CGCGCCGAGGCCATAGCACATGGGTATTTCT
64211 T G A CTCCAGAAATACCCATGTGCTATGCAAGAGCCCCCGGGCTCTGTGCCTG
64211 T C A CTCCAGAAATACCCATGTGCTATGGAAGAGCCCCCGGGCTCTGTGCCTG
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64211 IS [GC] CCTGGATGGCACGGAATTGGTTGTAGTTGTGGAATCGGAAGTGGCCGCGYG
64213 I A CATCACAGCCCGAGCCCGCCCT
64213 P A A CGCGCCGAGGAAACTGGGGTTCGCC
64213 P C A CGCGCCGAGGCAACTGGGGTTCGCC
64213 T A A CACGGGCGAACCCCAGTTTGGGCGGGCTCGGGCTGTGATGTG
64213 T C A CACGGGCGAACCCCAGTTGGGGCGGGCTCGGGCTGTGATGTG
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64213 IS [AC] GGAAACGTCCCGGGTCACCCAAGCCACGCGTCGCAGGGTTCACGGGGGTCA
64218 I S GGCGGCCGGGCCCTGCT
64218 P C S CGCGCCGAGGGCAGGCACTTGCCAA
64218 P T S CGCGCCGAGGACAGGCACTTGCCAAG
64218 T C S CCACCTTGGCAAGTGCCTGCGCAGGGCCCGGCCGCCCT
64218 T T S CCACCTTGGCAAGTGCCTGTGCAGGGCCCGGCCGCCCT
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]GCAGGGCCCGGCCGCCCTCCATCTGGGCCGGGTGACTGGGCGCCGGCTGTGTGCCCGAGGCCTCACCCTGCCCT
64218 IS [CT] CGCCTAGTCTGGAAGCTCCGACCGACATCACGGAGCAGCCTTCAAGCATTCC MGC4485
64224 I S GGGAGGGGACCTGCGGCAGGGT
64224 P G S CGCGCCGAGGCAGAGCCAGGCTGGA
64224 P T S CGCGCCGAGGAAGAGCCAGGCTGGAG
64224 T G S TGGTCTCCAGCCTGGCTCTGCCCTGCCGCAGGTCCCCTCCCCT
64224 T T S TGGTCTCCAGCCTGGCTCTTCCCTGCCGCAGGTCCCCTCCCCT
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64224 IS [GT] AGCCCGAGGGTGAACGGCCTCACCCTGGGTCGTGGGACAGAGGGCACGTTC
64228 I A CAAGCCAGCACTGAAGCCCYGGGGGA
64228 P C A CGCGCCGAGGCTTCAGCCACAATGGAGAG
64228 P T A CGCGCCGAGGTTTCAGCCACAATGGAGAG
64228 T C A TTAGCTCTCCATTGTGGCTGAAGCCCCCRGGGCTTCAGTGCTGGCTTGAA
64228 T T A TTAGCTCTCCATTGTGGCTGAAACCCCCRGGGCTTCAGTGCTGGCTTGAA

FIGURE 129D

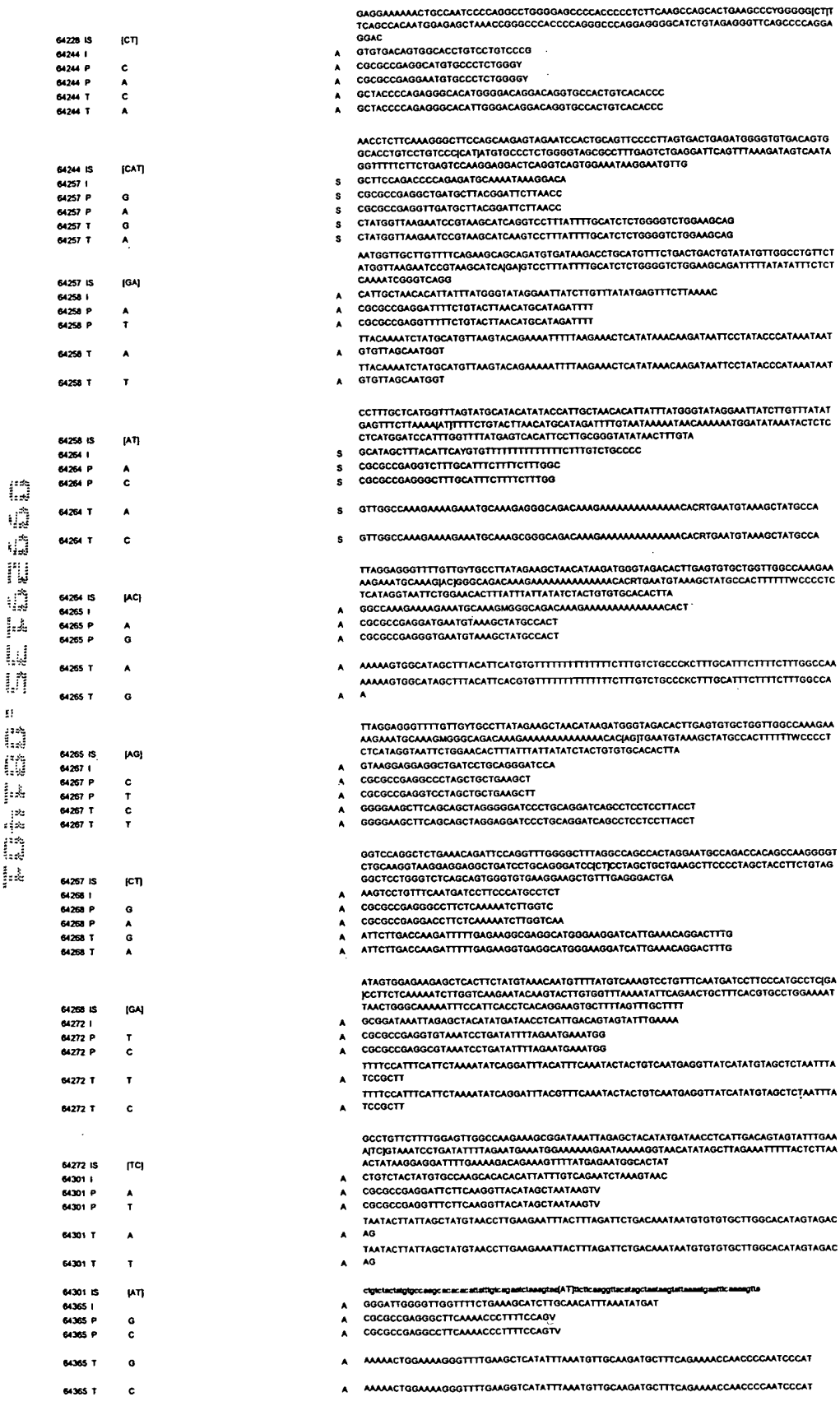

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64228 IS [CT] GGAC
64244 I A GTGTGACAGTGGCACCTGTCCTGTCCCG
64244 P C A CGCGCCGAGGCATGTGCCCTCTGGGY
64244 P A A CGCGCCGAGGAATGTGCCCTCTGGGGY
64244 T C A GCTACCCCAGAGGGCACATGGGGACAGGACAGGTGCCACTGTCACACCC
64244 T A A GCTACCCCAGAGGGCACATTGGGACAGGACAGGTGCCACTGTCACACCC
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64244 IS [CAT] GGTTTTTCTTCTGAGTCCAAGGAGGACTCAGGTCAGTGGAAATAAGGAATGTTG
64257 I S GCTTCCAGACCCCAGAGATGCAAAATAAAGGACA
64257 P G S CGCGCCGAGGCTGATGCTTACGGATTCTTAACC
64257 P A S CGCGCCGAGGTTGATGCTTACGGATTCTTAACC
64257 T G S CTATGGTTAAGAATCCGTAAGCATCAGGTCCTTTATTTTGCATCTCTGGGGTCTGGAAGCAG
64257 T A S CTATGGTTAAGAATCCGTAAGCATCAAGTCCTTTATTTTGCATCTCTGGGGTCTGGAAGCAG
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64257 IS [GA] CAAAATCGGGTCAGG
64258 I A CATTGCTAACACATTATTTATGGGTATAGGAATTATCTTGTTTATATGAGTTTCTTAAAAC
64258 P A A CGCGCCGAGGATTTTCTGTACTTAACATGCATAGATTTT
64258 P T A CGCGCCGAGGTTTTTCTGTACTTAACATGCATAGATTTT
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64258 IS [AT] CTCATGGATCCATTTGGTTTTATGAGTCACATTCCTTGCGGGTATATAACTTTGTA
64264 I S GCATAGCTTTACATTCAYGTGTTTTTTTTTTTTTTTCTTTGTCTGCCCC
64264 P A S CGCGCCGAGGTCTTTGCATTTCTTTTCTTTGGC
64264 P C S CGCGCCGAGGGCTTTGCATTTCTTTTCTTTGG
64264 T A S GTTGGCCAAAGAAAAGAAATGCAAAGAGGGCAGACAAAGAAAAAAAAAAAAAACACRTGAATGTAAAGCTATGCCA
64264 T C S GTTGGCCAAAGAAAAGAAATGCAAAGCGGGCAGACAAAGAAAAAAAAAAAAAACACRTGAATGTAAAGCTATGCCA
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64264 IS [AC] TCATAGGTAATTCTGGAACACTTTATTTATTATATCTACTGTGTGCACACTTA
64265 I A GGCCAAAGAAAAGAAATGCAAAGMGGGCAGACAAAGAAAAAAAAAAAAAAACACT
64265 P A A CGCGCCGAGGATGAATGTAAAGCTATGCCACT
64265 P G A CGCGCCGAGGGTGAATGTAAAGCTATGCCACT
64265 T A A AAAAAGTGGCATAGCTTTACATTCATGTGTTTTTTTTTTTTTCTTTGTCTGCCCKCTTTGCATTTCTTTTCTTTGGCCAA
64265 T G A AAAAAGTGGCATAGCTTTACATTCACGTGTTTTTTTTTTTTTCTTTGTCTGCCCKCTTTGCATTTCTTTTCTTTGGCCA
A
TTAGGAGGGTTTTGTTGYTGCCTTATAGAAGCTAACATAAGATGGGTAGACACTTGAGTGTGCTGGTTGGCCAAAGAA
AAGAAATGCAAAGMGGGCAGACAAAGAAAAAAAAAAAAAACAC[AG]TGAATGTAAAGCTATGCCACTTTTTTWCCCCT
64265 IS [AG] CTCATAGGTAATTCTGGAACACTTTATTTATTATATCTACTGTGTGCACACTTA
64267 I A GTAAGGAGGAGGCTGATCCTGCAGGGATCCA
64267 P C A CGCGCCGAGGCCCTAGCTGCTGAAGCT
64267 P T A CGCGCCGAGGTCCTAGCTGCTGAAGCTT
64267 T C A GGGGAAGCTTCAGCAGCTAGGGGGATCCCTGCAGGATCAGCCTCCTCCTTACCT
64267 T T A GGGGAAGCTTCAGCAGCTAGGAGGATCCCTGCAGGATCAGCCTCCTCCTTACCT
GGTCCAGGCTCTGAAACAGATTCCAGGTTTGGGGCTTTAGGCCAGCCACTAGGAATGCCAGACCACAGCCAAGGGGT
CTGCAAGGTAAGGAGGAGGCTGATCCTGCAGGGATCC[CT]CCTAGCTGCTGAAGCTTCCCCTAGCTACCTTCTGTAG
64267 IS [CT] GGCTCCTGGGTCTCAGCAGTGGGTGTGAAGGAAGCTGTTTGAGGGACTGA
64268 I A AAGTCCTGTTTCAATGATCCTTCCCATGCCTCT
64268 P G A CGCGCCGAGGGCCTTCTCAAAAATCTTGGTC
64268 P A A CGCGCCGAGGACCTTCTCAAAAATCTTGGTCAA
64268 T G A ATTCTTGACCAAGATTTTTGAGAAGGCGAGGCATGGGAAGGATCATTGAAACAGGACTTTG
64268 T A A ATTCTTGACCAAGATTTTTGAGAAGGTGAGGCATGGGAAGGATCATTGAAACAGGACTTTG
ATAGTGGAGAAGAGCTCACTTCTATGTAAACAATGTTTTATGTCAAAGTCCTGTTTCAATGATCCTTCCCATGCCTC[GA
]CCTTCTCAAAAATCTTGGTCAAGAATACAAGTACTTGTGGTTTAAAATATTCAGAACTGCTTTCACGTGCCTGGAAAAT
64268 IS [GA] TAACTGGGCAAAAATTTCCATTCACCTCACAGGAAGTGCTTTTAGTTTGCTTTT
64272 I A GCGGATAAATTAGAGCTACATATGATAACCTCATTGACAGTAGTATTTGAAAA
64272 P T A CGCGCCGAGGTGTAAATCCTGATATTTTAGAATGAAATGG
64272 P C A CGCGCCGAGGCGTAAATCCTGATATTTTAGAATGAAATGG
TTTTCCATTTCATTCTAAAATATCAGGATTTACATTTCAAATACTACTGTCAATGAGGTTATCATATGTAGCTCTAATTTA
64272 T T A TCCGCTT
TTTTCCATTTCATTCTAAAATATCAGGATTTACGTTTCAAATACTACTGTCAATGAGGTTATCATATGTAGCTCTAATTTA
64272 T C A TCCGCTT
GCCTGTTCTTTTGGAGTTGGCCAAGAAAGCGGATAAATTAGAGCTACATATGATAACCTCATTGACAGTAGTATTTGAA
A[TC]GTAAATCCTGATATTTTAGAATGAAATGGAAAAAAGAATAAAAAGGTAACATATAGCTTAGAAATTTTTACTCTTAA
64272 IS [TC] ACTATAAGGAGGATTTTGAAAAGACAGAAAGTTTTATGAGAATGGCACTAT
64301 I A CTGTCTACTATGTGCCAAGCACACACATTATTTGTCAGAATCTAAAGTAAC
64301 P A A CGCGCCGAGGATTCTTCAAGGTTACATAGCTAATAAGTV
64301 P T A CGCGCCGAGGTTTCTTCAAGGTTACATAGCTAATAAGTV
TAATACTTATTAGCTATGTAACCTTGAAGAATTTACTTTAGATTCTGACAAATAATGTGTGTGCTTGGCACATAGTAGAC
64301 T A A AG
TAATACTTATTAGCTATGTAACCTTGAAGAAATTACTTTAGATTCTGACAAATAATGTGTGTGCTTGGCACATAGTAGAC
64301 T T A AG
64301 IS [AT] ctgctactagtgccaagcacacacatatttgtcagaatctaaagtaa[AT]tcttcaaggttacatagctaataagtatttaaaatgaatttcaaaagttta
64365 I A GGGATTGGGGTTGGTTTTCTGAAAGCATCTTGCAACATTTAAATATGAT
64365 P G A CGCGCCGAGGGCTTCAAAACCCTTTTCCAGV
64365 P C A CGCGCCGAGGCCTTCAAAACCCTTTTCCAGTV
64365 T G A AAAAACTGGAAAAGGGTTTTGAAGCTCATATTTAAATGTTGCAAGATGCTTTCAGAAAACCAACCCCAATCCCAT
64365 T C A AAAAACTGGAAAAGGGTTTTGAAGGTCATATTTAAATGTTGCAAGATGCTTTCAGAAAACCAACCCCAATCCCAT

FIGURE 129D

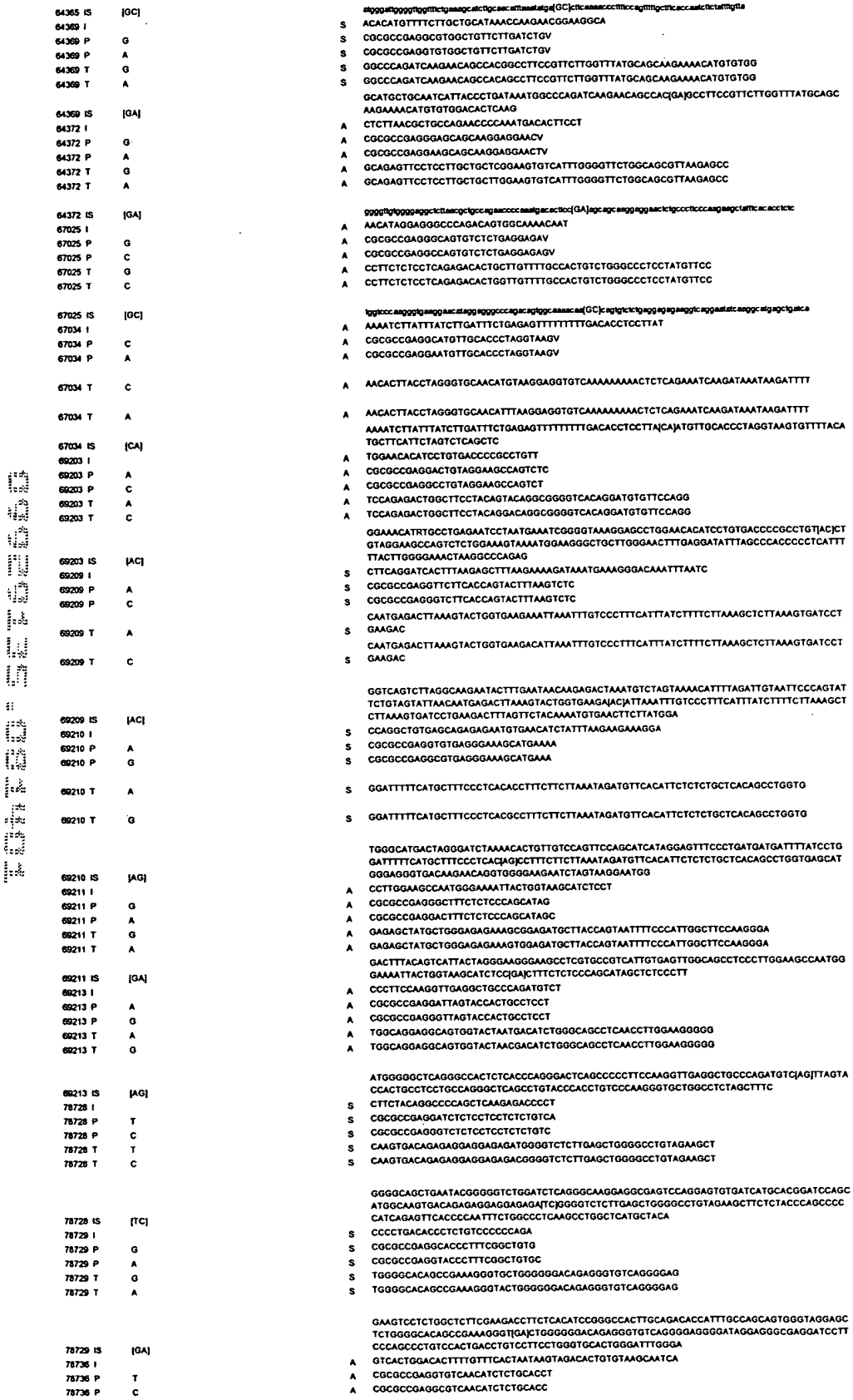

64365 IS [GC]
64369 I S ACACATGTTTTCTTGCTGCATAAACCAAGAACGGAAGGCA
64369 P G S CGCGCCGAGGCGTGGCTGTTCTTGATCTGV
64369 P A S CGCGCCGAGGTGTGGCTGTTCTTGATCTGV
64369 T G S GGCCCAGATCAAGAACAGCCACGGCCTTCCGTTCTTGGTTTATGCAGCAAGAAAACATGTGTGG
64369 T A S GGCCCAGATCAAGAACAGCCACAGCCTTCCGTTCTTGGTTTATGCAGCAAGAAAACATGTGTGG
64369 IS [GA]
64372 I A CTCTTAACGCTGCCAGAACCCCAAATGACACTTCCT
64372 P G A CGCGCCGAGGGAGCAGCAAGGAGGAACV
64372 P A A CGCGCCGAGGAAGCAGCAAGGAGGAACTV
64372 T G A GCAGAGTTCCTCCTTGCTGCTCGGAAGTGTCATTTGGGGTTCTGGCAGCGTTAAGAGCC
64372 T A A GCAGAGTTCCTCCTTGCTGCTTGGAAGTGTCATTTGGGGTTCTGGCAGCGTTAAGAGCC
64372 IS [GA]
67025 I A AACATAGGAGGGCCCAGACAGTGGCAAAACAAT
67025 P G A CGCGCCGAGGGCAGTGTCTCTGAGGAGAV
67025 P C A CGCGCCGAGGCCAGTGTCTCTGAGGAGAGV
67025 T G A CCTTCTCTCCTCAGAGACACTGCTTGTTTTGCCACTGTCTGGGCCCTCCTATGTTCC
67025 T C A CCTTCTCTCCTCAGAGACACTGGTTGTTTTGCCACTGTCTGGGCCCTCCTATGTTCC
67025 IS [GC]
67034 I A AAAATCTTATTTATCTTGATTTCTGAGAGTTTTTTTTTGACACCTCCTTAT
67034 P C A CGCGCCGAGGCATGTTGCACCCTAGGTAAGV
67034 P A A CGCGCCGAGGAATGTTGCACCCTAGGTAAGV
67034 T C A AACACTTACCTAGGGTGCAACATGTAAGGAGGTGTCAAAAAAAAACTCTCAGAAATCAAGATAAATAAGATTTT
67034 T A A AACACTTACCTAGGGTGCAACATTTAAGGAGGTGTCAAAAAAAAACTCTCAGAAATCAAGATAAATAAGATTTT
67034 IS [CA]
69203 I A TGGAACACATCCTGTGACCCCGCCTGTT
69203 P A A CGCGCCGAGGACTGTAGGAAGCCAGTCTC
69203 P C A CGCGCCGAGGCCTGTAGGAAGCCAGTCT
69203 T A A TCCAGAGACTGGCTTCCTACAGTACAGGCGGGGTCACAGGATGTGTTCCAGG
69203 T C A TCCAGAGACTGGCTTCCTACAGGACAGGCGGGGTCACAGGATGTGTTCCAGG
69203 IS [AC]
69209 I S CTTCAGGATCACTTTAAGAGCTTTAAGAAAAGATAAATGAAAGGGACAAATTTAATC
69209 P A S CGCGCCGAGGTTCTTCACCAGTACTTTAAGTCTC
69209 P C S CGCGCCGAGGGTCTTCACCAGTACTTTAAGTCTC
69209 T A S GAAGAC
69209 T C S GAAGAC
69209 IS [AC]
69210 I S CCAGGCTGTGAGCAGAGAGAATGTGAACATCTATTTAAGAAGAAAGGA
69210 P A S CGCGCCGAGGTGTGAGGGAAAGCATGAAAA
69210 P G S CGCGCCGAGGCGTGAGGGAAAGCATGAAA
69210 T A S GGATTTTTCATGCTTTCCCTCACACCTTTCTTCTTAAATAGATGTTCACATTCTCTCTGCTCACAGCCTGGTG
69210 T G S GGATTTTTCATGCTTTCCCTCACGCCTTTCTTCTTAAATAGATGTTCACATTCTCTCTGCTCACAGCCTGGTG
69210 IS [AG]
69211 I A CCTTGGAAGCCAATGGGAAAATTACTGGTAAGCATCTCCT
69211 P G A CGCGCCGAGGGCTTTCTCTCCCAGCATAG
69211 P A A CGCGCCGAGGACTTTCTCTCCCAGCATAGC
69211 T G A GAGAGCTATGCTGGGAGAGAAAGCGGAGATGCTTACCAGTAATTTTCCCATTGGCTTCCAAGGGA
69211 T A A GAGAGCTATGCTGGGAGAGAAAGTGGAGATGCTTACCAGTAATTTTCCCATTGGCTTCCAAGGGA
69211 IS [GA]
69213 I A CCCTTCCAAGGTTGAGGCTGCCCAGATGTCT
69213 P A A CGCGCCGAGGATTAGTACCACTGCCTCCT
69213 P G A CGCGCCGAGGGTTAGTACCACTGCCTCCT
69213 T A A TGGCAGGAGGCAGTGGTACTAATGACATCTGGGCAGCCTCAACCTTGGAAGGGGG
69213 T G A TGGCAGGAGGCAGTGGTACTAACGACATCTGGGCAGCCTCAACCTTGGAAGGGGG
69213 IS [AG]
78728 I S CTTCTACAGGCCCCAGCTCAAGAGACCCCT
78728 P T S CGCGCCGAGGATCTCTCCTCCTCTCTGTCA
78728 P C S CGCGCCGAGGGTCTCTCCTCCTCTCTGTC
78728 T T S CAAGTGACAGAGAGGAGGAGAGATGGGGTCTCTTGAGCTGGGGCCTGTAGAAGCT
78728 T C S CAAGTGACAGAGAGGAGGAGAGACGGGGTCTCTTGAGCTGGGGCCTGTAGAAGCT
78728 IS [TC]
78729 I S CCCCTGACACCCTCTGTCCCCCCAGA
78729 P G S CGCGCCGAGGCACCCTTTCGGCTGTG
78729 P A S CGCGCCGAGGTACCCTTTCGGCTGTGC
78729 T G S TGGGGCACAGCCGAAAGGGTGCTGGGGGGACAGAGGGTGTCAGGGGAG
78729 T A S TGGGGCACAGCCGAAAGGGTACTGGGGGGACAGAGGGTGTCAGGGGAG
78729 IS [GA]
78736 I A GTCACTGGACACTTTTGTTTCACTAATAAGTAGACACTGTGTAAGCAATCA
78736 P T A CGCGCCGAGGTGTCAACATCTCTGCACCT
78736 P C A CGCGCCGAGGCGTCAACATCTCTGCACC

FIGURE 129D

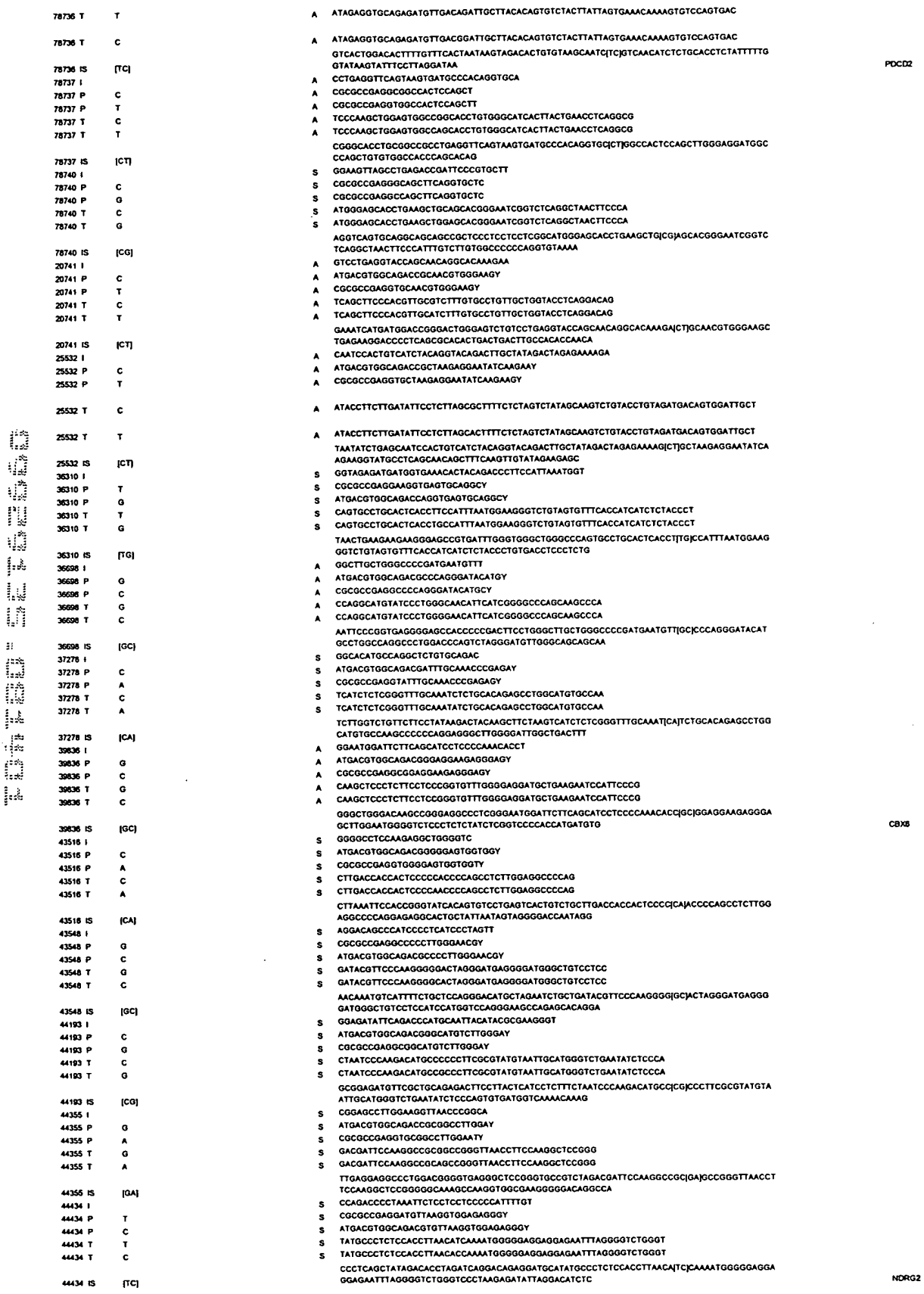

78736 T T A ATAGAGGTGCAGAGATGTTGACAGATTGCTTACACAGTGTCTACTTATTAGTGAAACAAAAGTGTCCAGTGAC
78736 T C A ATAGAGGTGCAGAGATGTTGACGGATTGCTTACACAGTGTCTACTTATTAGTGAAACAAAAGTGTCCAGTGAC
78736 IS [TC] GTCACTGGACACTTTTGTTTCACTAATAAGTAGACACTGTGTAAGCAATC[TC]GTCAACATCTCTGCACCTCTATTTTTG GTATAAGTATTTCCTTAGGATAA PDCD2
78737 I A CCTGAGGTTCAGTAAGTGATGCCCACAGGTGCA
78737 P C A CGCGCCGAGGCGGCCACTCCAGCT
78737 P T A CGCGCCGAGGTGGCCACTCCAGCTT
78737 T C A TCCCAAGCTGGAGTGGCCGGCACCTGTGGGCATCACTTACTGAACCTCAGGCG
78737 T T A TCCCAAGCTGGAGTGGCCAGCACCTGTGGGCATCACTTACTGAACCTCAGGCG
78737 IS [CT] CGGGCACCTGCGGCCGCCTGAGGTTCAGTAAGTGATGCCCACAGGTGC[CT]GGCCACTCCAGCTTGGGAGGATGGC CCAGCTGTGTGGCCACCCAGCACAG
78740 I S GGAAGTTAGCCTGAGACCGATTCCCGTGCTT
78740 P C S CGCGCCGAGGGCAGCTTCAGGTGCTC
78740 P G S CGCGCCGAGGCCAGCTTCAGGTGCTC
78740 T C S ATGGGAGCACCTGAAGCTGCAGCACGGGAATCGGTCTCAGGCTAACTTCCCA
78740 T G S ATGGGAGCACCTGAAGCTGGAGCACGGGAATCGGTCTCAGGCTAACTTCCCA
78740 IS [CG] AGGTCAGTGCAGGCAGCAGCCGCTCCCTCCTCCTCGGCATGGGAGCACCTGAAGCTG[CG]AGCACGGGAATCGGTC TCAGGCTAACTTCCCATTTGTCTTGTGGCCCCCCAGGTGTAAAA
20741 I A GTCCTGAGGTACCAGCAACAGGCACAAAGAA
20741 P C A ATGACGTGGCAGACCGCAACGTGGGAAGY
20741 P T A CGCGCCGAGGTGCAACGTGGGAAGY
20741 T C A TCAGCTTCCCACGTTGCGTCTTTGTGCCTGTTGCTGGTACCTCAGGACAG
20741 T T A TCAGCTTCCCACGTTGCATCTTTGTGCCTGTTGCTGGTACCTCAGGACAG
20741 IS [CT] GAAATCATGATGGACCGGGACTGGGAGTCTGTCCTGAGGTACCAGCAACAGGCACAAAGA[CT]GCAACGTGGGAAGC TGAGAAGGACCCCTCAGCGCACACTGACTGACTTGCCACACCAACA
25532 I A CAATCCACTGTCATCTACAGGTACAGACTTGCTATAGACTAGAGAAAAGA
25532 P C A ATGACGTGGCAGACCGCTAAGAGGAATATCAAGAAY
25532 P T A CGCGCCGAGGTGCTAAGAGGAATATCAAGAAGY
25532 T C A ATACCTTCTTGATATTCCTCTTAGCGCTTTTCTCTAGTCTATAGCAAGTCTGTACCTGTAGATGACAGTGGATTGCT
25532 T T A ATACCTTCTTGATATTCCTCTTAGCACTTTTCTCTAGTCTATAGCAAGTCTGTACCTGTAGATGACAGTGGATTGCT
25532 IS [CT] TAATATCTGAGCAATCCACTGTCATCTACAGGTACAGACTTGCTATAGACTAGAGAAAAG[CT]GCTAAGAGGAATATCA AGAAGGTATGCCTCAGCAACAGCTTTCAAGTTGTATAGAAGAGC
36310 I S GGTAGAGATGATGGTGAAACACTACAGACCCTTCCATTAAATGGT
36310 P T S CGCGCCGAGGAAGGTGAGTGCAGGCY
36310 P G S ATGACGTGGCAGACCAGGTGAGTGCAGGCY
36310 T T S CAGTGCCTGCACTCACCTTCCATTTAATGGAAGGGTCTGTAGTGTTTCACCATCATCTCTACCCT
36310 T G S CAGTGCCTGCACTCACCTGCCATTTAATGGAAGGGTCTGTAGTGTTTCACCATCATCTCTACCCT
36310 IS [TG] TAACTGAAGAAGAAGGGAGCCGTGATTTGGGTGGGCTGGGCCCAGTGCCTGCACTCACCT[TG]CCATTTAATGGAAG GGTCTGTAGTGTTTCACCATCATCTCTACCCTGTGACCTCCCTCTG
36698 I A GGCTTGCTGGGCCCCGATGAATGTTT
36698 P G A ATGACGTGGCAGACGCCCAGGGATACATGY
36698 P C A CGCGCCGAGGCCCCAGGGATACATGCY
36698 T G A CCAGGCATGTATCCCTGGGCAACATTCATCGGGGCCCAGCAAGCCCA
36698 T C A CCAGGCATGTATCCCTGGGGAACATTCATCGGGGCCCAGCAAGCCCA
36698 IS [GC] AATTCCCGGTGAGGGGAGCCACCCCCGACTTCCTGGGCTTGCTGGGCCCCGATGAATGTT[GC]CCCAGGGATACAT GCCTGGCCAGGCCCTGGACCCAGTCTAGGGATGTTGGGCAGCAGCAA
37278 I S GGCACATGCCAGGCTCTGTGCAGAC
37278 P C S ATGACGTGGCAGACGATTTGCAAACCCGAGAY
37278 P A S CGCGCCGAGGTATTTGCAAACCCGAGAGY
37278 T C S TCATCTCTCGGGTTTGCAAATCTCTGCACAGAGCCTGGCATGTGCCAA
37278 T A S TCATCTCTCGGGTTTGCAAATATCTGCACAGAGCCTGGCATGTGCCAA
37278 IS [CA] TCTTGGTCTGTTCTTCCTATAAGACTACAAGCTTCTAAGTCATCTCTCGGGTTTGCAAAT[CA]TCTGCACAGAGCCTGG CATGTGCCAAGCCCCCCAGGAGGGCTTGGGGATTGGCTGACTTT
39836 I A GGAATGGATTCTTCAGCATCCTCCCCAAACACCT
39836 P G A ATGACGTGGCAGACGGGAGGAAGAGGGAGY
39836 P C A CGCGCCGAGGCGGAGGAAGAGGGAGY
39836 T G A CAAGCTCCCTCTTCCTCCCGGTGTTTGGGGAGGATGCTGAAGAATCCATTCCCG
39836 T C A CAAGCTCCCTCTTCCTCCGGGTGTTTGGGGAGGATGCTGAAGAATCCATTCCCG
39836 IS [GC] GGGCTGGGACAAGCCGGGAGGCCCTCGGGAATGGATTCTTCAGCATCCTCCCCAAACACC[GC]GGAGGAAGAGGGA GCTTGGAATGGGGTCTCCCTCTCTATCTCGGTCCCCACCATGATGTG CBX8
43516 I S GGGGCCTCCAAGAGGCTGGGGTC
43516 P C S ATGACGTGGCAGACGGGGGAGTGGTGGY
43516 P A S CGCGCCGAGGTGGGGAGTGGTGGTY
43516 T C S CTTGACCACCACTCCCCCACCCCAGCCTCTTGGAGGCCCCAG
43516 T A S CTTGACCACCACTCCCCAACCCCAGCCTCTTGGAGGCCCCAG
43516 IS [CA] CTTAAATTCCACCGGGTATCACAGTGTCCTGAGTCACTGTCTGCTTGACCACCACTCCCC[CA]ACCCCAGCCTCTTGG AGGCCCCAGGAGAGGCACTGCTATTAATAGTAGGGGACCAATAGG
43548 I S AGGACAGCCCATCCCCTCATCCCTAGTT
43548 P G S CGCGCCGAGGCCCCCTTGGGAACGY
43548 P C S ATGACGTGGCAGACGCCCCTTGGGAACGY
43548 T G S GATACGTTCCCAAGGGGGACTAGGGATGAGGGGATGGGCTGTCCTCC
43548 T C S GATACGTTCCCAAGGGGCACTAGGGATGAGGGGATGGGCTGTCCTCC
43548 IS [GC] AACAAATGTCATTTTCTGCTCCAGGGACATGCTAGAATCTGCTGATACGTTCCCAAGGGG[GC]ACTAGGGATGAGGG GATGGGCTGTCCTCATCCATGGTCCAGGGAAGCCAGAGCACAGGA
44193 I S GGAGATATTCAGACCCATGCAATTACATACGCGAAGGGT
44193 P C S ATGACGTGGCAGACGGGCATGTCTTGGGAY
44193 P G S CGCGCCGAGGCGGCATGTCTTGGGAY
44193 T C S CTAATCCCAAGACATGCCCCCCTTCGCGTATGTAATTGCATGGGTCTGAATATCTCCCA
44193 T G S CTAATCCCAAGACATGCCGCCCTTCGCGTATGTAATTGCATGGGTCTGAATATCTCCCA
44193 IS [CG] GCGGAGATGTTCGCTGCAGAGACTTCCTTACTCATCCTCTTTCTAATCCCAAGACATGCC[CG]CCCTTCGCGTATGTA ATTGCATGGGTCTGAATATCTCCCAGTGTGATGGTCAAAACAAAG
44355 I S CGGAGCCTTGGAAGGTTAACCCGGCA
44355 P G S ATGACGTGGCAGACCGCGGCCTTGGAY
44355 P A S CGCGCCGAGGTGCGGCCTTGGAATY
44355 T G S GACGATTCCAAGGCCGCGGCCGGGTTAACCTTCCAAGGCTCCGGG
44355 T A S GACGATTCCAAGGCCGCAGCCGGGTTAACCTTCCAAGGCTCCGGG
44355 IS [GA] TTGAGGAGGCCCTGGACGGGGTGAGGGCTCCGGGTGCCGTCTAGACGATTCCAAGGCCGC[GA]GCCGGGTTAACCT TCCAAGGCTCCGGGGGCAAAGCCAAGGTGGCGAAGGGGGACAGGCCA
44434 I S CCAGACCCCTAAATTCTCCTCCTCCCCCATTTTGT
44434 P T S CGCGCCGAGGATGTTAAGGTGGAGAGGGY
44434 P C S ATGACGTGGCAGACGTGTTAAGGTGGAGAGGGY
44434 T T S TATGCCCTCTCCACCTTAACATCAAAATGGGGGAGGAGGAGAATTTAGGGGTCTGGGT
44434 T C S TATGCCCTCTCCACCTTAACACCAAAATGGGGGAGGAGGAGAATTTAGGGGTCTGGGT
44434 IS [TC] CCCTCAGCTATAGACACCTAGATCAGGACAGAGGATGCATATGCCCTCTCCACCTTAACA[TC]CAAAATGGGGGAGGA GGAGAATTTAGGGGTCTGGGTCCCTAAGAGATATTAGGACATCTC NDRG2

FIGURE 129D

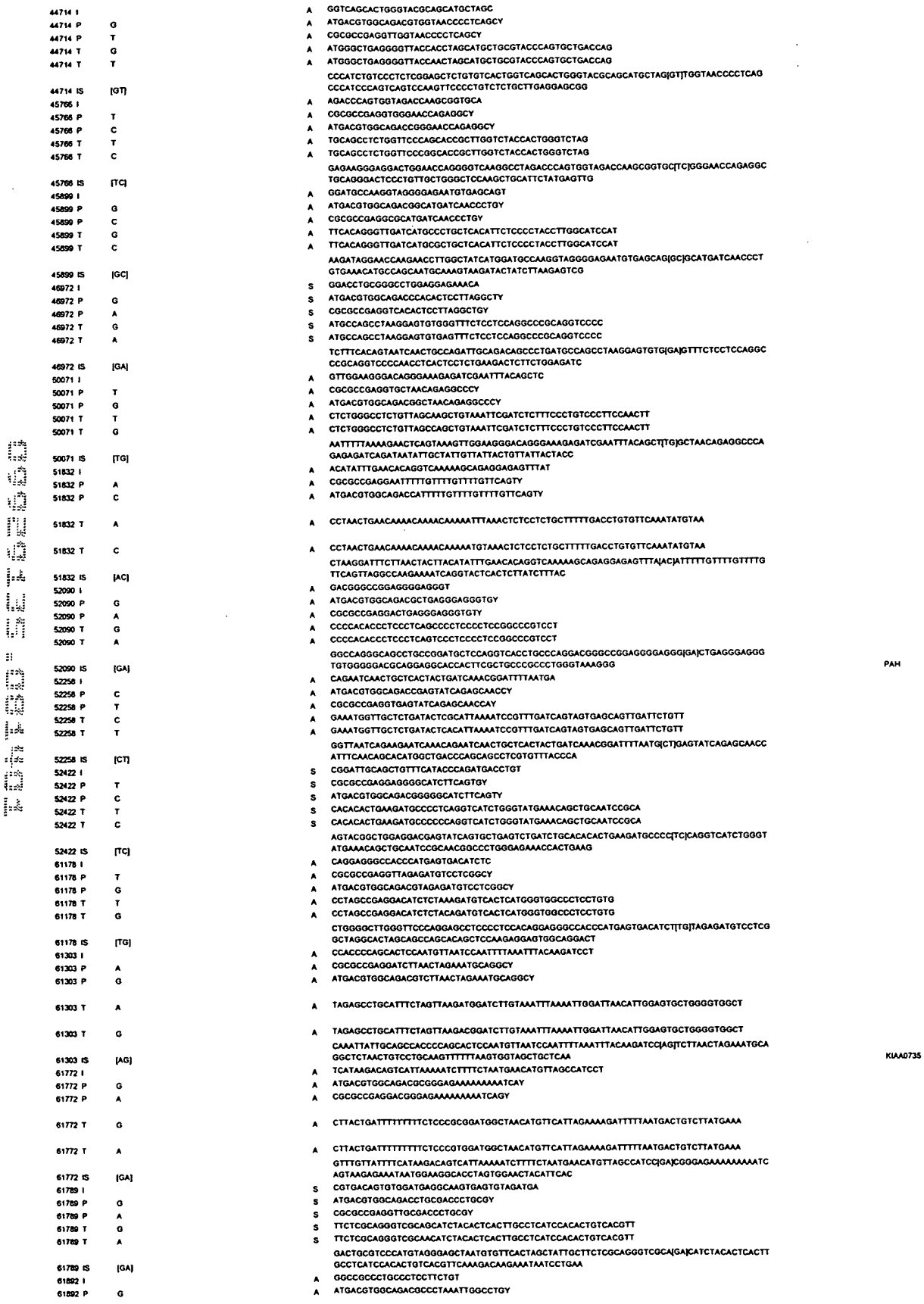
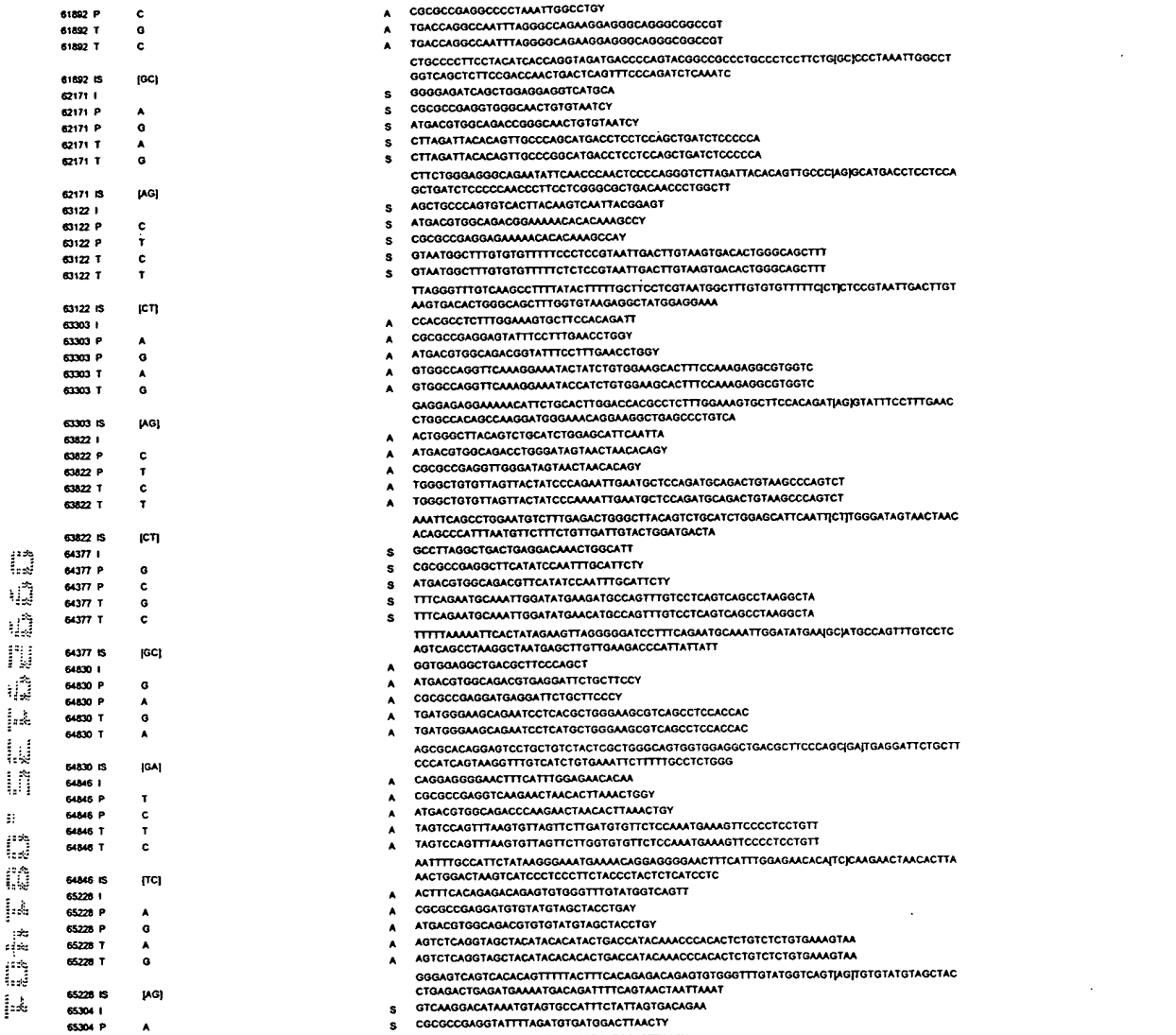

44714 I A GGTCAGCACTGGGTACGCAGCATGCTAGC
44714 P G A ATGACGTGGCAGACGTGGTAACCCCTCAGCY
44714 P T A CGCGCCGAGGTTGGTAACCCCTCAGCY
44714 T G A ATGGGCTGAGGGGTTACCACCTAGCATGCTGCGTACCCAGTGCTGACCAG
44714 T T A ATGGGCTGAGGGGTTACCAACTAGCATGCTGCGTACCCAGTGCTGACCAG
44714 IS [GT] CCCATCTGTCCCTCTCGGAGCTCTGTGTCACTGGTCAGCACTGGGTACGCAGCATGCTAG[GT]TGGTAACCCCTCAG CCCATCCCAGTCAGTCCAAGTTCCCCTGTCTCTGCTTGAGGAGCGG
45766 I A AGACCCAGTGGTAGACCAAGCGGTGCA
45766 P T A CGCGCCGAGGTGGGAACCAGAGGCY
45766 P C A ATGACGTGGCAGACCGGGAACCAGAGGCY
45766 T T A TGCAGCCTCTGGTTCCCAGCACCGCTTGGTCTACCACTGGGTCTAG
45766 T C A TGCAGCCTCTGGTTCCCGGCACCGCTTGGTCTACCACTGGGTCTAG
45766 IS [TC] GAGAAGGGAGGACTGGAACCAGGGGTCAAGGCCTAGACCCAGTGGTAGACCAAGCGGTGC[TC]GGGAACCAGAGGC TGCAGGGACTCCCTGTTGCTGGGCTCCAAGCTGCATTCTATGAGTTG
45899 I A GGATGCCAAGGTAGGGGAGAATGTGAGCAGT
45899 P G A ATGACGTGGCAGACGGCATGATCAACCCTGY
45899 P C A CGCGCCGAGGCGCATGATCAACCCTGY
45899 T G A TTCACAGGGTTGATCATGCCCTGCTCACATTCTCCCCTACCTTGGCATCCAT
45899 T C A TTCACAGGGTTGATCATGCGCTGCTCACATTCTCCCCTACCTTGGCATCCAT
45899 IS [GC] AAGATAGGAACCAAGAACCTTGGCTATCATGGATGCCAAGGTAGGGGAGAATGTGAGCAG[GC]GCATGATCAACCCT GTGAAACATGCCAGCAATGCAAAGTAAGATACTATCTTAAGAGTCG
46972 I S GGACCTGCGGGCCTGGAGGAGAAACA
46972 P G S ATGACGTGGCAGACCCACACTCCTTAGGCTY
46972 P A S CGCGCCGAGGTCACACTCCTTAGGCTGY
46972 T G S ATGCCAGCCTAAGGAGTGTGGGTTTCTCCTCCAGGCCCGCAGGTCCCC
46972 T A S ATGCCAGCCTAAGGAGTGTGAGTTTCTCCTCCAGGCCCGCAGGTCCCC
46972 IS [GA] TCTTTCACAGTAATCAACTGCCAGATTGCAGACAGCCCTGATGCCAGCCTAAGGAGTGTG[GA]GTTTCTCCTCCAGGC CCGCAGGTCCCCAACCTCACTCCTCTGAAGACTCTTCTGGAGATC
50071 I A GTTGGAAGGGACAGGGAAAGAGATCGAATTTACAGCTC
50071 P T A CGCGCCGAGGTGCTAACAGAGGCCCY
50071 P G A ATGACGTGGCAGACGGCTAACAGAGGCCCY
50071 T T A CTCTGGGCCTCTGTTAGCAAGCTGTAAATTCGATCTCTTTCCCTGTCCCTTCCAACTT
50071 T G A CTCTGGGCCTCTGTTAGCCAGCTGTAAATTCGATCTCTTTCCCTGTCCCTTCCAACTT
50071 IS [TG] AATTTTTAAAAGAACTCAGTAAAGTTGGAAGGGACAGGGAAAGAGATCGAATTTACAGCT[TG]GCTAACAGAGGCCCA GAGAGATCAGATAATATTGCTATTGTTATTACTGTTATTACTACC
51832 I A ACATATTTGAACACAGGTCAAAAAGCAGAGGAGAGTTTAT
51832 P A A CGCGCCGAGGAATTTTTGTTTTGTTTTGTTCAGTY
51832 P C A ATGACGTGGCAGACCATTTTTGTTTTGTTTTGTTCAGTY
51832 T A A CCTAACTGAACAAAACAAAACAAAAATTTAAACTCTCCTCTGCTTTTTGACCTGTGTTCAAATATGTAA
51832 T C A CCTAACTGAACAAAACAAAACAAAAATGTAAACTCTCCTCTGCTTTTTGACCTGTGTTCAAATATGTAA
51832 IS [AC] CTAAGGATTTCTTAACTACTTACATATTTGAACACAGGTCAAAAAGCAGAGGAGAGTTTA[AC]ATTTTTGTTTTGTTTTG TTCAGTTAGGCCAAGAAAATCAGGTACTCACTCTTATCTTTAC
52090 I A GACGGGCCGGAGGGGAGGGT
52090 P G A ATGACGTGGCAGACGCTGAGGGAGGGTGY
52090 P A A CGCGCCGAGGACTGAGGGAGGGTGTY
52090 T G A CCCCACACCCTCCCTCAGCCCCTCCCCTCCGGCCCGTCCT
52090 T A A CCCCACACCCTCCCTCAGTCCCTCCCCTCCGGCCCGTCCT
52090 IS [GA] GGCCAGGGCAGCCTGCCGGATGCTCCAGGTCACCTGCCCAGGACGGGCCGGAGGGGAGGG[GA]CTGAGGGAGGG TGTGGGGGACGCAGGAGGCACCACTTCGCTGCCCGCCCTGGGTAAAGGG
52256 I A CAGAATCAACTGCTCACTACTGATCAAACGGATTTTAATGA
52258 P C A ATGACGTGGCAGACCGAGTATCAGAGCAACCY
52258 P T A CGCGCCGAGGTGAGTATCAGAGCAACCAY
52258 T C A GAAATGGTTGCTCTGATACTCGCATTAAAATCCGTTTGATCAGTAGTGAGCAGTTGATTCTGTT
52258 T T A GAAATGGTTGCTCTGATACTCACATTAAAATCCGTTTGATCAGTAGTGAGCAGTTGATTCTGTT
52258 IS [CT] GGTTAATCAGAAGAATCAAACAGAATCAACTGCTCACTACTGATCAAACGGATTTTAATG[CT]GAGTATCAGAGCAACC ATTTCAACAGCACATGGCTGACCCAGCAGCCTCGTGTTTACCCA
52422 I S CGGATTGCAGCTGTTTCATACCCAGATGACCTGT
52422 P T S CGCGCCGAGGAGGGGCATCTTCAGTGY
52422 P C S ATGACGTGGCAGACGGGGGCATCTTCAGTY
52422 T T S CACACACTGAAGATGCCCCTCAGGTCATCTGGGTATGAAACAGCTGCAATCCGCA
52422 T C S CACACACTGAAGATGCCCCCCAGGTCATCTGGGTATGAAACAGCTGCAATCCGCA
52422 IS [TC] AGTACGGCTGGAGGACGAGTATCAGTGCTGAGTCTGATCTGCACACACTGAAGATGCCCC[TC]CAGGTCATCTGGGT ATGAAACAGCTGCAATCCGCAACGGCCCTGGGAGAAACCACTGAAG
61178 I A CAGGAGGGCCACCCATGAGTGACATCTC
61178 P T A CGCGCCGAGGTTAGAGATGTCCTCGGCY
61178 P G A ATGACGTGGCAGACGTAGAGATGTCCTCGGCY
61178 T T A CCTAGCCGAGGACATCTCTAAAGATGTCACTCATGGGTGGCCCTCCTGTG
61178 T G A CCTAGCCGAGGACATCTCTACAGATGTCACTCATGGGTGGCCCTCCTGTG
61178 IS [TG] CTGGGGCTTGGGTTCCCAGGAGCCTCCCCTCCACAGGAGGGCCACCCATGAGTGACATCT[TG]TAGAGATGTCCTCG GCTAGGCACTAGCAGCCAGCACAGCTCCAAGAGGAGTGGCAGGACT
61303 I A CCACCCCAGCACTCCAATGTTAATCCAATTTTAAATTTACAAGATCCT
61303 P A A CGCGCCGAGGATCTTAACTAGAAATGCAGGCY
61303 P G A ATGACGTGGCAGACGTCTTAACTAGAAATGCAGGCY
61303 T A A TAGAGCCTGCATTTCTAGTTAAGATGGATCTTGTAAATTTAAAATTGGATTAACATTGGAGTGCTGGGGTGGCT
61303 T G A TAGAGCCTGCATTTCTAGTTAAGACGGATCTTGTAAATTTAAAATTGGATTAACATTGGAGTGCTGGGGTGGCT
61303 IS [AG] CAAATTATTGCAGCCACCCCAGCACTCCAATGTTAATCCAATTTTAAATTTACAAGATCC[AG]TCTTAACTAGAAATGCA GGCTCTAACTGTCCTGCAAGTTTTTTAAGTGGTAGCTGCTCAA
61772 I A TCATAAGACAGTCATTAAAAATCTTTTCTAATGAACATGTTAGCCATCCT
61772 P G A ATGACGTGGCAGACGCGGGAGAAAAAAAAATCAY
61772 P A A CGCGCCGAGGACGGGAGAAAAAAAAATCAGY
61772 T G A CTTACTGATTTTTTTTTCTCCCGCGGATGGCTAACATGTTCATTAGAAAAGATTTTTAATGACTGTCTTATGAAA
61772 T A A CTTACTGATTTTTTTTTCTCCCGTGGATGGCTAACATGTTCATTAGAAAAGATTTTTAATGACTGTCTTATGAAA
61772 IS [GA] GTTTGTTATTTTCATAAGACAGTCATTAAAAATCTTTTCTAATGAACATGTTAGCCATCC[GA]CGGGAGAAAAAAAAATC AGTAAGAGAAATAATGGAAGGCACCTAGTGGAACTACATTCAC
61789 I S CGTGACAGTGTGGATGAGGCAAGTGAGTGTAGATGA
61789 P G S ATGACGTGGCAGACCTGCGACCCTGCGY
61789 P A S CGCGCCGAGGTTGCGACCCTGCGY
61789 T G S TTCTCGCAGGGTCGCAGCATCTACACTCACTTGCCTCATCCACACTGTCACGTT
61789 T A S TTCTCGCAGGGTCGCAACATCTACACTCACTTGCCTCATCCACACTGTCACGTT
61789 IS [GA] GACTGCGTCCCATGTAGGGAGCTAATGTGTTCACTAGCTATTGCTTCTCGCAGGGTCGCA[GA]CATCTACACTCACTT GCCTCATCCACACTGTCACGTTCAAAGACAAGAAATAATCCTGAA
61892 I A GGCCGCCCTGCCCTCCTTCTGT
61892 P G A ATGACGTGGCAGACGCCCTAAATTGGCCTGY
PAH
KIAA0735

FIGURE 129D



SH38GRL2

FIGURE 129D

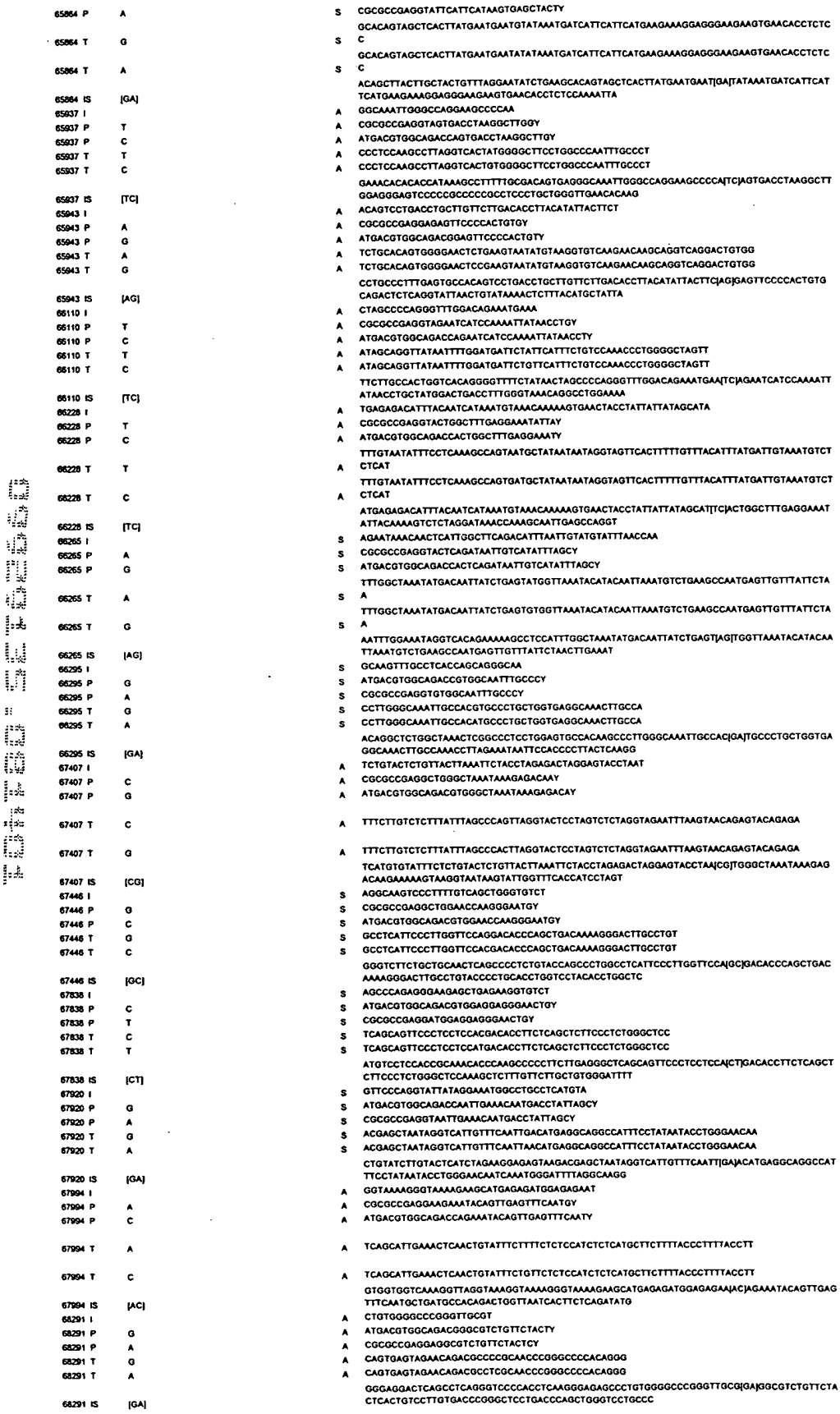
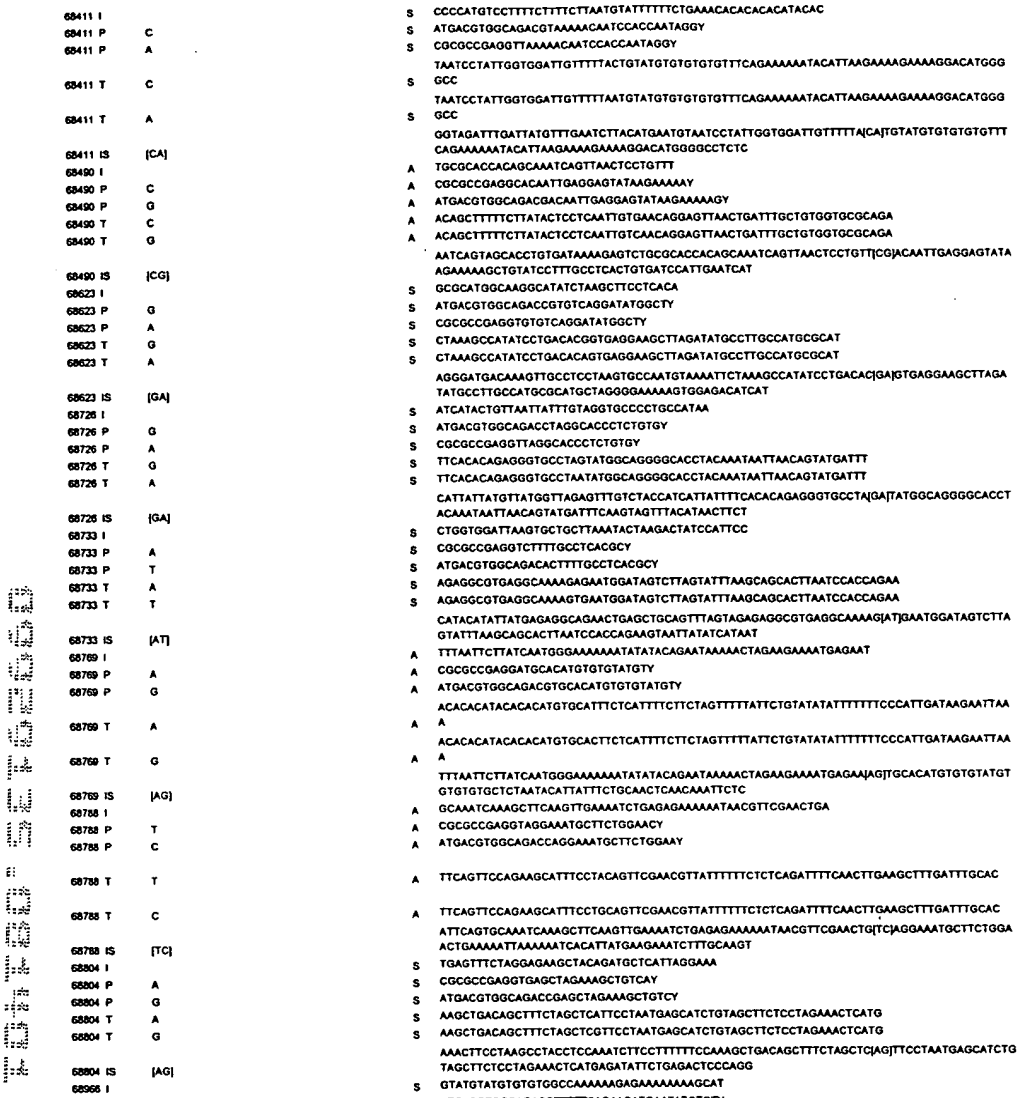
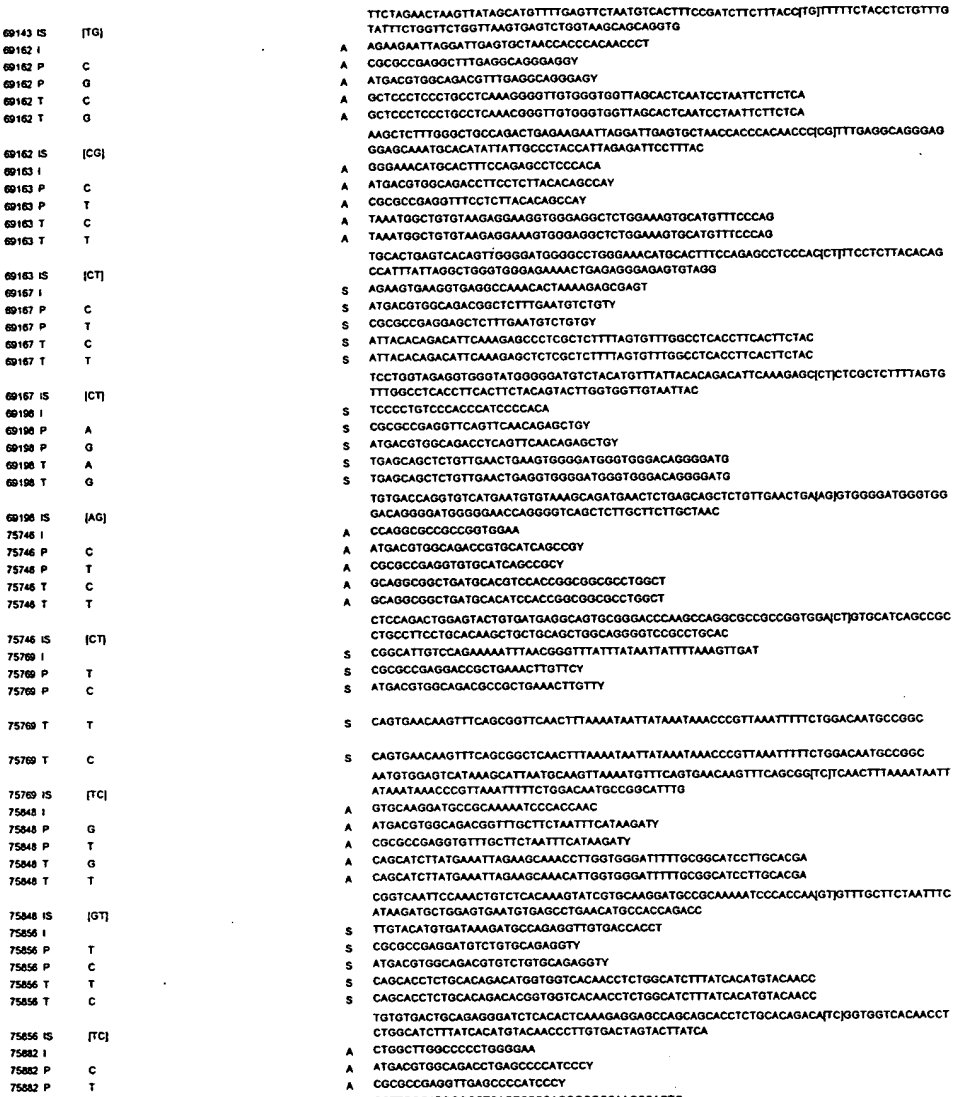


FIGURE 129D



GGT1

FIGURE 129D



Redacted pursuant to the Freedom of Information Act

FIGURE 129D

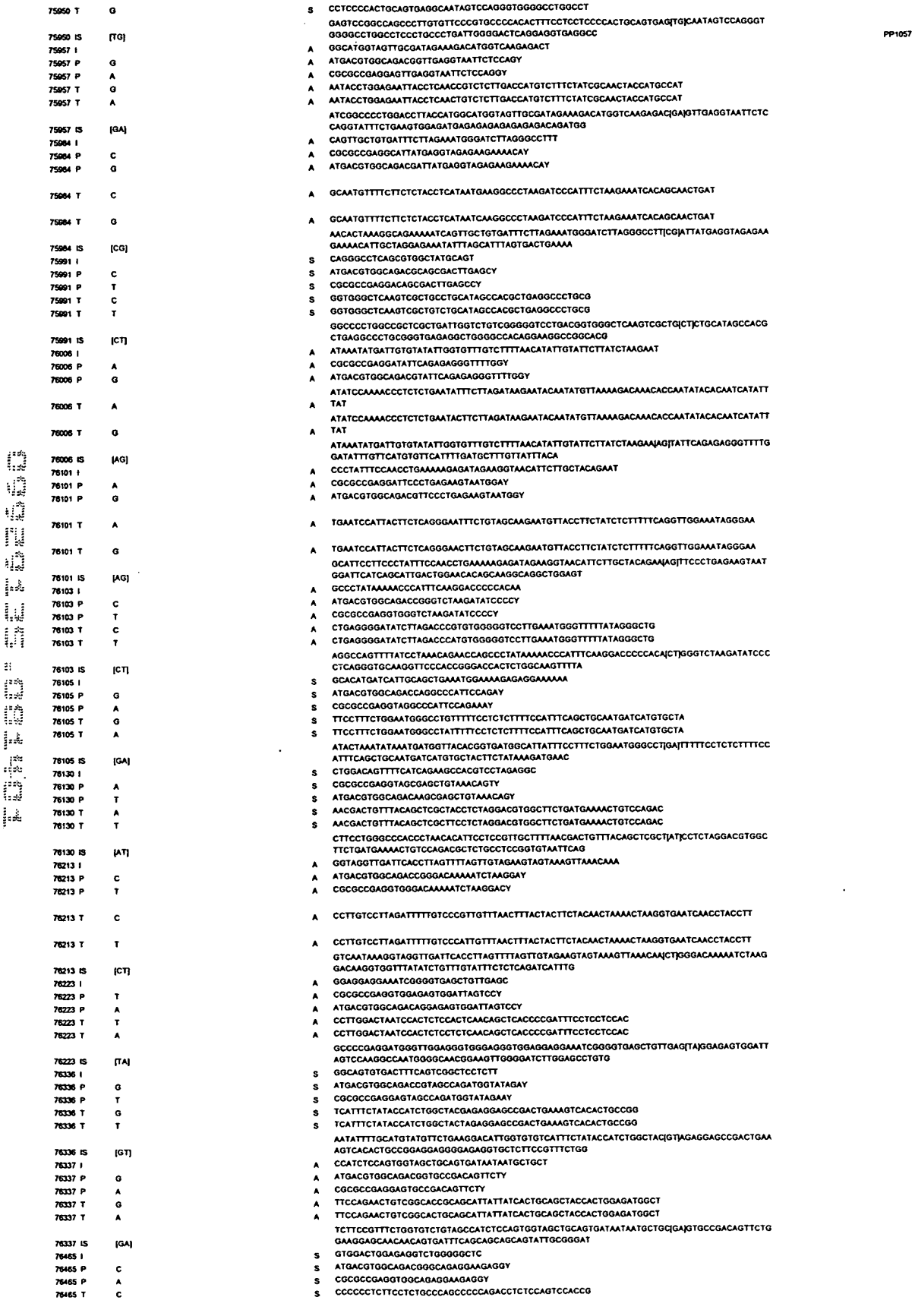

75950 T G S CCTCCCCACTGCAGTGAGGCAATAGTCCAGGGTGGGGCCTGGCCT
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75950 IS [TG] GGGGCCTGGCCTCCCTGCCCTGATTGGGGACTCAGGAGGTGAGGCC PP1057
75957 I A GGCATGGTAGTTGCGATAGAAAGACATGGTCAAGAGACT
75957 P G A ATGACGTGGCAGACGGTTGAGGTAATTCTCCAGGY
75957 P A A CGCGCCGAGGAGTTGAGGTAATTCTCCAGGY
75957 T G A AATACCTGGAGAATTACCTCAACCGTCTCTTGACCATGTCTTTCTATCGCAACTACCATGCCAT
75957 T A A AATACCTGGAGAATTACCTCAACTGTCTCTTGACCATGTCTTTCTATCGCAACTACCATGCCAT
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75957 IS [GA] CAGGTATTTCTGAAGTGGAGATGAGAGAGAGAGAGACAGATGG
75984 I A CAGTTGCTGTGATTTCTTAGAAATGGGATCTTAGGGCCTTT
75984 P C A CGCGCCGAGGCATTATGAGGTAGAGAAGAAAACAY
75984 P G A ATGACGTGGCAGACGATTATGAGGTAGAGAAGAAAACAY
75984 T C A GCAATGTTTTCTTCTCTACCTCATAATGAAGGCCCTAAGATCCCATTTCTAAGAAATCACAGCAACTGAT
75984 T G A GCAATGTTTTCTTCTCTACCTCATAATCAAGGCCCTAAGATCCCATTTCTAAGAAATCACAGCAACTGAT
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75984 IS [CG] GAAAACATTGCTAGGAGAAATATTTAGCATTTAGTGACTGAAAA
75991 I S CAGGGCCTCAGCGTGGCTATGCAGT
75991 P C S ATGACGTGGCAGACGCAGCGACTTGAGCY
75991 P T S CGCGCCGAGGACAGCGACTTGAGCCY
75991 T C S GGTGGGCTCAAGTCGCTGCCTGCATAGCCACGCTGAGGCCCTGCG
75991 T T S GGTGGGCTCAAGTCGCTGTCTGCATAGCCACGCTGAGGCCCTGCG
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75991 IS [CT] CTGAGGCCCTGCGGGTGAGAGGCTGGGGCCACAGGAAGGCCGGCACG
76006 I A ATAAATATGATTGTGTATATTGGTGTTTGTCTTTTAACATATTGTATTCTTATCTAAGAA
76006 P A A CGCGCCGAGGATATTCAGAGAGGGTTTTGGY
76006 P G A ATGACGTGGCAGACGTATTCAGAGAGGGTTTTGGY
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76006 T A A TAT
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76006 T G A TAT
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76006 IS [AG] GATATTTGTTCATGTGTTCATTTTGATGCTTTGTTATTTACA
76101 I A CCCTATTTCCAACCTGAAAAAGAGATAGAAGGTAACATTCTTGCTACAGAAT
76101 P A A CGCGCCGAGGATTCCCTGAGAAGTAATGGAY
76101 P G A ATGACGTGGCAGACGTTCCCTGAGAAGTAATGGY
76101 T A A TGAATCCATTACTTCTCAGGGAATTTCTGTAGCAAGAATGTTACCTTCTATCTCTTTTTCAGGTTGGAAATAGGGAA
76101 T G A TGAATCCATTACTTCTCAGGGAACTTCTGTAGCAAGAATGTTACCTTCTATCTCTTTTTCAGGTTGGAAATAGGGAA
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76101 IS [AG] GGATTCATCAGCATTGACTGGAACACAGCAAGGCAGGCTGGAGT
76103 I A GCCCTATAAAAACCCATTTCAAGGACCCCCACAA
76103 P C A ATGACGTGGCAGACCGGGTCTAAGATATCCCCY
76103 P T A CGCGCCGAGGTGGGTCTAAGATATCCCCY
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76105 I S GCACATGATCATTGCAGCTGAAATGGAAAAGAGAGGAAAAAA
76105 P G S ATGACGTGGCAGACCAGGCCCATTCCAGAY
76105 P A S CGCGCCGAGGTAGGCCCATTCCAGAAAY
76105 T G S TTCCTTTCTGGAATGGGCCTGTTTTTCCTCTCTTTTCCATTTCAGCTGCAATGATCATGTGCTA
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76130 P A S CGCGCCGAGGTAGCGAGCTGTAAACAGTY
76130 P T S ATGACGTGGCAGACAAGCGAGCTGTAAACAGY
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76130 T T S AACGACTGTTTACAGCTCGCTTCCTCTAGGACGTGGCTTCTGATGAAAACTGTCCAGAC
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76213 I A GGTAGGTTGATTCACCTTAGTTTTAGTTGTAGAAGTAGTAAAGTTAAACAAA
76213 P C A ATGACGTGGCAGACCGGGACAAAAATCTAAGGAY
76213 P T A CGCGCCGAGGTGGGACAAAAATCTAAGGACY
76213 T C A CCTTGTCCTTAGATTTTTGTCCCGTTGTTTAACTTTACTACTTCTACAACTAAAACTAAGGTGAATCAACCTACCTT
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76336 P G S ATGACGTGGCAGACCGTAGCCAGATGGTATAGAY
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76337 P G A ATGACGTGGCAGACGGTGCCGACAGTTCTY
76337 P A A CGCGCCGAGGAGTGCCGACAGTTCTY
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76465 I S GTGGACTGGAGAGGTCTGGGGGCTC
76465 P C S ATGACGTGGCAGACGGGCAGAGGAAGAGGY
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76465 T C S CCCCCCTCTTCCTCTGCCCAGCCCCCAGACCTCTCCAGTCCACCG

FIGURE 129D

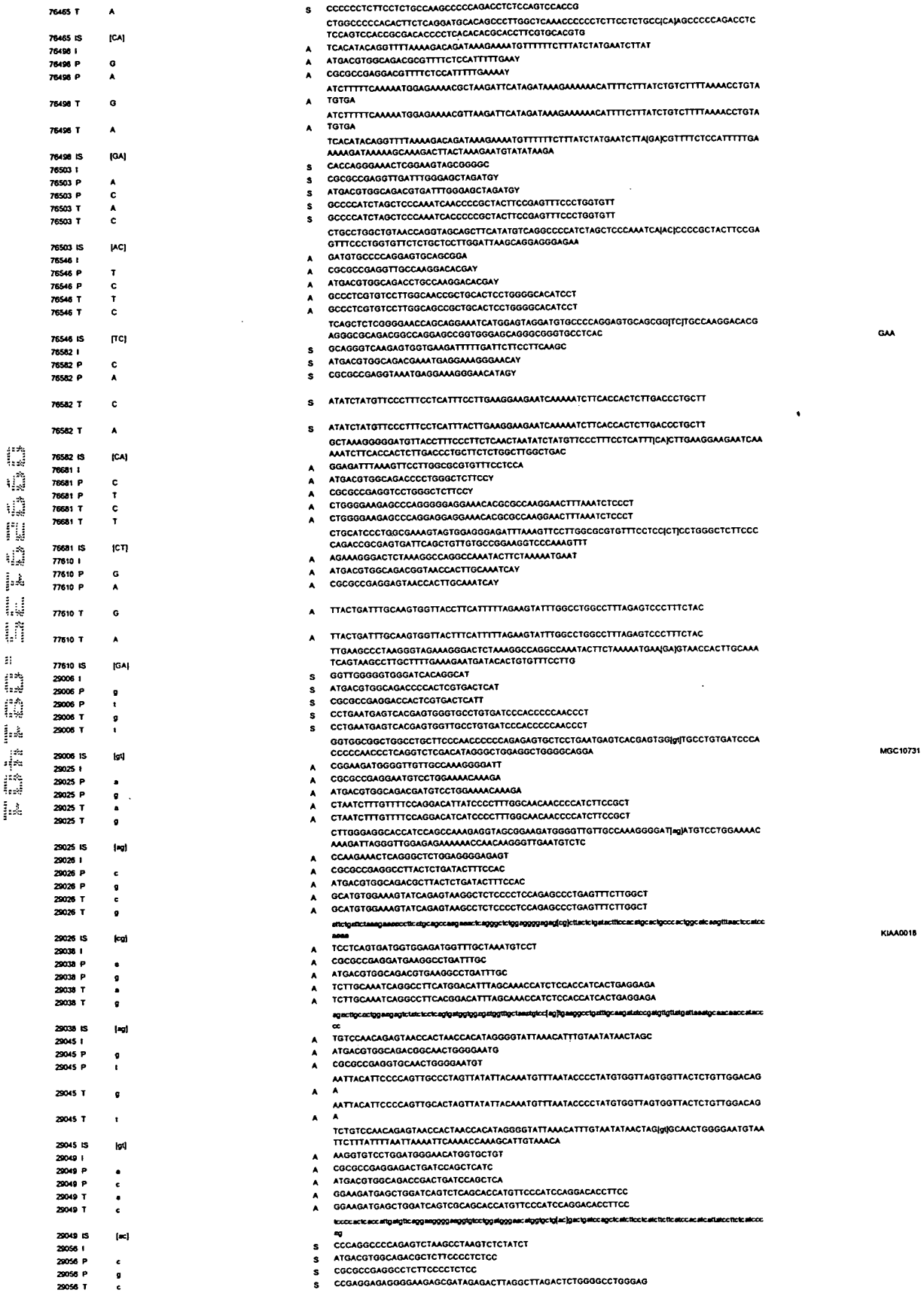

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76498 P G A ATGACGTGGCAGACGCGTTTTCTCCATTTTTGAAY
76498 P A A CGCGCCGAGGACGTTTTCTCCATTTTTGAAAAY
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76503 I S CACCAGGGAAACTCGGAAGTAGCGGGGC
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76503 T C S GCCCCATCTAGCTCCCAAATCACCCCCGCTACTTCCGAGTTTCCCTGGTGTT
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76503 IS [AC] GTTTCCCTGGTGTTCTCTGCTCCTTGGATTAAGCAGGAGGGAGAA
76546 I A GATGTGCCCCAGGAGTGCAGCGGA
76546 P T A CGCGCCGAGGTTGCCAAGGACACGAY
76546 P C A ATGACGTGGCAGACCTGCCAAGGACACGAY
76546 T T A GCCCTCGTGTCCTTGGCAACCGCTGCACTCCTGGGGCACATCCT
76546 T C A GCCCTCGTGTCCTTGGCAGCCGCTGCACTCCTGGGGCACATCCT
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76582 P A S CGCGCCGAGGTAAATGAGGAAAGGGAACATAGY
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76582 IS [CA] AAATCTTCACCACTCTTGACCCTGCTTCTCTGGCTTGGCTGAC
76681 I A GGAGATTTAAAGTTCCTTGGCGCGTGTTTCCTCCA
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76681 T C A CTGGGGAAGAGCCCCAGGGGGAGGAAACACGCGCCAAGGAACTTTAAATCTCCCT
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76681 IS [CT] CAGACCGCGAGTGATTCAGCTGTTGTGCCGGAAGGTCCCAAAGTTT
77610 I A AGAAAGGGACTCTAAAGGCCAGGCCAAATACTTCTAAAAATGAAT
77610 P G A ATGACGTGGCAGACGGTAACCACTTGCAAATCAY
77610 P A A CGCGCCGAGGAGTAACCACTTGCAAATCAY
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77610 T A A TTACTGATTTGCAAGTGGTTACTTTCATTTTTAGAAGTATTTGGCCTGGCCTTTAGAGTCCCTTTCTAC
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29006 I S GGTTGGGGGTGGGATCACAGGCAT
29006 P g S ATGACGTGGCAGACCCCACTCGTGACTCAT
29006 P t S CGCGCCGAGGACCACTCGTGACTCATT
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29006 T t S CCTGAATGAGTCACGAGTGGTTGCCTGTGATCCCACCCCCAACCCT
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29025 I A CGGAAGATGGGGTTGTTGCCAAAGGGGATT
29025 P a A CGCGCCGAGGAATGTCCTGGAAAACAAAGA
29025 P g A ATGACGTGGCAGACGATGTCCTGGAAAACAAAGA
29025 T a A CTAATCTTTGTTTTCCAGGACATTATCCCCTTTGGCAACAACCCCATCTTCCGCT
29025 T g A CTAATCTTTGTTTTCCAGGACATCATCCCCTTTGGCAACAACCCCATCTTCCGCT
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29025 IS [ag] AAAGATTAGGGTTGGAGAGAAAAAACCAACAAGGGTTGAATGTCTC
29026 I A CCAAGAAACTCAGGGCTCTGGAGGGGAGAGT
29026 P c A CGCGCCGAGGCCTTACTCTGATACTTTCCAC
29026 P g A ATGACGTGGCAGACGCTTACTCTGATACTTTCCAC
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29026 IS [cg] aaaa KIAA0018
29038 I A TCCTCAGTGATGGTGGAGATGGTTTGCTAAATGTCCT
29038 P a A CGCGCCGAGGATGAAGGCCTGATTTGC
29038 P g A ATGACGTGGCAGACGTGAAGGCCTGATTTGC
29038 T a A TCTTGCAAATCAGGCCTTCATGGACATTTAGCAAACCATCTCCACCATCACTGAGGAGA
29038 T g A TCTTGCAAATCAGGCCTTCACGGACATTTAGCAAACCATCTCCACCATCACTGAGGAGA
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29038 IS [ag] cc
29045 I A TGTCCAACAGAGTAACCACTAACCACATAGGGGTATTAAACATTTGTAATATAACTAGC
29045 P g A ATGACGTGGCAGACGGCAACTGGGGAATG
29045 P t A CGCGCCGAGGTGCAACTGGGGAATGT
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29049 I A AAGGTGTCCTGGATGGGAACATGGTGCTGT
29049 P a A CGCGCCGAGGAGACTGATCCAGCTCATC
29049 P c A ATGACGTGGCAGACCGACTGATCCAGCTCA
29049 T a A GGAAGATGAGCTGGATCAGTCTCAGCACCATGTTCCCATCCAGGACACCTTCC
29049 T c A GGAAGATGAGCTGGATCAGTCGCAGCACCATGTTCCCATCCAGGACACCTTCC
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29049 IS [ac] ag
29056 I S CCCAGGCCCCAGAGTCTAAGCCTAAGTCTCTATCT
29056 P c S ATGACGTGGCAGACGCTCTTCCCCTCTCC
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29056 T c S CCGAGGAGAGGGGAAGAGCGATAGAGACTTAGGCTTAGACTCTGGGGCCTGGGAG

FIGURE 129D

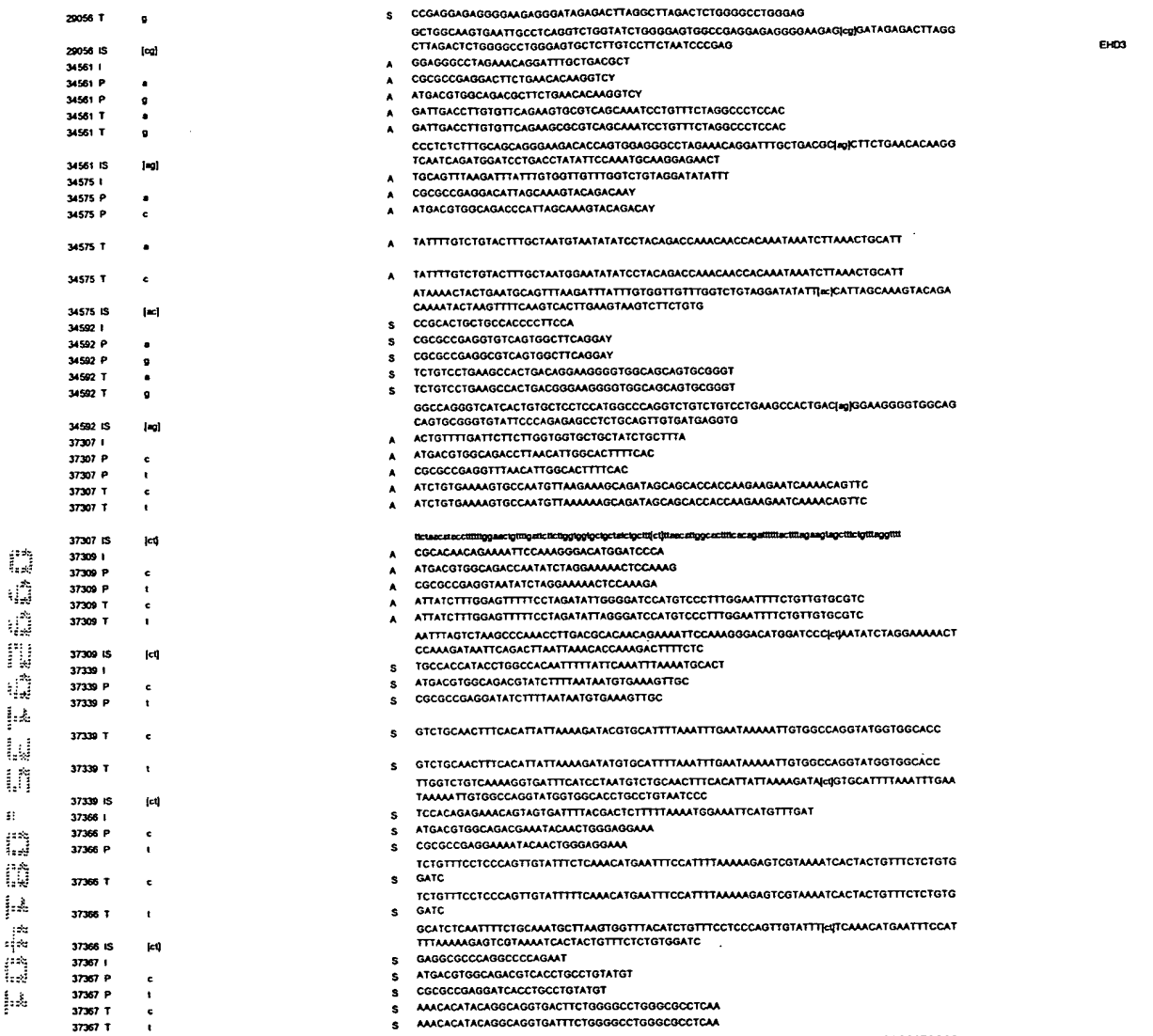


FIGURE 129D

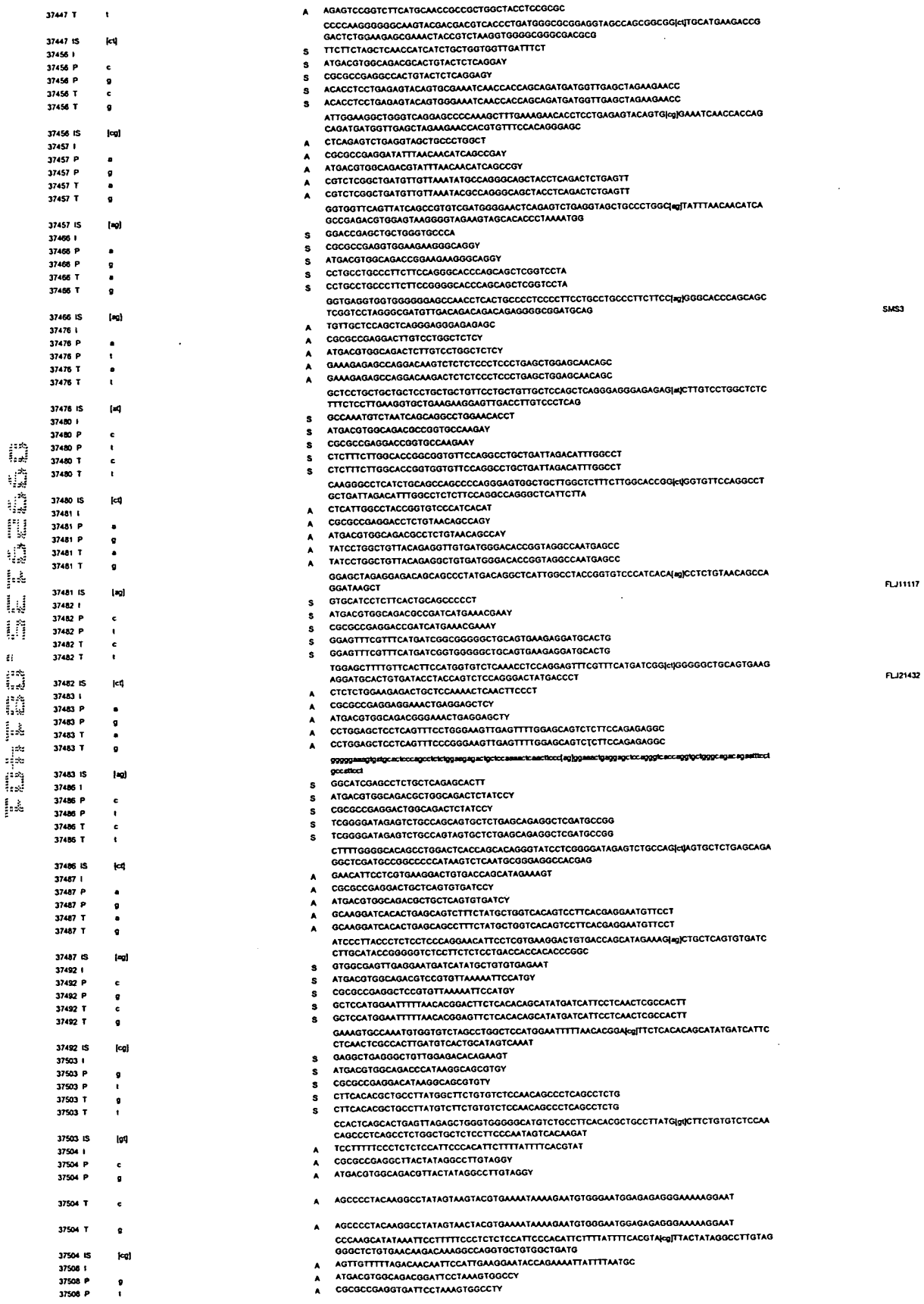

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S CTCTTTCTTGGCACCGGTGGTGTTCCAGGCCTGCTGATTAGACATTTGGCCT
CAAGGGCCTCATCTGCAGCCAGCCCCAGGGAGTGGCTGCTTGGCTCTTTCTTGGCACCGG[ct]GGTGTTCCAGGCCT
GCTGATTAGACATTTGGCCTCTCTTCCAGGCCAGGGCTCATTCTTA
A CTCATTGGCCTACCGGTGTCCCATCACAT
A CGCGCCGAGGACCTCTGTAACAGCCAGY
A ATGACGTGGCAGACGCCTCTGTAACAGCCAY
A TATCCTGGCTGTTACAGAGGTTGTGATGGGACACCGGTAGGCCAATGAGCC
A TATCCTGGCTGTTACAGAGGCTGTGATGGGACACCGGTAGGCCAATGAGCC
GGAGCTAGAGGAGACAGCAGCCCTATGACAGGCTCATTGGCCTACCGGTGTCCCATCACA[ag]CCTCTGTAACAGCCA
GGATAAGCT
FLJ11117
S GTGCATCCTCTTCACTGCAGCCCCCT
S ATGACGTGGCAGACGCCGATCATGAAACGAAY
S CGCGCCGAGGACCGATCATGAAACGAAAY
S GGAGTTTCGTTTCATGATCGGCGGGGGCTGCAGTGAAGAGGATGCACTG
S GGAGTTTCGTTTCATGATCGGTGGGGGGCTGCAGTGAAGAGGATGCACTG
TGGAGCTTTTGTTCACTTCCATGGTGTCTCAAACCTCCAGGAGTTTCGTTTCATGATCGG[ct]GGGGGCTGCAGTGAAG
AGGATGCACTGTGATACCTACCAGTCTCCAGGGACTATGACCCT
FLJ21432
A CTCTCTGGAAGAGACTGCTCCAAAACTCAACTTCCCT
A CGCGCCGAGGAGGAAACTGAGGAGCTCY
A ATGACGTGGCAGACGGGAAACTGAGGAGCTY
A CCTGGAGCTCCTCAGTTTCCTGGGAAGTTGAGTTTTGGAGCAGTCTCTTCCAGAGAGGC
A CCTGGAGCTCCTCAGTTTCCCGGGAAGTTGAGTTTTGGAGCAGTCTCTTCCAGAGAGGC
ggggggaaagtgatgcactcccagcctctctgggaagagactgctccaaaactcaacttccc[ag]ggaaactgaggagctcc agggtctcaccagggtgctgggcagacagaatttcct
gcctttcct
S GGCATCGAGCCTCTGCTCAGAGCACTT
S ATGACGTGGCAGACGCTGGCAGACTCTATCCY
S CGCGCCGAGGACTGGCAGACTCTATCCY
S TCGGGGATAGAGTCTGCCAGCAGTGCTCTGAGCAGAGGCTCGATGCCGG
S TCGGGGATAGAGTCTGCCAGTAGTGCTCTGAGCAGAGGCTCGATGCCGG
CTTTTGGGGCACAGCCTGGACTCACCAGCACAGGGTATCCTCGGGGATAGAGTCTGCCAG[ct]AGTGCTCTGAGCAGA
GGCTCGATGCCGGCCCCCATAAGTCTCAATGCGGGAGGCCACGAG
A GAACATTCCTCGTGAAGGACTGTGACCAGCATAGAAAGT
A CGCGCCGAGGACTGCTCAGTGTGATCCY
A ATGACGTGGCAGACGCTGCTCAGTGTGATCY
A GCAAGGATCACACTGAGCAGTCTTTCTATGCTGGTCACAGTCCTTCACGAGGAATGTTCCT
A GCAAGGATCACACTGAGCAGCCTTTCTATGCTGGTCACAGTCCTTCACGAGGAATGTTCCT
ATCCCTTACCCTCTCCTCCCAGGAACATTCCTCGTGAAGGACTGTGACCAGCATAGAAAG[ag]CTGCTCAGTGTGATC
CTTGCATACCGGGGGGTCTCCTTCTCTCCTGACCACCACACCCGGC
S GTGGCGAGTTGAGGAATGATCATATGCTGTGTGAGAAT
S ATGACGTGGCAGACGTCCGTGTTAAAAATTCCATGY
S CGCGCCGAGGCTCCGTGTTAAAAATTCCATGY
S GCTCCATGGAATTTTTAACACGGACTTCTCACACAGCATATGATCATTCCTCAACTCGCCACTT
S GCTCCATGGAATTTTTAACACGGAGTTCTCACACAGCATATGATCATTCCTCAACTCGCCACTT
GAAAGTGCCAAATGTGGTGTCTAGCCTGGCTCCATGGAATTTTTAACACGGA[cg]TTCTCACACAGCATATGATCATTC
CTCAACTCGCCACTTGATGTCACTGCATAGTCAAAT
S GAGGCTGAGGGCTGTTGGAGACACAGAAGT
S ATGACGTGGCAGACCCATAAGGCAGCGTGY
S CGCGCCGAGGACATAAGGCAGCGTGTY
S CTTCACACGCTGCCTTATGGCTTCTGTGTCTCCAACAGCCCTCAGCCTCTG
S CTTCACACGCTGCCTTATGTCTTCTGTGTCTCCAACAGCCCTCAGCCTCTG
CCACTCAGCACTGAGTTAGAGCTGGGTGGGGGCATGTCTGCCTTCACACGCTGCCTTATG[gt]CTTCTGTGTCTCCAA
CAGCCCTCAGCCTCTGGCTGCTCTCCTTCCCAATAGTCACAAGAT
A TCCTTTTTCCCTCTCTCCATTCCCACATTCTTTTATTTTCACGTAT
A CGCGCCGAGGCTTACTATAGGCCTTGTAGGY
A ATGACGTGGCAGACGTTACTATAGGCCTTGTAGGY
A AGCCCCCTACAAGGCCTATAGTAAGTACGTGAAAATAAAAGAATGTGGGAATGGAGAGAGGGAAAAAGGAAT
A AGCCCCTACAAGGCCTATAGTAACTACGTGAAAATAAAAGAATGTGGGAATGGAGAGAGGGAAAAAGGAAT
CCCAAGCATATAAATTCCTTTTTCCCTCTCTCCATTCCCACATTCTTTTATTTTCACGTA[cg]TTACTATAGGCCTTGTAG
GGGCTCTGTGAACAAGACAAAGGCCAGGTGCTGTGGCTGATG
A AGTTGTTTTTAGACAACAATTCCATTGAAGGAATACCAGAAAATTATTTTAATGC
A ATGACGTGGCAGACGGATTCCTAAAGTGGCCY
A CGCGCCGAGGTGATTCCTAAAGTGGCCTY

FIGURE 129D

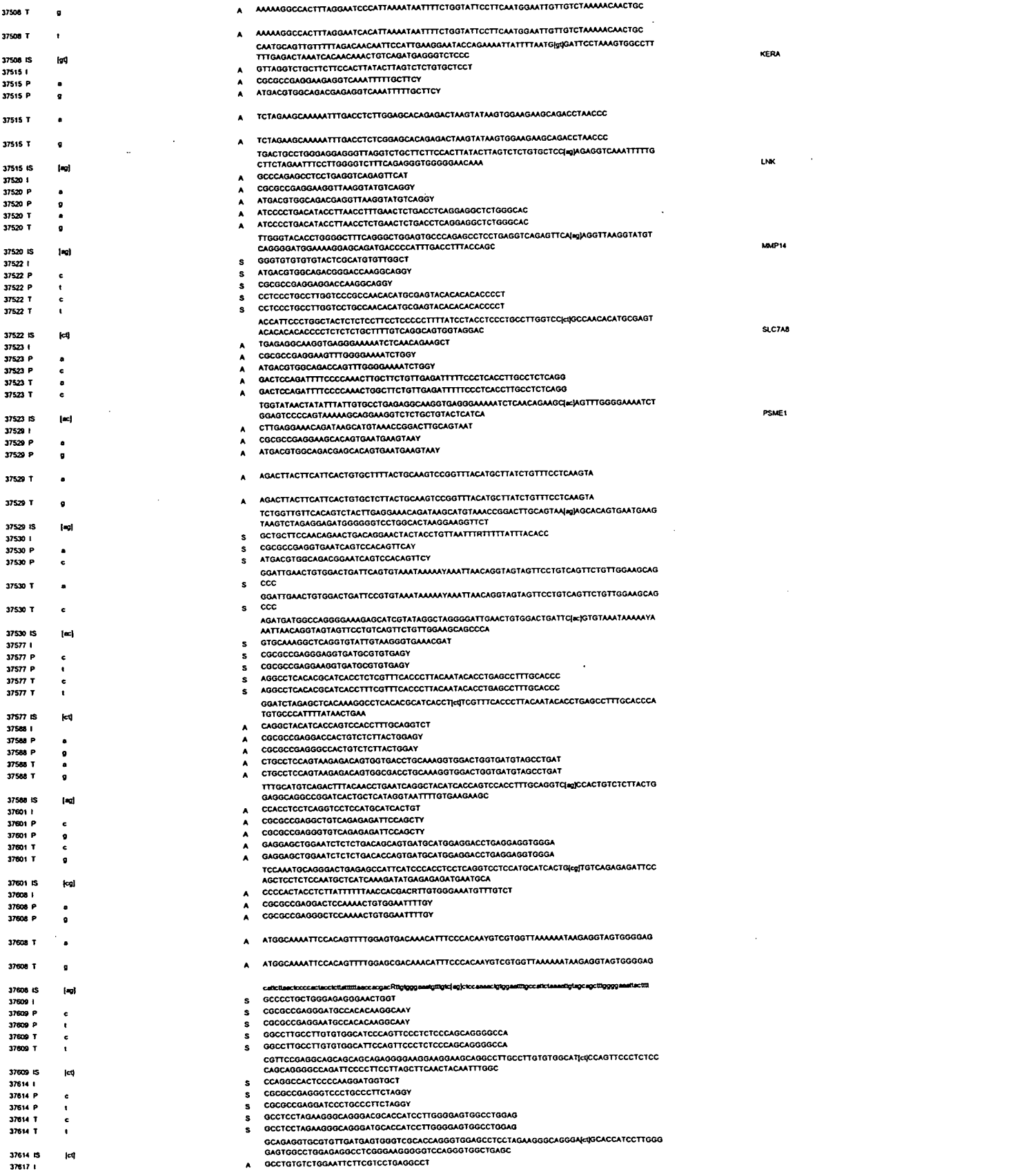
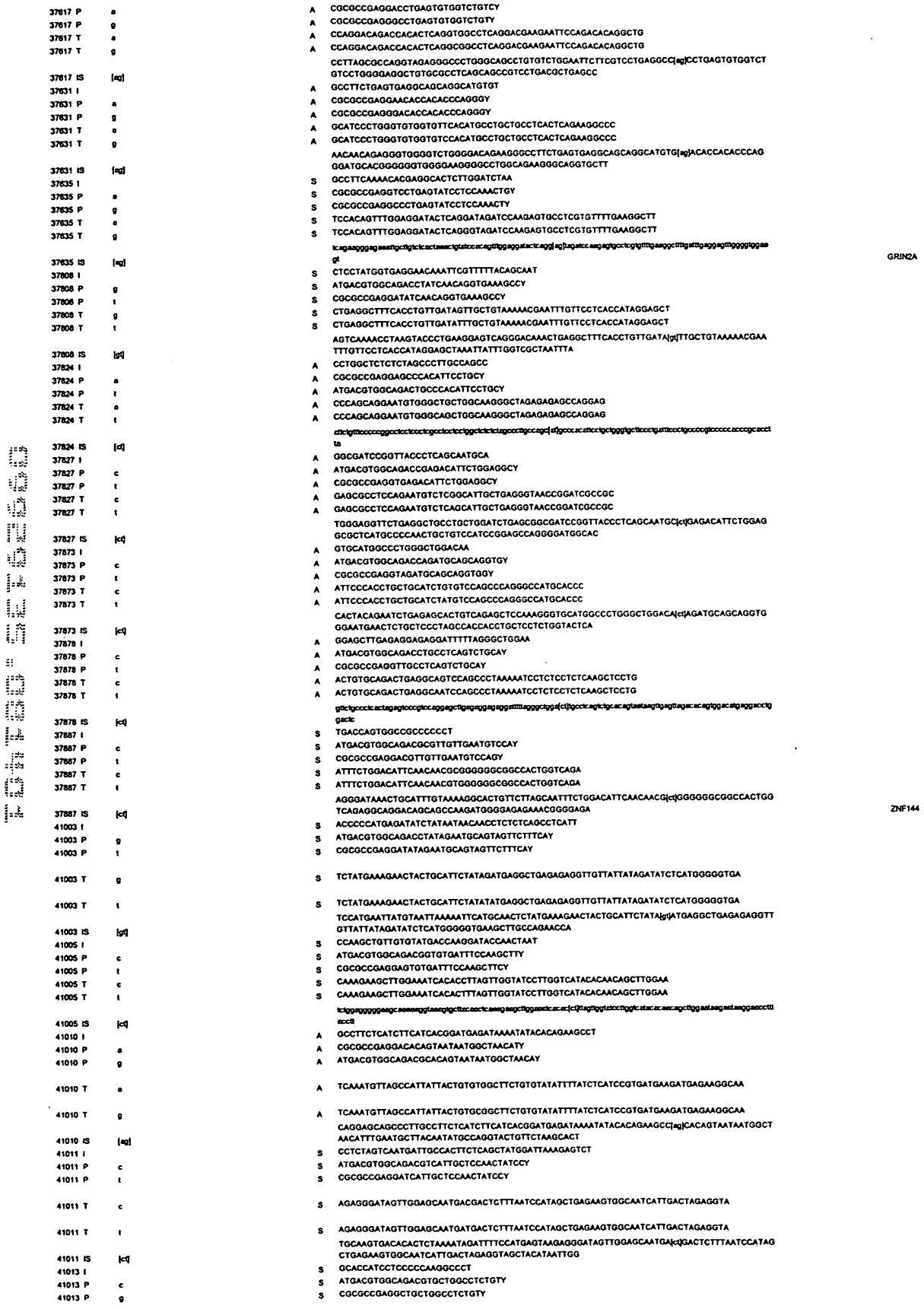
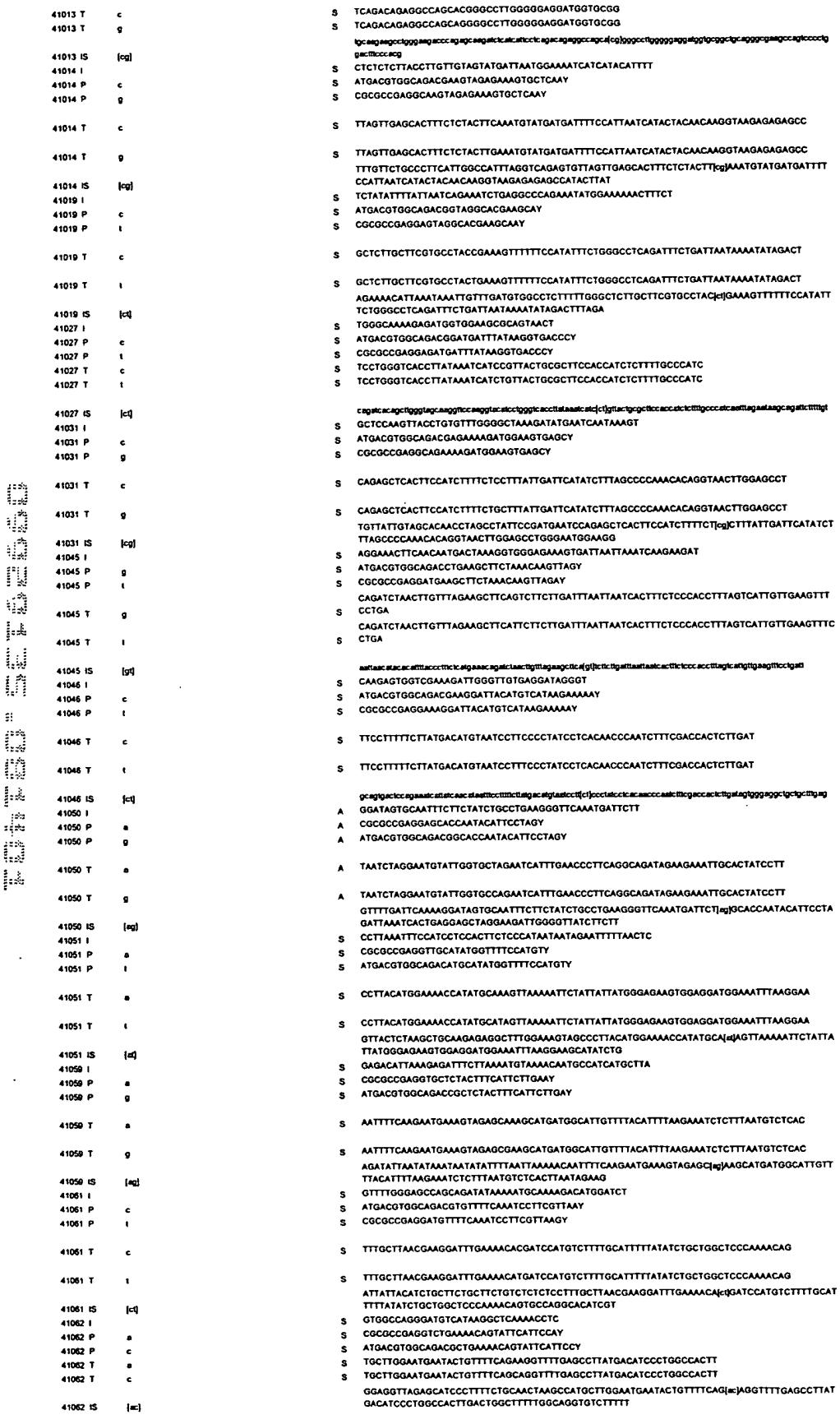
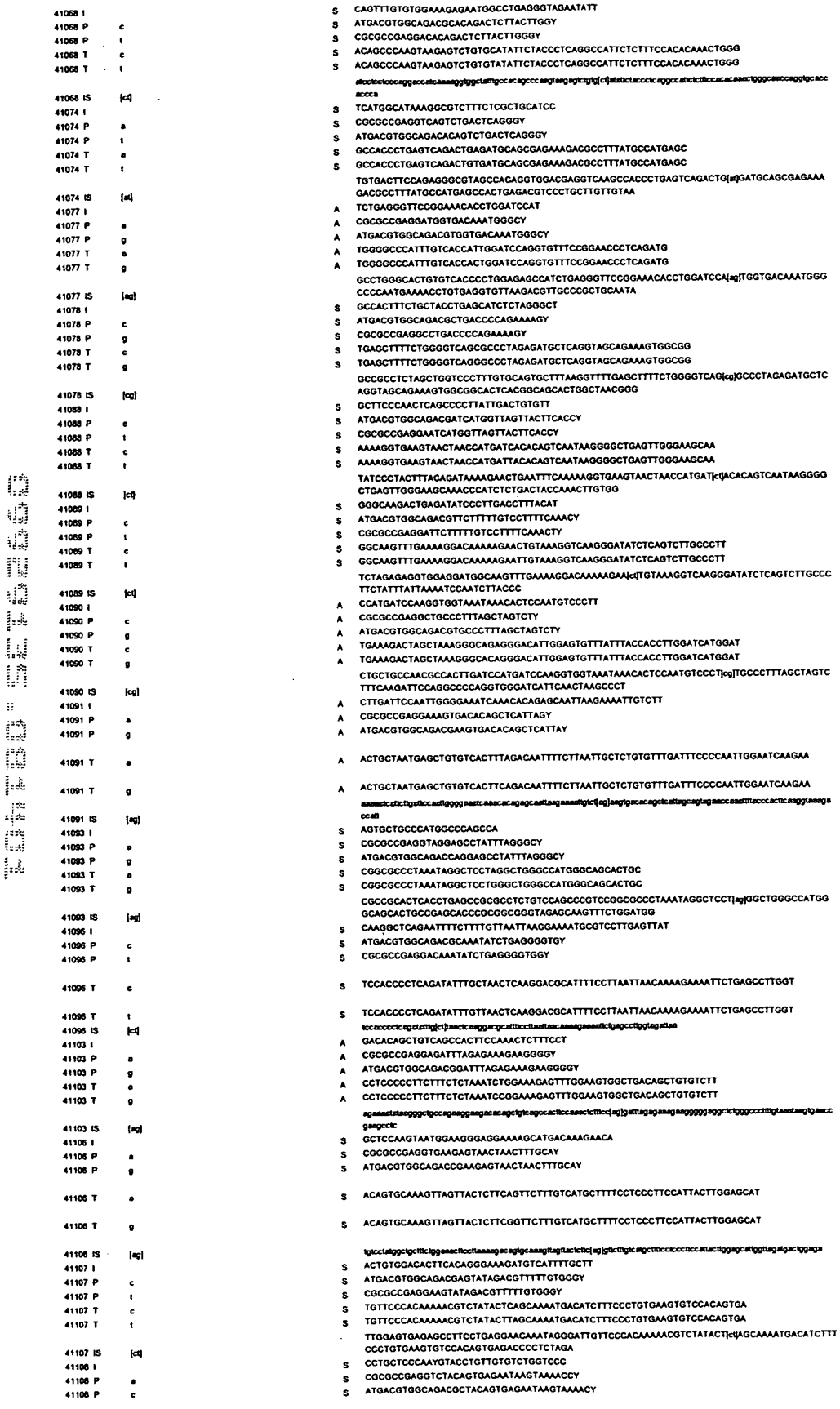

37506 T g A AAAAAGGCCACTTTAGGAATCCCATTAAAATAATTTTCTGGTATTCCTTCAATGGAATTGTTGTCTAAAAACAACTGC
37508 T t A AAAAAGGCCACTTTAGGAATCACATTAAAATAATTTTCTGGTATTCCTTCAATGGAATTGTTGTCTAAAAACAACTGC
37508 IS [gt] CAATGCAGTTGTTTTTTAGACAACAATTCCATTGAAGGAATACCAGAAAATTATTTTAATG[gt]GATTCCTAAAGTGGCCTT TTTGAGACTAAATCACAACAAACTGTCAGATGAGGGTCTCCC KERA
37515 I A GTTAGGTCTGCTTCTTCCACTTATACTTAGTCTCTGTGCTCCT
37515 P a A CGCGCCGAGGAAGAGGTCAAATTTTTGCTTCY
37515 P g A ATGACGTGGCAGACGAGAGGTCAAATTTTTGCTTCY
37515 T a A TCTAGAAGCAAAAATTTGACCTCTTGGAGCACAGAGACTAAGTATAAGTGGAAGAAGCAGACCTAACCC
37515 T g A TCTAGAAGCAAAAATTTGACCTCTCGGAGCACAGAGACTAAGTATAAGTGGAAGAAGCAGACCTAACCC
37515 IS [ag] TGACTGCCTGGGAGGAGGGTTAGGTCTGCTTCTTCCACTTATACTTAGTCTCTGTGCTCC[ag]AGAGGTCAAATTTTTG CTTCTAGAATTTCCTTGGGGTCTTTCAGAGGGTGGGGGAACAAA LNK
37520 I A GCCCAGAGCCTCCTGAGGTCAGAGTTCAT
37520 P a A CGCGCCGAGGAAGGTTAAGGTATGTCAGGY
37520 P g A ATGACGTGGCAGACGAGGTTAAGGTATGTCAGGY
37520 T a A ATCCCCTGACATACCTTAACCTTTGAACTCTGACCTCAGGAGGCTCTGGGCAC
37520 T g A ATCCCCTGACATACCTTAACCTCTGAACTCTGACCTCAGGAGGCTCTGGGCAC
37520 IS [ag] TTGGGTACACCTGGGGCTTTCAGGGCTGGAGTGCCCAGAGCCTCCTGAGGTCAGAGTTCA[ag]AGGTTAAGGTATGT CAGGGGATGAAAAGGAGCAGATGACCCCATTTGACCTTTACCAGC MMP14
37522 I S GGGTGTGTGTGTACTCGCATGTGTTGGCT
37522 P c S ATGACGTGGCAGACGGGACCAAGGCAGGY
37522 P t S CGCGCCGAGGAGGACCAAGGCAGGY
37522 T c S CCTCCCTGCCTTGGTCCCGCCAACACATGCGAGTACACACACACCCCT
37522 T t S CCTCCCTGCCTTGGTCCTGCCAACACATGCGAGTACACACACACCCCT
37522 IS [ct] ACCATTCCCTGGCTACTCTCTCCTTCCTCCCCCTTTTATCCTACCTCCCTGCCTTGGTCC[ct]GCCAACACATGCGAGT ACACACACACCCCTCTCTCTGCTTTTGTCAGGCAGTGGTAGGAC SLC7A8
37523 I A TGAGAGGCAAGGTGAGGGAAAAATCTCAACAGAAGCT
37523 P a A CGCGCCGAGGAAGTTTGGGGAAAATCTGGY
37523 P c A ATGACGTGGCAGACCAGTTTGGGGAAAATCTGGY
37523 T a A GACTCCAGATTTTCCCCAAACTTGCTTCTGTTGAGATTTTTCCCTCACCTTGCCTCTCAGG
37523 T c A GACTCCAGATTTTCCCCAAACTGGCTTCTGTTGAGATTTTTCCCTCACCTTGCCTCTCAGG
37523 IS [ac] TGGTATAACTATATTTATTGTGCCTGAGAGGCAAGGTGAGGGAAAAATCTCAACAGAAGC[ac]AGTTTGGGGAAAATCT GGAGTCCCCAGTAAAAAGCAGGAAGGTCTCTGCTGTACTCATCA PSME1
37529 I A CTTGAGGAAACAGATAAGCATGTAAACCGGACTTGCAGTAAT
37529 P a A CGCGCCGAGGAAGCACAGTGAATGAAGTAAY
37529 P g A ATGACGTGGCAGACGAGCACAGTGAATGAAGTAAY
37529 T a A AGACTTACTTCATTCACTGTGCTTTTACTGCAAGTCCGGTTTACATGCTTATCTGTTTCCTCAAGTA
37529 T g A AGACTTACTTCATTCACTGTGCTCTTACTGCAAGTCCGGTTTACATGCTTATCTGTTTCCTCAAGTA
37529 IS [ag] TCTGGTTGTTCACAGTCTACTTGAGGAAACAGATAAGCATGTAAACCGGACTTGCAGTAA[ag]AGCACAGTGAATGAAG TAAGTCTAGAGGAGATGGGGGGTCCTGGCACTAAGGAAGGTTCT
37530 I S GCTGCTTCCAACAGAACTGACAGGAACTACTACCTGTTAATTTRTTTTTATTTACACC
37530 P a S CGCGCCGAGGTGAATCAGTCCACAGTTCAY
37530 P c S ATGACGTGGCAGACGGAATCAGTCCACAGTTCY
37530 T a S GGATTGAACTGTGGACTGATTCAGTGTAAATAAAAAYAAATTAACAGGTAGTAGTTCCTGTCAGTTCTGTTGGAAGCAG CCC
37530 T c S GGATTGAACTGTGGACTGATTCCGTGTAAATAAAAAYAAATTAACAGGTAGTAGTTCCTGTCAGTTCTGTTGGAAGCAG CCC
37530 IS [ac] AGATGATGGCCAGGGGAAAGAGCATCGTATAGGCTAGGGGATTGAACTGTGGACTGATTC[ac]GTGTAAATAAAAAYA AATTAACAGGTAGTAGTTCCTGTCAGTTCTGTTGGAAGCAGCCCA
37577 I S GTGCAAAGGCTCAGGTGTATTGTAAGGGTGAAACGAT
37577 P c S CGCGCCGAGGGAGGTGATGCGTGTGAGY
37577 P t S CGCGCCGAGGAAGGTGATGCGTGTGAGY
37577 T c S AGGCCTCACACGCATCACCTCTCGTTTCACCCTTACAATACACCTGAGCCTTTGCACCC
37577 T t S AGGCCTCACACGCATCACCTTTCGTTTCACCCTTACAATACACCTGAGCCTTTGCACCC
37577 IS [ct] GGATCTAGAGCTCACAAAGGCCTCACACGCATCACCT[ct]TCGTTTCACCCTTACAATACACCTGAGCCTTTGCACCCA TGTGCCCATTTTATAACTGAA
37588 I A CAGGCTACATCACCAGTCCACCTTTGCAGGTCT
37588 P a A CGCGCCGAGGACCACTGTCTCTTACTGGAGY
37588 P g A CGCGCCGAGGGCCACTGTCTCTTACTGGAY
37588 T a A CTGCCTCCAGTAAGAGACAGTGGTGACCTGCAAAGGTGGACTGGTGATGTAGCCTGAT
37588 T g A CTGCCTCCAGTAAGAGACAGTGGCGACCTGCAAAGGTGGACTGGTGATGTAGCCTGAT
37588 IS [ag] TTTGCATGTCAGACTTTACAACCTGAATCAGGCTACATCACCAGTCCACCTTTGCAGGTC[ag]CCACTGTCTCTTACTG GAGGCAGGCCGGATCACTGCTCATAGGTAATTTTGTGAAGAAGC
37601 I A CCACCTCCTCAGGTCCTCCATGCATCACTGT
37601 P c A CGCGCCGAGGCTGTCAGAGAGATTCCAGCTY
37601 P g A CGCGCCGAGGGTGTCAGAGAGATTCCAGCTY
37601 T c A GAGGAGCTGGAATCTCTCTGACAGCAGTGATGCATGGAGGACCTGAGGAGGTGGGA
37601 T g A GAGGAGCTGGAATCTCTCTGACACCAGTGATGCATGGAGGACCTGAGGAGGTGGGA
37601 IS [cg] TCCAAATGCAGGGACTGAGAGCCATTCATCCCACCTCCTCAGGTCCTCCATGCATCACTG[cg]TGTCAGAGAGATTCC AGCTCCTCTCCAATGCTCATCAAAGATATGAGAGAGATGAATGCA
37608 I A CCCCACTACCTCTTATTTTTTAACCACGACRTTGTGGGAAATGTTTGTCT
37608 P a A CGCGCCGAGGACTCCAAAACTGTGGAATTTTGY
37608 P g A CGCGCCGAGGGCTCCAAAACTGTGGAATTTTGY
37608 T a A ATGGCAAAATTCCACAGTTTTGGAGTGACAAACATTTCCCACAAYGTCGTGGTTAAAAAATAAGAGGTAGTGGGGAG
37608 T g A ATGGCAAAATTCCACAGTTTTGGAGCGACAAACATTTCCCACAAYGTCGTGGTTAAAAAATAAGAGGTAGTGGGGAG
37608 IS [ag] cattcttaactcccctactacctcttatttttaaccacgacRttgtgggaaatgtttgtc[ag]ctccaaaactgtggaatttgccattctaaaatgtagcagcttgggggaaattacttt
37609 I S GCCCCTGCTGGGAGAGGGAACTGGT
37609 P c S CGCGCCGAGGGATGCCACACAAGGCAAY
37609 P t S CGCGCCGAGGAATGCCACACAAGGCAAY
37609 T c S GGCCTTGCCTTGTGTGGCATCCCAGTTCCCTCTCCCAGCAGGGGCCA
37609 T t S GGCCTTGCCTTGTGTGGCATTCCAGTTCCCTCTCCCAGCAGGGGCCA
37609 IS [ct] CGTTCCGAGGCAGCAGCAGCAGAGGGGAAGGAAGGAAGCAGGCCTTGCCTTGTGTGGCAT[ct]CCAGTTCCCTCTCC CAGCAGGGGCCAGATTCCCCTTCCTTAGCTTCAACTACAATTTGGC
37614 I S CCAGGCCACTCCCCAAGGATGGTGCT
37614 P c S CGCGCCGAGGGTCCCTGCCCTTCTAGGY
37614 P t S CGCGCCGAGGATCCCTGCCCTTCTAGGY
37614 T c S GCCTCCTAGAAGGGCAGGGACGCACCATCCTTGGGGAGTGGCCTGGAG
37614 T t S GCCTCCTAGAAGGGCAGGGATGCACCATCCTTGGGGAGTGGCCTGGAG
37614 IS [ct] GCAGAGGTGCGTGTTGATGAGTGGGTCGCACCAGGGTGGAGCCTCCTAGAAGGGCAGGGA[ct]GCACCATCCTTGGG GAGTGGCCTGGAGAGGCCTCGGGAAGGGGGTCCAGGGTGGCTGAGC
37617 I A GCCTGTGTCTGGAATTCTTCGTCCTGAGGCCT

FIGURE 129D




41013 T c S TCAGACAGAGGCCAGCACGGGCCTTGGGGGAGGATGGTGCGG
41013 T g S TCAGACAGAGGCCAGCAGGGGCCTTGGGGGAGGATGGTGCGG
41013 IS [cg]
41014 I S CTCTCTCTTACCTTGTTGTAGTATGATTAATGGAAAATCATCATACATTTT
41014 P c S ATGACGTGGCAGACGAAGTAGAGAAAGTGCTCAAY
41014 P g S CGCGCCGAGGCAAGTAGAGAAAGTGCTCAAY
41014 T c S TTAGTTGAGCACTTTCTCTACTTCAAATGTATGATGATTTTCCATTAATCATACTACAACAAGGTAAGAGAGAGCC
41014 T g S TTAGTTGAGCACTTTCTCTACTTGAAATGTATGATGATTTTCCATTAATCATACTACAACAAGGTAAGAGAGAGCC
41014 IS [cg]
41019 I S TCTATATTTTATTAATCAGAAATCTGAGGCCCAGAAATATGGAAAAAACTTTCT
41019 P c S ATGACGTGGCAGACGGTAGGCACGAAGCAY
41019 P t S CGCGCCGAGGAGTAGGCACGAAGCAAY
41019 T c S GCTCTTGCTTCGTGCCTACCGAAAGTTTTTTCCATATTTCTGGGCCTCAGATTTCTGATTAATAAAATATAGACT
41019 T t S GCTCTTGCTTCGTGCCTACTGAAAGTTTTTTCCATATTTCTGGGCCTCAGATTTCTGATTAATAAAATATAGACT
41019 IS [ct]
41027 I S TGGGCAAAAGAGATGGTGGAAGCGCAGTAACT
41027 P c S ATGACGTGGCAGACGGATGATTTATAAGGTGACCCY
41027 P t S CGCGCCGAGGAGATGATTTATAAGGTGACCCY
41027 T c S TCCTGGGTCACCTTATAAATCATCCGTTACTGCGCTTCCACCATCTCTTTTGCCCATC
41027 T t S TCCTGGGTCACCTTATAAATCATCTGTTACTGCGCTTCCACCATCTCTTTTGCCCATC
41027 IS [ct]
41031 I S GCTCCAAGTTACCTGTGTTTGGGGCTAAAGATATGAATCAATAAAGT
41031 P c S ATGACGTGGCAGACGAGAAAAGATGGAAGTGAGCY
41031 P g S CGCGCCGAGGCAGAAAAGATGGAAGTGAGCY
41031 T c S CAGAGCTCACTTCCATCTTTTCTCCTTTATTGATTCATATCTTTAGCCCCAAACACAGGTAACTTGGAGCCT
41031 T g S CAGAGCTCACTTCCATCTTTTCTGCTTTATTGATTCATATCTTTAGCCCCAAACACAGGTAACTTGGAGCCT
41031 IS [cg]
41045 I S AGGAAACTTCAACAATGACTAAAGGTGGGAGAAAGTGATTAATTAAATCAAGAAGAT
41045 P g S ATGACGTGGCAGACCTGAAGCTTCTAAACAAGTTAGY
41045 P t S CGCGCCGAGGATGAAGCTTCTAAACAAGTTAGAY
41045 T g S CAGATCTAACTTGTTTAGAAGCTTCAGTCTTCTTGATTTAATTAATCACTTTCTCCCACCTTTAGTCATTGTTGAAGTTT CCTGA
41045 T t S CAGATCTAACTTGTTTAGAAGCTTCATTCTTCTTGATTTAATTAATCACTTTCTCCCACCTTTAGTCATTGTTGAAGTTTC CTGA
41045 IS [gt]
41046 I S CAAGAGTGGTCGAAAGATTGGGTTGTGAGGATAGGGT
41046 P c S ATGACGTGGCAGACGAAGGATTACATGTCATAAGAAAAAY
41046 P t S CGCGCCGAGGAAAGGATTACATGTCATAAGAAAAAY
41046 T c S TTCCTTTTTCTTATGACATGTAATCCTTCCCCTATCCTCACAACCCAATCTTTCGACCACTCTTGAT
41046 T t S TTCCTTTTTCTTATGACATGTAATCCTTTCCCTATCCTCACAACCCAATCTTTCGACCACTCTTGAT
41046 IS [ct]
41050 I A GGATAGTGCAATTTCTTCTATCTGCCTGAAGGGTTCAAATGATTCTT
41050 P a A CGCGCCGAGGAGCACCAATACATTCCTAGY
41050 P g A ATGACGTGGCAGACGGCACCAATACATTCCTAGY
41050 T a A TAATCTAGGAATGTATTGGTGCTAGAATCATTTGAACCCTTCAGGCAGATAGAAGAAATTGCACTATCCTT
41050 T g A TAATCTAGGAATGTATTGGTGCCAGAATCATTTGAACCCTTCAGGCAGATAGAAGAAATTGCACTATCCTT
41050 IS [ag]
41051 I S CCTTAAATTTCCATCCTCCACTTCTCCCATAATAATAGAATTTTTAACTC
41051 P a S CGCGCCGAGGTTGCATATGGTTTTCCATGTY
41051 P t S ATGACGTGGCAGACATGCATATGGTTTTCCATGTY
41051 T a S CCTTACATGGAAAACCATATGCAAAGTTAAAAATTCTATTATTATGGGAGAAGTGGAGGATGGAAATTTAAGGAA
41051 T t S CCTTACATGGAAAACCATATGCATAGTTAAAAATTCTATTATTATGGGAGAAGTGGAGGATGGAAATTTAAGGAA
41051 IS [at]
41059 I S GAGACATTAAAGAGATTTCTTAAAATGTAAAACAATGCCATCATGCTTA
41059 P a S CGCGCCGAGGTGCTCTACTTTCATTCTTGAAY
41059 P g S ATGACGTGGCAGACCGCTCTACTTTCATTCTTGAY
41059 T a S AATTTTCAAGAATGAAAGTAGAGCAAAGCATGATGGCATTGTTTTACATTTTAAGAAATCTCTTTAATGTCTCAC
41059 T g S AATTTTCAAGAATGAAAGTAGAGCGAAGCATGATGGCATTGTTTTACATTTTAAGAAATCTCTTTAATGTCTCAC
41059 IS [ag]
41061 I S GTTTTGGGAGCCAGCAGATATAAAAATGCAAAAGACATGGATCT
41061 P c S ATGACGTGGCAGACGTGTTTTCAAATCCTTCGTTAAY
41061 P t S CGCGCCGAGGATGTTTTCAAATCCTTCGTTAAGY
41061 T c S TTTGCTTAACGAAGGATTTGAAAACACGATCCATGTCTTTTGCATTTTTATATCTGCTGGCTCCCAAAACAG
41061 T t S TTTGCTTAACGAAGGATTTGAAAACATGATCCATGTCTTTTGCATTTTTATATCTGCTGGCTCCCAAAACAG
41061 IS [ct]
41062 I S GTGGCCAGGGATGTCATAAGGCTCAAAACCTC
41062 P a S CGCGCCGAGGTCTGAAAACAGTATTCATTCCAY
41062 P c S ATGACGTGGCAGACGCTGAAAACAGTATTCATTCCY
41062 T a S TGCTTGGAATGAATACTGTTTTCAGAAGGTTTTGAGCCTTATGACATCCCTGGCCACTT
41062 T c S TGCTTGGAATGAATACTGTTTTCAGCAGGTTTTGAGCCTTATGACATCCCTGGCCACTT
41062 IS [ac]



S CAGTTTGTGTGGAAAGAGAATGGCCTGAGGGTAGAATATT

S ATGACGTGGCAGACGCACAGACTCTTACTTGGGY

S CGCGCCGAGGACACAGACTCTTACTTGGGY

S ACAGCCCAAGTAAGAGTCTGTGCATATTCTACCCTCAGGCCATTCTCTTTCCACACAAACTGGG

S ACAGCCCAAGTAAGAGTCTGTGTATATTCTACCCTCAGGCCATTCTCTTTCCACACAAACTGGG

atcctcctccccaggaccctacaaaggtggctatttgccacagcccaagtaagagtctgtg[ct]atatctacccticaggccatttcttttccacacaaactgggcaaccaggtgcacc acccs

A TCATGGCATAAAGGCGTCTTTCTCGCTGCATCC

S CGCGCCGAGGTCAGTCTGACTCAGGGY

S ATGACGTGGCAGACACAGTCTGACTCAGGGY

S GCCACCCTGAGTCAGACTGAGATGCAGCGAGAAAGACGCCTTTATGCCATGAGC

S GCCACCCTGAGTCAGACTGTGATGCAGCGAGAAAGACGCCTTTATGCCATGAGC

TGTGACTTCCAGAGGGCGTAGCCACAGGTGGACGAGGTCAAGCCACCCTGAGTCAGACTG[at]GATGCAGCGAGAAA GACGCCTTTATGCCATGAGCCACTGAGACGTCCCTGCTTGTTGTAA

A TCTGAGGGTTCCGGAAACACCTGGATCCAT

A CGCGCCGAGGATGGTGACAAATGGGCY

A ATGACGTGGCAGACGTGGTGACAAATGGGCY

A TGGGGCCCATTTGTCACCATTGGATCCAGGTGTTTCCGGAACCCTCAGATG

A TGGGGCCCATTTGTCACCACTGGATCCAGGTGTTTCCGGAACCCTCAGATG

GCCTGGGCACTGTGTCACCCCTGGAGAGCCATCTGAGGGTTCCGGAAACACCTGGATCCA[ag]TGGTGACAAATGGG CCCCAATGAAAACCTGTGAGGTGTTAAGACGTTGCCCGCTGCAATA

S GCCACTTTCTGCTACCTGAGCATCTCTAGGGCT

S ATGACGTGGCAGACGCTGACCCCAGAAAAGY

S CGCGCCGAGGCCTGACCCCAGAAAAGY

S TGAGCTTTTCTGGGGTCAGCGCCCTAGAGATGCTCAGGTAGCAGAAAGTGGCGG

S TGAGCTTTTCTGGGGTCAGGGCCCTAGAGATGCTCAGGTAGCAGAAAGTGGCGG

GCCGCCTCTAGCTGGTCCCTTTGTGCAGTGCTTTAAGGTTTTGAGCTTTTCTGGGGTCAG[cg]GCCCTAGAGATGCTC AGGTAGCAGAAAGTGGCGGCACTCACGGCAGCACTGGCTAACGGG

S GCTTCCCAACTCAGCCCCTTATTGACTGTGTT

S ATGACGTGGCAGACGATCATGGTTAGTTACTTCACCY

S CGCGCCGAGGAATCATGGTTAGTTACTTCACCY

S AAAAGGTGAAGTAACTAACCATGATCACACAGTCAATAAGGGGCTGAGTTGGGAAGCAA

S AAAAGGTGAAGTAACTAACCATGATTACACAGTCAATAAGGGGCTGAGTTGGGAAGCAA

TATCCCTACTTTACAGATAAAAGAACTGAATTTCAAAAAGGTGAAGTAACTAACCATGAT[ct]ACACAGTCAATAAGGGG CTGAGTTGGGAAGCAAACCCATCTCTGACTACCAAACTTGTGG

S GGGCAAGACTGAGATATCCCTTGACCTTTACAT

S ATGACGTGGCAGACGTTCTTTTTGTCCTTTTCAAACY

S CGCGCCGAGGATTCTTTTTGTCCTTTTCAAACTY

S GGCAAGTTTGAAAAGGACAAAAAGAACTGTAAAGGTCAAGGGATATCTCAGTCTTGCCCTT

S GGCAAGTTTGAAAAGGACAAAAAGAATTGTAAAGGTCAAGGGATATCTCAGTCTTGCCCTT

TCTAGAGAGGTGGAGGATGGCAAGTTTGAAAAGGACAAAAAGAA[ct]TGTAAAGGTCAAGGGATATCTCAGTCTTGCCC TTCTATTTATTAAAATCCAATCTTACCC

A CCATGATCCAAGGTGGTAAATAAACACTCCAATGTCCCTT

A CGCGCCGAGGCTGCCCTTTAGCTAGTCTY

A ATGACGTGGCAGACGTGCCCTTTAGCTAGTCTY

A TGAAAGACTAGCTAAAGGGCAGAGGGACATTGGAGTGTTTATTTACCACCTTGGATCATGGAT

A TGAAAGACTAGCTAAAGGGCACAGGGACATTGGAGTGTTTATTTACCACCTTGGATCATGGAT

CTGCTGCCAACGCCACTTGATCCATGATCCAAGGTGGTAAATAAACACTCCAATGTCCCT[cg]TGCCCTTTAGCTAGTC TTTCAAGATTCCAGGCCCCAGGTGGGATCATTCAACTAAGCCCT

A CTTGATTCCAATTGGGGAAATCAAACACAGAGCAATTAAGAAAATTGTCTT

A CGCGCCGAGGAAAGTGACACAGCTCATTAGY

A ATGACGTGGCAGACGAAGTGACACAGCTCATTAY

A ACTGCTAATGAGCTGTGTCACTTTAGACAATTTTCTTAATTGCTCTGTGTTTGATTTCCCCAATTGGAATCAAGAA

A ACTGCTAATGAGCTGTGTCACTTCAGACAATTTTCTTAATTGCTCTGTGTTTGATTTCCCCAATTGGAATCAAGAA

aaaaatcatctgtgatccaatgggggaattcaaccacagagcaattaagaaaattgtct[ag]aagtgaccagctcattagcagtagaaccaaattttaccccacttcaaggtaaaga ccatt

S AGTGCTGCCCATGGCCCAGCCA

S CGCGCCGAGGTAGGAGCCTATTTAGGGCY

S ATGACGTGGCAGACCAGGAGCCTATTTAGGGCY

S CGGCGCCCTAAATAGGCTCCTAGGCTGGGCCATGGGCAGCACTGC

S CGGCGCCCTAAATAGGCTCCTGGGCTGGGCCATGGGCAGCACTGC

CGCCGCACTCACCTGAGCCGCGCCTCTGTCCAGCCCGTCCGGCGCCCTAAATAGGCTCCT[ag]GGCTGGGCCATGG GCAGCACTGCCGAGCACCCGCGGCGGGTAGAGCAAGTTTCTGGATGG

S CAAGGCTCAGAATTTTCTTTTGTTAATTAAGGAAAATGCGTCCTTGAGTTAT

S ATGACGTGGCAGACGCAAATATCTGAGGGGTGY

S CGCGCCGAGGACAAATATCTGAGGGGTGGY

S TCCACCCCTCAGATATTTGCTAACTCAAGGACGCATTTTCCTTAATTAACAAAAGAAAATTCTGAGCCTTGGT

S TCCACCCCTCAGATATTTGTTAACTCAAGGACGCATTTTCCTTAATTAACAAAAGAAAATTCTGAGCCTTGGT

tccacccctcagatatttgttaactcaaggacgcattttccttaattaacaaaagaaaattctgagccttggtagtaa

A GACACAGCTGTCAGCCACTTCCAAACTCTTTCCT

A CGCGCCGAGGAGATTTAGAGAAAGAAGGGGY

A ATGACGTGGCAGACGGATTTAGAGAAAGAAGGGGY

A CCTCCCCCTTCTTTCTCTAAATCTGGAAAGAGTTTGGAAGTGGCTGACAGCTGTGTCTT

A CCTCCCCCTTCTTTCTCTAAATCCGGAAAGAGTTTGGAAGTGGCTGACAGCTGTGTCTT

agaaaatataaggggctgccagaaggaagacacagctgtcagccactccaaactcttccc[ag]gatttagagaaagaaggggggaggctctgggccctttgtaaataagtgaccc gaagcctc

S GCTCCAAGTAATGGAAGGGAGGAAAAGCATGACAAAGAACA

S CGCGCCGAGGTGAAGAGTAACTAACTTTGCAY

S ATGACGTGGCAGACCGAAGAGTAACTAACTTTGCAY

S ACAGTGCAAAGTTAGTTACTCTTCAGTTCTTTGTCATGCTTTTCCTCCCTTCCATTACTTGGAGCAT

S ACAGTGCAAAGTTAGTTACTCTTCGGTTCTTTGTCATGCTTTTCCTCCCTTCCATTACTTGGAGCAT

tgtcctatggctgcttctcttggaaacttcctaaaagcacagtgcaaagttagttactcttc[ag]gttcttgtcatgcttttcctcccttccattacttggagcattggttagatgactggaga

S ACTGTGGACACTTCACAGGGAAAGATGTCATTTTGCTT

S ATGACGTGGCAGACGAGTATAGACGTTTTTGTGGGY

S CGCGCCGAGGAAGTATAGACGTTTTTGTGGGY

S TGTTCCCACAAAAACGTCTATACTCAGCAAAATGACATCTTTCCCTGTGAAGTGTCCACAGTGA

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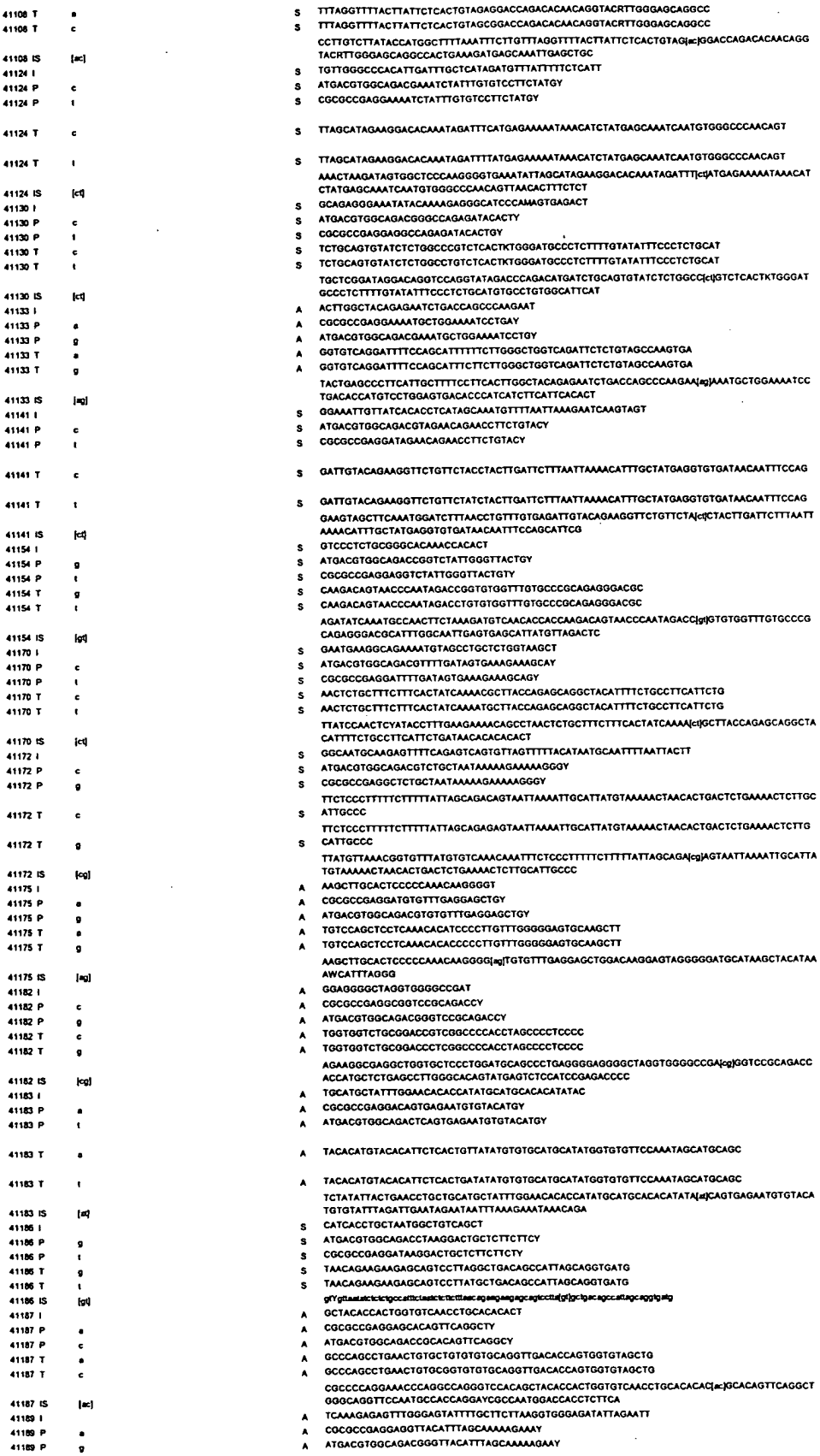
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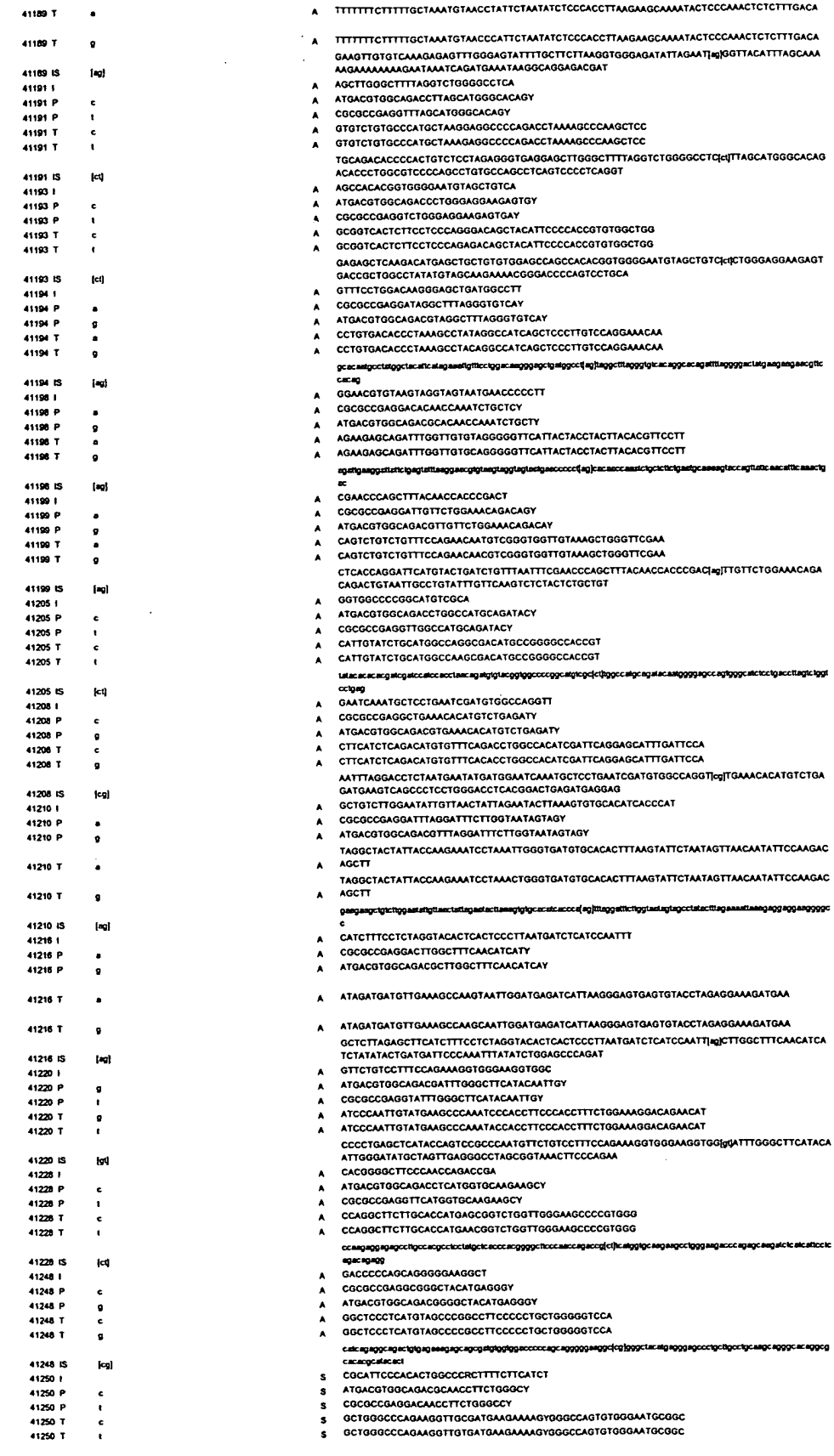
S CCTGCTCCCAAYGTACCTGTTGTGTCTGGTCCC

S CGCGCCGAGGTCTACAGTGAGAATAAGTAAAACCY

S ATGACGTGGCAGACGCTACAGTGAGAATAAGTAAAACY

FIGURE 129D


41108 T a S TTTAGGTTTTACTTATTCTCACTGTAGAGGACCAGACACAACAGGTACRTTGGGAGCAGGCC
41108 T c S TTTAGGTTTTACTTATTCTCACTGTAGCGGACCAGACACAACAGGTACRTTGGGAGCAGGCC
41108 IS [ac] CCTTGTCTTATACCATGGCTTTTAAATTTCTTGTTTAGGTTTTACTTATTCTCACTGTAG[ac]GGACCAGACACAACAGG TACRTTGGGAGCAGGCCACTGAAAGATGAGCAAATTGAGCTGC
41124 I S TGTTGGGCCCACATTGATTTGCTCATAGATGTTTATTTTTCTCATT
41124 P c S ATGACGTGGCAGACGAAATCTATTTGTGTCCTTCTATGY
41124 P t S CGCGCCGAGGAAAATCTATTTGTGTCCTTCTATGY
41124 T c S TTAGCATAGAAGGACACAAATAGATTTCATGAGAAAAATAAACATCTATGAGCAAATCAATGTGGGCCCAACAGT
41124 T t S TTAGCATAGAAGGACACAAATAGATTTTATGAGAAAAATAAACATCTATGAGCAAATCAATGTGGGCCCAACAGT
41124 IS [ct] AAACTAAGATAGTGGCTCCCAAGGGGTGAAATATTAGCATAGAAGGACACAAATAGATTT[ct]ATGAGAAAAATAAACAT CTATGAGCAAATCAATGTGGGCCCAACAGTTAACACTTTCTCT
41130 I S GCAGAGGGAAATATACAAAAGAGGGCATCCCAMAGTGAGACT
41130 P c S ATGACGTGGCAGACGGGCCAGAGATACACTY
41130 P t S CGCGCCGAGGAGGCCAGAGATACACTGY
41130 T c S TCTGCAGTGTATCTCTGGCCCGTCTCACTKTGGGATGCCCTCTTTTGTATATTTCCCTCTGCAT
41130 T t S TCTGCAGTGTATCTCTGGCCTGTCTCACTKTGGGATGCCCTCTTTTGTATATTTCCCTCTGCAT
41130 IS [ct] TGCTCGGATAGGACAGGTCCAGGTATAGACCCAGACATGATCTGCAGTGTATCTCTGGCC[ct]GTCTCACTKTGGGAT GCCCTCTTTTGTATATTTCCCTCTGCATGTGCCTGTGGCATTCAT
41133 I A ACTTGGCTACAGAGAATCTGACCAGCCCAAGAAT
41133 P a A CGCGCCGAGGAAAATGCTGGAAAATCCTGAY
41133 P g A ATGACGTGGCAGACGAAATGCTGGAAAATCCTGY
41133 T a A GGTGTCAGGATTTTCCAGCATTTTTTCTTGGGCTGGTCAGATTCTCTGTAGCCAAGTGA
41133 T g A GGTGTCAGGATTTTCCAGCATTTCTTCTTGGGCTGGTCAGATTCTCTGTAGCCAAGTGA
41133 IS [ag] TACTGAGCCCTTCATTGCTTTTCCTTCACTTGGCTACAGAGAATCTGACCAGCCCAAGAA[ag]AAATGCTGGAAAATCC TGACACCATGTCCTGGAGTGACACCCATCATCTTCATTCACACT
41141 I S GGAAATTGTTATCACACCTCATAGCAAATGTTTTAATTAAAGAATCAAGTAGT
41141 P c S ATGACGTGGCAGACGTAGAACAGAACCTTCTGTACY
41141 P t S CGCGCCGAGGATAGAACAGAACCTTCTGTACY
41141 T c S GATTGTACAGAAGGTTCTGTTCTACCTACTTGATTCTTTAATTAAAACATTTGCTATGAGGTGTGATAACAATTTCCAG
41141 T t S GATTGTACAGAAGGTTCTGTTCTATCTACTTGATTCTTTAATTAAAACATTTGCTATGAGGTGTGATAACAATTTCCAG
41141 IS [ct] GAAGTAGCTTCAAATGGATCTTTAACCTGTTTGTGAGATTGTACAGAAGGTTCTGTTCTA[ct]CTACTTGATTCTTTAATT AAAACATTTGCTATGAGGTGTGATAACAATTTCCAGCATTCG
41154 I S GTCCCTCTGCGGGCACAAACCACACT
41154 P g S ATGACGTGGCAGACCGGTCTATTGGGTTACTGY
41154 P t S CGCGCCGAGGAGGTCTATTGGGTTACTGTY
41154 T g S CAAGACAGTAACCCAATAGACCGGTGTGGTTTGTGCCCGCAGAGGGACGC
41154 T t S CAAGACAGTAACCCAATAGACCTGTGTGGTTTGTGCCCGCAGAGGGACGC
41154 IS [gt] AGATATCAAATGCCAACTTCTAAAGATGTCAACACCACCAAGACAGTAACCCAATAGACC[gt]GTGTGGTTTGTGCCCG CAGAGGGACGCATTTGGCAATTGAGTGAGCATTATGTTAGACTC
41170 I S GAATGAAGGCAGAAAATGTAGCCTGCTCTGGTAAGCT
41170 P c S ATGACGTGGCAGACGTTTTGATAGTGAAAGAAAGCAY
41170 P t S CGCGCCGAGGATTTTGATAGTGAAAGAAAGCAGY
41170 T c S AACTCTGCTTTCTTTCACTATCAAAACGCTTACCAGAGCAGGCTACATTTTCTGCCTTCATTCTG
41170 T t S AACTCTGCTTTCTTTCACTATCAAAATGCTTACCAGAGCAGGCTACATTTTCTGCCTTCATTCTG
41170 IS [ct] TTATCCAACTCYATACCTTTGAAGAAAACAGCCTAACTCTGCTTTCTTTCACTATCAAAA[ct]GCTTACCAGAGCAGGCTA CATTTTCTGCCTTCATTCTGATAACACACACACT
41172 I S GGCAATGCAAGAGTTTTCAGAGTCAGTGTTAGTTTTTACATAATGCAATTTTAATTACTT
41172 P c S ATGACGTGGCAGACGTCTGCTAATAAAAAGAAAAAGGGY
41172 P g S CGCGCCGAGGCTCTGCTAATAAAAAGAAAAAGGGY
41172 T c S TTCTCCCTTTTTTCTTTTTATTAGCAGACAGTAATTAAAATTGCATTATGTAAAAACTAACACTGACTCTGAAAACTCTTGC ATTGCCC
41172 T g S TTCTCCCTTTTTTCTTTTTATTAGCAGAGAGTAATTAAAATTGCATTATGTAAAAACTAACACTGACTCTGAAAACTCTTG CATTGCCC
41172 IS [cg] TTATGTTAAACGGTGTTTATGTGTCAAACAAATTTCTCCCTTTTTCTTTTTATTAGCAGA[cg]AGTAATTAAAATTGCATTA TGTAAAAACTAACACTGACTCTGAAAACTCTTGCATTGCCC
41175 I A AAGCTTGCACTCCCCCAAACAAGGGGT
41175 P a A CGCGCCGAGGATGTGTTTGAGGAGCTGY
41175 P g A ATGACGTGGCAGACGTGTGTTTGAGGAGCTGY
41175 T a A TGTCCAGCTCCTCAAACACATCCCCTTGTTTGGGGGAGTGCAAGCTT
41175 T g A TGTCCAGCTCCTCAAACACACCCCCTTGTTTGGGGGAGTGCAAGCTT
41175 IS [ag] AAGCTTGCACTCCCCCAAACAAGGGG[ag]TGTGTTTGAGGAGCTGGACAAGGAGTAGGGGGATGCATAAGCTACATAA AWCATTTAGGG
41182 I A GGAGGGGCTAGGTGGGGCCGAT
41182 P c A CGCGCCGAGGCGGTCCGCAGACCY
41182 P g A ATGACGTGGCAGACGGGTCCGCAGACCY
41182 T c A TGGTGGTCTGCGGACCGTCGGCCCCACCTAGCCCCTCCCC
41182 T g A TGGTGGTCTGCGGACCCTCGGCCCCACCTAGCCCCTCCCC
41182 IS [cg] AGAAGGCGAGGCTGGTGCTCCCTGGATGCAGCCCTGAGGGGAGGGGCTAGGTGGGGCCGA[cg]GGTCCGCAGACC ACCATGCTCTGAGCCTTGGGCACAGTATGAGTCTCCATCCGAGACCCC
41183 I A TGCATGCTATTTGGAACACACCATATGCATGCACACATATAC
41183 P a A CGCGCCGAGGACAGTGAGAATGTGTACATGY
41183 P t A ATGACGTGGCAGACTCAGTGAGAATGTGTACATGY
41183 T a A TACACATGTACACATTCTCACTGTTATATGTGTGCATGCATATGGTGTGTTCCAAATAGCATGCAGC
41183 T t A TACACATGTACACATTCTCACTGATATATGTGTGCATGCATATGGTGTGTTCCAAATAGCATGCAGC
41183 IS [at] TCTATATTACTGAACCTGCTGCATGCTATTTGGAACACACCATATGCATGCACACATATA[at]CAGTGAGAATGTGTACA TGTGTATTTAGATTGAATAGAATAATTTAAAGAAATAAACAGA
41186 I S CATCACCTGCTAATGGCTGTCAGCT
41186 P g S ATGACGTGGCAGACCTAAGGACTGCTCTTCTTCTY
41186 P t S CGCGCCGAGGATAAGGACTGCTCTTCTTCTY
41186 T g S TAACAGAAGAAGAGCAGTCCTTAGGCTGACAGCCATTAGCAGGTGATG
41186 T t S TAACAGAAGAAGAGCAGTCCTTATGCTGACAGCCATTAGCAGGTGATG
41186 IS [gt] gtYgtaaatatctctctgccatttctaatctctcttttaacagaagaagagcagtcctta[gt]gctgacagccattagcaggtgatg
41187 I A GCTACACCACTGGTGTCAACCTGCACACACT
41187 P a A CGCGCCGAGGAGCACAGTTCAGGCTY
41187 P c A ATGACGTGGCAGACCGCACAGTTCAGGCY
41187 T a A GCCCAGCCTGAACTGTGCTGTGTGTGCAGGTTGACACCAGTGGTGTAGCTG
41187 T c A GCCCAGCCTGAACTGTGCGGTGTGTGCAGGTTGACACCAGTGGTGTAGCTG
41187 IS [ac] CGCCCCAGGAAACCCAGGCCAGGGTCCACAGCTACACCACTGGTGTCAACCTGCACACAC[ac]GCACAGTTCAGGCT GGGCAGGTTCCAATGCCACCAGGAYCGCCAATGGACCACCTCTTCA
41189 I A TCAAAGAGAGTTTGGGAGTATTTTGCTTCTTAAGGTGGGAGATATTAGAATT
41189 P a A CGCGCCGAGGAGGTTACATTTAGCAAAAAGAAAY
41189 P g A ATGACGTGGCAGACGGGTTACATTTAGCAAAAAGAAY


41189 T a A TTTTTTTCTTTTTGCTAAATGTAACCTATTCTAATATCTCCCACCTTAAGAAGCAAAATACTCCCAAACTCTCTTTGACA
41189 T g A TTTTTTTCTTTTTGCTAAATGTAACCCATTCTAATATCTCCCACCTTAAGAAGCAAAATACTCCCAAACTCTCTTTGACA
41189 IS [ag] GAAGTTGTGTCAAAGAGAGTTTGGGAGTATTTTGCTTCTTAAGGTGGGAGATATTAGAAT[ag]GGTTACATTTAGCAAA AAGAAAAAAAAGAATAAATCAGATGAAATAAGGCAGGAGACGAT
41191 I A AGCTTGGGCTTTTAGGTCTGGGGCCTCA
41191 P c A ATGACGTGGCAGACCTTAGCATGGGCACAGY
41191 P t A CGCGCCGAGGTTTAGCATGGGCACAGY
41191 T c A GTGTCTGTGCCCATGCTAAGGAGGCCCCAGACCTAAAAGCCCAAGCTCC
41191 T t A GTGTCTGTGCCCATGCTAAAGAGGCCCCAGACCTAAAAGCCCAAGCTCC
41191 IS [ct] TGCAGACACCCCACTGTCTCCTAGAGGGTGAGGAGCTTGGGCTTTTAGGTCTGGGGCCTC[ct]TTAGCATGGGCACAG ACACCCTGGCGTCCCCAGCCTGTGCCAGCCTCAGTCCCCTCAGGT
41193 I A AGCCACACGGTGGGGAATGTAGCTGTCA
41193 P c A ATGACGTGGCAGACCCTGGGAGGAAGAGTGY
41193 P t A CGCGCCGAGGTCTGGGAGGAAGAGTGAY
41193 T c A GCGGTCACTCTTCCTCCCAGGGACAGCTACATTCCCCACCGTGTGGCTGG
41193 T t A GCGGTCACTCTTCCTCCCAGAGACAGCTACATTCCCCACCGTGTGGCTGG
41193 IS [ct] GAGAGCTCAAGACATGAGCTGCTGTGTGGAGCCAGCCACACGGTGGGGAATGTAGCTGTC[ct]CTGGGAGGAAGAGT GACCGCTGGCCTATATGTAGCAAGAAAACGGGACCCCAGTCCTGCA
41194 I A GTTTCCTGGACAAGGGAGCTGATGGCCTT
41194 P a A CGCGCCGAGGATAGGCTTTAGGGTGTCAY
41194 P g A ATGACGTGGCAGACGTAGGCTTTAGGGTGTCAY
41194 T a A CCTGTGACACCCTAAAGCCTATAGGCCATCAGCTCCCTTGTCCAGGAAACAA
41194 T g A CCTGTGACACCCTAAAGCCTACAGGCCATCAGCTCCCTTGTCCAGGAAACAA
41194 IS [ag] gcacaatgcctatggctacatticatagaaatgttttcctggacaagggagctgatggcct[ag]taggctttagggtgtcacaggcacagatttttagggggactatgaagaagaacgttc cacag
41198 I A GGAACGTGTAAGTAGGTAGTAATGAACCCCCTT
41198 P a A CGCGCCGAGGACACAACCAAATCTGCTCY
41198 P g A ATGACGTGGCAGACGCACAACCAAATCTGCTY
41198 T a A AGAAGAGCAGATTTGGTTGTGTAGGGGGTTCATTACTACCTACTTACACGTTCCTT
41198 T g A AGAAGAGCAGATTTGGTTGTGCAGGGGGTTCATTACTACCTACTTACACGTTCCTT
41198 IS [ag] agatgaaggcattatctgagtatttaaggaacgtggtaagtaggtagtaatgaacccccct[ag]cacaacccaaatctgctcttctgaatgcaaaagtaccagttatttcaacatttcaaactg ac
41199 I A CGAACCCAGCTTTACAACCACCCGACT
41199 P a A CGCGCCGAGGATTGTTCTGGAAACAGACAGY
41199 P g A ATGACGTGGCAGACGTTGTTCTGGAAACAGACAY
41199 T a A CAGTCTGTCTGTTTCCAGAACAATGTCGGGTGGTTGTAAAGCTGGGTTCGAA
41199 T g A CAGTCTGTCTGTTTCCAGAACAACGTCGGGTGGTTGTAAAGCTGGGTTCGAA
41199 IS [ag] CTCACCAGGATTCATGTACTGATCTGTTTAATTTCGAACCCAGCTTTACAACCACCCGAC[ag]TTGTTCTGGAAACAGA CAGACTGTAATTGCCTGTATTTGTTCAAGTCTCTACTCTGCTGT
41205 I A GGTGGCCCCGGCATGTCGCA
41205 P c A ATGACGTGGCAGACCTGGCCATGCAGATACY
41205 P t A CGCGCCGAGGTTGGCCATGCAGATACY
41205 T c A CATTGTATCTGCATGGCCAGGCGACATGCCGGGGCCACCGT
41205 T t A CATTGTATCTGCATGGCCAAGCGACATGCCGGGGCCACCGT
41205 IS [ct] tatacacacacgatcgatccatcccacctaacagatgtgtacggtggcccccggcatgtcgc[ct]tggccatgcagatacaatggggagccagtgggcatctcctgaccttagtctggt cctgag
41208 I A GAATCAAATGCTCCTGAATCGATGTGGCCAGGTT
41208 P c A CGCGCCGAGGCTGAAACACATGTCTGAGATY
41208 P g A ATGACGTGGCAGACGTGAAACACATGTCTGAGATY
41208 T c A CTTCATCTCAGACATGTGTTTCAGACCTGGCCACATCGATTCAGGAGCATTTGATTCCA
41208 T g A CTTCATCTCAGACATGTGTTTCACACCTGGCCACATCGATTCAGGAGCATTTGATTCCA
41208 IS [cg] AATTTAGGACCTCTAATGAATATGATGGAATCAAATGCTCCTGAATCGATGTGGCCAGGT[cg]TGAAACACATGTCTGA GATGAAGTCAGCCCTCCTGGGACCTCACGGACTGAGATGAGGAG
41210 I A GCTGTCTTGGAATATTGTTAACTATTAGAATACTTAAAGTGTGCACATCACCCAT
41210 P a A CGCGCCGAGGATTTAGGATTTCTTGGTAATAGTAGY
41210 P g A ATGACGTGGCAGACGTTTAGGATTTCTTGGTAATAGTAGY
41210 T a A TAGGCTACTATTACCAAGAAATCCTAAATTGGGTGATGTGCACACTTTAAGTATTCTAATAGTTAACAATATTCCAAGAC AGCTT
41210 T g A TAGGCTACTATTACCAAGAAATCCTAAACTGGGTGATGTGCACACTTTAAGTATTCTAATAGTTAACAATATTCCAAGAC AGCTT
41210 IS [ag] gaagaagctgtcttggaatattgttaactattagaatactaaagtgtgcacatcaccca[ag]tttaggatttcttggtaatagtagcctatactttagaaaattaaagaggagaggggc c
41216 I A CATCTTTCCTCTAGGTACACTCACTCCCTTAATGATCTCATCCAATTT
41216 P a A CGCGCCGAGGACTTGGCTTTCAACATCATY
41216 P g A ATGACGTGGCAGACGCTTGGCTTTCAACATCAY
41216 T a A ATAGATGATGTTGAAAGCCAAGTAATTGGATGAGATCATTAAGGGAGTGAGTGTACCTAGAGGAAAGATGAA
41216 T g A ATAGATGATGTTGAAAGCCAAGCAATTGGATGAGATCATTAAGGGAGTGAGTGTACCTAGAGGAAAGATGAA
41216 IS [ag] GCTCTTAGAGCTTCATCTTTCCTCTAGGTACACTCACTCCCTTAATGATCTCATCCAATT[ag]CTTGGCTTTCAACATCA TCTATATACTGATGATTCCCAAATTTATATCTGGAGCCCAGAT
41220 I A GTTCTGTCCTTTCCAGAAAGGTGGGAAGGTGGC
41220 P g A ATGACGTGGCAGACGATTTGGGCTTCATACAATTGY
41220 P t A CGCGCCGAGGTATTTGGGCTTCATACAATTGY
41220 T g A ATCCCAATTGTATGAAGCCCAAATCCCACCTTCCCACCTTTCTGGAAAGGACAGAACAT
41220 T t A ATCCCAATTGTATGAAGCCCAAATACCACCTTCCCACCTTTCTGGAAAGGACAGAACAT
41220 IS [gt] CCCCTGAGCTCATACCAGTCCGCCCAATGTTCTGTCCTTTCCAGAAAGGTGGGAAGGTGG[gt]ATTTGGGCTTCATACA ATTGGGATATGCTAGTTGAGGGCCTAGCGGTAAACTTCCCAGAA
41228 I A CACGGGGCTTCCCAACCAGACCGA
41228 P c A ATGACGTGGCAGACCTCATGGTGCAAGAAGCY
41228 P t A CGCGCCGAGGTTCATGGTGCAAGAAGCY
41228 T c A CCAGGCTTCTTGCACCATGAGCGGTCTGGTTGGGAAGCCCCGTGGG
41228 T t A CCAGGCTTCTTGCACCATGAACGGTCTGGTTGGGAAGCCCCGTGGG
41228 IS [ct] ccaagaggagagcctgccacgcctcctatgctcacccacggggctcccaatccagaccg[ct]tcatggtgcaagaagcctgggaagacccagagcaagatctcatcatcctc agacagagg
41248 I A GACCCCCAGCAGGGGGAAGGCT
41248 P c A CGCGCCGAGGCCGGGCTACATGAGGGY
41248 P g A ATGACGTGGCAGACGGGGCTACATGAGGGY
41248 T c A GGCTCCCTCATGTAGCCCGGCCTTCCCCCTGCTGGGGGTCCA
41248 T g A GGCTCCCTCATGTAGCCCGGCCTTCCCCCTGCTGGGGGTCCA
41248 IS [cg] catcagaggcagactgtgcagaaagcagccgatgtggtggcccccagccagggggaaggc[cg]gggctacatgagggagcccgctgccctgcatgccagggcacaggcg cacacgcatacact
41250 I S CGCATTCCCACACTGGCCCRCTTTTCTTCATCT
41250 P c S ATGACGTGGCAGACGCAACCTTCTGGGCY
41250 P t S CGCGCCGAGGACAACCTTCTGGGCCY
41250 T c S GCTGGGCCCAGAAGGTTGCGATGAAGAAAAGYGGGCCAGTGTGGGAATGCGGC
41250 T t S GCTGGGCCCAGAAGGTTGTGATGAAGAAAAGYGGGCCAGTGTGGGAATGCGGC

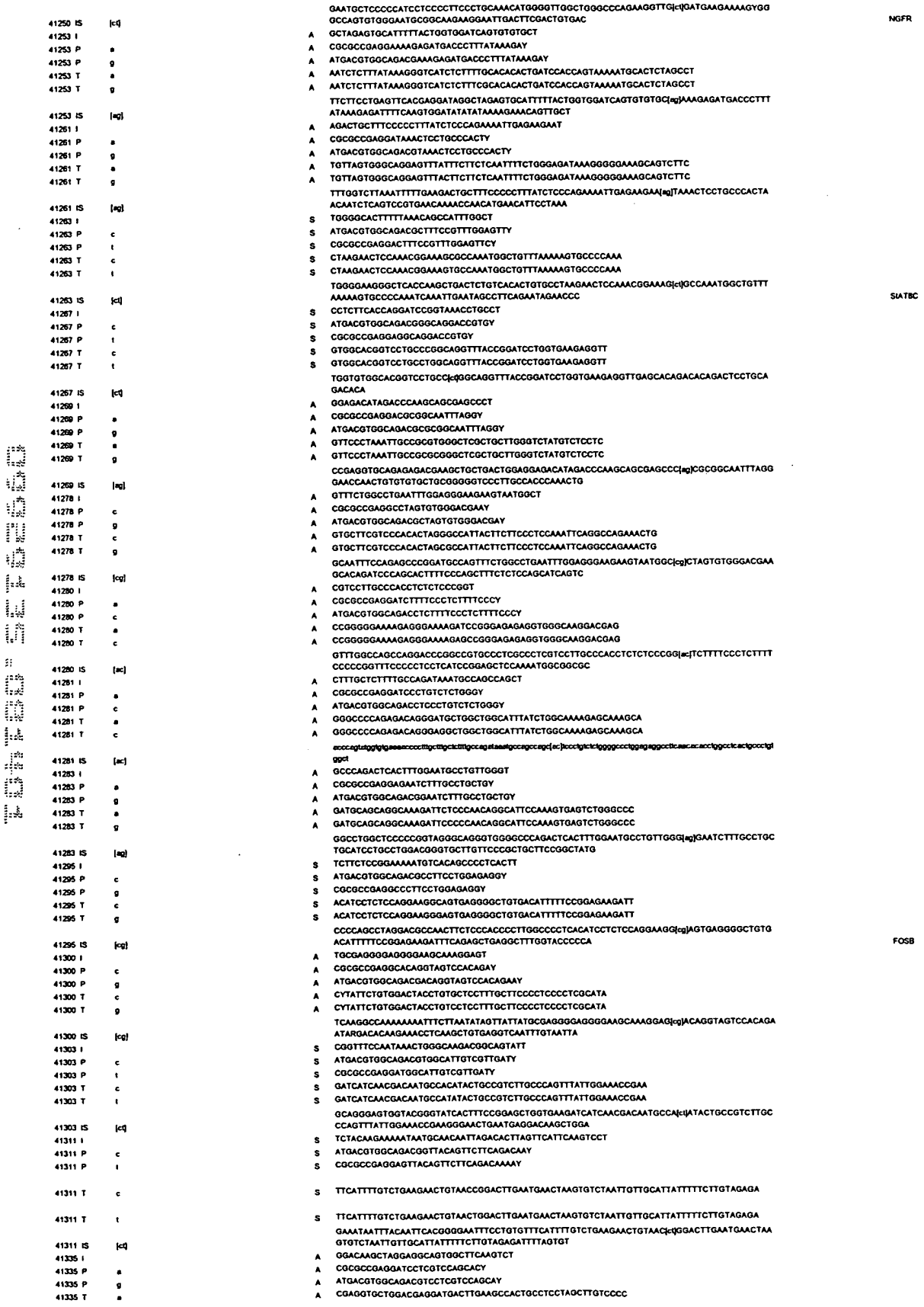

GAATGCTCCCCCATCCTCCCCTTCCCTGCAAACATGGGGTTGGCTGGGCCCAGAAGGTTG[ct]GATGAAGAAAAGYGG
41250 IS [ct] GCCAGTGTGGGAATGCGGCAAGAAGGAATTGACTTCGACTGTGAC NGFR
41253 I A GCTAGAGTGCATTTTTACTGGTGGATCAGTGTGTGCT
41253 P a A CGCGCCGAGGAAAAGAGATGACCCTTTATAAAGAY
41253 P g A ATGACGTGGCAGACGAAAGAGATGACCCTTTATAAAGAY
41253 T a A AATCTCTTTATAAAGGGTCATCTCTTTTGCACACACTGATCCACCAGTAAAAATGCACTCTAGCCT
41253 T g A AATCTCTTTATAAAGGGTCATCTCTTTCGCACACACTGATCCACCAGTAAAAATGCACTCTAGCCT
TTCTTCCTGAGTTCACGAGGATAGGCTAGAGTGCATTTTTACTGGTGGATCAGTGTGTGC[ag]AAAGAGATGACCCTTT
41253 IS [ag] ATAAAGAGATTTTCAAGTGGATATATATAAAAGAAACAGTTGCT
41261 I A AGACTGCTTTCCCCCTTTATCTCCCAGAAAATTGAGAAGAAT
41261 P a A CGCGCCGAGGATAAACTCCTGCCCACTY
41261 P g A ATGACGTGGCAGACGTAAACTCCTGCCCACTY
41261 T a A TGTTAGTGGGCAGGAGTTTATTTCTTCTCAATTTTCTGGGAGATAAAGGGGGAAAGCAGTCTTC
41261 T g A TGTTAGTGGGCAGGAGTTTACTTCTTCTCAATTTTCTGGGAGATAAAGGGGGAAAGCAGTCTTC
TTTGGTCTTAAATTTTTGAAGACTGCTTTCCCCCTTTATCTCCCAGAAAATTGAGAAGAA[ag]TAAACTCCTGCCCACTA
41261 IS [ag] ACAATCTCAGTCCGTGAACAAAACCAACATGAACATTCCTAAA
41263 I S TGGGGCACTTTTTAAACAGCCATTTGGCT
41263 P c S ATGACGTGGCAGACGCTTTCCGTTTGGAGTTY
41263 P t S CGCGCCGAGGACTTTCCGTTTGGAGTTCY
41263 T c S CTAAGAACTCCAAACGGAAAGCGCCAAATGGCTGTTTAAAAAGTGCCCCAAA
41263 T t S CTAAGAACTCCAAACGGAAAGTGCCAAATGGCTGTTTAAAAAGTGCCCCAAA
TGGGGAAGGGCTCACCAAGCTGACTCTGTCACACTGTGCCTAAGAACTCCAAACGGAAAG[ct]GCCAAATGGCTGTTT
41263 IS [ct] AAAAAGTGCCCCAAATCAAATTGAATAGCCTTCAGAATAGAACCC SIATBC
41267 I S CCTCTTCACCAGGATCCGGTAAACCTGCCT
41267 P c S ATGACGTGGCAGACGGGCAGGACCGTGY
41267 P t S CGCGCCGAGGAGGCAGGACCGTGY
41267 T c S GTGGCACGGTCCTGCCCGGCAGGTTTACCGGATCCTGGTGAAGAGGTT
41267 T t S GTGGCACGGTCCTGCCTGGCAGGTTTACCGGATCCTGGTGAAGAGGTT
TGGTGTGGCACGGTCCTGCC[cg]GGCAGGTTTACCGGATCCTGGTGAAGAGGTTGAGCACAGACACAGACTCCTGCA
41267 IS [ct] GACACA
41269 I A GGAGACATAGACCCAAGCAGCGAGCCCT
41269 P a A CGCGCCGAGGACGCGGCAATTTAGGY
41269 P g A ATGACGTGGCAGACGCGCGGCAATTTAGGY
41269 T a A GTTCCCTAAATTGCCGCGTGGGCTCGCTGCTTGGGTCTATGTCTCCTC
41269 T g A GTTCCCTAAATTGCCGCGCGGGCTCGCTGCTTGGGTCTATGTCTCCTC
CCGAGGTGCAGAGAGACGAAGCTGCTGACTGGAGGAGACATAGACCCAAGCAGCGAGCCC[ag]CGCGGCAATTTAGG
41269 IS [ag] GAACCAACTGTGTGTGCTGCGGGGGTCCCTTGCCACCCAAACTG
41278 I A GTTTCTGGCCTGAATTTGGAGGGAAGAAGTAATGGCT
41278 P c A CGCGCCGAGGCCTAGTGTGGGACGAAY
41278 P g A ATGACGTGGCAGACGCTAGTGTGGGACGAY
41278 T c A GTGCTTCGTCCCACACTAGGGCCATTACTTCTTCCCTCCAAATTCAGGCCAGAAACTG
41278 T g A GTGCTTCGTCCCACACTAGCGCCATTACTTCTTCCCTCCAAATTCAGGCCAGAAACTG
GCAATTTCCAGAGCCCGGATGCCAGTTTCTGGCCTGAATTTGGAGGGAAGAAGTAATGGC[cg]CTAGTGTGGGACGAA
41278 IS [cg] GCACAGATCCCAGCACTTTTCCCAGCTTTCTCTCCAGCATCAGTC
41280 I A CGTCCTTGCCCACCTCTCTCCCGGT
41280 P a A CGCGCCGAGGATCTTTTCCCTCTTTTCCCY
41280 P c A ATGACGTGGCAGACCTCTTTTCCCTCTTTTCCCY
41280 T a A CCGGGGGAAAAGAGGGAAAAGATCCGGGAGAGAGGTGGGCAAGGACGAG
41280 T c A CCGGGGGAAAAGAGGGAAAAGAGCCGGGAGAGAGGTGGGCAAGGACGAG
GTTTGGCCAGCCAGGACCCGGCCGTGCCCTCGCCCTCGTCCTTGCCCACCTCTCTCCCGG[ac]TCTTTTCCCTCTTTT
41280 IS [ac] CCCCCGGTTTCCCCCTCCTCATCCGGAGCTCCAAAATGGCGGCGC
41281 I A CTTTGCTCTTTTGCCAGATAAATGCCAGCCAGCT
41281 P a A CGCGCCGAGGATCCCTGTCTCTGGGY
41281 P c A ATGACGTGGCAGACCTCCCTGTCTCTGGGY
41281 T a A GGGCCCCAGAGACAGGGATGCTGGCTGGCATTTATCTGGCAAAAGAGCAAAGCA
41281 T c A GGGCCCCAGAGACAGGGAGGCTGGCTGGCATTTATCTGGCAAAAGAGCAAAGCA
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41281 IS [ac] ggct
41283 I A GCCCAGACTCACTTTGGAATGCCTGTTGGGT
41283 P a A CGCGCCGAGGAGAATCTTTGCCTGCTGY
41283 P g A ATGACGTGGCAGACGGAATCTTTGCCTGCTGY
41283 T a A GATGCAGCAGGCAAAGATTCTCCCAACAGGCATTCCAAAGTGAGTCTGGGCCC
41283 T g A GATGCAGCAGGCAAAGATTCCCCCAACAGGCATTCCAAAGTGAGTCTGGGCCC
GGCCTGGCTCCCCCGGTAGGGCAGGGTGGGGCCCAGACTCACTTTGGAATGCCTGTTGGG[ag]GAATCTTTGCCTGC
41283 IS [ag] TGCATCCTGCCTGGACGGGTGCTTGTTCCCGCTGCTTCCGGCTATG
41295 I S TCTTCTCCGGAAAAATGTCACAGCCCCTCACTT
41295 P c S ATGACGTGGCAGACGCCTTCCTGGAGAGGY
41295 P g S CGCGCCGAGGCCCTTCCTGGAGAGGY
41295 T c S ACATCCTCTCCAGGAAGGCAGTGAGGGGCTGTGACATTTTTCCGGAGAAGATT
41295 T g S ACATCCTCTCCAGGAAGGGAGTGAGGGGCTGTGACATTTTTCCGGAGAAGATT
CCCCAGCCTAGGACGCCAACTTCTCCCACCCCTTGGCCCCTCACATCCTCTCCAGGAAGG[cg]AGTGAGGGGCTGTG
41295 IS [cg] ACATTTTTCCGGAGAAGATTTCAGAGCTGAGGCTTTGGTACCCCCA FOSB
41300 I A TGCGAGGGGAGGGGAAGCAAAGGAGT
41300 P c A CGCGCCGAGGCACAGGTAGTCCACAGAY
41300 P g A ATGACGTGGCAGACGACAGGTAGTCCACAGAAY
41300 T c A CYTATTCTGTGGACTACCTGTGCTCCTTTGCTTCCCCTCCCCTCGCATA
41300 T g A CYTATTCTGTGGACTACCTGTCCTCCTTTGCTTCCCCTCCCCTCGCATA
TCAAGGCCAAAAAAAATTTCTTAATATAGTTATTATGCGAGGGGAGGGGAAGCAAAGGAG[cg]ACAGGTAGTCCACAGA
41300 IS [cg] ATARGACACAAGAAACCTCAAGCTGTGAGGTCAATTTGTAATTA
41303 I S CGGTTTCCAATAAACTGGGCAAGACGGCAGTATT
41303 P c S ATGACGTGGCAGACGTGGCATTGTCGTTGATY
41303 P t S CGCGCCGAGGATGGCATTGTCGTTGATY
41303 T c S GATCATCAACGACAATGCCACATACTGCCGTCTTGCCCAGTTTATTGGAAACCGAA
41303 T t S GATCATCAACGACAATGCCATATACTGCCGTCTTGCCCAGTTTATTGGAAACCGAA
GCAGGGAGTGGTACGGGTATCACTTTCCGGAGCTGGTGAAGATCATCAACGACAATGCCA[ct]ATACTGCCGTCTTGC
41303 IS [ct] CCAGTTTATTGGAAACCGAAGGGAACTGAATGAGGACAAGCTGGA
41311 I S TCTACAAGAAAAATAATGCAACAATTAGACACTTAGTTCATTCAAGTCCT
41311 P c S ATGACGTGGCAGACGGTTACAGTTCTTCAGACAAY
41311 P t S CGCGCCGAGGAGTTACAGTTCTTCAGACAAAAY
41311 T c S TTCATTTTGTCTGAAGAACTGTAACCGGACTTGAATGAACTAAGTGTCTAATTGTTGCATTATTTTTCTTGTAGAGA
41311 T t S TTCATTTTGTCTGAAGAACTGTAACTGGACTTGAATGAACTAAGTGTCTAATTGTTGCATTATTTTTCTTGTAGAGA
GAAATAATTTACAATTCACGGGGAATTTCCTGTGTTTCATTTTGTCTGAAGAACTGTAAC[ct]GGACTTGAATGAACTAA
41311 IS [ct] GTGTCTAATTGTTGCATTATTTTTCTTGTAGAGATTTTAGTGT
41335 I A GGACAAGCTAGGAGGCAGTGGCTTCAAGTCT
41335 P a A CGCGCCGAGGATCCTCGTCCAGCACY
41335 P g A ATGACGTGGCAGACGTCCTCGTCCAGCAY
41335 T a A CGAGGTGCTGGACGAGGATGACTTGAAGCCACTGCCTCCTAGCTTGTCCCC

FIGURE 129D

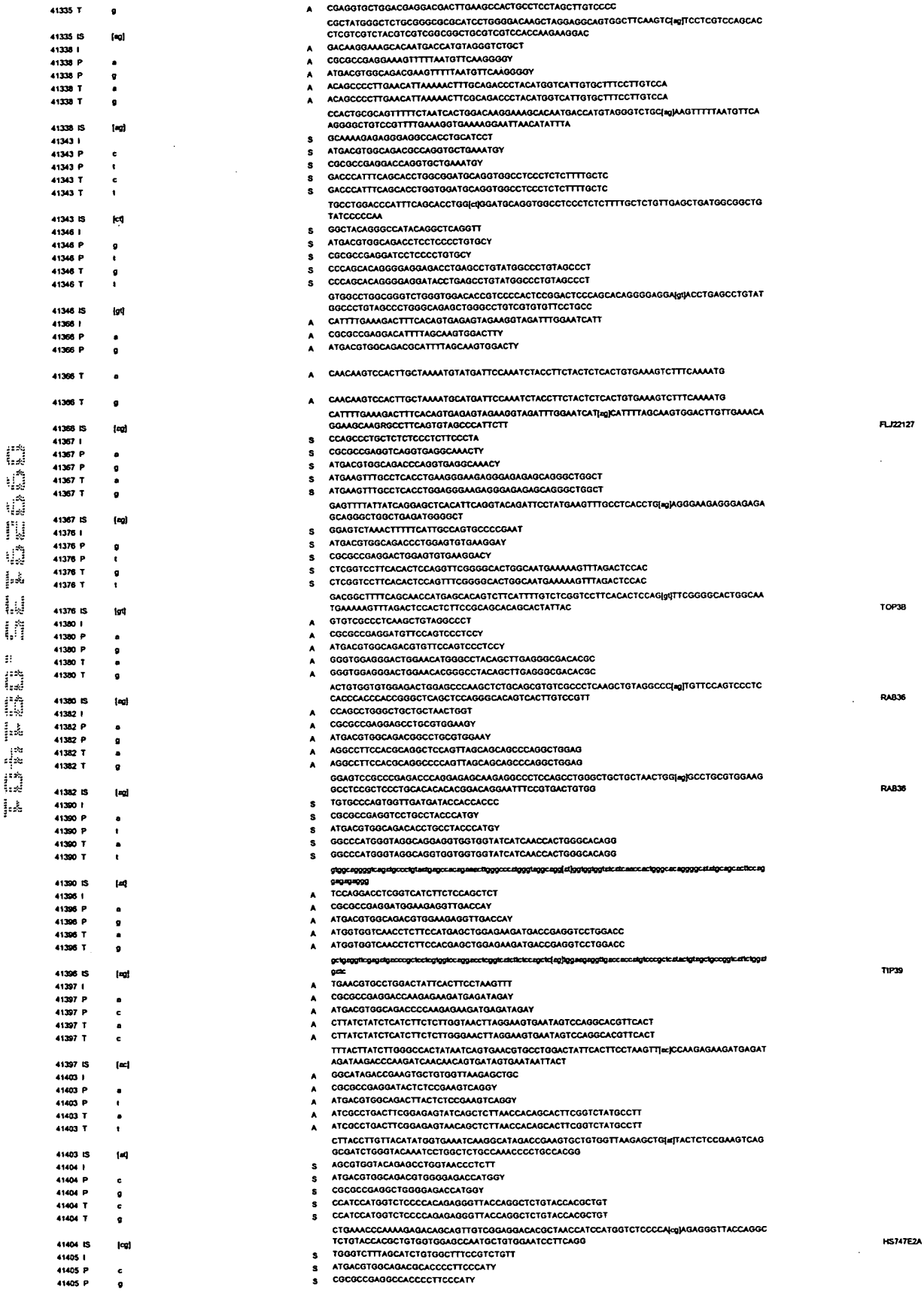
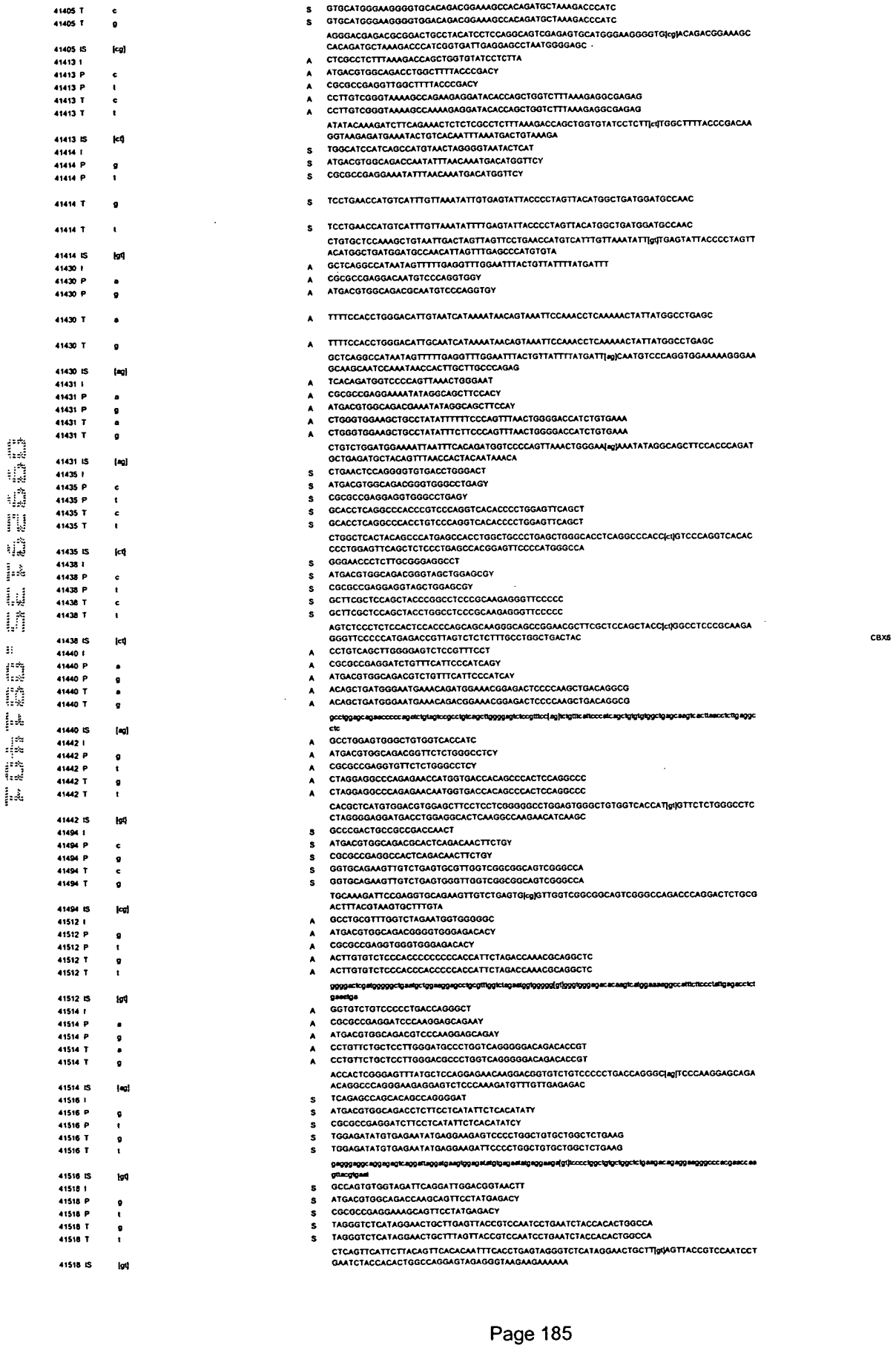

41335 T g A CGAGGTGCTGGACGAGGACGACTTGAAGCCACTGCCTCCTAGCTTGTCCCC
CGCTATGGGCTCTGCGGGCGCGCATCCTGGGGACAAGCTAGGAGGCAGTGGCTTCAAGTC[ag]TCCTCGTCCAGCAC
41335 IS [ag] CTCGTCGTCTACGTCGTCGGCGGCTGCGTCGTCCACCAAGAAGGAC
41338 I A GACAAGGAAAGCACAATGACCATGTAGGGTCTGCT
41338 P a A CGCGCCGAGGAAAGTTTTTAATGTTCAAGGGGY
41338 P g A ATGACGTGGCAGACGAAGTTTTTAATGTTCAAGGGGY
41338 T a A ACAGCCCCTTGAACATTAAAAACTTTGCAGACCCTACATGGTCATTGTGCTTTCCTTGTCCA
41338 T g A ACAGCCCCTTGAACATTAAAAACTTCGCAGACCCTACATGGTCATTGTGCTTTCCTTGTCCA
CCACTGCGCAGTTTTTCTAATCACTGGACAAGGAAAGCACAATGACCATGTAGGGTCTGC[ag]AAGTTTTTAATGTTCA
41338 IS [ag] AGGGGCTGTCCGTTTTGAAAGGTGAAAAGGAATTAACATATTTA
41343 I S GCAAAAGAGAGGGAGGCCACCTGCATCCT
41343 P c S ATGACGTGGCAGACGCCAGGTGCTGAAATGY
41343 P t S CGCGCCGAGGACCAGGTGCTGAAATGY
41343 T c S GACCCATTTCAGCACCTGGCGGATGCAGGTGGCCTCCCTCTCTTTTGCTC
41343 T t S GACCCATTTCAGCACCTGGTGGATGCAGGTGGCCTCCCTCTCTTTTGCTC
TGCCTGGACCCATTTCAGCACCTGG[c]GGATGCAGGTGGCCTCCCTCTCTTTTGCTCTGTTGAGCTGATGGCGGCTG
41343 IS [cg] TATCCCCCAA
41346 I S GGCTACAGGGCCATACAGGCTCAGGTT
41346 P g S ATGACGTGGCAGACCTCCTCCCCTGTGCY
41346 P t S CGCGCCGAGGATCCTCCCCTGTGCY
41346 T g S CCCAGCACAGGGGAGGAGACCTGAGCCTGTATGGCCCTGTAGCCCT
41346 T t S CCCAGCACAGGGGAGGATACCTGAGCCTGTATGGCCCTGTAGCCCT
GTGGCCTGGCGGGTCTGGGTGGACACCGTCCCCACTCCGGACTCCCAGCACAGGGGAGGA[gt]ACCTGAGCCTGTAT
41346 IS [gt] GGCCCTGTAGCCCTGGGCAGAGCTGGGCCTGTCGTGTGTTCCTGCC
41366 I A CATTTTGAAAGACTTTCACAGTGAGAGTAGAAGGTAGATTTGGAATCATT
41366 P a A CGCGCCGAGGACATTTTAGCAAGTGGACTTY
41366 P g A ATGACGTGGCAGACGCATTTTAGCAAGTGGACTY
41366 T a A CAACAAGTCCACTTGCTAAAATGTATGATTCCAAATCTACCTTCTACTCTCACTGTGAAAGTCTTTCAAAATG
41366 T g A CAACAAGTCCACTTGCTAAAATGCATGATTCCAAATCTACCTTCTACTCTCACTGTGAAAGTCTTTCAAAATG
CATTTTGAAAGACTTTCACAGTGAGAGTAGAAGGTAGATTTGGAATCAT[ag]CATTTTAGCAAGTGGACTTGTTGAAACA
41366 IS [ag] GGAAGCAAGRGCCTTCAGTGTAGCCCATTCTT FLJ22127
41367 I S CCAGCCCTGCTCTCTCCCTCTTCCCTA
41367 P a S CGCGCCGAGGTCAGGTGAGGCAAACTY
41367 P g S ATGACGTGGCAGACCCAGGTGAGGCAAACY
41367 T a S ATGAAGTTTGCCTCACCTGAAGGGAAGAGGGAGAGAGCAGGGCTGGCT
41367 T g S ATGAAGTTTGCCTCACCTGGAGGGAAGAGGGAGAGAGCAGGGCTGGCT
GAGTTTTATTATCAGGAGCTCACATTCAGGTACAGATTCCTATGAAGTTTGCCTCACCTG[ag]AGGGAAGAGGGAGAGA
41367 IS [ag] GCAGGGCTGGCTGAGATGGGGCT
41376 I S GGAGTCTAAACTTTTTCATTGCCAGTGCCCCGAAT
41376 P g S ATGACGTGGCAGACCCTGGAGTGTGAAGGAY
41376 P t S CGCGCCGAGGACTGGAGTGTGAAGGACY
41376 T g S CTCGGTCCTTCACACTCCAGGTTCGGGGCACTGGCAATGAAAAAGTTTAGACTCCAC
41376 T t S CTCGGTCCTTCACACTCCAGTTTCGGGGCACTGGCAATGAAAAAGTTTAGACTCCAC
GACGGCTTTTCAGCAACCATGAGCACAGTCTTCATTTTGTCTCGGTCCTTCACACTCCAG[gt]TTCGGGGCACTGGCAA
41376 IS [gt] TGAAAAAGTTTAGACTCCACTCTTCCGCAGCACAGCACTATTAC TOP3B
41380 I A GTGTCGCCCTCAAGCTGTAGGCCCT
41380 P a A CGCGCCGAGGATGTTCCAGTCCCTCCY
41380 P g A ATGACGTGGCAGACGTGTTCCAGTCCCTCCY
41380 T a A GGGTGGAGGGACTGGAACATGGGCCTACAGCTTGAGGGCGACACGC
41380 T g A GGGTGGAGGGACTGGAACACGGGCCTACAGCTTGAGGGCGACACGC
ACTGTGGTGTGGAGACTGGAGCCCAAGCTCTGCAGCGTGTCGCCCTCAAGCTGTAGGCCC[ag]TGTTCCAGTCCCTC
41380 IS [ag] CACCCACCCACCGGGCTCAGCTCCAGGGCACAGTCACTTGTCCGTT RAB36
41382 I A CCAGCCTGGGCTGCTGCTAACTGGT
41382 P a A CGCGCCGAGGAGCCTGCGTGGAAGY
41382 P g A ATGACGTGGCAGACGGCCTGCGTGGAAY
41382 T a A AGGCCTTCCACGCAGGCTCCAGTTAGCAGCAGCCCAGGCTGGAG
41382 T g A AGGCCTTCCACGCAGGCCCCAGTTAGCAGCAGCCCAGGCTGGAG
GGAGTCCGCCCGAGACCCAGGAGAGCAAGAGGCCCTCCAGCCTGGGCTGCTGCTAACTGG[ag]GCCTGCGTGGAAG
41382 IS [ag] GCCTCCGCTCCCTGCACACACACGGACAGGAATTTCCGTGACTGTGG RAB36
41390 I S TGTGCCCAGTGGTTGATGATACCACCACCC
41390 P a S CGCGCCGAGGTCCTGCCTACCCATGY
41390 P t S ATGACGTGGCAGACACCTGCCTACCCATGY
41390 T a S GGCCCATGGGTAGGCAGGAGGTGGTGGTATCATCAACCACTGGGCACAGG
41390 T t S GGCCCATGGGTAGGCAGGTGGTGGTGGTATCATCAACCACTGGGCACAGG
gtggcaggggtcagatgccctgtaatgagccacagaaactgggcccatgggtaggcagg[ct]ggtggtggtatcatcaaccactgggcacaggggcatatgcagccactccag
41390 IS [at] gaqaqaqqg
41396 I A TCCAGGACCTCGGTCATCTTCTCCAGCTCT
41396 P a A CGCGCCGAGGATGGAAGAGGTTGACCAY
41396 P g A ATGACGTGGCAGACGTGGAAGAGGTTGACCAY
41396 T a A ATGGTGGTCAACCTCTTCCATGAGCTGGAGAAGATGACCGAGGTCCTGGACC
41396 T g A ATGGTGGTCAACCTCTTCCACGAGCTGGAGAAGATGACCGAGGTCCTGGACC
gctgaggttcgagatgacccgctcctcgtggtccaggacctcggtcatctctccagctc[ag]tggaagaggtgaccaccatgtccgctcatactgtagctgccggtcatctggct
41396 IS [cg] gatc TIP39
41397 I A TGAACGTGCCTGGACTATTCACTTCCTAAGTTT
41397 P a A CGCGCCGAGGACCAAGAAGAAGATGAGATAGAY
41397 P c A ATGACGTGGCAGACCCCAAGAAGAAGATGAGATAGAY
41397 T a A CTTATCTATCTCATCTTCTCTTGGTAACTTAGGAAGTGAATAGTCCAGGCACGTTCACT
41397 T c A CTTATCTATCTCATCTTCTCTTGGGAACTTAGGAAGTGAATAGTCCAGGCACGTTCACT
TTTACTTATCTTGGGCCACTATAATCAGTGAACGTGCCTGGACTATTCACTTCCTAAGTT[ac]CCAAGAGAAGATGAGAT
41397 IS [ac] AGATAAGACCCAAGATCAACAACAGTGATAGTGAATAATTACT
41403 I A GGCATAGACCGAAGTGCTGTGGTTAAGAGCTGC
41403 P a A CGCGCCGAGGATACTCTCCGAAGTCAGGY
41403 P t A ATGACGTGGCAGACTTACTCTCCGAAGTCAGGY
41403 T a A ATCGCCTGACTTCGGAGAGTATCAGCTCTTAACCACAGCACTTCGGTCTATGCCTT
41403 T t A ATCGCCTGACTTCGGAGAGTAACAGCTCTTAACCACAGCACTTCGGTCTATGCCTT
CTTACCTTGTTACATATGGTGAAATCAAGGCATAGACCGAAGTGCTGTGGTTAAGAGCTG[at]TACTCTCCGAAGTCAG
41403 IS [at] GCGATCTGGGTACAAATCCTGGCTCTGCCAAACCCCTGCCACGG
41404 I S AGCGTGGTACAGAGCCTGGTAACCCTCTT
41404 P c S ATGACGTGGCAGACGTGGGGAGACCATGGY
41404 P g S CGCGCCGAGGCTGGGGAGACCATGGY
41404 T c S CCATCCATGGTCTCCCCACAGAGGGTTACCAGGCTCTGTACCACGCTGT
41404 T g S CCATCCATGGTCTCCCCAGAGAGGGTTACCAGGCTCTGTACCACGCTGT
CTGAAACCCAAAAGAGACAGCAGTTGTCGGAGGACACGCTAACCATCCATGGTCTCCCCA[cg]AGAGGGTTACCAGGC
41404 IS [cg] TCTGTACCACGCTGTGGTGGAGCCAATGCTGTGGAATCCTTCAGG HS747E2A
41405 I S TGGGTCTTTAGCATCTGTGGCTTTCCGTCTGTT
41405 P c S ATGACGTGGCAGACGCACCCCTTCCCATY
41405 P g S CGCGCCGAGGCCACCCCTTCCCATY

FIGURE 129D


41405 T c S GTGCATGGGAAGGGGTGCACAGACGGAAAGCCACAGATGCTAAAGACCCATC
41405 T g S GTGCATGGGAAGGGGTGGACAGACGGAAAGCCACAGATGCTAAAGACCCATC
AGGGACGAGACGCGGACTGCCTACATCCTCCAGGCAGTCGAGAGTGCATGGGAAGGGGTG[cg]ACAGACGGAAAGC
41405 IS [cg] CACAGATGCTAAAGACCCATCGGTGATTGAGGAGCCTAATGGGGAGC
41413 I A CTCGCCTCTTTAAAGACCAGCTGGTGTATCCTCTTA
41413 P c A ATGACGTGGCAGACCTGGCTTTTACCCGACY
41413 P t A CGCGCCGAGGTTGGCTTTTACCCGACY
41413 T c A CCTTGTCGGGTAAAAGCCAGAAGAGGATACACCAGCTGGTCTTTAAAGAGGCGAGAG
41413 T t A CCTTGTCGGGTAAAAGCCAAAAGAGGATACACCAGCTGGTCTTTAAAGAGGCGAGAG
ATATACAAAGATCTTCAGAAACTCTCTCGCCTCTTTAAAGACCAGCTGGTGTATCCTCTT[ct]TGGCTTTTACCCGACAA
41413 IS [ct] GGTAAGAGATGAAATACTGTCACAATTTAAATGACTGTAAAGA
41414 I S TGGCATCCATCAGCCATGTAACTAGGGGTAATACTCAT
41414 P g S ATGACGTGGCAGACCAATATTTAACAAATGACATGGTTCY
41414 P t S CGCGCCGAGGAAATATTTAACAAATGACATGGTTCY
41414 T g S TCCTGAACCATGTCATTTGTTAAATATTGTGAGTATTACCCCTAGTTACATGGCTGATGGATGCCAAC
41414 T t S TCCTGAACCATGTCATTTGTTAAATATTTTGAGTATTACCCCTAGTTACATGGCTGATGGATGCCAAC
CTGTGCTCCAAAGCTGTAATTGACTAGTTAGTTCCTGAACCATGTCATTTGTTAAATATT[gt]TGAGTATTACCCCTAGTT
41414 IS [gt] ACATGGCTGATGGATGCCAACATTAGTTTGAGCCCATGTGTA
41430 I A GCTCAGGCCATAATAGTTTTTGAGGTTTGGAATTTACTGTTATTTTATGATTT
41430 P a A CGCGCCGAGGACAATGTCCCAGGTGGY
41430 P g A ATGACGTGGCAGACGCAATGTCCCAGGTGY
41430 T a A TTTTCCACCTGGGACATTGTAATCATAAAATAACAGTAAATTCCAAACCTCAAAAACTATTATGGCCTGAGC
41430 T g A TTTTCCACCTGGGACATTGCAATCATAAAATAACAGTAAATTCCAAACCTCAAAAACTATTATGGCCTGAGC
GCTCAGGCCATAATAGTTTTTGAGGTTTGGAATTTACTGTTATTTTATGATT[ag]CAATGTCCCAGGTGGAAAAAGGGAA
41430 IS [ag] GCAAGCAATCCAAATAACCACTTGCTTGCCCAGAG
41431 I A TCACAGATGGTCCCCAGTTAAACTGGGAAT
41431 P a A CGCGCCGAGGAAAATATAGGCAGCTTCCACY
41431 P g A ATGACGTGGCAGACGAAATATAGGCAGCTTCCAY
41431 T a A CTGGGTGGAAGCTGCCTATATTTTTTCCCAGTTTAACTGGGGACCATCTGTGAAA
41431 T g A CTGGGTGGAAGCTGCCTATATTTCTTCCCAGTTTAACTGGGGACCATCTGTGAAA
CTGTCTGGATGGAAAATTAATTTCACAGATGGTCCCCAGTTAAACTGGGAA[ag]AAATATAGGCAGCTTCCACCCAGAT
41431 IS [ag] GCTGAGATGCTACAGTTTAACCACTACAATAAACA
41435 I S CTGAACTCCAGGGGTGTGACCTGGGACT
41435 P c S ATGACGTGGCAGACGGGTGGGCCTGAGY
41435 P t S CGCGCCGAGGAGGTGGGCCTGAGY
41435 T c S GCACCTCAGGCCCACCCGTCCCAGGTCACACCCCTGGAGTTCAGCT
41435 T t S GCACCTCAGGCCCACCTGTCCCAGGTCACACCCCTGGAGTTCAGCT
CTGGCTCACTACAGCCCATGAGCCACCTGGCTGCCCTGAGCTGGGCACCTCAGGCCCACC[ct]GTCCCAGGTCACAC
41435 IS [ct] CCCTGGAGTTCAGCTCTCCCTGAGCCACGGAGTTCCCCATGGGCCA
41438 I S GGGAACCCTCTTGCGGGAGGCCT
41438 P c S ATGACGTGGCAGACGGGTAGCTGGAGCGY
41438 P t S CGCGCCGAGGAGGTAGCTGGAGCGY
41438 T c S GCTTCGCTCCAGCTACCCGGCCTCCCGCAAGAGGGTTCCCCC
41438 T t S GCTTCGCTCCAGCTACCTGGCCTCCCGCAAGAGGGTTCCCCC
AGTCTCCCTCTCCACTCCACCCAGCAGCAAGGGCAGCCGGAACGCTTCGCTCCAGCTACC[ct]GGCCTCCCGCAAGA
41438 IS [ct] GGGTTCCCCCATGAGACCGTTAGTCTCTCTTTGCCTGGCTGACTAC CBX6
41440 I A CCTGTCAGCTTGGGGAGTCTCCGTTTCCT
41440 P a A CGCGCCGAGGATCTGTTTCATTCCCATCAGY
41440 P g A ATGACGTGGCAGACGTCTGTTTCATTCCCATCAY
41440 T a A ACAGCTGATGGGAATGAAACAGATGGAAACGGAGACTCCCCAAGCTGACAGGCG
41440 T g A ACAGCTGATGGGAATGAAACAGACGGAAACGGAGACTCCCCAAGCTGACAGGCG
gccctggagcagaacccccagatctgtagtccgcctgtcagcttgggggagtctccgttccc[ag]tctgttcattcccatcagctgtgtgtggctgagcaagtcactaaacctctgaggc
41440 IS [ag] ctc
41442 I A GCCTGGAGTGGGCTGTGGTCACCATC
41442 P g A ATGACGTGGCAGACGGTTCTCTGGGCCTCY
41442 P t A CGCGCCGAGGTGTTCTCTGGGCCTCY
41442 T g A CTAGGAGGCCCAGAGAACCATGGTGACCACAGCCCACTCCAGGCCC
41442 T t A CTAGGAGGCCCAGAGAACAATGGTGACCACAGCCCACTCCAGGCCC
CACGCTCATGTGGACGTGGAGCTTCCTCCTCGGGGGCCTGGAGTGGGCTGTGGTCACCAT[gt]GTTCTCTGGGCCTC
41442 IS [gt] CTAGGGGAGGATGACCTGGAGGCACTCAAGGCCAAGAACATCAAGC
41494 I S GCCCGACTGCCGCCGACCAACT
41494 P c S ATGACGTGGCAGACGCACTCAGACAACTTCTGY
41494 P g S CGCGCCGAGGCCACTCAGACAACTTCTGY
41494 T c S GGTGCAGAAGTTGTCTGAGTGCGTTGGTCGGCGGCAGTCGGGCCA
41494 T g S GGTGCAGAAGTTGTCTGAGTGGGTTGGTCGGCGGCAGTCGGGCCA
TGCAAAGATTCCGAGGTGCAGAAGTTGTCTGAGTG[cg]GTTGGTCGGCGGCAGTCGGGCCAGACCCAGGACTCTGCG
41494 IS [cg] ACTTTACGTAAGTGCTTTGTA
41512 I A GCCTGCGTTTGGTCTAGAATGGTGGGGGC
41512 P g A ATGACGTGGCAGACGGGGTGGGAGACACY
41512 P t A CGCGCCGAGGTGGGTGGGAGACACY
41512 T g A ACTTGTGTCTCCCACCCCCCCCCACCATTCTAGACCAAACGCAGGCTC
41512 T t A ACTTGTGTCTCCCACCCACCCCCACCATTCTAGACCAAACGCAGGCTC
ggggactcgatggggctgaatgctggaaggagcctgcgttggtctagaatggtgggggt[gt]gggtgggagcacacaagtcatggaaaaggccatttctcccctattgagacctct
41512 IS [gt] gaactga
41514 I A GGTGTCTGTCCCCCTGACCAGGGCT
41514 P a A CGCGCCGAGGATCCCAAGGAGCAGAAY
41514 P g A ATGACGTGGCAGACGTCCCAAGGAGCAGAY
41514 T a A CCTGTTCTGCTCCTTGGGATGCCCTGGTCAGGGGGACAGACACCGT
41514 T g A CCTGTTCTGCTCCTTGGGACGCCCTGGTCAGGGGGACAGACACCGT
ACCACTCGGGAGTTTATGCTCCAGGAGAACAAGGACGGTGTCTGTCCCCCTGACCAGGGC[ag]TCCCAAGGAGCAGA
41514 IS [ag] ACAGGCCCAGGGAAGAGGAGTCTCCCAAAGATGTTTGTTGAGAGAC
41516 I S TCAGAGCCAGCACAGCCAGGGGAT
41516 P g S ATGACGTGGCAGACCTCTTCCTCATATTCTCACATATY
41516 P t S CGCGCCGAGGATCTTCCTCATATTCTCACATATCY
41516 T g S TGGAGATATGTGAGAATATGAGGAAGAGTCCCCTGGCTGTGCTGGCTCTGAAG
41516 T t S TGGAGATATGTGAGAATATGAGGAAGATTCCCCTGGCTGTGCTGGCTCTGAAG
gagggaggcaggagagtcaggatcaggatgaagtggagatatgtgagaatatgaggaagat[gt]tcccctggctgtgctggctctgaagacacagaggaggccccacgaaccaa
41516 IS [gt] gttacgtgaat
41518 I S GCCAGTGTGGTAGATTCAGGATTGGACGGTAACTT
41518 P g S ATGACGTGGCAGACCAAGCAGTTCCTATGAGACY
41518 P t S CGCGCCGAGGAAAGCAGTTCCTATGAGACY
41518 T g S TAGGGTCTCATAGGAACTGCTTGAGTTACCGTCCAATCCTGAATCTACCACACTGGCCA
41518 T t S TAGGGTCTCATAGGAACTGCTTTAGTTACCGTCCAATCCTGAATCTACCACACTGGCCA
CTCAGTTCATTCTTACAGTTCACACAATTTCACCTGAGTAGGGTCTCATAGGAACTGCTT[gt]AGTTACCGTCCAATCCT
41518 IS [gt] GAATCTACCACACTGGCCAGGAGTAGAGGGTAAGAAGAAAAAA

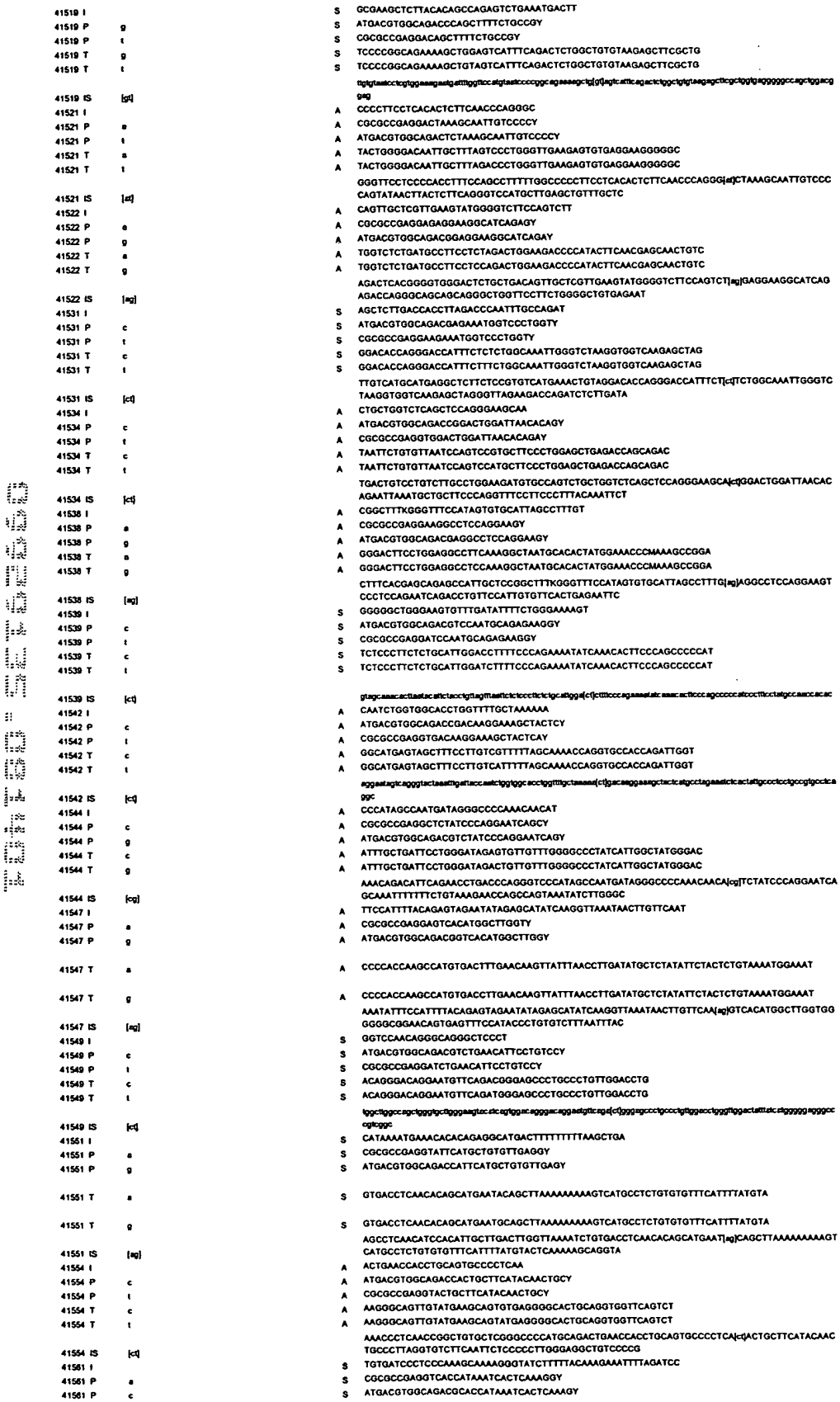
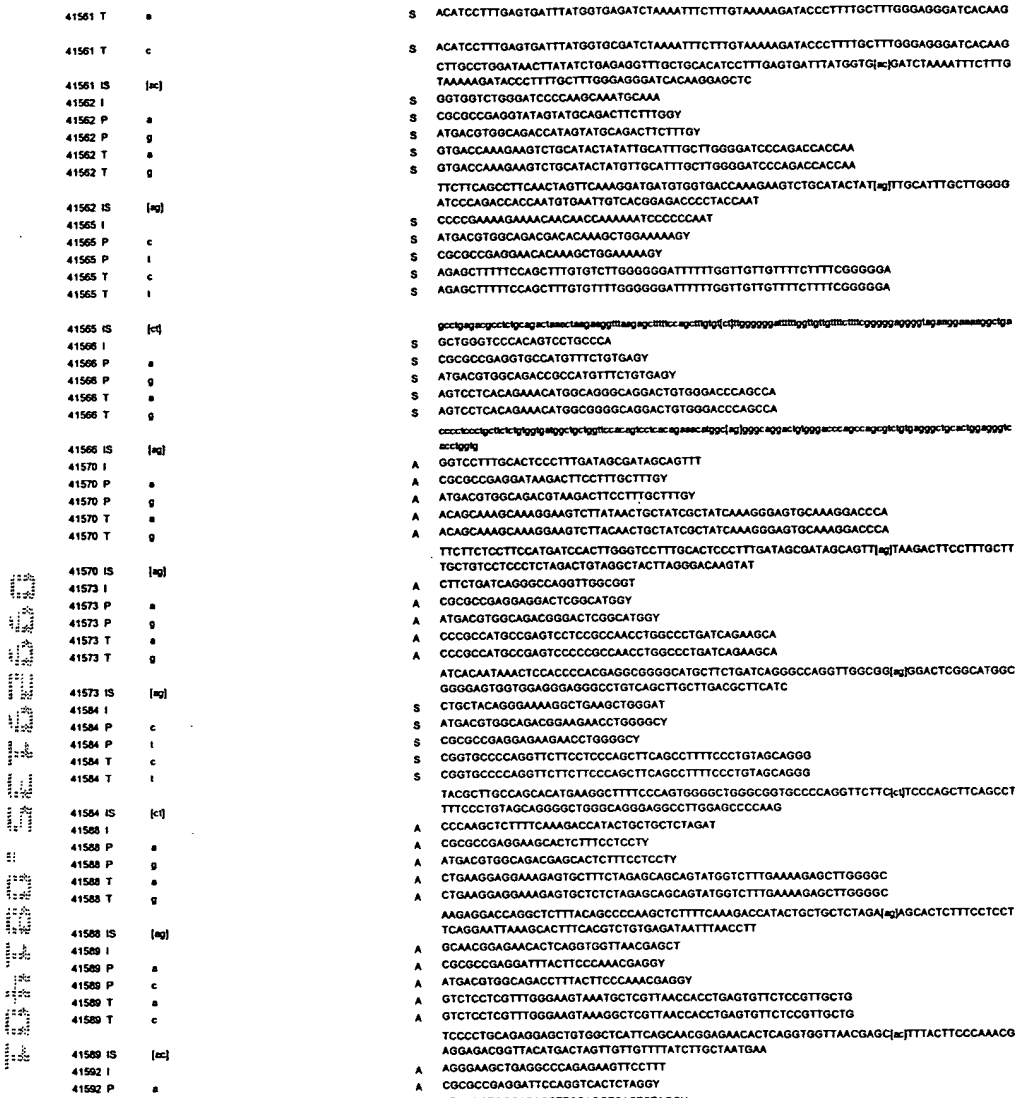
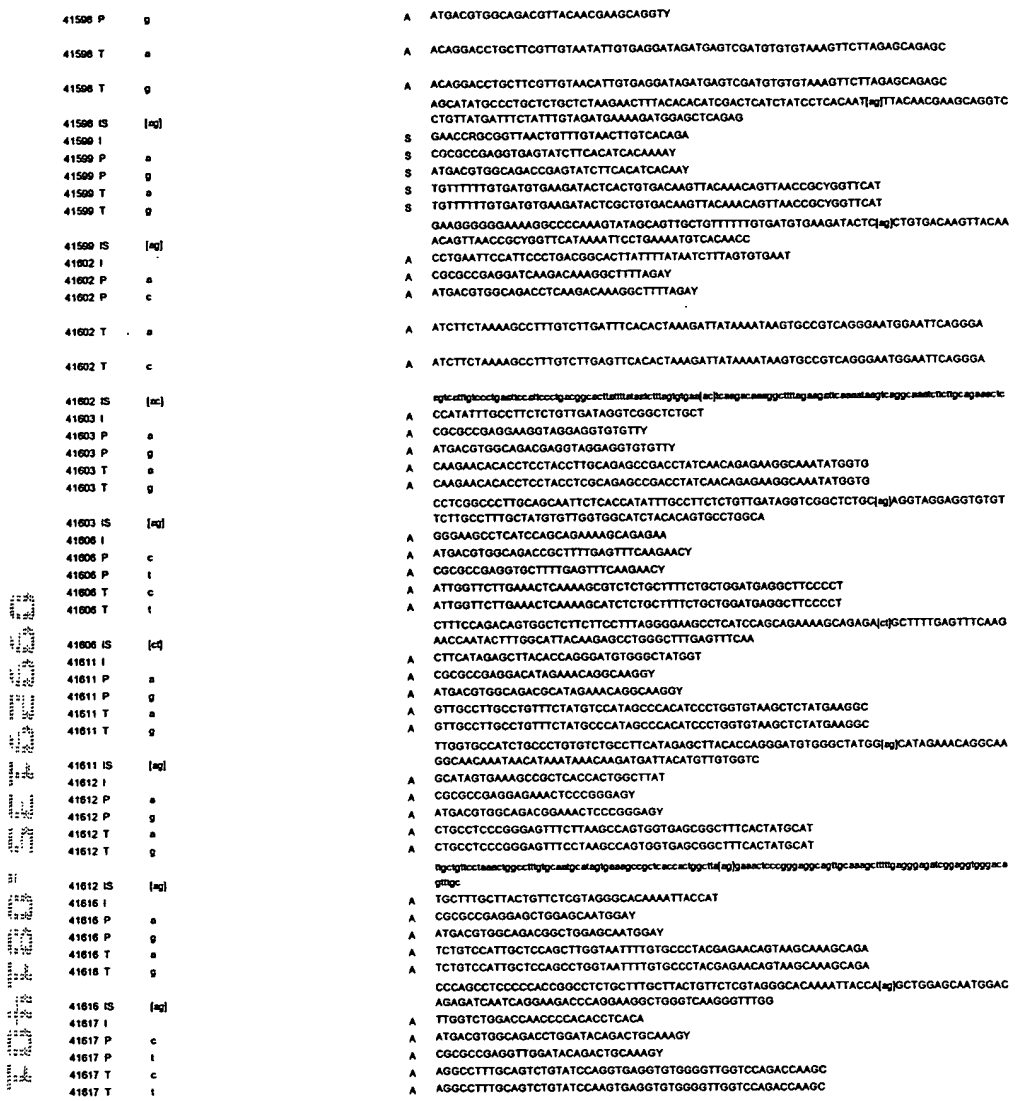
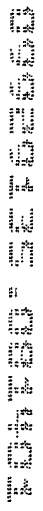
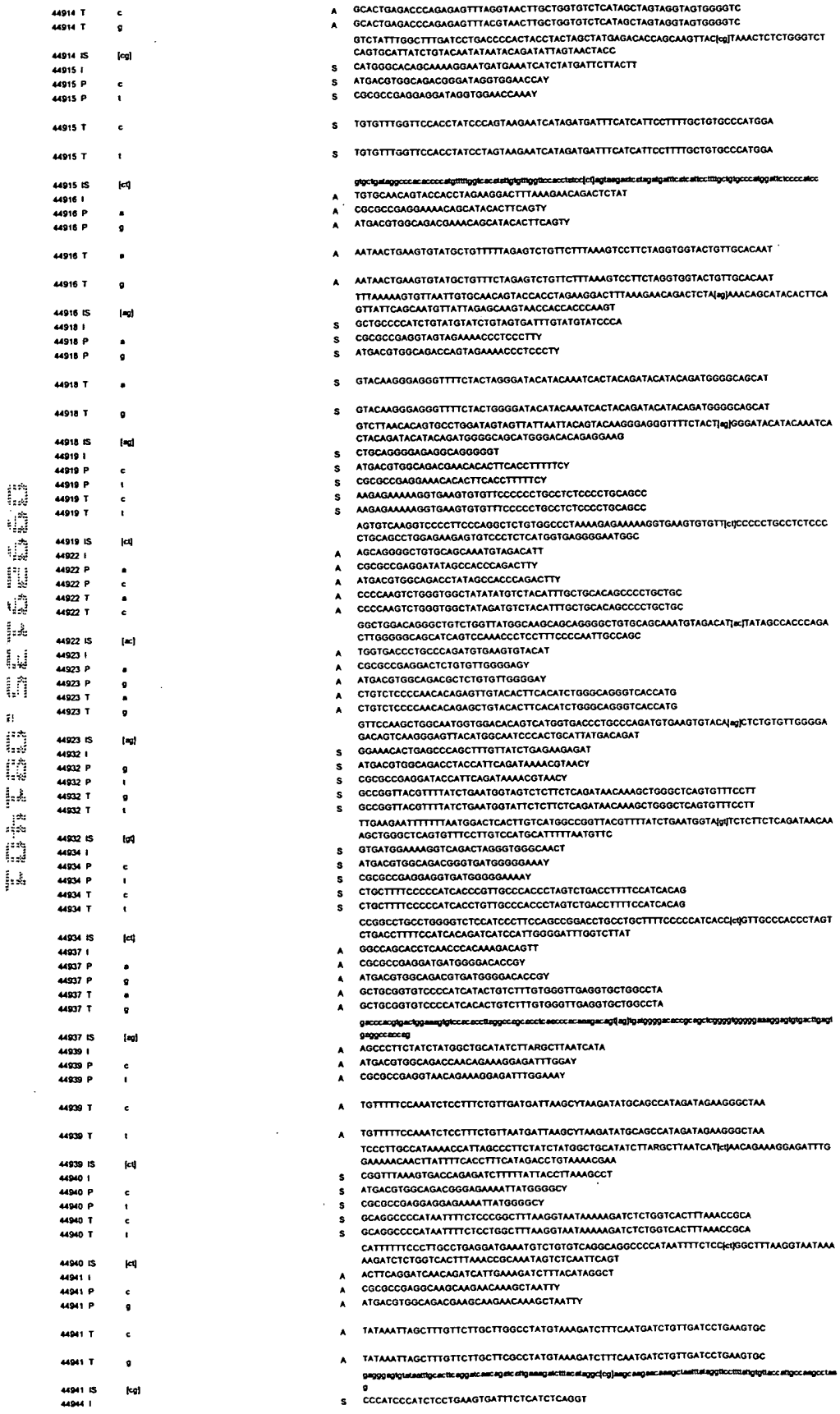


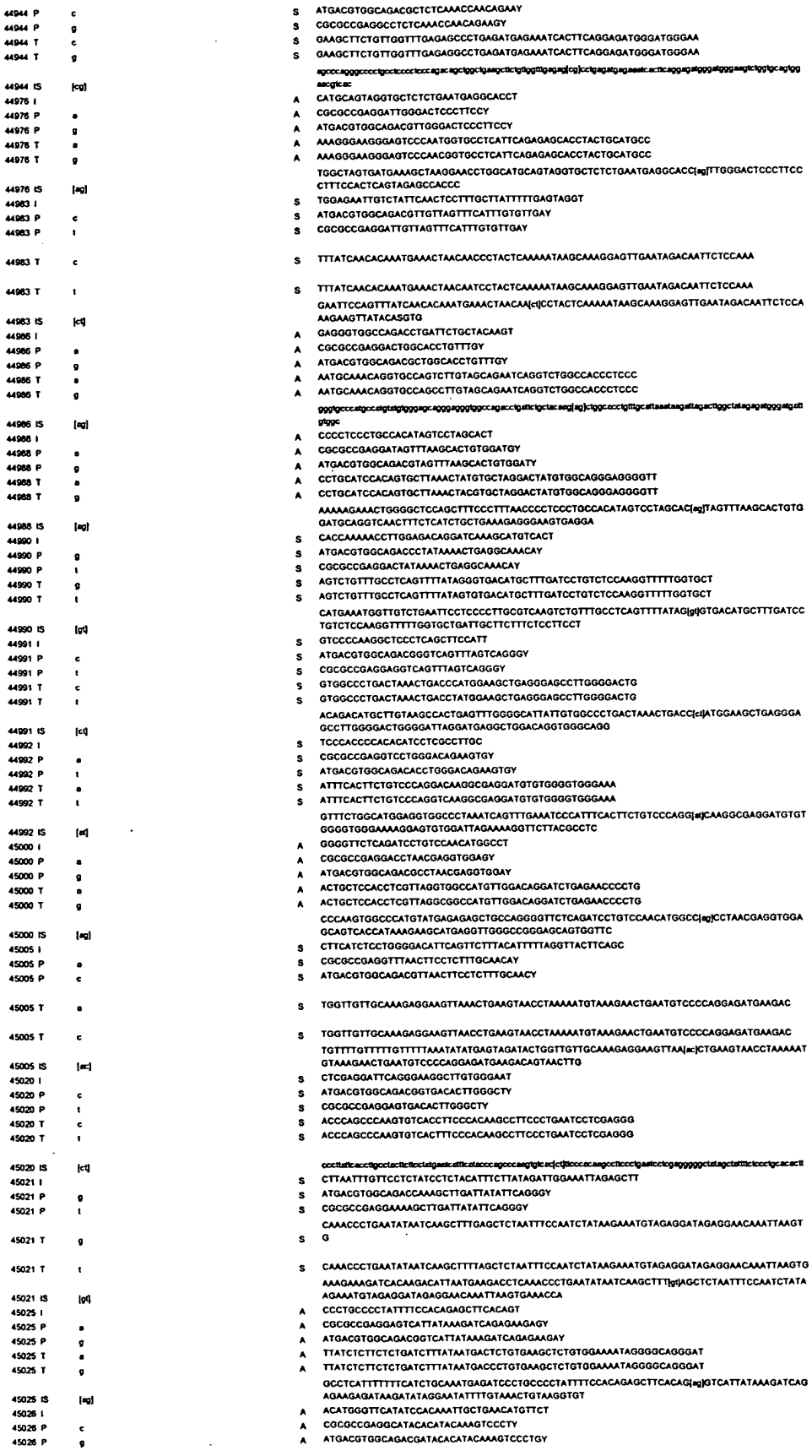
FIGURE 129D


41561 T a S ACATCCTTTGAGTGATTTATGGTGAGATCTAAAATTTCTTTGTAAAAAGATACCCTTTTGCTTTGGGAGGGATCACAAG
41561 T c S ACATCCTTTGAGTGATTTATGGTGCGATCTAAAATTTCTTTGTAAAAAGATACCCTTTTGCTTTGGGAGGGATCACAAG
CTTGCCTGGATAACTTATATCTGAGAGGTTTGCTGCACATCCTTTGAGTGATTTATGGTG[ac]GATCTAAAATTTCTTTG
41561 IS [ac] TAAAAAGATACCCTTTTGCTTTGGGAGGGATCACAAGGAGCTC
41562 I S GGTGGTCTGGGATCCCCAAGCAAATGCAAA
41562 P a S CGCGCCGAGGTATAGTATGCAGACTTCTTTGGY
41562 P g S ATGACGTGGCAGACCATAGTATGCAGACTTCTTTGY
41562 T a S GTGACCAAAGAAGTCTGCATACTATATTGCATTTGCTTGGGGATCCCAGACCACCAA
41562 T g S GTGACCAAAGAAGTCTGCATACTATGTTGCATTTGCTTGGGGATCCCAGACCACCAA
TTCTTCAGCCTTCAACTAGTTCAAAGGATGATGTGGTGACCAAAGAAGTCTGCATACTAT[ag]TTGCATTTGCTTGGGG
41562 IS [ag] ATCCCAGACCACCAATGTGAATTGTCACGGAGACCCCTACCAAT
41565 I S CCCCGAAAAGAAAACAACAACCAAAAAATCCCCCCAAT
41565 P c S ATGACGTGGCAGACGACACAAAGCTGGAAAAAGY
41565 P t S CGCGCCGAGGAACACAAAGCTGGAAAAAGY
41565 T c S AGAGCTTTTTCCAGCTTTGTGTCTTGGGGGGATTTTTTGGTTGTTGTTTTCTTTTCGGGGGA
41565 T t S AGAGCTTTTTCCAGCTTTGTGTTTTGGGGGGATTTTTTGGTTGTTGTTTTCTTTTCGGGGGA
41565 IS [ct] gcctgagcgcctctgcagactaaactaagaaggtttaagagctttttccagcttgtgt[ct]tgggggggatttttggttgttgtttttctttcgggggagggggtagaaggaaaaggctga
41566 I S GCTGGGTCCCACAGTCCTGCCCA
41566 P a S CGCGCCGAGGTGCCATGTTTCTGTGAGY
41566 P g S ATGACGTGGCAGACCGCCATGTTTCTGTGAGY
41566 T a S AGTCCTCACAGAAACATGGCAGGGCAGGACTGTGGGACCCAGCCA
41566 T g S AGTCCTCACAGAAACATGGCGGGGCAGGACTGTGGGACCCAGCCA
ccccteccigctictctgtggtgatggctgctggttccacagtcctcactgaaaccatggc[ag]gggcaggactgtgggacccagccagcgtctgtgagggctgcactggagggtc
41566 IS [ag] acctggtg
41570 I A GGTCCTTTGCACTCCCTTTGATAGCGATAGCAGTTT
41570 P a A CGCGCCGAGGATAAGACTTCCTTTGCTTTGY
41570 P g A ATGACGTGGCAGACGTAAGACTTCCTTTGCTTTGY
41570 T a A ACAGCAAAGCAAAGGAAGTCTTATAACTGCTATCGCTATCAAAGGGAGTGCAAAGGACCCA
41570 T g A ACAGCAAAGCAAAGGAAGTCTTACAACTGCTATCGCTATCAAAGGGAGTGCAAAGGACCCA
TTCTTCTCCTTCCATGATCCACTTGGGTCCTTTGCACTCCCTTTGATAGCGATAGCAGTT[ag]TAAGACTTCCTTTGCTT
41570 IS [ag] TGCTGTCCTCCCTCTAGACTGTAGGCTACTTAGGGACAAGTAT
41573 I A CTTCTGATCAGGGCCAGGTTGGCGGT
41573 P a A CGCGCCGAGGAGGACTCGGCATGGY
41573 P g A ATGACGTGGCAGACGGGACTCGGCATGGY
41573 T a A CCCGCCATGCCGAGTCCTCCGCCAACCTGGCCCTGATCAGAAGCA
41573 T g A CCCGCCATGCCGAGTCCCCCGCCAACCTGGCCCTGATCAGAAGCA
ATCACAATAAACTCCACCCCACGAGGCGGGGCATGCTTCTGATCAGGGCCAGGTTGGCGG[ag]GGACTCGGCATGGC
41573 IS [ag] GGGGAGTGGTGGAGGGAGGGCCTGTCAGCTTGCTTGACGCTTCATC
41584 I S CTGCTACAGGGAAAAGGCTGAAGCTGGGAT
41584 P c S ATGACGTGGCAGACGGAAGAACCTGGGGCY
41584 P t S CGCGCCGAGGAGAAGAACCTGGGGCY
41584 T c S CGGTGCCCCAGGTTCTTCCTCCCAGCTTCAGCCTTTTCCCTGTAGCAGGG
41584 T t S CGGTGCCCCAGGTTCTTCTTCCCAGCTTCAGCCTTTTCCCTGTAGCAGGG
TACGCTTGCCAGCACATGAAGGCTTTTCCCAGTGGGGCTGGGCGGTGCCCCAGGTTCTTC[ct]TCCCAGCTTCAGCCT
41584 IS [ct] TTTCCCTGTAGCAGGGGCTGGGCAGGGAGGCCTTGGAGCCCCAAG
41588 I A CCCAAGCTCTTTTCAAAGACCATACTGCTGCTCTAGAT
41588 P a A CGCGCCGAGGAAGCACTCTTTCCTCCTY
41588 P g A ATGACGTGGCAGACGAGCACTCTTTCCTCCTY
41588 T a A CTGAAGGAGGAAAGAGTGCTTTCTAGAGCAGCAGTATGGTCTTTGAAAAGAGCTTGGGGC
41588 T g A CTGAAGGAGGAAAGAGTGCTCTCTAGAGCAGCAGTATGGTCTTTGAAAAGAGCTTGGGGC
AAGAGGACCAGGCTCTTTACAGCCCCAAGCTCTTTTCAAAGACCATACTGCTGCTCTAGA[ag]AGCACTCTTTCCTCCT
41588 IS [ag] TCAGGAATTAAAGCACTTTCACGTCTGTGAGATAATTTAACCTT
41589 I A GCAACGGAGAACACTCAGGTGGTTAACGAGCT
41589 P a A CGCGCCGAGGATTTACTTCCCAAACGAGGY
41589 P c A ATGACGTGGCAGACCTTTACTTCCCAAACGAGGY
41589 T a A GTCTCCTCGTTTGGGAAGTAAATGCTCGTTAACCACCTGAGTGTTCTCCGTTGCTG
41589 T c A GTCTCCTCGTTTGGGAAGTAAAGGCTCGTTAACCACCTGAGTGTTCTCCGTTGCTG
TCCCCTGCAGAGGAGCTGTGGCTCATTCAGCAACGGAGAACACTCAGGTGGTTAACGAGC[ac]TTTACTTCCCAAACG
41589 IS [ac] AGGAGACGGTTACATGACTAGTTGTTGTTTTATCTTGCTAATGAA
41592 I A AGGGAAGCTGAGGCCCAGAGAAGTTCCTTT
41592 P a A CGCGCCGAGGATTCCAGGTCACTCTAGGY
41592 P g A ATGACGTGGCAGACGTTCCAGGTCACTCTAGGY
41592 T a A AAGTCCTAGAGTGACCTGGAATAAGGAACTTCTCTGGGCCTCAGCTTCCCTGT
41592 T g A AAGTCCTAGAGTGACCTGGAACAAGGAACTTCTCTGGGCCTCAGCTTCCCTGT
AAGAGTCCTTCGGGGGGCTGGAGAGCAGGACAGGGAAGCTGAGGCCCAGAGAAGTTCCTT[ag]TTCCAGGTCACTCT
41592 IS [ag] AGGACTTTGGGTGTATGAGCTTTTAAAGATCCTGCAAAAATATCTG
41593 I S GTGGTATTTGTAACGGCTTGCACCAGGAGCTACT
41593 P g S ATGACGTGGCAGACCTGCTCTTGTTTGCTGTY
41593 P t S CGCGCCGAGGATGCTCTTGTTTGCTGTTY
41593 T g S GAGAAACAGCAAACAAGAGCAGGTAGCTCCTGGTGCAAGCCGTTACAAATACCACCC
41593 T t S GAGAAACAGCAAACAAGAGCATGTAGCTCCTGGTGCAAGCCGTTACAAATACCACCC
TTACATCTGTGATTTGTCACACAGGAACCACTCCATCTGGAGAAACAGCAAACAAGAGCA[gt]GTAGCTCCTGGTGCAA
41593 IS [gt] GCCGTTACAAATACCACCCTCCAGGACCCCTCCCTCTCCCAGGG
41595 I A CTGCCAGGTCACAGCTTTGATTTTGACCAATCCAA
41595 P c A ATGACGTGGCAGACCCTCTTCTCAGCACCTY
41595 P t A CGCGCCGAGGTCTCTTCTCAGCACCTCY
41595 T c A AGATGAGGTGCTGAGAAGAGGTGGATTGGTCAAAATCAAAGCTGTGACCTGGCAGCT
41595 T t A AGATGAGGTGCTGAGAAGAGATGGATTGGTCAAAATCAAAGCTGTGACCTGGCAGCT
ctagtctcatggcagaccaaacagctgccagggtcacagcttgatttgaccaatccca[ct]ctcttctcagcacctcatctaaaaattggtcttttctgtttttcttctaaagtggattaa
41595 IS [ct]
41596 I S ACTGACTCTTCCCAGCATCTGACAGCCCTT
41596 P c S ATGACGTGGCAGACGTGAGCGTGTATCTTGTAATY
41596 P t S CGCGCCGAGGATGAGCGTGTATCTTGTAATCY
41596 T c S GGGAGATTACAAGATACACGCTCACAGGGCTGTCAGATGCTGGGAAGAGTCAGTGC
41596 T t S GGGAGATTACAAGATACACGCTCATAGGGCTGTCAGATGCTGGGAAGAGTCAGTGC
ccacatgcctaattaagctgactgtgtgtaggtgaggggagattacaagatacacgctca[ct]agggctgtcagatgctgggaagagtcagtgcagtgatgagacggagtaattagc
41596 IS [ct] tcaaaa
41597 I A GTTTGTTTATGCTAATGTGTGCTGGGTGGTGGGAGT
41597 P a A CGCGCCGAGGAGATGGGCTGGCTCY
41597 P g A ATGACGTGGCAGACGGATGGGCTGGCTY
41597 T a A AGCTGAGCCAGCCCATCTCTCCCACCACCCAGCACACATTAGCATAAACAAACAC
41597 T g A AGCTGAGCCAGCCCATCCCTCCCACCACCCAGCACACATTAGCATAAACAAACAC
ctgtgtgttctatgtaaatgaaggtgttgtttatgctaatgtgtgctgggtggtgggag[ag]gatgggctggctcagctcactaagacgcacagtgatggaaaaagaggctggcagccc
41597 IS [ag] aggt
41598 I A TCTGCTCTAAGAACTTTACACACATCGACTCATCTATCCTCACAATT
41598 P a A CGCGCCGAGGATTACAACGAAGCAGGTCY


41598 P g A ATGACGTGGCAGACGTTACAACGAAGCAGGTY
41598 T a A ACAGGACCTGCTTCGTTGTAATATTGTGAGGATAGATGAGTCGATGTGTGTAAAGTTCTTAGAGCAGAGC
41598 T g A ACAGGACCTGCTTCGTTGTAACATTGTGAGGATAGATGAGTCGATGTGTGTAAAGTTCTTAGAGCAGAGC
AGCATATGCCCTGCTCTGCTCTAAGAACTTTACACACATCGACTCATCTATCCTCACAAT[ag]TTACAACGAAGCAGGTC
41598 tS [ag] CTGTTATGATTTCTATTTGTAGATGAAAAGATGGAGCTCAGAG
41599 I S GAACCRGCGGTTAACTGTTTGTAACTTGTCACAGA
41599 P a S CGCGCCGAGGTGAGTATCTTCACATCACAAAAY
41599 P g S ATGACGTGGCAGACCGAGTATCTTCACATCACAAY
41599 T a S TGTTTTTTGTGATGTGAAGATACTCACTGTGACAAGTTACAAACAGTTAACCGCYGGTTCAT
41599 T g S TGTTTTTTGTGATGTGAAGATACTCGCTGTGACAAGTTACAAACAGTTAACCGCYGGTTCAT
GAAGGGGGGAAAAGGCCCCAAAGTATAGCAGTTGCTGTTTTTTGTGATGTGAAGATACTC[ag]CTGTGACAAGTTACAA
41599 tS [ag] ACAGTTAACCGCYGGTTCATAAAATTCCTGAAAATGTCACAACC
41602 I A CCTGAATTCCATTCCCTGACGGCACTTATTTTATAATCTTTAGTGTGAAT
41602 P a A CGCGCCGAGGATCAAGACAAAGGCTTTTAGAY
41602 P c A ATGACGTGGCAGACCTCAAGACAAAGGCTTTTAGAY
41602 T a A ATCTTCTAAAAGCCTTTGTCTTGATTTCACACTAAAGATTATAAAATAAGTGCCGTCAGGGAATGGAATTCAGGGA
41602 T c A ATCTTCTAAAAGCCTTTGTCTTGAGTTCACACTAAAGATTATAAAATAAGTGCCGTCAGGGAATGGAATTCAGGGA
[illegible] [ac] [illegible]
41603 I A CCATATTTGCCTTCTCTGTTGATAGGTCGGCTCTGCT
41603 P a A CGCGCCGAGGAAGGTAGGAGGTGTGTTY
41603 P g A ATGACGTGGCAGACGAGGTAGGAGGTGTGTTY
41603 T a A CAAGAACACACCTCCTACCTTGCAGAGCCGACCTATCAACAGAGAAGGCAAATATGGTG
41603 T g A CAAGAACACACCTCCTACCTCGCAGAGCCGACCTATCAACAGAGAAGGCAAATATGGTG
CCTCGGCCCTTGCAGCAATTCTCACCATATTTGCCTTCTCTGTTGATAGGTCGGCTCTGC[ag]AGGTAGGAGGTGTGT
41603 tS [ag] TCTTGCCTTTGCTATGTGTTGGTGGCATCTACACAGTGCCTGGCA
41606 I A GGGAAGCCTCATCCAGCAGAAAAGCAGAGAA
41606 P c A ATGACGTGGCAGACCGCTTTTGAGTTTCAAGAACY
41606 P t A CGCGCCGAGGTGCTTTTGAGTTTCAAGAACY
41606 T c A ATTGGTTCTTGAAACTCAAAAGCGTCTCTGCTTTTCTGCTGGATGAGGCTTCCCCT
41606 T t A ATTGGTTCTTGAAACTCAAAAGCATCTCTGCTTTTCTGCTGGATGAGGCTTCCCCT
CTTTCCAGACAGTGGCTCTTCTTCCTTTAGGGGAAGCCTCATCCAGCAGAAAAGCAGAGA[ct]GCTTTTGAGTTTCAAG
41606 tS [ct] AACCAATACTTTGGCATTACAAGAGCCTGGGCTTTGAGTTTCAA
41611 I A CTTCATAGAGCTTACACCAGGGATGTGGGCTATGGT
41611 P a A CGCGCCGAGGACATAGAAACAGGCAAGGY
41611 P g A ATGACGTGGCAGACGCATAGAAACAGGCAAGGY
41611 T a A GTTGCCTTGCCTGTTTCTATGTCCATAGCCCACATCCCTGGTGTAAGCTCTATGAAGGC
41611 T g A GTTGCCTTGCCTGTTTCTATGCCCATAGCCCACATCCCTGGTGTAAGCTCTATGAAGGC
TTGGTGCCATCTGCCCTGTGTCTGCCTTCATAGAGCTTACACCAGGGATGTGGGCTATGG[ag]CATAGAAACAGGCAA
41611 tS [ag] GGCAACAAATAACATAAATAAACAAGATGATTACATGTTGTGGTC
41612 I A GCATAGTGAAAGCCGCTCACCACTGGCTTAT
41612 P a A CGCGCCGAGGAGAAACTCCCGGGAGY
41612 P g A ATGACGTGGCAGACGGAAACTCCCGGGAGY
41612 T a A CTGCCTCCCGGGAGTTTCTTAAGCCAGTGGTGAGCGGCTTTCACTATGCAT
41612 T g A CTGCCTCCCGGGAGTTTCCTAAGCCAGTGGTGAGCGGCTTTCACTATGCAT
[illegible] [ag] gttgc
41616 I A TGCTTTGCTTACTGTTCTCGTAGGGCACAAAATTACCAT
41616 P a A CGCGCCGAGGAGCTGGAGCAATGGAY
41616 P g A ATGACGTGGCAGACGGCTGGAGCAATGGAY
41616 T a A TCTGTCCATTGCTCCAGCTTGGTAATTTTGTGCCCTACGAGAACAGTAAGCAAAGCAGA
41616 T g A TCTGTCCATTGCTCCAGCCTGGTAATTTTGTGCCCTACGAGAACAGTAAGCAAAGCAGA
CCCAGCCTCCCCCACCGGCCTCTGCTTTGCTTACTGTTCTCGTAGGGCACAAAATTACCA[ag]GCTGGAGCAATGGAC
41616 tS [ag] AGAGATCAATCAGGAAGACCCAGGAAGGCTGGGTCAAGGGTTTGG
41617 I A TTGGTCTGGACCAACCCCACACCTCACA
41617 P c A ATGACGTGGCAGACCTGGATACAGACTGCAAAGY
41617 P t A CGCGCCGAGGTTGGATACAGACTGCAAAGY
41617 T c A AGGCCTTTGCAGTCTGTATCCAGGTGAGGTGTGGGGTTGGTCCAGACCAAGC
41617 T t A AGGCCTTTGCAGTCTGTATCCAAGTGAGGTGTGGGGTTGGTCCAGACCAAGC
CGGCCTGCTTCAGGACTGCCCCCTACTTTCTGCTTGGTCTGGACCAACCCCACACCTCAC[ct]TGGATACAGACTGCA
41617 tS [ct] AAGGCCTCCCCTGTGGTCTCCCTGCCCCCTGGCCTGCCCTCTCTC
41619 I A GCACCTCTTCTTGGAGTAGCTCAAAGTCTCTTAAAATTTAGTAA
41619 P c A ATGACGTGGCAGACCCTGACCCTTCCCAGY
41619 P t A CGCGCCGAGGTCTGACCCTTCCCAGY
41619 T c A TCCACTGGGAAGGGTCAGGTACTAAATTTTAAGAGACTTTGAGCTACTCCAAGAAGAGGTGCTT
41619 T t A TCCACTGGGAAGGGTCAGATACTAAATTTTAAGAGACTTTGAGCTACTCCAAGAAGAGGTGCTT
TCCTCTAAAAGTTTTAAGCACCTCTTCTTGGAGTAGCTCAAAGTCTCTTAAAATTTAGTA[ct]CTGACCCTTCCCAGTGG
41619 tS [ct] AAGGTGGGCCATGCCATTTGTCCAAAACTATGAGCCCAGGCTA
41622 I A TCTGGGTAGCAGTTGTCTTTGTTGTGACTCTTTGAGATCTTTT
41622 P a A CGCGCCGAGGAGATTAGAGTGTTGCAGTTTTY
41622 P c A ATGACGTGGCAGACCGATTAGAGTGTTGCAGTTY
41622 T a A TGCCAAAACTGCAACACTCTAATCTAAAGATCTCAAAGAGTCACAACAAAGACAACTGCTACCCAGACA
41622 T c A TGCCAAAACTGCAACACTCTAATCGAAAGATCTCAAAGAGTCACAACAAAGACAACTGCTACCCAGACA
CAGTATTACACAATGTTGTCTGGGTAGCAGTTGTCTTTGTTGTGACTCTTTGAGATCTTT[ac]GATTAGAGTGTTGCAGT
41622 tS [ac] TTTGGCACTATTGACATTTGGGCTGGGAATTCTTTGTCGTGGG
41624 I A TGCCAACAAATGGGGACAATCTGTCTGAGAATTAACTGGTATAAAT
41624 P a A CGCGCCGAGGAGATAGCAAACCCAAGAGY
41624 P c A ATGACGTGGCAGACCGATAGCAAACCCAAGAGY
41624 T a A TCACCTCTTGGGTTTGCTATCTTTTATACCAGTTAATTCTCAGACAGATTGTCCCCATTTGTTGGCAAA
41624 T c A TCACCTCTTGGGTTTGCTATCGTTTATACCAGTTAATTCTCAGACAGATTGTCCCCATTTGTTGGCAAA
GTCTTGTGACCATTTTGCCAACAAATGGGGACAATCTGTCTGAGAATTAACTGGTATAAA[ac]GATAGCAAACCCAAGA
41624 tS [ac] GGTGAAGAAGGCTGAGTGTCTTGAAAGCAACATCGGACACCCTG
41625 I A ACCTGCCTTTTGGCTGGGGCCAT
41625 P a A CGCGCCGAGGATGGCAGTTCCTGTTAACY
41625 P g A ATGACGTGGCAGACGTGGCAGTTCCTGTTAACY
41625 T a A CCTGGTTAACAGGAACTGCCATTGGCCCCAGCCAAAAGGCAGGTGA
41625 T g A CCTGGTTAACAGGAACTGCCACTGGCCCCAGCCAAAAGGCAGGTGA
GGCAGGAAGGGGAGATGGCAGCACAGGGCCCTGCCCTCACCTGCCTTTTGGCTGGGGCCA[ag]TGGCAGTTCCTGTT
41625 tS [ag] AACCAGGAGGGCCTGAGGTTCCGCTGATCCGGAGGCCACAGTGCAC
41629 I S GCCAGGGTATTCATGTTCTGGGTAGCATAACCCCA
41629 P a S CGCGCCGAGGTGACCGCCAAACAACY






44944 P c S ATGACGTGGCAGACGCTCTCAAACCAACAGAAY
44944 P g S CGCGCCGAGGCCTCTCAAACCAACAGAAGY
44944 T c S GAAGCTTCTGTTGGTTTGAGAGCCCTGAGATGAGAAATCACTTCAGGAGATGGGATGGGAA
44944 T g S GAAGCTTCTGTTGGTTTGAGAGGCCTGAGATGAGAAATCACTTCAGGAGATGGGATGGGAA
44944 tS [cg]
44976 I A CATGCAGTAGGTGCTCTCTGAATGAGGCACCT
44976 P a A CGCGCCGAGGATTGGGACTCCCTTCCY
44976 P g A ATGACGTGGCAGACGTTGGGACTCCCTTCCY
44976 T a A AAAGGGAAGGGAGTCCCAATGGTGCCTCATTCAGAGAGCACCTACTGCATGCC
44976 T g A AAAGGGAAGGGAGTCCCAACGGTGCCTCATTCAGAGAGCACCTACTGCATGCC
44976 tS [ag] TGGCTAGTGATGAAAGCTAAGGAACCTGGCATGCAGTAGGTGCTCTCTGAATGAGGCACC[ag]TTGGGACTCCCTTCC CTTTCCACTCAGTAGAGCCACCC
44983 I S TGGAGAATTGTCTATTCAACTCCTTTGCTTATTTTTGAGTAGGT
44983 P c S ATGACGTGGCAGACGTTGTTAGTTTCATTTGTGTTGAY
44983 P t S CGCGCCGAGGATTGTTAGTTTCATTTGTGTTGAY
44983 T c S TTTATCAACACAAATGAAACTAACAACCCTACTCAAAAATAAGCAAAGGAGTTGAATAGACAATTCTCCAAA
44983 T t S TTTATCAACACAAATGAAACTAACAATCCTACTCAAAAATAAGCAAAGGAGTTGAATAGACAATTCTCCAAA
44983 tS [ct] GAATTCCAGTTTATCAACACAAATGAAACTAACAA[ct]CCTACTCAAAAATAAGCAAAGGAGTTGAATAGACAATTCTCCA AAGAAGTTATACASGTG
44986 I A GAGGGTGGCCAGACCTGATTCTGCTACAAGT
44986 P a A CGCGCCGAGGACTGGCACCTGTTTGY
44986 P g A ATGACGTGGCAGACGCTGGCACCTGTTTGY
44986 T a A AATGCAAACAGGTGCCAGTCTTGTAGCAGAATCAGGTCTGGCCACCCTCCC
44986 T g A AATGCAAACAGGTGCCAGCCTTGTAGCAGAATCAGGTCTGGCCACCCTCCC
44986 tS [ag] gggtgcccatgccatgtatgtgggagcagggagggtggccagacctgattctgctacaag[ag]ctggcccctgtttgcattaaataagattagacttggctatagagatgggatgatt gtggc
44988 I A CCCCTCCCTGCCACATAGTCCTAGCACT
44988 P a A CGCGCCGAGGATAGTTTAAGCACTGTGGATGY
44988 P g A ATGACGTGGCAGACGTAGTTTAAGCACTGTGGATY
44988 T a A CCTGCATCCACAGTGCTTAAACTATGTGCTAGGACTATGTGGCAGGGAGGGGTT
44988 T g A CCTGCATCCACAGTGCTTAAACTACGTGCTAGGACTATGTGGCAGGGAGGGGTT
44988 tS [ag] AAAAAGAAACTGGGGCTCCAGCTTTCCCTTTAACCCCTCCCTGCCACATAGTCCTAGCAC[ag]TAGTTTAAGCACTGTG GATGCAGGTCAACTTTCTCATCTGCTGAAAGAGGGAAGTGAGGA
44990 I S CACCAAAAACCTTGGAGACAGGATCAAAGCATGTCACT
44990 P g S ATGACGTGGCAGACCCTATAAAACTGAGGCAAACAY
44990 P t S CGCGCCGAGGACTATAAAACTGAGGCAAACAY
44990 T g S AGTCTGTTTGCCTCAGTTTTATAGGGTGACATGCTTTGATCCTGTCTCCAAGGTTTTTGGTGCT
44990 T t S AGTCTGTTTGCCTCAGTTTTATAGTGTGACATGCTTTGATCCTGTCTCCAAGGTTTTTGGTGCT
44990 tS [gt] CATGAAATGGTTGTCTGAATTCCTCCCCTTGCGTCAAGTCTGTTTGCCTCAGTTTTATAG[gt]GTGACATGCTTTGATCC TGTCTCCAAGGTTTTTGGTGCTGATTGCTTCTTTCTCCTTCCT
44991 I S GTCCCCAAGGCTCCCTCAGCTTCCATT
44991 P c S ATGACGTGGCAGACGGGTCAGTTTAGTCAGGGY
44991 P t S CGCGCCGAGGAGGTCAGTTTAGTCAGGGY
44991 T c S GTGGCCCTGACTAAACTGACCCATGGAAGCTGAGGGAGCCTTGGGGACTG
44991 T t S GTGGCCCTGACTAAACTGACCTATGGAAGCTGAGGGAGCCTTGGGGACTG
44991 tS [ct] ACAGACATGCTTGTAAGCCACTGAGTTTGGGGCATTATTGTGGCCCTGACTAAACTGACC[ct]ATGGAAGCTGAGGGA GCCTTGGGGACTGGGGATTAGGATGAGGCTGGACAGGTGGGCAGG
44992 I S TCCCACCCCACACATCCTCGCCTTGC
44992 P a S CGCGCCGAGGTCCTGGGACAGAAGTGY
44992 P t S ATGACGTGGCAGACACCTGGGACAGAAGTGY
44992 T a S ATTTCACTTCTGTCCCAGGACAAGGCGAGGATGTGTGGGGTGGGAAA
44992 T t S ATTTCACTTCTGTCCCAGGTCAAGGCGAGGATGTGTGGGGTGGGAAA
44992 tS [at] GTTTCTGGCATGGAGGTGGCCCTAAATCAGTTTGAAATCCCATTTCACTTCTGTCCCAGG[at]CAAGGCGAGGATGTGT GGGGTGGGAAAAGGAGTGTGGATTAGAAAAGGTTCTTACGCCTC
45000 I A GGGGTTCTCAGATCCTGTCCAACATGGCCT
45000 P a A CGCGCCGAGGACCTAACGAGGTGGAGY
45000 P g A ATGACGTGGCAGACGCCTAACGAGGTGGAY
45000 T a A ACTGCTCCACCTCGTTAGGTGGCCATGTTGGACAGGATCTGAGAACCCCTG
45000 T g A ACTGCTCCACCTCGTTAGGCGGCCATGTTGGACAGGATCTGAGAACCCCTG
45000 tS [ag] CCCAAGTGGCCCATGTATGAGAGAGCTGCCAGGGGTTCTCAGATCCTGTCCAACATGGCC[ag]CCTAACGAGGTGGA GCAGTCACCATAAAGAAGCATGAGGTTGGGCCGGGAGCAGTGGTTC
45005 I S CTTCATCTCCTGGGGACATTCAGTTCTTTACATTTTTAGGTTACTTCAGC
45005 P a S CGCGCCGAGGTTTAACTTCCTCTTTGCAACAY
45005 P c S ATGACGTGGCAGACGTTAACTTCCTCTTTGCAACY
45005 T a S TGGTTGTTGCAAAGAGGAAGTTAAACTGAAGTAACCTAAAAATGTAAAGAACTGAATGTCCCCAGGAGATGAAGAC
45005 T c S TGGTTGTTGCAAAGAGGAAGTTAACCTGAAGTAACCTAAAAATGTAAAGAACTGAATGTCCCCAGGAGATGAAGAC
45005 tS [ac] TGTTTTGTTTTTGTTTTTAAATATATGAGTAGATACTGGTTGTTGCAAAGAGGAAGTTAA[ac]CTGAAGTAACCTAAAAAT GTAAAGAACTGAATGTCCCCAGGAGATGAAGACAGTAACTTG
45020 I S CTCGAGGATTCAGGGAAGGCTTGTGGGAAT
45020 P c S ATGACGTGGCAGACGGTGACACTTGGGCTY
45020 P t S CGCGCCGAGGAGTGACACTTGGGCTY
45020 T c S ACCCAGCCCAAGTGTCACCTTCCCACAAGCCTTCCCTGAATCCTCGAGGG
45020 T t S ACCCAGCCCAAGTGTCACTTTCCCACAAGCCTTCCCTGAATCCTCGAGGG
45020 tS [ct] ccctattcacctgcctactctcctatgaatcattctatcccagcccaagtgtcac[ct]tcccacaagcctcccctgaatcctcgaggggctatagctatttctcccctgcacact
45021 I S CTTAATTTGTTCCTCTATCCTCTACATTTCTTATAGATTGGAAATTAGAGCTT
45021 P g S ATGACGTGGCAGACCAAAGCTTGATTATATTCAGGGY
45021 P t S CGCGCCGAGGAAAAGCTTGATTATATTCAGGGY
45021 T g S CAAACCCTGAATATAATCAAGCTTTGAGCTCTAATTTCCAATCTATAAGAAATGTAGAGGATAGAGGAACAAATTAAGT G
45021 T t S CAAACCCTGAATATAATCAAGCTTTTAGCTCTAATTTCCAATCTATAAGAAATGTAGAGGATAGAGGAACAAATTAAGTG
45021 tS [gt] AAAGAAAGATCACAAGACATTAATGAAGACCTCAAACCCTGAATATAATCAAGCTTT[gt]AGCTCTAATTTCCAATCTATA AGAAATGTAGAGGATAGAGGAACAAATTAAGTGAAACCA
45025 I A CCCTGCCCCTATTTTCCACAGAGCTTCACAGT
45025 P a A CGCGCCGAGGAGTCATTATAAAGATCAGAGAAGAGY
45025 P g A ATGACGTGGCAGACGGTCATTATAAAGATCAGAGAAGAY
45025 T a A TTATCTCTTCTCTGATCTTTATAATGACTCTGTGAAGCTCTGTGGAAAATAGGGGCAGGGAT
45025 T g A TTATCTCTTCTCTGATCTTTATAATGACCCTGTGAAGCTCTGTGGAAAATAGGGGCAGGGAT
45025 tS [ag] GCCTCATTTTTTTCATCTGCAAATGAGATCCCTGCCCCTATTTTCCACAGAGCTTCACAG[ag]GTCATTATAAAGATCAG AGAAGAGATAAGATATAGGAATATTTTGTAAACTGTAAGGTGT
45026 I A ACATGGGTTCATATCCACAAATTGCTGAACATGTTCT
45026 P c A CGCGCCGAGGCATACACATACAAAGTCCCTY
45026 P g A ATGACGTGGCAGACGATACACATACAAAGTCCCTGY

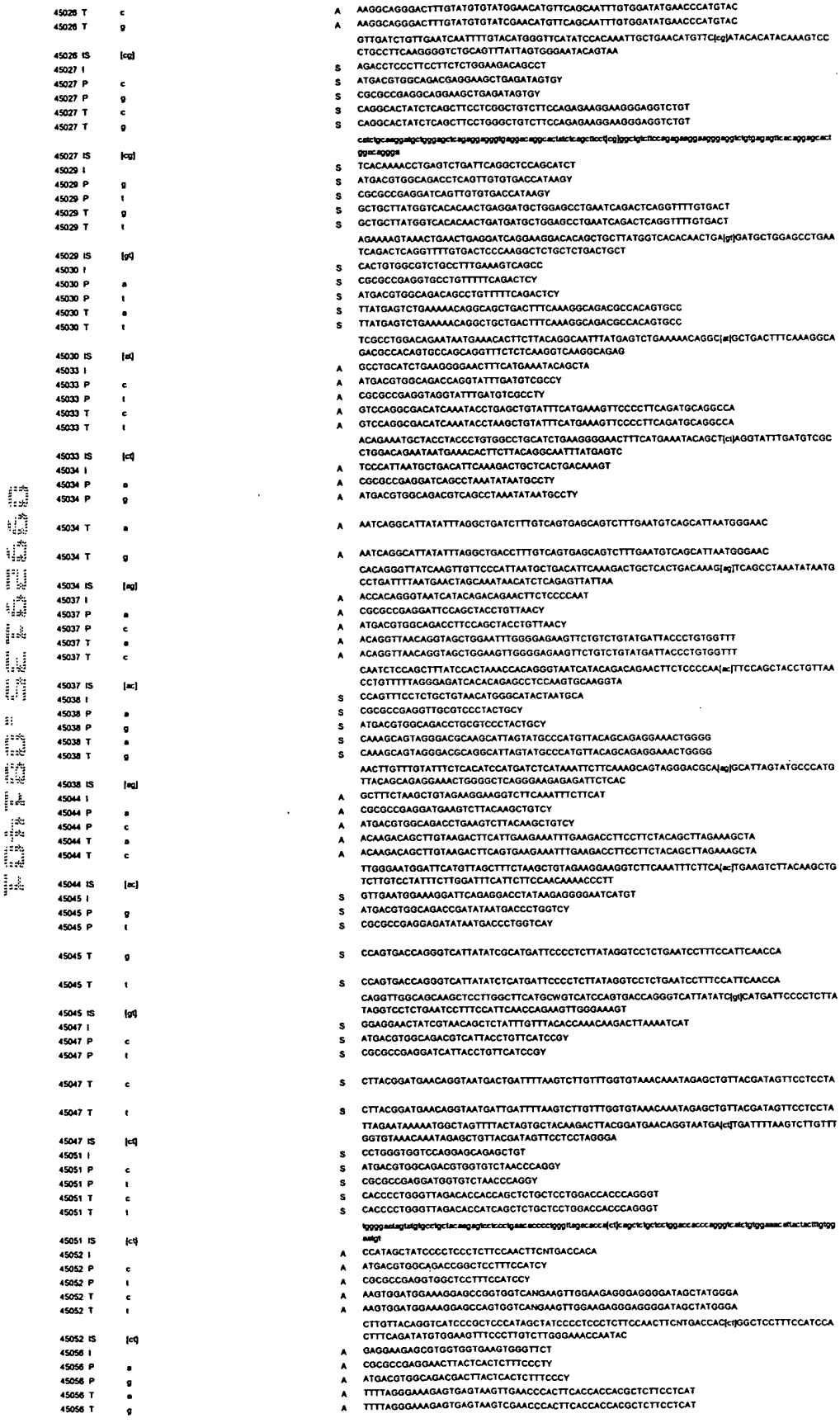


FIGURE 129D

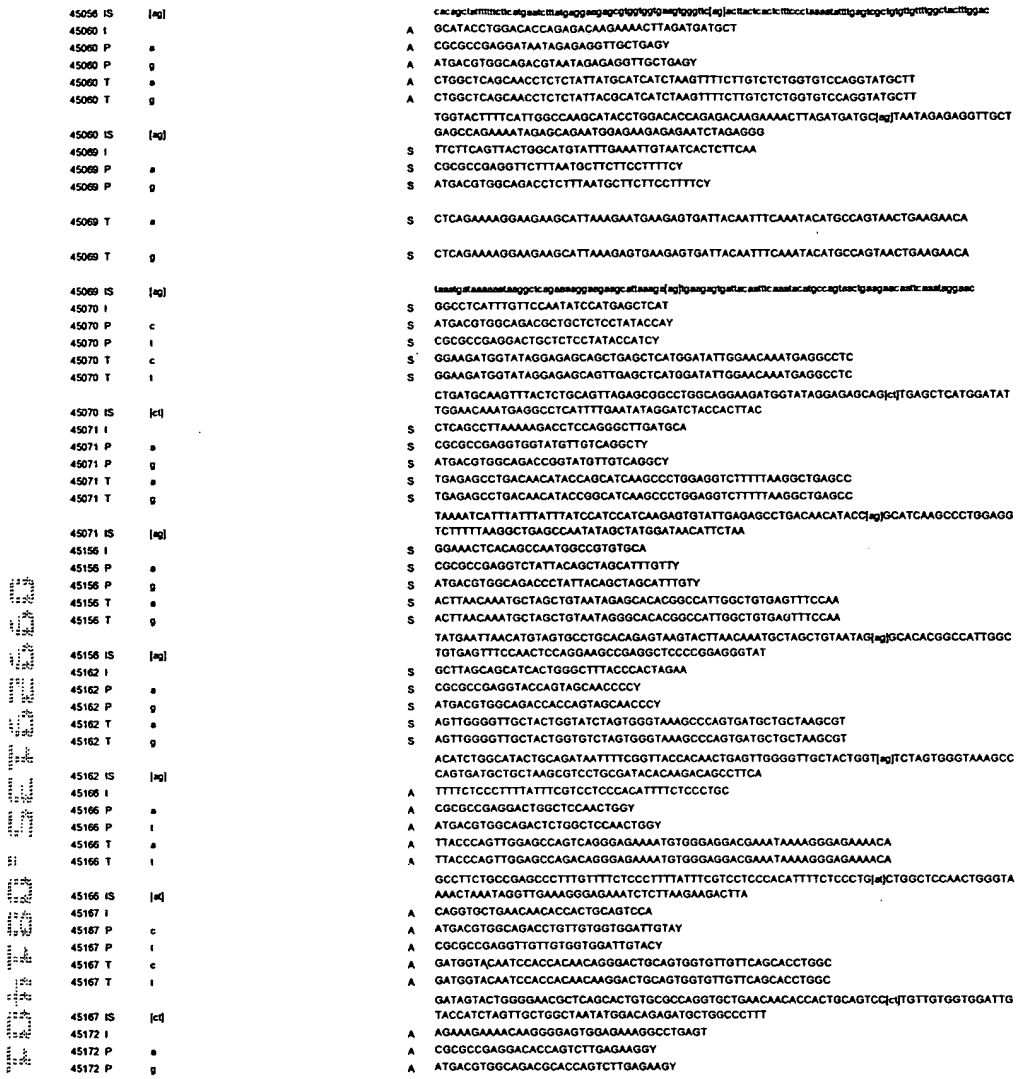
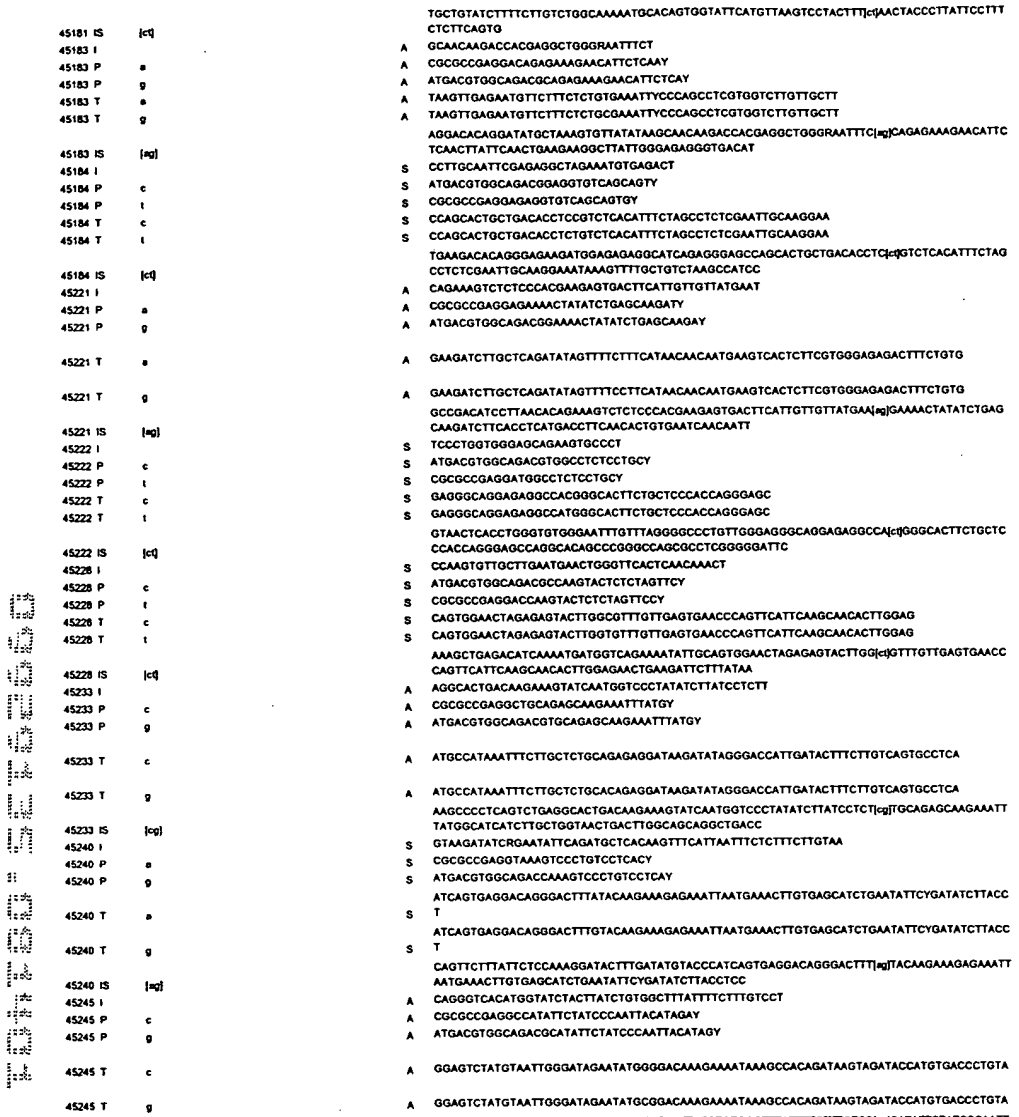
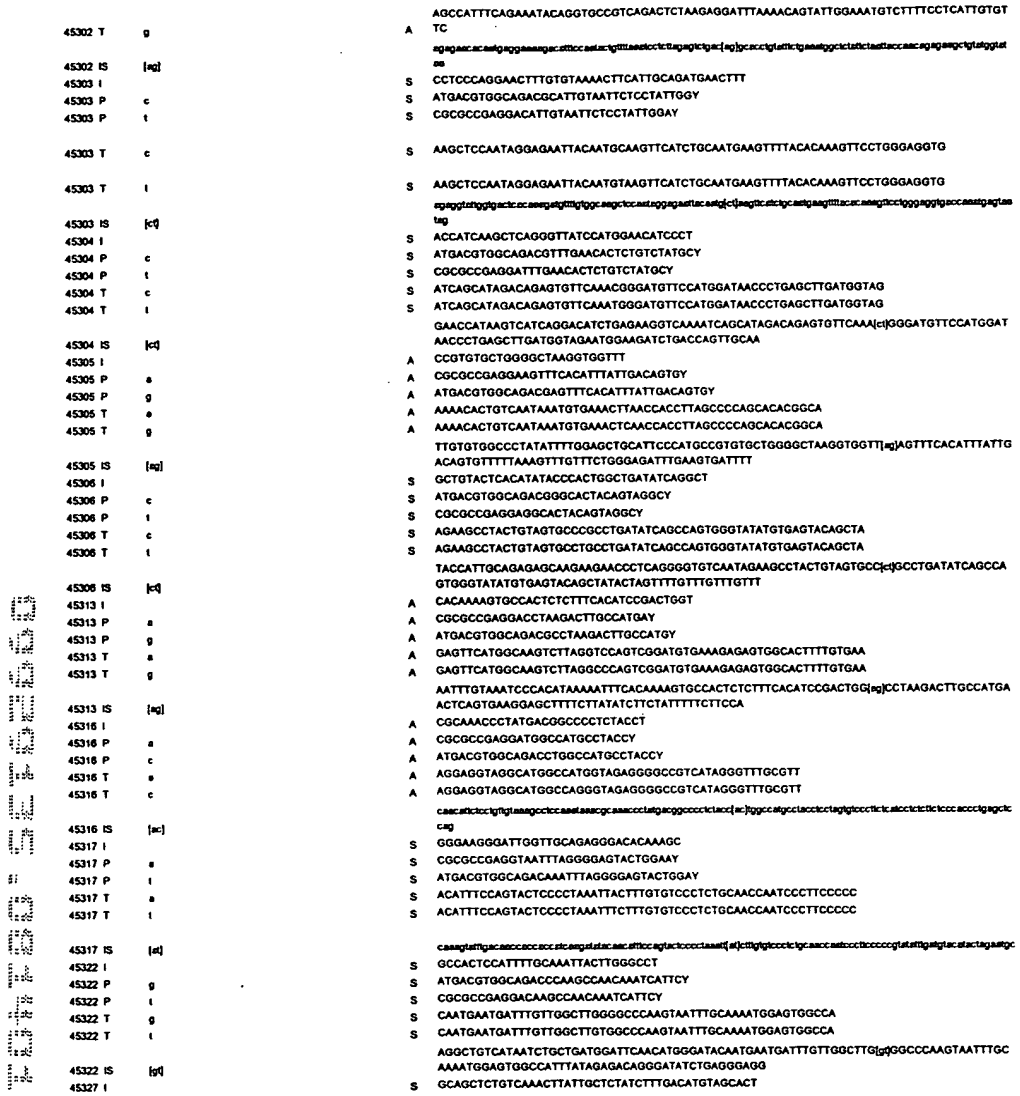
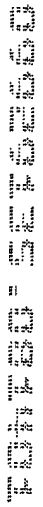


FIGURE 129D


TGCTGTATCTTTTCTTGTCTGGCAAAAATGCACAGTGGTATTCATGTTAAGTCCTACTTT[ct]AACTACCCTTATTCCTTT
45181 IS [ct] CTCTTCAGTG
45183 I A GCAACAAGACCACGAGGCTGGGRAATTTCT
45183 P a A CGCGCCGAGGACAGAGAAAGAACATTCTCAAY
45183 P g A ATGACGTGGCAGACGCAGAGAAAGAACATTCTCAY
45183 T a A TAAGTTGAGAATGTTCTTTCTCTGTGAAATTYCCCAGCCTCGTGGTCTTGTTGCTT
45183 T g A TAAGTTGAGAATGTTCTTTCTCTGCGAAATTYCCCAGCCTCGTGGTCTTGTTGCTT
AGGACACAGGATATGCTAAAGTGTTATATAAGCAACAAGACCACGAGGCTGGGRAATTTC[ag]CAGAGAAAGAACATTC
45183 IS [ag] TCAACTTATTCAACTGAAGAAGGCTTATTGGGAGAGGGTGACAT
45184 I S CCTTGCAATTCGAGAGGCTAGAAATGTGAGACT
45184 P c S ATGACGTGGCAGACGGAGGTGTCAGCAGTY
45184 P t S CGCGCCGAGGAGAGGTGTCAGCAGTGY
45184 T c S CCAGCACTGCTGACACCTCCGTCTCACATTTCTAGCCTCTCGAATTGCAAGGAA
45184 T t S CCAGCACTGCTGACACCTCTGTCTCACATTTCTAGCCTCTCGAATTGCAAGGAA
TGAAGACACAGGGAGAAGATGGAGAGAGGCATCAGAGGGAGCCAGCACTGCTGACACCTC[ct]GTCTCACATTTCTAG
45184 IS [ct] CCTCTCGAATTGCAAGGAAATAAAGTTTTGCTGTCTAAGCCATCC
45221 I A CAGAAAGTCTCTCCCACGAAGAGTGACTTCATTGTTGTTATGAAT
45221 P a A CGCGCCGAGGAGAAAACTATATCTGAGCAAGATY
45221 P g A ATGACGTGGCAGACGGAAAACTATATCTGAGCAAGAY
45221 T a A GAAGATCTTGCTCAGATATAGTTTTCTTTCATAACAACAATGAAGTCACTCTTCGTGGGAGAGACTTTCTGTG
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45221 IS [ag] CAAGATCTTCACCTCATGACCTTCAACACTGTGAATCAACAATT
45222 I S TCCCTGGTGGGAGCAGAAGTGCCCT
45222 P c S ATGACGTGGCAGACGTGGCCTCTCCTGCY
45222 P t S CGCGCCGAGGATGGCCTCTCCTGCY
45222 T c S GAGGGCAGGAGAGGCCACGGGCACTTCTGCTCCCACCAGGGAGC
45222 T t S GAGGGCAGGAGAGGCCATGGGCACTTCTGCTCCCACCAGGGAGC
GTAACTCACCTGGGTGTGGGAATTTGTTTAGGGGCCCTGTTGGGAGGGCAGGAGAGGCCA[ct]GGGCACTTCTGCTC
45222 IS [ct] CCACCAGGGAGCCAGGCACAGCCCGGGCCAGCGCCTCGGGGGATTC
45228 I S CCAAGTGTTGCTTGAATGAACTGGGTTCACTCAACAAACT
45228 P c S ATGACGTGGCAGACGCCAAGTACTCTCTAGTTCY
45228 P t S CGCGCCGAGGACCAAGTACTCTCTAGTTCCY
45228 T c S CAGTGGAACTAGAGAGTACTTGGCGTTTGTTGAGTGAACCCAGTTCATTCAAGCAACACTTGGAG
45228 T t S CAGTGGAACTAGAGAGTACTTGGTGTTTGTTGAGTGAACCCAGTTCATTCAAGCAACACTTGGAG
AAAGCTGAGACATCAAAATGATGGTCAGAAAATATTGCAGTGGAACTAGAGAGTACTTGG[ct]GTTTGTTGAGTGAACC
45228 IS [ct] CAGTTCATTCAAGCAACACTTGGAGAACTGAAGATTCTTTATAA
45233 I A AGGCACTGACAAGAAAGTATCAATGGTCCCTATATCTTATCCTCTT
45233 P c A CGCGCCGAGGCTGCAGAGCAAGAAATTTATGY
45233 P g A ATGACGTGGCAGACGTGCAGAGCAAGAAATTTATGY
45233 T c A ATGCCATAAATTTCTTGCTCTGCAGAGAGGATAAGATATAGGGACCATTGATACTTTCTTGTCAGTGCCTCA
45233 T g A ATGCCATAAATTTCTTGCTCTGCACAGAGGATAAGATATAGGGACCATTGATACTTTCTTGTCAGTGCCTCA
AAGCCCCTCAGTCTGAGGCACTGACAAGAAAGTATCAATGGTCCCTATATCTTATCCTCT[cg]TGCAGAGCAAGAAATT
45233 IS [cg] TATGGCATCATCTTGCTGGTAACTGACTTGGCAGCAGGCTGACC
45240 I S GTAAGATATCRGAATATTCAGATGCTCACAAGTTTCATTAATTTCTCTTTCTTGTAA
45240 P a S CGCGCCGAGGTAAAGTCCCTGTCCTCACY
45240 P g S ATGACGTGGCAGACCAAAGTCCCTGTCCTCAY
ATCAGTGAGGACAGGGACTTTATACAAGAAAGAGAAATTAATGAAACTTGTGAGCATCTGAATATTCYGATATCTTACC
45240 T a S T
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45240 T g S T
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45240 IS [ag] AATGAAACTTGTGAGCATCTGAATATTCYGATATCTTACCTCC
45245 I A CAGGGTCACATGGTATCTACTTATCTGTGGCTTTATTTTCTTTGTCCT
45245 P c A CGCGCCGAGGCCATATTCTATCCCAATTACATAGAY
45245 P g A ATGACGTGGCAGACGCATATTCTATCCCAATTACATAGY
45245 T c A GGAGTCTATGTAATTGGGATAGAATATGGGGACAAAGAAAATAAAGCCACAGATAAGTAGATACCATGTGACCCTGTA
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45247 I S GGTGCTCATAGGGCACATCTGGTTTGTTACC
45247 P a S CGCGCCGAGGTCTTCTTTTACTGTCTTGAGTTY
45247 P t S ATGACGTGGCAGACACTTCTTTTACTGTCTTGAGTTY
45247 T a S AGACAACTCAAGACAGTAAAAGAAGAGTAACAAACCAGATGTGCCCTATGAGCACCTA
45247 T t S AGACAACTCAAGACAGTAAAAGAAGTGTAACAAACCAGATGTGCCCTATGAGCACCTA
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45250 I S TGAAGCTCCTAGTGGTTTCCTTCTGTTCTGTTTT
45250 P c S ATGACGTGGCAGACGCCAGTTAGGATCTATCTAGGY
45250 P t S CGCGCCGAGGACCAGTTAGGATCTATCTAGGY
45250 T c S TACACCTAGATAGATCCTAACTGGCAAACAGAACAGAAGGAAACCACTAGGAGCTTCATT
45250 T t S TACACCTAGATAGATCCTAACTGGTAAACAGAACAGAAGGAAACCACTAGGAGCTTCATT
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45253 P t S CGCGCCGAGGACCATGAAGGAAACTCTACAY
45253 T g S ATGCTGTAGAGTTTCCTTCATGGGCTGCCATCTGTCTTTATGTCCGTTCTCTCCTTCTCCTT
45253 T t S ATGCTGTAGAGTTTCCTTCATGGTCTGCCATCTGTCTTTATGTCCGTTCTCTCCTTCTCCTT
CTCTACTGCTAAAATCCCTGTTACCCAGCTTCTAAGCATGCTGTAGAGTTTCCTTCATGG[gt]CTGCCATCTGTCTTTAT
45253 IS [gt] GTCCGTTCTCTCCTTCTCCTTCTATGCACTGGGGTGTGCAGTC
45254 I A GCCTTATGTCTGATGGGCTGCTTTGCCCTAGT
45254 P a A CGCGCCGAGGATGTTGTGAACTAGAGAATTGTY
45254 P g A ATGACGTGGCAGACGTGTTGTGAACTAGAGAATTGY
45254 T a A GCTAACAATTCTCTAGTTCACAACATCTAGGGCAAAGCAGCCCATCAGACATAAGGCAG
45254 T g A GCTAACAATTCTCTAGTTCACAACACCTAGGGCAAAGCAGCCCATCAGACATAAGGCAG
GCCCACACTTCTTCTCCACCCTTGGTCCTGCCTTATGTCTGATGGGCTGCTTTGCCCTAG[ag]TGTTGTGAACTAGAGA
45254 IS [ag] ATTGTTAGCTCCTCAGTGGGTCACAGTTGGGGAAGATGCTGGTC
45302 I A ACACAATGAGGAAAAGACATTTCCAATACTGTTTTAAATCCTCTTAGAGTCTGACT
45302 P a A CGCGCCGAGGAGCACCTGTATTTCTGAAATY
45302 P g A ATGACGTGGCAGACGGCACCTGTATTTCTGAAAY
AGCCATTTCAGAAATACAGGTGCTGTCAGACTCTAAGAGGATTTAAAACAGTATTGGAAATGTCTTTTCCTCATTGTGT
45302 T a A TC





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56592 T  C   S  CCAGTGGTCCTCAAAACGTAGCGTCCATGAGAACCACTGAGAGCTTGTTAGGAAAAGCCAT
56592 T  T   S  CCAGTGGTCCTCAAAACGTAGTGTCCATGAGAACCACTGAGAGCTTGTTAGGAAAAGCCAT
56592 IS [ct]   agaccctcctagtcacattcacccccattgtgtagccagccagtggtcctcaaaacgtag[ct]gtccatgagaaccactgtagagcttgttaggaaaagccattcagctcagccccacctcccta
56595 I      A  GCTTTTGCCAAAATACCTTCAGAATTTTTAGGAAAAATTAAATGATGCA
56595 P  C   A  ATGACGTGGCAGACCTATGGCTAGAATTCCTATCTGY
56595 P  T   A  CGCGCCGAGGTTATGGCTAGAATTCCTATCTGY
56595 T  C   A  CGTTCAGATAGGAATTCTAGCCATAGGCATCATTTAATTTTTCCTAAAAATTCTGAAGGTATTTTGGCAAAAGCCA
56595 T  T   A  CGTTCAGATAGGAATTCTAGCCATAAGCATCATTTAATTTTTCCTAAAAATTCTGAAGGTATTTTGGCAAAAGCCA
56595 IS [ct]   AAACTTATTTTGGCTTTTGCCAAAATACCTTCAGAATTTTTAGGAAAAATTAAATGATGC[ct]TATGGCTAGAATTCCTAT
56596 I      A  GATCCCTGGAGCAGGGCATCAGGCA
56596 P  C   A  ATGACGTGGCAGACCAGCTGCAAATCGCTY
56596 P  T   A  CGCGCCGAGGTAGCTGCAAATCGCTCY
56596 T  C   A  TATAGAGCGATTTGCAGCTGGCCTGATGCCCTGCTCCAGGGATCCA
56596 T  T   A  TATAGAGCGATTTGCAGCTAGCCTGATGCCCTGCTCCAGGGATCCA
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56601 P  C   S  ATGACGTGGCAGACGAGTCTTAAAACCAGTCATATGTY
56601 P  T   S  CGCGCCGAGGAAGTCTTAAAACCAGTCATATGTY
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56601 IS [ct]   ATGGTATCAGAATAGTGGCCATGTGGAGTTTAATGATGACATATGACTGGTTTTAAGACT[ct]GTGACAGCAAGAAAGA
56602 I      S  TCAGTGAATCCAAGTAAAAGTGACTATTGCGTGCTTTGTGTTCC
56602 P  A   S  CGCGCCGAGGTCTGCTAAATCAAATGCTATGY
56602 P  T   S  ATGACGTGGCAGACACTGCTAAATCAAATGCTATGY
56602 T  A   S  AATCCATAGCATTTGATTTAGCAGAGAACACAAAGCACGCAATAGTCACTTTTACTTGGATTCACTGATG
56602 T  T   S  AATCCATAGCATTTGATTTAGCAGTGAACACAAAGCACGCAATAGTCACTTTTACTTGGATTCACTGATG
56602 IS [at]   CTGTTCCAGGGTTCCAAAACACGCCAAAAGAAACGAAATCCATAGCATTTGATTTAGCAG[at]GAACACAAAGCACGCA
56603 I      S  GGAGAAGCTCACATTTTCTTTTCCCCACCTTGTCATTCCTCA
56603 P  A   S  CGCGCCGAGGTTTCAACCAGGTTTGTGGY
56603 P  G   S  ATGACGTGGCAGACCTTCAACCAGGTTTGTGGY
56603 T  A   S  AAAACCACAAACCTGGTTGAAAGAGGAATGACAAGGTGGGAAAAGAAAATGTGAGCTTCTCCAA
56603 T  G   S  AAAACCACAAACCTGGTTGAAGGAGGAATGACAAGGTGGGAAAAGAAAATGTGAGCTTCTCCAA
56603 IS [ag]   ACAATTACAAGGTTTTCGTTTGTTTGTTTTTAAAAAAACAAAACCACAAACCTGGTTGAA[ag]GAGGAATGACAAGGTGG
56604 I      S  ACACAGGCCTGGGAGGTCCAGAGCT
56604 P  C   S  ATGACGTGGCAGACGGTCATCTTCCATCCATCY
56604 P  T   S  CGCGCCGAGGAGTCATCTTCCATCCATCAY
56604 T  C   S  TACATGATGGATGGAAGATGACCGCTCTGGACCTCCCAGGCCTGTGTCA
56604 T  T   S  TACATGATGGATGGAAGATGACTGCTCTGGACCTCCCAGGCCTGTGTCA
56604 IS [ct]   GTCTCTCCTTCCAGAGCGGATTTCTCTTCTCCCCTGTCTACATGATGGATGGAAGATGAC[ct]GCTCTGGACCTCCCAG
56605 I      A  ACTGGCATCCCTTGGAGGGCTTTAGAATATTCTGATGT
56605 P  C   A  CGCGCCGAGGCTCGGGTCACACTTAAGAY
56605 P  G   A  ATGACGTGGCAGACGTCGGGTCACACTTAAGY
56605 T  C   A  AATCTCTTAAGTGTGACCCGAGCATCAGAATATTCTAAAGCCCTCCAAGGGATGCCAGTGT
56605 T  G   A  AATCTCTTAAGTGTGACCCGACCATCAGAATATTCTAAAGCCCTCCAAGGGATGCCAGTGT
56605 IS [cg]   ATGATTCCAAACCTTGCGTGTACACTGGCATCCCTTGGAGGGCTTTAGAATATTCTGATG[cg]TCGGGTCACACTTAAG
56606 I      A  CGATCAGCAGAGCCAATCCTGCCACCT
56606 P  A   A  CGCGCCGAGGAACAGATGTGTTGAATGCAY
56606 P  G   A  ATGACGTGGCAGACGACAGATGTGTTGAATGCAY
56606 T  A   A  TCTCTGCATTCAACACATCTGTTGGTGGCAGGATTGGCTCTGCTGATCGCC
56606 T  G   A  TCTCTGCATTCAACACATCTGTCGGTGGCAGGATTGGCTCTGCTGATCGCC
56606 IS [ag]   ACAAGCTCATGCTGTGGAGAGACTCCTCACCAGGCGATCAGCAGAGCCAATCCTGCCACC[ag]ACAGATGTGTTGAAT
56607 I      A  CCTCACTTGGTATTTTGCAGTCTCATTGGTTTTACTT
56607 P  A   A  CGCGCCGAGGAGATTCAGTGTTCTCCACY
56607 P  G   A  ATGACGTGGCAGACGGATTCAGTGTTCTCCACY
56607 T  A   A  ACTGGTGGAGAACACTGAATCTAGTAAAACCAATGAGACTGCAAAATACCAAGTGAGGGT
56607 T  G   A  ACTGGTGGAGAACACTGAATCCAGTAAAACCAATGAGACTGCAAAATACCAAGTGAGGGT
56607 IS [ag]   TTTCCTGTCCATGTTTTTATTAACCCTCACTTGGTATTTTGCAGTCTCATTGGTTTTACT]ag]GATTCAGTGTTCTCCACC
56608 I      S  GGTCCCCAGGACACAGATATCAAGGATGGTGTCT
56608 P  C   S  ATGACGTGGCAGACGGGCTCATTATCTCAGACY
56608 P  T   S  CGCGCCGAGGAGGCTCATTATCTCAGACAY
56608 T  C   S  TCAGTGTCTGAGATAATGAGCCCGACACCATCCTTGATATCTGTGTCCTGGGGACCTG
56608 T  T   S  TCAGTGTCTGAGATAATGAGCCTGACACCATCCTTGATATCTGTGTCCTGGGGACCTG
56608 IS [ct]   ACCTTGGTTAACCACTGAAAATCTCCCTAGCCTCAGTTTCAGTGTCTGAGATAATGAGCC[ct]GACACCATCCTTGATAT
56609 I      A  GCCCTGACAGAGCCGTTCCTCTGTCATA
56609 P  C   A  ATGACGTGGCAGACCGCTCGTAGGATGGGY
56609 P  T   A  CGCGCCGAGGTGCTCGTAGGATGGGY
56609 T  C   A  CTGCCCCATCCTACGAGCGATGACAGAGGAACGGCTCTGTCAGGGCCC
56609 T  T   A  CTGCCCCATCCTACGAGCAATGACAGAGGAACGGCTCTGTCAGGGCCC
56609 IS [ct]   GGCTTATGCGGATATGTGCGAGGTTGCCAGGGGGCCCTGACAGAGCCGTTCCTCTGTCAT]ct]GCTCGTAGGATGGG
56612 I      A  GAGAGGCAAGACTTGCAAGGATTTCCTTATTTATACTGTAAATATTCCCCC
56612 P  G   A  ATGACGTGGCAGACGGACTTGAACTGGTTACTGY
56612 P  T   A  CGCGCCGAGGTGACTTGAACTGGTTACTGY
56612 T  G   A  TAACCAGTAACCAGTTCAAGTCCGGGGAATATTTACAGTATAAATAAGGAAATCCTTGCAAGTCTTGCCTCTCAT
56612 T  T   A  TAACCAGTAACCAGTTCAAGTCAGGGGAATATTTACAGTATAAATAAGGAAATCCTTGCAAGTCTTGCCTCTCAT
56612 IS [gt]   TAACAAATATGAGAGGCAAGACTTGCAAGGATTTCCTTATTTATACTGTAAATATTCCCC[gt]GACTTGAACTGGTTACT
56613 I      S  GGCACCCAGCCATGCCTTGGCTAA
56613 P  A   S  CGCGCCGAGGTGGCTAATAGATTTCCTGTTAATY
56613 P  G   S  ATGACGTGGCAGACCGGCTAATAGATTTCCTGTTAY
56613 T  A   S  AATCATTAACAGGAAATCTATTAGCCATAGCCAAGGCATGGCTGGGTGCCCT
56613 T  G   S  AATCATTAACAGGAAATCTATTAGCCGTAGCCAAGGCATGGCTGGGTGCCCT
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FIGURE 129D

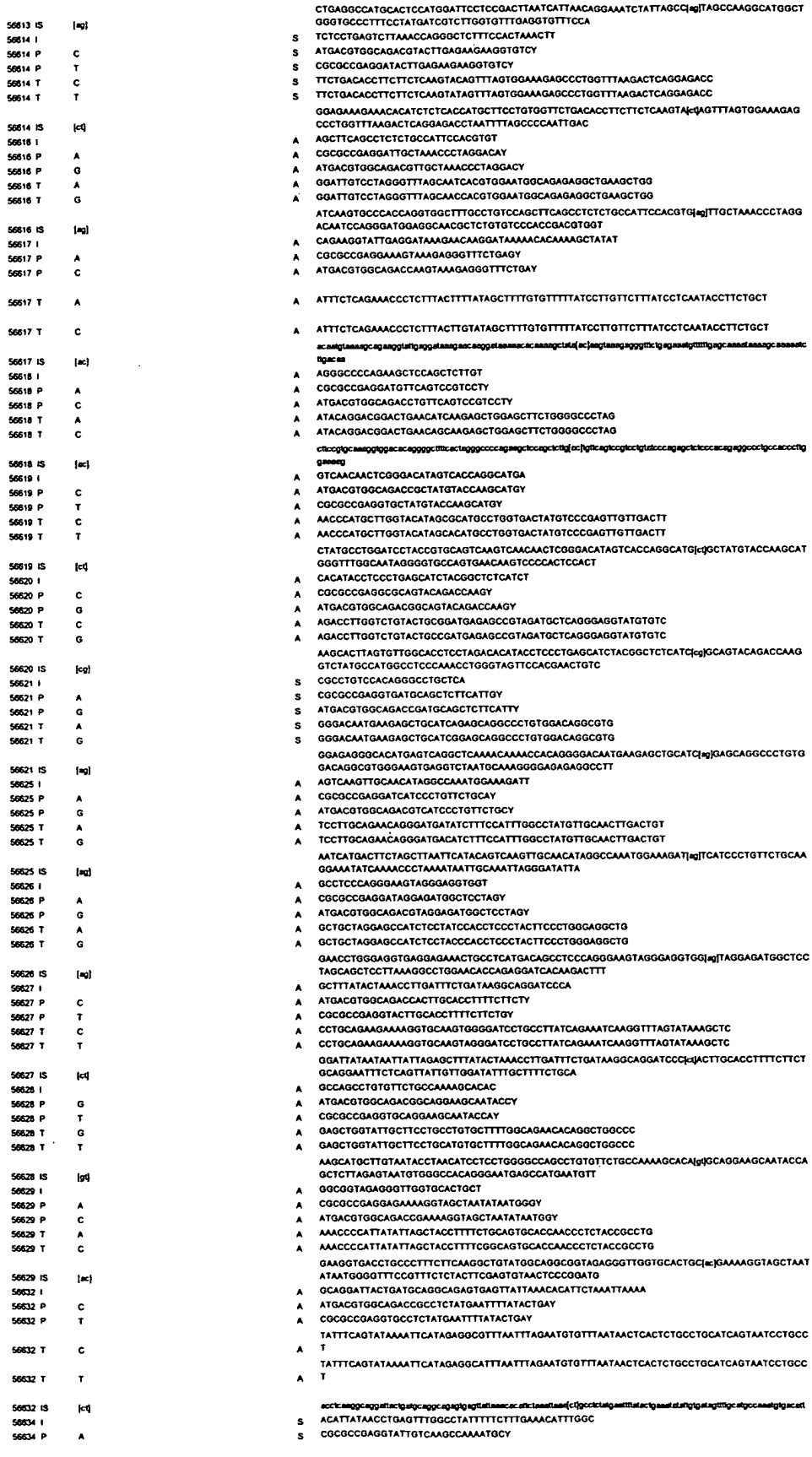


FIGURE 129D

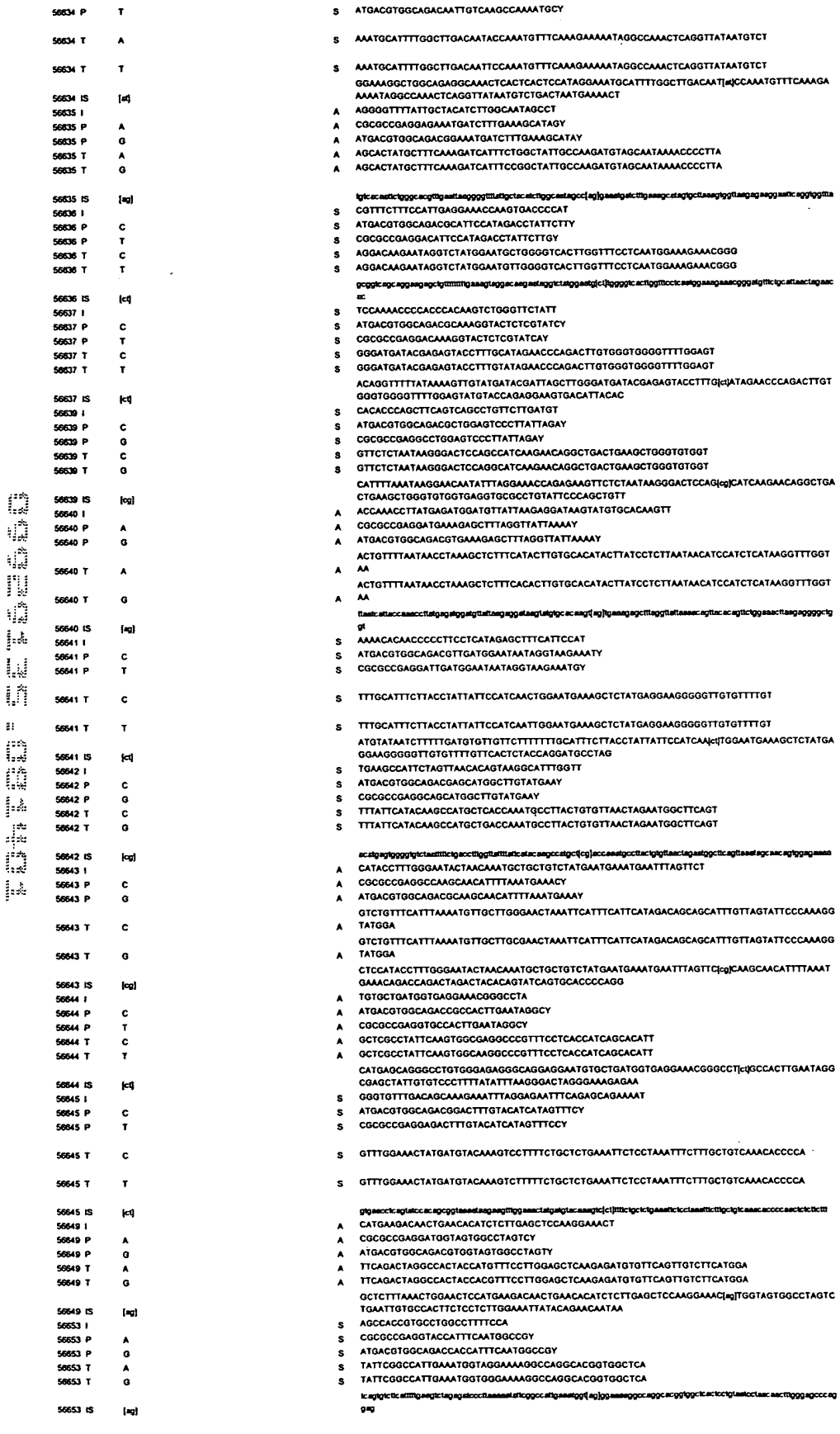


FIGURE 129D

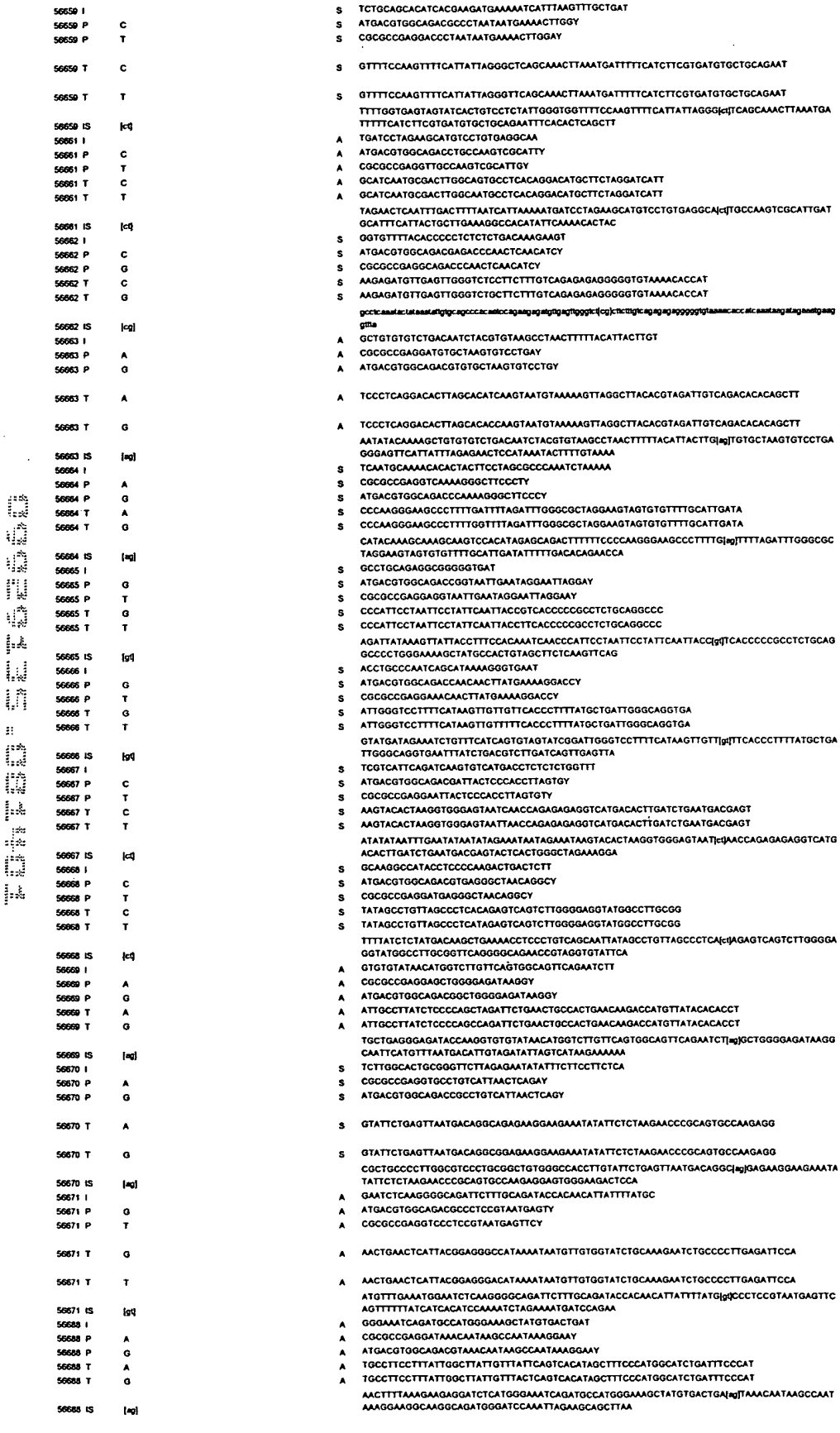
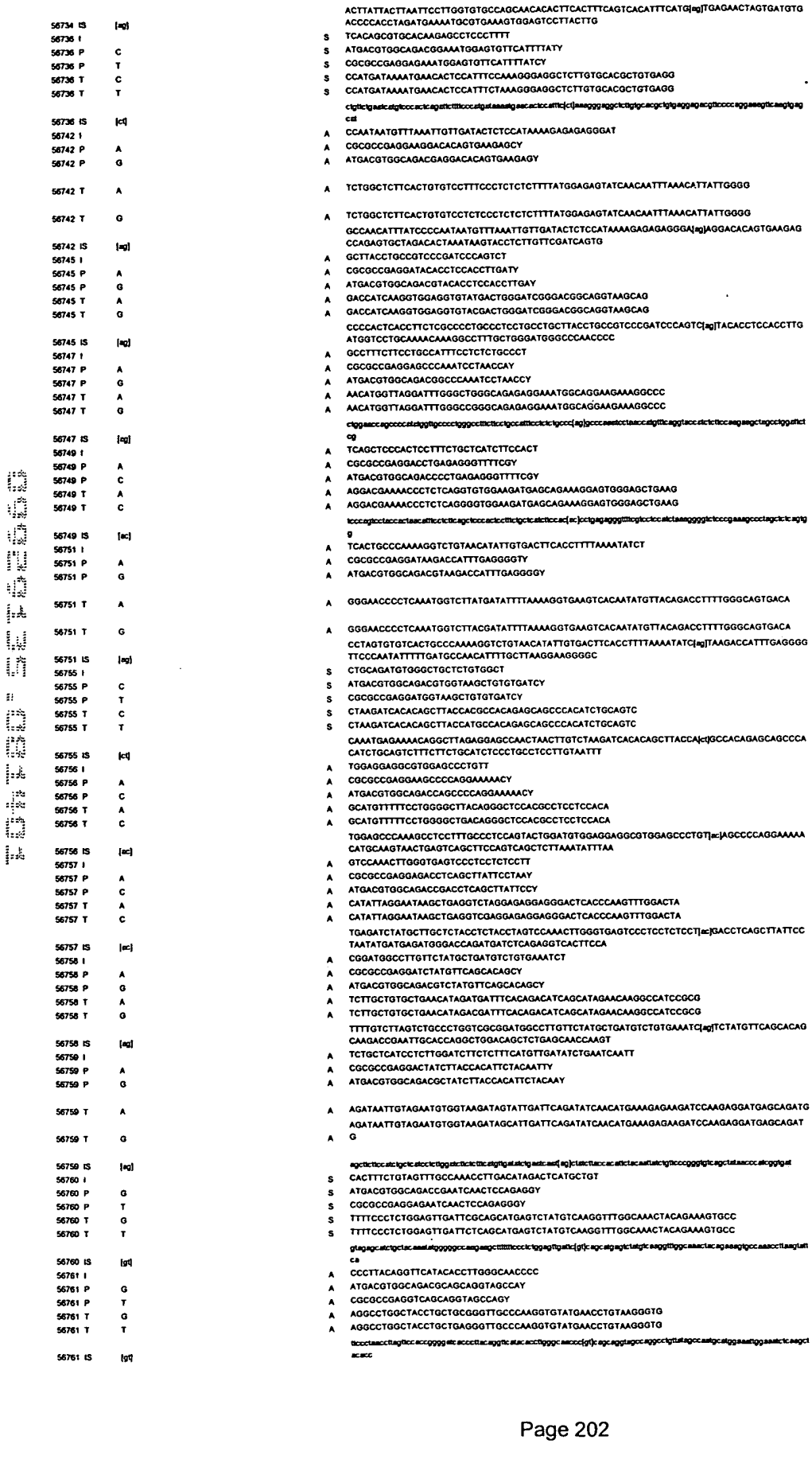
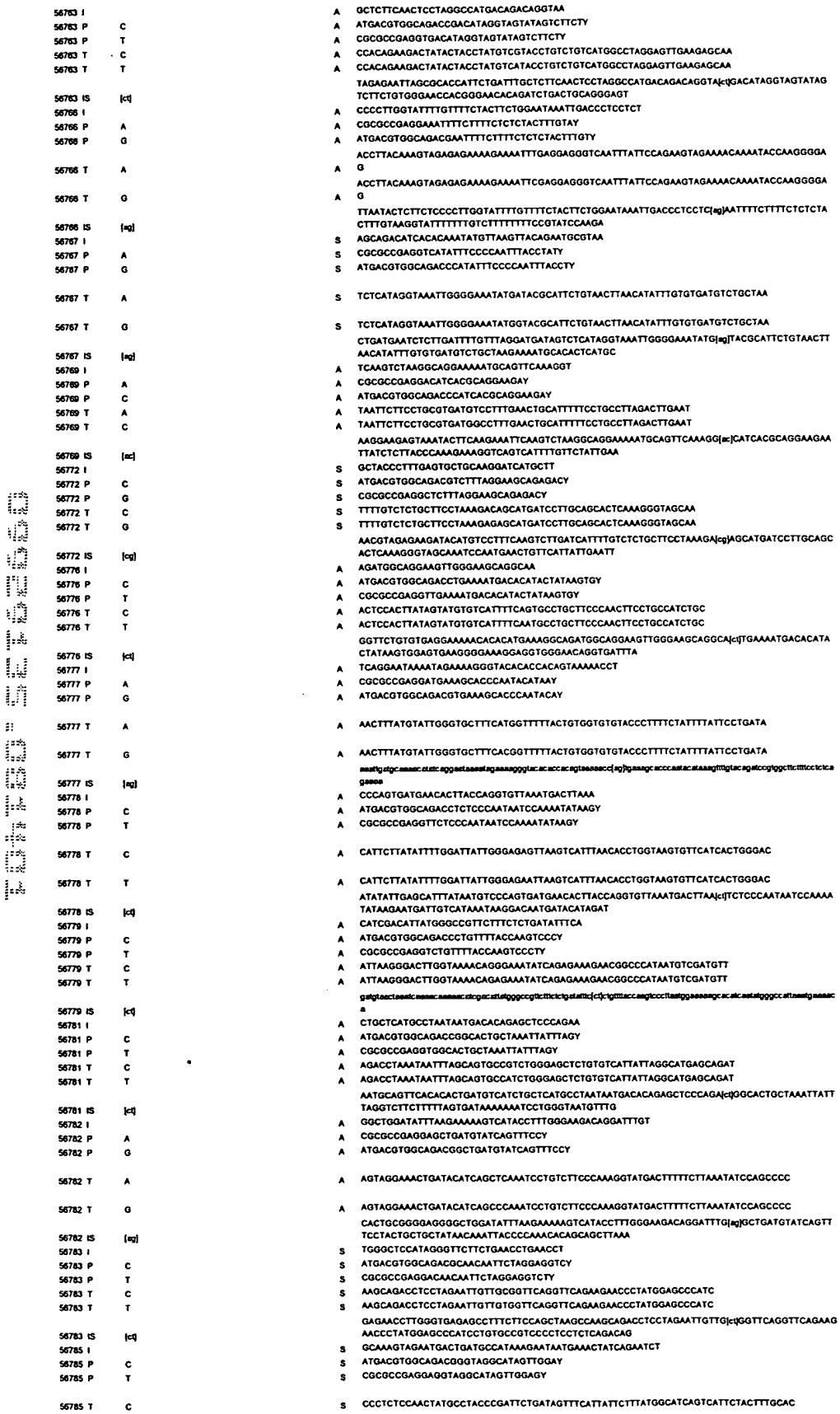

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56659 P C S ATGACGTGGCAGACGCCCTAATAATGAAAACTTGGY
56659 P T S CGCGCCGAGGACCCTAATAATGAAAACTTGGAY
56659 T C S GTTTTCCAAGTTTTCATTATTAGGGCTCAGCAAACTTAAATGATTTTTCATCTTCGTGATGTGCTGCAGAAT
56659 T T S GTTTTCCAAGTTTTCATTATTAGGGTTCAGCAAACTTAAATGATTTTTCATCTTCGTGATGTGCTGCAGAAT
56659 IS [ct] TTTTGGTGAGTAGTATCACTGTCCTCTATTGGGTGGTTTTCCAAGTTTTCATTATTAGGG[ct]TCAGCAAACTTAAATGA
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56661 I A TGATCCTAGAAGCATGTCCTGTGAGGCAA
56661 P C A ATGACGTGGCAGACCTGCCAAGTCGCATTY
56661 P T A CGCGCCGAGGTTGCCAAGTCGCATTGY
56661 T C A GCATCAATGCGACTTGGCAGTGCCTCACAGGACATGCTTCTAGGATCATT
56661 T T A GCATCAATGCGACTTGGCAATGCCTCACAGGACATGCTTCTAGGATCATT
56661 IS [ct] TAGAACTCAATTTGACTTTTAATCATTAAAAATGATCCTAGAAGCATGTCCTGTGAGGCA[ct]TGCCAAGTCGCATTGAT
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56662 T G S AAGAGATGTTGAGTTGGGTCTGCTTCTTTGTCAGAGAGAGGGGGTGTAAAACACCAT
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56663 P G A ATGACGTGGCAGACGTGTGCTAAGTGTCCTGY
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56666 IS [gt] GTATGATAGAAATCTGTTTCATCAGTGTAGTATCGGATTGGGTCCTTTTCATAAGTTGTT[gt]TTCACCCTTTTATGCTGA
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56667 P T S CGCGCCGAGGAATTACTCCCACCTTAGTGY
56667 T C S AAGTACACTAAGGTGGGAGTAATCAACCAGAGAGAGGTCATGACACTTGATCTGAATGACGAGT
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56669 P G A ATGACGTGGCAGACGGCTGGGGAGATAAGGY
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56671 T G A AACTGAACTCATTACGGAGGGCCATAAAATAATGTTGTGGTATCTGCAAAGAATCTGCCCCTTGAGATTCCA
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56688 I A GGGAAATCAGATGCCATGGGAAAGCTATGTGACTGAT
56688 P A A CGCGCCGAGGATAAACAATAAGCCAATAAAGGAAY
56688 P G A ATGACGTGGCAGACGTAAACAATAAGCCAATAAAGGAAY
56688 T A A TGCCTTCCTTTATTGGCTTATTGTTTATTCAGTCACATAGCTTTCCCATGGCATCTGATTTCCCAT
56688 T G A TGCCTTCCTTTATTGGCTTATTGTTTACTCAGTCACATAGCTTTCCCATGGCATCTGATTTCCCAT
56688 IS [ag] AACTTTTAAAGAAGAGGATCTCATGGGAAATCAGATGCCATGGGAAAGCTATGTGACTGA[ag]TAAACAATAAGCCAAT
AAAGGAAGGCAAGGCAGATGGGATCCAAATTAGAAGCAGCTTAA

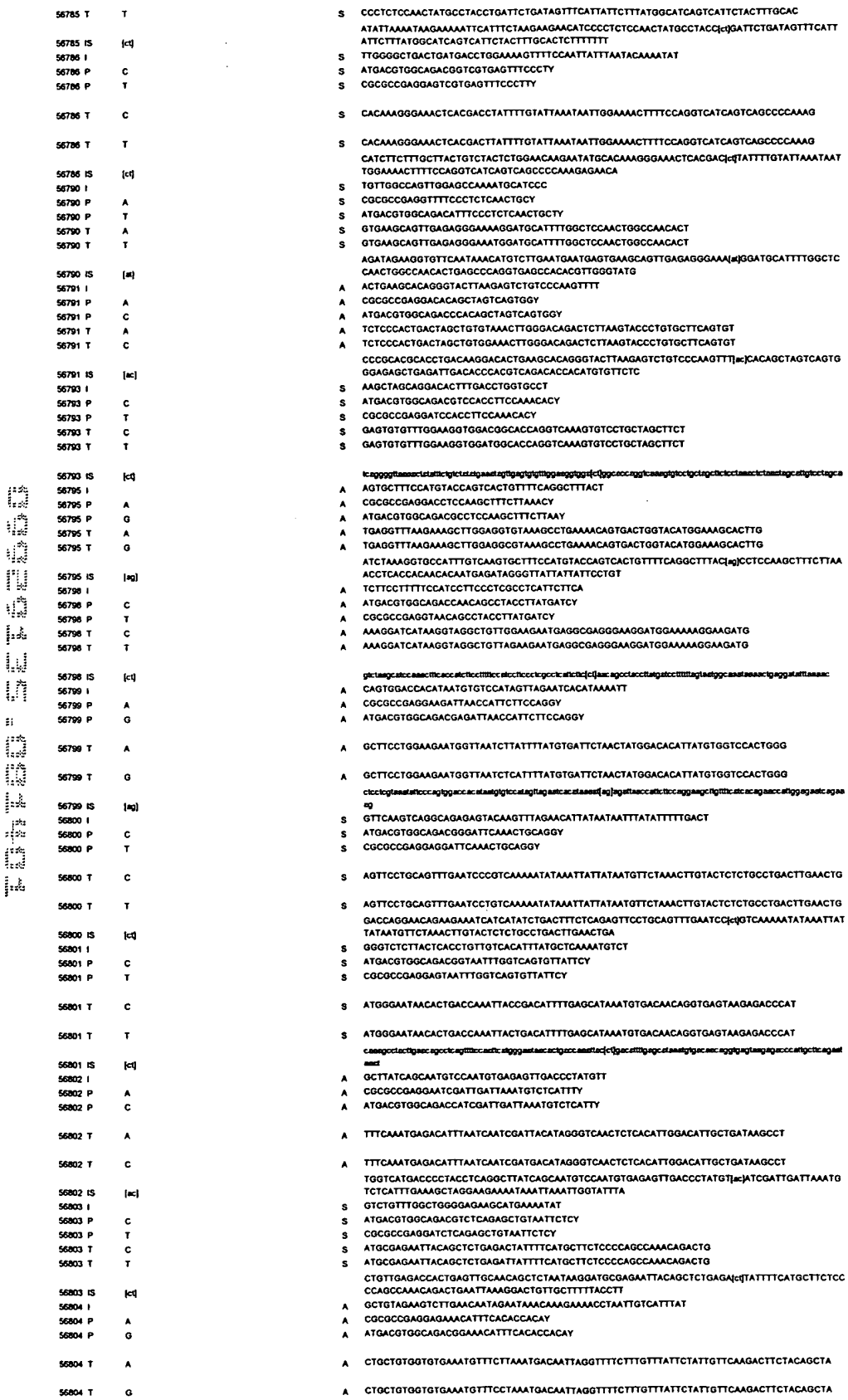
FIGURE 129D

56690	I		S	CCTGACATTTAAATTGGAATCCACTCTTTTCTTCATTCTGTTGACCAAT
56690	P	C	S	ATGACGTGGCAGACGGTAATACTGGGAAAATATGGGY
56690	P	T	S	CGCGCCGAGGAGTAATACTGGGAAAATATGGGY
56690	T	C	S	AATTCCCATATTTTCCCAGTATTACCTTGGTCAACAGAATGAAGAAAAGAGTGGATTCCAATTTAAATGTCAGGGC
56690	T	T	S	AATTCCCATATTTTCCCAGTATTACTTTGGTCAACAGAATGAAGAAAAGAGTGGATTCCAATTTAAATGTCAGGGC
56690	tS	[ct]		catatagggatatagggtatcactttggtaaaccagatcaatttcccatatttcccagtattac[ct]tggtcaaccagaatgaagaaaagagtggattccaatttaaatgtcagggctgtctacttt
56691	I		S	AGGCCACAAGTACACTGAACAAATCCATGTCTGACATTCT
56691	P	C	S	ATGACGTGGCAGACGCTATGCTAATTAGCATATCCTY
56691	P	T	S	CGCGCCGAGGACTATGCTAATTAGCATATCCTCY
56691	T	C	S	ACCTGAGGATATGCTAATTAGCATAGCGAATGTCAGACATGGATTTGTTCAGTGTACTTGTGGCCTGT
56691	T	T	S	ACCTGAGGATATGCTAATTAGCATAGTGAATGTCAGACATGGATTTGTTCAGTGTACTTGTGGCCTGT
56691	tS	[ct]		GGGTGGCTACTAAAAGCCCCATATCTTAAACAGCACCTGAGGATATGCTAATTAGCATAG[ct]GAATGTCAGACATGGA TTTGTTCAGTGTACTTGTGGCCTGTTATTTAGCAAGACTGGTAG
56693	I		S	TTCCAGAGCAATAGATTTACTTTTCCCTCCTCTATGCTCCTCTAT
56693	P	C	S	ATGACGTGGCAGACGCATCTTTTACACACCTCAY
56693	P	T	S	CGCGCCGAGGACATCTTTTACACACCTCAATY
56693	T	C	S	TATTATTGAGGTGTGTAAAAGATGCTAGAGGAGCATAGAGGAGGGAAAAGTAAATCTATTGCTCTGGAAAG
56693	T	T	S	TATTATTGAGGTGTGTAAAAGATGTTAGAGGAGCATAGAGGAGGGAAAAGTAAATCTATTGCTCTGGAAAG
56693	tS	[ct]		TTCTGCTAGACATAATCACAAGAGGAGAGTTAGTATTATTATTGAGGTGTGTAAAAGATG[ct]TAGAGGAGCATAGAGG AGGGAAAAGTAAATCTATTGCTCTGGAAAGAAAGAAGGGAAAGA
56694	I		S	CAGGGGGTAGCATGAACAGAGAGGCTCTTTCTT
56694	P	C	S	ATGACGTGGCAGACGTCGTACATCTGGCTCCY
56694	P	T	S	CGCGCCGAGGATCGTACATCTGGCTCCY
56694	T	C	S	CCTGGGAGCCAGATGTACGACAGAAAGAGCCTCTCTGTTCATGCTACCCCCTGCT
56694	T	T	S	CCTGGGAGCCAGATGTACGATAGAAAGAGCCTCTCTGTTCATGCTACCCCCTGCT
56694	tS	[ct]		TGATGCAGCTTGAGAACATCCCCACCAGGAAAAACGGGCCCCTGGGAGCCAGATGTACGA[ct]AGAAAGAGCCTCTCT GTTCATGCTACCCCCTGCTTTTCATTAGTTGCCTCTCTTTATTAA
56695	I		A	CTGCTGTGGGAATATTTGCAGGCAATTCTAGTTTTGTCCT
56695	P	A	A	CGCGCCGAGGATGTCAACGAATCAATTCAAGY
56695	P	G	A	ATGACGTGGCAGACGTGTCAACGAATCAATTCAAGY
56695	T	A	A	AAAACTTGAATTGATTCGTTGACATGGACAAAACTAGAATTGCCTGCAAATATTCCCACAGCAGTG
56695	T	G	A	AAAACTTGAATTGATTCGTTGACACGGACAAAACTAGAATTGCCTGCAAATATTCCCACAGCAGTG
56695	tS	[ag]		TCGTAAGGGTGGCTCTTATCACTGCTGTGGGAATATTTGCAGGCAATTCTAGTTTTGTCC[ag]TGTCAACGAATCAATT CAAGTTTTGGTTTTTAGTCTGCATTAAATCATCAGTCATTTTTC
56696	I		S	TTGTATTTTAGTGATTGTTTAAGAAATGCAATCGGATTGGTCTATAATATCTTTTACA
56696	P	A	S	CGCGCCGAGGTGTAGCAAAGATTTGGCTY
56696	P	G	S	ATGACGTGGCAGACCGTAGCAAAGATTTGGCTY
56696	T	A	S	CCACAGCCAAATCTTTGCTACAGTAAAAGATATTATAGACCAATCCGATTGCATTTCTTAAACAATCACTAAAATACAAA T
56696	T	G	S	CCACAGCCAAATCTTTGCTACGGTAAAAGATATTATAGACCAATCCGATTGCATTTCTTAAACAATCACTAAAATACAAA T
56696	tS	[ag]		AGAAAGACAGACTTTTGGATGATGTGGAGTTTGTTTTCACCACAGCCAAATCTTTGCTAC[ag]GTAAAAGATATTATAGA CCAATCCGATTGCATTTCTTAAACAATCACTAAAATACAAATT
56698	I		A	CATTGACTAGAACAGGGCAGCAGGGGACTA
56698	P	C	A	ATGACGTGGCAGACCCTGTGGTACTGAAATGATTY
56698	P	T	A	CGCGCCGAGGTCTGTGGTACTGAAATGATTTY
56698	T	C	A	AAGCAAATCATTTCAGTACCACAGGAGTCCCCTGCTGCCCTGTTCTAGTCAATGCT
56698	T	T	A	AAGCAAATCATTTCAGTACCACAGAAGTCCCCTGCTGCCCTGTTCTAGTCAATGCT
56698	tS	[ct]		agaggacagggcactggttaacctttgggagcattgactagaacagggcagcagggga[ct]ctgtggtactgaaatgatttgctctagatatgggtgctggctacacaggagtgt cccttt
56699	I		S	CTGTAGAACAATGCAGTGAAGGAGGGGGCAT
56699	P	C	S	ATGACGTGGCAGACGCTGTCCAGACAGCCY
56699	P	G	S	CGCGCCGAGGCCTGTCCAGACAGCCY
56699	T	C	S	GTTTGGCTGTCTGGACAGCTGCCCCCTCCTTCACTGCATTGTTCTACAGTC
56699	T	G	S	GTTTGGCTGTCTGGACAGGTGCCCCCTCCTTCACTGCATTGTTCTACAGTC
56699	tS	[cg]		ggctagctctactcacaggtgggcaggctgacttaggtggttggctgtctggacag[cg]gccccctcctcactgcattgttctacagtccacgtgtgtccttcctgaggttgctcc c
56700	I		A	GCACTGTGCACACTTTGTGAGGAGGGTCGA
56700	P	C	A	ATGACGTGGCAGACCGCTCATTGGAGAGACTY
56700	P	T	A	CGCGCCGAGGTGCTCATTGGAGAGACTY
56700	T	C	A	ACCGAGTCTCTCCAATGAGCGCGACCCTCCTCACAAAGTGTGCACAGTGCTT
56700	T	T	A	ACCGAGTCTCTCCAATGAGCACGACCCTCCTCACAAAGTGTGCACAGTGCTT
56700	tS	[ct]		ccctacatcctgtaaatttacccaggagagaagcactgtgcacactttgtgaggagggtcg[ct]gctcatggagagactcgggaaagcaacgaggagactgtacaagcacacaca cgcagcctc
56702	I		A	CCACAAGCAGGTATTGCTTCTACTTTTAAACATAAAGAGGGAAGCT
56702	P	A	A	CGCGCCGAGGAAGGACAAGATGACCAACY
56702	P	G	A	ATGACGTGGCAGACGAGGACAAGATGACCAACY
56702	T	A	A	TCTAGTTGGTCATCTTGTCCTTGCTTCCCTCTTTATGTTTAAAAGTAGAAGCAATACCTGCTTGTGGGA
56702	T	G	A	TCTAGTTGGTCATCTTGTCCTCGCTTCCCTCTTTATGTTTAAAAGTAGAAGCAATACCTGCTTGTGGGA
56702	tS	[ag]		ATCCTTATCACAATCCCCACAAGCAGGTATTGCTTCTACTTTTAAACATAAAGAGGGAAGC[ag]AGGACAAGATGACCAA CTAGAAACAGTGGCGATCAGAGGCTCCCATTGAAAAGAAACATA
56704	I		S	CATCAACCAATCAGAATTCAACAAATGCCAACCAGTCACCT
56704	P	C	S	ATGACGTGGCAGACGCTAAGAAAGTGGACCAGY
56704	P	T	S	CGCGCCGAGGACTAAGAAAGTGGACCAGAY
56704	T	C	S	CCACTCTGGTCCACTTTCTTAGCGGTGACTGGTTGGCATTTGTTGAATTCTGATTGGTTGATGCA
56704	T	T	S	CCACTCTGGTCCACTTTCTTAGTGGTGACTGGTTGGCATTTGTTGAATTCTGATTGGTTGATGCA
56704	tS	[ct]		GAACAAAGAGGGTTTGTGTTGGGTTCCTGCCCAAGTTCCCACTCTGGTCCACTTTCTTAG[ct]GGTGACTGGTTGGCAT TTGTTGAATTCTGATTGGTTGATGCAGGTTGCACTCTAATGGCT
56705	I		S	GGATTAAGGAGAATGCACGTGTTCTGCAGTGT
56705	P	C	S	ATGACGTGGCAGACGCTGGAACATAGTAGATGCY
56705	P	G	S	CGCGCCGAGGCCTGGAACATAGTAGATGCY
56705	T	C	S	TTGAGCATCTACTATGTTCCAGCCACTGCAGAACACGTGCATTCTCCTTAATCCTT
56705	T	G	S	TTGAGCATCTACTATGTTCCAGGCACTGCAGAACACGTGCATTCTCCTTAATCCTT
56705	tS	[cg]		GTCGCTGCTCATAGATTTCTGGTAGGAATCATCATTTATTGAGCATCTACTATGTTCCAG[cg]CACTGCAGAACACGTG CATTCTCCTTAATCCTTATCACAATCCCACAAGCAGGTATTGCT
56706	I		S	GGGTGAAGGCTGTGGAAGAGGAGGAAT
56706	P	C	S	ATGACGTGGCAGACGGATTGAGAAACTCTTACAGATY
56706	P	T	S	CGCGCCGAGGAGATTGAGAAACTCTTACAGATTY
56706	T	C	S	CTGCAATCTGTAAGAGTTTCTCAATCCTTCCTCCTCTTCCACAGCCTTCACCCTT
56706	T	T	S	CTGCAATCTGTAAGAGTTTCTCAATCTTTCCTCCTCTTCCACAGCCTTCACCCTT

56706 IS	[ct]		acctgggatggtgtactccccttagtctctgcaatctgtaagagtttctcaatc[ct]tcctcctcttccacagcctcacccttttaaagatcatgactggttgtttcaagtgtt	
56708 I		A	GCTGGCCTCCAGGAGCCCCCT	
56708 P	A	A	CGCGCCGAGGATGAACCATCTGTCCATTTACY	
56708 P	G	A	ATGACGTGGCAGACGTGAACCATCTGTCCATTTY	
56708 T	A	A	AAATGTAAATGGACAGATGGTTCATGGGGGCTCCTGGAGGCCAGCCA	
56708 T	G	A	AAATGTAAATGGACAGATGGTTCACGGGGGCTCCTGGAGGCCAGCCA	
56708 IS	[ag]		TATAAATTCAAGGTGCCCTGTGCTTCTGCCCATACTTTTGGCTGGCCTCCAGGAGCCCCC[ag]TGAACCATCTGTCCAT TTACATTTGTACTGAATTGTCAAAGACAATCATGATGTTGCCTG	
56709 I		A	TGCCTTGACCAAATCCTTTAAGACCTGAGGAAATAAATTTGGACTTATGT	
56709 P	A	A	CGCGCCGAGGAGAAAGCCATGTGAACTAAAY	
56709 P	G	A	ATGACGTGGCAGACGGAAAGCCATGTGAACTAAY	
56709 T	A	A	TTTATTTAGTTCACATGGCTTTCTCATAAGTCCAAATTTATTTCCTCAGGTCTTAAAGGATTTGGTCAAGGCAGA	
56709 T	G	A	TTTATTTAGTTCACATGGCTTTCCCATAAGTCCAAATTTATTTCCTCAGGTCTTAAAGGATTTGGTCAAGGCAGA	
56709 IS	[ag]		GCCTGATGGTCTGCCTTGACCAAATCCTTTAAGACCTGAGGAAATAAATTTGGACTTATG[ag]GAAAGCCATGTGAACT AAATAAACAGTCGTGGTTACTTCCATGAAGCACCAGTCTAACAG	
56710 I		S	CAACAGTGGTATAGCCTCTAAACAAGAGAAATTTGCTTTGTTTACAGATGAT	
56710 P	G	S	ATGACGTGGCAGACCATATTGATTAATGACACTTGGGY	
56710 P	T	S	CGCGCCGAGGAATATTGATTAATGACACTTGGGY	
56710 T	G	S	GACACCCAAGTGTCATTAATCAATATGTCATCTGTAAACAAAGCAAATTTCTCTTGTTTAGAGGCTATACCACTGTTGC A	
56710 T	T	S	GACACCCAAGTGTCATTAATCAATATTTCATCTGTAAACAAAGCAAATTTCTCTTGTTTAGAGGCTATACCACTGTTGCA	
56710 IS	[gt]		tacaatctctgcatgtccaatttgatttccatgggacacccaagtgtcattaatcaatat[gt]tcatctgtaaacaaagcaaatttctctgtttagaggctatacccactgttgcagccagtt	
56711 I		A	TGATTACCTCAATCCAACCAGGGGTTTAGCTGGATTGT	
56711 P	A	A	CGCGCCGAGGAGACCACATTGTAATTTCAGTY	
56711 P	G	A	ATGACGTGGCAGACGGACCACATTGTAATTTCAGY	
56711 T	A	A	GCTTACTGAAATTACAATGTGGTCTCAATCCAGCTAAACCCCTGGTTGGATTGAGGTAATCAAT	
56711 T	G	A	GCTTACTGAAATTACAATGTGGTCCCAATCCAGCTAAACCCCTGGTTGGATTGAGGTAATCAAT	
56711 IS	[ag]		CTTCTGTAGATAGGGTGAGAGATTGATTACCTCAATCCAACCAGGGGTTTAGCTGGATTG[ag]GACCACATTGTAATTT CAGTAAGCTAGGTCTTCTCTGGTTCACCCCTATTCCTTAGACAT	
56715 I		A	CAGGAGTGAGAGATGACACGGGAGTCCAGGT	
56715 P	A	A	CGCGCCGAGGATTCCTATGGTGACTGACAY	
56715 P	C	A	ATGACGTGGCAGACCTTCCTATGGTGACTGACAY	
56715 T	A	A	TTTATGTCAGTCACCATAGGAATCCTGGACTCCCGTGTCATCTCTCACTCCTGTG	
56715 T	C	A	TTTATGTCAGTCACCATAGGAAGCCTGGACTCCCGTGTCATCTCTCACTCCTGTG	
56715 IS	[ac]		GAAGTAAAGAGGCAAATGAGGATCAGGACACAGGAGTGAGAGATGACACGGGAGTCCAGG[ac]TTCCTATGGTGACT GACATAAACGGGAATAAGACGTGTGATGAGATTGCTTCTGAGGGTC	
56716 I		S	CCTTCTAATATTATATTATTAAACCTGGAGTCAACGCAGTGAAATTTTTTACCT	
56716 P	C	S	ATGACGTGGCAGACGTGTCCTTCAAAGCTCTCY	
56716 P	G	S	CGCGCCGAGGCTGTCCTTCAAAGCTCTCY	
56716 T	C	S	GAGGGAGAGCTTTGAAGGACACGGTAAAAAATTTCACTGCGTTGACTCCAGGTTTAATAATATAATATTAGAAGGAA	
56716 T	G	S	GAGGGAGAGCTTTGAAGGACAGGGTAAAAAATTTCACTGCGTTGACTCCAGGTTTAATAATATAATATTAGAAGGAA	
56716 IS	[cg]		tctctgtactcgtagggatcgctggatgcattcctcagagggagagcttgaaggac[cg]ggtaaaaaattcactgcgttgactccaggtttaataatataatattagaaggaagaa ac	
56717 I		A	ACTGGAAATCTGCTGTTTTTGTCTTTCCAGCCTAGGAGA	
56717 P	C	A	ATGACGTGGCAGACCCTTTTCCCCATTTACTCGY	
56717 P	T	A	CGCGCCGAGGTCTTTTCCCCATTTACTCGY	
56717 T	C	A	CAAACGAGTAAATGGGGAAAAGGCTCCTAGGCTGGAAAGACAAAAACAGCAGATTTCCAGTTC	
56717 T	T	A	CAAACGAGTAAATGGGGAAAAGACTCCTAGGCTGGAAAGACAAAAACAGCAGATTTCCAGTTC	
56717 IS	[ct]		ATAGTCATAAAAGTAGTGATGAACTGGAAATCTGCTGTTTTTGTCTTTCCAGCCTAGGAG[ct]CTTTTCCCCATTTACTC GTTTGTTTACAAATATTTTTTGAGTGGTTGTCATGTGCTGGGC	
56719 I		A	GCCTTAAGAGTTGGTGGAGAAAGGATGGTCTATTCAATTACCTGT	
56719 P	A	A	CGCGCCGAGGAGCTGAGAAACTGGCTY	
56719 P	G	A	ATGACGTGGCAGACGGCTGAGAAACTGGCY	
56719 T	A	A	TGAAAGCCAGTTTCTCAGCTCAGGTAATTGAATAGACCATCCTTTCTCCACCAACTCTTAAGGCTA	
56719 T	G	A	TGAAAGCCAGTTTCTCAGCCCAGGTAATTGAATAGACCATCCTTTCTCCACCAACTCTTAAGGCTA	
56719 IS	[ag]		caatagagcagaagtagcctaagagttggtggagaaaggatggtctattcaattacctg[ag]gctgagaaactggctttcatatggaataaaaataaaattatagctatacccatat ccta	
56720 I		A	TCTTGGCTCTGTTCTAGGTGCTTTACGTTAACTCT	
56720 P	A	A	CGCGCCGAGGATTTAATCCTTGTAATAAGCCTGY	
56720 P	G	A	ATGACGTGGCAGACGTTTAATCCTTGTAATAAGCCTGY	
56720 T	A	A	ATCTCAGGCTTATTACAAGGATTAAATGAGTTAACGTAAAGCACCTAGAACAGAGCCAAGAAT	
56720 T	G	A	ATCTCAGGCTTATTACAAGGATTAAACGAGTTAACGTAAAGCACCTAGAACAGAGCCAAGAAT	
56720 IS	[ag]		taacttttagcatcagtgcgttctatcattctggctctgttctaggtgctttacgttaactc[ag]tttaatcccttgtaataagcctgagatgtaggactgttattgtgtcccccatttttgtagtatga	
56723 I		A	GTTAGGGAAGAATTACTTTAGACAAGAACAGGACACTTATAATAGTTCTTTT	
56723 P	A	A	CGCGCCGAGGAAGAAATCATATTCTTCCTCTACAY	
56723 P	G	A	ATGACGTGGCAGACGAGAAATCATATTCTTCCTCTACAY	
56723 T	A	A	CAGCTGTAGAGGAAGAATATGATTTCTTAAAGAACTATTATAAGTGTCCTGTTCTTGTCTAAAGTAATTCTTCCCTAACA C	
56723 T	G	A	CAGCTGTAGAGGAAGAATATGATTTCTCAAAGAACTATTATAAGTGTCCTGTTCTTGTCTAAAGTAATTCTTCCCTAACA C	
56723 IS	[ag]		agattctgtgttagggaagaattacttagacaagaacaggacacttatagttcttt[ag]agaatcatattctcctctacagcttctttccctacagtcttatttaaaattcc	OR5V1
56727 I		A	CAGTCTCAGGTTCCCAGGGGAAAGGGCTAAATAAT	
56727 P	A	A	CGCGCCGAGGAGACAATCTGCAATGCATY	
56727 P	G	A	ATGACGTGGCAGACGGACAATCTGCAATGCAY	
56727 T	A	A	TCCAATGCATTGCAGATTGTCTTTATTTAGCCCTTTCCCCTGGGAACCTGAGACTGAG	
56727 T	G	A	TCCAATGCATTGCAGATTGTCCTTATTTAGCCCTTTCCCCTGGGAACCTGAGACTGAG	
56727 IS	[ag]		AAAAAAAGCATAGCTTGCACTGCTCTCAGTCTCAGGTTCCCAGGGGAAAGGGCTAAATAA[ag]GACAATCTGCAATGCA TTGGAAGGAAAAACTGAGAGGCTTATACATTTATGAGAGGTATC	
56729 I		A	GTTCAGGCAGGAAAAAGTGTGTGTTTCCAGATGGTT	
56729 P	A	A	CGCGCCGAGGAGCTTTGCACCTTCAGY	
56729 P	G	A	ATGACGTGGCAGACGGCTTTGCACCTTCAGY	
56729 T	A	A	TTAACTGAAGGTGCAAAGCTACCATCTGGAAACACACACTTTTTCCTGCCTGAACAA	
56729 T	G	A	TTAACTGAAGGTGCAAAGCCACCATCTGGAAACACACACTTTTTCCTGCCTGAACAA	
56729 IS	[ag]		ATGCAGCAGAATGTTCTATTGCATTGTTCAGGCAGGAAAAAGTGTGTGTTTCCAGATGGT[ag]GCTTTGCACCTTCAGT TAATAATTCTAATAAATTCACCATGATGATACTTGGCATCTGGA	
56734 I		A	TGCCAGCAACACACTTCACTTTCAGTCACATTTCATGT	
56734 P	A	A	CGCGCCGAGGATGAGAACTAGTGATGTGACY	
56734 P	G	A	ATGACGTGGCAGACGTGAGAACTAGTGATGTGACY	
56734 T	A	A	TGGGGTCACATCACTAGTTCTCATCATGAAATGTGACTGAAAGTGAAGTGTGTTGCTGGCACA	
56734 T	G	A	TGGGGTCACATCACTAGTTCTCACCATGAAATGTGACTGAAAGTGAAGTGTGTTGCTGGCACA	




56763 I A GCTCTTCAACTCCTAGGCCATGACAGACAGGTAA
56763 P C A ATGACGTGGCAGACCGACATAGGTAGTATAGTCTTCTY
56763 P T A CGCGCCGAGGTGACATAGGTAGTATAGTCTTCTY
56763 T C A CCACAGAAGACTATACTACCTATGTCGTACCTGTCTGTCATGGCCTAGGAGTTGAAGAGCAA
56763 T T A CCACAGAAGACTATACTACCTATGTCATACCTGTCTGTCATGGCCTAGGAGTTGAAGAGCAA
56763 IS [ct] TAGAGAATTAGCGCACCATTCTGATTTGCTCTTCAACTCCTAGGCCATGACAGACAGGTA[ct]GACATAGGTAGTATAG
56766 I A CCCCTTGGTATTTTGTTTTCTACTTCTGGAATAAATTGACCCTCCTCT
56766 P A A CGCGCCGAGGAAATTTTCTTTTCTCTCTACTTTGTAY
56766 P G A ATGACGTGGCAGACGAATTTTCTTTTCTCTCTACTTTGTY
56766 T A A ACCTTACAAAGTAGAGAGAAAAGAAAATTTGAGGAGGGTCAATTTATTCCAGAAGTAGAAAACAAAATACCAAGGGGA G
56766 T G A ACCTTACAAAGTAGAGAGAAAAGAAAATTCGAGGAGGGTCAATTTATTCCAGAAGTAGAAAACAAAATACCAAGGGGA G
56766 IS [ag] TTAATACTCTTCTCCCCTTGGTATTTTGTTTTCTACTTCTGGAATAAATTGACCCTCCTC[ag]AATTTTCTTTTCTCTCTA CTTTGTAAGGTATTTTTTTTGTCTTTTTTTTCCGTATCCAAGA
56767 I S AGCAGACATCACACAAATATGTTAAGTTACAGAATGCGTAA
56767 P A S CGCGCCGAGGTCATATTTCCCCAATTTACCTATY
56767 P G S ATGACGTGGCAGACCCATATTTCCCCAATTTACCTY
56767 T A S TCTCATAGGTAAATTGGGGAAATATGATACGCATTCTGTAACTTAACATATTTGTGTGATGTCTGCTAA
56767 T G S TCTCATAGGTAAATTGGGGAAATATGGTACGCATTCTGTAACTTAACATATTTGTGTGATGTCTGCTAA
56767 IS [ag] CTGATGAATCTCTTGATTTTGTTTAGGATGATAGTCTCATAGGTAAATTGGGGAAATATG[ag]TACGCATTCTGTAACTT AACATATTTGTGTGATGTCTGCTAAGAAAATGCACACTCATGC
56769 I A TCAAGTCTAAGGCAGGAAAAATGCAGTTCAAAGGT
56769 P A A CGCGCCGAGGACATCACGCAGGAAGAY
56769 P C A ATGACGTGGCAGACCCATCACGCAGGAAGAY
56769 T A A TAATTCTTCCTGCGTGATGTCCTTTGAACTGCATTTTTCCTGCCTTAGACTTGAAT
56769 T C A TAATTCTTCCTGCGTGATGGCCTTTGAACTGCATTTTTCCTGCCTTAGACTTGAAT
56769 IS [ac] AAGGAAGAGTAAATACTTCAAGAAATTCAAGTCTAAGGCAGGAAAAATGCAGTTCAAAGG[ac]CATCACGCAGGAAGAA TTATCTCTTACCCAAAGAAAGGTCAGTCATTTTGTTCTATTGAA
56772 I S GCTACCCTTTGAGTGCTGCAAGGATCATGCTT
56772 P C S ATGACGTGGCAGACGTCTTTAGGAAGCAGAGACY
56772 P G S CGCGCCGAGGCTCTTTAGGAAGCAGAGACY
56772 T C S TTTTGTCTCTGCTTCCTAAAGACAGCATGATCCTTGCAGCACTCAAAGGGTAGCAA
56772 T G S TTTTGTCTCTGCTTCCTAAAGAGAGCATGATCCTTGCAGCACTCAAAGGGTAGCAA
56772 IS [cg] AACGTAGAGAAGATACATGTCCTTTCAAGTCTTGATCATTTTGTCTCTGCTTCCTAAAGA[cg]AGCATGATCCTTGCAGC ACTCAAAGGGTAGCAAATCCAATGAACTGTTCATTATTGAATT
56776 I A AGATGGCAGGAAGTTGGGAAGCAGGCAA
56776 P C A ATGACGTGGCAGACCTGAAAATGACACATACTATAAGTGY
56776 P T A CGCGCCGAGGTTGAAAATGACACATACTATAAGTGY
56776 T C A ACTCCACTTATAGTATGTGTCATTTTCAGTGCCTGCTTCCCAACTTCCTGCCATCTGC
56776 T T A ACTCCACTTATAGTATGTGTCATTTTCAATGCCTGCTTCCCAACTTCCTGCCATCTGC
56776 IS [ct] GGTTCTGTGTGAGGAAAAACACACATGAAAGGCAGATGGCAGGAAGTTGGGAAGCAGGCA[ct]TGAAAATGACACATA CTATAAGTGGAGTGAAGGGGAAAGGAGGTGGGAACAGGTGATTTA
56777 I A TCAGGAATAAAATAGAAAAAGGGTACACACCACAGTAAAAACCT
56777 P A A CGCGCCGAGGATGAAAGCACCCAATACATAAY
56777 P G A ATGACGTGGCAGACGTGAAAGCACCCAATACAY
56777 T A A AACTTTATGTATTGGGTGCTTTCATGGTTTTTACTGTGGTGTGTACCCTTTTCTATTTTATTCCTGATA
56777 T G A AACTTTATGTATTGGGTGCTTTCACGGTTTTTACTGTGGTGTGTACCCTTTTCTATTTTATTCCTGATA
56777 IS [ag] aaatfgatgcaaaacctctcaggaataaaatagaaaagggtacacaccacagtaaaaacc[ag]tgaagcacccaatacataaagtttgtacagatccgtggcttctttcctctcagaaaa
56778 I A CCCAGTGATGAACACTTACCAGGTGTTAAATGACTTAAA
56778 P C A ATGACGTGGCAGACCTCTCCCAATAATCCAAAATATAAGY
56778 P T A CGCGCCGAGGTTCTCCCAATAATCCAAAATATAAGY
56778 T C A CATTCTTATATTTTGGATTATTGGGAGAGTTAAGTCATTTAACACCTGGTAAGTGTTCATCACTGGGAC
56778 T T A CATTCTTATATTTTGGATTATTGGGAGAATTAAGTCATTTAACACCTGGTAAGTGTTCATCACTGGGAC
56778 IS [ct] ATATATTGAGCATTTATAATGTCCCAGTGATGAACACTTACCAGGTGTTAAATGACTTAA[ct]TCTCCCAATAATCCAAAA TATAAGAATGATTGTCATAAATAAGGACAATGATACATAGAT
56779 I A CATCGACATTATGGGCCGTTCTTTCTCTGATATTTCA
56779 P C A ATGACGTGGCAGACCCTGTTTTACCAAGTCCCY
56779 P T A CGCGCCGAGGTCTGTTTTACCAAGTCCCTY
56779 T C A ATTAAGGGACTTGGTAAAACAGGGAAATATCAGAGAAAGAACGGCCCATAATGTCGATGTT
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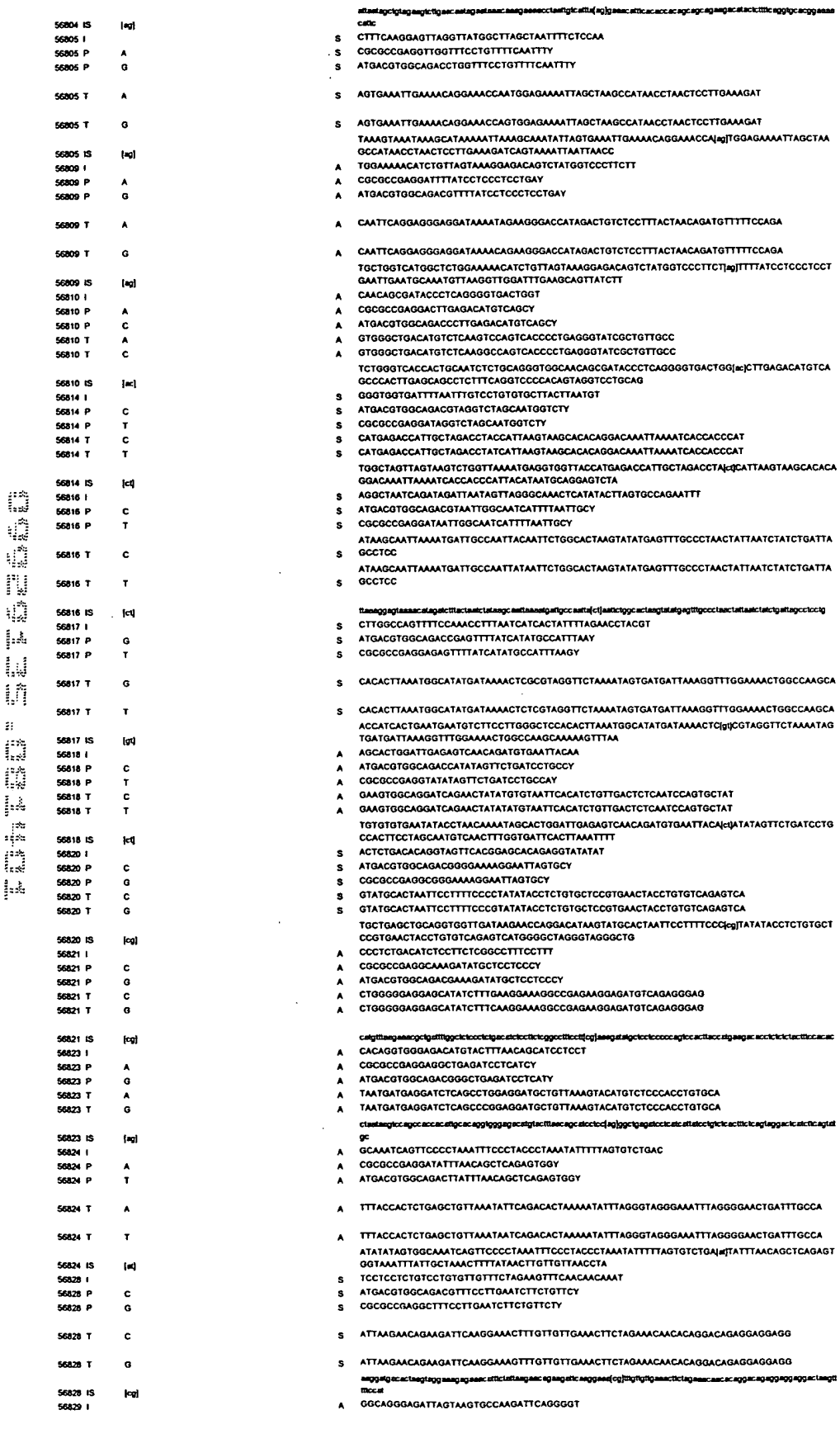
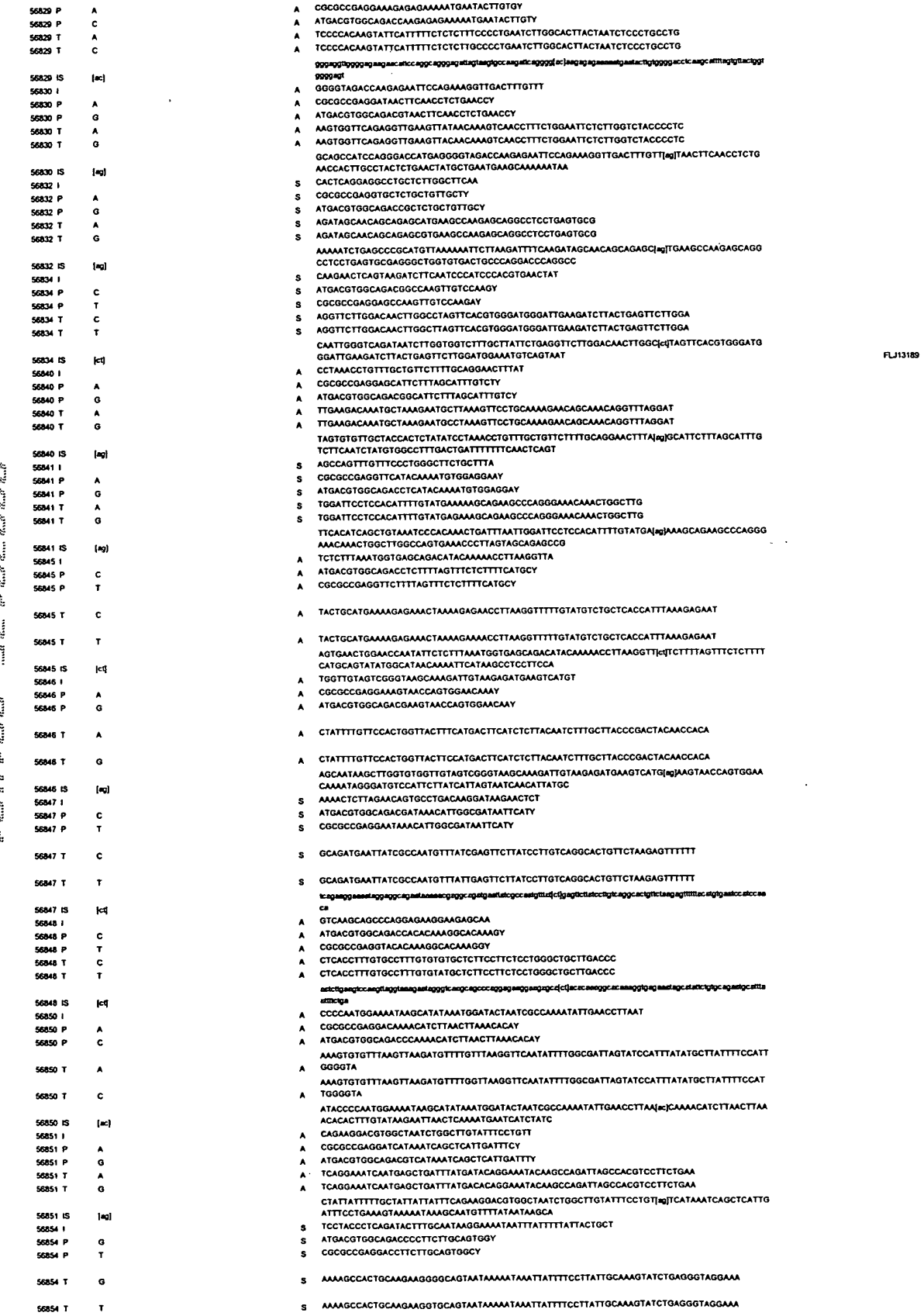

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FIGURE 129D



FL_13189

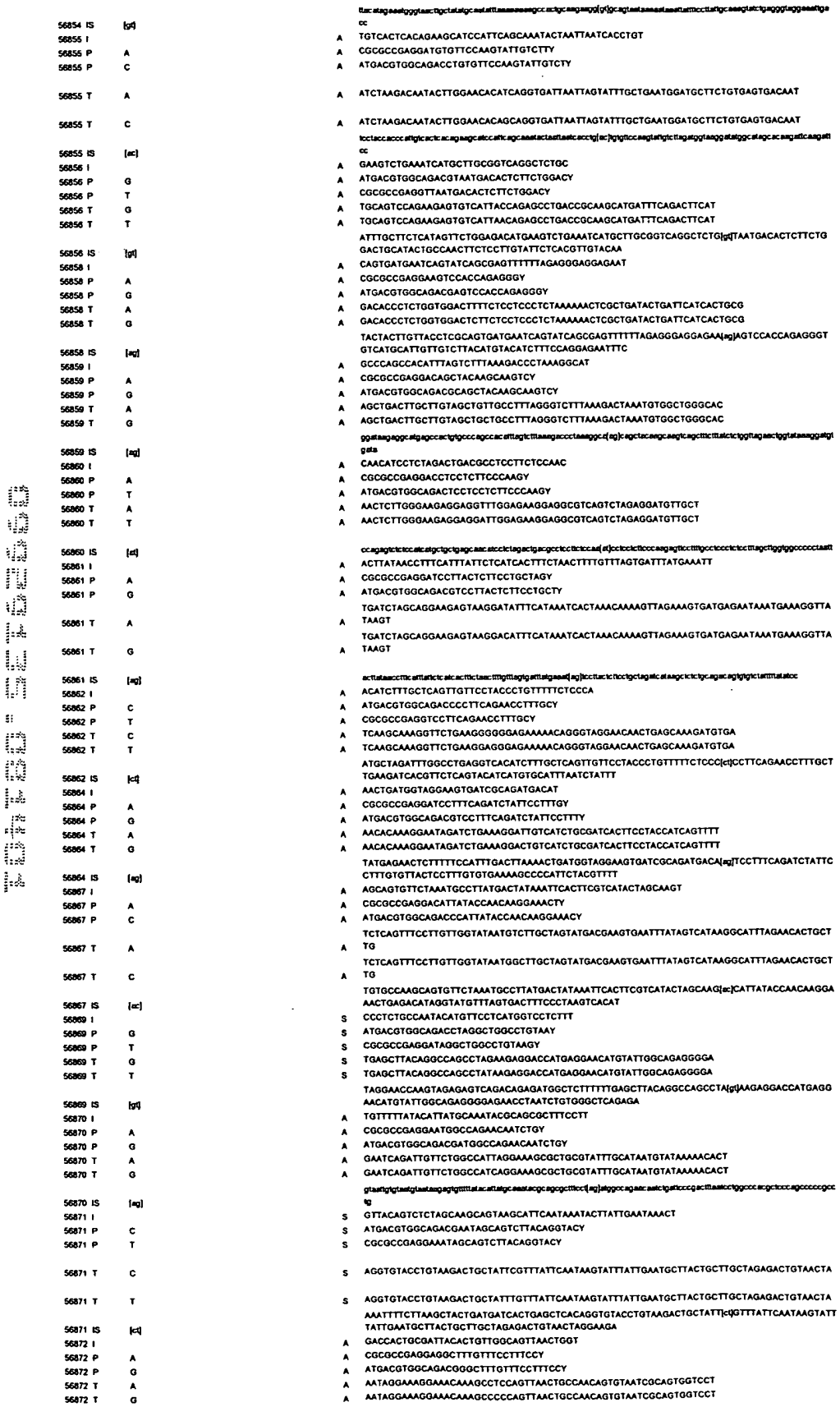
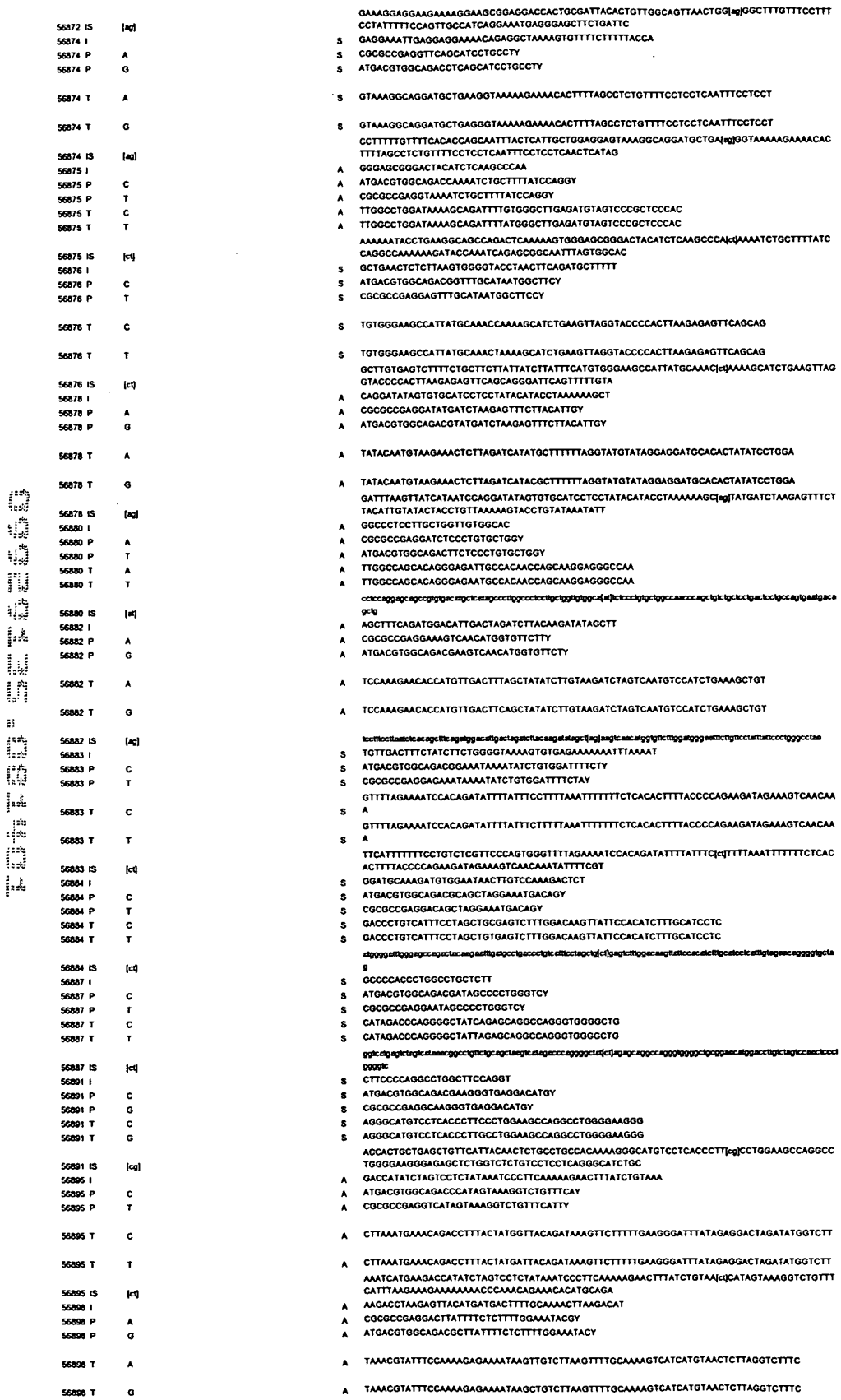
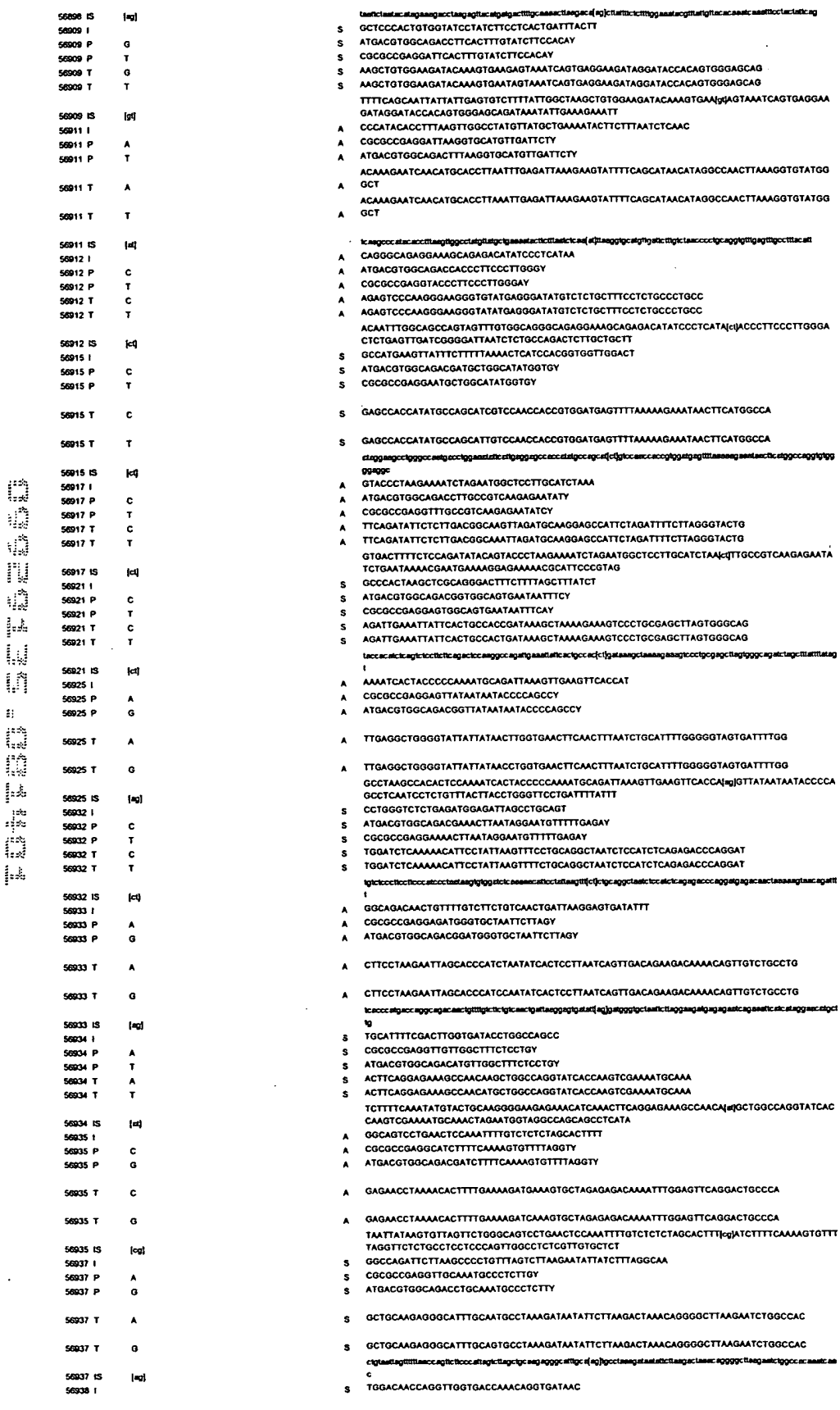
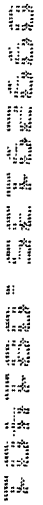


FIGURE 129D

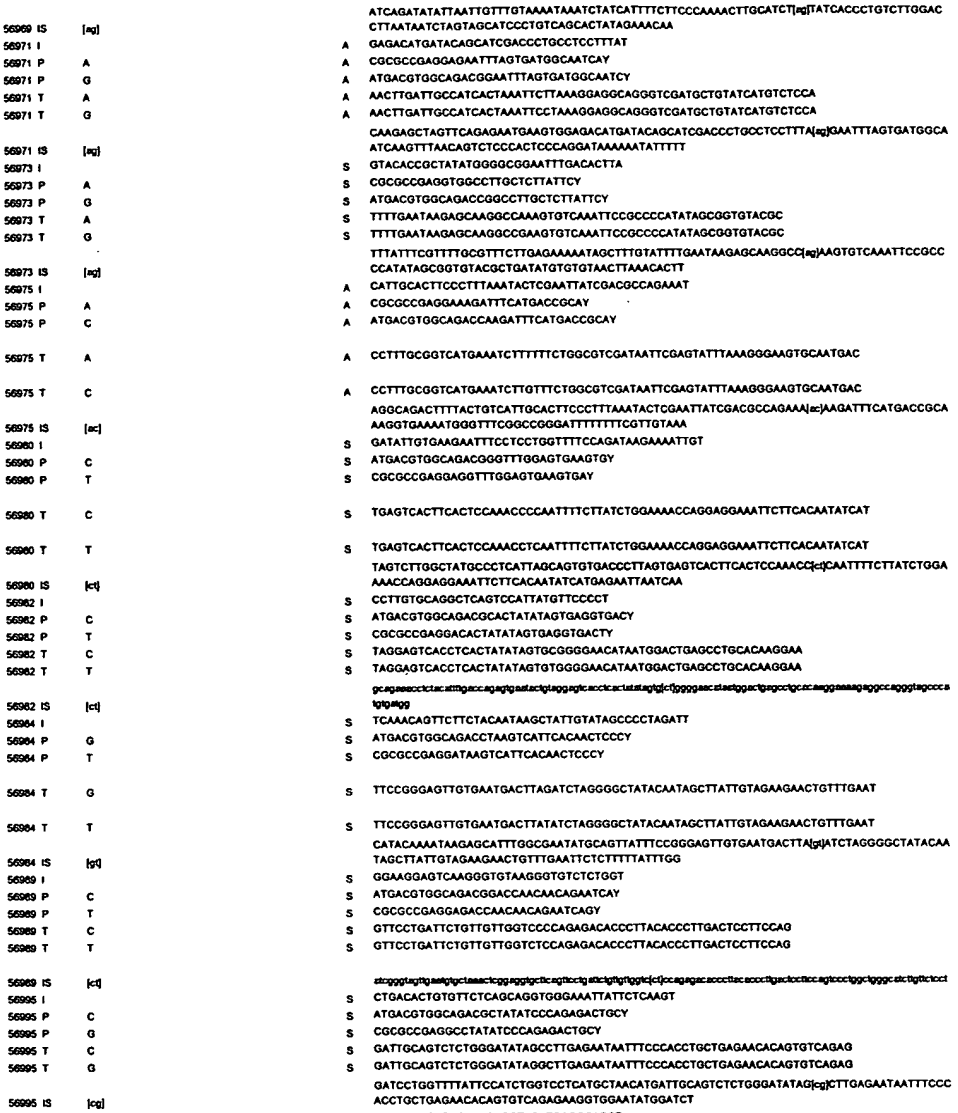

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56952 IS [ct]   AAAGTAATTTAAAAAGAAGGCCTCAACTGTCAACTTTGGGCTTCAAAAAGTGCATTGTCC[ct]TGTATCTTGCCCTAGCT
                TAGTTGCACTGTCTTCTAGGGTGGGTATATGAGAAGGATATAG
56953 I      A  CCAACACTAAGCCCCCAATACAGCACTATCTCTTCAT
56953 P  A   A  CGCGCCGAGGAGAGATCAACCAGCCAAY
56953 P  G   A  ATGACGTGGCAGACGGAGATCAACCAGCCAY
56953 T  A   A  CAGGTTGGCTGGTTGATCTCTTGAAGAGATAGTGCTGTATTGGGGGCTTAGTGTTGGTC
56953 T  G   A  CAGGTTGGCTGGTTGATCTCCTGAAGAGATAGTGCTGTATTGGGGGCTTAGTGTTGGTC
56953 IS [ag]   ATGTCCCAGAAGTAGCAACAGAGACCAACACTAAGCCCCCAATACAGCACTATCTCTTCA[ag]GAGATCAACCAGCCAA
                CCTGGTGGCAAGTTAAATTCATTGGACTTCTTCCATCCTCAAAG
56954 I      S  CGTCTGTCAAAATGGGATCTCTGGCGCTCTT
56954 P  C   S  ATGACGTGGCAGACGAAATAATCCACATGCTTTGTGY
56954 P  T   S  CGCGCCGAGGAAAATAATCCACATGCTTTGTGY
56954 T  C   S  AGTTCACAAAGCATGTGGATTATTTCAGAGCGCCAGAGATCCCATTTTGACAGACGCA
56954 T  T   S  AGTTCACAAAGCATGTGGATTATTTTAGAGCGCCAGAGATCCCATTTTGACAGACGCA
56954 IS [ct]   TATTTATATGACAGAGAGCTGCCTGACTTCATCAAAGTTCACAAAGCATGTGGATTATTT[ct]AGAGCGCCAGAGATCCC
                ATTTTGACAGACGCAATTCTTTGTTCCTAGTATGGTTAGGATC
56956 I      S  CCAACAGAACTTGCTGATGTGGAGGGAGGAGAT
56956 P  C   S  ATGACGTGGCAGACGGGGAATCTAGGAGGACY
56956 P  T   S  CGCGCCGAGGAGGGAATCTAGGAGGACTY
56956 T  C   S  TAGGAGTCCTCCTAGATTCCCCTCTCCTCCCTCCACATCAGCAAGTTCTGTTGGTT
56956 T  T   S  TAGGAGTCCTCCTAGATTCCCTTCTCCTCCCTCCACATCAGCAAGTTCTGTTGGTT
56956 IS [ct]   agagtcacccaccatcccacccacacccctcaagccaaaacctaggagtcctcctagatcccc[ct]ctcctcccctcccacatcagcaagttctgttggttcccactcccagatagagccttt
                ctct
56962 I      A  TGAATTGACATTGACGTCAGCCACTGTGATGGCT
56962 P  A   A  CGCGCCGAGGACAACAGTTAGGTGGGCY
56962 P  C   A  ATGACGTGGCAGACCCAACAGTTAGGTGGGY
56962 T  A   A  ATTAGCCCACCTAACTGTTGTGCCATCACAGTGGCTGACGTCAATGTCAATTCACC
56962 T  C   A  ATTAGCCCACCTAACTGTTGGGCCATCACAGTGGCTGACGTCAATGTCAATTCACC
56962 IS [ac]   GTGTGCCCCAGCTCTGAACAAATAGGGTGAATTGACATTGACGTCAGCCACTGTGATGGC[ac]CAACAGTTAGGTGGG
                CTAATCTGTTTGTGCAAATGACCTTTGCTGCAGACGAAGCCCATG
56963 I      A  GCATCTCAAAGCCGGTGACAGTCTGCACCT
56963 P  A   A  CGCGCCGAGGAGCAGATTTCTTGTGGAGY
56963 P  G   A  ATGACGTGGCAGACGGCAGATTTCTTGTGGAGY
56963 T  A   A  AGAGCTCCACAAGAAATCTGCTGGTGCAGACTGTCACCGGCTTTGAGATGCCT
56963 T  G   A  AGAGCTCCACAAGAAATCTGCCGGTGCAGACTGTCACCGGCTTTGAGATGCCT
56963 IS [ag]   ACTCAGGACACAGTGACATCAGCAGAGCCAGGCATCTCAAAGCCGGTGACAGTCTGCACC[ag]GCAGATTTCTTGTGG
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56964 I      A  CAACCACTCCTGCTGCAAATGACAGTGCTGTATT
56964 P  A   A  CGCGCCGAGGATGCTCTTTGTGGTCTCTY
56964 P  G   A  ATGACGTGGCAGACGTGCTCTTTGTGGTCTCY
56964 T  A   A  TACCAGAGACCACAAAGAGCATATACAGCACTGTCATTTGCAGCAGGAGTGGTTGTA
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56966 P  G   A  ATGACGTGGCAGACGAGCTGGTTACATATGGGY
56966 P  T   A  CGCGCCGAGGTAGCTGGTTACATATGGGTY
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56968 P  C   S  ATGACGTGGCAGACGGAGATGACTTGAGTTTGGY
56968 P  T   S  CGCGCCGAGGAGAGATGACTTGAGTTTGGY
56968 T  C   S  GCCCCCAAACTCAAGTCATCTCCTATGCCTCCCACAGGCAATCCATCCCTGGG
56968 T  T   S  GCCCCCAAACTCAAGTCATCTCTTATGCCTCCCACAGGCAATCCATCCCTGGG
56968 IS [ct]   TACTTCTAGTGGAATGCAACTTAAATTTCAGTCACCTGGCCCCCAAACTCAAGTCATCTC[ct]TATGCCTCCCACAGGCA
                ATCCATCCCTGGGGTAGCTTATCCTGTCTTTGTGCCAAAATTT
56969 I      S  ACAGGGATGCTACTAGATTATTAAGGTCCAAGACAGGGTGATAA
56969 P  A   S  CGCGCCGAGGTAGATGCAAGTTTTGGGAAY
56969 P  G   S  ATGACGTGGCAGACCAGATGCAAGTTTTGGGAY
56969 T  A   S  TTTCTTCCCAAAACTTGCATCTATATCACCCTGTCTTGGACCTTAATAATCTAGTAGCATCCCTGTCA
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FIGURE 129D



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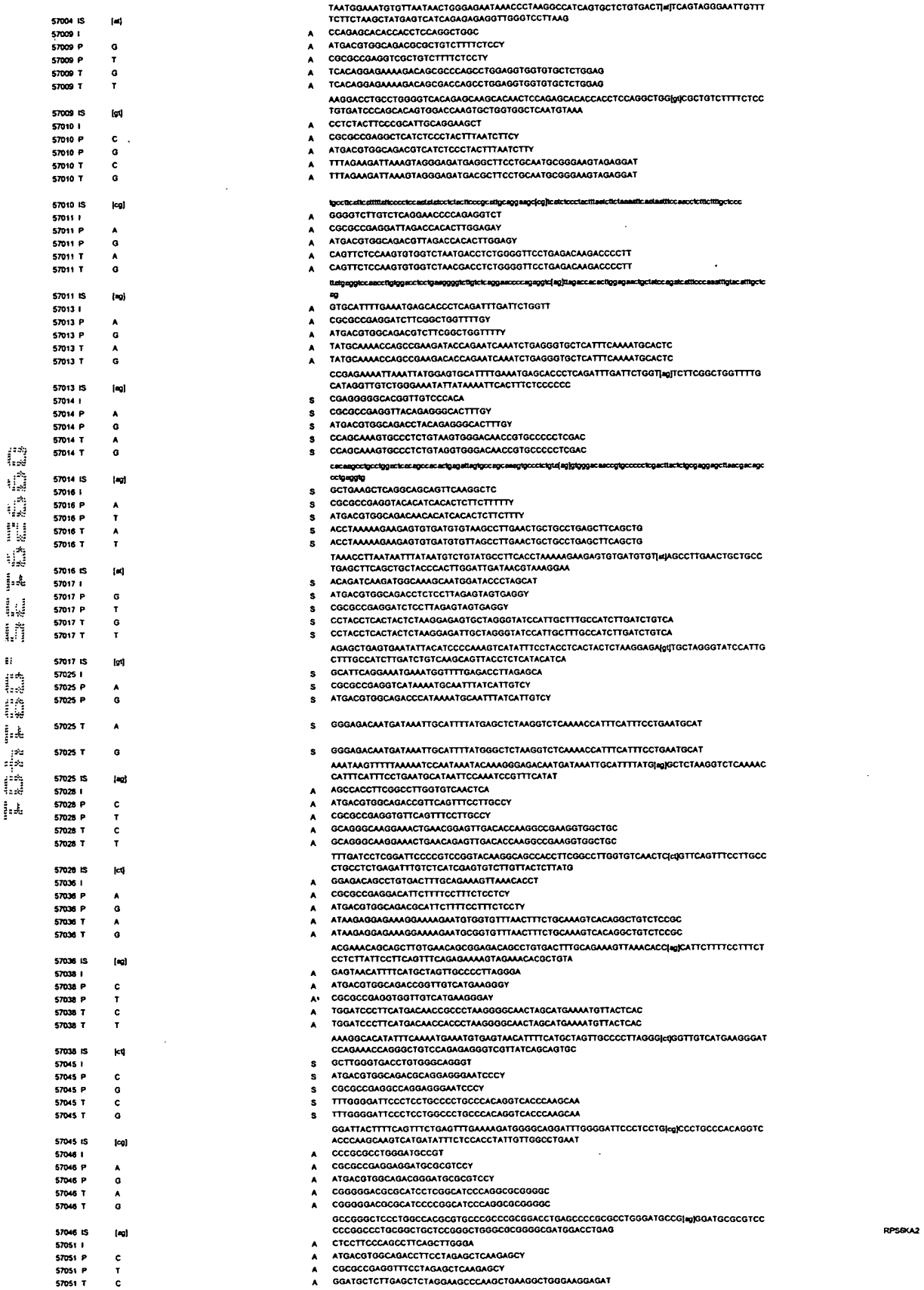

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57009 P T A CGCGCCGAGGTCGCTGTCTTTTCTCCTY
57009 T G A TCACAGGAGAAAAGACAGCGCCCAGCCTGGAGGTGGTGTGCTCTGGAG
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57010 P C A CGCGCCGAGGCTCATCTCCCTACTTTAATCTTCY
57010 P G A ATGACGTGGCAGACGTCATCTCCCTACTTTAATCTTY
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57013 P A A CGCGCCGAGGATCTTCGGCTGGTTTTGY
57013 P G A ATGACGTGGCAGACGTCTTCGGCTGGTTTTY
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57014 I S CGAGGGGGCACGGTTGTCCCACA
57014 P A S CGCGCCGAGGTTACAGAGGGCACTTTGY
57014 P G S ATGACGTGGCAGACCTACAGAGGGCACTTTGY
57014 T A S CCAGCAAAGTGCCCTCTGTAAGTGGGACAACCGTGCCCCCTCGAC
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57017 P G S ATGACGTGGCAGACCTCTCCTTAGAGTAGTGAGGY
57017 P T S CGCGCCGAGGATCTCCTTAGAGTAGTGAGGY
57017 T G S CCTACCTCACTACTCTAAGGAGAGTGCTAGGGTATCCATTGCTTTGCCATCTTGATCTGTCA
57017 T T S CCTACCTCACTACTCTAAGGAGATTGCTAGGGTATCCATTGCTTTGCCATCTTGATCTGTCA
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57028 P C A ATGACGTGGCAGACCGTTCAGTTTCCTTGCCY
57028 P T A CGCGCCGAGGTGTTCAGTTTCCTTGCCY
57028 T C A GCAGGGCAAGGAAACTGAACGGAGTTGACACCAAGGCCGAAGGTGGCTGC
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57028 IS [ct] CTGCCTCTGAGATTTGTCTCATCGAGTGTCTTGTTACTCTTATG
57036 I A GGAGACAGCCTGTGACTTTGCAGAAAGTTAAACACCT
57036 P A A CGCGCCGAGGACATTCTTTTCCTTTCTCCTCY
57036 P G A ATGACGTGGCAGACGCATTCTTTTCCTTTCTCCTY
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57036 T G A ATAAGAGGAGAAAGGAAAAGAATGCGGTGTTTAACTTTCTGCAAAGTCACAGGCTGTCTCCGC
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57038 P C A ATGACGTGGCAGACCGGTTGTCATGAAGGGY
57038 P T A' CGCGCCGAGGTGGTTGTCATGAAGGGAY
57038 T C A TGGATCCCTTCATGACAACCGCCCTAAGGGGCAACTAGCATGAAAATGTTACTCAC
57038 T T A TGGATCCCTTCATGACAACCACCCTAAGGGGCAACTAGCATGAAAATGTTACTCAC
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57045 I S GCTTGGGTGACCTGTGGGCAGGGT
57045 P C S ATGACGTGGCAGACGCAGGAGGGAATCCCY
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57046 P G A ATGACGTGGCAGACGGGATGCGCGTCCY
57046 T A A CGGGGGACGCGCATCCTCGGCATCCCAGGCGCGGGGC
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57046 IS [ag] CCCGGCCCTGCGGCTGCTCCGGGCTGGGCGCGGGGCGATGGACCTGAG RPS6KA2
57051 I A CTCCTTCCCAGCCTTCAGCTTGGGA
57051 P C A ATGACGTGGCAGACCTTCCTAGAGCTCAAGAGCY
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FIGURE 129D

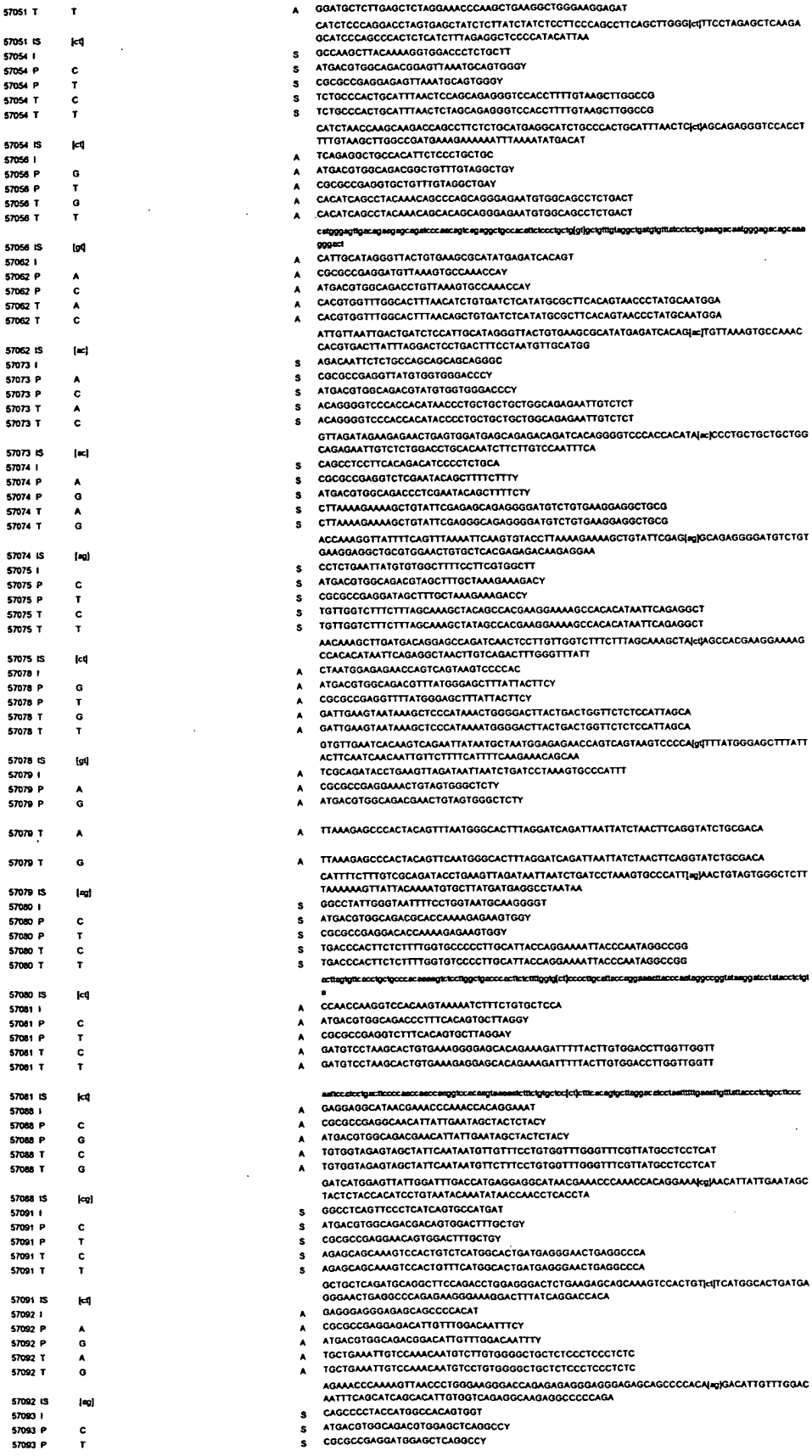


FIGURE 129D

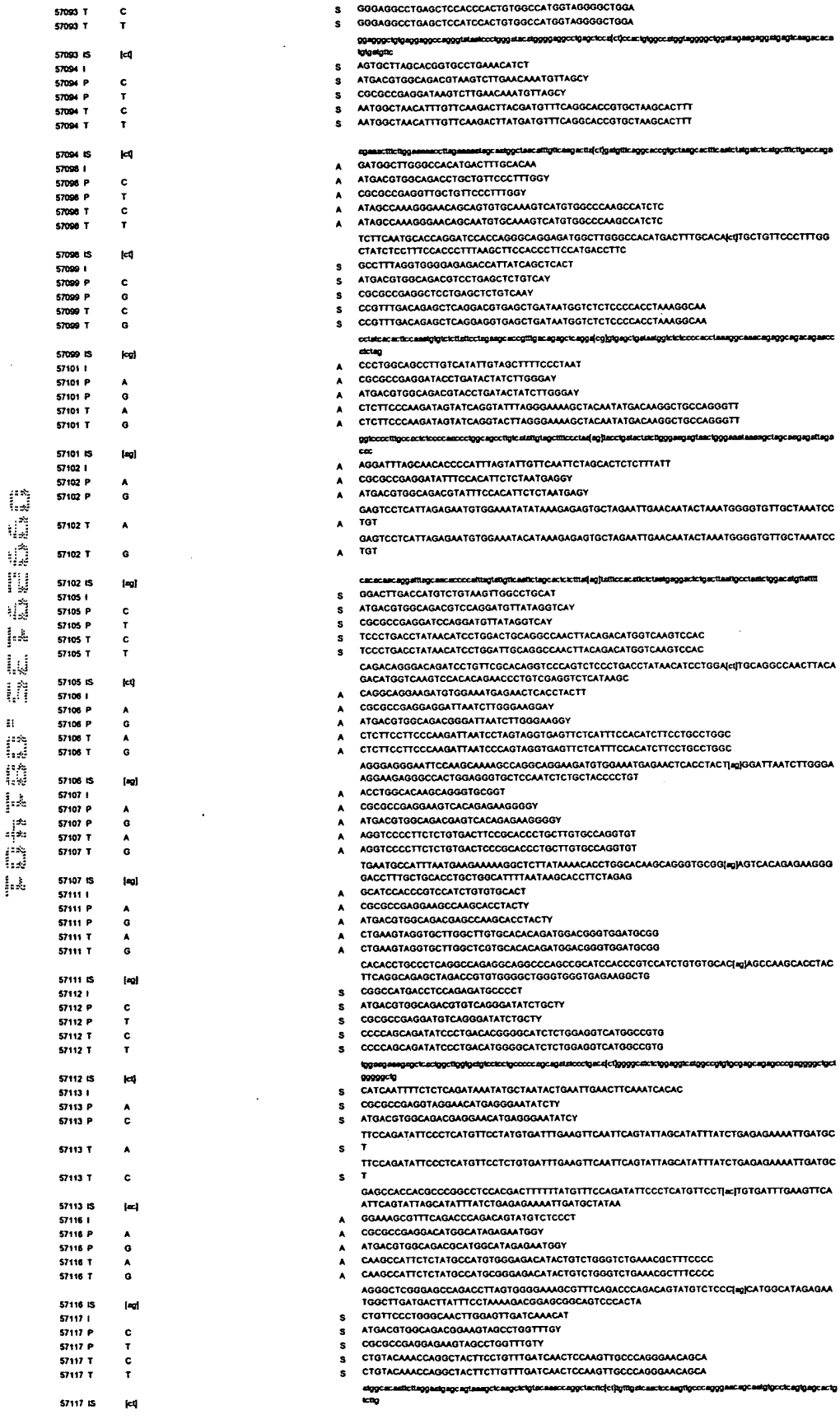


FIGURE 129D

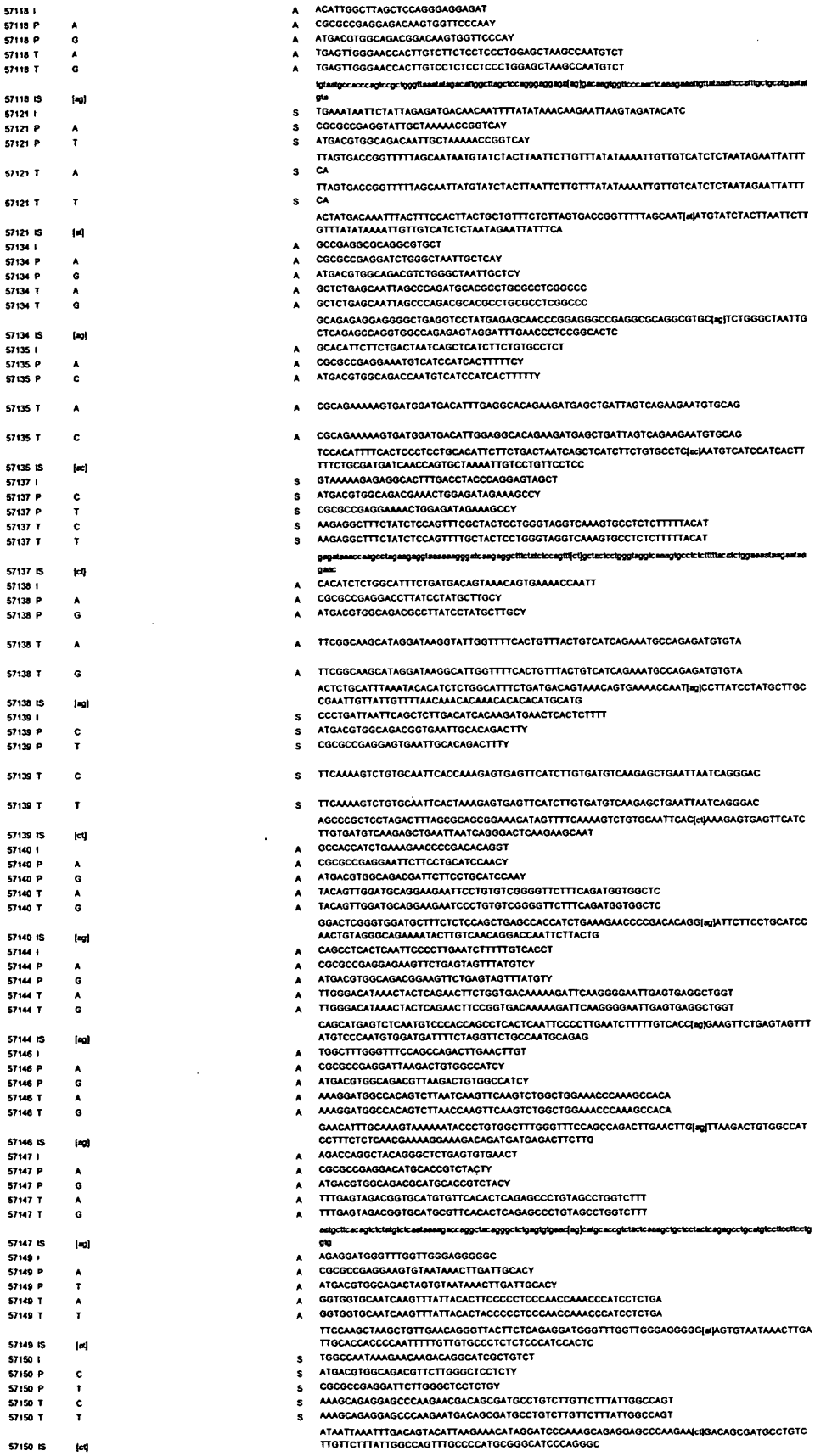

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57118 IS [ag] gtaccc
57121 I S TGAAATAATTCTATTAGAGATGACAACAATTTTATATAAACAAGAATTAAGTAGATACATC
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57121 P T S ATGACGTGGCAGACAATTGCTAAAAACCGGTCAY
57121 T A S CA
57121 T T S CA
57121 IS [at] GTTTATATAAAATTGTTGTCATCTCTAATAGAATTATTTCA
57134 I A GCCGAGGCGCAGGCGTGCT
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57134 T G A GCTCTGAGCAATTAGCCCAGACGCACGCCTGCGCCTCGGCCC
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57135 I A GCACATTCTTCTGACTAATCAGCTCATCTTCTGTGCCTCT
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57135 P C A ATGACGTGGCAGACCAATGTCATCCATCACTTTTTY
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57137 P T S CGCGCCGAGGAAAACTGGAGATAGAAAGCCY
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57138 P G A ATGACGTGGCAGACGCCTTATCCTATGCTTGCY
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57139 P T S CGCGCCGAGGAGTGAATTGCACAGACTTTY
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57139 IS [ct] TTGTGATGTCAAGAGCTGAATTAATCAGGGACTCAAGAAGCAAT
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FIGURE 129D

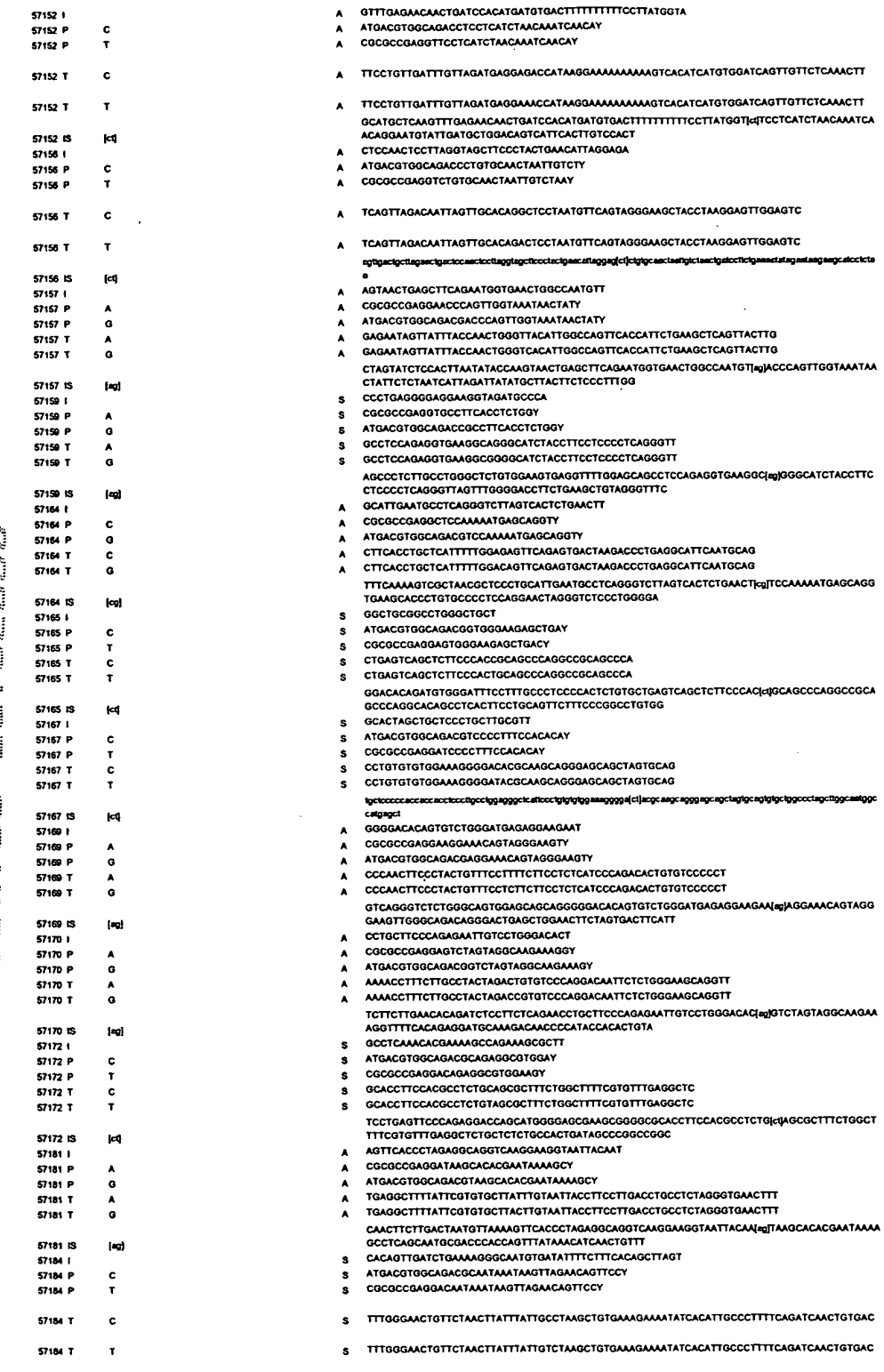
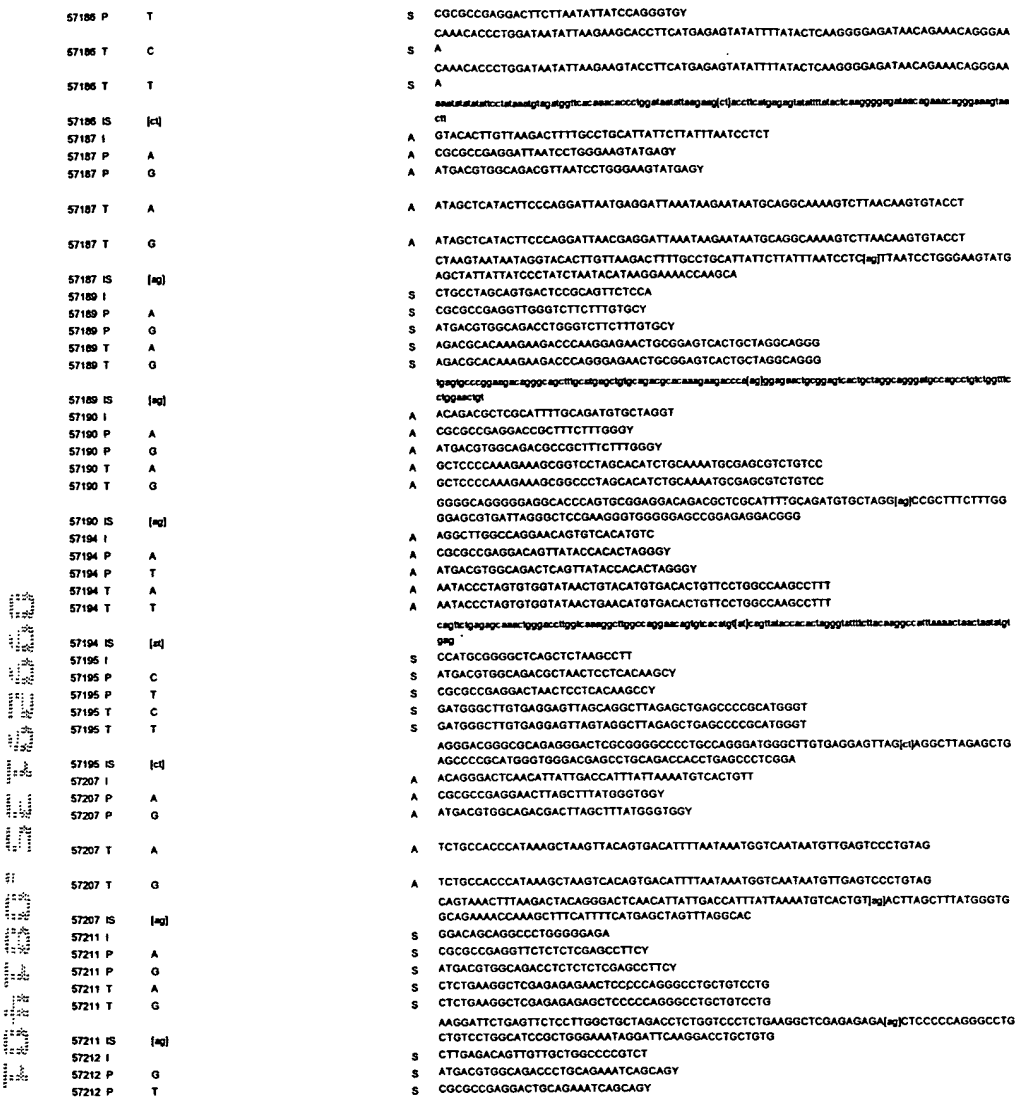

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57157 T A A GAGAATAGTTATTTACCAACTGGGTTACATTGGCCAGTTCACCATTCTGAAGCTCAGTTACTTG
57157 T G A GAGAATAGTTATTTACCAACTGGGTCACATTGGCCAGTTCACCATTCTGAAGCTCAGTTACTTG
57157 IS [ag] CTAGTATCTCCACTTAATATACCAAGTAACTGAGCTTCAGAATGGTGAACTGGCCAATGT[ag]ACCCAGTTGGTAAATAA CTATTCTCTAATCATTAGATTATATGCTTACTTCTCCCTTTGG
57159 I S CCCTGAGGGGAGGAAGGTAGATGCCCA
57159 P A S CGCGCCGAGGTGCCTTCACCTCTGGY
57159 P G S ATGACGTGGCAGACCGCCTTCACCTCTGGY
57159 T A S GCCTCCAGAGGTGAAGGCAGGGCATCTACCTTCCTCCCCTCAGGGTT
57159 T G S GCCTCCAGAGGTGAAGGCGGGGCATCTACCTTCCTCCCCTCAGGGTT
57159 IS [cg] AGCCCTCTTGCCTGGGCTCTGTGGAAGTGAGGTTTTGGAGCAGCCTCCAGAGGTGAAGGC[ag]GGGCATCTACCTTC CTCCCCTCAGGGTTAGTTTGGGGACCTTCTGAAGCTGTAGGGTTTC
57164 I A GCATTGAATGCCTCAGGGTCTTAGTCACTCTGAACTT
57164 P C A CGCGCCGAGGCTCCAAAAATGAGCAGGTY
57164 P G A ATGACGTGGCAGACGTCCAAAAATGAGCAGGTY
57164 T C A CTTCACCTGCTCATTTTTGGAGAGTTCAGAGTGACTAAGACCCTGAGGCATTCAATGCAG
57164 T G A CTTCACCTGCTCATTTTTGGACAGTTCAGAGTGACTAAGACCCTGAGGCATTCAATGCAG
57164 IS [cg] TTTCAAAAGTCGCTAACGCTCCCTGCATTGAATGCCTCAGGGTCTTAGTCACTCTGAACT[cg]TCCAAAAATGAGCAGG TGAAGCACCCTGTGCCCCTCCAGGAACTAGGGTCTCCCTGGGGA
57165 I S GGCTGCGGCCTGGGCTGCT
57165 P C S ATGACGTGGCAGACGGTGGGAAGAGCTGAY
57165 P T S CGCGCCGAGGAGTGGGAAGAGCTGACY
57165 T C S CTGAGTCAGCTCTTCCCACCGCAGCCCAGGCCGCAGCCCA
57165 T T S CTGAGTCAGCTCTTCCCACTGCAGCCCAGGCCGCAGCCCA
57165 IS [ct] GGACACAGATGTGGGATTTCCTTTGCCCTCCCCACTCTGTGCTGAGTCAGCTCTTCCCAC[ct]GCAGCCCAGGCCGCA GCCCAGGCACAGCCTCACTTCCTGCAGTTCTTTCCCGGCCTGTGG
57167 I S GCACTAGCTGCTCCCTGCTTGCGTT
57167 P C S ATGACGTGGCAGACGTCCCCTTTCCACACAY
57167 P T S CGCGCCGAGGATCCCCTTTCCACACAY
57167 T C S CCTGTGTGTGGAAAGGGGACACGCAAGCAGGGAGCAGCTAGTGCAG
57167 T T S CCTGTGTGTGGAAAGGGGATACGCAAGCAGGGAGCAGCTAGTGCAG
57167 IS [ct] tgctccccccaccaccacctcccttgccctggagggctcatttccctgtgtgtggaaaggggg a[ct]acgcaagcagggagcagctagtgcagtgtgctggccctagcttggcaatggcc catgagct
57169 I A GGGGACACAGTGTCTGGGATGAGAGGAAGAAT
57169 P A A CGCGCCGAGGAAGGAAACAGTAGGGAAGTY
57169 P G A ATGACGTGGCAGACGAGGAAACAGTAGGGAAGTY
57169 T A A CCCAACTTCCCTACTGTTTCCTTTTCTTCCTCTCATCCCAGACACTGTGTCCCCCT
57169 T G A CCCAACTTCCCTACTGTTTCCTCTTCTTCCTCTCATCCCAGACACTGTGTCCCCCT
57169 IS [ag] GTCAGGGTCTCTGGGCAGTGGAGCAGCAGGGGGACACAGTGTCTGGGATGAGAGGAAGAA[ag]AGGAAACAGTAGG GAAGTTGGGCAGACAGGGACTGAGCTGGAACTTCTAGTGACTTCATT
57170 I A CCTGCTTCCCAGAGAATTGTCCTGGGACACT
57170 P A A CGCGCCGAGGAGTCTAGTAGGCAAGAAAGGY
57170 P G A ATGACGTGGCAGACGGTCTAGTAGGCAAGAAAGY
57170 T A A AAAACCTTTCTTGCCTACTAGACTGTGTCCCAGGACAATTCTCTGGGAAGCAGGTT
57170 T G A AAAACCTTTCTTGCCTACTAGACCGTGTCCCAGGACAATTCTCTGGGAAGCAGGTT
57170 IS [ag] TCTTCTTGAACACAGATCTCCTTCTCAGAACCTGCTTCCCAGAGAATTGTCCTGGGACAC[ag]GTCTAGTAGGCAAGAA AGGTTTTCACAGAGGATGCAAAGACAACCCCATACCACACTGTA
57172 I S GCCTCAAACACGAAAAGCCAGAAAGCGCTT
57172 P C S ATGACGTGGCAGACGCAGAGGCGTGGAY
57172 P T S CGCGCCGAGGACAGAGGCGTGGAAGY
57172 T C S GCACCTTCCACGCCTCTGCAGCGCTTTCTGGCTTTTCGTGTTTGAGGCTC
57172 T T S GCACCTTCCACGCCTCTGTAGCGCTTTCTGGCTTTTCGTGTTTGAGGCTC
57172 IS [ct] TCCTGAGTTCCCAGAGGACCAGCATGGGGAGCGAAGCGGGGCGCACCTTCCACGCCTCTG[ct]AGCGCTTTCTGGCT TTTCGTGTTTGAGGCTCTGCTCTCTGCCACTGATAGCCCGGCCGGC
57181 I A AGTTCACCCTAGAGGCAGGTCAAGGAAGGTAATTACAAT
57181 P A A CGCGCCGAGGATAAGCACACGAATAAAAGCY
57181 P G A ATGACGTGGCAGACGTAAGCACACGAATAAAAGCY
57181 T A A TGAGGCTTTTATTCGTGTGCTTATTTGTAATTACCTTCCTTGACCTGCCTCTAGGGTGAACTTT
57181 T G A TGAGGCTTTTATTCGTGTGCTTACTTGTAATTACCTTCCTTGACCTGCCTCTAGGGTGAACTTT
57181 IS [ag] CAACTTCTTGACTAATGTTAAAAGTTCACCCTAGAGGCAGGTCAAGGAAGGTAATTACAA[ag]TAAGCACACGAATAAAA GCCTCAGCAATGCGACCCACCAGTTTATAAACATCAACTGTTT
57184 I S CACAGTTGATCTGAAAAGGGCAATGTGATATTTTCTTTCACAGCTTAGT
57184 P C S ATGACGTGGCAGACGCAATAAATAAGTTAGAACAGTTCCY
57184 P T S CGCGCCGAGGACAATAAATAAGTTAGAACAGTTCCY
57184 T C S TTTGGGAACTGTTCTAACTTATTTATTGCCTAAGCTGTGAAAGAAAATATCACATTGCCCTTTTCAGATCAACTGTGAC
57184 T T S TTTGGGAACTGTTCTAACTTATTTATTGTCTAAGCTGTGAAAGAAAATATCACATTGCCCTTTTCAGATCAACTGTGAC
57184 IS [ct] tgacatgtaccaaggacaactgcacctgattgggaactgtctaactattattgt[ct]ctaagctgtgaaagaaaatatcacattgcccttttcagatcaactgtgaccaaccatatg
57185 I S GCAGCAAAGACAATGACAACGTGATTCTTGTCCTGACT
57185 P C S ATGACGTGGCAGACGCAAGTGTTTTGAAGGAAAGY
57185 P T S CGCGCCGAGGACAAGTGTTTTGAAGGAAAGY
57185 T C S GCTCCTTTCCTTCAAAACACTTGCGTCAGGACAAGAATCACGTTGTCATTGTCTTTGCTGCAG
57185 T T S GCTCCTTTCCTTCAAAACACTTGTGTCAGGACAAGAATCACGTTGTCATTGTCTTTGCTGCAG
57185 IS [ct] TTCCTTACTTGGCCAGGTCACAGTTTAAACGTCATCTGCTCCTTTCCTTCAAAACACTTG[ct]GTCAGGACAAGAATCAC GTTGTCATTGTCTTTGCTGCAGGCCACTGCTGTGCTGGGCACG
57186 I S TCCCTGTTTCTGTTATCTCCCCTTGAGTATAAAATATACTCTCATGAAGGTT
57186 P C S ATGACGTGGCAGACGCTTCTTAATATTATCCAGGGTY

FIGURE 129D



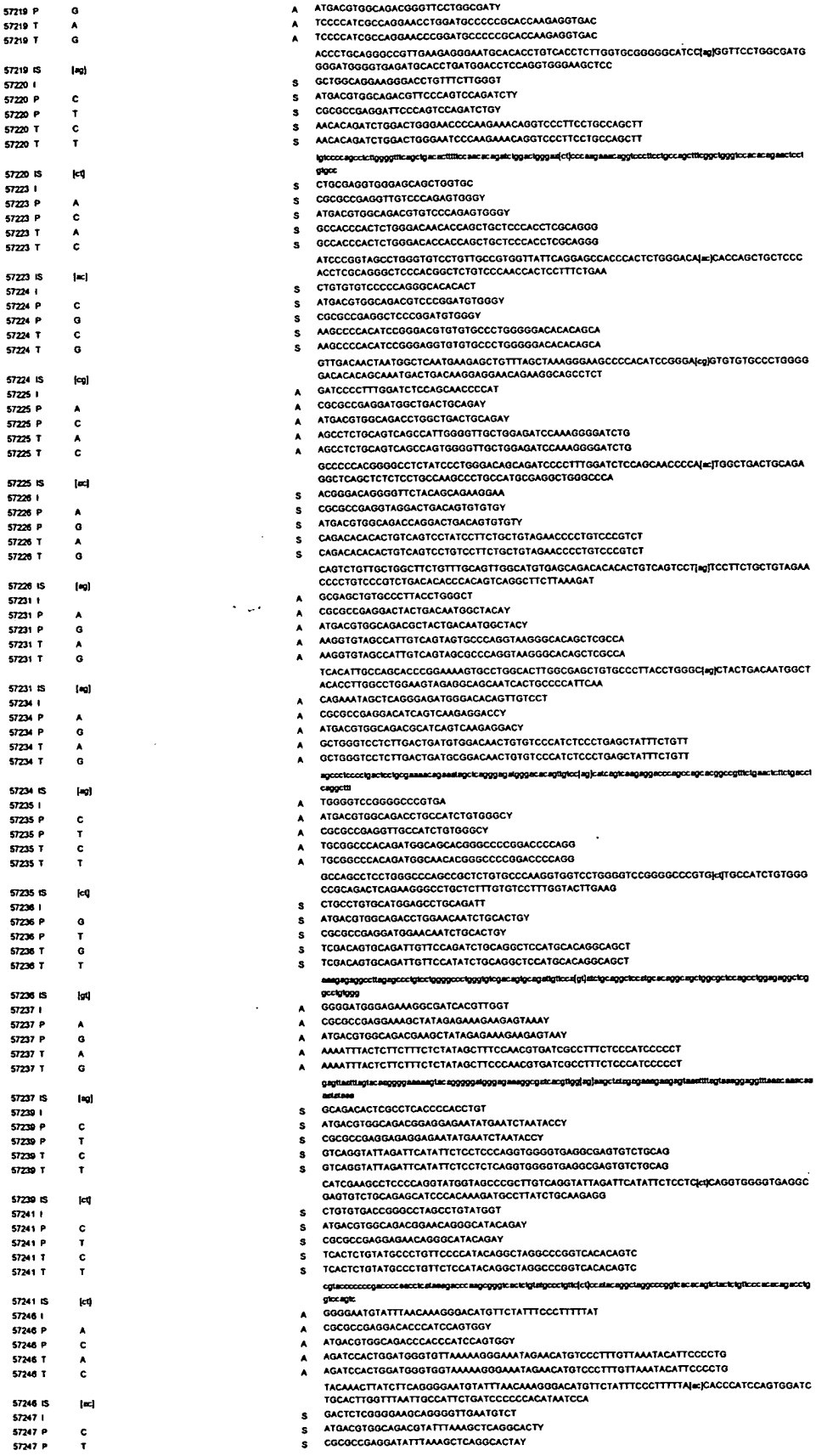


FIGURE 129D

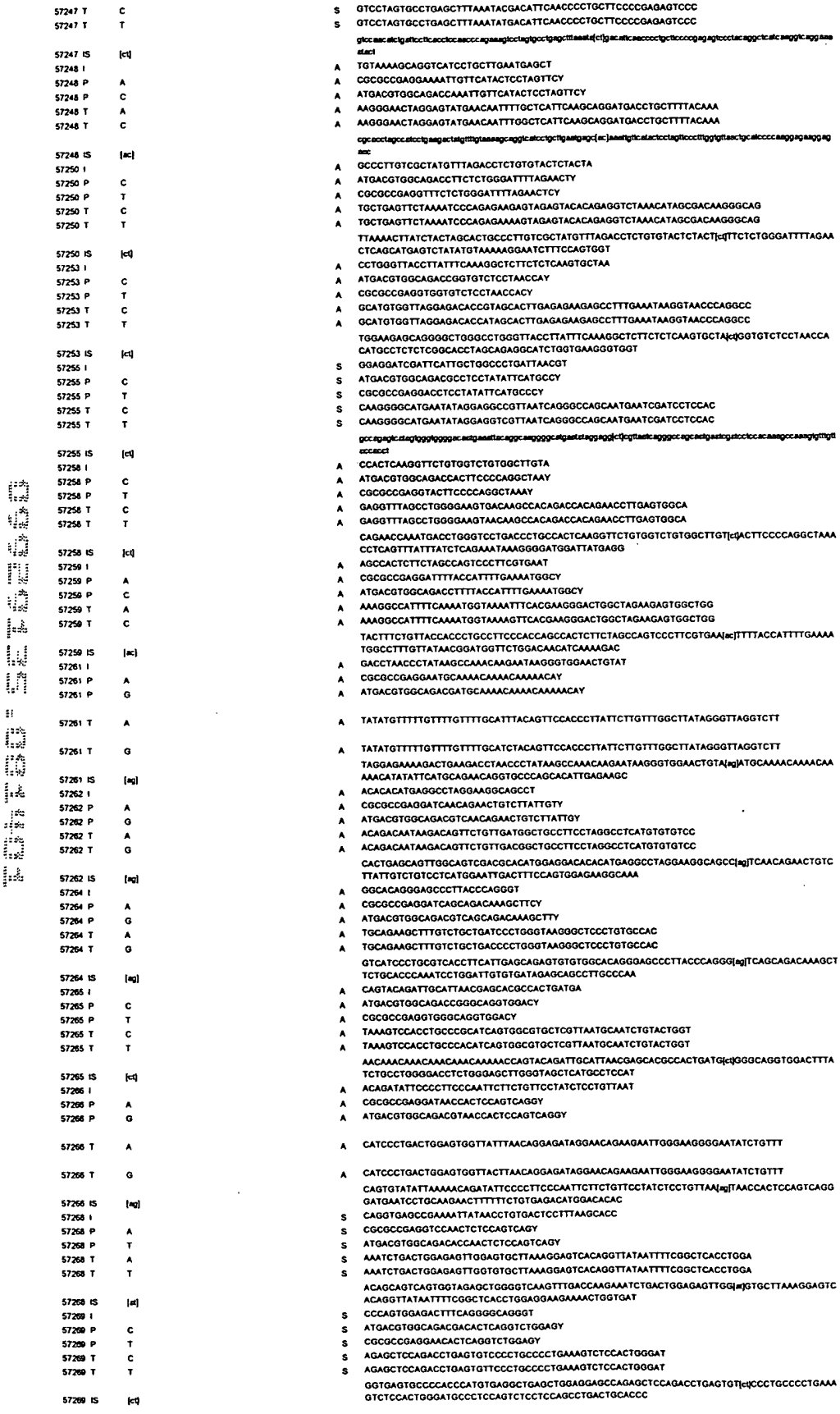


FIGURE 129D

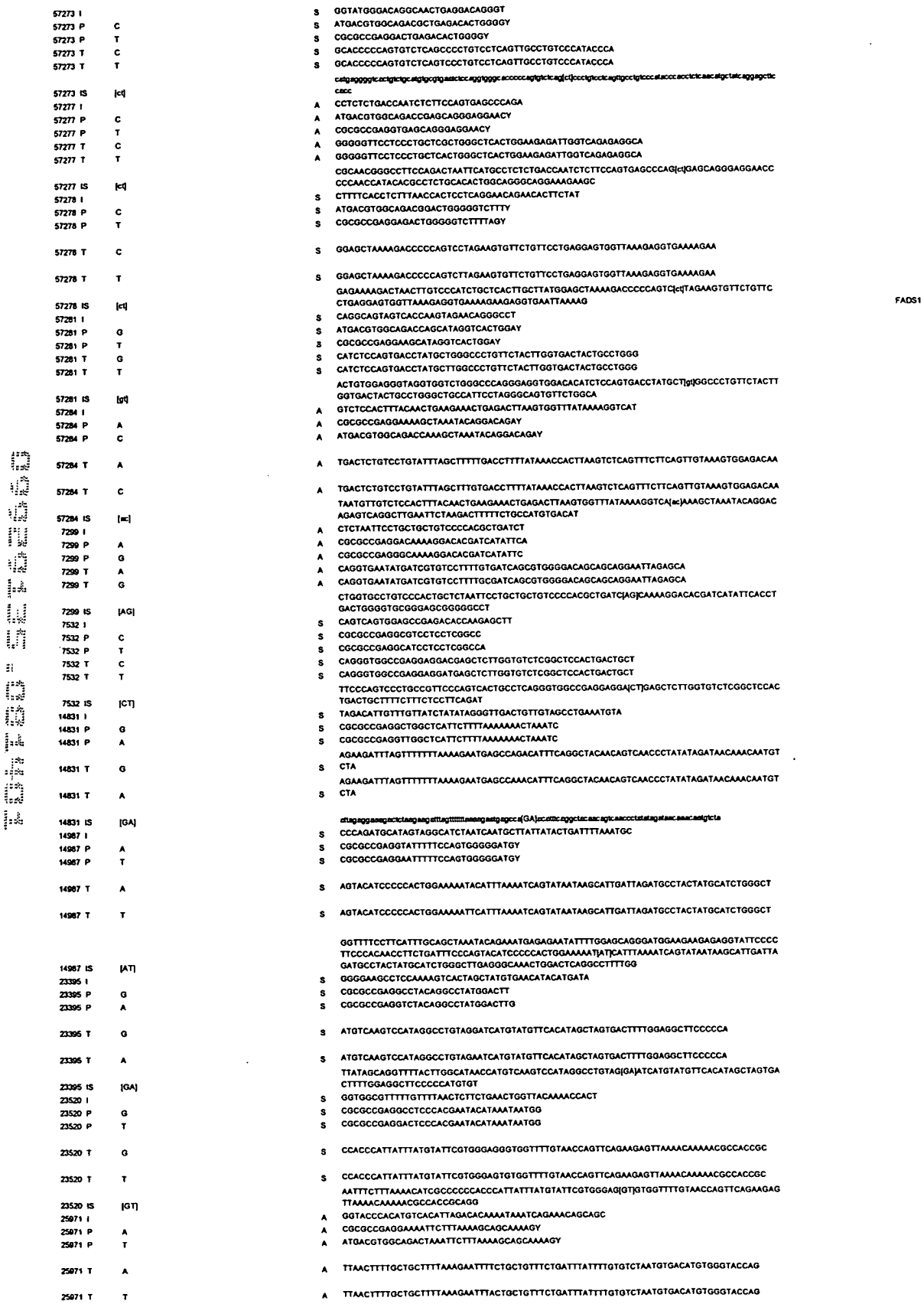


FIGURE 129D

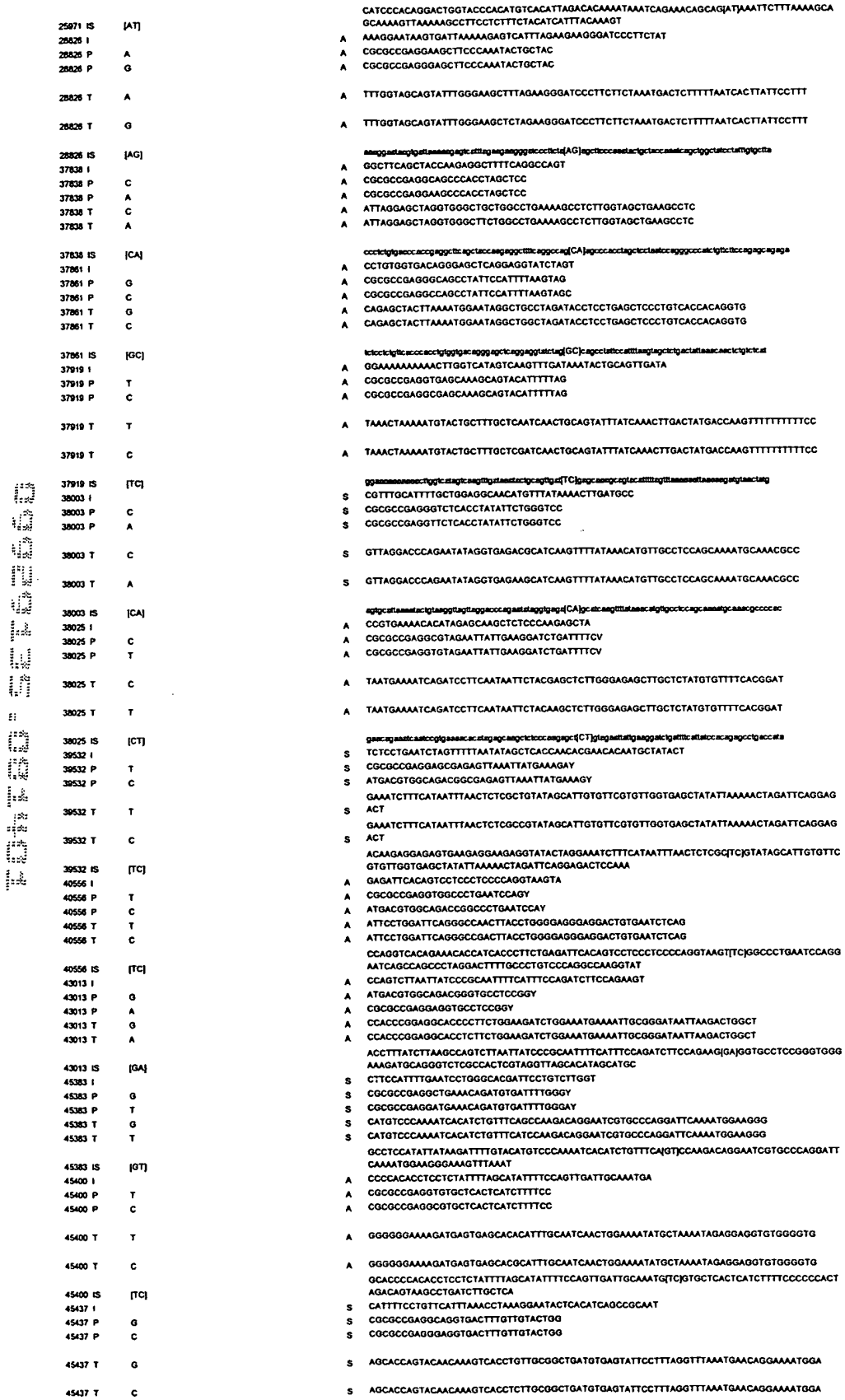
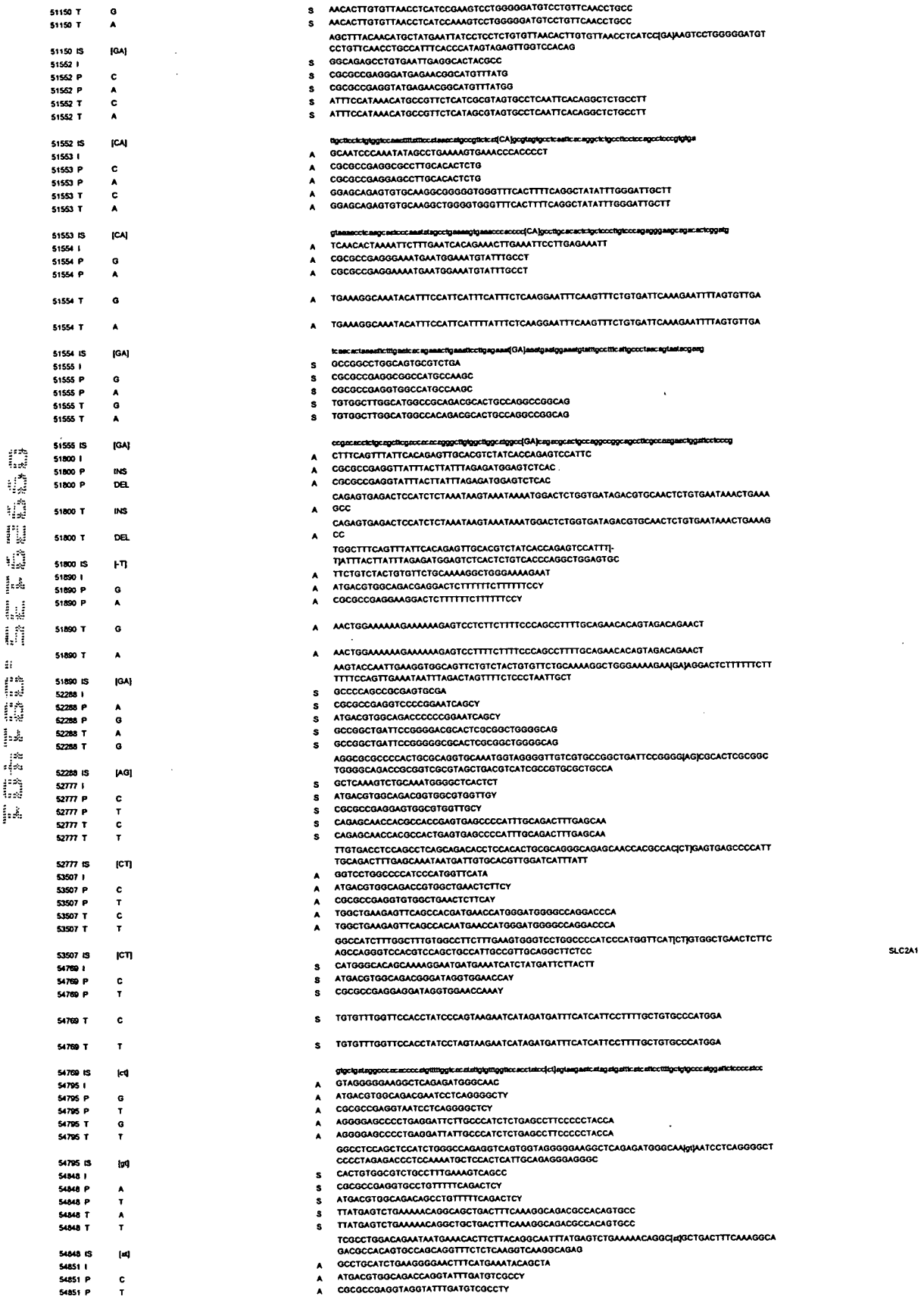


FIGURE 129D


TTGTGACAGCCGTAAGAGGATACAGGAGCACCAGTACAACAAAGTCACCT[GC]TTGCGGCTGATGTGAGTATTCCTTT
45437 IS [GC] AGGTTTAAATGAACAGGAAAATGGA
45455 I A CACTGTGCATTTACATTTTTCAATACACACACGTACGTATGCATATACACT
45455 P G A CGCGCCGAGGGGATATACACGTATCACCACC
45455 P A A CGCGCCGAGGAGATATACACGTATCACCACCA
45455 T G A TGTGTGGTGGTGATACGTGTATATCCGTGTATATGCATACGTACGTGTGTGTATTGAAAAATGTAAATGCACAGTG
45455 T A A TGTGTGGTGGTGATACGTGTATATCTGTGTATATGCATACGTACGTGTGTGTATTGAAAAATGTAAATGCACAGTG
CACTGTGCATTTACATTTTTCAATACACACACGTACGTATGCATATACAC[GA]GATATACACGTATCACCACCACACAGT
45455 IS [GA] AACAACAGAAATTCAATCTTTTC
45498 I S TTATGGGAGGGAAGTATGGTATAATATGTGAAAATACATAATACATAAAAT
45498 P C S CGCGCCGAGGGCTGGTCTAATGGTTAGAAGC
45498 P T S CGCGCCGAGGACTGGTCTAATGGTTAGAAGC
45498 T C S CTTGGCTTCTAACCATTAGACCAGCTTTTATGTATTATGTATTTTCACATATTATACCATACTTCCCTCCCATAA
45498 T T S CTTGGCTTCTAACCATTAGACCAGTTTTTATGTATTATGTATTTTCACATATTATACCATACTTCCCTCCCATAA
CTAAAGGTACAAGAAATGCTACAGGTCTTGGCTTCTAACCATTAGACCAG[CT]TTTTATGTATTATGTATTTTCACATAT
45498 IS [CT] TATACCATACTTCCCTCCCATAA
46176 I S GCAGTACTTTAGGACACACACAAACACACAGAA
46176 P A S CGCGCCGAGGTACACCTTTTGATATGTAAGCTY
46176 P G S ATGACGTGGCAGACCACACCTTTTGATATGTAAGCY
46176 T A S GTCAAGCTTACATATCAAAAGGTGTATCTGTGTGTTTGTGTGTGTCCTAAAGTACTGCCA
46176 T G S GTCAAGCTTACATATCAAAAGGTGTGTCTGTGTGTTTGTGTGTGTCCTAAAGTACTGCCA
CAATCTGAAATGCTACACAGGTCCTTTGACTTTAGGTCAAGCTTACATATCAAAAGGTGT[AG]TCTGTGTGTTTGTGTG
46176 IS [AG] TGTCCTAAAGTACTGCCATTTATCTGAATGGGTTTACAAATTCA
46182 I S GTTTGGGTGCATCCCCACAAGCCCCAT
46182 P T S CGCGCCGAGGAACACTGGTAATGGCCY
46182 P C S ATGACGTGGCAGACGACACTGGTAATGGCCY
46182 T T S CCGGGGCCATTACCAGTGTTTGGGGCTTGTGGGATGCACCCAAACTT
46182 T C S CCGGGGCCATTACCAGTGTCTGGGGCTTGTGGGATGCACCCAAACTT
GCCCTGGATGGCATCATCTCCCTGGGACCACCTGCACAGCACCGGGGGCCATTACCAGTGT[TC]TGGGGCTTGTGGG
46182 IS [TC] ATGCACCCAAACTTCTACACAACAATTAATACACTTTTACTGCATAC
47358 I A ACATTTTAATGAAAGGGTGACTTGAGTAAGGCACTACTTTC
47358 P T A CGCGCCGAGGTTCAATAAATAGCAACAGAACCY
47358 P G A ATGACGTGGCAGACGTCAATAAATAGCAACAGAACCY
47358 T T A AATTGGTTCTGTTGCTATTTATTGAAAAAGTAGTGCCTTACTCAAGTCACCCTTTCATTAAAATGTTA
47358 T G A AATTGGTTCTGTTGCTATTTATTGACAAAGTAGTGCCTTACTCAAGTCACCCTTTCATTAAAATGTTA
GTTTTGGTTTTACATATTTAACATTTTAATGAAAGGGTGACTTGAGTAAGGCACTACTTT[TG]TCAATAAATAGCAACAG
47358 IS [TG] AACCAATTTGCCTGGGAGGAGACCTGCCAGCAAGCCATGAGGG
48087 I A GCCATCTCCTTCTTTGCGCTCCCAGCT
48087 P A A CGCGCCGAGGAGTAGGTGCCCCGT
48087 P C A ATGACGTGGCAGACCGTAGGTGCCCCG
48087 T A A ACCCACGGGGCACCTACTGCTGGGAGCGCAAAGAAGGAGATGGCAA
48087 T C A ACCCACGGGGCACCTACGGCTGGGAGCGCAAAGAAGGAGATGGCAA
CGGGAAGACCATCGCCTCCTGCTTCTCTGTCTTTGCCATCTCCTTCTTTGCGCTCCCAGC[AC]GTAGGTGCCCCGTG
48087 IS [AC] GGTGCGTTTTCCCTGGCTCCTTGGACAGCTGGGGTCCTGGGGTGGC
48089 I A GCCATCTCCTTCTTTGCGCTCCCAGCC
48089 P A A CGCGCCGAGGAGTAGGTGCCCCGT
48089 P T A ATGACGTGGCAGACTGTAGGTGCCCCG
48089 T A A ACCCACGGGGCACCTACTGCTGGGAGCGCAAAGAAGGAGATGGCAA
48089 T T A ACCCACGGGGCACCTACAGCTGGGAGCGCAAAGAAGGAGATGGCAA
CGGGAAGACCATCGCCTCCTGCTTCTCTGTCTTTGCCATCTCCTTCTTTGCGCTCCCAGC[AT]GTAGGTGCCCCGTG
48089 IS [AT] GGTGCGTTTTCCCTGGCTCCTTGGACAGCTGGGGTCCTGGGGTGGC
48102 I S CTCTTCAAACTGTCCCACCTTAAACATCAAACCAGTAAGCCTA
48102 P A S CGCGCCGAGGTAGAGAGAAAAAAGGAAATGGCT
48102 P G S CGCGCCGAGGCAGAGAGAAAAAAGGAAATGGC
48102 T A S AATCAGCCATTTCCTTTTTTCTCTCTAAGGCTTACTGGTTTGATGTTTAAGGTGGGACAGTTTGAAGAGGC
48102 T G S AATCAGCCATTTCCTTTTTTCTCTCTGAGGCTTACTGGTTTGATGTTTAAGGTGGGACAGTTTGAAGAGGC
[AG] FLJ23059
48102 IS [AG]
48121 I S CCTGCAGTGCATTCCTGTAAAAGTAGTGTGGAGATCCTA
48121 P A S CGCGCCGAGGTCTACTGCCACTGTGATTTAC
48121 P G S CGCGCCGAGGCCTACTGCCACTGTGATTTAC
48121 T A S TAACGTAAATCACAGTGGCAGTAGAAGGATCTCCACACTACTTTTACAGGAATGCACTGCAGGTA
48121 T G S TAACGTAAATCACAGTGGCAGTAGGAGGATCTCCACACTACTTTTACAGGAATGCACTGCAGGTA
48121 IS [AG]
48125 I S AGCAGATGGGAAACAACTGATTTCCCAGGACAGTGAAAA
48125 P G S CGCGCCGAGGCTTAAGTTCCATGGTGAAGAAACA
48125 P A S CGCGCCGAGGTTTAAGTTCCATGGTGAAGAAACA
48125 T G S TCATTGTTTCTTCACCATGGAACTTAAGTTTCACTGTCCTGGGAAATCAGTTGTTTCCCATCTGCTTT
48125 T A S TCATTGTTTCTTCACCATGGAACTTAAATTTCACTGTCCTGGGAAATCAGTTGTTTCCCATCTGCTTT
48125 IS [GA]
49375 I A GCTACCCTGCAACGGAAGGAAAAGTTGACGTAA
49375 P T A CGCGCCGAGGTGAACCGAAATTACTGGGY
49375 P C A ATGACGTGGCAGACCGAACCGAAATTACTGGGY
49375 T T A GCTTCCCAGTAATTTCGGTTCATACGTCAACTTTTCCTTCCGTTGCAGGGTAGCGG
49375 T C A GCTTCCCAGTAATTTCGGTTCGTACGTCAACTTTTCCTTCCGTTGCAGGGTAGCGG
GATTGTCTTTCTGGTGGATTTCTTCGCCGCTACCCTGCAACGGAAGGAAAAGTTGACGTA[TC]GAACCGAAATTACTG
49375 IS [TC] GGAAGCAAAGCCTGCCGCTATATGGTGTTAACAGAAGAAACAAAA
50821 I S TCATCAGCCATCAGCTCCCTTAAGGTGACCTGA
50821 P A S CGCGCCGAGGTAGCCTCCTTTGTGCCY
50821 P G S ATGACGTGGCAGACCAGCCTCCTTTGTGCY
50821 T A S CCAGGGCACAAAGGAGGCTACAGGTCACCTTAAGGGAGCTGATGGCTGATGAGA
50821 T G S CCAGGGCACAAAGGAGGCTGCAGGTCACCTTAAGGGAGCTGATGGCTGATGAGA
GATGCTTCTGAGAGAGAGCCTCTACACAATCCCAAATGCCCCCAGGGCACAAAGGAGGCT[AG]CAGGTCACCTTAAG
50821 IS [AG] GGAGCTGATGGCTGATGAGATGTCTTCAGGCTGTGCATCTCAGATC
51150 I S CAGGTTGAACAGGACATCCCCCAGGACTTA
51150 P G S ATGACGTGGCAGACCGGATGAGGTTAACACAAGY
51150 P A S CGCGCCGAGGTGGATGAGGTTAACACAAGY

FIGURE 129D


51150 T G S AACACTTGTGTTAACCTCATCCGAAGTCCTGGGGGATGTCCTGTTCAACCTGCC
51150 T A S AACACTTGTGTTAACCTCATCCAAAGTCCTGGGGGATGTCCTGTTCAACCTGCC
51150 IS [GA] AGCTTTACAACATGCTATGAATTATCCTCCTCTGTGTTAACACTTGTGTTAACCTCATCC[GA]AAGTCCTGGGGGATGT CCTGTTCAACCTGCCATTTCACCCATAGTAGAGTTGGTCCACAG
51552 I S GGCAGAGCCTGTGAATTGAGGCACTACGCC
51552 P C S CGCGCCGAGGGATGAGAACGGCATGTTTATG
51552 P A S CGCGCCGAGGTATGAGAACGGCATGTTTATGG
51552 T C S ATTTCCATAAACATGCCGTTCTCATCGCGTAGTGCCTCAATTCACAGGCTCTGCCTT
51552 T A S ATTTCCATAAACATGCCGTTCTCATAGCGTAGTGCCTCAATTCACAGGCTCTGCCTT
51552 IS [CA]
51553 I A GCAATCCCAAATATAGCCTGAAAAGTGAAACCCACCCCT
51553 P C A CGCGCCGAGGCGCCTTGCACACTCTG
51553 P A A CGCGCCGAGGAGCCTTGCACACTCTG
51553 T C A GGAGCAGAGTGTGCAAGGCGGGGGTGGGTTTCACTTTTCAGGCTATATTTGGGATTGCTT
51553 T A A GGAGCAGAGTGTGCAAGGCTGGGGTGGGTTTCACTTTTCAGGCTATATTTGGGATTGCTT
51553 IS [CA]
51554 I A TCAACACTAAAATTCTTTGAATCACAGAAACTTGAAATTCCTTGAGAAATT
51554 P G A CGCGCCGAGGGAAATGAATGGAAATGTATTTGCCT
51554 P A A CGCGCCGAGGAAAATGAATGGAAATGTATTTGCCT
51554 T G A TGAAAGGCAAATACATTTCCATTCATTTCATTTCTCAAGGAATTTCAAGTTTCTGTGATTCAAAGAATTTTAGTGTTGA
51554 T A A TGAAAGGCAAATACATTTCCATTCATTTTATTTCTCAAGGAATTTCAAGTTTCTGTGATTCAAAGAATTTTAGTGTTGA
51554 IS [GA]
51555 I S GCCGGCCTGGCAGTGCGTCTGA
51555 P G S CGCGCCGAGGCGGCCATGCCAAGC
51555 P A S CGCGCCGAGGTGGCCATGCCAAGC
51555 T G S TGTGGCTTGGCATGGCCGCAGACGCACTGCCAGGCCGGCAG
51555 T A S TGTGGCTTGGCATGGCCACAGACGCACTGCCAGGCCGGCAG
51555 IS [GA]
51800 I A CTTTCAGTTTATTCACAGAGTTGCACGTCTATCACCAGAGTCCATTC
51800 P INS A CGCGCCGAGGTTATTTACTTATTTAGAGATGGAGTCTCAC
51800 P DEL A CGCGCCGAGGTATTTACTTATTTAGAGATGGAGTCTCAC
51800 T INS A CAGAGTGAGACTCCATCTCTAAATAAGTAAATAAAATGGACTCTGGTGATAGACGTGCAACTCTGTGAATAAACTGAAA GCC
51800 T DEL A CAGAGTGAGACTCCATCTCTAAATAAGTAAATAAATGGACTCTGGTGATAGACGTGCAACTCTGTGAATAAACTGAAAG CC
51800 IS [-T] TGGCTTTCAGTTTATTCACAGAGTTGCACGTCTATCACCAGAGTCCATTT]- T]ATTTACTTATTTAGAGATGGAGTCTCACTCTGTCACCCAGGCTGGAGTGC
51890 I A TTCTGTCTACTGTGTTCTGCAAAAGGCTGGGAAAAGAAT
51890 P G A ATGACGTGGCAGACGAGGACTCTTTTTTCTTTTTTCCY
51890 P A A CGCGCCGAGGAAGGACTCTTTTTTCTTTTTTCCY
51890 T G A AACTGGAAAAAAGAAAAAAGAGTCCTCTTCTTTTCCCAGCCTTTTGCAGAACACAGTAGACAGAACT
51890 T A A AACTGGAAAAAAGAAAAAAGAGTCCTTTTCTTTTCCCAGCCTTTTGCAGAACACAGTAGACAGAACT
51890 IS [GA] AAGTACCAATTGAAGGTGGCAGTTCTGTCTACTGTGTTCTGCAAAAGGCTGGGAAAAGAA[GA]AGGACTCTTTTTTCTT TTTTCCAGTTGAAATAATTTAGACTAGTTTTCTCCCTAATTGCT
52288 I S GCCCCAGCCGCGAGTGCGA
52288 P A S CGCGCCGAGGTCCCCGGAATCAGCY
52288 P G S ATGACGTGGCAGACCCCCCGGAATCAGCY
52288 T A S GCCGGCTGATTCCGGGGACGCACTCGCGGCTGGGGCAG
52288 T G S GCCGGCTGATTCCGGGGGCGCACTCGCGGCTGGGGCAG
52288 IS [AG] AGGCGCGCCCCACTGCGCAGGTGCAAATGGTAGGGGTTGTCGTGCCGGCTGATTCCGGGG[AG]CGCACTCGCGGC TGGGGCAGACCGCGGTCGCGTAGCTGACGTCATCGCCGTGCGCTGCCA
52777 I S GCTCAAAGTCTGCAAATGGGGCTCACTCT
52777 P C S ATGACGTGGCAGACGGTGGCGTGGTTGY
52777 P T S CGCGCCGAGGAGTGGCGTGGTTGCY
52777 T C S CAGAGCAACCACGCCACCGAGTGAGCCCCATTTGCAGACTTTGAGCAA
52777 T T S CAGAGCAACCACGCCACTGAGTGAGCCCCATTTGCAGACTTTGAGCAA
52777 IS [CT] TTGTGACCTCCAGCCTCAGCAGACACCTCCACACTGCGCAGGGCAGAGCAACCACGCCAC[CT]GAGTGAGCCCCATT TGCAGACTTTGAGCAAATAATGATTGTGCACGTTGGATCATTTATT
53507 I A GGTCCTGGCCCCATCCCATGGTTCATA
53507 P C A ATGACGTGGCAGACCGTGGCTGAACTCTTCY
53507 P T A CGCGCCGAGGTGTGGCTGAACTCTTCAY
53507 T C A TGGCTGAAGAGTTCAGCCACGATGAACCATGGGATGGGGCCAGGACCCA
53507 T T A TGGCTGAAGAGTTCAGCCACAATGAACCATGGGATGGGGCCAGGACCCA
53507 IS [CT] GGCCATCTTTGGCTTTGTGGCCTTCTTTGAAGTGGGTCCTGGCCCCATCCCATGGTTCAT[CT]GTGGCTGAACTCTTC AGCCAGGGTCCACGTCCAGCTGCCATTGCCGTTGCAGGCTTCTCC
54769 I S CATGGGCACAGCAAAAGGAATGATGAAATCATCTATGATTCTTACTT
54769 P C S ATGACGTGGCAGACGGGATAGGTGGAACCAY
54769 P T S CGCGCCGAGGAGGATAGGTGGAACCAAAY
54769 T C S TGTGTTTGGTTCCACCTATCCCAGTAAGAATCATAGATGATTTCATCATTCCTTTTGCTGTGCCCATGGA
54769 T T S TGTGTTTGGTTCCACCTATCCTAGTAAGAATCATAGATGATTTCATCATTCCTTTTGCTGTGCCCATGGA
54769 IS [ct]
54795 I A GTAGGGGGAAGGCTCAGAGATGGGCAAC
54795 P G A ATGACGTGGCAGACGAATCCTCAGGGGCTY
54795 P T A CGCGCCGAGGTAATCCTCAGGGGCTCY
54795 T G A AGGGGAGCCCCTGAGGATTCTTGCCCATCTCTGAGCCTTCCCCCTACCA
54795 T T A AGGGGAGCCCCTGAGGATTATTGCCCATCTCTGAGCCTTCCCCCTACCA
54795 IS [gt] GGCCTCCAGCTCCATCTGGGCCAGAGGTCAGTGGTAGGGGGAAGGCTCAGAGATGGGCAA[gt]AATCCTCAGGGGCT CCCCTAGAGACCCTCCAAAATGCTCCACTCATTGCAGAGGGAGGGC
54848 I S CACTGTGGCGTCTGCCTTTGAAAGTCAGCC
54848 P A S CGCGCCGAGGTGCCTGTTTTTCAGACTCY
54848 P T S ATGACGTGGCAGACAGCCTGTTTTTCAGACTCY
54848 T A S TTATGAGTCTGAAAAACAGGCAGCTGACTTTCAAAGGCAGACGCCACAGTGCC
54848 T T S TTATGAGTCTGAAAAACAGGCTGCTGACTTTCAAAGGCAGACGCCACAGTGCC
54848 IS [at] TCGCCTGGACAGAATAATGAAACACTTCTTACAGGCAATTTATGAGTCTGAAAAACAGGC[at]GCTGACTTTCAAAGGCA GACGCCACAGTGCCAGCAGGTTTCTCTCAAGGTCAAGGCAGAG
54851 I A GCCTGCATCTGAAGGGGAACTTTCATGAAATACAGCTA
54851 P C A ATGACGTGGCAGACCAGGTATTTGATGTCGCCY
54851 P T A CGCGCCGAGGTAGGTATTTGATGTCGCCTY
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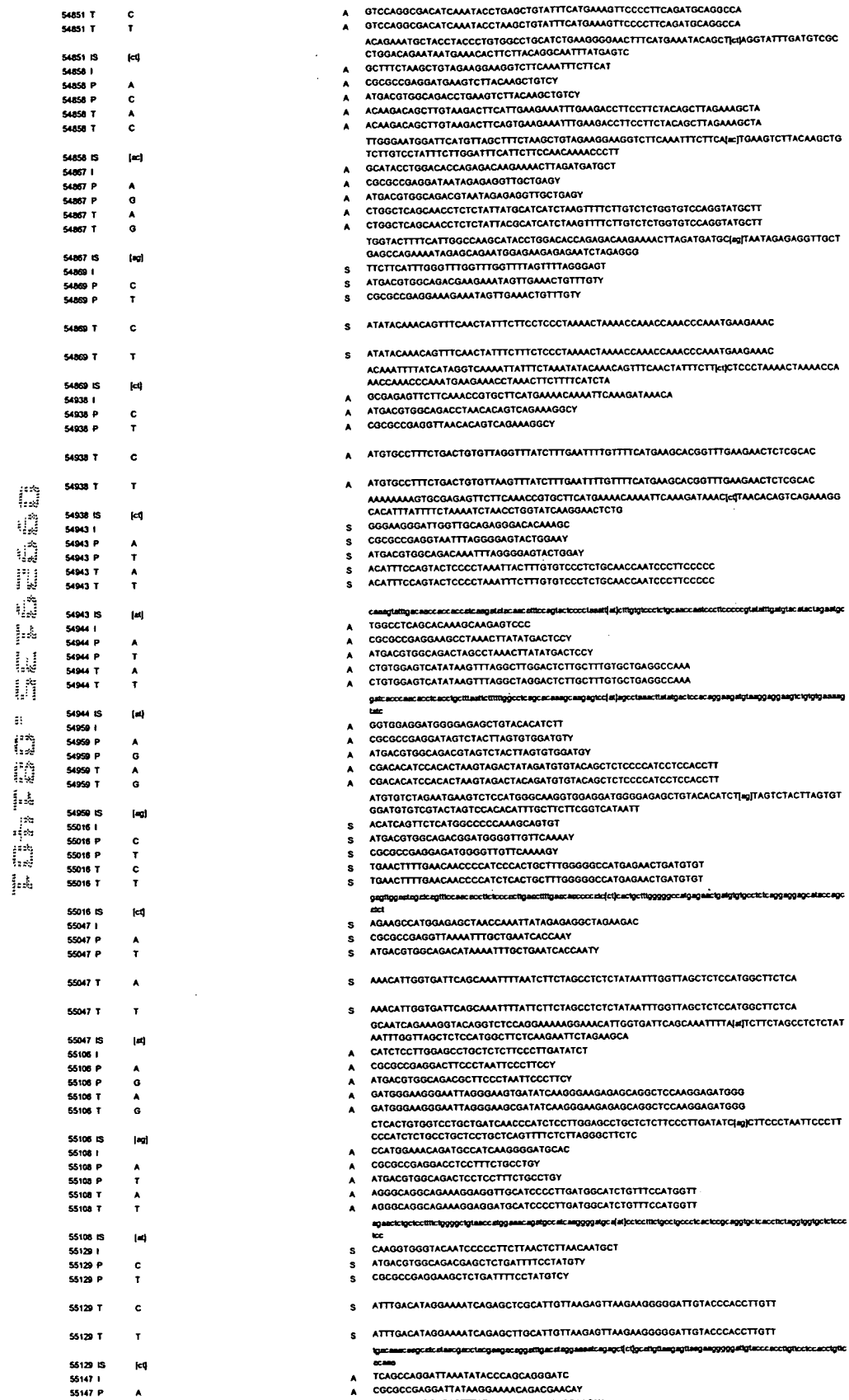
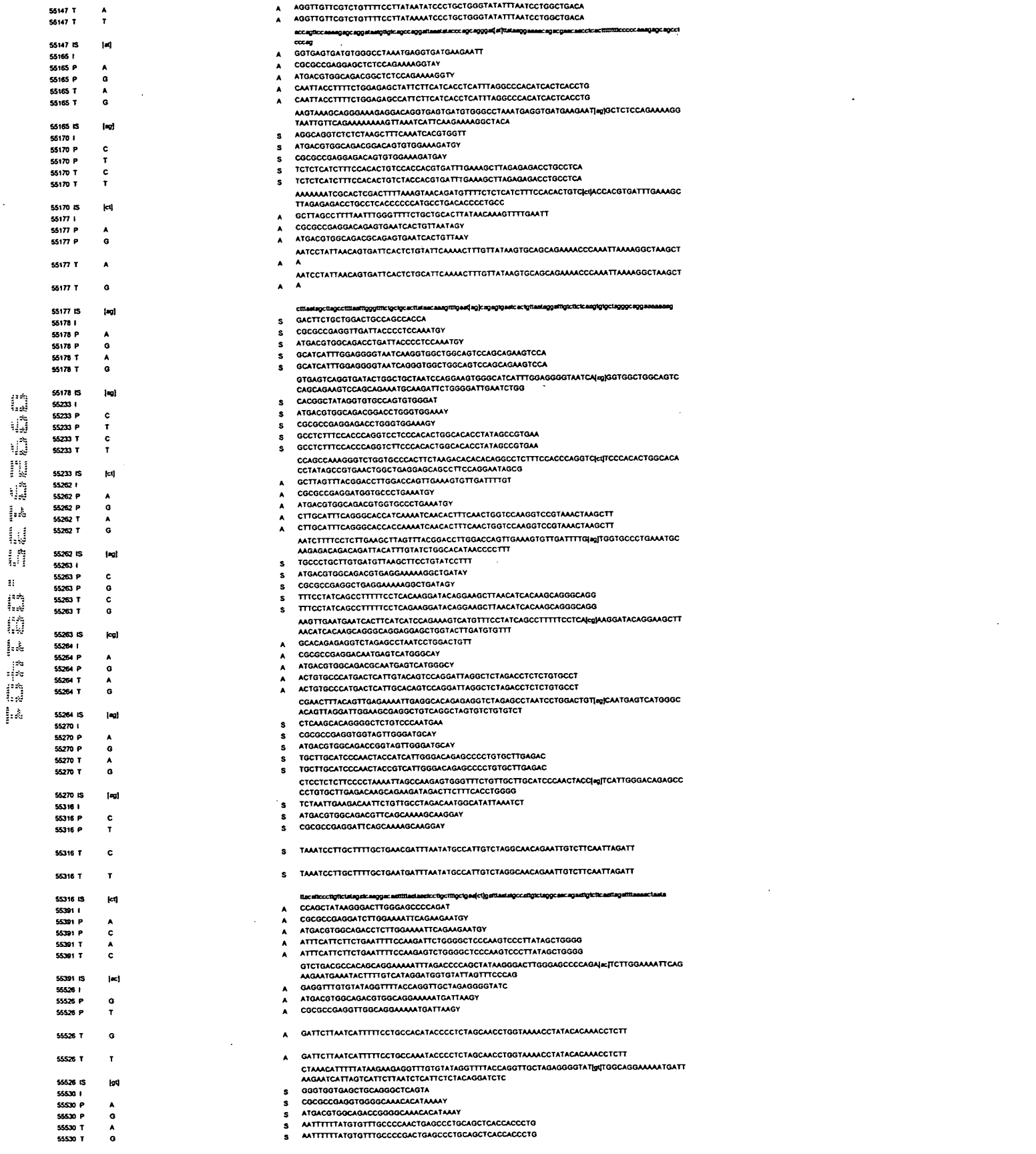
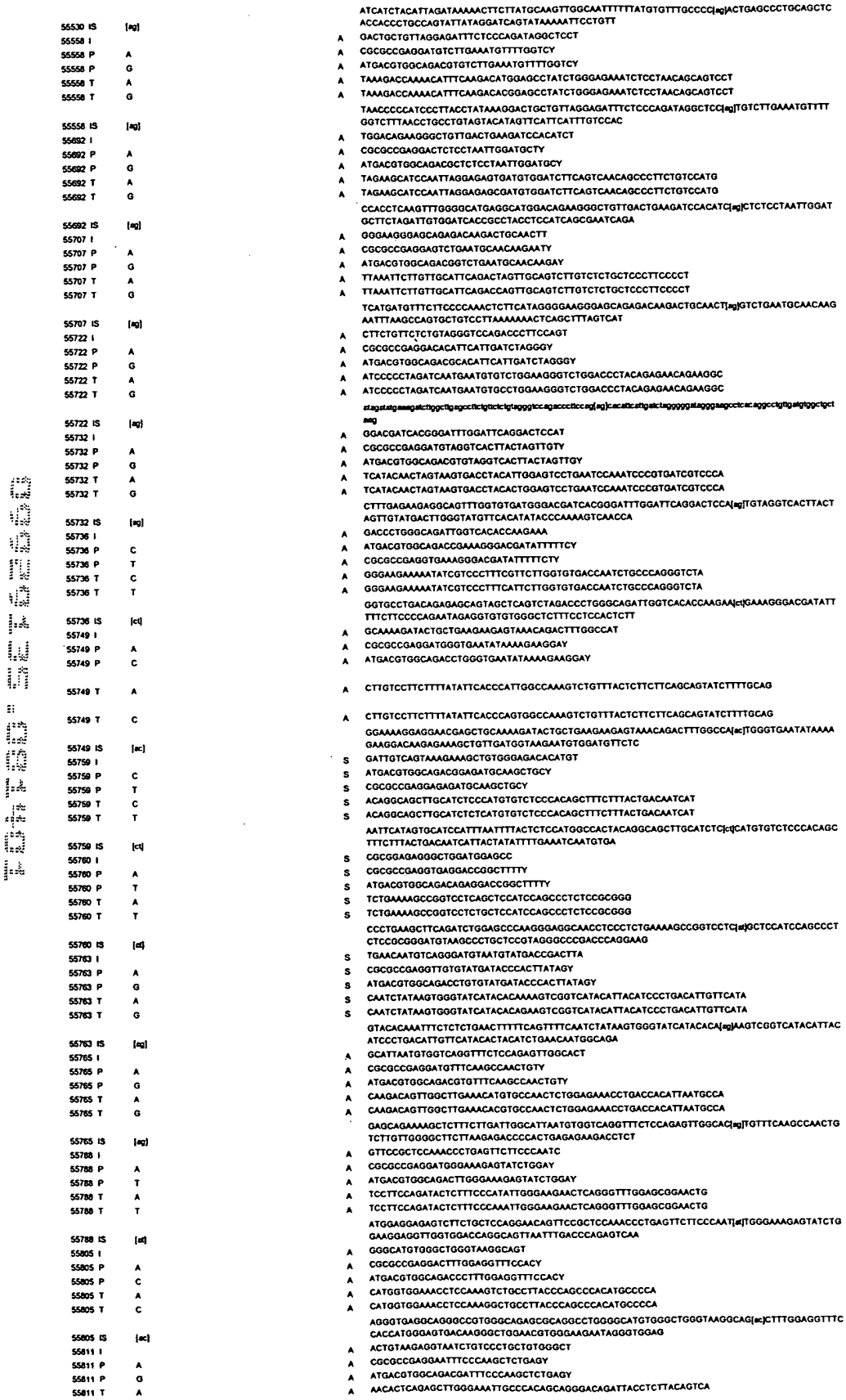
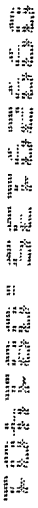

54851 T C A GTCCAGGCGACATCAAATACCTGAGCTGTATTTCATGAAAGTTCCCCTTCAGATGCAGGCCA
54851 T T A GTCCAGGCGACATCAAATACCTAAGCTGTATTTCATGAAAGTTCCCCTTCAGATGCAGGCCA
ACAGAAATGCTACCTACCCTGTGGCCTGCATCTGAAGGGGAACTTTCATGAAATACAGCT[ct]AGGTATTTGATGTCGC
54851 IS [ct] CTGGACAGAATAATGAAACACTTCTTACAGGCAATTTATGAGTC
54858 I A GCTTTCTAAGCTGTAGAAGGAAGGTCTTCAAATTTCTTCAT
54858 P A A CGCGCCGAGGATGAAGTCTTACAAGCTGTCY
54858 P C A ATGACGTGGCAGACCTGAAGTCTTACAAGCTGTCY
54858 T A A ACAAGACAGCTTGTAAGACTTCATTGAAGAAATTTGAAGACCTTCCTTCTACAGCTTAGAAAGCTA
54858 T C A ACAAGACAGCTTGTAAGACTTCAGTGAAGAAATTTGAAGACCTTCCTTCTACAGCTTAGAAAGCTA
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54858 IS [ac] TCTTGTCCTATTTCTTGGATTTCATTCTTCCAACAAAACCCTT
54867 I A GCATACCTGGACACCAGAGACAAGAAAACTTAGATGATGCT
54867 P A A CGCGCCGAGGATAATAGAGAGGTTGCTGAGY
54867 P G A ATGACGTGGCAGACGTAATAGAGAGGTTGCTGAGY
54867 T A A CTGGCTCAGCAACCTCTCTATTATGCATCATCTAAGTTTTCTTGTCTCTGGTGTCCAGGTATGCTT
54867 T G A CTGGCTCAGCAACCTCTCTATTACGCATCATCTAAGTTTTCTTGTCTCTGGTGTCCAGGTATGCTT
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54867 IS [ag] GAGCCAGAAAATAGAGCAGAATGGAGAAGAGAGAATCTAGAGGG
54869 I S TTCTTCATTTGGGTTTGGTTTGGTTTTAGTTTTAGGGAGT
54869 P C S ATGACGTGGCAGACGAAGAAATAGTTGAAACTGTTTGTY
54869 P T S CGCGCCGAGGAAAGAAATAGTTGAAACTGTTTGTY
54869 T C S ATATACAAACAGTTTCAACTATTTCTTCCTCCCTAAAACTAAAACCAAACCAAACCCAAATGAAGAAAC
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54938 P C A ATGACGTGGCAGACCTAACACAGTCAGAAAGGCY
54938 P T A CGCGCCGAGGTTAACACAGTCAGAAAGGCY
54938 T C A ATGTGCCTTTCTGACTGTGTTAGGTTTATCTTTGAATTTTGTTTTCATGAAGCACGGTTTGAAGAACTCTCGCAC
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54943 P A S CGCGCCGAGGTAATTTAGGGGAGTACTGGAAY
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54943 T A S ACATTTCCAGTACTCCCCTAAATTACTTTGTGTCCCTCTGCAACCAATCCCTTCCCCC
54943 T T S ACATTTCCAGTACTCCCCTAAATTTCTTTGTGTCCCTCTGCAACCAATCCCTTCCCCC
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55016 P C S ATGACGTGGCAGACGGATGGGGTTGTTCAAAAY
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55016 T C S TGAACTTTTGAACAACCCCATCCCACTGCTTTGGGGGCCATGAGAACTGATGTGT
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55106 P A A CGCGCCGAGGACTTCCCTAATTCCCTTCCY
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55106 T A A GATGGGAAGGGAATTAGGGAAGTGATATCAAGGGAAGAGAGCAGGCTCCAAGGAGATGGG
55106 T G A GATGGGAAGGGAATTAGGGAAGCGATATCAAGGGAAGAGAGCAGGCTCCAAGGAGATGGG
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55108 I A CCATGGAAACAGATGCCATCAAGGGGATGCAC
55108 P A A CGCGCCGAGGACCTCCTTTCTGCCTGY
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55129 P C S ATGACGTGGCAGACGAGCTCTGATTTTCCTATGTY
55129 P T S CGCGCCGAGGAAGCTCTGATTTTCCTATGTCY
55129 T C S ATTTGACATAGGAAAATCAGAGCTCGCATTGTTAAGAGTTAAGAAGGGGGATTGTACCCACCTTGTT
55129 T T S ATTTGACATAGGAAAATCAGAGCTTGCATTGTTAAGAGTTAAGAAGGGGGATTGTACCCACCTTGTT
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55147 P A A CGCGCCGAGGATTATAAGGAAAACAGACGAACAY
55147 P T A ATGACGTGGCAGACTTTATAAGGAAAACAGACGAACAY

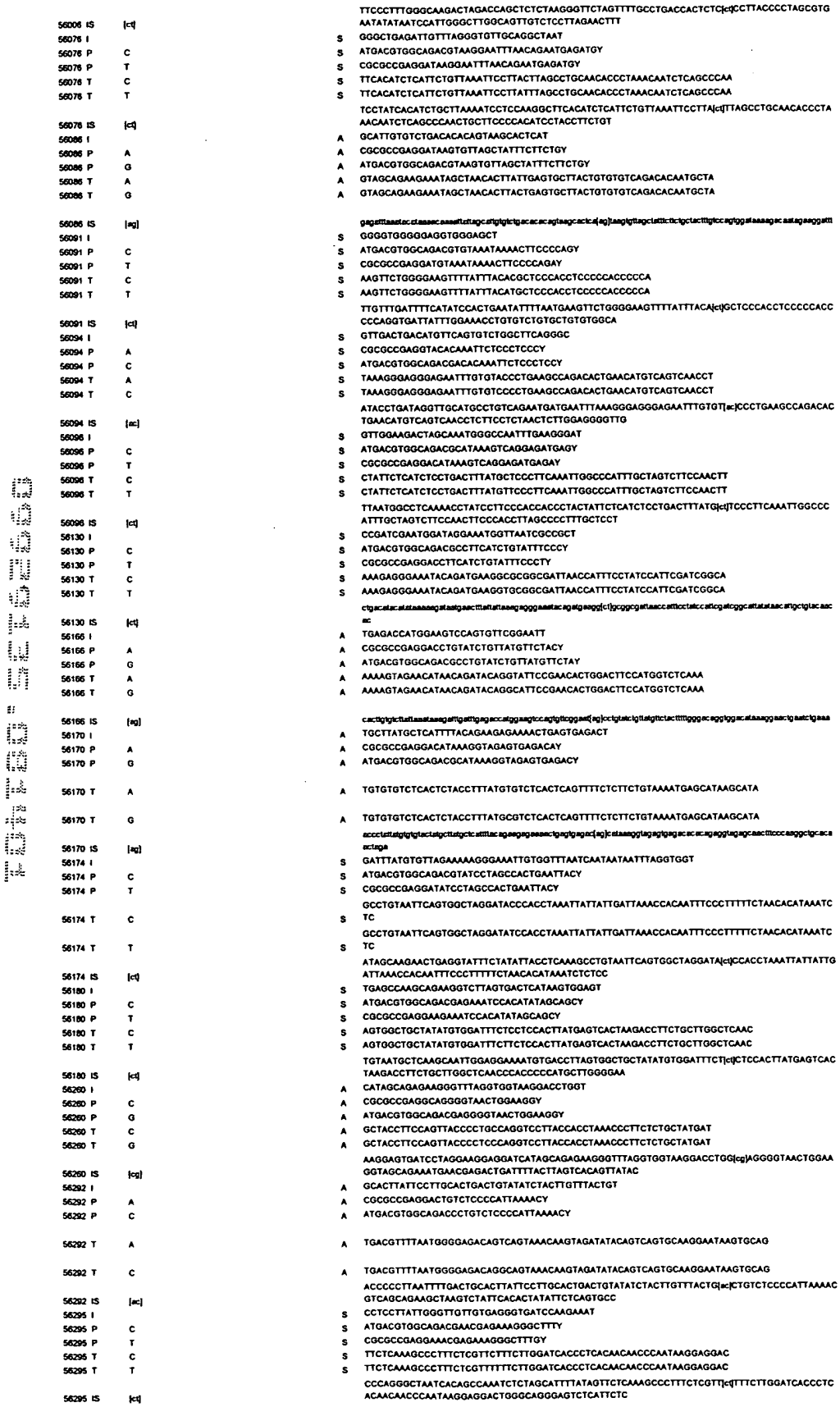
FIGURE 129D

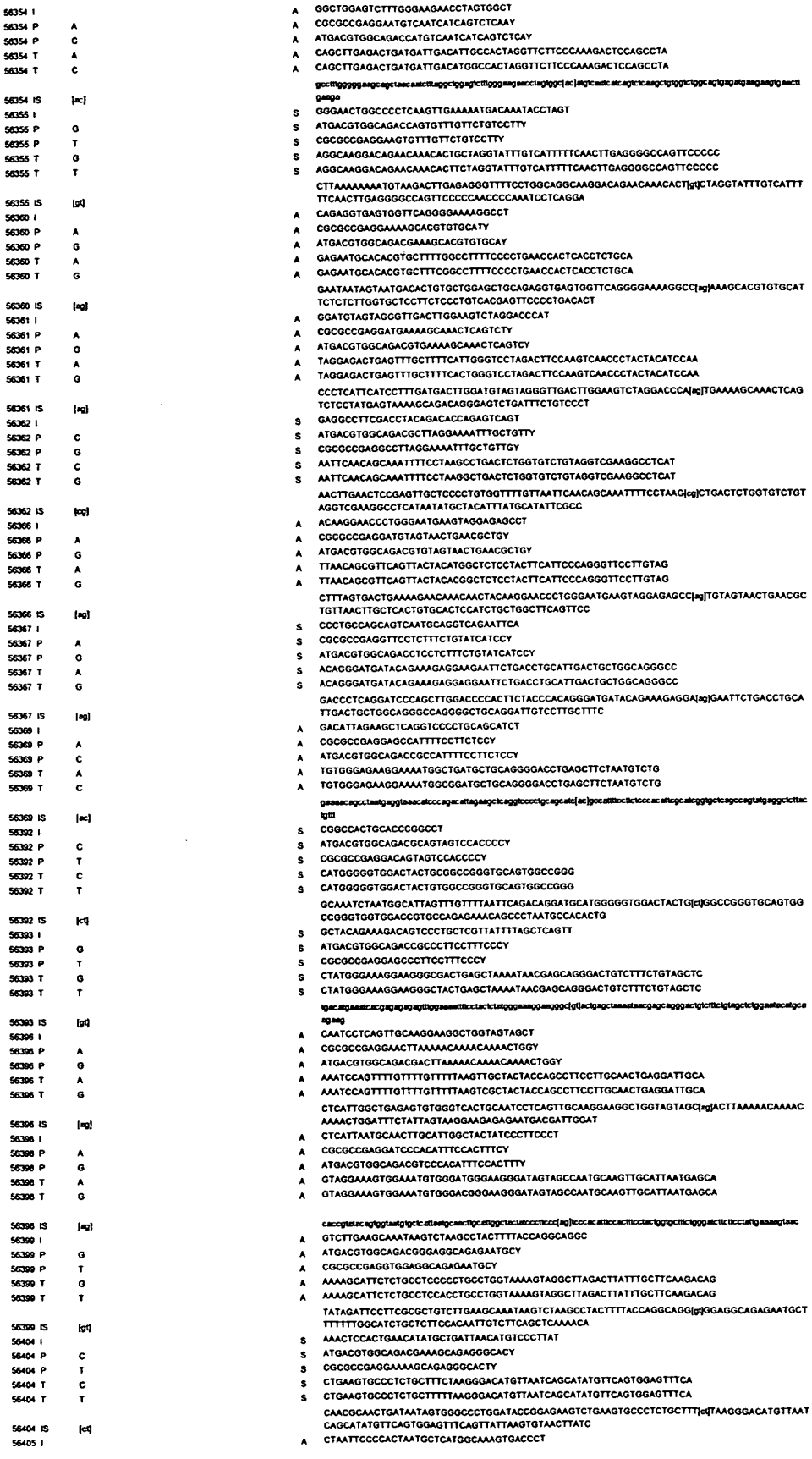



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55811 T A



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55812 P	C		S	ATGACGTGGCAGACGAAGCAGGGCAGGGY
55812 P	G		S	CGCGCCGAGGCAAGCAGGGCAGGGY
55812 T	C		S	CTTCCCCTGCCCTGCTTCGGTCCAGCATGGTGCCCGATACATT
55812 T	G		S	CTTCCCCTGCCCTGCTTGGGTCCAGCATGGTGCCCGATACATT
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55813 I			A	CCTGAACAAACCAATGAGGACCCCTAGTGGCC
55813 P	A		A	CGCGCCGAGGATGAACAGAATGGACATGCY
55813 P	T		A	ATGACGTGGCAGACTTGAACAGAATGGACATGCY
55813 T	A		A	TCCTGCATGTCCATTCTGTTCATGCCACTAGGGGTCCTCATTGGTTTGTTCAGGAC
55813 T	T		A	TCCTGCATGTCCATTCTGTTCAAGCCACTAGGGGTCCTCATTGGTTTGTTCAGGAC
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55814 I			A	CCAGATGTGAGGCGGCCCCCAA
55814 P	C		A	ATGACGTGGCAGACCAATGTTCTGTCAACAGAGGY
55814 P	T		A	CGCGCCGAGGTAATGTTCTGTCAACAGAGGY
55814 T	C		A	ACAGCCTCTGTTGACAGAACATTGTGGGGGCCGCCTCACATCTGGTG
55814 T	T		A	ACAGCCTCTGTTGACAGAACATTATGGGGGCCGCCTCACATCTGGTG
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55846 I			A	GGCAGAGCCTCTGAGTGGGGACTGAGATT
55846 P	A		A	CGCGCCGAGGAAAAGGACAGATCAGGAAGY
55846 P	G		A	ATGACGTGGCAGACGAAAGGACAGATCAGGAAGY
55846 T	A		A	ATTCCTTCCTGATCTGTCCTTTTATCTCAGTCCCCACTCAGAGGCTCTGCCTG
55846 T	G		A	ATTCCTTCCTGATCTGTCCTTTCATCTCAGTCCCCACTCAGAGGCTCTGCCTG
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55862 I			A	ACAGAGTGGGTGGCTTAGAGCAAAATTCATCTGTCTAGTAATTCT
55862 P	A		A	CGCGCCGAGGACTACGTAGAGATTTCTAGTAACTY
55862 P	G		A	ATGACGTGGCAGACGCTACGTAGAGATTTCTAGTAACY
55862 T	A		A	AACCAGTTACTAGAAATCTCTACGTAGTGAATTACTAGACAGATGAATTTTGCTCTAAGCCACCCACTCTGTAT
55862 T	G		A	AACCAGTTACTAGAAATCTCTACGTAGCGAATTACTAGACAGATGAATTTTGCTCTAAGCCACCCACTCTGTAT
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55870 P	T		S	CGCGCCGAGGAAAATATAATGGTGAGTTGGTTCY
55870 T	C		S	AAGAGAACCAACTCACCATTATATTTCAAATAAAAATGCTTAAGGTTTTGCCCCACTTTGATCAATCTAT
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55879 P	C		A	ATGACGTGGCAGACCGGCAGGTACACTCAY
55879 P	T		A	CGCGCCGAGGTGGCAGGTACACTCAGY
55879 T	C		A	AAAACTGAGTGTACCTGCCGTTGACCTTGGGTCCCTTAGGGCCAAGGCA
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55880 I			S	CCAGCCAGAGTGACAGCCCTAAAATAAAAATCAAATCACAACAA
55880 P	A		S	CGCGCCGAGGTTTCTTCCACTGGCTTTTTY
55880 P	G		S	ATGACGTGGCAGACCTTCTTCCACTGGCTTTTY
55880 T	A		S	CAACAAAAAGCCAGTGGAAGAAATGTTGTGATTTGATTTTTATTTTAGGGCTGTCACTCTGGCTGGTG
55880 T	G		S	CAACAAAAAGCCAGTGGAAGAAGTGTTGTGATTTGATTTTTATTTTAGGGCTGTCACTCTGGCTGGTG
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55881 P	A		S	CGCGCCGAGGTTGTTGAATCTGTTGACTCTTY
55881 P	C		S	ATGACGTGGCAGACGTGTTGAATCTGTTGACTCTY
55881 T	A		S	CCACAAGAGTCAACAGATTCAACAACGGGTCATCCGAGGCCAGGCCTT
55881 T	C		S	CCACAAGAGTCAACAGATTCAACACCGGGTCATCCGAGGCCAGGCCTT
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55899 P	C		S	ATGACGTGGCAGACGCCCTCTCCCGTATACY
55899 P	G		S	CGCGCCGAGGCCCCTCTCCCGTATACY
55899 T	C		S	ATAAGTATACGGGAGAGGGCCAAGCAAGAGTTCAGAGGCCCCTTGCTGTGG
55899 T	G		S	ATAAGTATACGGGAGAGGGCAAGCAAGAGTTCAGAGGCCCCTTGCTGTGG
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55919 P	A		S	CGCGCCGAGGTAGGGAGAGAAAACAGCAY
55919 P	T		S	ATGACGTGGCAGACAAGGGAGAGAAAACAGCAY
55919 T	A		S	CACTTGCTGTTTTCTCTCCCTAGAGCCCTCTGGTGCTTCTTTCTTCTGTAACCGTTT
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55927 P	C		S	ATGACGTGGCAGACGTGATTCAGCCAAGTGGY
55927 P	T		S	CGCGCCGAGGATGATTCAGCCAAGTGGY
55927 T	C		S	AACTCCACTTGGCTGAATCACCAGAACTTTTAGGAATCCCAGTTGTCTGGCCTGTTGAGG
55927 T	T		S	AACTCCACTTGGCTGAATCATCAGAACTTTTAGGAATCCCAGTTGTCTGGCCTGTTGAGG
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56006 P	C		S	ATGACGTGGCAGACGGAGAGTGGTCAGGCY
56006 P	T		S	CGCGCCGAGGAGAGAGTGGTCAGGCY
56006 T	C		S	TTTTGCCTGACCACTCTCCCCTTACCCCTAGCGTGAATATATAATCCATTGGGCTTGGCA
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56404 T C S CTGAAGTGCCCTCTGCTTTCTAAGGGACATGTTAATCAGCATATGTTCAGTGGAGTTTCA
56404 T T S CTGAAGTGCCCTCTGCTTTTTAAGGGACATGTTAATCAGCATATGTTCAGTGGAGTTTCA
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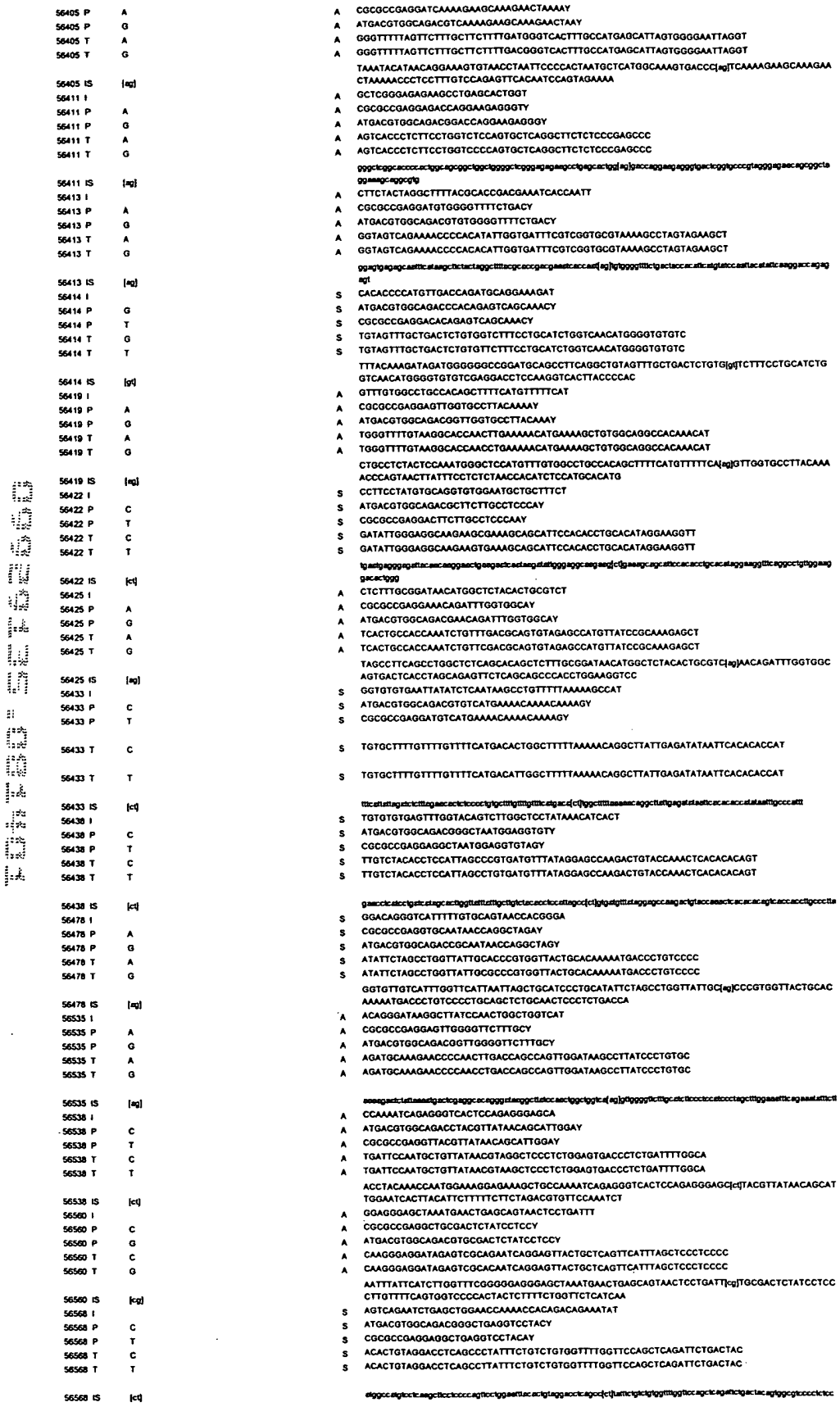

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56405 T G A GGGTTTTTAGTTCTTTGCTTCTTTTGACGGGTCACTTTGCCATGAGCATTAGTGGGGAATTAGGT
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56411 T A A AGTCACCCTCTTCCTGGTCTCCAGTGCTCAGGCTTCTCTCCCGAGCCC
56411 T G A AGTCACCCTCTTCCTGGTCCCCAGTGCTCAGGCTTCTCTCCCGAGCCC
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56411 IS [ag] ggaagc aggcgtg
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56413 P A A CGCGCCGAGGATGTGGGGTTTTCTGACY
56413 P G A ATGACGTGGCAGACGTGTGGGGTTTTCTGACY
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56413 T G A GGTAGTCAGAAAACCCCACACATTGGTGATTTCGTCGGTGCGTAAAAGCCTAGTAGAAGCT
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56422 T C S GATATTGGGAGGCAAGAAGCGAAAGCAGCATTCCACACCTGCACATAGGAAGGTT
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56425 P A A CGCGCCGAGGAAACAGATTTGGTGGCAY
56425 P G A ATGACGTGGCAGACGAACAGATTTGGTGGCAY
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56433 P T S CGCGCCGAGGATGTCATGAAAACAAAACAAAAGY
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56438 T C S TTGTCTACACCTCCATTAGCCCGTGATGTTTATAGGAGCCAAGACTGTACCAAACTCACACACAGT
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56538 P T A CGCGCCGAGGTTACGTTATAACAGCATTGGAY
56538 T C A TGATTCCAATGCTGTTATAACGTAGGCTCCCTCTGGAGTGACCCTCTGATTTTGGCA
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56560 T C A CAAGGGAGGATAGAGTCGCAGAATCAGGAGTTACTGCTCAGTTCATTTAGCTCCCTCCCC
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56568 T C S ACACTGTAGGACCTCAGCCCTATTTCTGTCTGTGGTTTTGGTTCCAGCTCAGATTCTGACTAC
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FIGURE 129D

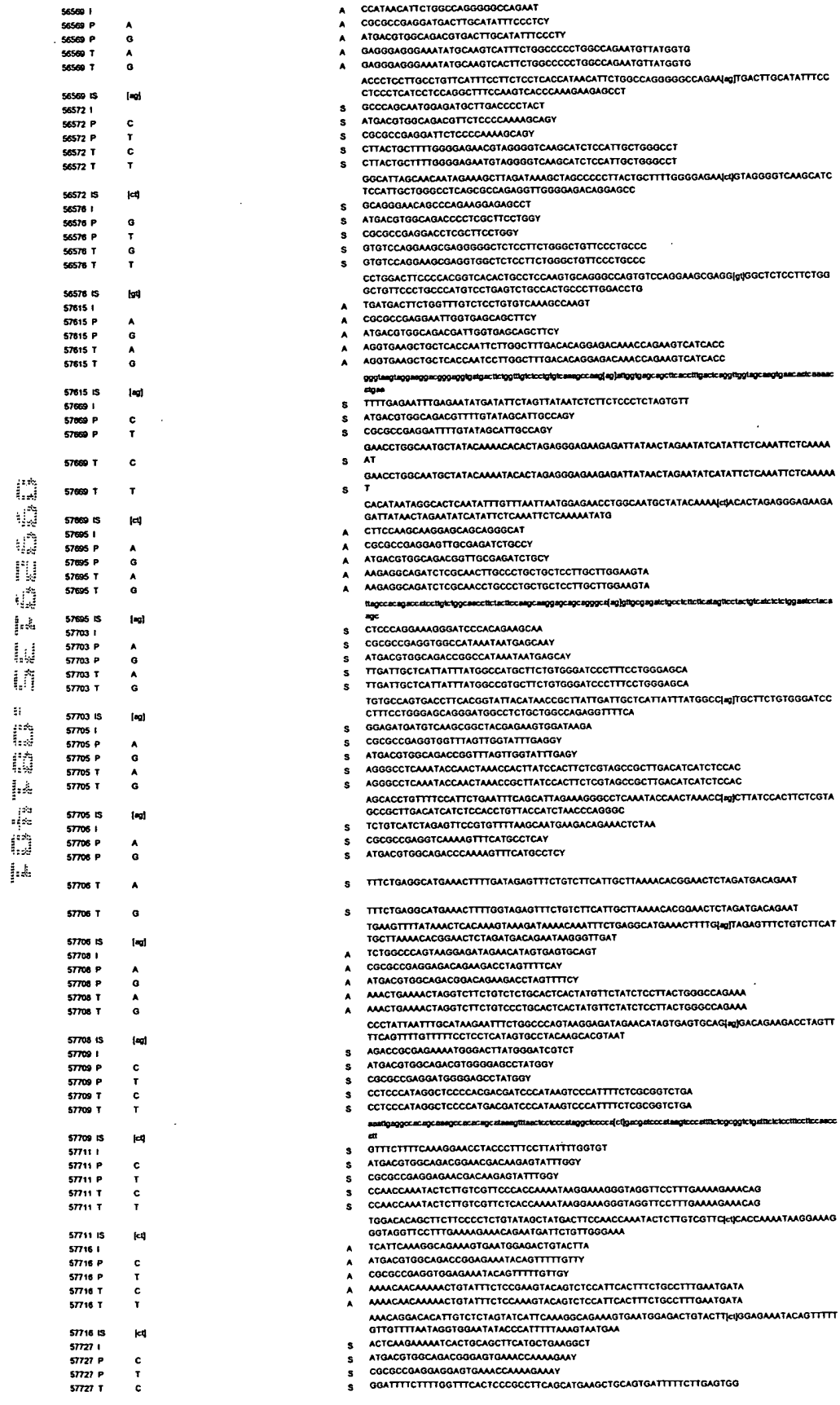

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57695 T G A AAGAGGCAGATCTCGCAACCTGCCCTGCTGCTCCTTGCTTGGAAGTA
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57705 P G S ATGACGTGGCAGACCGGTTTAGTTGGTATTTGAGY
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57706 P A S CGCGCCGAGGTCAAAAGTTTCATGCCTCAY
57706 P G S ATGACGTGGCAGACCCAAAAGTTTCATGCCTCY
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57708 P G A ATGACGTGGCAGACGGACAGAAGACCTAGTTTTCY
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57708 T G A AAACTGAAAACTAGGTCTTCTGTCCCTGCACTCACTATGTTCTATCTCCTTACTGGGCCAGAAA
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57709 T T S CCTCCCATAGGCTCCCCATGACGATCCCATAAGTCCCATTTTCTCGCGGTCTGA
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57709 IS [ct] att
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57716 P C A ATGACGTGGCAGACCGGAGAAATACAGTTTTTGTTY
57716 P T A CGCGCCGAGGTGGAGAAATACAGTTTTTGTTGY
57716 T C A AAAACAACAAAAACTGTATTTCTCCGAAGTACAGTCTCCATTCACTTTCTGCCTTTGAATGATA
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57727 P C S ATGACGTGGCAGACGGGAGTGAAACCAAAAGAAY
57727 P T S CGCGCCGAGGAGGAGTGAAACCAAAAGAAY
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FIGURE 129D

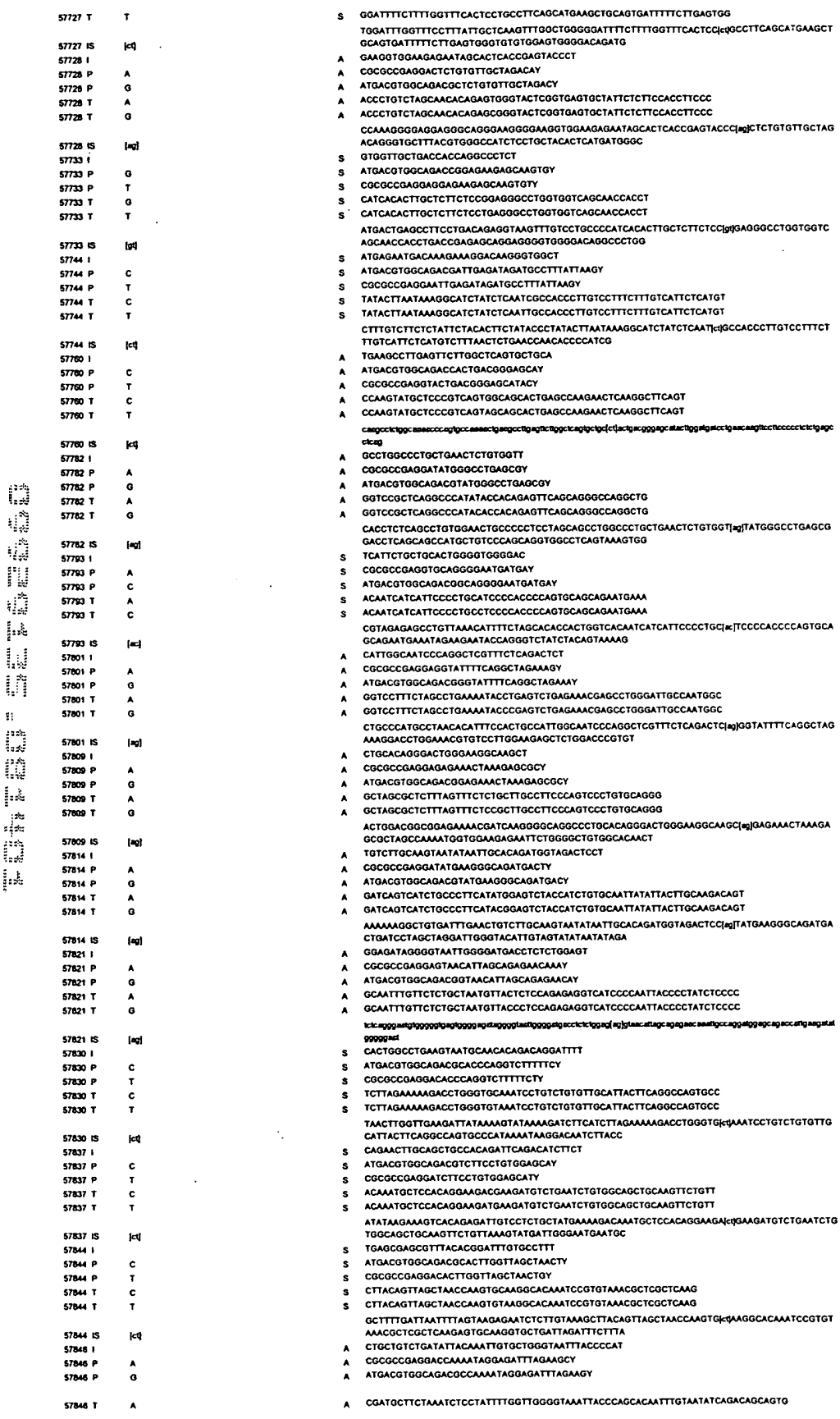
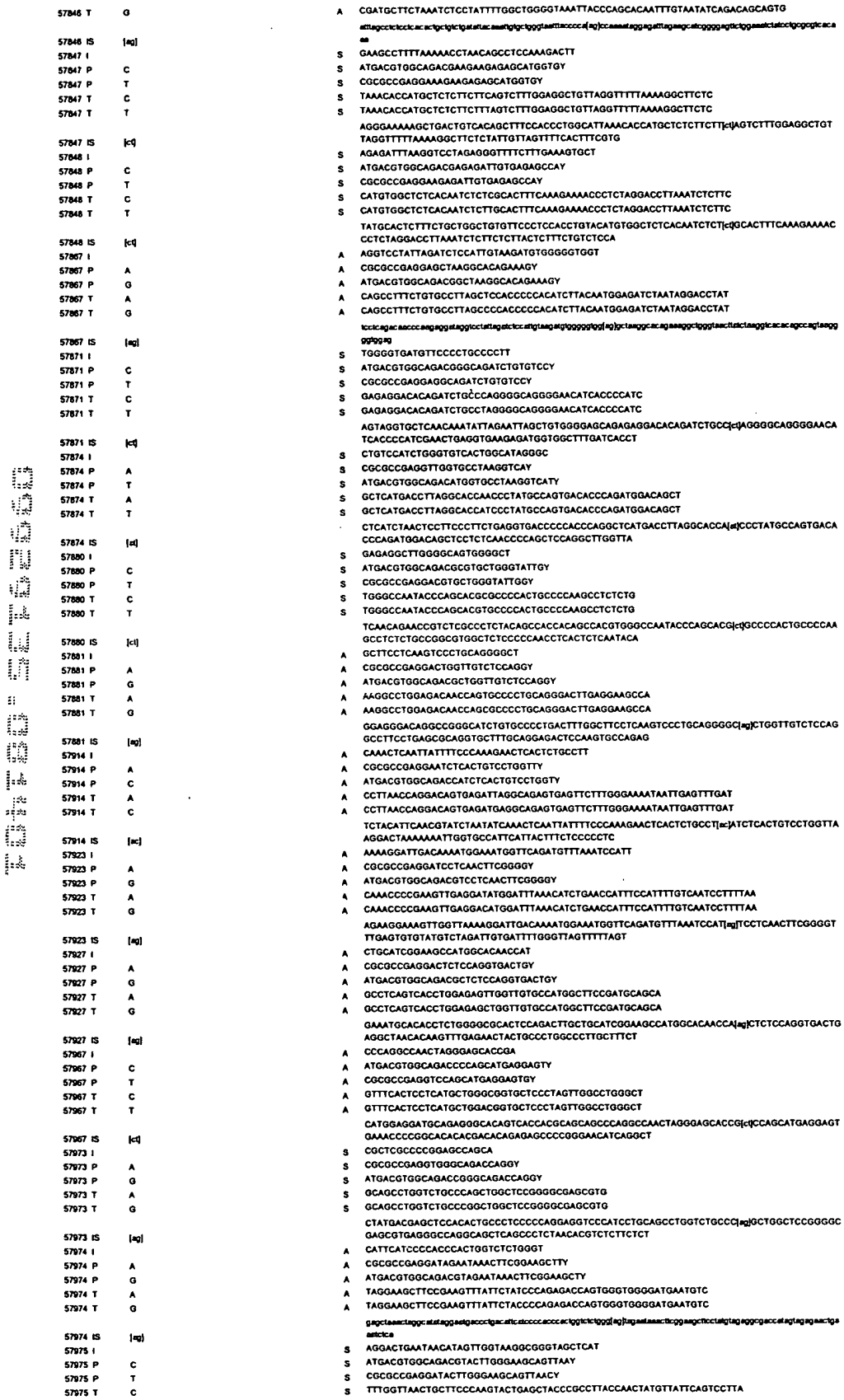


FIGURE 129D



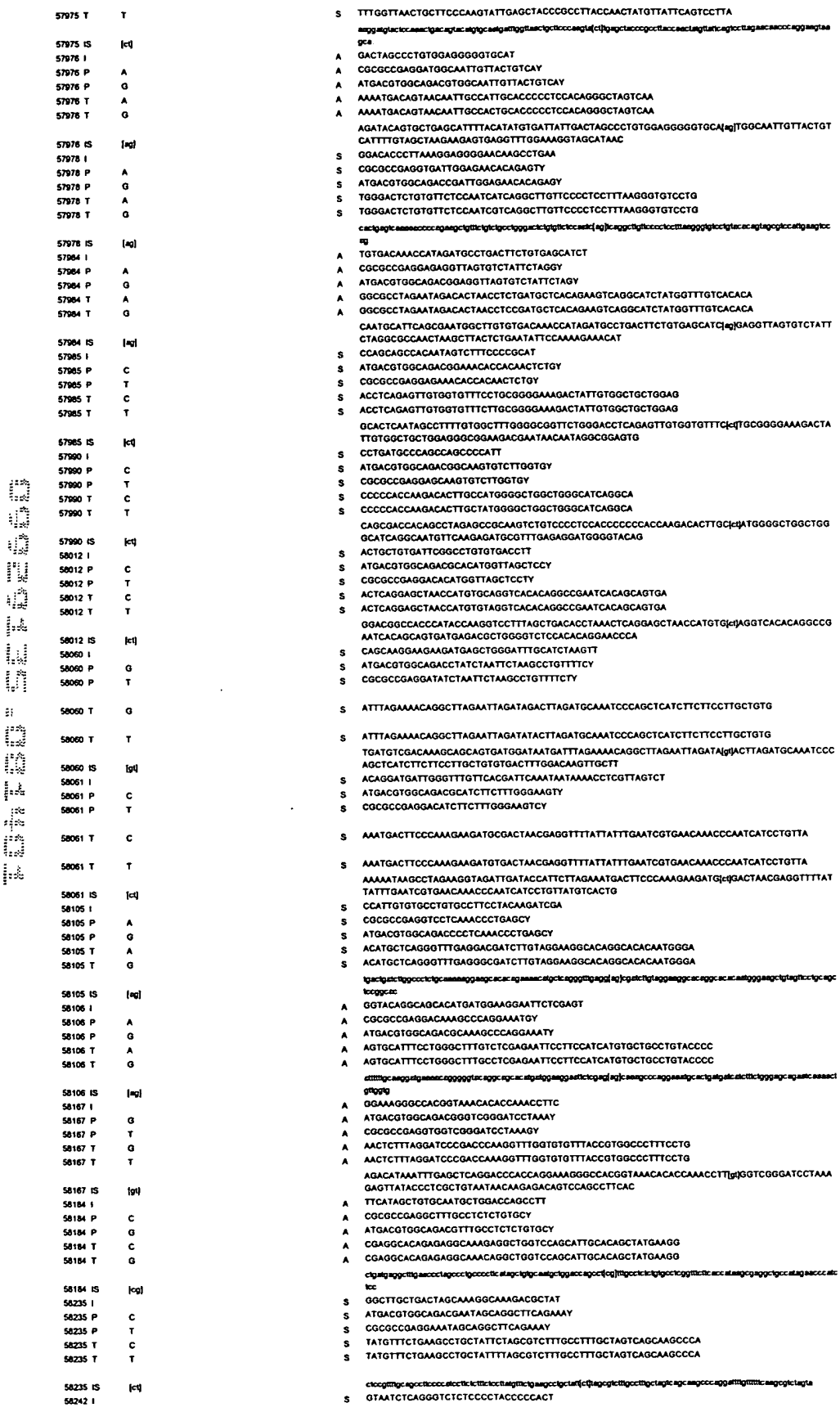
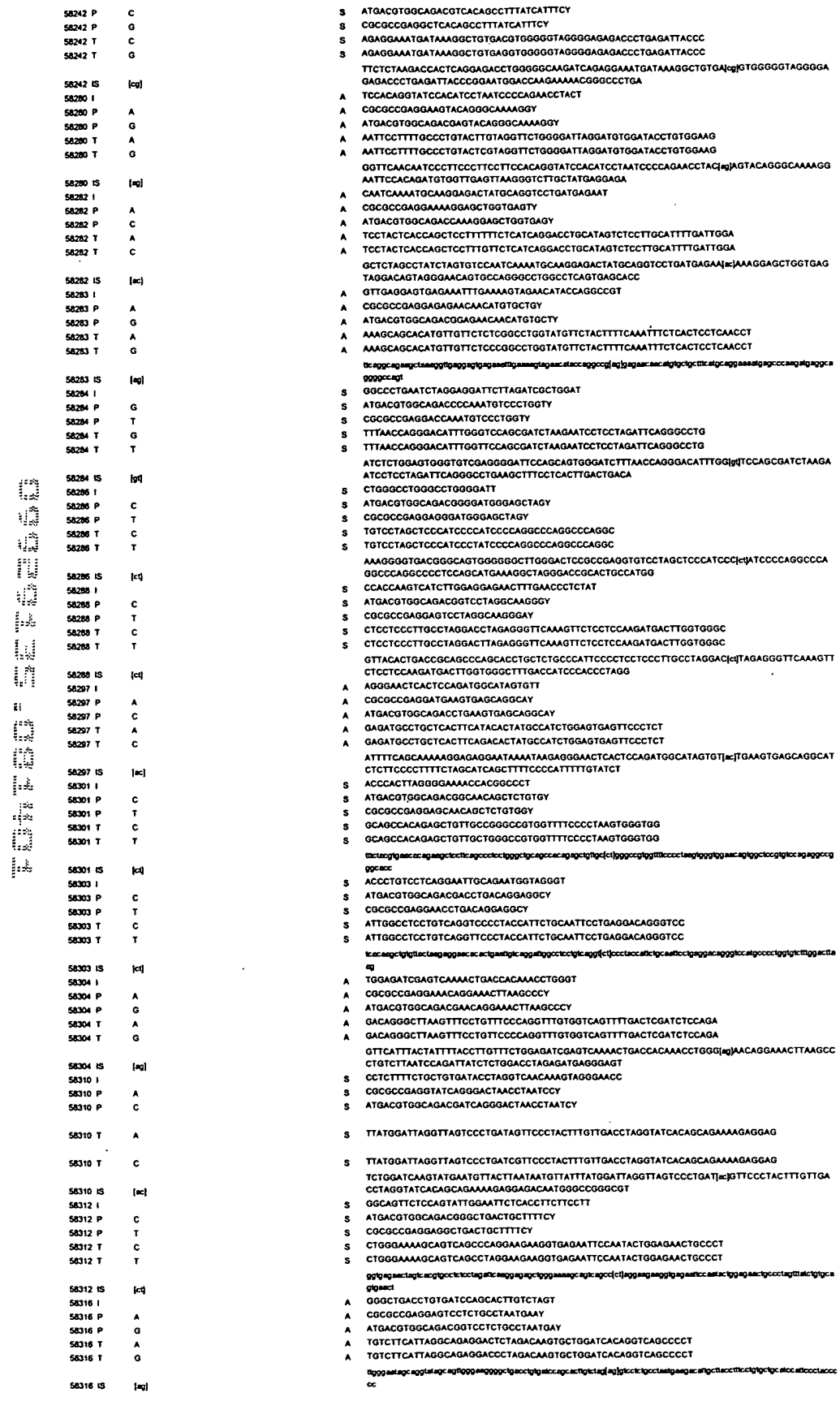
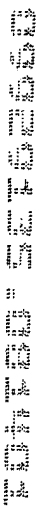

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57976 T G A AAAATGACAGTAACAATTGCCACTGCACCCCCTCCACAGGGCTAGTCAA
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57985 T C S ACCTCAGAGTTGTGGTGTTTCCTGCGGGGAAAGACTATTGTGGCTGCTGGAG
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58106 P A A CGCGCCGAGGACAAAGCCCAGGAAATGY
58106 P G A ATGACGTGGCAGACGCAAAGCCCAGGAAATY
58106 T A A AGTGCATTTCCTGGGCTTTGTCTCGAGAATTCCTTCCATCATGTGCTGCCTGTACCCC
58106 T G A AGTGCATTTCCTGGGCTTTGCCTCGAGAATTCCTTCCATCATGTGCTGCCTGTACCCC
58106 tS [ag] gttggtg
58167 I A GGAAAGGGCCACGGTAAACACACCAAACCTTC
58167 P G A ATGACGTGGCAGACGGGTCGGGATCCTAAAY
58167 P T A CGCGCCGAGGTGGTCGGGATCCTAAAGY
58167 T G A AACTCTTTAGGATCCCGACCCAAGGTTTGGTGTGTTTACCGTGGCCCTTTCCTG
58167 T T A AACTCTTTAGGATCCCGACCAAAGGTTTGGTGTGTTTACCGTGGCCCTTTCCTG
58167 tS [gt] GAGTTATACCCTCGCTGTAATAACAAGAGACAGTCCAGCCTTCAC
58184 I A TTCATAGCTGTGCAATGCTGGACCAGCCTT
58184 P C A CGCGCCGAGGCTTTGCCTCTCTGTGCY
58184 P G A ATGACGTGGCAGACGTTTGCCTCTCTGTGCY
58184 T C A CGAGGCACAGAGAGGCAAAGAGGCTGGTCCAGCATTGCACAGCTATGAAGG
58184 T G A CGAGGCACAGAGAGGCAAACAGGCTGGTCCAGCATTGCACAGCTATGAAGG
58184 tS [cg] tcc
58235 I S GGCTTGCTGACTAGCAAAGGCAAAGACGCTAT
58235 P C S ATGACGTGGCAGACGAATAGCAGGCTTCAGAAAY
58235 P T S CGCGCCGAGGAAATAGCAGGCTTCAGAAAY
58235 T C S TATGTTTCTGAAGCCTGCTATTCTAGCGTCTTTGCCTTTGCTAGTCAGCAAGCCCA
58235 T T S TATGTTTCTGAAGCCTGCTATTTTAGCGTCTTTGCCTTTGCTAGTCAGCAAGCCCA
58235 tS [ct]
58242 I S GTAATCTCAGGGTCTCTCCCCTACCCCCACT

FIGURE 129D


58242 P C S ATGACGTGGCAGACGTCACAGCCTTTATCATTTCY
58242 P G S CGCGCCGAGGCTCACAGCCTTTATCATTTCY
58242 T C S AGAGGAAATGATAAAGGCTGTGACGTGGGGGTAGGGGAGAGACCCTGAGATTACCC
58242 T G S AGAGGAAATGATAAAGGCTGTGAGGTGGGGGTAGGGGAGAGACCCTGAGATTACCC
58242 IS [cg] TTCTCTAAGACCACTCAGGAGACCTGGGGGCAAGATCAGAGGAAATGATAAAGGCTGTGA[cg]GTGGGGGTAGGGGA GAGACCCTGAGATTACCCGGAATGGACCAAGAAAAACGGGCCCTGA
58280 I A TCCACAGGTATCCACATCCTAATCCCCAGAACCTACT
58280 P A A CGCGCCGAGGAAGTACAGGGCAAAAGGY
58280 P G A ATGACGTGGCAGACGAGTACAGGGCAAAAGGY
58280 T A A AATTCCTTTTGCCCTGTACTTGTAGGTTCTGGGGATTAGGATGTGGATACCTGTGGAAG
58280 T G A AATTCCTTTTGCCCTGTACTCGTAGGTTCTGGGGATTAGGATGTGGATACCTGTGGAAG
58280 IS [ag] GGTTCAACAATCCCTTCCCTTCCTTCCACAGGTATCCACATCCTAATCCCCAGAACCTAC[ag]AGTACAGGGCAAAAGG AATTCCACAGATGTGGTTGAGTTAAGGGTCTTGCTATGAGGAGA
58282 I A CAATCAAAATGCAAGGAGACTATGCAGGTCCTGATGAGAAT
58282 P A A CGCGCCGAGGAAAAGGAGCTGGTGAGTY
58282 P C A ATGACGTGGCAGACCAAAGGAGCTGGTGAGY
58282 T A A TCCTACTCACCAGCTCCTTTTTTCTCATCAGGACCTGCATAGTCTCCTTGCATTTTGATTGGA
58282 T C A TCCTACTCACCAGCTCCTTTGTTCTCATCAGGACCTGCATAGTCTCCTTGCATTTTGATTGGA
58282 IS [ac] GCTCTAGCCTATCTAGTGTCCAATCAAAATGCAAGGAGACTATGCAGGTCCTGATGAGAA[ac]AAAGGAGCTGGTGAG TAGGACAGTAGGGAACAGTGCCAGGGCCTGGCCTCAGTGAGCACC
58283 I A GTTGAGGAGTGAGAAATTTGAAAAGTAGAACATACCAGGCCGT
58283 P A A CGCGCCGAGGAGAGAACAACATGTGCTGY
58283 P G A ATGACGTGGCAGACGGAGAACAACATGTGCTY
58283 T A A AAAGCAGCACATGTTGTTCTCTCGGCCTGGTATGTTCTACTTTTCAAATTTCTCACTCCTCAACCT
58283 T G A AAAGCAGCACATGTTGTTCTCCCGGCCTGGTATGTTCTACTTTTCAAATTTCTCACTCCTCAACCT
58283 IS [ag] ttcaggcagaagctaaaggttgaggagtgagaaattgaaaagtagaacatacccaggccg[ag]gagaacaacatgtgctgcttcatgcaggaaaatgagcccaagatgaggca ggggccagt
58284 I S GGCCCTGAATCTAGGAGGATTCTTAGATCGCTGGAT
58284 P G S ATGACGTGGCAGACCCCAAATGTCCCTGGTY
58284 P T S CGCGCCGAGGACCAAATGTCCCTGGTY
58284 T G S TTTAACCAGGGACATTTGGGTCCAGCGATCTAAGAATCCTCCTAGATTCAGGGCCTG
58284 T T S TTTAACCAGGGACATTTGGTTCCAGCGATCTAAGAATCCTCCTAGATTCAGGGCCTG
58284 IS [gt] ATCTCTGGAGTGGGTGTCGAGGGGATTCCAGCAGTGGGATCTTTAACCAGGGACATTTGG[gt]TCCAGCGATCTAAGA ATCCTCCTAGATTCAGGGCCTGAAGCTTTCCTCACTTGACTGACA
58286 I S CTGGGCCTGGGCCTGGGGATT
58286 P C S ATGACGTGGCAGACGGGGATGGGAGCTAGY
58286 P T S CGCGCCGAGGAGGGATGGGAGCTAGY
58286 T C S TGTCCTAGCTCCCATCCCCATCCCCAGGCCCAGGCCCAGGC
58286 T T S TGTCCTAGCTCCCATCCCTATCCCCAGGCCCAGGCCCAGGC
58286 IS [ct] AAAGGGGTGACGGGCAGTGGGGGGCTTGGGACTCCGCCGAGGTGTCCTAGCTCCCATCCC[ct]ATCCCCAGGCCCA GGCCCAGGCCCCTCCAGCATGAAAGGCTAGGGACCGCACTGCCATGG
58288 I S CCACCAAGTCATCTTGGAGGAGAACTTTGAACCCTCTAT
58288 P C S ATGACGTGGCAGACGGTCCTAGGCAAGGGY
58288 P T S CGCGCCGAGGAGTCCTAGGCAAGGGAY
58288 T C S CTCCTCCCTTGCCTAGGACCTAGAGGGTTCAAAGTTCTCCTCCAAGATGACTTGGTGGGC
58288 T T S CTCCTCCCTTGCCTAGGACTTAGAGGGTTCAAAGTTCTCCTCCAAGATGACTTGGTGGGC
58288 IS [ct] GTTACACTGACCGCAGCCCAGCACCTGCTCTGCCCATTCCCCTCCTCCCTTGCCTAGGAC[ct]TAGAGGGTTCAAAGTT CTCCTCCAAGATGACTTGGTGGGCTTTGACCATCCCACCCTAGG
58297 I A AGGGAACTCACTCCAGATGGCATAGTGTT
58297 P A A CGCGCCGAGGATGAAGTGAGCAGGCAY
58297 P C A ATGACGTGGCAGACCTGAAGTGAGCAGGCAY
58297 T A A GAGATGCCTGCTCACTTCATACACTATGCCATCTGGAGTGAGTTCCCTCT
58297 T C A GAGATGCCTGCTCACTTCAGACACTATGCCATCTGGAGTGAGTTCCCTCT
58297 IS [ac] ATTTTCAGCAAAAAGGAGAGGAATAAAATAAGAGGGAACTCACTCCAGATGGCATAGTGT[ac]TGAAGTGAGCAGGCAT CTCTTCCCCTTTTCTAGCATCAGCTTTTCCCCATTTTTGTATCT
58301 I S ACCCACTTAGGGGAAAACCACGGCCCT
58301 P C S ATGACGTGGCAGACGGCAACAGCTCTGTGY
58301 P T S CGCGCCGAGGAGCAACAGCTCTGTGGY
58301 T C S GCAGCCACAGAGCTGTTGCCGGGCCGTGGTTTTCCCCTAAGTGGGTGG
58301 T T S GCAGCCACAGAGCTGTTGCTGGGCCGTGGTTTTCCCCTAAGTGGGTGG
58301 IS [ct] ttctccgtggaccccagaagctcctccttcagccctcctgggctgcagccaccagagctgttgc[ct]gggccgtggtttcccctaagtgggtggaaccagtggctccgtgtccagaggccg ggcacc
58303 I S ACCCTGTCCTCAGGAATTGCAGAATGGTAGGGT
58303 P C S ATGACGTGGCAGACGACCTGACAGGAGGCY
58303 P T S CGCGCCGAGGAACCTGACAGGAGGCY
58303 T C S ATTGGCCTCCTGTCAGGTCCCCTACCATTCTGCAATTCCTGAGGACAGGGTCC
58303 T T S ATTGGCCTCCTGTCAGGTTCCCTACCATTCTGCAATTCCTGAGGACAGGGTCC
58303 IS [ct] tcaccagctgtgtactaagaggaaccactgcaatgtcaggatggcctcctgtcaggt[ct]ccctaccattctgcaattcctgaggacagggtccatgccccttggtgtcttttggacctta ag
58304 I A TGGAGATCGAGTCAAAACTGACCACAAACCTGGGT
58304 P A A CGCGCCGAGGAAAACAGGAAACTTAAGCCCY
58304 P G A ATGACGTGGCAGACGAACAGGAAACTTAAGCCCY
58304 T A A GACAGGGCTTAAGTTTCCTGTTTCCCAGGTTTGTGGTCAGTTTTGACTCGATCTCCAGA
58304 T G A GACAGGGCTTAAGTTTCCTGTTCCCCAGGTTTGTGGTCAGTTTTGACTCGATCTCCAGA
58304 IS [ag] GTTCATTTACTATTTTACCTTGTTTCTGGAGATCGAGTCAAAACTGACCACAAACCTGGG[ag]AACAGGAAACTTAAGCC CTGTCTTAATCCAGATTATCTCTGGACCTAGAGATGAGGGAGT
58310 I S CCTCTTTTCTGCTGTGATACCTAGGTCAACAAAGTAGGGAACC
58310 P A S CGCGCCGAGGTATCAGGGACTAACCTAATCCY
58310 P C S ATGACGTGGCAGACGATCAGGGACTAACCTAATCY
58310 T A S TTATGGATTAGGTTAGTCCCTGATAGTTCCCTACTTTGTTGACCTAGGTATCACAGCAGAAAAGAGGAG
58310 T C S TTATGGATTAGGTTAGTCCCTGATCGTTCCCTACTTTGTTGACCTAGGTATCACAGCAGAAAAGAGGAG
58310 IS [ac] TCTGGATCAAGTATGAATGTTACTTAATAATGTTATTTATGGATTAGGTTAGTCCCTGAT[ac]GTTCCCTACTTTGTTGA CCTAGGTATCACAGCAGAAAAGAGGAGACAATGGGCCGGGCGT
58312 I S GGCAGTTCTCCCAGTATTGGAATTCTCACCTTCTTCCTT
58312 P C S ATGACGTGGCAGACGGGCTGACTGCTTTTCY
58312 P T S CGCGCCGAGGAGGCTGACTGCTTTTCY
58312 T C S CTGGGAAAAGCAGTCAGCCCAGGAAGAAGGTGAGAATTCCAATACTGGAGAACTGCCCT
58312 T T S CTGGGAAAAGCAGTCAGCCTAGGAAGAAGGTGAGAATTCCAATACTGGAGAACTGCCCT
58312 IS [ct] ggtggagaactagtcacgtgcctcttcctagatccaggagagagctgggaaaagccagtcagccc[ct]aggaagaaggtgagaattccaatactggagaactgcccttagttatctgtgcca gtgaact
58316 I A GGGCTGACCTGTGATCCAGCACTTGTCTAGT
58316 P A A CGCGCCGAGGAGTCCTCTGCCTAATGAAY
58316 P G A ATGACGTGGCAGACGGTCCTCTGCCTAATGAY
58316 T A A TGTCTTCATTAGGCAGAGGACTCTAGACAAGTGCTGGATCACAGGTCAGCCCCT
58316 T G A TGTCTTCATTAGGCAGAGGACCCTAGACAAGTGCTGGATCACAGGTCAGCCCCT
58316 IS [ag] tgggaatagccaggtatagcagttgggaaggggctgacctgtgatccagcactgtctag[ag]gtcctctgcctaatgaagaccattgcttacctttcctgtgctgccatccatcccctaccc cc



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58318 I          S  GGATGCATCCCCTTTCTCTTCCCAGACCATCAT
58318 P  C       S  ATGACGTGGCAGACGCCTCTTCCCATTTCCY
58318 P  T       S  CGCGCCGAGGACCTCTTCCCATTTCCAY
58318 T  C       S  GGTTTGGAAATGGGAAGAGGCTGATGGTCTGGGAAGAGAAAGGGGATGCATCCAC
58318 T  T       S  GGTTTGGAAATGGGAAGAGGTTGATGGTCTGGGAAGAGAAAGGGGATGCATCCAC
58318 tS {ct}       tgctacctatacgtagagaaaaatgattgctgcatgactggtttggaaatgggaagaggcctgatggctctgggaagagaaggggatgcatccacaactaaatgaaactctggct
                    gtggg
58319 I          S  GAGCGTTCTATTTGCTCATCCTCATGGCCAACAGC
58319 P  A       S  CGCGCCGAGGTTGTTTGTGGAGGGAGAY
58319 P  T       S  ATGACGTGGCAGACATGTTTGTGGAGGGAGAY
58319 T  A       S  GACATCTCCCTCCACAAACAACTGTTGGCCATGAGGATGAGCAAATAGAACGCTCTA
58319 T  T       S  GACATCTCCCTCCACAAACATCTGTTGGCCATGAGGATGAGCAAATAGAACGCTCTA
58319 tS {at}       CACATAGTTAACCAGTAGCAATGGCAGCCCCCTGCTTGCTGACATCTCCCTCCACAAACA[at]CTGTTGGCCATGAGGA
                    TGAGCAAATAGAACGCTCTAGCAAATCCAGGCAGGTTGGGGGAG
58320 I          A  CTTACTCATGTCCCTTGGAAATTAAGAAGGAAGCCAGGAGT
58320 P  A       A  CGCGCCGAGGAATAGCTGCCATAACCAGY
58320 P  C       A  ATGACGTGGCAGACCATAGCTGCCATAACCAGY
58320 T  A       A  ATCCCTGGTTATGGCAGCTATTCTCCTGGCTTCCTTCTTAATTTCCAAGGGACATGAGTAAGCA
58320 T  C       A  ATCCCTGGTTATGGCAGCTATGCTCCTGGCTTCCTTCTTAATTTCCAAGGGACATGAGTAAGCA
58320 tS {ac}       cccgaaatactcctccactgcttactcatgtccctggaaattaagaaggaagccaggag[ac]atagctgccataaccagggatgaactctgtgtccactgctgcctgctatgctagc
                    aaccag
58322 I          A  CACAGTTCTGAAGAAAAAGGCAGGATTCTGTGTAGCCT
58322 P  A       A  CGCGCCGAGGAGGTAAATTTCTGTGTAACAAATCY
58322 P  G       A  ATGACGTGGCAGACGGGTAAATTTCTGTGTAACAAATY
58322 T  A       A  CCCGGATTTGTTACACAGAAATTTACCTGGCTACACAGAATCCTGCCTTTTTCTTCAGAACTGTGCT
58322 T  G       A  CCCGGATTTGTTACACAGAAATTTACCCGGCTACACAGAATCCTGCCTTTTTCTTCAGAACTGTGCT
58322 tS {ag}       ACCAAGGCTTTGGCACAATGAAGCACAGTTCTGAAGAAAAAGGCAGGATTCTGTGTAGCC[ag]GGTAAATTTCTGTGTA
                    ACAAATCCGGGTTATGTAGAATAAAGATGATCTCTGGATATCAA
58323 I          S  CAAGGAGGAAGGAAGAGAAGAGCTCCCTACCCT
58323 P  C       S  ATGACGTGGCAGACGCCTGAGAAGCAGCTY
58323 P  G       S  CGCGCCGAGGCCCTGAGAAGCAGCTY
58323 T  C       S  CTCCAGCTGCTTCTCAGGCGGGTAGGGAGCTCTTCTCTTCCTTCCTCCTTGTT
58323 T  G       S  CTCCAGCTGCTTCTCAGGGGGGTAGGGAGCTCTTCTCTTCCTTCCTCCTTGTT
58323 tS {cg}       ttctcagaatgcctctgggtggtttgaaagtattaagctctccagctgctctcaggcgcgggtagggagctctctcttcctcctcttgtctgtctgagttgttaggactcaaaaa
58324 I          S  GGTGATAATTGCCTTATCTCTGATTCCATTCTCTTTCTGGATCTTCTGTTAT
58324 P  C       S  ATGACGTGGCAGACGATGTTGGATCACCTGGY
58324 P  T       S  CGCGCCGAGGAATGTTGGATCACCTGGAY
58324 T  C       S  TCTGTCCAGGTGATCCAACATCTAACAGAAGATCCAGAAAGAGAATGGAATCAGAGATAAGGCAATTATCACCGA
58324 T  T       S  TCTGTCCAGGTGATCCAACATTTAACAGAAGATCCAGAAAGAGAATGGAATCAGAGATAAGGCAATTATCACCGA
58324 tS {ct}       AAAAAAAAACAGGAGAAAATTGATTAGAAATTCAGAAAATCTGTCCAGGTGATCCAACAT[ct]TAACAGAAGATCCAGAA
                    AGAGAATGGAATCAGAGATAAGGCAATTATCACCGAAGTAACT
58345 I          S  GTGAAGGCGGGAGTCTCCTAGGTACTTTT
58345 P  G       S  ATGACGTGGCAGACCCCCTCTGTGACCTCY
58345 P  T       S  CGCGCCGAGGACCCTCTGTGACCTCY
58345 T  G       S  GAACGAGGTCACAGAGGGGAAAGTACCTAGGAGACTCCCGCCTTCACTT
58345 T  T       S  GAACGAGGTCACAGAGGGTAAAGTACCTAGGAGACTCCCGCCTTCACTT
58345 tS {gt}       TAGAGAATTGGGAAAGGTCACTTTAAGCTAAAGAAACAGTATGAACGAGGTCACAGAGGG[gt]AAAGTACCTAGGAGAC
                    TCCCGCCTTCACTTTATGTAATGTGCTGTATGATTAACATATGC
58346 I          A  GCTGGACCAACTCCCAGTGGAGAGGGTAA
58346 P  C       A  ATGACGTGGCAGACCATAAGAGCCCCAGAGAY
58346 P  T       A  CGCGCCGAGGTATAAGAGCCCCAGAGAAAY
58346 T  C       A  CTCCTTTCTCTGGGGCTCTTATGTACCCTCTCCACTGGGAGTTGGTCCAGCCA
58346 T  T       A  CTCCTTTCTCTGGGGCTCTTATATACCCTCTCCACTGGGAGTTGGTCCAGCCA
58346 tS {ct}       ACATAAACAAGAACCAGGAAAGAAGCCTCTTGGCTGGACCAACTCCCAGTGGAGAGGGTA[ct]ATAAGAGCCCCAGAG
                    AAAGGAGAGATATTCACACCTCAGAAGCCTTATCCTTCTTTTCAA
58348 I          A  GTGCTAAATGAGAAAATGTGTGAACATAAATGAGCTAGTTTAACTAAAAGTTCACCAT
58348 P  A       A  CGCGCCGAGGAAATGTATTTTAAACATCAGGCTY
58348 P  C       A  ATGACGTGGCAGACCAATGTATTTTAAACATCAGGCTY
58348 T  A       A  TAAGAGCCTGATGTTTAAAATACATTTTGGTGAACTTTTAGTTAAACTAGCTCATTTATGTTCACACATTTTCTCATTTAG
                    CACCA
58348 T  C       A  TAAGAGCCTGATGTTTAAAATACATTGTGGTGAACTTTTAGTTAAACTAGCTCATTTATGTTCACACATTTTCTCATTTA
                    GCACCA
58348 tS {ac}       ctggtgctaaatgagaaaatgtgtgaacataaatgagctagtttaactaaaagttcaccat[ac]aatgtatttaaacatcaggctattaagcctgatgtttaaaatacattgtggtgaacttttagttaaactagctcatttatgttcacacatttttctcatttaatc
                    atcctgct
58367 I          A  CTGGCCAGGAAAAGTGGGGAGGCCT
58367 P  A       A  CGCGCCGAGGATAAAGGAGAAAGACCATGCY
58367 P  G       A  ATGACGTGGCAGACGTAAAGGAGAAAGACCATGCY
58367 T  A       A  AAAGGCATGGTCTTTCTCCTTTATGGCCTCCCCACTTTTCCTGGCCAGAG
58367 T  G       A  AAAGGCATGGTCTTTCTCCTTTACGGCCTCCCCACTTTTCCTGGCCAGAG
58367 tS {ag}       TTTCCACCCCTCCCTCCCCGGCCCTTGGGCCCAGCTCTGGCCAGGAAAAGTGGGGAGGCC[ag]TAAAGGAGAAAGAC
                    CATGCCTTTCATTTTCTTCCTATGTCCTTATCGTCCATACATCCCA                                          MGC3123
58368 I          S  GCAAGTATCAAATGAGACCATGACGGGAAACGTCATAGAGT
58368 P  C       S  ATGACGTGGCAGACGGTGAAGAAGTGCTGCY
58368 P  T       S  CGCGCCGAGGAGTGAAGAAGTGCTGCY
58368 T  C       S  CTCCGCAGCACTTCTTCACCCTCTATGACGTTTCCCGTCATGGTCTCATTTGATACTTGCAA
58368 T  T       S  CTCCGCAGCACTTCTTCACTCTCTATGACGTTTCCCGTCATGGTCTCATTTGATACTTGCAA
58368 tS {ct}       TCAAGCTCTCTCTCCCCCATACACCCATCCTCACTGTTAGGCTCCGCAGCACTTCTTCAC[ct]CTCTATGACGTTTCCC
                    GTCATGGTCTCATTTGATACTTGCAATGTCTTTATAAAGGTAAC
58369 I          A  AGGCAGGAGAGGGACACCCAAGGCT
58369 P  A       A  CGCGCCGAGGAAGGGTGACAGGCCY
58369 P  G       A  ATGACGTGGCAGACGAGGGTGACAGGCCY
58369 T  A       A  GAAAGGCCTGTCACCCTTGCCTTGGGTGTCCCTCTCCTGCCTCA
58369 T  G       A  GAAAGGCCTGTCACCCTCGCCTTGGGTGTCCCTCTCCTGCCTCA
58369 tS {ag}       AGAAAACCAGGCCCAATATCCTCTAAAATTAAGCTGAGGCAGGAGAGGGACACCCAAGGC[ag]AGGGTGACAGGCCTT
                    TCTTGTTGGCTGGAGAGCCAGTCTCCGGCCGGATTCTGGTGCCAA                                          MGC3130
58370 I          S  GCCATGGGCATGTTTTCTCTTGCTTGTTTTGTTATATACACTCTA
58370 P  A       S  CGCGCCGAGGTTAAATATTGGTTAACTTTCCTCTCY
58370 P  G       S  ATGACGTGGCAGACCTAAATATTGGTTAACTTTCCTCTCY
58370 T  A       S  GAAGGAGAGGAAAGTTAACCAATATTTAAAGAGTGTATATAACAAAACAAGCAAGAGAAAACATGCCCATGGCTT
58370 T  G       S  GAAGGAGAGGAAAGTTAACCAATATTTAGAGAGTGTATATAACAAAACAAGCAAGAGAAAACATGCCCATGGCTT
58370 tS {ag}       caacaacaatcctctaaaaaaatatgcagaaaggaaggagaggaaagttaaccaatatttt[ag]agagtgtatatacaacaaaacaagcaagagaaaacatgcccatggctctctaca
                    atcctgct
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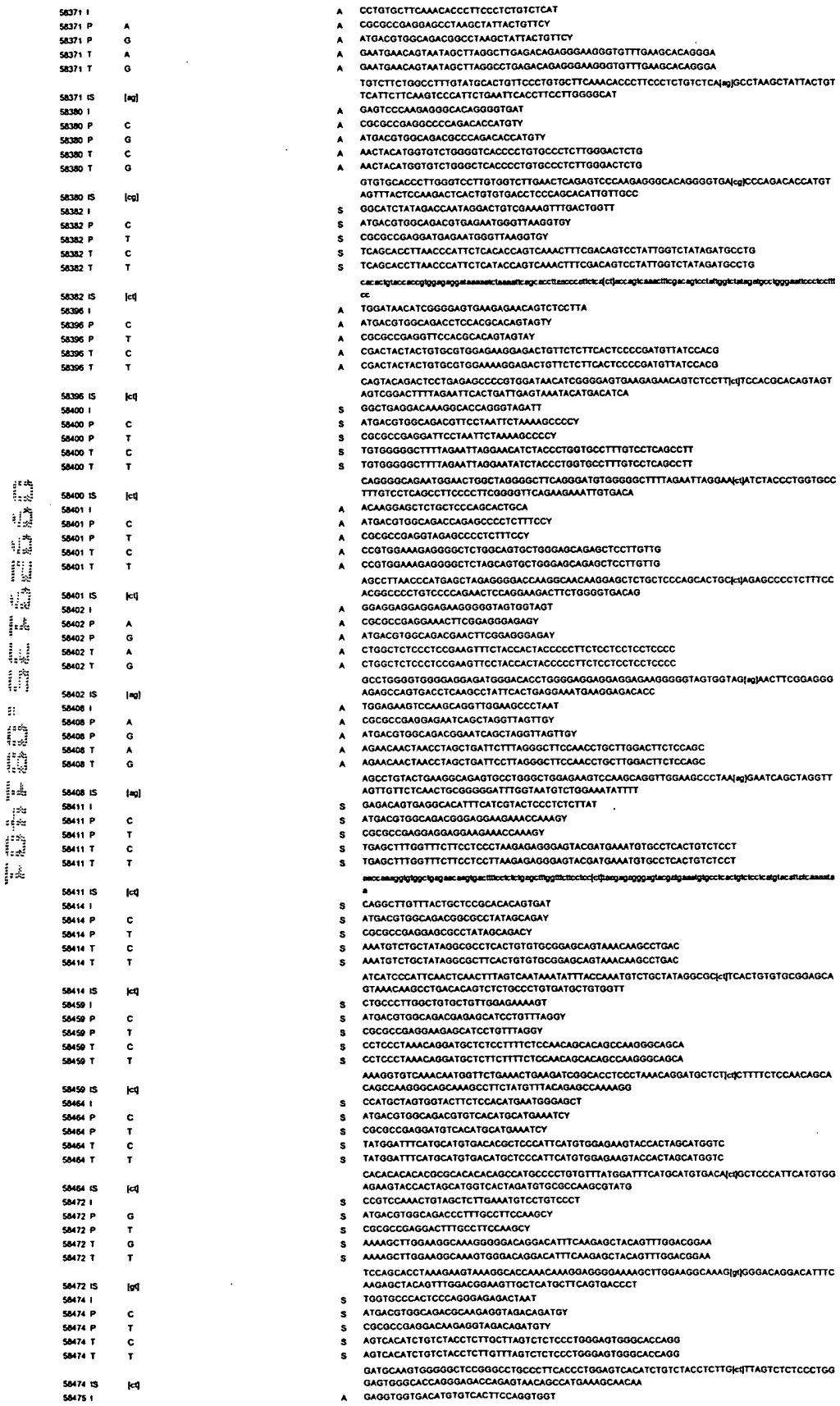

58371 I A CCTGTGCTTCAAACACCCTTCCCTCTGTCTCAT
58371 P A A CGCGCCGAGGAGCCTAAGCTATTACTGTTCY
58371 P G A ATGACGTGGCAGACGGCCTAAGCTATTACTGTTCY
58371 T A A GAATGAACAGTAATAGCTTAGGCTTGAGACAGAGGGAAGGGTGTTTGAAGCACAGGGA
58371 T G A GAATGAACAGTAATAGCTTAGGCCTGAGACAGAGGGAAGGGTGTTTGAAGCACAGGGA
58371 IS [ag] TGTCTTCTGGCCTTTGTATGCACTGTTCCCTGTGCTTCAAACACCCTTCCCTCTGTCTCA[ag]GCCTAAGCTATTACTGT TCATTCTTCAAGTCCCATTCTGAATTCACCTTCCTTGGGGCAT
58380 I A GAGTCCCAAGAGGGCACAGGGGTGAT
58380 P C A CGCGCCGAGGCCCCAGACACCATGTY
58380 P G A ATGACGTGGCAGACGCCCAGACACCATGTY
58380 T C A AACTACATGGTGTCTGGGGTCACCCCTGTGCCCTCTTGGGACTCTG
58380 T G A AACTACATGGTGTCTGGGCTCACCCCTGTGCCCTCTTGGGACTCTG
58380 IS [cg] GTGTGCACCCTTGGGTCCTTGTGGTCTTGAACTCAGAGTCCCAAGAGGGCACAGGGGTGA[cg]CCCAGACACCATGT AGTTTACTCCAAGACTCACTGTGTGACCTCCCAGCACATTGTTGCC
58382 I S GGCATCTATAGACCAATAGGACTGTCGAAAGTTTGACTGGTT
58382 P C S ATGACGTGGCAGACGTGAGAATGGGTTAAGGTGY
58382 P T S CGCGCCGAGGATGAGAATGGGTTAAGGTGY
58382 T C S TCAGCACCTTAACCCATTCTCACACCAGTCAAACTTTCGACAGTCCTATTGGTCTATAGATGCCTG
58382 T T S TCAGCACCTTAACCCATTCTCATACCAGTCAAACTTTCGACAGTCCTATTGGTCTATAGATGCCTG
58382 IS [ct] cacactgtaccaccgtggagaggtaaaaatctaaaatttcagccacctcaccccattctc[ct]accagtcaaactttcgacagtcctattggtctatagatgccttggactaatgtccctcctttcc
58396 I A TGGATAACATCGGGGAGTGAAGAGAACAGTCTCCTTA
58396 P C A ATGACGTGGCAGACCTCCACGCACAGTAGTY
58396 P T A CGCGCCGAGGTTCCACGCACAGTAGTAY
58396 T C A CGACTACTACTGTGCGTGGAGAAGGAGACTGTTCTCTTCACTCCCCGATGTTATCCACG
58396 T T A CGACTACTACTGTGCGTGGAAAAGGAGACTGTTCTCTTCACTCCCCGATGTTATCCACG
58396 IS [ct] CAGTACAGACTCCTGAGAGCCCCGTGGATAACATCGGGGAGTGAAGAGAACAGTCTCCTT[ct]TCCACGCACAGTAGT AGTCGGACTTTTAGAATTCACTGATTGAGTAAATACATGACATCA
58400 I S GGCTGAGGACAAAGGCACCAGGGTAGATT
58400 P C S ATGACGTGGCAGACGTTCCTAATTCTAAAAGCCCCY
58400 P T S CGCGCCGAGGATTCCTAATTCTAAAAGCCCCY
58400 T C S TGTGGGGGCTTTTAGAATTAGGAACATCTACCCTGGTGCCTTTGTCCTCAGCCTT
58400 T T S TGTGGGGGCTTTTAGAATTAGGAATATCTACCCTGGTGCCTTTGTCCTCAGCCTT
58400 IS [ct] CAGGGGCAGAATGGAACTGGCTAGGGGCTTCAGGGATGTGGGGGCTTTTAGAATTAGGAA[ct]ATCTACCCTGGTGCC TTTGTCCTCAGCCTTCCCCTTCGGGGTTCAGAAGAAATTGTGACA
58401 I A ACAAGGAGCTCTGCTCCCAGCACTGCA
58401 P C A ATGACGTGGCAGACCAGAGCCCCTCTTTCCY
58401 P T A CGCGCCGAGGTAGAGCCCCTCTTTCCY
58401 T C A CCGTGGAAAGAGGGGCTCTGGCAGTGCTGGGAGCAGAGCTCCTTGTTG
58401 T T A CCGTGGAAAGAGGGGCTCTAGCAGTGCTGGGAGCAGAGCTCCTTGTTG
58401 IS [ct] AGCCTTAACCCATGAGCTAGAGGGGACCAAGGCAACAAGGAGCTCTGCTCCCAGCACTGC[ct]AGAGCCCCTCTTTCC ACGGCCCCTGTCCCCAGAACTCCAGGAAGACTTCTGGGGTGACAG
58402 I A GGAGGAGGAGGAGAAGGGGGTAGTGGTAGT
58402 P A A CGCGCCGAGGAAACTTCGGAGGGAGAGY
58402 P G A ATGACGTGGCAGACGAACTTCGGAGGGAGAY
58402 T A A CTGGCTCTCCCTCCGAAGTTTCTACCACTACCCCCTTCTCCTCCTCCTCCCC
58402 T G A CTGGCTCTCCCTCCGAAGTTCCTACCACTACCCCCTTCTCCTCCTCCTCCCC
58402 IS [ag] GCCTGGGGTGGGGAGGAGATGGGACACCTGGGGAGGAGGAGGAAGGGGGTAGTGGTAG[ag]AACTTCGGAGGG AGAGCCAGTGACCTCAAGCCTATTCACTGAGGAAATGAAGGAGACACC
58408 I A TGGAGAAGTCCAAGCAGGTTGGAAGCCCTAAT
58408 P A A CGCGCCGAGGAGAATCAGCTAGGTTAGTTGY
58408 P G A ATGACGTGGCAGACGGAATCAGCTAGGTTAGTTGY
58408 T A A AGAACAACTAACCTAGCTGATTCTTTAGGGCTTCCAACCTGCTTGGACTTCTCCAGC
58408 T G A AGAACAACTAACCTAGCTGATTCCTTAGGGCTTCCAACCTGCTTGGACTTCTCCAGC
58408 IS [ag] AGCCTGTACTGAAGGCAGAGTGCCTGGGCTGGAGAAGTCCAAGCAGGTTGGAAGCCCTAA[ag]GAATCAGCTAGGTT AGTTGTTCTCAACTGCGGGGGATTTGGTAATGTCTGGAAATATTTT
58411 I S GAGACAGTGAGGCACATTTCATCGTACTCCCTCTCTTAT
58411 P C S ATGACGTGGCAGACGGGAGGAAGAAACCAAAGY
58411 P T S CGCGCCGAGGAGGAGGAAGAAACCAAAGY
58411 T C S TGAGCTTTGGTTTCTTCCTCCCTAAGAGAGGGAGTACGATGAAATGTGCCTCACTGTCTCCT
58411 T T S TGAGCTTTGGTTTCTTCCTCCTTAAGAGAGGGAGTACGATGAAATGTGCCTCACTGTCTCCT
58411 IS [ct] aacccaaggtgtggctgagaacaagtgactttttcctctctgagcttggttctcctcc[ct]aacgagagggagtacgatgaaatgtgcctcactgtctcctcatgtacatctctcaaaata a
58414 I S CAGGCTTGTTTACTGCTCCGCACACAGTGAT
58414 P C S ATGACGTGGCAGACGGCGCCTATAGCAGAY
58414 P T S CGCGCCGAGGAGCGCCTATAGCAGACY
58414 T C S AAATGTCTGCTATAGGCGCCTCACTGTGTGCGGAGCAGTAAACAAGCCTGAC
58414 T T S AAATGTCTGCTATAGGCGCTTCACTGTGTGCGGAGCAGTAAACAAGCCTGAC
58414 IS [ct] ATCATCCCATTCAACTCAACTTTAGTCAATAAATATTTACCAAATGTCTGCTATAGGCGC[ct]TCACTGTGTGCGGAGCA GTAAACAAGCCTGACACAGTCTCTGCCCTGTGATGCTGTGGTT
58459 I S CTGCCCTTGGCTGTGCTGTTGGAGAAAAGT
58459 P C S ATGACGTGGCAGACGAGAGCATCCTGTTTAGGY
58459 P T S CGCGCCGAGGAAGAGCATCCTGTTTAGGY
58459 T C S CCTCCCTAAACAGGATGCTCTCCTTTTCTCCAACAGCACAGCCAAGGGCAGCA
58459 T T S CCTCCCTAAACAGGATGCTCTTCTTTTCTCCAACAGCACAGCCAAGGGCAGCA
58459 IS [ct] AAAGGTGTCAAACAATGGTTCTGAAACTGAAGATCGGCACCTCCCTAAACAGGATGCTCT[ct]CTTTTCTCCAACAGCA CAGCCAAGGGCAGCAAAGCCTTCTATGTTTACAGAGCCAAAAGG
58464 I S CCATGCTAGTGGTACTTCTCCACATGAATGGGAGCT
58464 P C S ATGACGTGGCAGACGTGTCACATGCATGAAATCY
58464 P T S CGCGCCGAGGATGTCACATGCATGAAATCY
58464 T C S TATGGATTTCATGCATGTGACACGCTCCCATTCATGTGGAGAAGTACCACTAGCATGGTC
58464 T T S TATGGATTTCATGCATGTGACATGCTCCCATTCATGTGGAGAAGTACCACTAGCATGGTC
58464 IS [ct] CACACACACACGCGCACACACAGCCATGCCCCTGTGTTTATGGATTTCATGCATGTGACA[ct]GCTCCCATTCATGTGG AGAAGTACCACTAGCATGGTCACTAGATGTGCGCCAAGCGTATG
58472 I S CCGTCCAAACTGTAGCTCTTGAAATGTCCTGTCCCT
58472 P G S ATGACGTGGCAGACCCTTTGCCTTCCAAGCY
58472 P T S CGCGCCGAGGACTTTGCCTTCCAAGCY
58472 T G S AAAAGCTTGGAAGGCAAAGGGGGACAGGACATTTCAAGAGCTACAGTTTGGACGGAA
58472 T T S AAAAGCTTGGAAGGCAAAGTGGGACAGGACATTTCAAGAGCTACAGTTTGGACGGAA
58472 IS [gt] TCCAGCACCTAAAGAAGTAAAGGCACCAAACAAAGGAGGGGAAAAGCTTGGAAGGCAAAG[gt]GGGACAGGACATTTC AAGAGCTACAGTTTGGACGGAAGTTGCTCATGCTTCAGTGACCCT
58474 I S TGGTGCCCACTCCCAGGGAGAGACTAAT
58474 P C S ATGACGTGGCAGACGCAAGAGGTAGACAGATGY
58474 P T S CGCGCCGAGGACAAGAGGTAGACAGATGTY
58474 T C S AGTCACATCTGTCTACCTCTTGCTTAGTCTCTCCCTGGGAGTGGGCACCAGG
58474 T T S AGTCACATCTGTCTACCTCTTGTTTAGTCTCTCCCTGGGAGTGGGCACCAGG
58474 IS [ct] GATGCAAGTGGGGGCTCCGGGCCTGCCCTTCACCCTGGAGTCACATCTGTCTACCTCTTG[ct]TTAGTCTCTCCCTGG GAGTGGGCACCAGGGAGACCAGAGTAACAGCCATGAAAGCAACAA
58475 I A GAGGTGGTGACATGTGTCACTTCCAGGTGGT

FIGURE 129D

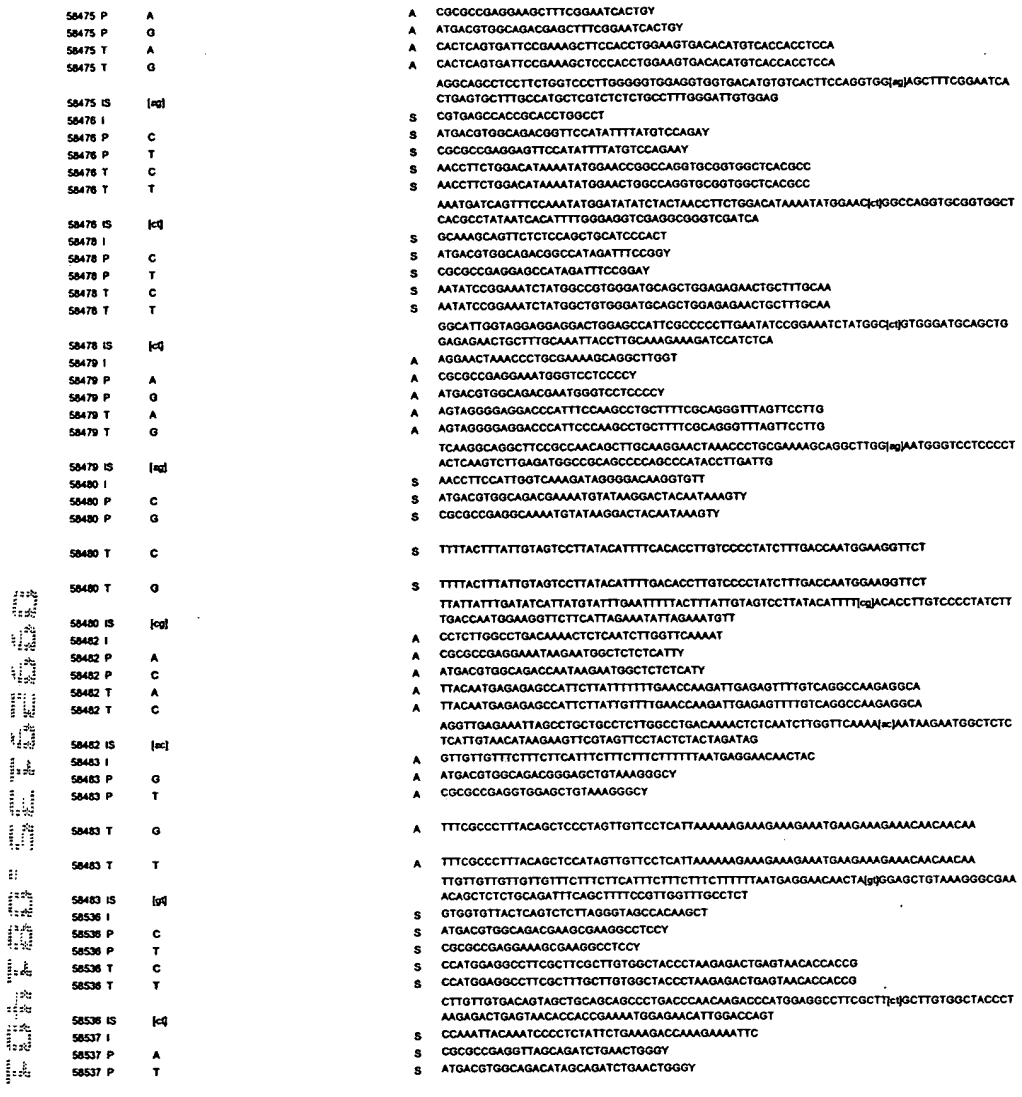
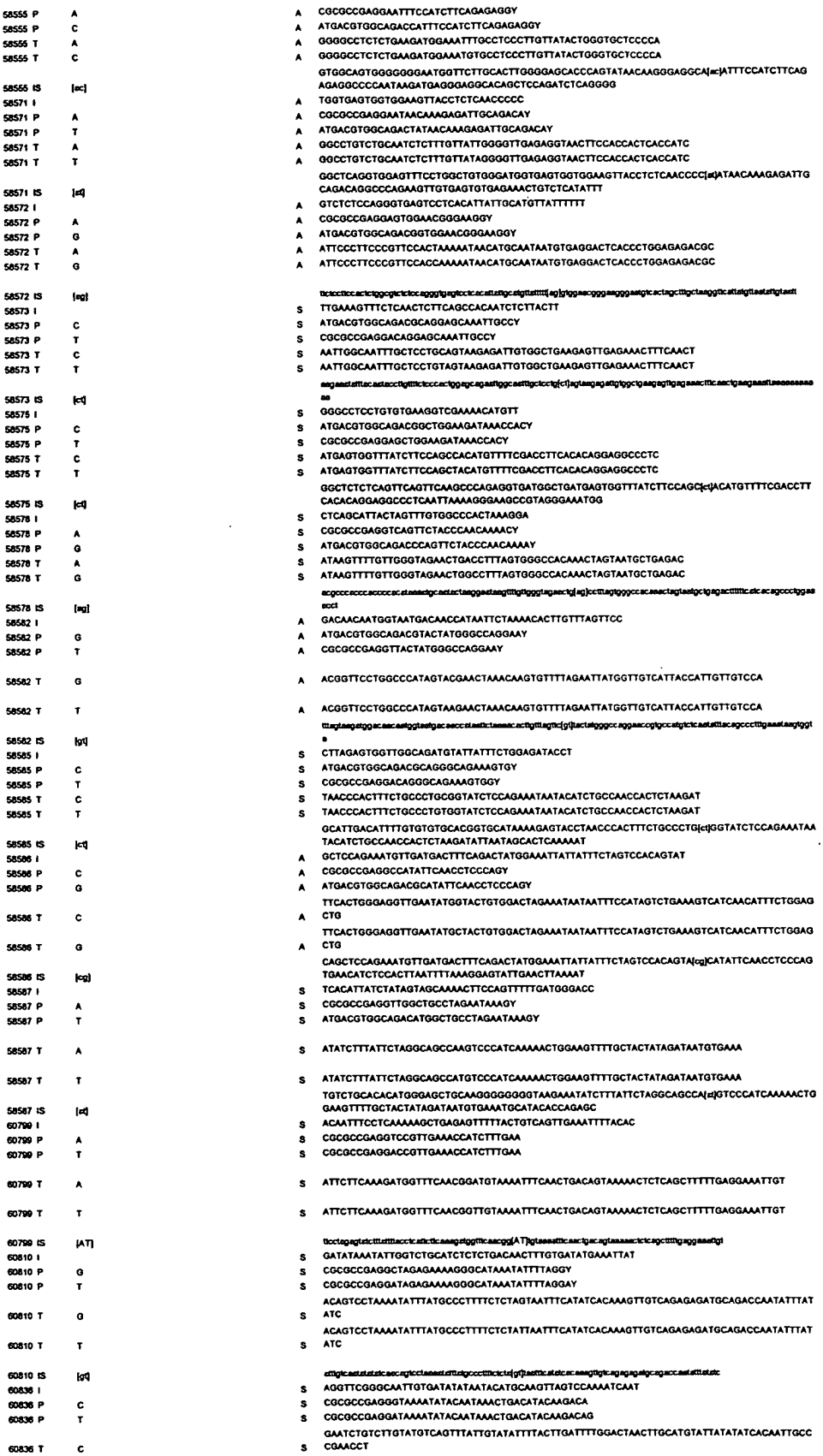

58475 P A A CGCGCCGAGGAAGCTTTCGGAATCACTGY
58475 P G A ATGACGTGGCAGACGAGCTTTCGGAATCACTGY
58475 T A A CACTCAGTGATTCCGAAAGCTTCCACCTGGAAGTGACACATGTCACCACCTCCA
58475 T G A CACTCAGTGATTCCGAAAGCTCCCACCTGGAAGTGACACATGTCACCACCTCCA
AGGCAGCCTCCTTCTGGTCCCTTGGGGGTGGAGGTGGTGACATGTGTCACTTCCAGGTGG[ag]AGCTTTCGGAATCA
58475 tS [ag] CTGAGTGCTTTGCCATGCTCGTCTCTCTGCCTTTGGGATTGTGGAG
58476 I S CGTGAGCCACCGCACCTGGCCT
58476 P C S ATGACGTGGCAGACGGTTCCATATTTTATGTCCAGAY
58476 P T S CGCGCCGAGGAGTTCCATATTTTATGTCCAGAAY
58476 T C S AACCTTCTGGACATAAAATATGGAACCGGCCAGGTGCGGTGGCTCACGCC
58476 T T S AACCTTCTGGACATAAAATATGGAACTGGCCAGGTGCGGTGGCTCACGCC
AAATGATCAGTTTCCAAATATGGATATATCTACTAACCTTCTGGACATAAAATATGGAAC[ct]GGCCAGGTGCGGTGGCT
58476 tS [ct] CACGCCTATAATCACATTTTGGGAGGTCGAGGCGGGTCGATCA
58478 I S GCAAAGCAGTTCTCTCCAGCTGCATCCCACT
58478 P C S ATGACGTGGCAGACGGCCATAGATTTCCGGY
58478 P T S CGCGCCGAGGAGCCATAGATTTCCGGAY
58478 T C S AATATCCGGAAATCTATGGCCGTGGGATGCAGCTGGAGAGAACTGCTTTGCAA
58478 T T S AATATCCGGAAATCTATGGCTGTGGGATGCAGCTGGAGAGAACTGCTTTGCAA
GGCATTGGTAGGAGGAGGACTGGAGCCATTCGCCCCCTTGAATATCCGGAAATCTATGGC[ct]GTGGGATGCAGCTG
58478 tS [ct] GAGAGAACTGCTTTGCAAATTACCTTGCAAAGAAAGATCCATCTCA
58479 I A AGGAACTAAACCCTGCGAAAAGCAGGCTTGGT
58479 P A A CGCGCCGAGGAAATGGGTCCTCCCCY
58479 P G A ATGACGTGGCAGACGAATGGGTCCTCCCCY
58479 T A A AGTAGGGGAGGACCCATTTCCAAGCCTGCTTTTCGCAGGGTTTAGTTCCTTG
58479 T G A AGTAGGGGAGGACCCATTCCCAAGCCTGCTTTTCGCAGGGTTTAGTTCCTTG
TCAAGGCAGGCTTCCGCCAACAGCTTGCAAGGAACTAAACCCTGCGAAAAGCAGGCTTGG[ag]AATGGGTCCTCCCCT
58479 tS [ag] ACTCAAGTCTTGAGATGGCCGCAGCCCCAGCCCATACCTTGATTG
58480 I S AACCTTCCATTGGTCAAAGATAGGGGACAAGGTGTT
58480 P C S ATGACGTGGCAGACGAAAATGTATAAGGACTACAATAAAGTY
58480 P G S CGCGCCGAGGCAAAATGTATAAGGACTACAATAAAGTY
58480 T C S TTTTACTTTATTGTAGTCCTTATACATTTTCACACCTTGTCCCCTATCTTTGACCAATGGAAGGTTCT
58480 T G S TTTTACTTTATTGTAGTCCTTATACATTTTGACACCTTGTCCCCTATCTTTGACCAATGGAAGGTTCT
TTATTATTTGATATCATTATGTATTTGAATTTTTACTTTATTGTAGTCCTTATACATTTT[cg]ACACCTTGTCCCCTATCTT
58480 tS [cg] TGACCAATGGAAGGTTCTTCATTAGAAATATTAGAAATGTT
58482 I A CCTCTTGGCCTGACAAAACTCTCAATCTTGGTTCAAAAT
58482 P A A CGCGCCGAGGAAATAAGAATGGCTCTCTCATTY
58482 P C A ATGACGTGGCAGACCAATAAGAATGGCTCTCTCATY
58482 T A A TTACAATGAGAGAGCCATTCTTATTTTTTTGAACCAAGATTGAGAGTTTTGTCAGGCCAAGAGGCA
58482 T C A TTACAATGAGAGAGCCATTCTTATTGTTTTGAACCAAGATTGAGAGTTTTGTCAGGCCAAGAGGCA
AGGTTGAGAAATTAGCCTGCTGCCTCTTGGCCTGACAAAACTCTCAATCTTGGTTCAAAA[ac]AATAAGAATGGCTCTC
58482 tS [ac] TCATTGTAACATAAGAAGTTCGTAGTTCCTACTCTACTAGATAG
58483 I A GTTGTTGTTTCTTTCTTCATTTCTTTCTTTCTTTTTTAATGAGGAACAACTAC
58483 P G A ATGACGTGGCAGACGGGAGCTGTAAAGGGCY
58483 P T A CGCGCCGAGGTGGAGCTGTAAAGGGCY
58483 T G A TTTCGCCCTTTACAGCTCCCTAGTTGTTCCTCATTAAAAAAGAAAGAAAGAAATGAAGAAAGAAACAACAACAA
58483 T T A TTTCGCCCTTTACAGCTCCATAGTTGTTCCTCATTAAAAAAGAAAGAAAGAAATGAAGAAAGAAACAACAACAA
TTGTTGTTGTTGTTTCTTTCTTCATTTCTTTCTTTCTTTTTTAATGAGGAACAACTA[gt]GGAGCTGTAAAGGGCGAA
58483 tS [gt] ACAGCTCTCTGCAGATTTCAGCTTTTCCGTTGGTTTGCCTCT
58536 I S GTGGTGTTACTCAGTCTCTTAGGGTAGCCACAAGCT
58536 P C S ATGACGTGGCAGACGAAGCGAAGGCCTCCY
58536 P T S CGCGCCGAGGAAAGCGAAGGCCTCCY
58536 T C S CCATGGAAGGCCTTCGCTTCGCTTGTGGCTACCCTAAGAGACTGAGTAACACCACCG
58536 T T S CCATGGAAGGCCTTCGCTTTGCTTGTGGCTACCCTAAGAGACTGAGTAACACCACCG
CTTGTTGTGACAGTAGCTGCAGCAGCCCTGACCCAACAAGACCCATGGAGGCCTTCGCTT[ct]GCTTGTGGCTACCCT
58536 tS [ct] AAGAGACTGAGTAACACCACCGAAAATGGAGAACATTGGACCAGT
58537 I S CCAAATTACAAATCCCCTCTATTCTGAAAGACCAAAGAAAATTC
58537 P A S CGCGCCGAGGTTAGCAGATCTGAACTGGGY
58537 P T S ATGACGTGGCAGACATAGCAGATCTGAACTGGGY
58537 T A S AACTCCCAGTTCAGATCTGCTAAAATTTTCTTTGGTCTTTCAGAATAGAGGGGATTTGTAATTTGGGT
58537 T T S AACTCCCAGTTCAGATCTGCTATAATTTTCTTTGGTCTTTCAGAATAGAGGGGATTTGTAATTTGGGT
AAAAAAAAAATCACCCTAATTCCAAAGACAAAACTCAGAACTCCCAGTTCAGATCTGCTA[at]AATTTTCTTTGGTCTTTC
58537 tS [at] AGAATAGAGGGGATTTGTAATTTGGGTATAGACACTGGAAGT
58540 I A CAAAGCAAGATCACACAGAGAAAAAAAGTCTGAAGAATAATTATAACATTTTT
58540 P A A CGCGCCGAGGAAGCACATATTAAGCACCAY
58540 P G A ATGACGTGGCAGACGAGCACATATTAAGCACCAY
58540 T A A TGCCTGGTGCTTAATATGTGCTTAAAATGTTATAATTATTCTTCAGACTTTTTTTCTCTGTGTGATCTTGCTTTGTC
58540 T G A TGCCTGGTGCTTAATATGTGCTCAAAATGTTATAATTATTCTTCAGACTTTTTTTCTCTGTGTGATCTTGCTTTGTC
TCAGTAGACAAAGCAAGATCACACAGAGAAAAAAAGTCTGAAGAATAATTATAACATTTT[ag]AGCACATATTAAGCACC
58540 tS [ag] AGGCATTGTGATAAATGAGCTTTATACTTTTAAATGTGATATT
58548 I S ACTTGCCCCATAAATTGAAACCTAAGACTGGGACCAAT
58548 P C S ATGACGTGGCAGACGGCAGGATTTTGTATGTTTTCY
58548 P T S CGCGCCGAGGAGCAGGATTTTGTATGTTTTCY
58548 T C S AAAAGAAAACATACAAAATCCTGCCTTGGTCCCAGTCTTAGGTTTCAATTTATGGGGCAAGTCT
58548 T T S AAAAGAAAACATACAAAATCCTGCTTTGGTCCCAGTCTTAGGTTTCAATTTATGGGGCAAGTCT
ATAGAGTAAGATTCCAGTATCCCCCTACCCCCCAAAAAAAGAAAACATACAAAATCCTGC[ct]TTGGTCCCAGTCTTAGG
58548 tS [ct] TTTCAATTTATGGGGCAAGTCTGATTAGTTTTGTTTTCTGAGC
58549 I A TCTCTGAACCTGAGTTTCCTCATCGATAAAAAGTGGT
58549 P A A CGCGCCGAGGATAATCCTACTTTGTAGAGTGTGY
58549 P G A ATGACGTGGCAGACGTAATCCTACTTTGTAGAGTGTY
58549 T A A TTCTCACACTCTACAAAGTAGGATTATCCACTTTTTATCGATGAGGAAACTCAGGTTCAGAGAGA
58549 T G A TTCTCACACTCTACAAAGTAGGATTACCCACTTTTTATCGATGAGGAAACTCAGGTTCAGAGAGA
tgcacataaccaagctgtatcaatctctctgaccctgagttcctcctcgatcaaaaagtggt[ag]taatcctacttttgtagagtgtgagaatttcagagatacccattgcatggcacatgaag
58549 tS [ag] gta
58551 I A CTGACCCAAAGTGGACCCTTTCCTGCCAT
58551 P A A CGCGCCGAGGAGTACTGCCCCCTTCY
58551 P G A ATGACGTGGCAGACGGTACTGCCCCCTTCY
58551 T A A GAGCGAAGGGGGCAGTACTTGGCAGGAAAGGGTCCACTTTGGGTCAGGA
58551 T G A GAGCGAAGGGGGCAGTACCTGGCAGGAAAGGGTCCACTTTGGGTCAGGA
cctcctcagctctcagcccaaatgtcacctcctgacccaaagtggacccttcctgcccc[ag]gtactgccccctcgctctgtgaattttacccacaaatcatgcatggcacacatacag
58551 tS [ag] ccaga
58555 I A GGGAGCACCCAGTATAACAAGGGAGGCAT

FIGURE 129D


58555 P A A CGCGCCGAGGAATTTCCATCTTCAGAGAGGY
58555 P C A ATGACGTGGCAGACCATTTCCATCTTCAGAGAGGY
58555 T A A GGGGCCTCTCTGAAGATGGAAATTTGCCTCCCTTGTTATACTGGGTGCTCCCCA
58555 T C A GGGGCCTCTCTGAAGATGGAAATGTGCCTCCCTTGTTATACTGGGTGCTCCCCA
58566 tS [ac] GTGGCAGTGGGGGGGAATGGTTCTTGCACTTGGGGAGCACCCAGTATAACAAGGGAGGCA[ac]ATTTCCATCTTCAG AGAGGCCCCAATAAGATGAGGGAGGCACAGCTCCAGATCTCAGGGG
58571 I A TGGTGAGTGGTGGAAGTTACCTCTCAACCCCC
58571 P A A CGCGCCGAGGAATAACAAAGAGATTGCAGACAY
58571 P T A ATGACGTGGCAGACTATAACAAAGAGATTGCAGACAY
58571 T A A GGCCTGTCTGCAATCTCTTTGTTATTGGGGTTGAGAGGTAACTTCCACCACTCACCATC
58571 T T A GGCCTGTCTGCAATCTCTTTGTTATAGGGGTTGAGAGGTAACTTCCACCACTCACCATC
58571 tS [ct] GGCTCAGGTGGAGTTTCCTGGCTGTGGGATGGTGAGTGGTGGAAGTTACCTCTCAACCCC[ct]ATAACAAAGAGATTG CAGACAGGCCCAGAAGTTGTGAGTGTGAGAAACTGTCTCATATTT
58572 I A GTCTCTCCAGGGTGAGTCCTCACATTATTGCATGTTATTTTTT
58572 P A A CGCGCCGAGGAGTGGAACGGGAAGGY
58572 P G A ATGACGTGGCAGACGGTGGAACGGGAAGGY
58572 T A A ATTCCCTTCCCGTTCCACTAAAAATAACATGCAATAATGTGAGGACTCACCCTGGAGAGACGC
58572 T G A ATTCCCTTCCCGTTCCACCAAAAATAACATGCAATAATGTGAGGACTCACCCTGGAGAGACGC
58572 tS [ag] tcacctcc.actctggcgctctctcc.agggtgagtcctc.ac.ttatggc.atgttatttttt[ag]gtggaac.gggaagggaatgtc.actagcttgctaaggttc.attatgttaat.attgtaatt
58573 I S TTGAAAGTTTCTCAACTCTTCAGCCACAATCTCTTACTT
58573 P C S ATGACGTGGCAGACGCAGGAGCAAATTGCCY
58573 P T S CGCGCCGAGGACAGGAGCAAATTGCCY
58573 T C S AATTGGCAATTTGCTCCTGCAGTAAGAGATTGTGGCTGAAGAGTTGAGAAACTTTCAACT
58573 T T S AATTGGCAATTTGCTCCTGTAGTAAGAGATTGTGGCTGAAGAGTTGAGAAACTTTCAACT
58573 tS [ct] aagaaatatttac.actacctgtttctccc.actggagc.agaatgggc.aatttgctcctg[ct]agtaagagatgtggctgaagagttgagaaac.ttc.aactgaagaaatttaaaaaaaaaaaa
58575 I S GGGCCTCCTGTGTGAAGGTCGAAAACATGTT
58575 P C S ATGACGTGGCAGACGGCTGGAAGATAAACCACY
58575 P T S CGCGCCGAGGAGCTGGAAGATAAACCACY
58575 T C S ATGAGTGGTTTATCTTCCAGCCACATGTTTTCGACCTTCACACAGGAGGCCCTC
58575 T T S ATGAGTGGTTTATCTTCCAGCTACATGTTTTCGACCTTCACACAGGAGGCCCTC
58575 tS [ct] GGCTCTCTCAGTTCAGTTCAAGCCCAGAGGTGATGGCTGATGAGTGGTTTATCTTCCAGC[ct]ACATGTTTTCGACCTT CACACAGGAGGCCCTCAATTAAAAGGGAAGCCGTAGGGAAATGG
58578 I S CTCAGCATTACTAGTTTGTGGCCCACTAAAGGA
58578 P A S CGCGCCGAGGTCAGTTCTACCCAACAAAACY
58578 P G S ATGACGTGGCAGACCCAGTTCTACCCAACAAAAY
58578 T A S ATAAGTTTTGTTGGGTAGAACTGACCTTTAGTGGGCCACAAACTAGTAATGCTGAGAC
58578 T G S ATAAGTTTTGTTGGGTAGAACTGGCCTTTAGTGGGCCACAAACTAGTAATGCTGAGAC
58578 tS [ag] acgcccacccacccccatcataaaatgcaatactaaggaataagttttgttgggtaqaactg[ag]cctttagtgggccac.aaactagtaatgctgagactttttc.ctc.acagcccttggaa acct
58582 I A GACAACAATGGTAATGACAACCATAATTCTAAAACACTTGTTTAGTTCC
58582 P G A ATGACGTGGCAGACGTACTATGGGCCAGGAAY
58582 P T A CGCGCCGAGGTTACTATGGGCCAGGAAY
58582 T G A ACGGTTCCTGGCCCATAGTACGAACTAAACAAGTGTTTTAGAATTATGGTTGTCATTACCATTGTTGTCCA
58582 T T A ACGGTTCCTGGCCCATAGTAAGAACTAAACAAGTGTTTTAGAATTATGGTTGTCATTACCATTGTTGTCCA
58582 tS [gt] ttcagtaagatggcac.aatcaatggtaatgac.aacc.tcatctc.taaaac.actgttcagttc[gt]tactatgggcc.aggaac.cgtgcc.atgtctc.aatatttcac.agcccttgtgaaatcaagtggt a
58585 I S CTTAGAGTGGTTGGCAGATGTATTATTTCTGGAGATACCT
58585 P C S ATGACGTGGCAGACGCAGGGCAGAAAGTGY
58585 P T S CGCGCCGAGGACAGGGCAGAAAGTGGY
58585 T C S TAACCCACTTTCTGCCCTGCGGTATCTCCAGAAATAATACATCTGCCAACCACTCTAAGAT
58585 T T S TAACCCACTTTCTGCCCTGTGGTATCTCCAGAAATAATACATCTGCCAACCACTCTAAGAT
58585 tS [ct] GCATTGACATTTTGTGTGTGCACGGTGCATAAAAGAGTACCTAACCCACTTTCTGCCCTG[ct]GGTATCTCCAGAAATAA TACATCTGCCAACCACTCTAAGATATTAATAGCACTCAAAAAT
58586 I A GCTCCAGAAATGTTGATGACTTTCAGACTATGGAAATTATTATTTCTAGTCCACAGTAT
58586 P C A CGCGCCGAGGCCATATTCAACCTCCCAGY
58586 P G A ATGACGTGGCAGACGCATATTCAACCTCCCAGY
58586 T C A TTCACTGGGAGGTTGAATATGGTACTGTGGACTAGAAATAATAATTTCCATAGTCTGAAAGTCATCAACATTTCTGGAG CTG
58586 T G A TTCACTGGGAGGTTGAATATGCTACTGTGGACTAGAAATAATAATTTCCATAGTCTGAAAGTCATCAACATTTCTGGAG CTG
58586 tS [cg] CAGCTCCAGAAATGTTGATGACTTTCAGACTATGGAAATTATTATTTCTAGTCCACAGTA[cg]CATATTCAACCTCCCAG TGAACATCTCCACTTAATTTTAAAGGAGTATTGAACTTAAAAT
58587 I S TCACATTATCTATAGTAGCAAAACTTCCAGTTTTTGATGGGACC
58587 P A S CGCGCCGAGGTTGGCTGCCTAGAATAAAGY
58587 P T S ATGACGTGGCAGACATGGCTGCCTAGAATAAAGY
58587 T A S ATATCTTTATTCTAGGCAGCCAAGTCCCATCAAAAACTGGAAGTTTTGCTACTATAGATAATGTGAAA
58587 T T S ATATCTTTATTCTAGGCAGCCATGTCCCATCAAAAACTGGAAGTTTTGCTACTATAGATAATGTGAAA
58587 tS [ct] TGTCTGCACACATGGGAGCTGCAAGGGGGGGGGTAAGAAATATCTTTATTCTAGGCAGCCA[ct]GTCCCATCAAAAACTG GAAGTTTTGCTACTATAGATAATGTGAAATGCATACACCAGAGC
60799 I S ACAATTTCCTCAAAAAGCTGAGAGTTTTTACTGTCAGTTGAAATTTTACAC
60799 P A S CGCGCCGAGGTCCGTTGAAACCATCTTTGAA
60799 P T S CGCGCCGAGGACCGTTGAAACCATCTTTGAA
60799 T A S ATTCTTCAAAGATGGTTTCAACGGATGTAAAATTTCAACTGACAGTAAAAACTCTCAGCTTTTTGAGGAAATTGT
60799 T T S ATTCTTCAAAGATGGTTTCAACGGTTGTAAAATTTCAACTGACAGTAAAAACTCTCAGCTTTTTGAGGAAATTGT
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60810 I S GATATAAATATTGGTCTGCATCTCTCTGACAACTTTGTGATATGAAATTAT
60810 P G S CGCGCCGAGGCTAGAGAAAAGGGCATAAATATTTTAGGY
60810 P T S CGCGCCGAGGATAGAGAAAAGGGCATAAATATTTTAGGAY
60810 T G S ACAGTCCTAAAATATTTATGCCCTTTTCTCTAGTAATTTCATATCACAAAGTTGTCAGAGAGATGCAGACCAATATTTAT ATC
60810 T T S ACAGTCCTAAAATATTTATGCCCTTTTCTCTATTAATTTCATATCACAAAGTTGTCAGAGAGATGCAGACCAATATTTAT ATC
60810 tS [gt] attgtc.aatatatatctc.aac.agtcctaaaaatatttatgccctttctctc[gt]aatttc.atatc.ac.aaagttgtc.agagagatgc.agacc.aatatttatatc
60836 I S AGGTTCGGGCAATTGTGATATATAATACATGCAAGTTAGTCCAAAATCAAT
60836 P C S CGCGCCGAGGGTAAAATATACAATAAACTGACATACAAGACA
60836 P T S CGCGCCGAGGATAAAATATACAATAAACTGACATACAAGACAG
60836 T C S GAATCTGTCTTGTATGTCAGTTTATTGTATATTTTACTTGATTTTGGACTAACTTGCATGTATTATATATCACAATTGCC CGAACCT

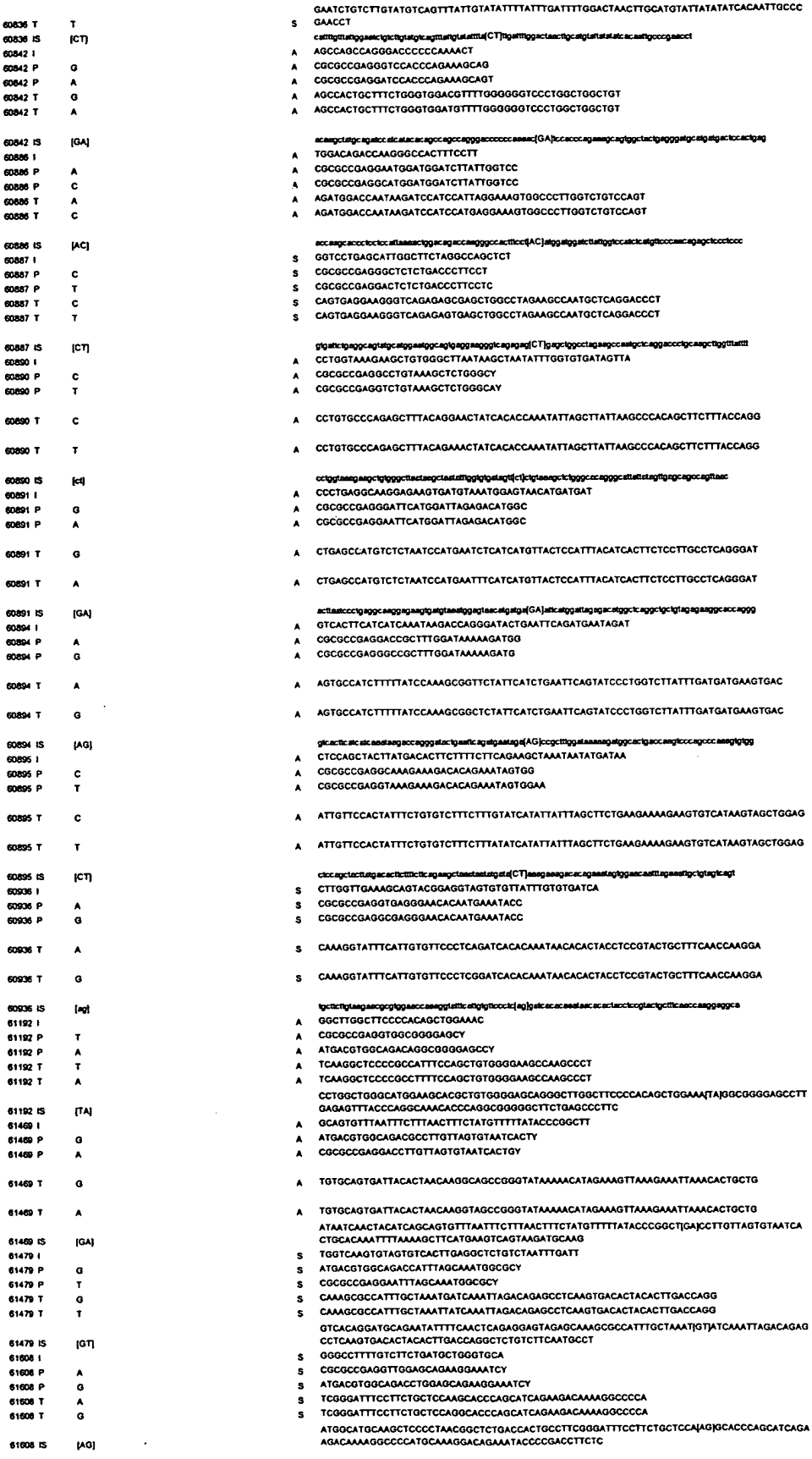
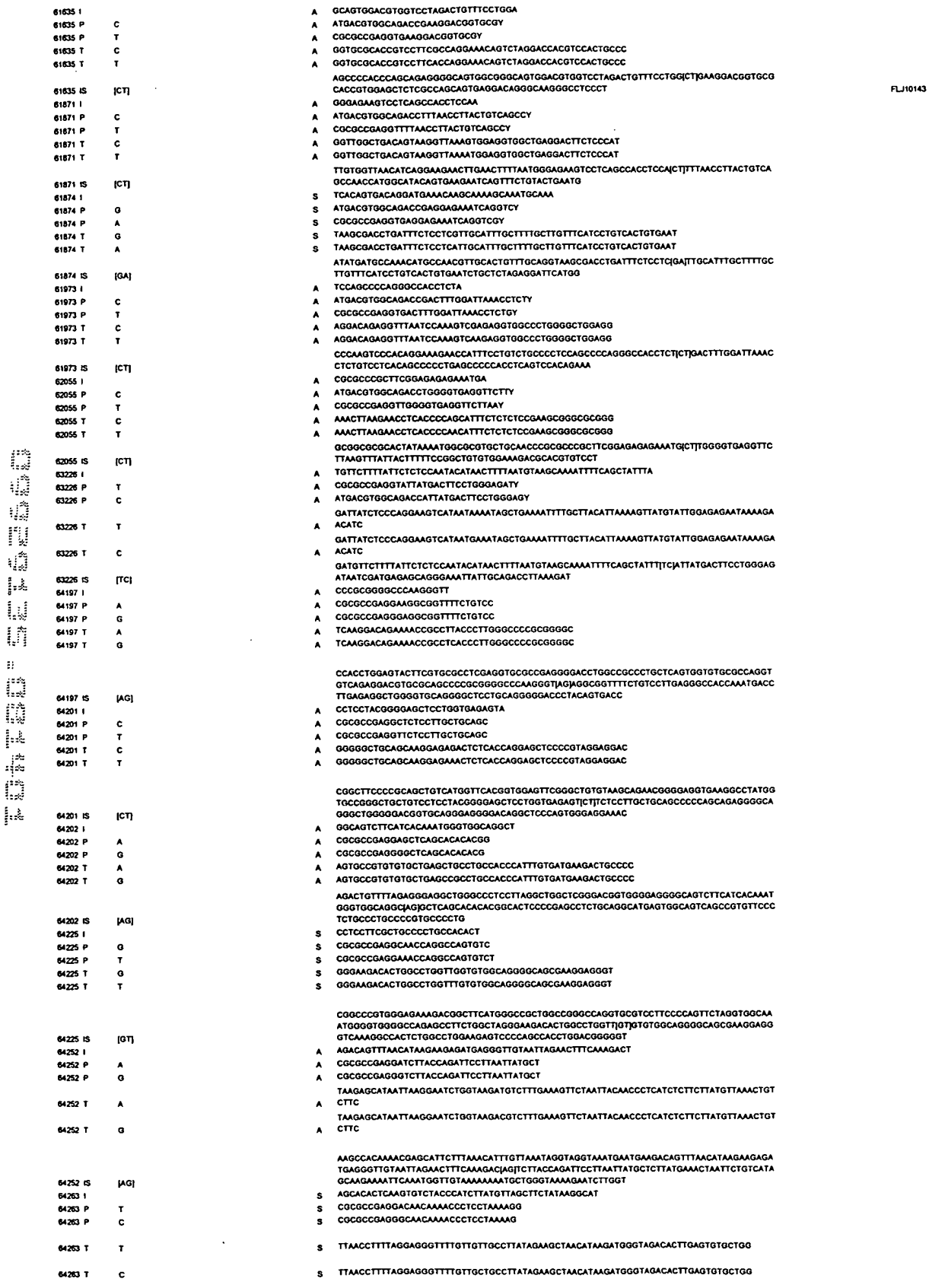

GAATCTGTCTTGTATGTCAGTTTATTGTATATTTTATTTGATTTTGGACTAACTTGCATGTATTATATATCACAATTGCCC
60836 T T S GAACCT
60836 IS [CT]
60842 I A AGCCAGCCAGGGACCCCCCAAAACT
60842 P G A CGCGCCGAGGGTCCACCCAGAAAGCAG
60842 P A A CGCGCCGAGGATCCACCCAGAAAGCAGT
60842 T G A AGCCACTGCTTTCTGGGTGGACGTTTTGGGGGGTCCCTGGCTGGCTGT
60842 T A A AGCCACTGCTTTCTGGGTGGATGTTTTGGGGGGTCCCTGGCTGGCTGT
60842 IS [GA]
60886 I A TGGACAGACCAAGGGCCACTTTCCTT
60886 P A A CGCGCCGAGGAATGGATGGATCTTATTGGTCC
60886 P C A CGCGCCGAGGCATGGATGGATCTTATTGGTCC
60886 T A A AGATGGACCAATAAGATCCATCCATTAGGAAAGTGGCCCTTGGTCTGTCCAGT
60886 T C A AGATGGACCAATAAGATCCATCCATGAGGAAAGTGGCCCTTGGTCTGTCCAGT
60886 IS [AC]
60887 I S GGTCCTGAGCATTGGCTTCTAGGCCAGCTCT
60887 P C S CGCGCCGAGGGCTCTCTGACCCTTCCT
60887 P T S CGCGCCGAGGACTCTCTGACCCTTCCTC
60887 T C S CAGTGAGGAAGGGTCAGAGAGCGAGCTGGCCTAGAAGCCAATGCTCAGGACCCT
60887 T T S CAGTGAGGAAGGGTCAGAGAGTGAGCTGGCCTAGAAGCCAATGCTCAGGACCCT
60887 IS [CT]
60890 I A CCTGGTAAAGAAGCTGTGGGCTTAATAAGCTAATATTTGGTGTGATAGTTA
60890 P C A CGCGCCGAGGCCTGTAAAGCTCTGGGCY
60890 P T A CGCGCCGAGGTCTGTAAAGCTCTGGGCAY
60890 T C A CCTGTGCCCAGAGCTTTACAGGAACTATCACACCAAATATTAGCTTATTAAGCCCACAGCTTCTTTACCAGG
60890 T T A CCTGTGCCCAGAGCTTTACAGAAACTATCACACCAAATATTAGCTTATTAAGCCCACAGCTTCTTTACCAGG
60890 IS [ct]
60891 I A CCCTGAGGCAAGGAGAAGTGATGTAAATGGAGTAACATGATGAT
60891 P G A CGCGCCGAGGGATTCATGGATTAGAGACATGGC
60891 P A A CGCGCCGAGGAATTCATGGATTAGAGACATGGC
60891 T G A CTGAGCCATGTCTCTAATCCATGAATCTCATCATGTTACTCCATTTACATCACTTCTCCTTGCCTCAGGGAT
60891 T A A CTGAGCCATGTCTCTAATCCATGAATTTCATCATGTTACTCCATTTACATCACTTCTCCTTGCCTCAGGGAT
60891 IS [GA]
60894 I A GTCACTTCATCATCAAATAAGACCAGGGATACTGAATTCAGATGAATAGAT
60894 P A A CGCGCCGAGGACCGCTTTGGATAAAAAGATGG
60894 P G A CGCGCCGAGGGCCGCTTTGGATAAAAAGATG
60894 T A A AGTGCCATCTTTTTATCCAAAGCGGTTCTATTCATCTGAATTCAGTATCCCTGGTCTTATTTGATGATGAAGTGAC
60894 T G A AGTGCCATCTTTTTATCCAAAGCGGCTCTATTCATCTGAATTCAGTATCCCTGGTCTTATTTGATGATGAAGTGAC
60894 IS [AG]
60895 I A CTCCAGCTACTTATGACACTTCTTTTCTTCAGAAGCTAAATAATATGATAA
60895 P C A CGCGCCGAGGCAAAGAAAGACACAGAAATAGTGG
60895 P T A CGCGCCGAGGTAAAGAAAGACACAGAAATAGTGGAA
60895 T C A ATTGTTCCACTATTTCTGTGTCTTTCTTTGTATCATATTATTTAGCTTCTGAAGAAAAGAAGTGTCATAAGTAGCTGGAG
60895 T T A ATTGTTCCACTATTTCTGTGTCTTTCTTTATATCATATTATTTAGCTTCTGAAGAAAAGAAGTGTCATAAGTAGCTGGAG
60895 IS [CT]
60936 I S CTTGGTTGAAAGCAGTACGGAGGTAGTGTGTTATTTGTGTGATCA
60936 P A S CGCGCCGAGGTGAGGGAACACAATGAAATACC
60936 P G S CGCGCCGAGGCGAGGGAACACAATGAAATACC
60936 T A S CAAAGGTATTTCATTGTGTTCCCTCAGATCACACAAATAACACACTACCTCCGTACTGCTTTCAACCAAGGA
60936 T G S CAAAGGTATTTCATTGTGTTCCCTCGGATCACACAAATAACACACTACCTCCGTACTGCTTTCAACCAAGGA
60936 IS [ag]
61192 I A GGCTTGGCTTCCCCACAGCTGGAAAC
61192 P T A CGCGCCGAGGTGGCGGGGAGCY
61192 P A A ATGACGTGGCAGACAGGCGGGGAGCCY
61192 T T A TCAAGGCTCCCCGCCATTTCCAGCTGTGGGGAAGCCAAGCCCT
61192 T A A TCAAGGCTCCCCGCCTTTTCCAGCTGTGGGGAAGCCAAGCCCT
61192 IS [TA]
61469 I A GCAGTGTTTAATTTCTTTAACTTTCTATGTTTTTATACCCGGCTT
61469 P G A ATGACGTGGCAGACGCCTTGTTAGTGTAATCACTY
61469 P A A CGCGCCGAGGACCTTGTTAGTGTAATCACTGY
61469 T G A TGTGCAGTGATTACACTAACAAGGCAGCCGGGTATAAAAACATAGAAAGTTAAAGAAATTAAACACTGCTG
61469 T A A TGTGCAGTGATTACACTAACAAGGTAGCCGGGTATAAAAACATAGAAAGTTAAAGAAATTAAACACTGCTG
61469 IS [GA]
61479 I S TGGTCAAGTGTAGTGTCACTTGAGGCTCTGTCTAATTTGATT
61479 P G S ATGACGTGGCAGACCATTTAGCAAATGGCGCY
61479 P T S CGCGCCGAGGAATTTAGCAAATGGCGCY
61479 T G S CAAAGCGCCATTTGCTAAATGATCAAATTAGACAGAGCCTCAAGTGACACTACACTTGACCAGG
61479 T T S CAAAGCGCCATTTGCTAAATTATCAAATTAGACAGAGCCTCAAGTGACACTACACTTGACCAGG
61479 IS [GT]
61608 I S GGGCCTTTTGTCTTCTGATGCTGGGTGCA
61608 P A S CGCGCCGAGGTTGGAGCAGAAGGAAATCY
61608 P G S ATGACGTGGCAGACCTGGAGCAGAAGGAAATCY
61608 T A S TCGGGATTTCCTTCTGCTCCAAGCACCCAGCATCAGAAGACAAAAGGCCCCA
61608 T G S TCGGGATTTCCTTCTGCTCCAGGCACCCAGCATCAGAAGACAAAAGGCCCCA
61608 IS [AG]

FIGURE 129D


61635 I A GCAGTGGACGTGGTCCTAGACTGTTTCCTGGA
61635 P C A ATGACGTGGCAGACCGAAGGACGGTGCGY
61635 P T A CGCGCCGAGGTGAAGGACGGTGCGY
61635 T C A GGTGCGCACCGTCCTTCGCCAGGAAACAGTCTAGGACCACGTCCACTGCCC
61635 T T A GGTGCGCACCGTCCTTCACCAGGAAACAGTCTAGGACCACGTCCACTGCCC
61635 IS [CT] AGCCCCACCCAGCAGAGGGGCAGTGGCGGGCAGTGGACGTGGTCCTAGACTGTTTCCTGG[CT]GAAGGACGGTGCG CACCGTGGAGCTCTCGCCAGCAGTGAGGACAGGGCAAGGGCCTCCCT FLJ10143
61871 I A GGGAGAAGTCCTCAGCCACCTCCAA
61871 P C A ATGACGTGGCAGACCTTTAACCTTACTGTCAGCCY
61871 P T A CGCGCCGAGGTTTTAACCTTACTGTCAGCCY
61871 T C A GGTTGGCTGACAGTAAGGTTAAAGTGGAGGTGGCTGAGGACTTCTCCCAT
61871 T T A GGTTGGCTGACAGTAAGGTTAAAATGGAGGTGGCTGAGGACTTCTCCCAT
61871 IS [CT] TTGTGGTTAACATCAGGAAGAACTTGAACTTTTAATGGGAGAAGTCCTCAGCCACCTCCA[CT]TTTAACCTTACTGTCA GCCAACCATGGCATACAGTGAAGAATCAGTTTCTGTACTGAATG
61874 I S TCACAGTGACAGGATGAAACAAGCAAAAGCAAATGCAAA
61874 P G S ATGACGTGGCAGACCGAGGAGAAATCAGGTCY
61874 P A S CGCGCCGAGGTGAGGAGAAATCAGGTCGY
61874 T G S TAAGCGACCTGATTTCTCCTCGTTGCATTTGCTTTTGCTTGTTTCATCCTGTCACTGTGAAT
61874 T A S TAAGCGACCTGATTTCTCCTCATTGCATTTGCTTTTGCTTGTTTCATCCTGTCACTGTGAAT
61874 IS [GA] ATATGATGCCAAACATGCCAACGTTGCACTGTTTGCAGGTAAGCGACCTGATTTCTCCTC[GA]TTGCATTTGCTTTTGC TTGTTTCATCCTGTCACTGTGAATCTGCTCTAGAGGATTCATGG
61973 I A TCCAGCCCCAGGGCCACCTCTA
61973 P C A ATGACGTGGCAGACCGACTTTGGATTAAACCTCTY
61973 P T A CGCGCCGAGGTGACTTTGGATTAAACCTCTGY
61973 T C A AGGACAGAGGTTTAATCCAAAGTCGAGAGGTGGCCCTGGGGCTGGAGG
61973 T T A AGGACAGAGGTTTAATCCAAAGTCAAGAGGTGGCCCTGGGGCTGGAGG
61973 IS [CT] CCCAAGTCCCACAGGAAAGAACCATTTCCTGTCTGCCCCTCCAGCCCCAGGGCCACCTCT[CT]GACTTTGGATTAAAC CTCTGTCCTCACAGCCCCCTGAGCCCCCACCTCAGTCCACAGAAA
62055 I A CGCGCCCGCTTCGGAGAGAGAAATGA
62055 P C A ATGACGTGGCAGACCTGGGGTGAGGTTCTTY
62055 P T A CGCGCCGAGGTTGGGGTGAGGTTCTTAAY
62055 T C A AAACTTAAGAACCTCACCCCAGCATTTCTCTCTCCGAAGCGGGCGCGGG
62055 T T A AAACTTAAGAACCTCACCCCAACATTTCTCTCTCCGAAGCGGGCGCGGG
62055 IS [CT] GCGGCGCGCACTATAAAATGGCGCGTGCTGCAACCCGCGCCCGCTTCGGAGAGAGAAATG[CT]TGGGGTGAGGTTC TTAAGTTTATTACTTTTTCCGGCTGTGTGGAAAGACGCACGTGTCCT
63226 I A TGTTCTTTTATTCTCTCCAATACATAACTTTTAATGTAAGCAAAATTTTCAGCTATTTA
63226 P T A CGCGCCGAGGTATTATGACTTCCTGGGAGATY
63226 P C A ATGACGTGGCAGACCATTATGACTTCCTGGGAGY
63226 T T A GATTATCTCCCAGGAAGTCATAATAAAATAGCTGAAAATTTTGCTTACATTAAAAGTTATGTATTGGAGAGAATAAAAGA ACATC
63226 T C A GATTATCTCCCAGGAAGTCATAATGAAATAGCTGAAAATTTTGCTTACATTAAAAGTTATGTATTGGAGAGAATAAAAGA ACATC
63226 IS [TC] GATGTTCTTTTATTCTCTCCAATACATAACTTTTAATGTAAGCAAAATTTTCAGCTATTT[TC]ATTATGACTTCCTGGGAG ATAATCGATGAGAGCAGGGAAATTATTGCAGACCTTAAAGAT
64197 I A CCCGCGGGGCCCAAGGGTT
64197 P A A CGCGCCGAGGAAGGCGGTTTTCTGTCC
64197 P G A CGCGCCGAGGGAGGCGGTTTTCTGTCC
64197 T A A TCAAGGACAGAAAACCGCCTTACCCTTGGGCCCCGCGGGGC
64197 T G A TCAAGGACAGAAAACCGCCTCACCCTTGGGCCCCGCGGGGC
64197 IS [AG] CCACCTGGAGTACTTCGTGCGCCTCGAGGTGCGCCGAGGGGACCTGGCCGCCCTGCTCAGTGGTGTGCGCCAGGT GTCAGAGGACGTGCGCAGCCCCGCGGGGCCCAAGGGT[AG]AGGCGGTTTTCTGTCCTTGAGGGCCACCAAATGACC TTGAGAGGCTGGGGTGCAGGGGCTCCTGCAGGGGGACCCTACAGTGACC
64201 I A CCTCCTACGGGGAGCTCCTGGTGAGAGTA
64201 P C A CGCGCCGAGGCTCTCCTTGCTGCAGC
64201 P T A CGCGCCGAGGTTCTCCTTGCTGCAGC
64201 T C A GGGGGCTGCAGCAAGGAGAGACTCTCACCAGGAGCTCCCCGTAGGAGGAC
64201 T T A GGGGGCTGCAGCAAGGAGAAACTCTCACCAGGAGCTCCCCGTAGGAGGAC
64201 IS [CT] CGGCTTCCCCGCAGCTGTCATGGTTCACGGTGGAGTTCGGGCTGTGTAAGCAGAACGGGGAGGTGAAGGCCTATGG TGCCGGGCTGCTGTCCTCCTACGGGGAGCTCCTGGTGAGAGT[CT]TCTCCTTGCTGCAGCCCCCAGCAGAGGGGCA GGGCTGGGGGACGGTGCAGGGAGGGGACAGGCTCCCAGTGGGAGGAAAC
64202 I A GGCAGTCTTCATCACAAATGGGTGGCAGGCT
64202 P A A CGCGCCGAGGAGCTCAGCACACACGG
64202 P G A CGCGCCGAGGGGCTCAGCACACACG
64202 T A A AGTGCCGTGTGTGCTGAGCTGCCTGCCACCCATTTGTGATGAAGACTGCCCC
64202 T G A AGTGCCGTGTGTGCTGAGCCGCCTGCCACCCATTTGTGATGAAGACTGCCCC
64202 IS [AG] AGACTGTTTTAGAGGGAGGCTGGGCCCTCCTTAGGCTGGCTCGGGACGGTGGGGAGGGGCAGTCTTCATCACAAAT GGGTGGCAGGC[AG]GCTCAGCACACACGGCACTCCCCGAGCCTCTGCAGGCATGAGTGGCAGTCAGCCGTGTTCCC TCTGCCCTGCCCCGTGCCCCTG
64225 I S CCTCCTTCGCTGCCCCTGCCACACT
64225 P G S CGCGCCGAGGCAACCAGGCCAGTGTC
64225 P T S CGCGCCGAGGAAACCAGGCCAGTGTCT
64225 T G S GGGAAGACACTGGCCTGGTTGGTGTGGCAGGGGCAGCGAAGGAGGGT
64225 T T S GGGAAGACACTGGCCTGGTTTGTGTGGCAGGGGCAGCGAAGGAGGGT
64225 IS [GT] CGGCCCGTGGGAGAAAGACGGCTTCATGGGCCGCTGGCCGGGCCAGGTGCGTCCTTCCCCAGTTCTAGGTGGCAA ATGGGGTGGGGCCAGAGCCTTCTGGCTAGGGAAGACACTGGCCTGGTT[GT]GTGTGGCAGGGGCAGCGAAGGAGG GTCAAAGGCCACTCTGGCCTGGAAGAGTCCCCAGCCACCTGGACGGGGGT
64252 I A AGACAGTTTAACATAAGAAGAGATGAGGGTTGTAATTAGAACTTTCAAAGACT
64252 P A A CGCGCCGAGGATCTTACCAGATTCCTTAATTATGCT
64252 P G A CGCGCCGAGGGTCTTACCAGATTCCTTAATTATGCT
64252 T A A TAAGAGCATAATTAAGGAATCTGGTAAGATGTCTTTGAAAGTTCTAATTACAACCCTCATCTCTTCTTATGTTAAACTGT CTTC
64252 T G A TAAGAGCATAATTAAGGAATCTGGTAAGACGTCTTTGAAAGTTCTAATTACAACCCTCATCTCTTCTTATGTTAAACTGT CTTC
64252 IS [AG] AAGCCACAAAACGAGCATTCTTTAAACATTTGTTAAATAGGTAGGTAAATGAATGAAGACAGTTTAACATAAGAAGAGA TGAGGGTTGTAATTAGAACTTTCAAAGAC[AG]TCTTACCAGATTCCTTAATTATGCTCTTATGAAACTAATTCTGTCATA GCAAGAAAATTCAAATGGTTGTAAAAAAAATGCTGGGTAAAAGAATCTTGGT
64263 I S AGCACACTCAAGTGTCTACCCATCTTATGTTAGCTTCTATAAGGCAT
64263 P T S CGCGCCGAGGACAACAAAACCCTCCTAAAAGG
64263 P C S CGCGCCGAGGGCAACAAAACCCTCCTAAAAG
64263 T T S TTAACCTTTTAGGAGGGTTTTGTTGTTGCCTTATAGAAGCTAACATAAGATGGGTAGACACTTGAGTGTGCTGG
64263 T C S TTAACCTTTTAGGAGGGTTTTGTTGCTGCCTTATAGAAGCTAACATAAGATGGGTAGACACTTGAGTGTGCTGG

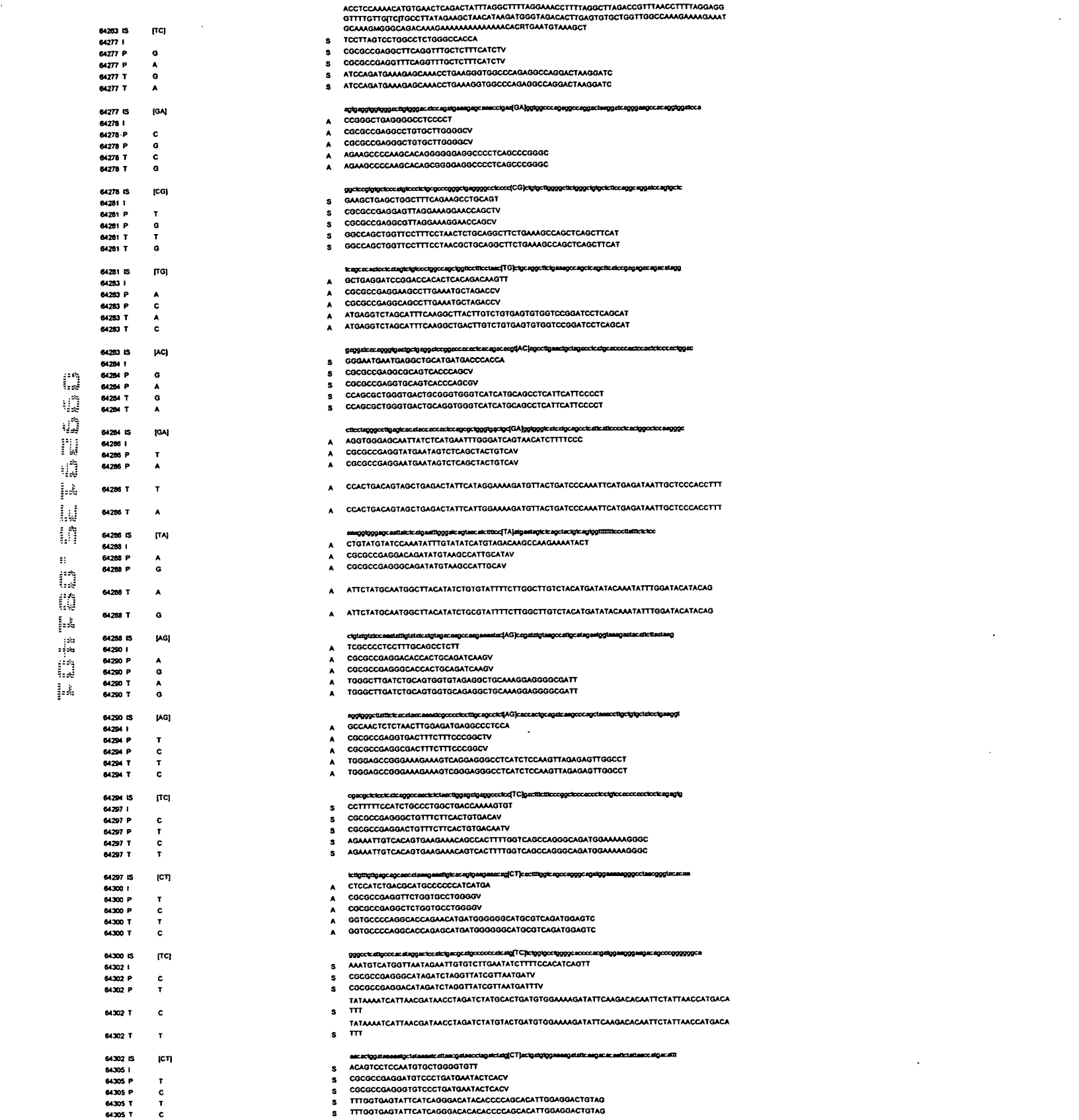

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GCAAAGMGGGCAGACAAAGAAAAAAAAAAAAAAACACRTGAATGTAAAGCT
TCCTTAGTCCTGGCCTCTGGGCCACCA
CGCGCCGAGGCTTCAGGTTTGCTCTTTCATCTV
CGCGCCGAGGTTTCAGGTTTGCTCTTTCATCTV
ATCCAGATGAAAGAGCAAACCTGAAGGGTGGCCCAGAGGCCAGGACTAAGGATC
ATCCAGATGAAAGAGCAAACCTGAAAGGTGGCCCAGAGGCCAGGACTAAGGATC
CCGGGCTGAGGGGCCTCCCCT
CGCGCCGAGGCCTGTGCTTGGGGCV
CGCGCCGAGGGCTGTGCTTGGGGCV
AGAAGCCCCAAGCACAGGGGGGAGGCCCCTCAGCCCGGGC
AGAAGCCCCAAGCACAGCGGGGAGGCCCCTCAGCCCGGGC
GAAGCTGAGCTGGCTTTCAGAAGCCTGCAGT
CGCGCCGAGGAGTTAGGAAAGGAACCAGCTV
CGCGCCGAGGCGTTAGGAAAGGAACCAGCV
GGCCAGCTGGTTCCTTTCCTAACTCTGCAGGCTTCTGAAAGCCAGCTCAGCTTCAT
GGCCAGCTGGTTCCTTTCCTAACGCTGCAGGCTTCTGAAAGCCAGCTCAGCTTCAT
GCTGAGGATCCGGACCACACTCACAGACAAGTT
CGCGCCGAGGAAGCCTTGAAATGCTAGACCV
CGCGCCGAGGCAGCCTTGAAATGCTAGACCV
ATGAGGTCTAGCATTTCAAGGCTTACTTGTCTGTGAGTGTGGTCCGGATCCTCAGCAT
ATGAGGTCTAGCATTTCAAGGCTGACTTGTCTGTGAGTGTGGTCCGGATCCTCAGCAT
GGGAATGAATGAGGCTGCATGATGACCCACCA
CGCGCCGAGGCGCAGTCACCCAGCV
CGCGCCGAGGTGCAGTCACCCAGCGV
CCAGCGCTGGGTGACTGCGGGTGGGTCATCATGCAGCCTCATTCATTCCCCT
CCAGCGCTGGGTGACTGCAGGTGGGTCATCATGCAGCCTCATTCATTCCCCT
AGGTGGGAGCAATTATCTCATGAATTTGGGATCAGTAACATCTTTTCCC
CGCGCCGAGGTATGAATAGTCTCAGCTACTGTCAV
CGCGCCGAGGAATGAATAGTCTCAGCTACTGTCAV
CCACTGACAGTAGCTGAGACTATTCATAGGAAAAGATGTTACTGATCCCAAATTCATGAGATAATTGCTCCCACCTTT
CCACTGACAGTAGCTGAGACTATTCATTGGAAAAGATGTTACTGATCCCAAATTCATGAGATAATTGCTCCCACCTTT
CTGTATGTATCCAAATATTTGTATATCATGTAGACAAGCCAAGAAAATACT
CGCGCCGAGGACAGATATGTAAGCCATTGCATAV
CGCGCCGAGGGCAGATATGTAAGCCATTGCAV
ATTCTATGCAATGGCTTACATATCTGTGTATTTTCTTGGCTTGTCTACATGATATACAAATATTTGGATACATACAG
ATTCTATGCAATGGCTTACATATCTGCGTATTTTCTTGGCTTGTCTACATGATATACAAATATTTGGATACATACAG
TCGCCCCTCCTTTGCAGCCTCTT
CGCGCCGAGGACACCACTGCAGATCAAGV
CGCGCCGAGGGCACCACTGCAGATCAAGV
TGGGCTTGATCTGCAGTGGTGTAGAGGCTGCAAAGGAGGGGCGATT
TGGGCTTGATCTGCAGTGGTGCAGAGGCTGCAAAGGAGGGGCGATT
GCCAACTCTCTAACTTGGAGATGAGGCCCTCCA
CGCGCCGAGGTGACTTTCTTTCCCGGCTV
CGCGCCGAGGCGACTTTCTTTCCCGGCV
TGGGAGCCGGGAAAGAAAGTCAGGAGGGCCTCATCTCCAAGTTAGAGAGTTGGCCT
TGGGAGCCGGGAAAGAAAGTCGGGAGGGCCTCATCTCCAAGTTAGAGAGTTGGCCT
CCTTTTTCCATCTGCCCTGGCTGACCAAAAGTGT
CGCGCCGAGGGCTGTTTCTTCACTGTGACAV
CGCGCCGAGGACTGTTTCTTCACTGTGACAATV
AGAAATTGTCACAGTGAAGAAACAGCCACTTTTGGTCAGCCAGGGCAGATGGAAAAAGGGC
AGAAATTGTCACAGTGAAGAAACAGTCACTTTTGGTCAGCCAGGGCAGATGGAAAAAGGGC
CTCCATCTGACGCATGCCCCCCATCATGA
CGCGCCGAGGTTCTGGTGCCTGGGGV
CGCGCCGAGGCTCTGGTGCCTGGGGV
GGTGCCCCAGGCACCAGAACATGATGGGGGGCATGCGTCAGATGGAGTC
GGTGCCCCAGGCACCAGAGCATGATGGGGGGCATGCGTCAGATGGAGTC
AAATGTCATGGTTAATAGAATTGTGTCTTGAATATCTTTTCCACATCAGTT
CGCGCCGAGGGCATAGATCTAGGTTATCGTTAATGATV
CGCGCCGAGGACATAGATCTAGGTTATCGTTAATGATTTV
TATAAAATCATTAACGATAACCTAGATCTATGCACTGATGTGGAAAAGATATTCAAGACACAATTCTATTAACCATGACA
TTT
TATAAAATCATTAACGATAACCTAGATCTATGTACTGATGTGGAAAAGATATTCAAGACACAATTCTATTAACCATGACA
TTT
ACAGTCCTCCAATGTGCTGGGGTGTT
CGCGCCGAGGATGTCCCTGATGAATACTCACV
CGCGCCGAGGGTGTCCCTGATGAATACTCACV
TTTGGTGAGTATTCATCAGGGACATACACCCCAGCACATTGGAGGACTGTAG
TTTGGTGAGTATTCATCAGGGACACACACCCCAGCACATTGGAGGACTGTAG

FIGURE 129D

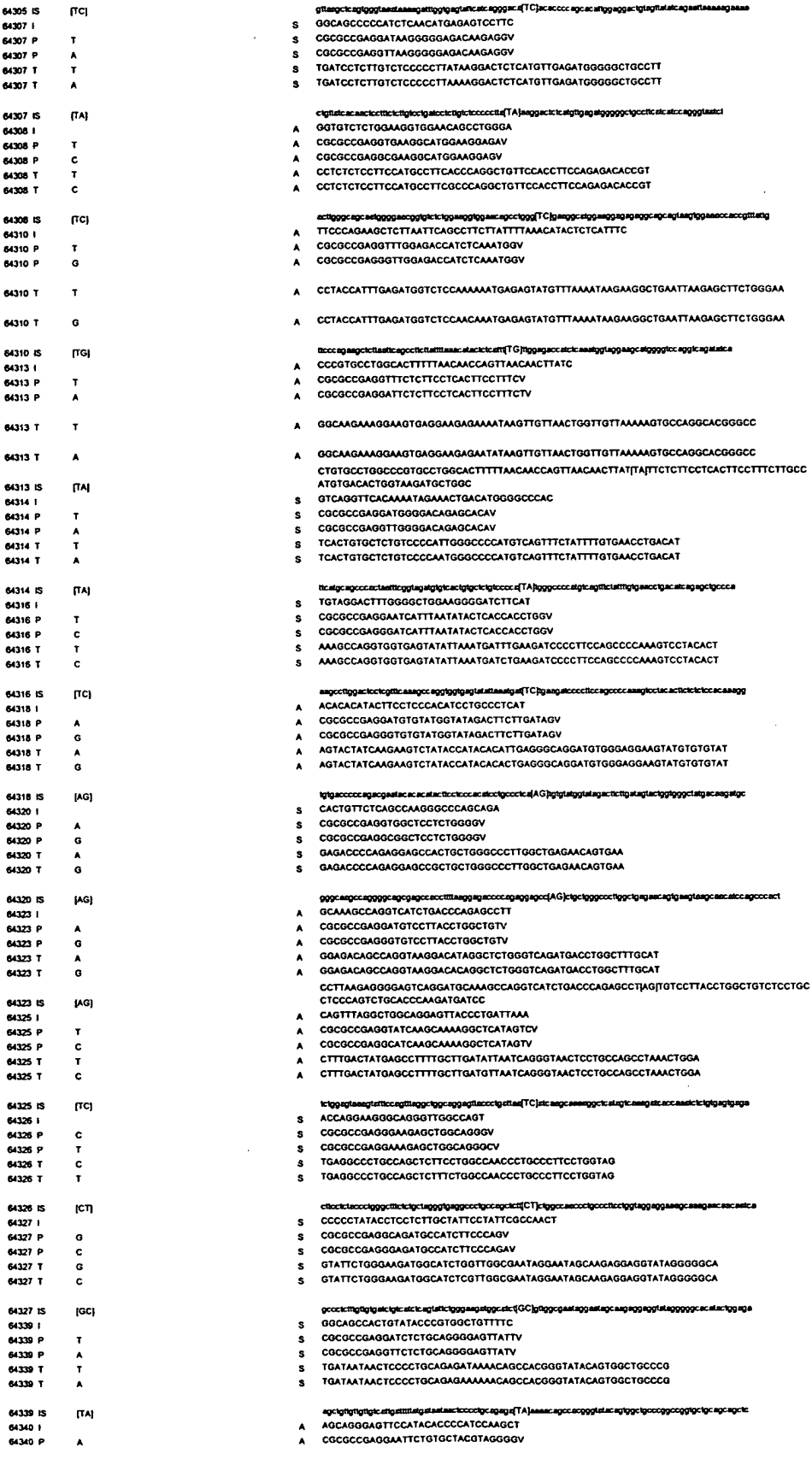


FIGURE 129D

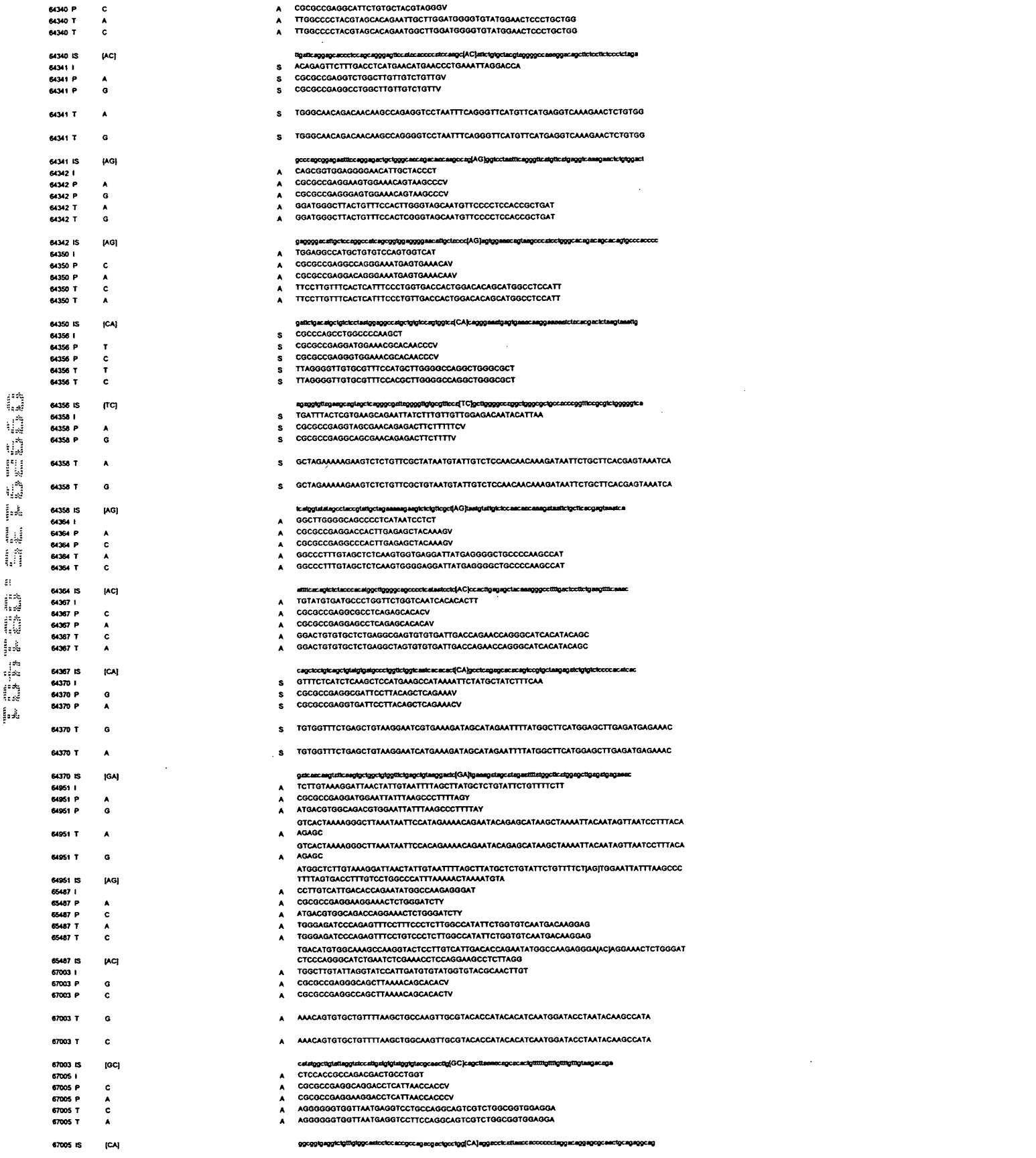
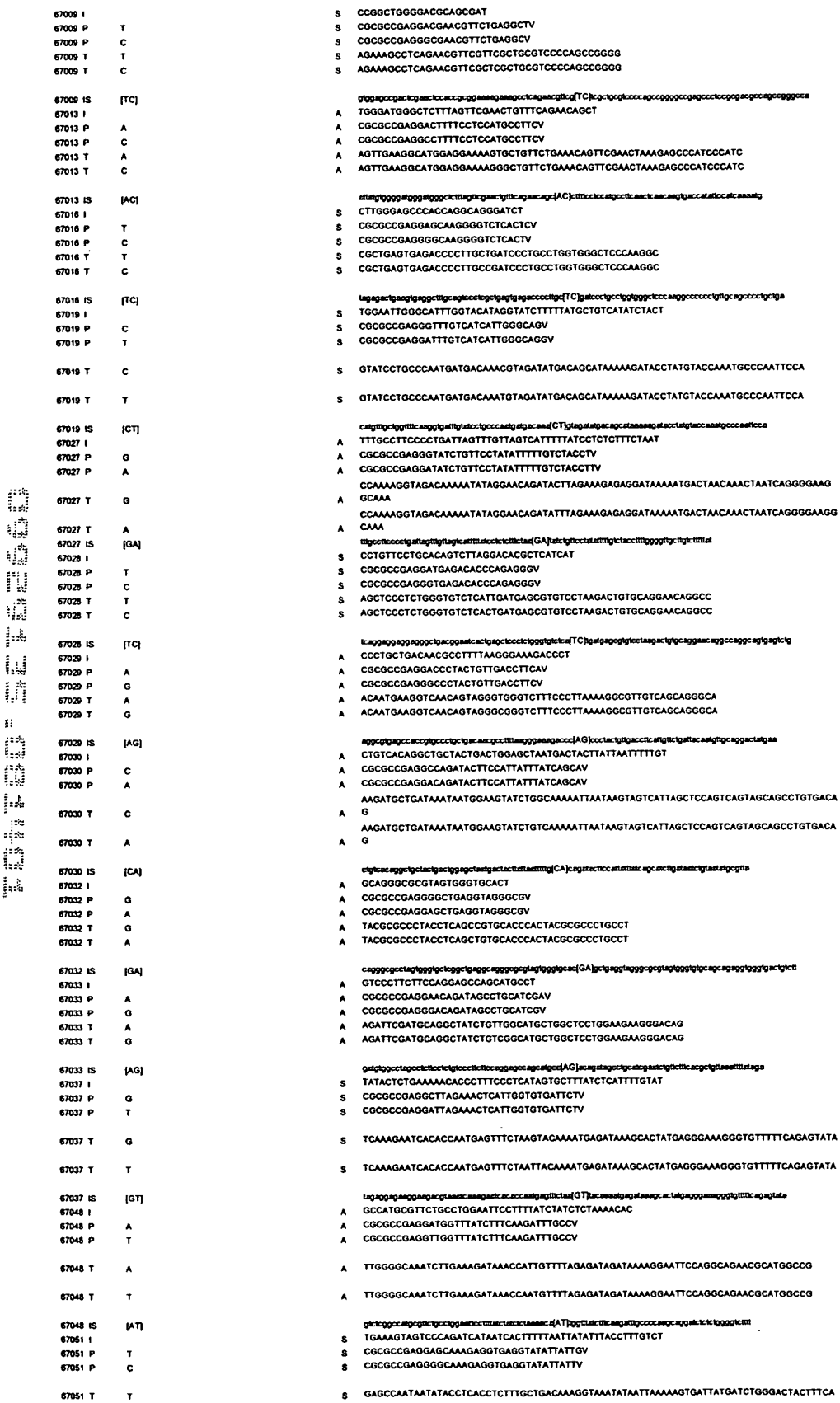

64340 P C A CGCGCCGAGGCATTCTGTGCTACGTAGGGV
64340 T A A TTGGCCCCTACGTAGCACAGAATTGCTTGGATGGGGTGTATGGAACTCCCTGCTGG
64340 T C A TTGGCCCCTACGTAGCACAGAATGGCTTGGATGGGGTGTATGGAACTCCCTGCTGG
64340 IS [AC]
64341 I S ACAGAGTTCTTTGACCTCATGAACATGAACCCTGAAATTAGGACCA
64341 P A S CGCGCCGAGGTCTGGCTTGTTGTCTGTTGV
64341 P G S CGCGCCGAGGCCTGGCTTGTTGTCTGTTV
64341 T A S TGGGCAACAGACAACAAGCCAGAGGTCCTAATTTCAGGGTTCATGTTCATGAGGTCAAAGAACTCTGTGG
64341 T G S TGGGCAACAGACAACAAGCCAGGGGTCCTAATTTCAGGGTTCATGTTCATGAGGTCAAAGAACTCTGTGG
64341 IS [AG]
64342 I A CAGCGGTGGAGGGGAACATTGCTACCCT
64342 P A A CGCGCCGAGGAAGTGGAAACAGTAAGCCCV
64342 P G A CGCGCCGAGGGAGTGGAAACAGTAAGCCCV
64342 T A A GGATGGGCTTACTGTTTCCACTTGGGTAGCAATGTTCCCCTCCACCGCTGAT
64342 T G A GGATGGGCTTACTGTTTCCACTCGGGTAGCAATGTTCCCCTCCACCGCTGAT
64342 IS [AG]
64350 I A TGGAGGCCATGCTGTGTCCAGTGGTCAT
64350 P C A CGCGCCGAGGCCAGGGAAATGAGTGAAACAV
64350 P A A CGCGCCGAGGACAGGGAAATGAGTGAAACAAV
64350 T C A TTCCTTGTTTCACTCATTTCCCTGGTGACCACTGGACACAGCATGGCCTCCATT
64350 T A A TTCCTTGTTTCACTCATTTCCCTGTTGACCACTGGACACAGCATGGCCTCCATT
64350 IS [CA]
64356 I S CGCCCAGCCTGGCCCCAAGCT
64356 P T S CGCGCCGAGGATGGAAACGCACAACCCV
64356 P C S CGCGCCGAGGGTGGAAACGCACAACCCV
64356 T T S TTAGGGGTTGTGCGTTTCCATGCTTGGGGCCAGGCTGGGCGCT
64356 T C S TTAGGGGTTGTGCGTTTCCACGCTTGGGGCCAGGCTGGGCGCT
64356 IS [TC]
64358 I S TGATTTACTCGTGAAGCAGAATTATCTTTGTTGTTGGAGACAATACATTAA
64358 P A S CGCGCCGAGGTAGCGAACAGAGACTTCTTTTTCV
64358 P G S CGCGCCGAGGCAGCGAACAGAGACTTCTTTTV
64358 T A S GCTAGAAAAAGAAGTCTCTGTTCGCTATAATGTATTGTCTCCAACAACAAAGATAATTCTGCTTCACGAGTAAATCA
64358 T G S GCTAGAAAAAGAAGTCTCTGTTCGCTGTAATGTATTGTCTCCAACAACAAAGATAATTCTGCTTCACGAGTAAATCA
64358 IS [AG]
64364 I A GGCTTGGGGCAGCCCCTCATAATCCTCT
64364 P A A CGCGCCGAGGACCACTTGAGAGCTACAAAGV
64364 P C A CGCGCCGAGGCCCACTTGAGAGCTACAAAGV
64364 T A A GGCCCTTTGTAGCTCTCAAGTGGTGAGGATTATGAGGGGCTGCCCCAAGCCAT
64364 T C A GGCCCTTTGTAGCTCTCAAGTGGGGAGGATTATGAGGGGCTGCCCCAAGCCAT
64364 IS [AC]
64367 I A TGTATGTGATGCCCTGGTTCTGGTCAATCACACACTT
64367 P C A CGCGCCGAGGCGCCTCAGAGCACACV
64367 P A A CGCGCCGAGGAGCCTCAGAGCACACAV
64367 T C A GGACTGTGTGCTCTGAGGCGAGTGTGTGATTGACCAGAACCAGGGCATCACATACAGC
64367 T A A GGACTGTGTGCTCTGAGGCTAGTGTGTGATTGACCAGAACCAGGGCATCACATACAGC
64367 IS [CA]
64370 I S GTTTCTCATCTCAAGCTCCATGAAGCCATAAAATTCTATGCTATCTTTCAA
64370 P G S CGCGCCGAGGCGATTCCTTACAGCTCAGAAAV
64370 P A S CGCGCCGAGGTGATTCCTTACAGCTCAGAAACV
64370 T G S TGTGGTTTCTGAGCTGTAAGGAATCGTGAAAGATAGCATAGAATTTTATGGCTTCATGGAGCTTGAGATGAGAAAC
64370 T A S TGTGGTTTCTGAGCTGTAAGGAATCATGAAAGATAGCATAGAATTTTATGGCTTCATGGAGCTTGAGATGAGAAAC
64370 IS [GA]
64951 I A TCTTGTAAAGGATTAACTATTGTAATTTTAGCTTATGCTCTGTATTCTGTTTTCTT
64951 P A A CGCGCCGAGGATGGAATTATTTAAGCCCTTTTAGY
64951 P G A ATGACGTGGCAGACGTGGAATTATTTAAGCCCTTTTAY
64951 T A A GTCACTAAAAGGGCTTAAATAATTCCATAGAAAACAGAATACAGAGCATAAGCTAAAATTACAATAGTTAATCCTTTACA AGAGC
64951 T G A GTCACTAAAAGGGCTTAAATAATTCCACAGAAAACAGAATACAGAGCATAAGCTAAAATTACAATAGTTAATCCTTTACA AGAGC
64951 IS [AG]
65487 I A CCTTGTCATTGACACCAGAATATGGCCAAGAGGGAT
65487 P A A CGCGCCGAGGAAGGAAACTCTGGGATCTY
65487 P C A ATGACGTGGCAGACCAGGAAACTCTGGGATCTY
65487 T A A TGGGAGATCCCAGAGTTTCCTTTCCCTCTTGGCCATATTCTGGTGTCAATGACAAGGAG
65487 T C A TGGGAGATCCCAGAGTTTCCTGTCCCTCTTGGCCATATTCTGGTGTCAATGACAAGGAG
65487 IS [AC]
67003 I A TGGCTTGTATTAGGTATCCATTGATGTGTATGGTGTACGCAACTTGT
67003 P G A CGCGCCGAGGGCAGCTTAAAACAGCACACV
67003 P C A CGCGCCGAGGCCAGCTTAAAACAGCACACTV
67003 T G A AAACAGTGTGCTGTTTTAAGCTGCCAAGTTGCGTACACCATACACATCAATGGATACCTAATACAAGCCATA
67003 T C A AAACAGTGTGCTGTTTTAAGCTGGCAAGTTGCGTACACCATACACATCAATGGATACCTAATACAAGCCATA
67003 IS [GC]
67005 I A CTCCACCGCCAGACGACTGCCTGGT
67005 P C A CGCGCCGAGGCAGGACCTCATTAACCACCV
67005 P A A CGCGCCGAGGAAGGACCTCATTAACCACCV
67005 T C A AGGGGGGTGGTTAATGAGGTCCTGCCAGGCAGTCGTCTGGCGGTGGAGGA
67005 T A A AGGGGGGTGGTTAATGAGGTCCTTCCAGGCAGTCGTCTGGCGGTGGAGGA
67005 IS [CA]

FIGURE 129D


67009 I S CCGGCTGGGGACGCAGCGAT
67009 P T S CGCGCCGAGGACGAACGTTCTGAGGCTV
67009 P C S CGCGCCGAGGGCGAACGTTCTGAGGCV
67009 T T S AGAAAGCCTCAGAACGTTCGTTCGCTGCGTCCCCAGCCGGGG
67009 T C S AGAAAGCCTCAGAACGTTCGCTCGCTGCGTCCCCAGCCGGGG
67009 IS [TC]
67013 I A TGGGATGGGCTCTTTAGTTCGAACTGTTTCAGAACAGCT
67013 P A A CGCGCCGAGGACTTTTCCTCCATGCCTTCV
67013 P C A CGCGCCGAGGCCTTTTCCTCCATGCCTTCV
67013 T A A AGTTGAAGGCATGGAGGAAAAGTGCTGTTCTGAAACAGTTCGAACTAAAGAGCCCATCCCATC
67013 T C A AGTTGAAGGCATGGAGGAAAAGGGCTGTTCTGAAACAGTTCGAACTAAAGAGCCCATCCCATC
67013 IS [AC]
67016 I S CTTGGGAGCCCCACCAGGCAGGGATCT
67016 P T S CGCGCCGAGGAGCAAGGGGTCTCACTCV
67016 P C S CGCGCCGAGGGGCAAGGGGTCTCACTV
67016 T T S CGCTGAGTGAGACCCCTTGCTGATCCCTGCCTGGTGGGCTCCCAAGGC
67016 T C S CGCTGAGTGAGACCCCTTGCCGATCCCTGCCTGGTGGGCTCCCAAGGC
67016 IS [TC]
67019 I S TGGAATTGGGCATTTGGTACATAGGTATCTTTTTATGCTGTCATATCTACT
67019 P C S CGCGCCGAGGGTTTGTCATCATTGGGCAGV
67019 P T S CGCGCCGAGGATTTGTCATCATTGGGCAGGV
67019 T C S GTATCCTGCCCAATGATGACAAACGTAGATATGACAGCATAAAAAGATACCTATGTACCAAATGCCCAATTCCA
67019 T T S GTATCCTGCCCAATGATGACAAATGTAGATATGACAGCATAAAAAGATACCTATGTACCAAATGCCCAATTCCA
67019 IS [CT]
67027 I A TTTGCCTTCCCCTGATTAGTTTGTTAGTCATTTTTATCCTCTCTTTCTAAT
67027 P G A CGCGCCGAGGGTATCTGTTCCTATATTTTTGTCTACCTV
67027 P A A CGCGCCGAGGATATCTGTTCCTATATTTTTGTCTACCTV
67027 T G A CCAAAAGGTAGACAAAAATATAGGAACAGATACTTAGAAAGAGAGGATAAAAATGACTAACAAACTAATCAGGGGAAG GCAAA
67027 T A A CCAAAAGGTAGACAAAAATATAGGAACAGATATTTAGAAAGAGAGGATAAAAATGACTAACAAACTAATCAGGGGAAGG CAAA
67027 IS [GA]
67028 I S CCTGTTCCTGCACAGTCTTAGGACACGCTCATCAT
67028 P T S CGCGCCGAGGATGAGACACCCAGAGGGV
67028 P C S CGCGCCGAGGGTGAGACACCCAGAGGGV
67028 T T S AGCTCCCTCTGGGTGTCTCATTGATGAGCGTGTCCTAAGACTGTGCAGGAACAGGCC
67028 T C S AGCTCCCTCTGGGTGTCTCACTGATGAGCGTGTCCTAAGACTGTGCAGGAACAGGCC
67028 IS [TC]
67029 I A CCCTGCTGACAACGCCTTTTAAGGGAAAGACCCT
67029 P A A CGCGCCGAGGACCCTACTGTTGACCTTCAV
67029 P G A CGCGCCGAGGGCCCTACTGTTGACCTTCV
67029 T A A ACAATGAAGGTCAACAGTAGGGTGGGTCTTTCCCTTAAAAGGCGTTGTCAGCAGGGCA
67029 T G A ACAATGAAGGTCAACAGTAGGGCGGGTCTTTCCCTTAAAAGGCGTTGTCAGCAGGGCA
67029 IS [AG]
67030 I A CTGTCACAGGCTGCTACTGACTGGAGCTAATGACTACTTATTAATTTTTGT
67030 P C A CGCGCCGAGGCCAGATACTTCCATTATTTATCAGCAV
67030 P A A CGCGCCGAGGACAGATACTTCCATTATTTATCAGCAV
67030 T C A AAGATGCTGATAAATAATGGAAGTATCTGGCAAAAATTAATAAGTAGTCATTAGCTCCAGTCAGTAGCAGCCTGTGACA G
67030 T A A AAGATGCTGATAAATAATGGAAGTATCTGTCAAAAATTAATAAGTAGTCATTAGCTCCAGTCAGTAGCAGCCTGTGACA G
67030 IS [CA]
67032 I A GCAGGGCGCGTAGTGGGTGCACT
67032 P G A CGCGCCGAGGGGCTGAGGTAGGGCGV
67032 P A A CGCGCCGAGGAGCTGAGGTAGGGCGV
67032 T G A TACGCGCCCTACCTCAGCCGTGCACCCACTACGCGCCCTGCCT
67032 T A A TACGCGCCCTACCTCAGCTGTGCACCCACTACGCGCCCTGCCT
67032 IS [GA]
67033 I A GTCCCTTCTTCCAGGAGCCAGCATGCCT
67033 P A A CGCGCCGAGGAACAGATAGCCTGCATCGAV
67033 P G A CGCGCCGAGGGACAGATAGCCTGCATCGV
67033 T A A AGATTCGATGCAGGCTATCTGTTGGCATGCTGGCTCCTGGAAGAAGGGACAG
67033 T G A AGATTCGATGCAGGCTATCTGTCGGCATGCTGGCTCCTGGAAGAAGGGACAG
67033 IS [AG]
67037 I S TATACTCTGAAAAACACCCTTTCCCTCATAGTGCTTTATCTCATTTTGTAT
67037 P G S CGCGCCGAGGCTTAGAAACTCATTGGTGTGATTCTV
67037 P T S CGCGCCGAGGATTAGAAACTCATTGGTGTGATTCTV
67037 T G S TCAAAGAATCACACCAATGAGTTTCTAAGTACAAAATGAGATAAAGCACTATGAGGGAAAGGGTGTTTTTCAGAGTATA
67037 T T S TCAAAGAATCACACCAATGAGTTTCTAATTACAAAATGAGATAAAGCACTATGAGGGAAAGGGTGTTTTTCAGAGTATA
67037 IS [GT]
67048 I A GCCATGCGTTCTGCCTGGAATTCCTTTTATCTATCTCTAAAACAC
67048 P A A CGCGCCGAGGATGGTTTATCTTTCAAGATTTGCCV
67048 P T A CGCGCCGAGGTTGGTTTATCTTTCAAGATTTGCCV
67048 T A A TTGGGGCAAATCTTGAAAGATAAACCATTGTTTTAGAGATAGATAAAAGGAATTCCAGGCAGAACGCATGGCCG
67048 T T A TTGGGGCAAATCTTGAAAGATAAACCAATGTTTTAGAGATAGATAAAAGGAATTCCAGGCAGAACGCATGGCCG
67048 IS [AT]
67051 I S TGAAAGTAGTCCCAGATCATAATCACTTTTTAATTATATTTACCTTTGTCT
67051 P T S CGCGCCGAGGAGCAAAGAGGTGAGGTATATTATTGV
67051 P C S CGCGCCGAGGGGCAAAGAGGTGAGGTATATTATTV
67051 T T S GAGCCAATAATATACCTCACCTCTTTGCTGACAAAGGTAAATATAATTAAAAAGTGATTATGATCTGGGACTACTTTCA

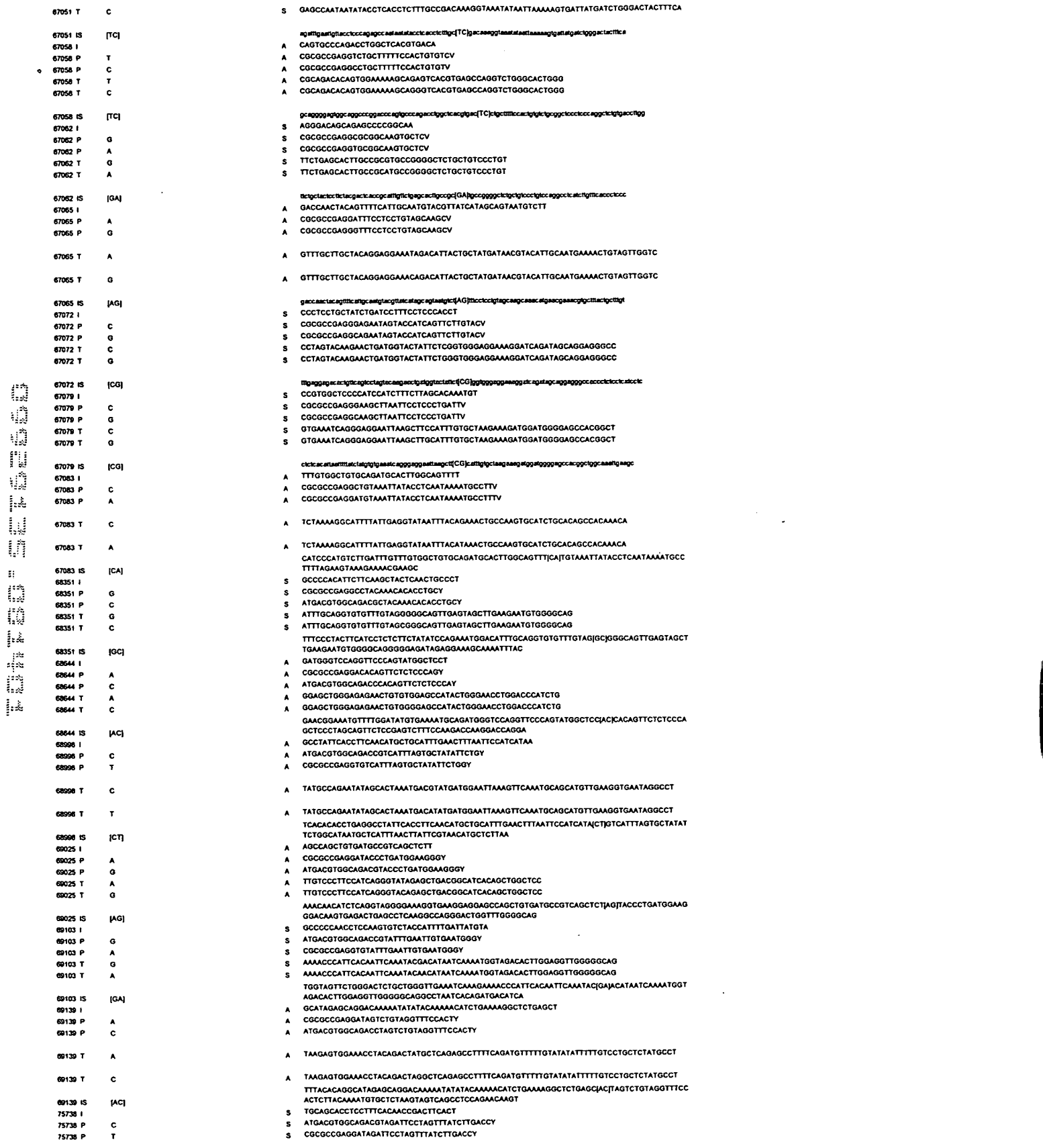

67051 T C S GAGCCAATAATATACCTCACCTCTTTGCCGACAAAGGTAAATATAATTAAAAAGTGATTATGATCTGGGACTACTTTCA
67051 IS [TC]
67058 I A CAGTGCCCAGACCTGGCTCACGTGACA
67058 P T A CGCGCCGAGGTCTGCTTTTTCCACTGTGTCV
67058 P C A CGCGCCGAGGCCTGCTTTTTCCACTGTGTV
67058 T T A CGCAGACACAGTGGAAAAAGCAGAGTCACGTGAGCCAGGTCTGGGCACTGGG
67058 T C A CGCAGACACAGTGGAAAAAGCAGGGTCACGTGAGCCAGGTCTGGGCACTGGG
67058 IS [TC]
67062 I S AGGGACAGCAGAGCCCCGGCAA
67062 P G S CGCGCCGAGGCGCGGCAAGTGCTCV
67062 P A S CGCGCCGAGGTGCGGCAAGTGCTCV
67062 T G S TTCTGAGCACTTGCCGCGTGCCGGGGCTCTGCTGTCCCTGT
67062 T A S TTCTGAGCACTTGCCGCATGCCGGGGCTCTGCTGTCCCTGT
67062 IS [GA]
67065 I A GACCAACTACAGTTTTCATTGCAATGTACGTTATCATAGCAGTAATGTCTT
67065 P A A CGCGCCGAGGATTTCCTCCTGTAGCAAGCV
67065 P G A CGCGCCGAGGGTTTCCTCCTGTAGCAAGCV
67065 T A A GTTTGCTTGCTACAGGAGGAAATAGACATTACTGCTATGATAACGTACATTGCAATGAAAACTGTAGTTGGTC
67065 T G A GTTTGCTTGCTACAGGAGGAAACAGACATTACTGCTATGATAACGTACATTGCAATGAAAACTGTAGTTGGTC
67065 IS [AG]
67072 I S CCCTCCTGCTATCTGATCCTTTCCTCCCACCT
67072 P C S CGCGCCGAGGGAGAATAGTACCATCAGTTCTTGTACV
67072 P G S CGCGCCGAGGCAGAATAGTACCATCAGTTCTTGTACV
67072 T C S CCTAGTACAAGAACTGATGGTACTATTCTCGGTGGGAGGAAAGGATCAGATAGCAGGAGGGCC
67072 T G S CCTAGTACAAGAACTGATGGTACTATTCTGGGTGGGAGGAAAGGATCAGATAGCAGGAGGGCC
67072 IS [CG]
67079 I S CCGTGGCTCCCCATCCATCTTTCTTAGCACAAATGT
67079 P C S CGCGCCGAGGGAAGCTTAATTCCTCCCTGATTV
67079 P G S CGCGCCGAGGCAAGCTTAATTCCTCCCTGATTV
67079 T C S GTGAAATCAGGGAGGAATTAAGCTTCCATTTGTGCTAAGAAAGATGGATGGGGAGCCACGGCT
67079 T G S GTGAAATCAGGGAGGAATTAAGCTTGCATTTGTGCTAAGAAAGATGGATGGGGAGCCACGGCT
67079 IS [CG]
67083 I A TTTGTGGCTGTGCAGATGCACTTGGCAGTTTT
67083 P C A CGCGCCGAGGCTGTAAATTATACCTCAATAAAATGCCTTV
67083 P A A CGCGCCGAGGATGTAAATTATACCTCAATAAAATGCCTTTV
67083 T C A TCTAAAAGGCATTTTATTGAGGTATAATTTACAGAAACTGCCAAGTGCATCTGCACAGCCACAAACA
67083 T A A TCTAAAAGGCATTTTATTGAGGTATAATTTACATAAACTGCCAAGTGCATCTGCACAGCCACAAACA
67083 IS [CA]
68351 I S GCCCCACATTCTTCAAGCTACTCAACTGCCCT
68351 P G S CGCGCCGAGGCCTACAAACACACCTGCY
68351 P C S ATGACGTGGCAGACGCTACAAACACACCTGCY
68351 T G S ATTTGCAGGTGTGTTTGTAGGGGGCAGTTGAGTAGCTTGAAGAATGTGGGGCAG
68351 T C S ATTTGCAGGTGTGTTTGTAGCGGGCAGTTGAGTAGCTTGAAGAATGTGGGGCAG
68351 IS [GC]
68644 I A GATGGGTCCAGGTTCCCAGTATGGCTCCT
68644 P A A CGCGCCGAGGACACAGTTCTCTCCCAGY
68644 P C A ATGACGTGGCAGACCCACAGTTCTCTCCCAY
68644 T A A GGAGCTGGGAGAGAACTGTGTGGAGCCATACTGGGAACCTGGACCCATCTG
68644 T C A GGAGCTGGGAGAGAACTGTGGGGAGCCATACTGGGAACCTGGACCCATCTG
68644 IS [AC]
68998 I A GCCTATTCACCTTCAACATGCTGCATTTGAACTTTAATTCCATCATAA
68998 P C A ATGACGTGGCAGACCGTCATTTAGTGCTATATTCTGY
68998 P T A CGCGCCGAGGTGTCATTTAGTGCTATATTCTGGY
68998 T C A TATGCCAGAATATAGCACTAAATGACGTATGATGGAATTAAAGTTCAAATGCAGCATGTTGAAGGTGAATAGGCCT
68998 T T A TATGCCAGAATATAGCACTAAATGACATATGATGGAATTAAAGTTCAAATGCAGCATGTTGAAGGTGAATAGGCCT
68998 IS [CT]
69025 I A AGCCAGCTGTGATGCCGTCAGCTCTT
69025 P A A CGCGCCGAGGATACCCTGATGGAAGGGY
69025 P G A ATGACGTGGCAGACGTACCCTGATGGAAGGGY
69025 T A A TTGTCCCTTCCATCAGGGTATAGAGCTGACGGCATCACAGCTGGCTCC
69025 T G A TTGTCCCTTCCATCAGGGTACAGAGCTGACGGCATCACAGCTGGCTCC
69025 IS [AG]
69103 I S GCCCCCAACCTCCAAGTGTCTACCATTTTGATTATGTA
69103 P G S ATGACGTGGCAGACCGTATTTGAATTGTGAATGGGY
69103 P A S CGCGCCGAGGTGTATTTGAATTGTGAATGGGY
69103 T G S AAAACCCATTCACAATTCAAATACGACATAATCAAAATGGTAGACACTTGGAGGTTGGGGGCAG
69103 T A S AAAACCCATTCACAATTCAAATACAACATAATCAAAATGGTAGACACTTGGAGGTTGGGGGCAG
69103 IS [GA]
69139 I A GCATAGAGCAGGACAAAAATATATACAAAAACATCTGAAAAGGCTCTGAGCT
69139 P A A CGCGCCGAGGATAGTCTGTAGGTTTCCACTY
69139 P C A ATGACGTGGCAGACCTAGTCTGTAGGTTTCCACTY
69139 T A A TAAGAGTGGAAACCTACAGACTATGCTCAGAGCCTTTTCAGATGTTTTTGTATATATTTTTGTCCTGCTCTATGCCT
69139 T C A TAAGAGTGGAAACCTACAGACTAGGCTCAGAGCCTTTTCAGATGTTTTTGTATATATTTTTGTCCTGCTCTATGCCT
69139 IS [AC]
75738 I S TGCAGCACCTCCTTTCACAACCGACTTCACT
75738 P C S ATGACGTGGCAGACGTAGATTCCTAGTTTATCTTGACCY
75738 P T S CGCGCCGAGGATAGATTCCTAGTTTATCTTGACCY

FIGURE 129D

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75738 T   C     S  TGCTGGTCAAGATAAACTAGGAATCTACGTGAAGTCGGTTGTGAAAGGAGGTGCTGCAGA
75738 T   T     S  TGCTGGTCAAGATAAACTAGGAATCTATGTGAAGTCGGTTGTGAAAGGAGGTGCTGCAGA
                    ATGCAGTGTTTTCGCCTTGTTTTTGCAATAGGGTGCTGGTCAAGATAAACTAGGAATCTA[CT]GTGAAGTCGGTTGTG
75738 IS  [CT]      AAAGGAGGTGCTGCAGATGTGGTCAGTATCATTTTGAAAGAAGTA
75762 I           S  GCTGAAGCAGCAGAAGAAAGGTAGGAACAAAGAACTGATTT
75762 P   G       S  CGCGCCGAGGCATGACCTTGGGACTAAGY
75762 P   C       S  ATGACGTGGCAGACGATGACCTTGGGACTAAGY
75762 T   G       S  GCAGCTTAGTCCCAAGGTCATGAATCAGTTCTTTGTTCCTACCTTTCTTCTGCTGCTTCAGCTG
75762 T   C       S  GCAGCTTAGTCCCAAGGTCATCAATCAGTTCTTTGTTCCTACCTTTCTTCTGCTGCTTCAGCTG
                    CTTCCCACACCACGTGACACAGTCCTTATGCTGGAATTGGCAGCTTAGTCCCAAGGTCAT[GC]AATCAGTTCTTTGTT
75762 IS  [GC]      CCTACCTTTCTTCTGCTGCTTCAGCTGCTTCTGCTTTTTCTTCTT
75774 I           S  GACTGTCTTATATATGTATTGAGAACATGTCCTTTGTATTACTTGAGAAACATT
75774 P   T       S  CGCGCCGAGGACAGTCAGAATTGTTTGACAY
75774 P   G       S  ATGACGTGGCAGACCCAGTCAGAATTGTTTGACAY

75774 T   T       S  TATATGTCAAACAATTCTGACTGTATGTTTCTCAAGTAATACAAAGGACATGTTCTCAATACATATATAAGACAGTCAC

75774 T   G       S  TATATGTCAAACAATTCTGACTGGATGTTTCTCAAGTAATACAAAGGACATGTTCTCAATACATATATAAGACAGTCAC
                    CTAGTTTTGTTCAAAGAGCAGATCCAAGGGTGTAGGCTATATGTCAAACAATTCTGACTG[TG]ATGTTTCTCAAGTAAT
75774 IS  [TG]      ACAAAGGACATGTTCTCAATACATATATAAGACAGTCACCATTC
75872 I           S  ACGTTAGTCAATCTGCAAAAAAATTATTTTGTTTAATGACTACCTATCAAATGTATTATC
75872 P   A       S  CGCGCCGAGGTAGGTTGCAGAGCTTGGY
75872 P   C       S  ATGACGTGGCAGACGAGGTTGCAGAGCTTGY
                    CTTACCAAGCTCTGCAACCTAATAATACATTTGATAGGTAGTCATTAAACAAAATAATTTTTTTTGCAGATTGACTAACGT
75872 T   A       S  T
                    CTTACCAAGCTCTGCAACCTCATAATACATTTGATAGGTAGTCATTAAACAAAATAATTTTTTTGCAGATTGACTAACGT
75872 T   C       S  T
                    TTTATATCTCATAATACATTCTTCCCCTTTTTTCCCTTTGCTTACCAAGCTCTGCAACCT[AC]ATAATACATTTGATAGGT
75872 IS  [AC]      AGTCATTAAACAAAATAATTTTTTTGCAGATTGACTAACGTT
75908 I           A  CAGCCGCTGACCACCTCTCCAACAGAAT
75908 P   G       A  ATGACGTGGCAGACGCCTAGTCCTGTTCAGAY
75908 P   A       A  CGCGCCGAGGACCTAGTCCTGTTCAGAGY
75908 T   G       A  GCTGCTCTGAACAGGACTAGGCTTCTGTTGGAGAGGTGGTCAGCGGCTGCT
75908 T   A       A  GCTGCTCTGAACAGGACTAGGTTTCTGTTGGAGAGGTGGTCAGCGGCTGCT
                    AGCCATGGGTGAGGCAGCTTGTGACCTGCCTAGCAGCCGCTGACCACCTCTCCAACAGAA[GA]CCTAGTCCTGTTCA
75908 IS  [GA]      GAGCAGCACTGTCACTGCAAGTCCAGCCCCCTTTGCCAGGGGCTCC                                    FLJ20511
75912 I           A  GAGGCATATCGGGCACGGTGTTAAATATCTGCAAACT
75912 P   G       A  ATGACGTGGCAGACGAAGTTTCACAACAAGGTTACY
75912 P   A       A  CGCGCCGAGGAAAGTTTCACAACAAGGTTACY
75912 T   G       A  GTGAGTAACCTTGTTGTGAAACTTCGTTTGCAGATATTTAACACCGTGCCCGATATGCCTCTC
75912 T   A       A  GTGAGTAACCTTGTTGTGAAACTTTGTTTGCAGATATTTAACACCGTGCCCGATATGCCTCTC
                    ACAGGTGCAGCTGGGCATTGGTGAGAGGCATATCGGGCACGGTGTTAAATATCTGCAAAC[GA]AAGTTTCACAACAAG
75912 IS  [GA]      GTTACTCACATCTGTGGACTGGGAAGAAAACAGGCCTGAAGCAGT
76056 I           S  ACCGTTGGCAGCAAACAATTGACATTCACGTTAAAGAT
76056 P   C       S  ATGACGTGGCAGACGGGTGAGTTGTCTTTTATTGTY
76056 P   G       S  CGCGCCGAGGCGGTGAGTTGTCTTTTATTGY
76056 T   C       S  AATAACAATAAAAGACAACTCACCCTCTTTAACGTGAATGTCAATTGTTTGCTGCCAACGGTGG
76056 T   G       S  AATAACAATAAAAGACAACTCACCGTCTTTAACGTGAATGTCAATTGTTTGCTGCCAACGGTGG
                    ACTATTGAAAGGCTATTTTTCTTTTGTGAATTAAAAAATAACAATAAAAGACAACTCACC[CG]TCTTTAACGTGAATGTC
76056 IS  [CG]      AATTGTTTGCTGCCAACGGTGGTGTCGGATACACTCAATGTCC
76113 I           A  TCCTTGATCCCTCCTTGGCCAGGCCT
76113 P   G       A  ATGACGTGGCAGACGTCCTGCGATGTGCY
76113 P   A       A  CGCGCCGAGGATCCTGCGATGTGCTY
76113 T   G       A  CACCAGCACATCGCAGGACGGCCTGGCCAAGGAGGGATCAAGGATG
76113 T   A       A  CACCAGCACATCGCAGGATGGCCTGGCCAAGGAGGGATCAAGGATG
                    GTGTAGGCCAGGTGGCTCCCTCAACTCACCAGCCATCCTTGATCCCTCCTTGGCCAGGCC[GA]TCCTGCGATGTGCT
76113 IS  [GA]      GGTGGAAAGGGGGCCGATGGCCTGTTTAAACCCACCTGTGATGGAT
76177 I           S  AGGAATGAAAATACAAGAGGTCATGCAGGGAGGCTT
76177 P   T       S  CGCGCCGAGGAGGTAAATATAAGGGTGATATGATTY
76177 P   C       S  ATGACGTGGCAGACGGGTAAATATAAGGGTGATATGAY
76177 T   T       S  AACAAATCATATCACCCTTATATTTACCTAGCCTCCCTGCATGACCTCTTGTATTTTCATTCCTTC
76177 T   C       S  AACAAATCATATCACCCTTATATTTACCCAGCCTCCCTGCATGACCTCTTGTATTTTCATTCCTTC
                    AGGGCTCTTTGCACGGGCCCTGAGCCACGCTTAACAAATCATATCACCCTTATATTTACC[TC]AGCCTCCCTGCATGA
76177 IS  [TC]      CCTCTTGTATTTTCATTCCTTCACCTAACAAATGCTGTATTGAGT
76244 I           A  GCAGAGTCCACAGAAGTATGCATATGAATGAATCAGGATACTGACTT
76244 P   G       A  ATGACGTGGCAGACGGTTTCTAACCAACACTTTTCY
76244 P   A       A  CGCGCCGAGGAGTTTCTAACCAACACTTTTCY

76244 T   G       A  TAAGGAAAAGTGTTGGTTAGAAACCAGTCAGTATCCTGATTCATTCATATGCATACTTCTGTGGACTCTGCTG

76244 T   A       A  TAAGGAAAAGTGTTGGTTAGAAACTAGTCAGTATCCTGATTCATTCATATGCATACTTCTGTGGACTCTGCTG
                    AGGATTACTTTCCAGCAGAGTCCACAGAAGTATGCATATGAATGAATCAGGATACTGACT[GA]GTTTCTAACCAACACT
76244 IS  [GA]      TTTCCTTAGTACTGTTTAGTCTGTCTCCAACAATTTGTTGACCA
76310 I           A  GCTGAGGGCTCTGCCCCACTTACATTCTTTC
76310 P   T       A  CGCGCCGAGGTCCTCTTCTATATGATGCATTAAAY
76310 P   A       A  ATGACGTGGCAGACACCTCTTCTATATGATGCATTAAAY
76310 T   T       A  ATATTTTAATGCATCATATAGAAGAGGAAAAGAATGTAAGTGGGGCAGAGCCCTCAGCAT
76310 T   A       A  ATATTTTAATGCATCATATAGAAGAGGTAAAGAATGTAAGTGGGGCAGAGCCCTCAGCAT
                    TGTCCCAACATGCTGTGCTATTTGTAACATGCTGAGGGCTCTGCCCCACTTACATTCTTT[TA]CCTCTTCTATATGATG
76310 IS  [TA]      CATTAAAATATTTTGTGATCCATAACGAGTCTGATTTGTTAAAT
76341 I           S  AGAAAGGAAGAGATGTGGACACAAAGCAAATTTCGA
76341 P   A       S  CGCGCCGAGGTTGAGGTCTCTGGTTCTTY
76341 P   G       S  ATGACGTGGCAGACCTGAGGTCTCTGGTTCTTY
76341 T   A       S  AAAGAAGAACCAGAGACCTCAACGAAATTTGCTTTGTGTCCACATCTCTTCCTTTCTAC
76341 T   G       S  AAAGAAGAACCAGAGACCTCAGCGAAATTTGCTTTGTGTCCACATCTCTTCCTTTCTAC
                    TTTTATTTTCACTGGAACAAAATTTGGTTTTTGTTTTATAAAGAAGAACCAGAGACCTCA[AG]CGAAATTTGCTTTGTGT
76341 IS  [AG]      CCACATCTCTTCCTTTCTACAGATGTTAAAACATGGCCGTGCT
76419 I           S  GCAACCATCGTTTACTCTTTTATATAAACACGAATCTGTTTTTGGCCTGATAATC
76419 P   A       S  CGCGCCGAGGTACAGCTGGGTAGATCTAGY
76419 P   T       S  ATGACGTGGCAGACAACAGCTGGGTAGATCTAGY

76419 T   A       S  ATTACTAGATCTACCCAGCTGTAATTATCAGGCCAAAAACAGATTCGTGTTTATATAAAAGAGTAAACGATGGTTGCAA

76419 T   T       S  ATTACTAGATCTACCCAGCTGTTATTATCAGGCCAAAAACAGATTCGTGTTTATATAAAAGAGTAAACGATGGTTGCAA
                    AAGTAAACATACTCGCCTGGATCTGAATCATTCATTTAATTACTAGATCTACCCAGCTGT[AT]ATTATCAGGCCAAAAAC
76419 IS  [AT]      AGATTCGTGTTTATATAAAAGAGTAAACGATGGTTGCAAATTT
76449 I           S  CAGGGTCATCATACATTTATCAACTTTCTTTCCAGGGCTCAT
76449 P   T       S  CGCGCCGAGGAGATGTCTTCCGCCAGY
76449 P   C       S  ATGACGTGGCAGACGGATGTCTTCCGCCAY
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FIGURE 129D

76449	T	T	S	TTGCCTGGCGGAAGACATCTTGAGCCCTGGAAAGAAAGTTGATAAATGTATGATGACCCTGCT
76449	T	C	S	TTGCCTGGCGGAAGACATCCTGAGCCCTGGAAAGAAAGTTGATAAATGTATGATGACCCTGCT
76449	IS	[TC]		TTGTGGAGGAAGCACGTGGAGGAGCACACTTGGAGATTTCATTGCCTGGCGGAAGACATC[TC]TGAGCCCTGGAAAG AAAGTTGATAAATGTATGATGACCCTGCTTTGAGGTGCAGCATCTT
76453	I		A	CCCCTTCTCTAGACCCCAATTCACTTAATCATAAAAACAT
76453	P	G	A	ATGACGTGGCAGACGCTCCTAACAGTCTTTGCY
76453	P	C	A	CGCGCCGAGGCCTCCTAACAGTCTTTGCY
76453	T	G	A	GAACGCAAAGACTGTTAGGAGGTGTTTTTATGATTAAGTGAATTGGGGTCTAGAGAAGGGGAA
76453	T	C	A	GAACGCAAAGACTGTTAGGAGGTGTTTTTATGATTAAGTGAATTGGGGTCTAGAGAAGGGGAA
76453	IS	[GC]		GTCTCCAACTTTACTTATCTTCCCCTTCTCTAGACCCCAATTCACTTAATCATAAAAACA[GC]CTCCTAACAGTCTTTGC GTTCTCGTTTTTGGAAAGATGACAAAATCACTTATAAAATCAA
76489	I		A	TCCGAGAGTCCAGACGCATGCCGACA
76489	P	T	A	CGCGCCGAGGTGGAGGACCAAAGAGATTY
76489	P	C	A	ATGACGTGGCAGACCGGAGGACCAAAGAGAY
76489	T	T	A	TGCTAATCTCTTTGGTCCTCCAGTCGGCATGCGTCTGGACTCTCGGACT
76489	T	C	A	TGCTAATCTCTTTGGTCCTCCGGTCGGCATGCGTCTGGACTCTCGGACT
76489	IS	[TC]		CCGGGGAGGCCTAGACATTTCCGGCCCAGACGCAGTCCGAGAGTCCAGACGCATGCCGAC[TC]GGAGGACCAAAGA GATTAGCACGAAGAAGGATGATCTTCCACAAAAAGAGCTATGTACAG
76523	I		A	GTAACTGGACAGACTGACAAGTAGGACCAAAAATTTCTAT
76523	P	A	A	CGCGCCGAGGAGTCTAGGACTATATTGAAGGAY
76523	P	G	A	ATGACGTGGCAGACGGTCTAGGACTATATTGAAGGAY
76523	T	A	A	AAATTCCTTCAATATAGTCCTAGACTTAGAAATTTTTGGTCCTACTTGTCAGTCTGTCCAGTTACTC
76523	T	G	A	AAATTCCTTCAATATAGTCCTAGACCTAGAAATTTTTGGTCCTACTTGTCAGTCTGTCCAGTTACTC
76523	IS	[AG]		TACATTCCCTTTGGAATTAGAGTAACTGGACAGACTGACAAGTAGGACCAAAAATTTCTA[AG]GTCTAGGACTATATTG AAGGAATTTTAAAAAGTTACACCTTTATTTTGACTAACACAAAT
76548	I		S	GGAGGTGCAGCACCAGAGACCTAGAGATAGAGACT
76548	P	T	S	CGCGCCGAGGAACTCCCCAGAATGACTTY
76548	P	C	S	ATGACGTGGCAGACGACTCCCCAGAATGACTY
76548	T	T	S	GTACAAGTCATTCTGGGGAGTTGTCTCTATCTCTAGGTCTCTGGTGCTGCACCTCCTA
76548	T	C	S	GTACAAGTCATTCTGGGGAGTCGTCTCTATCTCTAGGTCTCTGGTGCTGCACCTCCTA
76548	IS	[TC]		GGTAAGTATTGTTGAACTTCAAATGCTGTTAATGTTGAAGTACAAGTCATTCTGGGGAGT[TC]GTCTCTATCTCTAGGT CTCTGGTGCTGCACCTCCTAGACCAGGAAGTAGCTTTGCTCATT
76551	I		A	GGCTCTATGGCAGTCCATGGTGTAAGGTGAATGATAATCT
76551	P	A	A	CGCGCCGAGGATAAGAAAGAAGAAGTCTGGTTY
76551	P	G	A	ATGACGTGGCAGACGTAAGAAAGAAGAAGTCTGGTY
76551	T	A	A	TACCAACCAGACTTCTTCTTTCTTATGATTATCATTCACCTTACACCATGGACTGCCATAGAGCCAA
76551	T	G	A	TACCAACCAGACTTCTTCTTTCTTACGATTATCATTCACCTTACACCATGGACTGCCATAGAGCCAA
76551	IS	[AG]		ACTTACAGCCAGACTGGCTTTGGCTCTATGGCAGTCCATGGTGTAAGGTGAATGATAATC[AG]TAAGAAAGAAGAAGT CTGGTTGGTATATCCTTTTCGTCCAACTTACACTGCAATGAGGCA
76564	I		A	TGACACACCAGGGGCAGAGCTGGAA
76564	P	C	A	ATGACGTGGCAGACCGGGAACCTTCTTCCTY
76564	P	T	A	CGCGCCGAGGTGGGAACCTTCTTCCTCY
76564	T	C	A	GTCTGAGGAAGAAGGTTCCCGTCCAGCTCTGCCCCTGGTGTGTCACA
76564	T	T	A	GTCTGAGGAAGAAGGTTCCCATCCAGCTCTGCCCCTGGTGTGTCACA
76564	IS	[CT]		TGTCAGGTTCTCGTGTGCGTTGACAAGGCCGGCATGTGACACACCAGGGGCAGAGCTGGA[CT]GGGAACCTTCTTCC TCAGACATCAGGGTCCTCATGAGCATCAACAAAATAAGGAGAGCTG
76565	I		S	GGTCACATCGGCCCTCATGTTCCTCCAA
76565	P	G	S	ATGACGTGGCAGACCCAGCATGGAGTCATCTY
76565	P	A	S	CGCGCCGAGGTCAGCATGGAGTCATCTAY
76565	T	G	S	CCTGTAGATGACTCCATGCTGGTGGAGGAACATGAGGGCCGATGTGACCTC
76565	T	A	S	CCTGTAGATGACTCCATGCTGATGGAGGAACATGAGGGCCGATGTGACCTC
76565	IS	[GA]		TTTCTTCACTTTCAGGAAAGAGGAGGAGAAGAAGGCTACCTGTAGATGACTCCATGCTG[GA]TGGAGGAACATGAG GGCCGATGTGACCTCTGCAGCATAGAACCGTGAACGAGGCTCGTCG
76599	I		A	CCAGCCAGGCTCCATGTCTTGCTCTTCAT
76599	P	A	A	CGCGCCGAGGATTCCGTTCACTGACATCY
76599	P	G	A	ATGACGTGGCAGACGTTCCGTTCACTGACATCY
76599	T	A	A	GTCTGATGTCAGTGAACGGAATTGAAGAGCAAGACATGGAGCCTGGCTGGGG
76599	T	G	A	GTCTGATGTCAGTGAACGGAACTGAAGAGCAAGACATGGAGCCTGGCTGGGG
76599	IS	[AG]		CTGTGCCATCCGGAGGAGGGGGCTGCTTAGCCCCAGCCAGGCTCCATGTCTTGCTCTTCA[AG]TTCCGTTCACTGAC ATCAGACCTTGTCCCACACTCGAAAAGCCTTTTTCTCCCCTGTCTT
76703	I		A	GGTGTGGCCTGAGCCTTAGCCAGCC
76703	P	T	A	CGCGCCGAGGTAGCACAAGATACATTTCTGGY
76703	P	A	A	ATGACGTGGCAGACAAGCACAAGATACATTTCTGGY
76703	T	T	A	CAGGCCAGAAATGTATCTTGTGCTAGCTGGCTAAGGCTCAGGCCACACCTA
76703	T	A	A	CAGGCCAGAAATGTATCTTGTGCTTGCTGGCTAAGGCTCAGGCCACACCTA
76703	IS	[TA]		TGGGCACAGAGAAGGAATGGAACCAGGGTGGGCCTAGGTGTGGCCTGAGCCTTAGCCAGC[TA]AGCACAAGATACAT TTCTGGCCTGGCCCAGGCTCCGCCCCTAGGTTCCTCCTCTTCCCCC
76719	I		A	CCACAGAATCGACCAAGCCCCACAGCTGA
76719	P	T	A	CGCGCCGAGGTTGAATCAAGACCATCAAAGAY
76719	P	C	A	ATGACGTGGCAGACCTGAATCAAGACCATCAAAGAY
76719	T	T	A	GAGCTCTTTGATGGTCTTGATTCAACAGCTGTGGGGCTTGGTCGATTCTGTGGAT
76719	T	C	A	GAGCTCTTTGATGGTCTTGATTCAGCAGCTGTGGGGCTTGGTCGATTCTGTGGAT
76719	IS	[TC]		GGTATTCTGTTGGTGGTATATTTACCCCGGATCCACAGAATCGACCAAGCCCCACAGCTG[TC]TGAATCAAGACCATC AAAGAGCTCCACATAGTCATAGCCACAGTCTGCTTCTTCCTCCAC
76768	I		A	CCGTGCCTGAGACAGAGAGATGGCTCACAAC
76768	P	A	A	CGCGCCGAGGATGGTCGTCACTGTTGTY
76768	P	T	A	ATGACGTGGCAGACTTGGTCGTCACTGTTGTY
76768	T	A	A	TTTAACAACAGTGACGACCATTTGTGAGCCATCTCTCTGTCTCAGGCACGGTG
76768	T	T	A	TTTAACAACAGTGACGACCAATTGTGAGCCATCTCTCTGTCTCAGGCACGGTG
76768	IS	[AT]		AATGGGAGCAGGTTTCGTTGGCATGTAGCACCGTGCCTGAGACAGAGAGATGGCTCACAA[AT]TGGTCGTCACTGTT GTTAAAGAAATAAATATGCTTAGAGAAAATGGCGTTTACTCTCTTC
76775	I		S	ACTGGAGGAACATGGATCATTTTGTTATACCCACCATGAAAATTCTTTC
76775	P	A	S	CGCGCCGAGGTAAGCAACTACAAAAATCTTTCAAY
76775	P	C	S	ATGACGTGGCAGACGAAGCAACTACAAAAATCTTTCAY
76775	T	A	S	TGCCTTGAAAGATTTTTGTAGTTGCTTAAAAGAATTTTCATGGTGGGTATAACAAAATGATCCATGTTCCTCCAGTGA
76775	T	C	S	TGCCTTGAAAGATTTTTGTAGTTGCTTCAAAGAATTTTCATGGTGGGTATAACAAAATGATCCATGTTCCTCCAGTGA
76775	IS	[AC]		TAAATTTTTTTAAAGTAATAACCTTAAAAAAGATGCCTTGAAAGATTTTTGTAGTTGCTT[AC]AAAGAATTTTCATGGTGG GTATAACAAAATGATCCATGTTCCTCCAGTGAATCCCAAACA
76798	I		A	AGCCTCGGCCGCCGAGTTTTCGC
76798	P	G	A	ATGACGTGGCAGACGTTTCCAAGTTTCCTTCCCY
76798	P	T	A	CGCGCCGAGGTTTTCCAAGTTTCCTTCCCY
76798	T	G	A	GCCTGGGAAGGAAACTTGGAAACCGAAAACTCGGCGGCCGAGGCTCC
76798	T	T	A	GCCTGGGAAGGAAACTTGGAAAACGAAAACTCGGCGGCCGAGGCTCC

FIGURE 129D

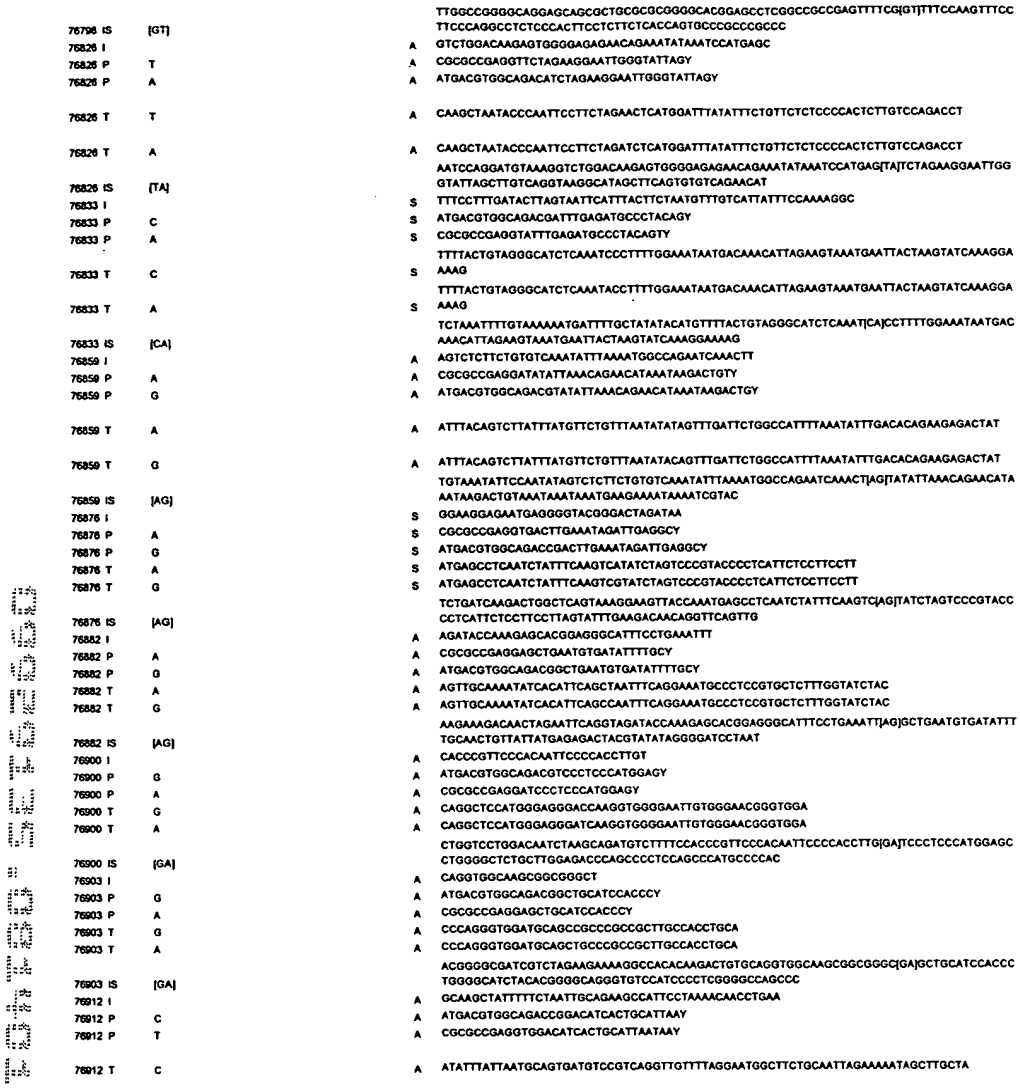

TTGGCCGGGGCAGGAGCAGCGCTGCGCGCGGGGCACGGAGCCTCGGCCGCCGAGTTTTCG[GT]TTTCCAAGTTTCC
76796 IS [GT] TTCCCAGGCCTCTCCCACTTCCTCTTCTCACCAGTGCCCGCCCGCCC
76826 I A GTCTGGACAAGAGTGGGGAGAGAACAGAAATATAAATCCATGAGC
76826 P T A CGCGCCGAGGTTCTAGAAGGAATTGGGTATTAGY
76826 P A A ATGACGTGGCAGACATCTAGAAGGAATTGGGTATTAGY
76826 T T A CAAGCTAATACCCAATTCCTTCTAGAACTCATGGATTTATATTTCTGTTCTCTCCCCACTCTTGTCCAGACCT
76826 T A A CAAGCTAATACCCAATTCCTTCTAGATCTCATGGATTTATATTTCTGTTCTCTCCCCACTCTTGTCCAGACCT
AATCCAGGATGTAAAGGTCTGGACAAGAGTGGGGAGAGAACAGAAATATAAATCCATGAG[TA]TCTAGAAGGAATTGG
76826 IS [TA] GTATTAGCTTGTCAGGTAAGGCATAGCTTCAGTGTGTCAGAACAT
76833 I S TTTCCTTTGATACTTAGTAATTCATTTACTTCTAATGTTTGTCATTATTTCCAAAAGGC
76833 P C S ATGACGTGGCAGACGATTTGAGATGCCCTACAGY
76833 P A S CGCGCCGAGGTATTTGAGATGCCCTACAGTY
TTTTACTGTAGGGCATCTCAAATCCCTTTTGGAAATAATGACAAACATTAGAAGTAAATGAATTACTAAGTATCAAAGGA
76833 T C S AAAG
TTTTACTGTAGGGCATCTCAAATACCTTTTGGAAATAATGACAAACATTAGAAGTAAATGAATTACTAAGTATCAAAGGA
76833 T A S AAAG
TCTAAATTTTGTAAAAAATGATTTTGCTATATACATGTTTTACTGTAGGGCATCTCAAAT[CA]CCTTTTGGAAATAATGAC
76833 IS [CA] AAACATTAGAAGTAAATGAATTACTAAGTATCAAAGGAAAAG
76859 I A AGTCTCTTCTGTGTCAAATATTTAAAATGGCCAGAATCAAACTT
76859 P A A CGCGCCGAGGATATATTAAACAGAACATAAATAAGACTGTY
76859 P G A ATGACGTGGCAGACGTATATTAAACAGAACATAAATAAGACTGY
76859 T A A ATTTACAGTCTTATTTATGTTCTGTTTAATATATAGTTTGATTCTGGCCATTTTAAATATTTGACACAGAAGAGACTAT
76859 T G A ATTTACAGTCTTATTTATGTTCTGTTTAATATACAGTTTGATTCTGGCCATTTTAAATATTTGACACAGAAGAGACTAT
TGTAAATATTCCAATATAGTCTCTTCTGTGTCAAATATTTAAAATGGCCAGAATCAAACT[AG]TATATTAAACAGAACATA
76859 IS [AG] AATAAGACTGTAAATAAATAAATGAAGAAAATAAAATCGTAC
76876 I S GGAAGGAGAATGAGGGGTACGGGACTAGATAA
76876 P A S CGCGCCGAGGTGACTTGAAATAGATTGAGGCY
76876 P G S ATGACGTGGCAGACCGACTTGAAATAGATTGAGGCY
76876 T A S ATGAGCCTCAATCTATTTCAAGTCATATCTAGTCCCGTACCCCTCATTCTCCTTCCTT
76876 T G S ATGAGCCTCAATCTATTTCAAGTCGTATCTAGTCCCGTACCCCTCATTCTCCTTCCTT
TCTGATCAAGACTGGCTCAGTAAAGGAAGTTACCAAATGAGCCTCAATCTATTTCAAGTC[AG]TATCTAGTCCCGTACC
76876 IS [AG] CCTCATTCTCCTTCCTTAGTATTTGAAGACAACAGGTTCAGTTG
76882 I A AGATACCAAAGAGCACGGAGGGCATTTCCTGAAATTT
76882 P A A CGCGCCGAGGAGCTGAATGTGATATTTTGCY
76882 P G A ATGACGTGGCAGACGGCTGAATGTGATATTTTGCY
76882 T A A AGTTGCAAAATATCACATTCAGCTAATTTCAGGAAATGCCCTCCGTGCTCTTTGGTATCTAC
76882 T G A AGTTGCAAAATATCACATTCAGCCAATTTCAGGAAATGCCCTCCGTGCTCTTTGGTATCTAC
AAGAAAGACAACTAGAATTCAGGTAGATACCAAAGAGCACGGAGGGCATTTCCTGAAATT[AG]GCTGAATGTGATATTT
76882 IS [AG] TGCAACTGTTATTATGAGAGACTACGTATATAGGGGATCCTAAT
76900 I A CACCCGTTCCCACAATTCCCCACCTTGT
76900 P G A ATGACGTGGCAGACGTCCCTCCCATGGAGY
76900 P A A CGCGCCGAGGATCCCTCCCATGGAGY
76900 T G A CAGGCTCCATGGGAGGGACCAAGGTGGGGAATTGTGGGAACGGGTGGA
76900 T A A CAGGCTCCATGGGAGGGATCAAGGTGGGGAATTGTGGGAACGGGTGGA
CTGGTCCTGGACAATCTAAGCAGATGTCTTTTCCACCCGTTCCCACAATTCCCCACCTTG[GA]TCCCTCCCATGGAGC
76900 IS [GA] CTGGGGCTCTGCTTGGAGACCCAGCCCCTCCAGCCCATGCCCCAC
76903 I A CAGGTGGCAAGCGGCGGGCT
76903 P G A ATGACGTGGCAGACGGCTGCATCCACCCY
76903 P A A CGCGCCGAGGAGCTGCATCCACCCY
76903 T G A CCCAGGGTGGATGCAGCCGCCCGCCGCTTGCCACCTGCA
76903 T A A CCCAGGGTGGATGCAGCTGCCCGCCGCTTGCCACCTGCA
ACGGGGCGATCGTCTAGAAGAAAAGGCCACACAAGACTGTGCAGGTGGCAAGCGGCGGGC[GA]GCTGCATCCACCC
76903 IS [GA] TGGGGCATCTACACGGGGCAGGGTGTCCATCCCCTCGGGGCCAGCCC
76912 I A GCAAGCTATTTTTCTAATTGCAGAAGCCATTCCTAAAACAACCTGAA
76912 P C A ATGACGTGGCAGACCGGACATCACTGCATTAAY
76912 P T A CGCGCCGAGGTGGACATCACTGCATTAATAAY
76912 T C A ATATTTATTAATGCAGTGATGTCCGTCAGGTTGTTTTAGGAATGGCTTCTGCAATTAGAAAAATAGCTTGCTA
76912 T T A ATATTTATTAATGCAGTGATGTCCATCAGGTTGTTTTAGGAATGGCTTCTGCAATTAGAAAAATAGCTTGCTA
ACATTTACATTCTAGCAAGCTATTTTTCTAATTGCAGAAGCCATTCCTAAAACAACCTGA[CT]GGACATCACTGCATTAA
76912 IS [CT] TAAATATTTTTTATTTATACACAGTAAAGTTGTGTATATAAAG
76921 I S CCAAGTTCCCGCTCACCCGATAAATGCCT
76921 P T S CGCGCCGAGGATCCACATCTAGACCTGGY
76921 P C S ATGACGTGGCAGACGTCCACATCTAGACCTGGY
76921 T T S TCTCCCAGGTCTAGATGTGGATGGCATTTATCGGGTGAGCGGGAACTTGGCA
76921 T C S TCTCCCAGGTCTAGATGTGGACGGCATTTATCGGGTGAGCGGGAACTTGGCA
CACACTTTCAAGCAGCAGTCCTTATCTACTCCTTCCTCATCTCCCAGGTCTAGATGTGGA[TC]GGCATTTATCGGGTGA
76921 IS [TC] GCGGGAACTTGGCAGTGGTCCAGAAGCTTCGCTTTCTGGTGGAC
76930 I A GCGTCCGCCCTGCCCTCCCA
76930 P C A ATGACGTGGCAGACCTTTCCATGCATTTGGCY
76930 P T A CGCGCCGAGGTTTTCCATGCATTTGGCTY
76930 T C A GAAGAGCCAAATGCATGGAAAGGGGAGGGCAGGGCGGACGCAA
76930 T T A GAAGAGCCAAATGCATGGAAAAGGGAGGGCAGGGCGGACGCAA
ACGTTCTGGATGATTTACAAGCACAGCCTGCTTTCCCTGTTGCGTCCGCCCTGCCCTCCC[CT]TTTCCATGCATTTGG
76930 IS [CT] CTCTTCCTGCTGCCCCCCACCAGGGGTCCACAGAGACACAGAGAT
76973 I S ACCCTGTCCCCTGTGGTTTTATGAAGACGTTAGTTATGAATCA
76973 P G S ATGACGTGGCAGACCGTGTTTAGGATGAGAAGATY
76973 P A S CGCGCCGAGGTGTGTTTAGGATGAGAAGATGY
76973 T G S TTTACATCTTCTCATCCTAAACACGGATTCATAACTAACGTCTTCATAAAACCACAGGGGACAGGGTGA
76973 T A S TTTACATCTTCTCATCCTAAACACAGATTCATAACTAACGTCTTCATAAAACCACAGGGGACAGGGTGA
AGACTCTTGCTAGCTTCTCACTTATCCTCCTCACTGTTTACATCTTCTCATCCTAAACAC[GA]GATTCATAACTAACGTC
76973 IS [GA] TTCATAAAACCACAGGGGACAGGGTGACAGAGACAAAAACTCC
76980 I A TCGAGCAATATCTGACGCATTCTGAATAACCAAGCCATCT
76980 P G A ATGACGTGGCAGACGTAGGCCTTCATCCCCY
76980 P A A CGCGCCGAGGATAGGCCTTCATCCCCY
76980 T G A ATATGGGGATGAAGGCCTACGATGGCTTGGTTATTCAGAATGCGTCAGATATTGCTCGAGA
76980 T A A ATATGGGGATGAAGGCCTATGATGGCTTGGTTATTCAGAATGCGTCAGATATTGCTCGAGA
ATTTCTCAAGCGATCATTCTCTCGAGCAATATCTGACGCATTCTGAATAACCAAGCCATC[GA]TAGGCCTTCATCCCCA
76980 IS [GA] TATCCTCAATGTACTGGAGAAATGTGTCCAAAGGGTCTTCCTCA
76989 I S GGAAGATTCCACTGCAATTAGGGCCCCCATT
76989 P C S ATGACGTGGCAGACGGCTTCTGAACCAGCY
76989 P T S CGCGCCGAGGAGCTTCTGAACCAGCAY

FIGURE 129D

76989	T	C	S	AGACTGCTGGTTCAGAAGCCATGGGGGCCCTAATTGCAGTGGAATCTTCCAG
76989	T	T	S	AGACTGCTGGTTCAGAAGCTATGGGGGCCCTAATTGCAGTGGAATCTTCCAG
76989	IS	[CT]		GATCTGGAATTCAATTACCACACAAAAATACACAAGCCAGGAGACTGCTGGTTCAGAAGC[CT]ATGGGGGCCCTAATT GCAGTGGAATCTTCCAGGTTAGAAAAACTGACACTGTTCCATCAG
77002	I		A	CTGTACACAGGAACTGCTTCCTTCCAGTCTAGCAT
77002	P	A	A	CGCGCCGAGGAGAAGGTATGAGAAGAGTCATY
77002	P	G	A	ATGACGTGGCAGACGGAAGGTATGAGAAGAGTCAY
77002	T	A	A	CAGCATGACTCTTCTCATACCTTCTTGCTAGACTGGAAGGAAGCAGTTCCTGTGTACAGTA
77002	T	G	A	CAGCATGACTCTTCTCATACCTTCCTGCTAGACTGGAAGGAAGCAGTTCCTGTGTACAGTA
77002	IS	[AG]		TCGGTCGGGCACTGTGGTAACACTTACTGTACACAGGAACTGCTTCCTTCCAGTCTAGC[AG]GAAGGTATGAGAAGA GTCATGCTGCTGCTTGTTCCCCTAAACCTTACAAAGTCATCATTG
77035	I		A	AGTTGCCTTGTCACTGGCGAAGTCAGATGCT
77035	P	A	A	CGCGCCGAGGAGCCAGTACCAGAGCY
77035	P	G	A	ATGACGTGGCAGACGGCCAGTACCAGAGCY
77035	T	A	A	CAGAGCTCTGGTACTGGCTGCATCTGACTTCGCCAGTGACAAGGCAACTCT
77035	T	G	A	CAGAGCTCTGGTACTGGCCGCATCTGACTTCGCCAGTGACAAGGCAACTCT
77035	IS	[AG]		TAACCCAGTTTATTGGCTCAGGGTGTAGAGAGTTGCCTTGTCACTGGCGAAGTCAGATGC[AG]GCCAGTACCAGAGC TCTGCACTAGCTGTGAACACTAAGGAAGAATAGCTGAGTGAGGAAG
77039	I		A	GTCACATGAGTGTTATTACAAGTATATTTAAATTATGTCAATTATGTTTCTGCCAT
77039	P	A	A	CGCGCCGAGGAATTTTAGCAATTGTTAGAGTGTAAY
77039	P	C	A	ATGACGTGGCAGACCATTTTAGCAATTGTTAGAGTGTY
77039	T	A	A	ATACTTACACTCTAACAATTGCTAAAATTTGGCAGAAACATAATTGACATAATTTAAATATACTTGTAATAACACTCATGT GACTA
77039	T	C	A	ATACTTACACTCTAACAATTGCTAAAATGTGGCAGAAACATAATTGACATAATTTAAATATACTTGTAATAACACTCATGT GACTA
77039	IS	[AC]		ATTTAGTCACATGAGTGTTATTACAAGTATATTTAAATTATGTCAATTATGTTTCTGCCA[AC]ATTTTAGCAATTGTTAGA GTGTAAGTATAATCAATATAAATATAGGAATGTGTGAAATAC
77063	I		S	ACCCCCATTGTCAGTCACCTCACATTAGAGATTGCT
77063	P	T	S	CGCGCCGAGGAGACCCATTCAGTTTAGGAY
77063	P	C	S	ATGACGTGGCAGACGGACCCATTCAGTTTAGGY
77063	T	T	S	AGTTTCCTAAACTGAATGGGTCTGCAATCTCTAATGTGAGGTGACTGACAATGGGGGTGG
77063	T	C	S	AGTTTCCTAAACTGAATGGGTCCGCAATCTCTAATGTGAGGTGACTGACAATGGGGGTGG
77063	IS	[TC]		GGACAACTGCAGACAGTGTGGTCATAGGTTCCCTCTGCAGTTTCCTAAACTGAATGGGTC[TC]GCAATCTCTAATGTG AGGTGACTGACAATGGGGGTGGAGCCAGTCATTTCCCACGGGGTT
77080	I		S	TCAACCTTTTTAAGACACCTTTATAGAGAACCCTAGAGAAAGAAATT
77080	P	T	S	CGCGCCGAGGAGGAGCTCATTAATTAGCCY
77080	P	C	S	ATGACGTGGCAGACGGGAGCTCATTAATTAGCCY
77080	T	T	S	TACTGGCTAATTAATGAGCTCCTATTTCTTTCTCTAGGGTTCTCTATAAAGGTGTCTTAAAAAGGTTGATT
77080	T	C	S	TACTGGCTAATTAATGAGCTCCCATTTCTTTCTCTAGGGTTCTCTATAAAGGTGTCTTAAAAAGGTTGATT
77080	IS	[TC]		CAATCTTGCAGTTTATTATGTAATCTGCAAATTGTAATTACTGGCTAATTAATGAGCTCC[TC]ATTTCTTTCTCTAGGGT TCTCTATAAAAGGTGTCTTAAAAAGGTTGATTTTGTTATATGAG
77088	I		A	GCACTCCGCGGACACGCGCTA
77088	P	T	A	CGCGCCGAGGTGGCTCTCACATCCTGY
77088	P	C	A	ATGACGTGGCAGACCGGCTCTCACATCCTY
77088	T	T	A	TCTCCAGGATGTGAGAGCCAAGCGCGTGTCCGCGGAGTGCTT
77088	T	C	A	TCTCCAGGATGTGAGAGCCGAGCGCGTGTCCGCGGAGTGCTT
77088	IS	[TC]		TCTAAGGAACGCAGCACCGAAGCCATTCTGCGTTGCTCAAGCACTCCGCGGACACGCGCT[TC]GGCTCTCACATCCT GGAGATGTTCGTTATCCCGGGAAGATGTTTATCAGAAGAGAATTTC
77144	I		S	GTGCTCAGATCAGACAAGCCTTGTGAAAATACTGGAAGAA
77144	P	A	S	CGCGCCGAGGTGTTCCTCTCATACTGCAY
77144	P	G	S	ATGACGTGGCAGACCGTTCCTCTCATACTGCY
77144	T	A	S	TTTTTGCAGTATGAGAGGAACATCTTCCAGTATTTTCACAAGGCTTGTCTGATCTGAGCACTC
77144	T	G	S	TTTTTGCAGTATGAGAGGAACGTCTTCCAGTATTTTCACAAGGCTTGTCTGATCTGAGCACTC
77144	IS	[AG]		TGAGCTGTTCACCCTCTCAGGATCTTCTCTGGAGTTTCTTTTTTGCAGTATGAGAGGAAC[AG]TCTTCCAGTATTTTCA CAAGGCTTGTCTGATCTGAGCACTCACTTGAAAATACCTGCCCG
77218	I		S	TGCAGGCCACAAGTGGGGGCTGA
77218	P	G	S	ATGACGTGGCAGACCGGGACACTCACTCGY
77218	P	A	S	CGCGCCGAGGTGGGACACTCACTCGY
77218	T	G	S	CTGACGAGTGAGTGTCCCGCAGCCCCCACTTGTGGCCTGCAAT
77218	T	A	S	CTGACGAGTGAGTGTCCCACAGCCCCCACTTGTGGCCTGCAAT
77218	IS	[GA]		TGTGCCCGATCTCGGCAGGCAGCCGGCCCCTGGAATTCTTCCCTGACGAGTGAGTGTCCC[GA]CAGCCCCCACTTGT GGCCTGCAATGGGGTTGGGGAGGCCCTGTCCTGAGGCTCCTCCCCT
77238	I		A	TCATGGTGCTTTTTGCCTGACAGAATTTCTTCTCAACTCTTT
77238	P	G	A	ATGACGTGGCAGACGAATTTCTTCTCAACTTCACTTCY
77238	P	A	A	CGCGCCGAGGAAATTTCTTCTCAACTTCACTTCY
77238	T	G	A	TCAGGAAGTGAAGTTGAGAAGAAATTCAAGAGTTGAGAAGAAATTCTGTCAGGCAAAAAGCACCATGACA
77238	T	A	A	TCAGGAAGTGAAGTTGAGAAGAAATTTAAGAGTTGAGAAGAAATTCTGTCAGGCAAAAAGCACCATGACA
77238	IS	[GA]		TTTCTGCTTGATTTCCATGTCATGGTGCTTTTTGCCTGACAGAATTTCTTCTCAACTCTT[GA]AATTTCTTCTCAACTTC ACTTCCTGAGAGAGATTTTTGCAAAGCTGCCAAGATGTGCAGT
77258	I		A	GCAAAATAGGCTGTAATGACCTTGTCTGCCTAAACTCTGCT
77258	P	C	A	ATGACGTGGCAGACCAGTCTAACAAGGCTTAATTAATGY
77258	P	A	A	CGCGCCGAGGAAGTCTAACAAGGCTTAATTAATGY
77258	T	C	A	GTTTCATTAATTAAGCCTTGTTAGACTGGCAGAGTTTAGGCAGACAAGGTCATTACAGCCTATTTTGCCT
77258	T	A	A	GTTTCATTAATTAAGCCTTGTTAGACTTGCAGAGTTTAGGCAGACAAGGTCATTACAGCCTATTTTGCCT
77258	IS	[CA]		TTTTCTTTATATAGAAGGAGGCAAAATAGGCTGTAATGACCTTGTCTGCCTAAACTCTGC[CA]AGTCTAACAAGGCTTA ATTAATGAAACCACATTCACTAGTGCTAGATTTGATACAAATCA
77346	I		S	CCTGATGCCAATTATTCATGAATAAACAGCCAAATTTTAGCCTCTGAAATTT
77346	P	C	S	ATGACGTGGCAGACGCAAAGATGATTAACAGCCY
77346	P	T	S	CGCGCCGAGGACAAAGATGATTAACAGCCTY
77346	T	C	S	CCAAAGGCTGTTAATCATCTTTGCAATTTCAGAGGCTAAAATTTGGCTGTTTATTCATGAATAATTGGCATCAGGTG
77346	T	T	S	CCAAAGGCTGTTAATCATCTTTGTAATTTCAGAGGCTAAAATTTGGCTGTTTATTCATGAATAATTGGCATCAGGTG
77346	IS	[CT]		CTCCTAAGGTAGAAAGTCCCAGTGGTCACAATTAAGTCCAAAGGCTGTTAATCATCTTT[CT]AATTTCAGAGGCTAAA ATTTGGCTGTTTATTCATGAATAATTGGCATCAGGTGAATTAAT
77358	I		S	GGGCCTGGGGTGGGAGCTGTT
77358	P	G	S	CGCGCCGAGGCCCAGCACAAGCAACY
77358	P	C	S	ATGACGTGGCAGACGCCAGCACAAGCAAY
77358	T	G	S	AGTTGTTGCTTGTGCTGGGACAGCTCCCACCCCAGGCCCAG
77358	T	C	S	AGTTGTTGCTTGTGCTGGCACAGCTCCCACCCCAGGCCCAG
77358	IS	[GC]		TGGCAGAAATCATCGACGATTGTGTGGTGAGTGAAGCTGCTAAGTTGTTGCTTGTGCTGG[GC]ACAGCTCCCACCCC AGGCCCAGGTTAGTAAGTAGCTGGTGTTTGGTTTGGCTTTGCTGCC
77360	I		A	GAGATAGAAGGCTCCCTCTCTATTATTTGAGCAAGAACAATGCTTTTCT

FIGURE 129D

77380 P	A	A	CGCGCCGAGGAAAGAGGGAATTTCTGCAAY	
77380 P	G	A	ATGACGTGGCAGACGAAGAGGGAATTTCTGCAAY	
77380 T	A	A	CTCATTGCAGAAATTCCCTCTTTGAAAAGCATTGTTCTTGCTCAAATAATAGAGAGGGAGCCTTCTATCTCAC	
77380 T	G	A	CTCATTGCAGAAATTCCCTCTTCGAAAAGCATTGTTCTTGCTCAAATAATAGAGAGGGAGCCTTCTATCTCAC	
77380 IS	[AG]		AGTGAGAGAAGTGAGATAGAAGGCTCCCTCTCTATTATTTGAGCAAGAACAATGCTTTTC[AG]AAGAGGGAATTTCTG CAATGAGTTCTTCTCTTACTTGTTCAGGGAAATGGTTGACCCCAT	
77420 I		A	AGATGGAAAAGGAAAATGTAATTTCCTCAGCAGGGAGCAA	
77420 P	C	A	ATGACGTGGCAGACCCCAATTAGAACTGGTTGAY	
77420 P	T	A	CGCGCCGAGGTCCAATTAGAACTGGTTGAGY	
77420 T	C	A	ACTACTCAACCAGTTCTAATTGGGTGCTCCCTGCTGAGGAAATTACATTTTCCTTTTCCATCTGC	
77420 T	T	A	ACTACTCAACCAGTTCTAATTGGATGCTCCCTGCTGAGGAAATTACATTTTCCTTTTCCATCTGC	
77420 IS	[CT]		TTTGATTCCCAACAGTTCTGCAGATGGAAAAGGAAAATGTAATTTCCTCAGCAGGGAGCA[CT]CCAATTAGAACTGGTT GAGTAGTTTATGGTTCTTTCTCTAAAACAGAAACTCAAATTGCA	
77444 I		S	GGGCGTCATCGTGAGGGTGGGGC	
77444 P	C	S	ATGACGTGGCAGACGTTGGAGCCTGTTGAGY	
77444 P	A	S	CGCGCCGAGGTTTGGAGCCTGTTGAGAY	
77444 T	C	S	CTGCTCTCAACAGGCTCCAACCCCCACCCTCACGATGACGCCCAG	
77444 T	A	S	CTGCTCTCAACAGGCTCCAAACCCCACCCTCACGATGACGCCCAG	
77444 IS	[CA]		TGGCATGGCTGGAGCCTGGGTATGCACAGTCAAGCCAGCCCTGCTCTCAACAGGCTCCAA[CA]CCCCACCCTCACGA TGACGCCCAGAAACCACACAGACGAGGAGCTGTTTCTTGACTGTTA	
77478 I		S	GTTATTTTGCTGACACACCAATTCCTGCCTGGTTGTTATTT	
77478 P	G	S	CGCGCCGAGGCTGAAGGTTTAAGCACTGGY	
77478 P	C	S	ATGACGTGGCAGACGTGAAGGTTTAAGCACTGGY	
77478 T	G	S	CAGACCAGTGCTTAAACCTTCAGAATAACAACCAGGCAGGAATTGGTGTGTCAGCAAAATAACCA	
77478 T	C	S	CAGACCAGTGCTTAAACCTTCACAATAACAACCAGGCAGGAATTGGTGTGTCAGCAAAATAACCA	
77478 IS	[GC]		TGGTTTCCAACCTTCACCTGCACAAAGAAGTCAAAACACAGACCAGTGCTTAAACCTTCA[GC]AATAACAACCAGGCAG GAATTGGTGTGTCAGCAAAATAACCAACTATGGTCAGAAGCAAG	
77480 I		S	GACGATGCTGCACCTGGCCGTGATT	
77480 P	G	S	ATGACGTGGCAGACCTTCCTCTTCTCCGCCY	
77480 P	T	S	CGCGCCGAGGATTCCTCTTCTCCGCCY	
77480 T	G	S	ACAGGGCGGAGAAGAGGAAGATCACGGCCAGGTGCAGCATCGTCAT	
77480 T	T	S	ACAGGGCGGAGAAGAGGAATATCACGGCCAGGTGCAGCATCGTCAT	
77480 IS	[GT]		CACACGGGCCCTGTGGCTGGAGCACTGAACCAGCGCCCTGGACAGGGCGGAGAAGAGGAA[GT]ATCACGGCCAGGT GCAGCATCGTCATGAAGAGGGGAAATGGAAGCTCTGTATGGAGCCC	
77519 I		A	GGTTGGGGGCGTGAAACTCGGCCA	
77519 P	C	A	ATGACGTGGCAGACCTGCCTCCCTCGTCY	
77519 P	T	A	CGCGCCGAGGTTGCCTCCCTCGTCY	
77519 T	C	A	GCCAGACGAGGGAGGCAGGGCCGAGTTTCACGCCCCCAACCCT	
77519 T	T	A	GCCAGACGAGGGAGGCAAGGCCGAGTTTCACGCCCCCAACCCT	
77519 IS	[CT]		AAGATCTTCCGAGGAGTGGGCAGGGAGGGCTTTGGAGGGTTGGGGGCGTGAAACTCGGCC[CT]TGCCTCCCTCGTC TGGCGAGTGCGCAGCCCGGAAGTGCGCGGCCAGTGCATCGGGCGGTG	
77531 I		S	CCTGCCTTTGGAGGTGCCTTTCCACCAAA	
77531 P	A	S	CGCGCCGAGGTTGGTATCGCTCTGGTAAY	
77531 P	G	S	ATGACGTGGCAGACCTGGTATCGCTCTGGTAY	
77531 T	A	S	TCTTTTACCAGAGCGATACCAATTGGTGGAAAGGCACCTCCAAAGGCAGGAC	
77531 T	G	S	TCTTTTACCAGAGCGATACCAGTTGGTGGAAAGGCACCTCCAAAGGCAGGAC	
77531 IS	[AG]		TGAATGCAGTCTGGATTTCATACCACTTAATTTAACTCTTCTTTTACCAGAGCGATACCA[AG]TTGGTGGAAAGGCACC TCCAAAGGCAGGACTGGACTAATTCCAAGCAACTATGGTAAGTG	
77536 I		S	AGACTGAGGCAAAGGTGCAAATAGACAGTGTGGATTTTC	
77536 P	C	S	ATGACGTGGCAGACGCCTGCAGGGTTAGAY	
77536 P	A	S	CGCGCCGAGGTCCTGCAGGGTTAGAATATY	
77536 T	C	S	GTATATATTCTAACCCTGCAGGCAAAATCCACACTGTCTATTTGCACCTTTGCCTCAGTCTGT	
77536 T	A	S	GTATATATTCTAACCCTGCAGGAAAAATCCACACTGTCTATTTGCACCTTTGCCTCAGTCTGT	
77536 IS	[CA]		AAGTGAGTTGGCTACAAAATAAAACGTCTGAGAAGTAAGTATATATTCTAACCCTGCAGG[CA]AAAATCCACACTGTCT ATTTGCACCTTTGCCTCAGTCTGTCCTTCATCCTTTCCCTGGCT	
77557 I		S	GGACCCAGAGGCACTTGTTATGCTTCCACACTAA	
77557 P	G	S	ATGACGTGGCAGACCGAAATGAAATTCTTAATTGAGAGAY	
77557 P	A	S	CGCGCCGAGGTGAAATGAAATTCTTAATTGAGAGAAY	
77557 T	G	S	CCAGTTCTCTCAATTAAGAATTTCATTTCGTAGTGTGGAAGCATAACAAGTGCCTCTGGGTCCCC	
77557 T	A	S	CCAGTTCTCTCAATTAAGAATTTCATTTCATAGTGTGGAAGCATAACAAGTGCCTCTGGGTCCCC	
77557 IS	[GA]		GGCTTTTCTTTTTTTTTTTTTTCCTGGTGTCCAGTTCTCTCAATTAAGAATTTCATTT[GA]TAGTGTGGAAGCATAAC AAGTGCCTCTGGGTCCCCAGTCTTGGTGCTGTGAATGGGGTTA	
77569 I		A	GGAGGAGTCTCAGCTTCACATTCTTGTTTTTCTCTAAAGTTGATTTGAGAAATAA	
77569 P	C	A	ATGACGTGGCAGACCGATGTGTCTTTGCCGY	
77569 P	T	A	CGCGCCGAGGTGATGTGTCTTTGCCGY	
77569 T	C	A	AGTCCGGCAAAGACACATCGTATTTCTCAAATCAACTTTAGAGAAAAACAAGAATGTGAAGCTGAGACTCCTCCAG	
77569 T	T	A	AGTCCGGCAAAGACACATCATATTTCTCAAATCAACTTTAGAGAAAAACAAGAATGTGAAGCTGAGACTCCTCCAG	
77569 IS	[CT]		TTGACTGGAGGAGTCTCAGCTTCACATTCTTGTTTTTCTCTAAAGTTGATTTGAGAAATA[CT]GATGTGTCTTTGCCGG ACTTTCAAAGAGATATAAATCATAAATTAAAAACAACAACAAAA	
77654 I		A	AGTGACTGCAACTTCACTTTGGAAAACAGTAGTCTGCAGC	
77654 P	T	A	CGCGCCGAGGTGGGGAGACAAAGGGY	
77654 P	A	A	ATGACGTGGCAGACAGGGGAGACAAAGGGY	
77654 T	T	A	TTCTCCCTTTGTCTCCCCACTGCAGACTACTGTTTTCCAAAGTGAAGTTGCAGTCACTCT	
77654 T	A	A	TTCTCCCTTTGTCTCCCCTCTGCAGACTACTGTTTTCCAAAGTGAAGTTGCAGTCACTCT	
77654 IS	[TA]		GCTTCGTCCGGGGCCTCGGCAGAGTGACTGCAACTTCACTTTGGAAAACAGTAGTCTGCAG[TA]GGGGAGACAAAGGG AGAAAACACCACGGCTCAAGCCACAGAGTCCCCATCCCAGCAAGAC	
77662 I		S	GTGTTTCTTTGAGGCGCAGCTCCATGGTTTT	
77662 P	T	S	CGCGCCGAGGATAGGACACATAGGCCTCY	
77662 P	G	S	ATGACGTGGCAGACCTAGGACACATAGGCCTY	
77662 T	T	S	GCCTGAGGCCTATGTGTCCTATAAACCATGGAGCTGCGCCTCAAAGAAACACCT	
77662 T	G	S	GCCTGAGGCCTATGTGTCCTAGAAACCATGGAGCTGCGCCTCAAAGAAACACCT	
77662 IS	[TG]		GCCCCGGCTGGAAAATGGGCACAACCTGGACCCTACGGTGCCTGAGGCCTATGTGTCCTA[TG]AAACCATGGAGCTG CGCCTCAAAGAAACACCTCCCGGTGTCCACCCATCAGACACCATGC	
77677 I		A	GGTACATCTAGCCTGATGAGGCTGGCTCCAT	
77677 P	G	A	ATGACGTGGCAGACGTCAGTTGTTCACAAACTGY	
77677 P	A	A	CGCGCCGAGGATCAGTTGTTCACAAACTGY	
77677 T	G	A	AGGCACAGTTTGTGAACAACTGACTGGAGCCAGCCTCATCAGGCTAGATGTACCTA	
77677 T	A	A	AGGCACAGTTTGTGAACAACTGATTGGAGCCAGCCTCATCAGGCTAGATGTACCTA	
77677 IS	[GA]		ATGTTTTTGAGATCCATGCTGGTTGCTATAGGTACATCTAGCCTGATGAGGCTGGCTCCA[GA]TCAGTTGTTCACAAA CTGTGCCTTGTGAAACCTTAGTGGTTCCCCTTGTCACCTTGAAGA	
77706 I		A	TGAACGAACTTCACAGTCTCATGATCGACGCCAA	
77706 P	C	A	ATGACGTGGCAGACCGAAAGGAGGGAAGGTY	
77706 P	T	A	CGCGCCGAGGTGAAAGGAGGGAAGGTGY	
77706 T	C	A	TACACACCTTCCCTCCTTTCGTGGCGTCGATCATGAGACTGTGAAGTTCGTTCATG	
77706 T	T	A	TACACACCTTCCCTCCTTTCATGGCGTCGATCATGAGACTGTGAAGTTCGTTCATG	

FIGURE 129D

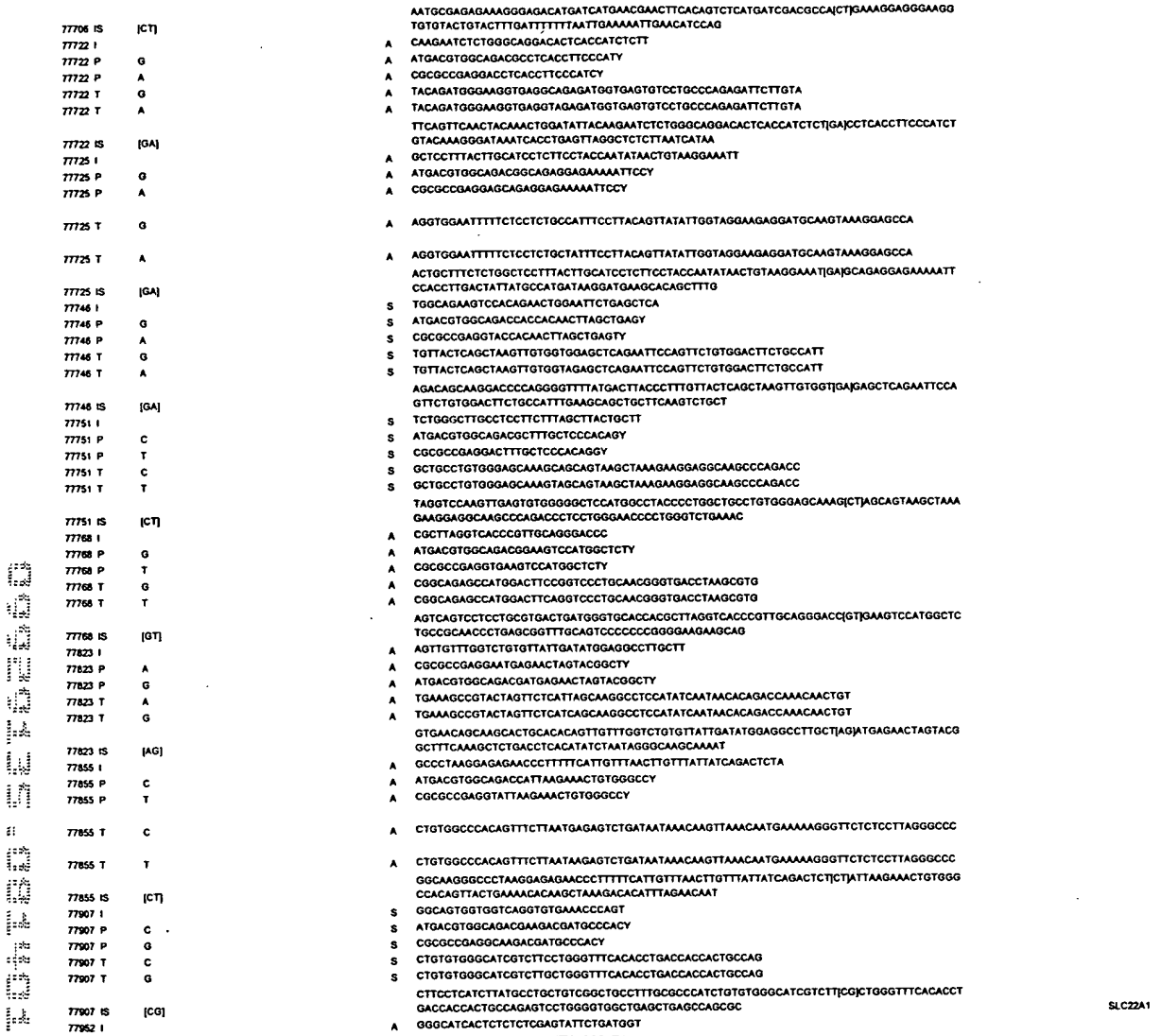

77706 IS [CT] AATGCGAGAGAAAGGGAGACATGATCATGAACGAACTTCACAGTCTCATGATCGACGCCA[CT]GAAAGGAGGGAAGG TGTGTACTGTACTTTGATTTTTTTAATTGAAAAATTGAACATCCAG
77722 I A CAAGAATCTCTGGGCAGGACACTCACCATCTCTT
77722 P G A ATGACGTGGCAGACGCCTCACCTTCCCATY
77722 P A A CGCGCCGAGGACCTCACCTTCCCATCY
77722 T G A TACAGATGGGAAGGTGAGGCAGAGATGGTGAGTGTCCTGCCCAGAGATTCTTGTA
77722 T A A TACAGATGGGAAGGTGAGGTAGAGATGGTGAGTGTCCTGCCCAGAGATTCTTGTA
77722 IS [GA] TTCAGTTCAACTACAAACTGGATATTACAAGAATCTCTGGGCAGGACACTCACCATCTCT[GA]CCTCACCTTCCCATCT GTACAAAGGGATAAATCACCTGAGTTAGGCTCTCTTAATCATAA
77725 I A GCTCCTTTACTTGCATCCTCTTCCTACCAATATAACTGTAAGGAAATT
77725 P G A ATGACGTGGCAGACGGCAGAGGAGAAAAATTCCY
77725 P A A CGCGCCGAGGAGCAGAGGAGAAAAATTCCY
77725 T G A AGGTGGAATTTTTCTCCTCTGCCATTTCCTTACAGTTATATTGGTAGGAAGAGGATGCAAGTAAAGGAGCCA
77725 T A A AGGTGGAATTTTTCTCCTCTGCTATTTCCTTACAGTTATATTGGTAGGAAGAGGATGCAAGTAAAGGAGCCA
77725 IS [GA] ACTGCTTTCTCTGGCTCCTTTACTTGCATCCTCTTCCTACCAATATAACTGTAAGGAAAT[GA]GCAGAGGAGAAAAATT CCACCTTGACTATTATGCCATGATAAGGATGAAGCACAGCTTTG
77746 I S TGGCAGAAGTCCACAGAACTGGAATTCTGAGCTCA
77746 P G S ATGACGTGGCAGACCACCACAACTTAGCTGAGY
77746 P A S CGCGCCGAGGTACCACAACTTAGCTGAGTY
77746 T G S TGTTACTCAGCTAAGTTGTGGTGGAGCTCAGAATTCCAGTTCTGTGGACTTCTGCCATT
77746 T A S TGTTACTCAGCTAAGTTGTGGTAGAGCTCAGAATTCCAGTTCTGTGGACTTCTGCCATT
77748 IS [GA] AGACAGCAAGGACCCCAGGGGTTTTATGACTTACCCTTTGTTACTCAGCTAAGTTGTGGT[GA]GAGCTCAGAATTCCA GTTCTGTGGACTTCTGCCATTTGAAGCAGCTGCTTCAAGTCTGCT
77751 I S TCTGGGCTTGCCTCCTTCTTTAGCTTACTGCTT
77751 P C S ATGACGTGGCAGACGCTTTGCTCCCACAGY
77751 P T S CGCGCCGAGGACTTTGCTCCCACAGGY
77751 T C S GCTGCCTGTGGGAGCAAAGCAGCAGTAAGCTAAAGAAGGAGGCAAGCCCAGACC
77751 T T S GCTGCCTGTGGGAGCAAAGTAGCAGTAAGCTAAAGAAGGAGGCAAGCCCAGACC
77751 IS [CT] TAGGTCCAAGTTGAGTGTGGGGGCTCCATGGCCTACCCCTGGCTGCCTGTGGGAGCAAAG[CT]AGCAGTAAGCTAAA GAAGGAGGCAAGCCCAGACCCTCCTGGGAACCCCTGGGTCTGAAAC
77768 I A CGCTTAGGTCACCCGTTGCAGGGACCC
77768 P G A ATGACGTGGCAGACGGAAGTCCATGGCTCTY
77768 P T A CGCGCCGAGGTGAAGTCCATGGCTCTY
77768 T G A CGGCAGAGCCATGGACTTCCGGTCCCTGCAACGGGTGACCTAAGCGTG
77768 T T A CGGCAGAGCCATGGACTTCAGGTCCCTGCAACGGGTGACCTAAGCGTG
77768 IS [GT] AGTCAGTCCTCCTGCGTGACTGATGGGTGCACCACGCTTAGGTCACCCGTTGCAGGGACC[GT]GAAGTCCATGGCTC TGCCGCAACCCTGAGCGGTTTGCAGTCCCCCCCGGGGAAGAAGCAG
77823 I A AGTTGTTTGGTCTGTGTTATTGATATGGAGGCCTTGCTT
77823 P A A CGCGCCGAGGAATGAGAACTAGTACGGCTY
77823 P G A ATGACGTGGCAGACGATGAGAACTAGTACGGCTY
77823 T A A TGAAAGCCGTACTAGTTCTCATTAGCAAGGCCTCCATATCAATAACACAGACCAAACAACTGT
77823 T G A TGAAAGCCGTACTAGTTCTCATCAGCAAGGCCTCCATATCAATAACACAGACCAAACAACTGT
77823 IS [AG] GTGAACAGCAAGCACTGCACACAGTTGTTTGGTCTGTGTTATTGATATGGAGGCCTTGCT[AG]ATGAGAACTAGTACG GCTTTCAAAGCTCTGACCTCACATATCTAATAGGGCAAGCAAAAT
77855 I A GCCCTAAGGAGAGAACCCTTTTTCATTGTTTAACTTGTTTATTATCAGACTCTA
77855 P C A ATGACGTGGCAGACCATTAAGAAACTGTGGGCCY
77855 P T A CGCGCCGAGGTATTAAGAAACTGTGGGCCY
77855 T C A CTGTGGCCCACAGTTTCTTAATGAGAGTCTGATAATAAACAAGTTAAACAATGAAAAAGGGTTCTCTCCTTAGGGCCC
77855 T T A CTGTGGCCCACAGTTTCTTAATAAGAGTCTGATAATAAACAAGTTAAACAATGAAAAAGGGTTCTCTCCTTAGGGCCC
77855 IS [CT] GGCAAGGGCCCTAAGGAGAGAACCCTTTTTCATTGTTTAACTTGTTTATTATCAGACTC[CT]ATTAAGAAACTGTGGG CCACAGTTACTGAAAACACAAGCTAAAGACACATTTAGAACAAT
77907 I S GGCAGTGGTGGTCAGGTGTGAAACCCAGT
77907 P C S ATGACGTGGCAGACGAAGACGATGCCCACY
77907 P G S CGCGCCGAGGCAAGACGATGCCCACY
77907 T C S CTGTGTGGGCATCGTCTTCCTGGGTTTCACACCTGACCACCACTGCCAG
77907 T G S CTGTGTGGGCATCGTCTTGCTGGGTTTCACACCTGACCACCACTGCCAG
77907 IS [CG] CTTCCTCATCTTATGCCTGCTGTCGGCTGCCTTTGCGCCCATCTGTGTGGGCATCGTCTT[CG]CTGGGTTTCACACCT GACCACCACTGCCAGAGTCCTGGGGGTGGCTGAGCTGAGCCAGCGC SLC22A1
77952 I A GGGCATCACTCTCTCTCGAGTATTCTGATGGT
77952 P A A CGCGCCGAGGATCAGGAGATTCACGGATY
77952 P C A ATGACGTGGCAGACCTCAGGAGATTCACGGAY
77952 T A A TTCCATCCGTGAATCTCCTGATCCATCAGAATACTCGAGAGAGAGTGATGCCCAA
77952 T C A TTCCATCCGTGAATCTCCTGAGCCATCAGAATACTCGAGAGAGAGTGATGCCCAA
77952 IS [AC] TTCATGAATACACTCAGTCAGTATTTCTTGGGCATCACTCTCTCTCGAGTATTCTGATGG[AC]TCAGGAGATTCACGGA TGGAAAGGCACTGCCTCGGCCCTGAAGCTGCTCATGGTTCTGCA
77954 I S CACAACCTCTAGGCATCATCTCAGCTGACAGTGAA
77954 P A S CGCGCCGAGGTGCCATCCTGGGGY
77954 P G S ATGACGTGGCAGACCGCCATCCTGGGGY
77954 T A S TCTTCCCCAGGATGGCATCACTGTCAGCTGAGATGATGCCTAGAGGTTGTGGA
77954 T G S TCTTCCCCAGGATGGCGTCACTGTCAGCTGAGATGATGCCTAGAGGTTGTGGA
77954 IS [AG] GAAGGAGCATCACAGGCTTCCAGGAGAGCCCGGGATCCGGGGGGTCTTCCCCAGGATGGC[AG]TCACTGTCAGCTG AGATGATGCCTAGAGGTTGTGGAGGTTGTGCAAGACAAGGCCTCCAG
77988 I S GGAGCCCGTCGAAGGCAGTAAGAAAGAGTGTT
77988 P T S CGCGCCGAGGATCATCGGAGAGGAACAAY
77988 P C S ATGACGTGGCAGACGTCATCGGAGAGGAACAY
77988 T T S TTGTTTGTTCCTCTCCGATGATACACTCTTTCTTACTGCCTTCGACGGGCTCCTG
77988 T C S TTGTTTGTTCCTCTCCGATGACACACTCTTTCTTACTGCCTTCGACGGGCTCCTG
77988 IS [TC] GGAGAAGTCTGTGGTGAGTGGCTGTGATGGAATCTCTGCTTGTTTGTTCCTCTCCGATGA[TC]ACACTCTTTCTTACT GCCTTCGACGGGCTCCTGGAGCTCTGGGACCTGCAGCATGGTTGT TEP1
77995 I A CACTGCTGCATCGAGGGTAGCAAGAATGAGAA
77995 P C A ATGACGTGGCAGACCTGAACCCTGGAGTACTTY
77995 P T A CGCGCCGAGGTTGAACCCTGGAGTACTTY
77995 T C A TATAAAGTACTCCAGGGTTCAGTCTCATTCTTGCTACCCTCGATGCAGCAGTGCA
77995 T T A TATAAAGTACTCCAGGGTTCAATCTCATTCTTGCTACCCTCGATGCAGCAGTGCA
77995 IS [CT] GTGTATGTCTTTTTCAAACTGTTCATTTGCACTGCTGCATCGAGGGTAGCAAGAATGAGA[CT]TGAACCCTGGAGTACT TTATACAAATTATAGAAGAAGTTTGTAGAATTTTTTTGCCAGGT
78051 I S CCAGCATTCTTTACTTCCTGCACTAACTGATACACCAGCT
78051 P C S ATGACGTGGCAGACGGAAAATAGGACAGAGGCY
78051 P T S CGCGCCGAGGAGAAAATAGGACAGAGGCAY
78051 T C S TGAATGCCTCTGTCCTATTTTCCGCTGGTGTATCAGTTAGTGCAGGAAGTAAAGAATGCTGGAA
78051 T T S TGAATGCCTCTGTCCTATTTTCTGCTGGTGTATCAGTTAGTGCAGGAAGTAAAGAATGCTGGAA
78051 IS [CT] GAGTGCTACAACATAAAACTGGGAAATATGGCCCTATCTGAATGCCTCTGTCCTATTTTC[CT]GCTGGTGTATCAGTTA GTGCAGGAAGTAAAGAATGCTGGAAAGTTGAATCAGAAATTGAA
78330 I A AAGAGGGCTATTACCGTTACTAAGGGATTGGTATACTT
78330 P C A CGCGCCGAGGCTTATAAGGGATGGGTAGCY

FIGURE 129D

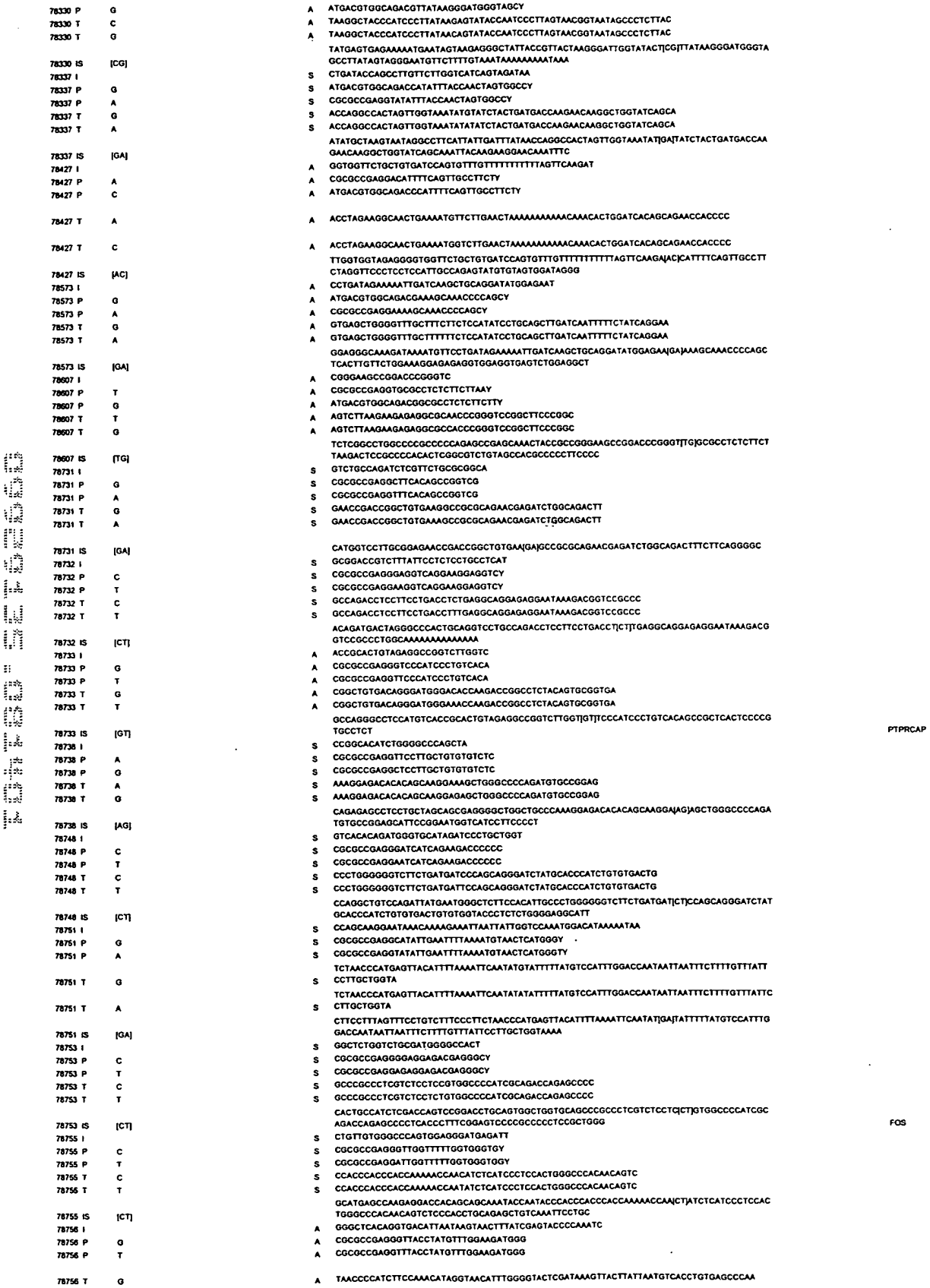

78330 P G A ATGACGTGGCAGACGTTATAAGGGATGGGTAGCY
78330 T C A TAAGGCTACCCATCCCTTATAAGAGTATACCAATCCCTTAGTAACGGTAATAGCCCTCTTAC
78330 T G A TAAGGCTACCCATCCCTTATAACAGTATACCAATCCCTTAGTAACGGTAATAGCCCTCTTAC
TATGAGTGAGAAAAATGAATAGTAAGAGGGCTATTACCGTTACTAAGGGATTGGTATACTYCGYTTATAAGGGATGGGTA
78330 IS [CG] GCCTTATAGTAGGGAATGTTCTTTTGTAAATAAAAAAAAATAAA
78337 I S CTGATACCAGCCTTGTTCTTGGTCATCAGTAGATAA
78337 P G S ATGACGTGGCAGACCATATTTACCAACTAGTGGCCY
78337 P A S CGCGCCGAGGTATATTTACCAACTAGTGGCCY
78337 T G S ACCAGGCCACTAGTTGGTAAATATGTATCTACTGATGACCAAGAACAAGGCTGGTATCAGCA
78337 T A S ACCAGGCCACTAGTTGGTAAATATATATCTACTGATGACCAAGAACAAGGCTGGTATCAGCA
ATATGCTAAGTAATAGGCCTTCATTATTGATTTATAACCAGGCCACTAGTTGGTAAATATYGATATCTACTGATGACCAA
78337 IS [GA] GAACAAGGCTGGTATCAGCAAATTACAAGAAGGAACAAATTTC
78427 I A GGTGGTTCTGCTGTGATCCAGTGTTTGTTTTTTTTTTTAGTTCAAGAT
78427 P A A CGCGCCGAGGACATTTTCAGTTGCCTTCTY
78427 P C A ATGACGTGGCAGACCCATTTTCAGTTGCCTTCTY
78427 T A A ACCTAGAAGGCAACTGAAAATGTTCTTGAACTAAAAAAAAAAACAAACACTGGATCACAGCAGAACCACCCC
78427 T C A ACCTAGAAGGCAACTGAAAATGGTCTTGAACTAAAAAAAAAAACAAACACTGGATCACAGCAGAACCACCCC
TTGGTGGTAGAGGGGTGGTTCTGCTGTGATCCAGTGTTTGTTTTTTTTTTTAGTTCAAGAYACYCATTTTCAGTTGCCTT
78427 IS [AC] CTAGGTTCCCTCCTCCATTGCCAGAGTATGTGTAGTGGATAGGG
78573 I A CCTGATAGAAAAATTGATCAAGCTGCAGGATATGGAGAAT
78573 P G A ATGACGTGGCAGACGAAAGCAAACCCCAGCY
78573 P A A CGCGCCGAGGAAAAGCAAACCCCAGCY
78573 T G A GTGAGCTGGGGTTTGCTTTCTTCTCCATATCCTGCAGCTTGATCAATTTTTCTATCAGGAA
78573 T A A GTGAGCTGGGGTTTGCTTTTTTCTCCATATCCTGCAGCTTGATCAATTTTTCTATCAGGAA
GGAGGGCAAAGATAAAATGTTCCTGATAGAAAAATTGATCAAGCTGCAGGATATGGAGAAYGAYAAAGCAAACCCCAGC
78573 IS [GA] TCACTTGTTCTGGAAAGGAGAGAGGTGGAGGTGAGTCTGGAGGCT
78607 I A CGGGAAGCCGGACCCGGGTC
78607 P T A CGCGCCGAGGTGCGCCTCTCTTCTTAAY
78607 P G A ATGACGTGGCAGACGGCGCCTCTCTTCTTY
78607 T T A AGTCTTAAGAAGAGAGGCGCAACCCGGGTCCGGCTTCCCGGC
78607 T G A AGTCTTAAGAAGAGAGGCGCCACCCGGGTCCGGCTTCCCGGC
TCTCGGCCTGGCCCCGCCCCCAGAGCCGAGCAAACTACCGCCGGGAAGCCGGACCCGGGTYTGYGCGCCTCTCTTCT
78607 IS [TG] TAAGACTCCGCCCCACACTCGGCGTCTGTAGCCACGCCCCCTTCCCC
78731 I S GTCTGCCAGATCTCGTTCTGCGCGGCA
78731 P G S CGCGCCGAGGCTTCACAGCCGGTCG
78731 P A S CGCGCCGAGGTTTCACAGCCGGTCG
78731 T G S GAACCGACCGGCTGTGAAGGCCGCGCAGAACGAGATCTGGCAGACTT
78731 T A S GAACCGACCGGCTGTGAAAGCCGCGCAGAACGAGATCTGGCAGACTT
CATGGTCCTTGCGGAGAACCGACCGGCTGTGAAYGAYGCCGCGCAGAACGAGATCTGGCAGACTTTCTTCAGGGGC
78731 IS [GA]
78732 I S GCGGACCGTCTTTATTCCTCTCCTGCCTCAT
78732 P C S CGCGCCGAGGGAGGTCAGGAAGGAGGTCY
78732 P T S CGCGCCGAGGAAGGTCAGGAAGGAGGTCY
78732 T C S GCCAGACCTCCTTCCTGACCTCTGAGGCAGGAGAGGAATAAAGACGGTCCGCCC
78732 T T S GCCAGACCTCCTTCCTGACCTTTGAGGCAGGAGAGGAATAAAGACGGTCCGCCC
ACAGATGACTAGGGCCCACTGCAGGTCCTGCCAGACCTCCTTCCTGACCTYCTYTGAGGCAGGAGAGGAATAAAGACG
78732 IS [CT] GTCCGCCCTGGCAAAAAAAAAAAAA
78733 I A ACCGCACTGTAGAGGCCGGTCTTGGTC
78733 P G A CGCGCCGAGGGTCCCATCCCTGTCACA
78733 P T A CGCGCCGAGGTTCCCATCCCTGTCACA
78733 T G A CGGCTGTGACAGGGATGGGACACCAAGACCGGCCTCTACAGTGCGGTGA
78733 T T A CGGCTGTGACAGGGATGGGAAACCAAGACCGGCCTCTACAGTGCGGTGA
GCCAGGGCCTCCATGTCACCGCACTGTAGAGGCCGGTCTTGGTYGTYTCCCATCCCTGTCACAGCCGCTCACTCCCCG
78733 IS [GT] TGCCTCT PTPRCAP
78738 I S CCGGCACATCTGGGGCCCAGCTA
78738 P A S CGCGCCGAGGTTCCTTGCTGTGTGTCTC
78738 P G S CGCGCCGAGGCTCCTTGCTGTGTGTCTC
78738 T A S AAAGGAGACACACAGCAAGGAAAGCTGGGCCCCAGATGTGCCGGAG
78738 T G S AAAGGAGACACACAGCAAGGAGAGCTGGGCCCCAGATGTGCCGGAG
CAGAGAGCCTCCTGCTAGCAGCGAGGGGCTGGCTGCCCAAAGGAGACACACAGCAAGGAYAGYAGCTGGGCCCCAGA
78738 IS [AG] TGTGCCGGAGCATTCCGGAATGGTCATCCTTCCCCT
78748 I S GTCACACAGATGGGTGCATAGATCCCTGCTGGT
78748 P C S CGCGCCGAGGGATCATCAGAAGACCCCCC
78748 P T S CGCGCCGAGGAATCATCAGAAGACCCCCC
78748 T C S CCCTGGGGGGTCTTCTGATGATCCCAGCAGGGATCTATGCACCCATCTGTGTGACTG
78748 T T S CCCTGGGGGGTCTTCTGATGATTCCAGCAGGGATCTATGCACCCATCTGTGTGACTG
CCAGGCTGTCCAGATTATGAATGGGCTCTTCCACATTGCCCTGGGGGGTCTTCTGATGATYCTYCCAGCAGGGATCTAT
78748 IS [CT] GCACCCATCTGTGTGACTGTGTGGTACCCTCTCTGGGGAGGCATT
78751 I S CCAGCAAGGAATAAACAAAAGAAATTAATTATTGGTCCAAATGGACATAAAAATAA
78751 P G S CGCGCCGAGGCATATTGAATTTTAAAATGTAACTCATGGGY
78751 P A S CGCGCCGAGGTATATTGAATTTTAAAATGTAACTCATGGGTY
TCTAACCCATGAGTTACATTTTAAAATTCAATATGTATTTTTATGTCCATTTGGACCAATAATTAATTTCTTTTGTTTATT
78751 T G S CCTTGCTGGTA
TCTAACCCATGAGTTACATTTTAAAATTCAATATATATTTTTATGTCCATTTGGACCAATAATTAATTTCTTTTGTTTATTC
78751 T A S CTTGCTGGTA
CTTCCTTTAGTTTCCTGTCTTTCCCTTCTAACCCATGAGTTACATTTTAAAATTCAATATYGATATTTTTATGTCCATTTG
78751 IS [GA] GACCAATAATTAATTTCTTTTGTTTATTCCTTGCTGGTAAAA
78753 I S GGCTCTGGTCTGCGATGGGGCCACT
78753 P C S CGCGCCGAGGGGAGGAGACGAGGGCY
78753 P T S CGCGCCGAGGAGAGGAGACGAGGGCY
78753 T C S GCCCGCCCTCGTCTCCTCCGTGGCCCCATCGCAGACCAGAGCCCC
78753 T T S GCCCGCCCTCGTCTCCTCTGTGGCCCCATCGCAGACCAGAGCCCC
CACTGCCATCTCGACCAGTCCGGACCTGCAGTGGCTGGTGCAGCCCGCCCTCGTCTCCTCYCTYGTGGCCCCATCGC
78753 IS [CT] AGACCAGAGCCCCTCACCCTTTCGGAGTCCCCGCCCCCTCCGCTGGG FOS
78755 I S CTGTTGTGGGCCCAGTGGAGGGATGAGATT
78755 P C S CGCGCCGAGGGTTGGTTTTTGGTGGGTGY
78755 P T S CGCGCCGAGGATTGGTTTTTGGTGGGTGGY
78755 T C S CCACCCACCCACCAAAAACCAACATCTCATCCCTCCACTGGGCCCACAACAGTC
78756 T T S CCACCCACCCACCAAAAACCAATATCTCATCCCTCCACTGGGCCCACAACAGTC
GCATGAGCCAAGAGGACCACAGCAGCAAATACCAATACCCACCCACCCACCAAAAACCAAYCTYATCTCATCCCTCCAC
78755 IS [CT] TGGGCCCACAACAGTCTCCCACCTGCAGAGCTGTCAAATTCCTGC
78756 I A GGGCTCACAGGTGACATTAATAAGTAACTTTATCGAGTACCCCAAATC
78756 P G A CGCGCCGAGGGTTACCTATGTTTGGAAGATGGG
78756 P T A CGCGCCGAGGTTTACCTATGTTTGGAAGATGGG
78756 T G A TAACCCCATCTTCCAAACATAGGTAACATTTGGGGTACTCGATAAAGTTACTTATTAATGTCACCTGTGAGCCCAA

FIGURE 129D

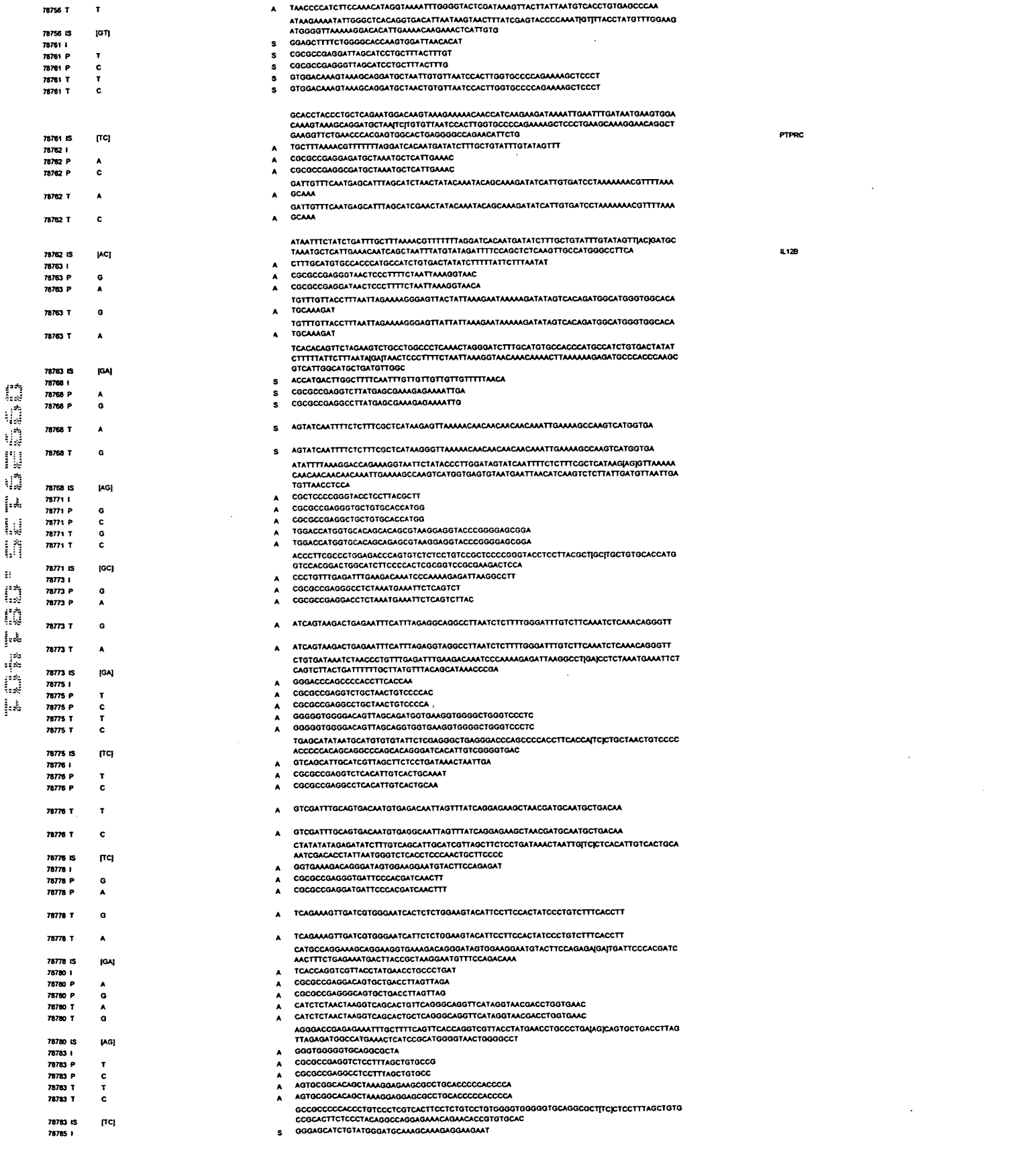
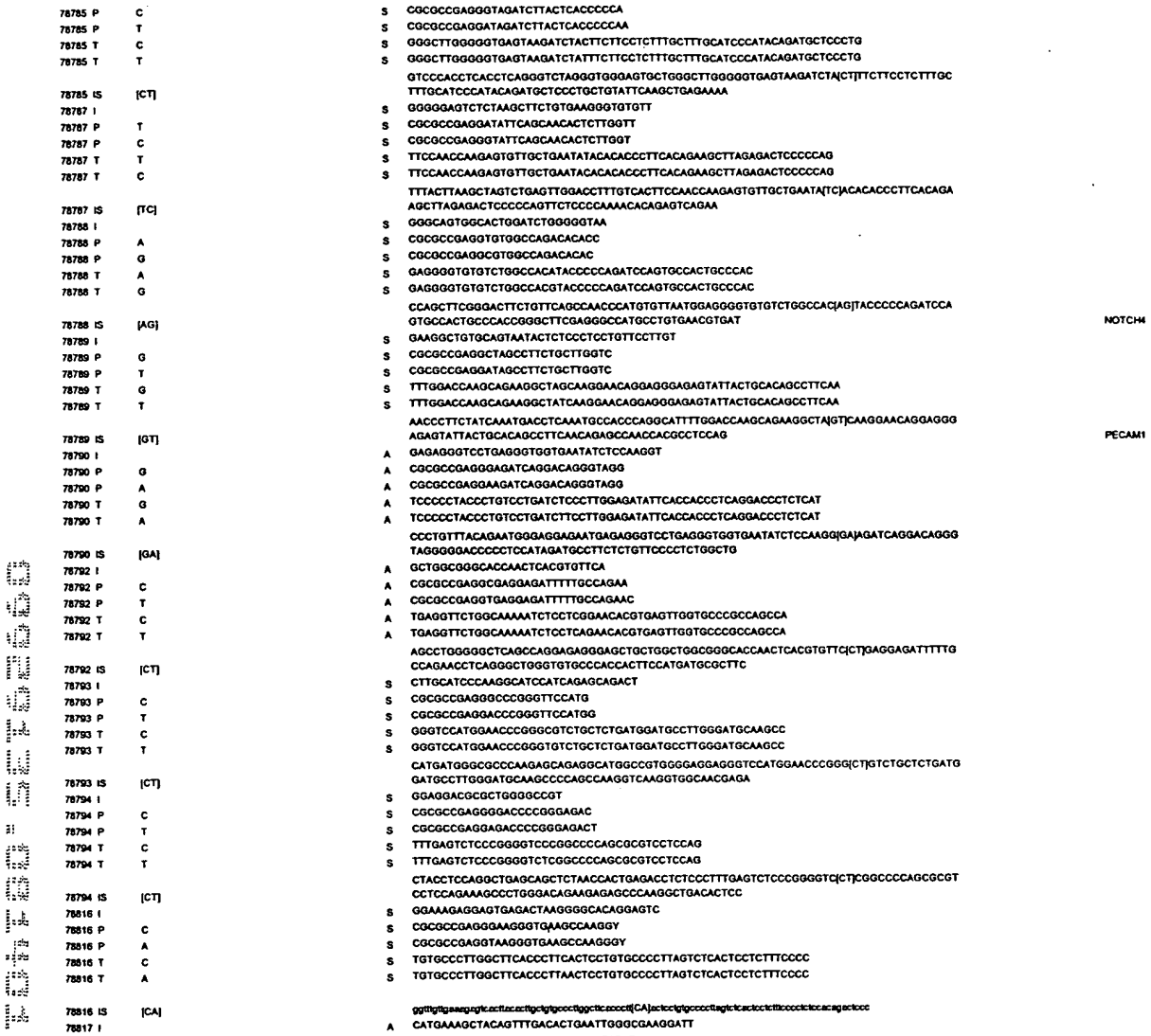
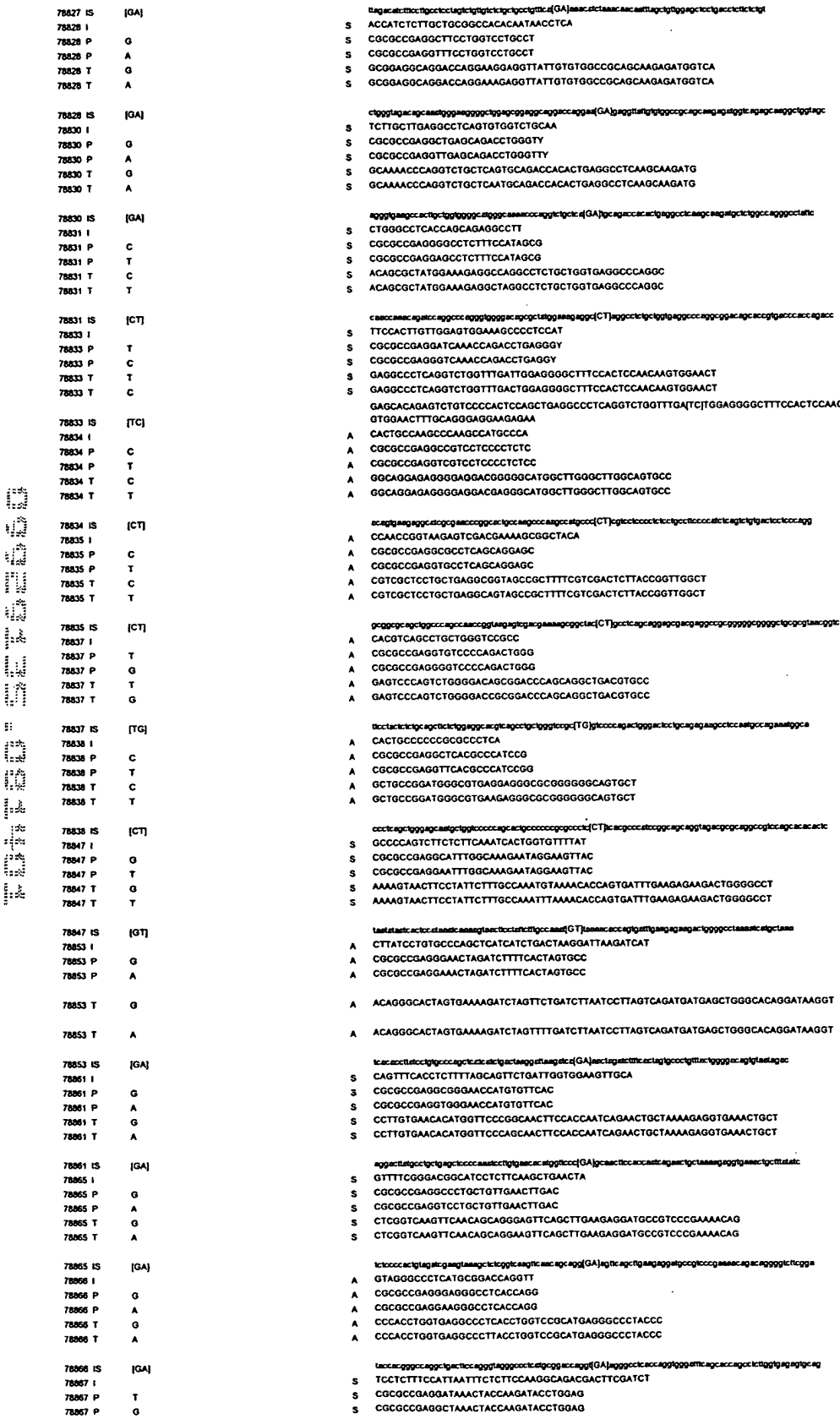

78756 T T A TAACCCCATCTTCCAAACATAGGTAAAATTTGGGGTACTCGATAAAGTTACTTATTAATGTCACCTGTGAGCCCAA
ATAAGAAAATATTGGGCTCACAGGTGACATTAATAAGTAACTTTATCGAGTACCCCAAATTGTTTACCTATGTTTGGAAG
78756 IS [GT] ATGGGGTTAAAAAGGACACATTGAAAACAAGAAACTCATTGTG
78761 I S GGAGCTTTTCTGGGGCACCAAGTGGATTAACACAT
78761 P T S CGCGCCGAGGATTAGCATCCTGCTTTACTTTGT
78761 P C S CGCGCCGAGGGTTAGCATCCTGCTTTACTTTG
78761 T T S GTGGACAAAGTAAAGCAGGATGCTAATTGTGTTAATCCACTTGGTGCCCCAGAAAAGCTCCCT
78761 T C S GTGGACAAAGTAAAGCAGGATGCTAACTGTGTTAATCCACTTGGTGCCCCAGAAAAGCTCCCT
GCACCTACCCTGCTCAGAATGGACAAGTAAAGAAAAACAACCATCAAGAAGATAAAATTGAATTTGATAATGAAGTGGA
CAAAGTAAAGCAGGATGCTAA[T/C]TGTGTTAATCCACTTGGTGCCCCAGAAAAGCTCCCTGAAGCAAAGGAACAGGCT
78761 IS [TC] GAAGGTTCTGAACCCACGAGTGGCACTGAGGGGCCAGAACATTCTG PTPRC
78762 I A TGCTTTAAAACGTTTTTTTAGGATCACAATGATATCTTTGCTGTATTTGTATAGTTT
78762 P A A CGCGCCGAGGAGATGCTAAATGCTCATTGAAAC
78762 P C A CGCGCCGAGGCGATGCTAAATGCTCATTGAAAC
GATTGTTTCAATGAGCATTTAGCATCTAACTATACAAATACAGCAAAGATATCATTGTGATCCTAAAAAAACGTTTTAAA
78762 T A A GCAAA
GATTGTTTCAATGAGCATTTAGCATCGAACTATACAAATACAGCAAAGATATCATTGTGATCCTAAAAAAACGTTTTAAA
78762 T C A GCAAA
ATAATTTCTATCTGATTTGCTTTAAAACGTTTTTTTAGGATCACAATGATATCTTTGCTGTATTTGTATAGTT[A/C]GATGC
78762 IS [AC] TAAATGCTCATTGAAACAATCAGCTAATTTATGTATAGATTTTCCAGCTCTCAAGTTGCCATGGGCCTTCA IL12B
78763 I A CTTTGCATGTGCCACCCATGCCATCTGTGACTATATCTTTTTATTCTTTAATAT
78763 P G A CGCGCCGAGGGTAACTCCCTTTTCTAATTAAAGGTAAC
78763 P A A CGCGCCGAGGATAACTCCCTTTTCTAATTAAAGGTAACA
TGTTTGTTACCTTTAATTAGAAAAGGGAGTTACTATTAAAGAATAAAAAGATATAGTCACAGATGGCATGGGTGGCACA
78763 T G A TGCAAAGAT
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78763 T A A TGCAAAGAT
TCACACAGTTCTAGAAGTCTGCCTGGCCCTCAAACTAGGGATCTTTGCATGTGCCACCCATGCCATCTGTGACTATAT
CTTTTTATTCTTTAATA[G/A]TAACTCCCTTTTCTAATTAAAGGTAACAAACAAAACTTAAAAAAGAGATGCCCACCCAAGC
78763 IS [GA] GTCATTGGCATGCTGATGTTGGC
78768 I S ACCATGACTTGGCTTTTCAATTTGTTGTTGTTGTTTTTAACA
78768 P A S CGCGCCGAGGTCTTATGAGCGAAAGAGAAAATTGA
78768 P G S CGCGCCGAGGCCTTATGAGCGAAAGAGAAAATTG
78768 T A S AGTATCAATTTTCTCTTTCGCTCATAAGAGTTAAAAACAACAACAACAACAAATTGAAAAGCCAAGTCATGGTGA
78768 T G S AGTATCAATTTTCTCTTTCGCTCATAAGGGTTAAAAACAACAACAACAACAAATTGAAAAGCCAAGTCATGGTGA
ATATTTTAAAGGACCAGAAAGGTAATTCTATACCCTTGGATAGTATCAATTTTCTCTTTCGCTCATAAG[A/G]GTTAAAAA
CAACAACAACAACAAATTGAAAAGCCAAGTCATGGTGAGTGTAATGAATTAACATCAAGTCTCTTATTGATGTTAATTGA
78768 IS [AG] TGTTAACCTCCA
78771 I A CGCTCCCCGGGTACCTCCTTACGCTT
78771 P G A CGCGCCGAGGGTGCTGTGCACCATGG
78771 P C A CGCGCCGAGGCTGCTGTGCACCATGG
78771 T G A TGGACCATGGTGCACAGCACAGCGTAAGGAGGTACCCGGGGAGCGGA
78771 T C A TGGACCATGGTGCACAGCAGAGCGTAAGGAGGTACCCGGGGAGCGGA
ACCCTTCGCCCTGGAGACCCAGTGTCTCTCCTGTCCGCTCCCCGGGTACCTCCTTACGC[T/G]C[T/G]CTGTGTGCACCATG
78771 IS [GC] GTCCACGGACTGGCATCTTCCCCACTCGCGGTCCGCGAAGACTCCA
78773 I A CCCTGTTTGAGATTTGAAGACAAATCCCAAAAGAGATTAAGGCCTT
78773 P G A CGCGCCGAGGGCCTCTAAATGAAATTCTCAGTCT
78773 P A A CGCGCCGAGGACCTCTAAATGAAATTCTCAGTCTTAC
78773 T G A ATCAGTAAGACTGAGAATTTCATTTAGAGGCAGGCCTTAATCTCTTTTGGGATTTGTCTTCAAATCTCAAACAGGGTT
78773 T A A ATCAGTAAGACTGAGAATTTCATTTAGAGGTAGGCCTTAATCTCTTTTGGGATTTGTCTTCAAATCTCAAACAGGGTT
CTGTGATAAATCTAACCCTGTTTGAGATTTGAAGACAAATCCCAAAAGAGATTAAGGCCT[G/A]CCTCTAAATGAAATTCT
78773 IS [GA] CAGTCTTACTGATTTTTTGCTTATGTTTACAGCATAAACCCGA
78775 I A GGGACCCAGCCCCACCTTCACCAA
78775 P T A CGCGCCGAGGTCTGCTAACTGTCCCCAC
78775 P C A CGCGCCGAGGCCTGCTAACTGTCCCCA
78775 T T A GGGGGTGGGGACAGTTAGCAGATGGTGAAGGTGGGGCTGGGTCCCTC
78775 T C A GGGGGTGGGGACAGTTAGCAGGTGGTGAAGGTGGGGCTGGGTCCCTC
TGAGCATATAATGCATGTGTGTATTCTCGAGGGCTGAGGGACCCAGCCCCACCTTCACCA[T/C]CTGCTAACTGTCCCC
78775 IS [TC] ACCCCCACAGCAGGCCCAGCACAGGGATCACATTGTCGGGGTGAC
78776 I A GTCAGCATTGCATCGTTAGCTTCTCCTGATAAACTAATTGA
78776 P T A CGCGCCGAGGTCTCACATTGTCACTGCAAAT
78776 P C A CGCGCCGAGGCCTCACATTGTCACTGCAA
78776 T T A GTCGATTTGCAGTGACAATGTGAGACAATTAGTTTATCAGGAGAAGCTAACGATGCAATGCTGACAA
78776 T C A GTCGATTTGCAGTGACAATGTGAGGCAATTAGTTTATCAGGAGAAGCTAACGATGCAATGCTGACAA
CTATATATAGAGATATCTTTGTCAGCATTGCATCGTTAGCTTCTCCTGATAAACTAATTG[T/C]CTCACATTGTCACTGCA
78776 IS [TC] AATCGACACCTATTAATGGGTCTCACCTCCCAACTGCTTCCCC
78778 I A GGTGAAAGACAGGGATAGTGGAAGGAATGTACTTCCAGAGAT
78778 P G A CGCGCCGAGGGTGATTCCCACGATCAACTT
78778 P A A CGCGCCGAGGATGATTCCCACGATCAACTTT
78778 T G A TCAGAAAGTTGATCGTGGGAATCACTCTCTGGAAGTACATTCCTTCCACTATCCCTGTCTTTCACCTT
78778 T A A TCAGAAAGTTGATCGTGGGAATCATTCTCTGGAAGTACATTCCTTCCACTATCCCTGTCTTTCACCTT
CATGCCAGGAAAGCAGGAAGGTGAAAGACAGGGATAGTGGAAGGAATGTACTTCCAGAGA[G/A]TGATTCCCACGATC
78778 IS [GA] AACTTTCTGAGAAATGACTTACCGCTAAGGAATGTTTCCAGACAAA
78780 I A TCACCAGGTCGTTACCTATGAACCTGCCCTGAT
78780 P A A CGCGCCGAGGACAGTGCTGACCTTAGTTAGA
78780 P G A CGCGCCGAGGGCAGTGCTGACCTTAGTTAG
78780 T A A CATCTCTAACTAAGGTCAGCACTGTTCAGGGCAGGTTCATAGGTAACGACCTGGTGAAC
78780 T G A CATCTCTAACTAAGGTCAGCACTGCTCAGGGCAGGTTCATAGGTAACGACCTGGTGAAC
AGGGACCGAGAGAAATTTGCTTTTCAGTTCACCAGGTCGTTACCTATGAACCTGCCCTGA[A/G]CAGTGCTGACCTTAG
78780 IS [AG] TTAGAGATGGCCATGAAACTCATCCGCATGGGGTAACTGGGGCCT
78783 I A GGGTGGGGGTGCAGGCGCTA
78783 P T A CGCGCCGAGGTCTCCTTTAGCTGTGCCG
78783 P C A CGCGCCGAGGCCTCCTTTAGCTGTGCC
78783 T T A AGTGCGGCACAGCTAAAGGAGAAGCGCCTGCACCCCCACCCCA
78783 T C A AGTGCGGCACAGCTAAAGGAGGAGCGCCTGCACCCCCACCCCA
GCCGCCCCCACCCTGTCCCTCGTCACTTCCTCTGTCCTGTGGGGTGGGGGTGCAGGCGCT[T/C]CTCCTTTAGCTGTG
78783 IS [TC] CCGCACTTCTCCCTACAGGCCAGGAGAAACAGAACACCGTGTGCAC
78785 I S GGGAGCATCTGTATGGGATGCAAAGCAAAGAGGAAGAAT

FIGURE 129D




78827 IS [GA]
78828 I
78828 P G
78828 P A
78828 T G
78828 T A
78828 IS [GA]
78830 I
78830 P G
78830 P A
78830 T G
78830 T A
78830 IS [GA]
78831 I
78831 P C
78831 P T
78831 T C
78831 T T
78831 IS [CT]
78833 I
78833 P T
78833 P C
78833 T T
78833 T C
78833 IS [TC]
78834 I
78834 P C
78834 P T
78834 T C
78834 T T
78834 IS [CT]
78835 I
78835 P C
78835 P T
78835 T C
78835 T T
78835 IS [CT]
78837 I
78837 P T
78837 P G
78837 T T
78837 T G
78837 IS [TG]
78838 I
78838 P C
78838 P T
78838 T C
78838 T T
78838 IS [CT]
78847 I
78847 P G
78847 P T
78847 T G
78847 T T
78847 IS [GT]
78853 I
78853 P G
78853 P A
78853 T G
78853 T A
78853 IS [GA]
78861 I
78861 P G
78861 P A
78861 T G
78861 T A
78861 IS [GA]
78865 I
78865 P G
78865 P A
78865 T G
78865 T A
78865 IS [GA]
78866 I
78866 P G
78866 P A
78866 T G
78866 T A
78866 IS [GA]
78867 I
78867 P T
78867 P G
S ACCATCTCTTGCTGCGGCCACACAATAACCTCA
S CGCGCCGAGGCTTCCTGGTCCTGCCT
S CGCGCCGAGGTTTCCTGGTCCTGCCT
S GCGGAGGCAGGACCAGGAAGGAGGTTATTGTGTGGCCGCAGCAAGAGATGGTCA
S GCGGAGGCAGGACCAGGAAAGAGGTTATTGTGTGGCCGCAGCAAGAGATGGTCA
S TCTTGCTTGAGGCCTCAGTGTGGTCTGCAA
S CGCGCCGAGGCTGAGCAGACCTGGGTY
S CGCGCCGAGGTTGAGCAGACCTGGGTTY
S GCAAAACCCAGGTCTGCTCAGTGCAGACCACACTGAGGCCTCAAGCAAGATG
S GCAAAACCCAGGTCTGCTCAATGCAGACCACACTGAGGCCTCAAGCAAGATG
S CTGGGCCTCACCAGCAGAGGCCTT
S CGCGCCGAGGGCCTCTTTCCATAGCG
S CGCGCCGAGGAGCCTCTTTCCATAGCG
S ACAGCGCTATGGAAAGAGGCCAGGCCTCTGCTGGTGAGGCCCAGGC
S ACAGCGCTATGGAAAGAGGCTAGGCCTCTGCTGGTGAGGCCCAGGC
S TTCCACTTGTTGGAGTGGAAAGCCCCTCCAT
S CGCGCCGAGGATCAAACCAGACCTGAGGGY
S CGCGCCGAGGGTCAAACCAGACCTGAGGGY
S GAGGCCCTCAGGTCTGGTTTGATTGGAGGGGCTTTCCACTCCAACAAGTGGAACT
S GAGGCCCTCAGGTCTGGTTTGACTGGAGGGGCTTTCCACTCCAACAAGTGGAACT
GAGCACAGAGTCTGTCCCCACTCCAGCTGAGGCCCTCAGGTCTGGTTTGA[TC]TGGAGGGGCTTTCCACTCCAACAA
GTGGAACTTTGCAGGGAGGAAGAGAA
A CACTGCCAAGCCCAAGCCATGCCCA
A CGCGCCGAGGCCGTCCTCCCCTCTC
A CGCGCCGAGGTCGTCCTCCCCTCTC
A GGCAGGAGAGGGGAGGACGGGGGCATGGCTTGGGCTTGGCAGTGCC
A GGCAGGAGAGGGGAGGACGAGGGCATGGCTTGGGCTTGGCAGTGCC
A CCAACCGGTAAGAGTCGACGAAAAGCGGCTACA
A CGCGCCGAGGCGCCTCAGCAGGAGC
A CGCGCCGAGGTGCCTCAGCAGGAGC
A CGTCGCTCCTGCTGAGGCGGTAGCCGCTTTTCGTCGACTCTTACCGGTTGGCT
A CGTCGCTCCTGCTGAGGCAGTAGCCGCTTTTCGTCGACTCTTACCGGTTGGCT
A CACGTCAGCCTGCTGGGTCCGCC
A CGCGCCGAGGTGTCCCCAGACTGGG
A CGCGCCGAGGGGTCCCCAGACTGGG
A GAGTCCCAGTCTGGGGACAGCGGACCCAGCAGGCTGACGTGCC
A GAGTCCCAGTCTGGGGACCGCGGACCCAGCAGGCTGACGTGCC
A CACTGCCCCCCGCGCCCTCA
A CGCGCCGAGGCTCACGCCCATCCG
A CGCGCCGAGGTTCACGCCATCCGG
A GCTGCCGGATGGGCGTGAGGAGGGCGCGGGGGGCAGTGCT
A GCTGCCGGATGGGCGTGAAGAGGGCGCGGGGGGCAGTGCT
S GCCCCAGTCTTCTCTTCAAATCACTGGTGTTTTAT
S CGCGCCGAGGCATTTGGCAAAGAATAGGAAGTTAC
S CGCGCCGAGGAATTTGGCAAAGAATAGGAAGTTAC
S AAAAGTAACTTCCTATTCTTTGCCAAATGTAAAACACCAGTGATTTGAAGAGAAGACTGGGGCCT
S AAAAGTAACTTCCTATTCTTTGCCAAATTTAAAACACCAGTGATTTGAAGAGAAGACTGGGGCCT
A CTTATCCTGTGCCCAGCTCATCATCTGACTAAGGATTAAGATCAT
A CGCGCCGAGGGAACTAGATCTTTTCACTAGTGCC
A CGCGCCGAGGAAACTAGATCTTTTCACTAGTGCC
A ACAGGGCACTAGTGAAAAGATCTAGTTCTGATCTTAATCCTTAGTCAGATGATGAGCTGGGCACAGGATAAGGT
A ACAGGGCACTAGTGAAAAGATCTAGTTTTGATCTTAATCCTTAGTCAGATGATGAGCTGGGCACAGGATAAGGT
S CAGTTTCACCTCTTTTAGCAGTTCTGATTGGTGGAAGTTGCA
S CGCGCCGAGGCGGGAACCATGTGTTCAC
S CGCGCCGAGGTGGGAACCATGTGTTCAC
S CCTTGTGAACACATGGTTCCCGGCAACTTCCACCAATCAGAACTGCTAAAAGAGGTGAAACTGCT
S CCTTGTGAACACATGGTTCCCAGCAACTTCCACCAATCAGAACTGCTAAAAGAGGTGAAACTGCT
S GTTTTCGGGACGGCATCCTCTTCAAGCTGAACTA
S CGCGCCGAGGCCCTGCTGTTGAACTTGAC
S CGCGCCGAGGTCCTGCTGTTGAACTTGAC
S CTCGGTCAAGTTCAACAGCAGGGAGTTCAGCTTGAAGAGGATGCCGTCCCGAAAACAG
S CTCGGTCAAGTTCAACAGCAGGAAGTTCAGCTTGAAGAGGATGCCGTCCCGAAAACAG
A GTAGGGCCCTCATGCGGACCAGGTT
A CGCGCCGAGGGAGGGCCTCACCAGG
A CGCGCCGAGGAAGGGCCTCACCAGG
A CCCACCTGGTGAGGCCCTCACCTGGTCCGCATGAGGGCCCTACCC
A CCCACCTGGTGAGGCCCTTACCTGGTCCGCATGAGGGCCCTACCC
S TCCTCTTTCCATTAATTTCTCTTCCAAGGCAGACGACTTCGATCT
S CGCGCCGAGGATAAACTACCAAGATACCTGGAG
S CGCGCCGAGGCTAAACTACCAAGATACCTGGAG


78867 T T S ATCGCTCCAGGTATCTTGGTAGTTTATGATCGAAGTCGTCTGCCTTGGAAGAGAAATTAATGGAAAGAGGAGA
78867 T G S ATCGCTCCAGGTATCTTGGTAGTTTAGGATCGAAGTCGTCTGCCTTGGAAGAGAAATTAATGGAAAGAGGAGA
78867 IS [TG]
78870 I A GGCTAATCACAGGCAGTGTGCAGCCTGCA
78870 P C A CGCGCCGAGGCACTGTTTCATGCTGGCA
78870 P T A CGCGCCGAGGTACTGTTTCATGCTGGCAAA
78870 T C A AATGTTTGCCAGCATGAAACAGTGGCAGGCTGCACACTGCCTGTGATTAGCCTT
78870 T T A AATGTTTGCCAGCATGAAACAGTAGCAGGCTGCACACTGCCTGTGATTAGCCTT
78870 IS [CT]
78871 I S CCAGGGCCACAGTTTTCTCTCCTATCAAATGGAACATGTTAGA
78871 P G S CGCGCCGAGGCACTGCTCTATGGTGCC
78871 P A S CGCGCCGAGGTACTGCTCTATGGTGCCA
78871 T G S TCATTGGCACCATAGAGCAGTGCTAACATGTTCCATTTGATAGGAGAGAAAACTGTGGCCCTGGGA
78871 T A S TCATTGGCACCATAGAGCAGTACTAACATGTTCCATTTGATAGGAGAGAAAACTGTGGCCCTGGGA
78871 IS [GA]
78873 I S TGCACATGATTTCACGATTAAACCAATTGTACTTTTAAAGAAGGTAATAAT
78873 P T S CGCGCCGAGGAGAGACTGAGACCTTCCAAG
78873 P C S CGCGCCGAGGGGAGACTGAGACCTTCCAA
78873 T T S CTCACTTGGAAGGTCTCAGTCTCTTTATTACCTTCTTTAAAAGTACAATTGGTTTAATCGTGAAATCATGTGCA
78873 T C S CTCACTTGGAAGGTCTCAGTCTCCTTATTACCTTCTTTAAAAGTACAATTGGTTTAATCGTGAAATCATGTGCA
78873 IS [TC]
78878 I S GCTGGAGGCTCAAGGGCCTCCTGGT
78878 P C S CGCGCCGAGGGTCCGGGTGTATAATTAAAATCTTCT
78878 P T S CGCGCCGAGGATCCGGGTGTATAATTAAAATCTTCT
78878 T C S GAACAGAAGATTTTAATTATACACCCGGACCCAGGAGGCCCTTGAGCCTCCAGCAG
78878 T T S GAACAGAAGATTTTAATTATACACCCGGATCCAGGAGGCCCTTGAGCCTCCAGCAG
78878 IS [CT]
78879 I S AGATTAGTCTTGGGAAATCATAAAAGGCCTTTTGTCAGAAGAATAAAGTAA
78879 P G S CGCGCCGAGGCTTAGACCCATGAAAATTTCCTCT
78879 P A S CGCGCCGAGGTTTAGACCCATGAAAATTTCCTCT
78879 T G S TGAGAGAGGAAATTTTCATGGGTCTAAGTACTTTATTCTTCTGACAAAAGGCCTTTTATGATTTCCCAAGACTAATCT
78879 T A S TGAGAGAGGAAATTTTCATGGGTCTAAATACTTTATTCTTCTGACAAAAGGCCTTTTATGATTTCCCAAGACTAATCT
78879 IS [GA]
78880 I A TAAAGAAGCAAAGGTTTATTTGGGTCATGCTTCTGATGTCTGTAAAGTTCT
78880 P A A CGCGCCGAGGAACAGTGGGCATCTGC
78880 P C A CGCGCCGAGGCACAGTGGGCATCTGC
78880 T A A GGATGCAGATGCCCACTGTTGAACTTTACAGACATCAGAAGCATGACCCAAATAAACCTTTGCTTCTTTA
78880 T C A GGATGCAGATGCCCACTGTGGAACTTTACAGACATCAGAAGCATGACCCAAATAAACCTTTGCTTCTTTA
78880 IS [AC]
78883 I S CTGCTCCCAACTTCGCCAGCCTCCAT
78883 P T S CGCGCCGAGGATGTACAACTTCCGCGTG
78883 P C S CGCGCCGAGGGTGTACAACTTCCGCGTG
78883 T T S ACTACACGCGGAAGTTGTACATTGGAGGCTGGCGAAGTTGGGAGCAGAG
78883 T C S ACTACACGCGGAAGTTGTACACTGGAGGCTGGCGAAGTTGGGAGCAGAG
78883 IS [TC]
78890 I A GCCCCACTGCCTGGCATGTGCACT
78890 P INS A CGCGCCGAGGACGGAGCCAGAGGGY
78890 P DEL A CGCGCCGAGGATTTGGCTGAAGGGCATCY
78890 T INS A TGTGGGACCCCCCGGCCCTCTGGCTCCGTGTGCACATGCCAGGCAGTGGGGCCG
78890 T DEL A CCTCGATGCCCTTCAGCCAAATGTGCACATGCCAGGCAGTGGGGCCG
78890 IS [-CGGAGCCAGAGGGCCGGGGGGTCCCACA]
78917 I A TCGCACAGGGGACCCAGGGCCC
78917 P A A CGCGCCGAGGAGGCCCCTCCATCC
78917 P T A CGCGCCGAGGTGGCCCCTCCATCC
78917 T A A TTCTGGATGGAGGGGCCTGGCCCTGGGTCCCCTGTGCGATT
78917 T T A TTCTGGATGGAGGGGCCAGGCCCTGGGTCCCCTGTGCGATT
78917 IS [AT]
78929 I S ACGGAGCTGTTACCTGTGTTTGGAACACCT
78929 P C S CGCGCCGAGGGTGCAGGTCACTGCAAC
78929 P T S CGCGCCGAGGATGCAGGTCACTGCAAC
78929 T C S AGAGGTTGCAGTGACCTGCACGGTGTTCCAAACACAGGTAACAGCTCCGTGA
78929 T T S AGAGGTTGCAGTGACCTGCATGGTGTTCCAAACACAGGTAACAGCTCCGTGA
78929 IS [CT]
78931 I A GAGGAAGTGGGAGCCCCCGAGGCA
78931 P C A CGCGCCGAGGCTCCCTCGCTCTCCC
78931 P T A CGCGCCGAGGTTCCCTCGCTCTCCC
78931 T C A CAGCGGGAGAGCGAGGGAGGCCTCGGGGGCTCCCACTTCCTCCA
78931 T T A CAGCGGGAGAGCGAGGGAAGCCTCGGGGGCTCCCACTTCCTCCA
78931 IS [CT]
78933 I A CAAGAGGCTTGACATCATTGGCTGACACTTTCGAACACT
78933 P G A CGCGCCGAGGGTGATAGAAGAGCTGTTGGATG
78933 P A A CGCGCCGAGGATGATAGAAGAGCTGTTGGATG
78933 T G A TCCTCATCCAACAGCTCTTCTATCACGTGTTCGAAAGTGTCAGCCAATGATGTCAAGCCTCTTGAA
78933 T A A TCCTCATCCAACAGCTCTTCTATCATGTGTTCGAAAGTGTCAGCCAATGATGTCAAGCCTCTTGAA

FIGURE 129D

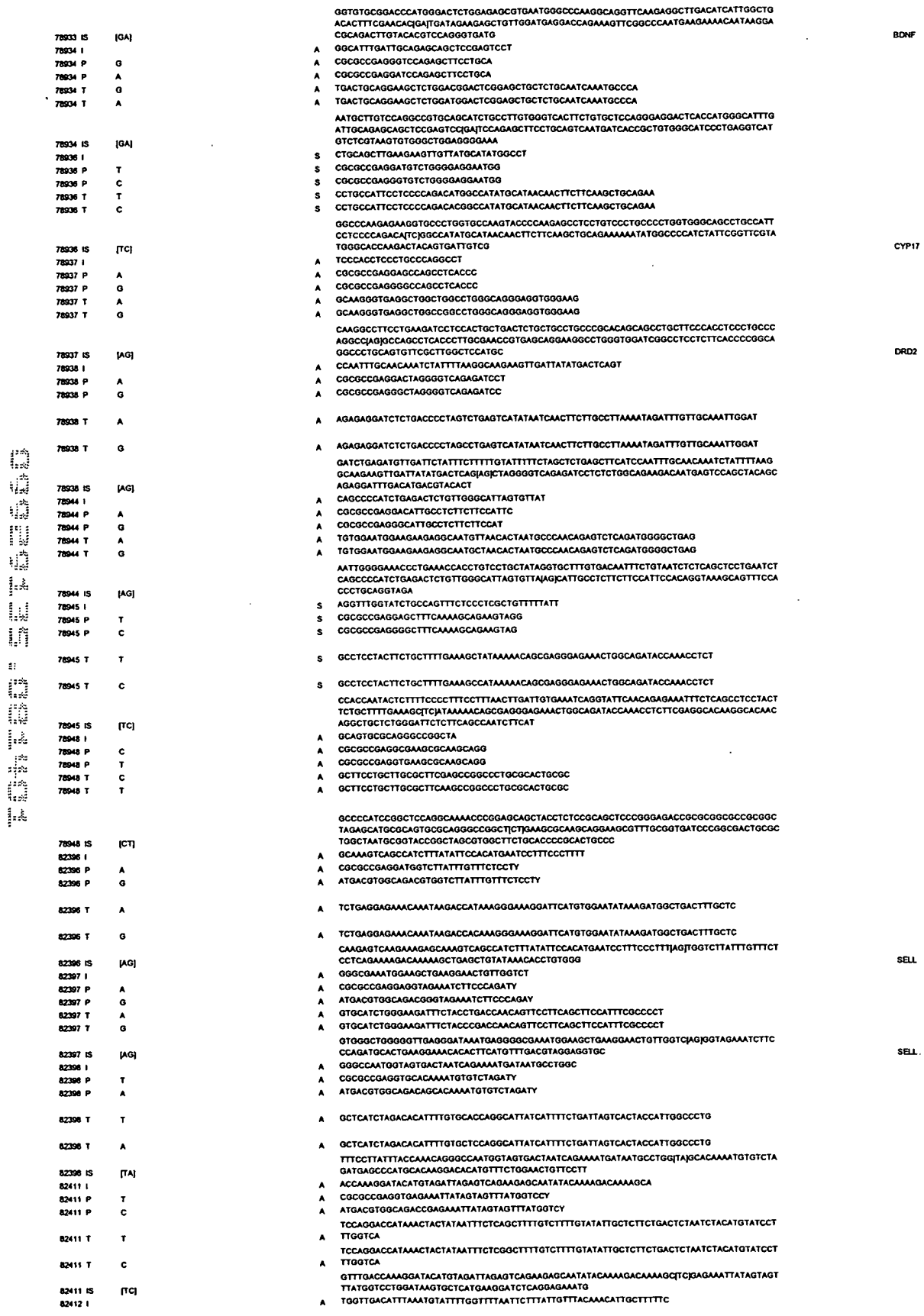


FIGURE 129D

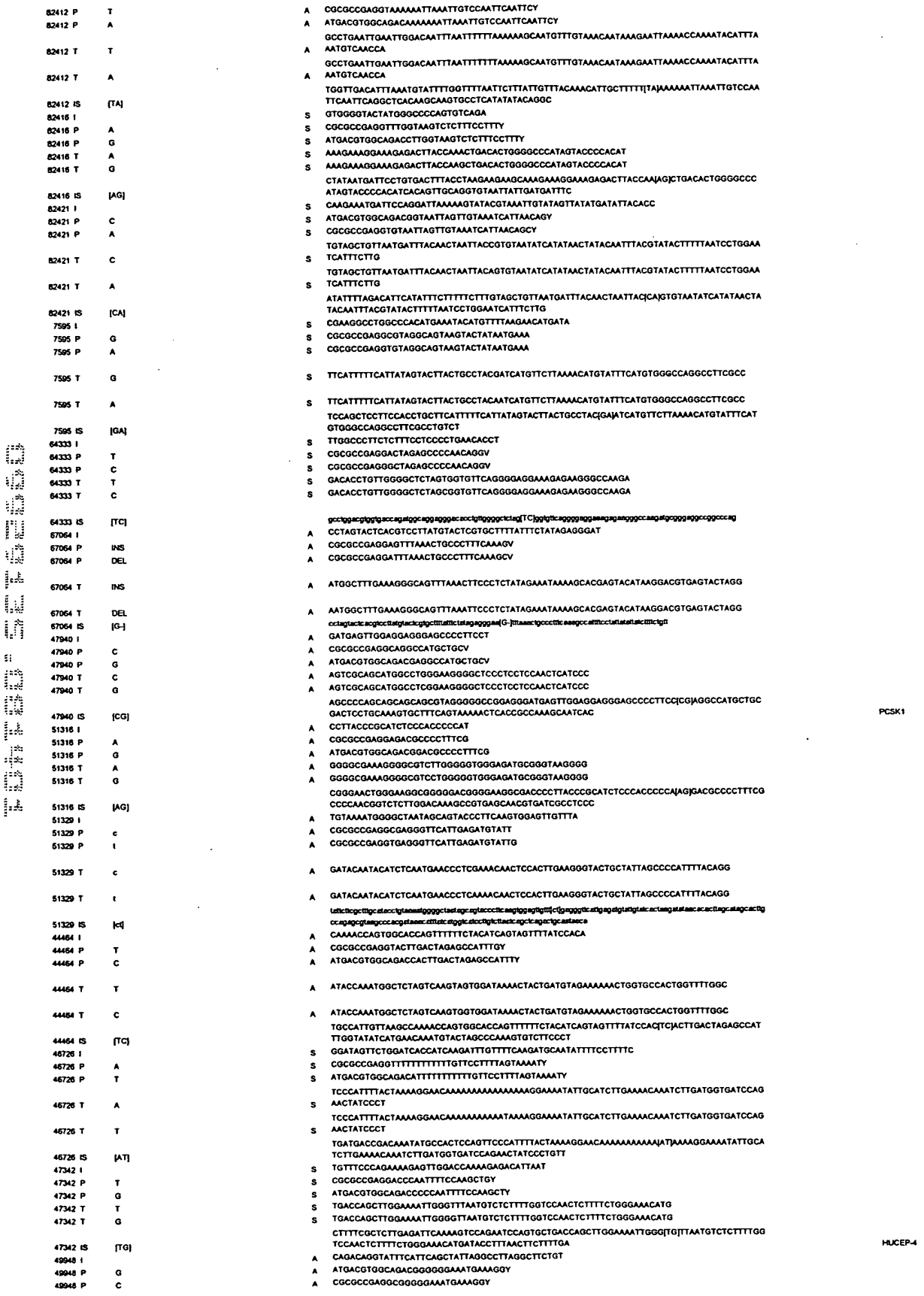

82412 P T A CGCGCCGAGGTAAAAAATTAAATTGTCCAATTCAATTCY
82412 P A A ATGACGTGGCAGACAAAAAAATTAAATTGTCCAATTCAATTCY
GCCTGAATTGAATTGGACAATTTAATTTTTTAAAAAAGCAATGTTTGTAAACAATAAAGAATTAAAACCAAAATACATTTA
82412 T T A AATGTCAACCA
GCCTGAATTGAATTGGACAATTTAATTTTTTTAAAAAGCAATGTTTGTAAACAATAAAGAATTAAAACCAAAATACATTTA
82412 T A A AATGTCAACCA
TGGTTGACATTTAAATGTATTTTGGTTTTAATTCTTTATTGTTTACAAACATTGCTTTTT[TA]AAAAAATTAAATTGTCCAA
82412 IS [TA] TTCAATTCAGGCTCACAAGCAAGTGCCTCATATATACAGGC
82416 I S GTGGGGTACTATGGGCCCCAGTGTCAGA
82416 P A S CGCGCCGAGGTTTGGTAAGTCTCTTTCCTTTY
82416 P G S ATGACGTGGCAGACCTTGGTAAGTCTCTTTCCTTTY
82416 T A S AAAGAAAGGAAAGAGACTTACCAAACTGACACTGGGGCCCATAGTACCCCACAT
82416 T G S AAAGAAAGGAAAGAGACTTACCAAGCTGACACTGGGGCCCATAGTACCCCACAT
CTATAATGATTCCTGTGACTTTACCTAAGAAGAAGCAAAGAAAGGAAAGAGACTTACCAA[AG]CTGACACTGGGGCCC
82416 IS [AG] ATAGTACCCCACATCACAGTTGCAGGTGTAATTATTGATGATTTC
82421 I S CAAGAAATGATTCCAGGATTAAAAAGTATACGTAAATTGTATAGTTATATGATATTACACC
82421 P C S ATGACGTGGCAGACGGTAATTAGTTGTAAATCATTAACAGY
82421 P A S CGCGCCGAGGTGTAATTAGTTGTAAATCATTAACAGCY
TGTAGCTGTTAATGATTTACAACTAATTACCGTGTAATATCATATAACTATACAATTTACGTATACTTTTTAATCCTGGAA
82421 T C S TCATTTCTTG
TGTAGCTGTTAATGATTTACAACTAATTACAGTGTAATATCATATAACTATACAATTTACGTATACTTTTTAATCCTGGAA
82421 T A S TCATTTCTTG
ATATTTTAGACATTCATATTTCTTTTTCTTTGTAGCTGTTAATGATTTACAACTAATTAC[CA]GTGTAATATCATATAACTA
82421 IS [CA] TACAATTTACGTATACTTTTTAATCCTGGAATCATTTCTTG
7595 I S CGAAGGCCTGGCCCACATGAAATACATGTTTTAAGAACATGATA
7595 P G S CGCGCCGAGGCGTAGGCAGTAAGTACTATAATGAAA
7595 P A S CGCGCCGAGGTGTAGGCAGTAAGTACTATAATGAAA
7595 T G S TTCATTTTTCATTATAGTACTTACTGCCTACGATCATGTTCTTAAAACATGTATTTCATGTGGGCCAGGCCTTCGCC
7595 T A S TTCATTTTTCATTATAGTACTTACTGCCTACAATCATGTTCTTAAAACATGTATTTCATGTGGGCCAGGCCTTCGCC
TCCAGCTCCTTCCACCTGCTTCATTTTTCATTATAGTACTTACTGCCTAC[GA]ATCATGTTCTTAAAACATGTATTTCAT
7595 IS [GA] GTGGGCCAGGCCTTCGCCTGTCT
64333 I S TTGGCCCTTCTCTTTCCTCCCCTGAACACCT
64333 P T S CGCGCCGAGGACTAGAGCCCCAACAGGV
64333 P C S CGCGCCGAGGGCTAGAGCCCCAACAGGV
64333 T T S GACACCTGTTGGGGCTCTAGTGGTGTTCAGGGGAGGAAAGAGAAGGGCCAAGA
64333 T C S GACACCTGTTGGGGCTCTAGCGGTGTTCAGGGGAGGAAAGAGAAGGGCCAAGA
gcctggacgtggtgaccagatggccaggagggaccactgtggggctctag[TC]ggtgttcagggaggaaagagaggccaagatgcgggaggccggcccag
64333 IS [TC]
67064 I A CCTAGTACTCACGTCCTTATGTACTCGTGCTTTTATTTCTATAGAGGGAT
67064 P INS A CGCGCCGAGGAGTTTAAACTGCCCTTTCAAAGV
67064 P DEL A CGCGCCGAGGATTTAAACTGCCCTTTCAAAGCV
67064 T INS A ATGGCTTTGAAAGGGCAGTTTAAACTTCCCTCTATAGAAATAAAAGCACGAGTACATAAGGACGTGAGTACTAGG
67064 T DEL A AATGGCTTTGAAAGGGCAGTTTAAATTCCCTCTATAGAAATAAAAGCACGAGTACATAAGGACGTGAGTACTAGG
67064 IS [G-]
47940 I A GATGAGTTGGAGGAGGGAGCCCCTTCCT
47940 P C A CGCGCCGAGGCAGGCCATGCTGCV
47940 P G A ATGACGTGGCAGACGAGGCCATGCTGCV
47940 T C A AGTCGCAGCATGGCCTGGGAAGGGGCTCCCTCCTCCAACTCATCCC
47940 T G A AGTCGCAGCATGGCCTCGGAAGGGGCTCCCTCCTCCAACTCATCCC
AGCCCCAGCAGCAGCAGCGTAGGGGGCCGGAGGGATGAGTTGGAGGAGGGAGCCCCTTCC[CG]AGGCCATGCTGC
47940 IS [CG] GACTCCTGCAAAGTGCTTTCAGTAAAAACTCACCGCCAAAGCAATCAC PCSK1
51316 I A CCTTACCCGCATCTCCCACCCCCAT
51316 P A A CGCGCCGAGGAGACGCCCCTTTCG
51316 P G A ATGACGTGGCAGACGGACGCCCCTTTCG
51316 T A A GGGGCGAAAGGGGCGTCTTGGGGGTGGGAGATGCGGGTAAGGGG
51316 T G A GGGGCGAAAGGGGCGTCCTGGGGGTGGGAGATGCGGGTAAGGGG
CGGGAACTGGGAAGGCGGGGGACGGGGAAGGCGACCCCTTACCCGCATCTCCCACCCCCA[AG]GACGCCCCTTTCG
51316 IS [AG] CCCCAACGGTCTCTTGGACAAAGCCGTGAGCAACGTGATCGCCTCCC
51329 I A TGTAAAATGGGGCTAATAGCAGTACCCTTCAAGTGGAGTTGTTTA
51329 P c A CGCGCCGAGGCGAGGGTTCATTGAGATGTATT
51329 P t A CGCGCCGAGGTGAGGGTTCATTGAGATGTATTG
51329 T c A GATACAATACATCTCAATGAACCCTCGAAACAACTCCACTTGAAGGGTACTGCTATTAGCCCCATTTTACAGG
51329 T t A GATACAATACATCTCAATGAACCCTCAAAACAACTCCACTTGAAGGGTACTGCTATTAGCCCCATTTTACAGG
51329 IS [ct]
44464 I A CAAAACCAGTGGCACCAGTTTTTTCTACATCAGTAGTTTTATCCACA
44464 P T A CGCGCCGAGGTACTTGACTAGAGCCATTTGY
44464 P C A ATGACGTGGCAGACCACTTGACTAGAGCCATTTY
44464 T T A ATACCAAATGGCTCTAGTCAAGTAGTGGATAAAACTACTGATGTAGAAAAAACTGGTGCCACTGGTTTTGGC
44464 T C A ATACCAAATGGCTCTAGTCAAGTGGTGGATAAAACTACTGATGTAGAAAAAACTGGTGCCACTGGTTTTGGC
TGCCATTGTTAAGCCAAAACCAGTGGCACCAGTTTTTTCTACATCAGTAGTTTTATCCAC[TC]ACTTGACTAGAGCCAT
44464 IS [TC] TTGGTATATCATGAACAAATGTACTAGCCCAAAGTGTCTTCCCT
46726 I S GGATAGTTCTGGATCACCATCAAGATTTGTTTTCAAGATGCAATATTTTCCTTTTC
46726 P A S CGCGCCGAGGTTTTTTTTTTTTTGTTCCTTTTAGTAAAATY
46726 P T S ATGACGTGGCAGACATTTTTTTTTTTGTTCCTTTTAGTAAAATY
TCCCATTTTACTAAAAGGAACAAAAAAAAAAAAAAAAAAGGAAAATATTGCATCTTGAAAACAAATCTTGATGGTGATCCAG
46726 T A S AACTATCCCT
TCCCATTTTACTAAAAGGAACAAAAAAAAAAAATAAAAGGAAAATATTGCATCTTGAAAACAAATCTTGATGGTGATCCAG
46726 T T S AACTATCCCT
TGATGACCGACAAATATGCCACTCCAGTTCCCATTTTACTAAAAGGAACAAAAAAAAAAA[AT]AAAAGGAAAATATTGCA
46726 IS [AT] TCTTGAAAACAAATCTTGATGGTGATCCAGAACTATCCCTGTT
47342 I S TGTTTCCCAGAAAAGAGTTGGACCAAAAGAGACATTAAT
47342 P T S CGCGCCGAGGACCCAATTTTCCAAGCTGY
47342 P G S ATGACGTGGCAGACCCCCAATTTTCCAAGCTY
47342 T T S TGACCAGCTTGGAAAATTGGGTTTAATGTCTCTTTTGGTCCAACTCTTTTCTGGGAAACATG
47342 T G S TGACCAGCTTGGAAAATTGGGGTTAATGTCTCTTTTGGTCCAACTCTTTTCTGGGAAACATG
CTTTTCGCTCTTGAGATTCAAAAGTCCAGAATCCAGTGCTGACCAGCTTGGAAAATTGGG[TG]TTAATGTCTCTTTTGG
47342 IS [TG] TCCAACTCTTTTCTGGGAAACATGATACCTTTAACTTCTTTTGA HUCEP-4
49948 I A CAGACAGGTATTTCATTCAGCTATTAGGCCTTAGGCTTCTGT
49948 P G A ATGACGTGGCAGACGGGGGGAAATGAAAGGY
49948 P C A CGCGCCGAGGCGGGGGAAATGAAAGGY

FIGURE 129D

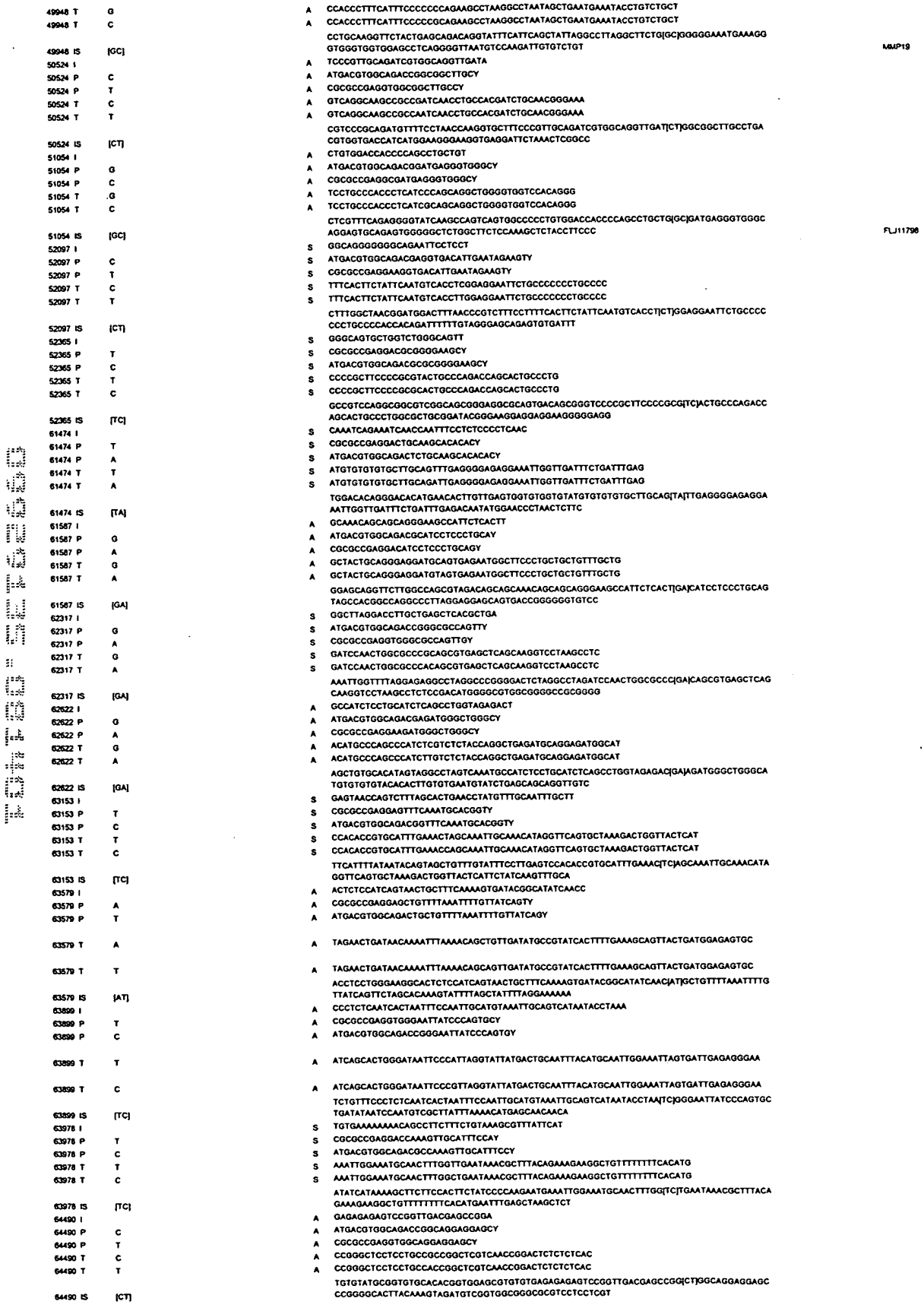

49948 T G A CCACCCTTTCATTTCCCCCCCAGAAGCCTAAGGCCTAATAGCTGAATGAAATACCTGTCTGCT
49948 T C A CCACCCTTTCATTTCCCCCGCAGAAGCCTAAGGCCTAATAGCTGAATGAAATACCTGTCTGCT
CCTGCAAGGTTCTACTGAGCAGACAGGTATTTCATTCAGCTATTAGGCCTTAGGCTTCTG[GC]GGGGGAAATGAAAGG
49948 IS [GC] GTGGGTGGTGGAGCCTCAGGGGTTAATGTCCAAGATTGTGTCTGT MMP19
50524 I A TCCCGTTGCAGATCGTGGCAGGTTGATA
50524 P C A ATGACGTGGCAGACCGGCGGCTTGCY
50524 P T A CGCGCCGAGGTGGCGGCTTGCCY
50524 T C A GTCAGGCAAGCCGCCGATCAACCTGCCACGATCTGCAACGGGAAA
50524 T T A GTCAGGCAAGCCGCCAATCAACCTGCCACGATCTGCAACGGGAAA
CGTCCCGCAGATGTTTTCCTAACCAAGGTGCTTTCCCGTTGCAGATCGTGGCAGGTTGAT[CT]GGCGGCTTGCCTGA
50524 IS [CT] CGTGGTGACCATCATGGAAGGGAAGGTGAGGATTCTAAACTCGGCC
51054 I A CTGTGGACCACCCCAGCCTGCTGT
51054 P G A ATGACGTGGCAGACGGATGAGGGTGGGCY
51054 P C A CGCGCCGAGGCGATGAGGGTGGGCY
51054 T G A TCCTGCCCACCCTCATCCCAGCAGGCTGGGGTGGTCCACAGGG
51054 T C A TCCTGCCCACCCTCATCGCAGCAGGCTGGGGTGGTCCACAGGG
CTCGTTTCAGAGGGGTATCAAGCCAGTCAGTGGCCCCCTGTGGACCACCCCAGCCTGCTG[GC]GATGAGGGTGGGC
51054 IS [GC] AGGAGTGCAGAGTGGGGGCTCTGGCTTCTCCAAAGCTCTACCTTCCC FLJ11798
52097 I S GGCAGGGGGGGCAGAATTCCTCCT
52097 P C S ATGACGTGGCAGACGAGGTGACATTGAATAGAAGTY
52097 P T S CGCGCCGAGGAAGGTGACATTGAATAGAAGTY
52097 T C S TTTCACTTCTATTCAATGTCACCTCGGAGGAATTCTGCCCCCCCTGCCCC
52097 T T S TTTCACTTCTATTCAATGTCACCTTGGAGGAATTCTGCCCCCCCTGCCCC
CTTTGGCTAACGGATGGACTTTAACCCGTCTTTCCTTTTCACTTCTATTCAATGTCACC[TC]TGGAGGAATTCTGCCCC
52097 IS [CT] CCCTGCCCCACCACAGATTTTTTGTAGGGAGCAGAGTGTGATTT
52365 I S GGGCAGTGCTGGTCTGGGCAGTT
52365 P T S CGCGCCGAGGACGCGGGGAAGCY
52365 P C S ATGACGTGGCAGACGCGCGGGGAAGCY
52365 T T S CCCCGCTCCCCGCGTACTGCCCAGACCAGCACTGCCCTG
52365 T C S CCCCGCTTCCCCGCGCACTGCCCAGACCAGCACTGCCCTG
GCCGTCCAGGCGGCGTCGGCAGCGGGAGGCGCAGTGACAGCGGGTCCCCGCTTCCCCGCG[TC]ACTGCCCAGACC
52365 IS [TC] AGCACTGCCCTGGCGCTGCGGATACGGGAAGGAGGAGGAAGGGGGAGG
61474 I S CAAATCAGAAATCAACCAATTTCCTCTCCCCTCAAC
61474 P T S CGCGCCGAGGACTGCAAGCACACACY
61474 P A S ATGACGTGGCAGACTCTGCAAGCACACACY
61474 T T S ATGTGTGTGTGCTTGCAGTTTGAGGGGAGAGGAAATTGGTTGATTTCTGATTTGAG
61474 T A S ATGTGTGTGTGCTTGCAGATTGAGGGGAGAGGAAATTGGTTGATTTCTGATTTGAG
TGGACACAGGGACACATGAACACTTGTTGAGTGGTGTGGTGTATGTGTGTGCTTGCAG[TA]TTGAGGGGAGAGGA
61474 IS [TA] AATTGGTTGATTTCTGATTTGAGACAATATGGAACCCTAACTCTTC
61587 I A GCAAACAGCAGCAGGGAAGCCATTCTCACTT
61587 P G A ATGACGTGGCAGACGCATCCTCCCTGCAY
61587 P A A CGCGCCGAGGACATCCTCCCTGCAGY
61587 T G A GCTACTGCAGGGAGGATGCAGTGAGAATGGCTTCCCTGCTGCTGTTTGCTG
61587 T A A GCTACTGCAGGGAGGATGTAGTGAGAATGGCTTCCCTGCTGCTGTTTGCTG
GGAGCAGGTTCTTGGCCAGCGTAGACAGCAGCAAACAGCAGCAGGGAAGCCATTCTCAC[TG]ATCCTCCCTGCAG
61587 IS [GA] TAGCCACGGCCAGGCCCTTAGGAGGAGCAGTGACCGGGGGGTGTCC
62317 I S GGCTTAGGACCTTGCTGAGCTCACGCTGA
62317 P G S ATGACGTGGCAGACCGGGCGCCAGTTY
62317 P A S CGCGCCGAGGTGGGCGCCAGTTGY
62317 T G S GATCCAACTGGCGCCCGCAGCGTGAGCTCAGCAAGGTCCTAAGCCTC
62317 T A S GATCCAACTGGCGCCCACAGCGTGAGCTCAGCAAGGTCCTAAGCCTC
AAATTGGTTTTAGGAGAGGCCTAGGCCCGGGGACTCTAGGCCTAGATCCAACTGGCGCCC[GA]CAGCGTGAGCTCAG
62317 IS [GA] CAAGGTCCTAAGCCTCTCCGACATGGGGCGTGGCGGGGCCGCGGGG
62622 I A GCCATCTCCTGCATCTCAGCCTGGTAGAGACT
62622 P G A ATGACGTGGCAGACGAGATGGGCTGGGCY
62622 P A A CGCGCCGAGGAAGATGGGCTGGGCY
62622 T G A ACATGCCCAGCCCATCTCGTCTCTACCAGGCTGAGATGCAGGAGATGGCAT
62622 T A A ACATGCCCAGCCCATCTTGTCTCTACCAGGCTGAGATGCAGGAGATGGCAT
AGCTGTGCACATAGTAGGCCTAGTCAAATGCCATCTCCTGCATCTCAGCCTGGTAGAGAC[GA]AGATGGGCTGGGCA
62622 IS [GA] TGTGTGTGTACACACTTGTGTGAATGTATCTGAGCAGCAGGTTGTC
63153 I S GAGTAACCAGTCTTTAGCACTGAACCTATGTTTGCAATTTGCTT
63153 P T S CGCGCCGAGGAGTTTCAAATGCACGGTY
63153 P C S ATGACGTGGCAGACGGTTTCAAATGCACGGTY
63153 T T S CCACACCGTGCATTTGAAACTAGCAAATTGCAAACATAGGTTCAGTGCTAAAGACTGGTTACTCAT
63153 T C S CCACACCGTGCATTTGAAACCAGCAAATTGCAAACATAGGTTCAGTGCTAAAGACTGGTTACTCAT
TTCATTTTATAATACAGTAGCTGTTTGTATTTCCTTGAGTCCACACCGTGCATTTGAAAC[TC]AGCAAATTGCAAACATA
63153 IS [TC] GGTTCAGTGCTAAAGACTGGTTACTCATTCTATCAAGTTTGCA
63579 I A ACTCTCCATCAGTAACTGCTTTCAAAAGTGATACGGCATATCAACC
63579 P A A CGCGCCGAGGAGCTGTTTTAAATTTTGTTATCAGTY
63579 P T A ATGACGTGGCAGACTGCTGTTTTAAATTTTGTTATCAGY
63579 T A A TAGAACTGATAACAAAATTTAAAACAGCTGTTGATATGCCGTATCACTTTTGAAAGCAGTTACTGATGGAGAGTGC
63579 T T A TAGAACTGATAACAAAATTTAAAACAGCAGTTGATATGCCGTATCACTTTTGAAAGCAGTTACTGATGGAGAGTGC
ACCTCCTGGGAAGGCACTCTCCATCAGTAACTGCTTTCAAAAGTGATACGGCATATCAAC[AT]GCTGTTTTAAATTTTG
63579 IS [AT] TTATCAGTTCTAGCACAAAGTATTTTAGCTATTTTAGGAAAAAA
63899 I A CCCTCTCAATCACTAATTTCCAATTGCATGTAAATTGCAGTCATAATACCTAAA
63899 P T A CGCGCCGAGGTGGGAATTATCCCAGTGCY
63899 P C A ATGACGTGGCAGACCGGGAATTATCCCAGTGY
63899 T T A ATCAGCACTGGGATAATTCCCATTAGGTATTATGACTGCAATTTACATGCAATTGGAAATTAGTGATTGAGAGGGAA
63899 T C A ATCAGCACTGGGATAATTCCCGTTAGGTATTATGACTGCAATTTACATGCAATTGGAAATTAGTGATTGAGAGGGAA
TCTGTTTCCCTCTCAATCACTAATTTCCAATTGCATGTAAATTGCAGTCATAATACCTAA[TC]GGGAATTATCCCAGTGC
63899 IS [TC] TGATATAATCCAATGTCGCTTATTTAAAACATGAGCAACAACA
63978 I S TGTGAAAAAAAACAGCCTTCTTTCTGTAAAGCGTTTATTCAT
63978 P T S CGCGCCGAGGACCAAAGTTGCATTTCCAY
63978 P C S ATGACGTGGCAGACGCCAAAGTTGCATTTCCY
63978 T T S AAATTGGAAATGCAACTTTGGTTGAATAAACGCTTTACAGAAAGAAGGCTGTTTTTTTTCACATG
63978 T C S AAATTGGAAATGCAACTTTGGCTGAATAAACGCTTTACAGAAAGAAGGCTGTTTTTTTTCACATG
ATATCATAAAAGCTTCTTCCACTTCTATCCCCAAGAATGAAATTGGAAATGCAACTTTGG[TC]TGAATAAACGCTTTACA
63978 IS [TC] GAAAGAAGGCTGTTTTTTTTCACATGAATTTGAGCTAAGCTCT
64490 I A GAGAGAGAGTCCGGTTGACGAGCCGGA
64490 P C A ATGACGTGGCAGACCGGCAGGAGGAGCY
64490 P T A CGCGCCGAGGTGGCAGGAGGAGCY
64490 T C A CCGGGCTCCTCCTGCCGCCGGCTCGTCAACCGGACTCTCTCTCAC
64490 T T A CCGGGCTCCTCCTGCCACCGGCTCGTCAACCGGACTCTCTCTCAC
TGTGTATGCGGTGTGCACACGGTGGAGCGTGTGTGAGAGAGAGTCCGGTTGACGAGCCGG[CT]GGCAGGAGGAGC
64490 IS [CT] CCGGGGCACTTACAAAGTAGATGTCGGTGGCGGGCGCGTCCTCCTCGT

FIGURE 129D

64930 I		A	CTCCCAGAGAGGATGCTGAAGCAGATTGAATCACTTA
64930 P	T	A	CGCGCCGAGGTAGGAGAAAAGCACACTTAGY
64930 P	C	A	ATGACGTGGCAGACCAGGAGAAAAGCACACTTAY
64930 T	T	A	GTGCCTAAGTGTGCTTTTCTCCTAAAGTGATTCAATCTGCTTCAGCATCCTCTCTGGGAGTG
64930 T	C	A	GTGCCTAAGTGTGCTTTTCTCCTGAAGTGATTCAATCTGCTTCAGCATCCTCTCTGGGAGTG
64930 IS	[TC]		TCAGAGCAGCACACTGGCACCCCACTCCCAGAGAGGATGCTGAAGCAGATTGAATCACTT[TC]AGGAGAAAAGCACA CTTAGGCACGAAGCCCTGGCTTTTCTTCTTCTTTCTTCTGTGTCTA
75789 I		A	TCTCAAGATCAAATGAAGTATGCTGCAGCAGTGATTTAAAACTGACAATAAA
75789 P	C	A	ATGACGTGGCAGACCAGTACCCCTGAACAGCY
75789 P	T	A	CGCGCCGAGGTAGTACCCCTGAACAGCY
75789 T	C	A	CAGTGCTGTTCAGGGGTACTGTTATTGTCAGTTTTAAATCACTGCTGCAGCATACTTCATTTGATCTTGAGACT
75789 T	T	A	CAGTGCTGTTCAGGGGTACTATTATTGTCAGTTTTAAATCACTGCTGCAGCATACTTCATTTGATCTTGAGACT
75789 IS	[CT]		CATGGCAAGTCTCAAGATCAAATGAAGTATGCTGCAGCAGTGATTTAAAACTGACAATAA[CT]AGTACCCCTGAACAGC ACTGCTCATGAAAAATCAAAGCAATAAACAACCAAAAACAACAA
75992 I		A	GGCTTTAATTTCTAGGACACCAGAGTCCCATCTCATAAAAAAAGGTAT
75992 P	G	A	ATGACGTGGCAGACGCATGAACTACCCAGAGY
75992 P	A	A	CGCGCCGAGGACATGAACTACCCAGAGCY
75992 T	G	A	TACAGCTCTGGGTAGTTCATGCTACCTTTTTTTATGAGATGGGACTCTGGTGTCCTAGAAATTAAAGCCAA
75992 T	A	A	TACAGCTCTGGGTAGTTCATGTTACCTTTTTTTATGAGATGGGACTCTGGTGTCCTAGAAATTAAAGCCAA
75992 IS	[GA]		TACTTGGAATTTTGGCTTTAATTTCTAGGACACCAGAGTCCCATCTCATAAAAAAAGGTA[GA]CATGAACTACCCAGAG CTGTACCACTCATTCATTTATAAATGGTAAGGCAAGGTTAGCAG
76071 I		A	CGAAATCATAGTAGAAGGCTAGAACATATTCCTACTGGATATTAGATTAAAAATAAGA
76071 P	C	A	ATGACGTGGCAGACCTCGTCTTTAAGGCTCTAGY
76071 P	T	A	CGCGCCGAGGTTCGTCTTTAAGGCTCTAGY
76071 T	C	A	GTTGCTAGAGCCTTAAAGACGAGCTTATTTTTAATCTAATATCCAGTAGGAATATGTTCTAGCCTTCTACTATGATTTCG TG
76071 T	T	A	GTTGCTAGAGCCTTAAAGACGAACTTATTTTTAATCTAATATCCAGTAGGAATATGTTCTAGCCTTCTACTATGATTTCG TG
76071 IS	[CT]		TCACGAAATCATAGTAGAAGGCTAGAACATATTCCTACTGGATATTAGATTAAAAATAAG[CT]TCGTCTTTAAGGCTCTA GCAACAGGGACTGTCTATTCTGTCAGTCAGTGATGATTGGCAG
76106 I		S	GCTGATCCCTCCATTCGAAGCTGGTCCTGAAT
76106 P	T	S	CGCGCCGAGGAGTTCCTGGCAAAGACAY
76106 P	C	S	ATGACGTGGCAGACGGTTCCTGGCAAAGACY
76106 T	T	S	CATTTGTCTTTGCCAGGAACTTTCAGGACCAGCTTCGAATGGAGGGATCAGCCA
76106 T	C	S	CATTTGTCTTTGCCAGGAACCTTCAGGACCAGCTTCGAATGGAGGGATCAGCCA
76106 IS	[TC]		AATGGCACCAATTTCTCCTAAGACGTATTCATGTCTATCACATTTGTCTTTGCCAGGAAC[TC]TTCAGGACCAGCTTCG AATGGAGGGATCAGCCAGACAAACACCTATGACGCCCAGTATGA
76146 I		S	TGCTGATGGGGCGGGGTGGCT
76146 P	C	S	ATGACGTGGCAGACGTCAGGACGGCAGGY
76146 P	T	S	CGCGCCGAGGATCAGGACGGCAGGY
76146 T	C	S	GGCTCCTGCCGTCCTGACGCCACCCCGCCCCATCAGCACT
76146 T	T	S	GGCTCCTGCCGTCCTGATGCCACCCCGCCCCATCAGCACT
76146 IS	[CT]		TGGGGGGAGGAGACCCATGGACTTCACCCATACTCAGTGAGGGGGCTCCTGCCGTCCTGA[CT]GCCACCCCGCCCC ATCAGCACTTAAGCCACATGACACAAAGTCTGTACCGCACGGGAAAT
76178 I		S	GCACTCATCTTCCACACTTGAGCCCTGGTTT
76178 P	T	S	CGCGCCGAGGATCTCCACCCAGAGTCY
76178 P	C	S	ATGACGTGGCAGACGTCTCCACCCAGAGTCY
76178 T	T	S	AGGAGACTCTGGGTGGAGATAACCAGGGCTCAAGTGTGGAAGATGAGTGCAC
76178 T	C	S	AGGAGACTCTGGGTGGAGACAACCAGGGCTCAAGTGTGGAAGATGAGTGCAC
76178 IS	[TC]		GCCAAGTCAGTAGCCTCACAGAGATCTCTGGCTTTCTGCCAAGGAGACTCTGGGTGGAGA[TC]AACCAGGGCTCAAG TGTGGAAGATGAGTGCACAGTCACCAAACCAGGGGCACCTCTGCTT
76382 I		S	TCTGAACTGTAACAACTCTCAGAGGAGCATTGCCCT
76382 P	C	S	ATGACGTGGCAGACGTCAGACAGCAACTCAGY
76382 P	T	S	CGCGCCGAGGATCAGACAGCAACTCAGAY
76382 T	C	S	ATTCTCTGAGTTGCTGTCTGACGGGCAATGCTCCTCTGAGAGTTGTTACAGTTCAGACA
76382 T	T	S	ATTCTCTGAGTTGCTGTCTGATGGGCAATGCTCCTCTGAGAGTTGTTACAGTTCAGACA
76382 IS	[CT]		GGCATGGAAATCATTGAAATACCTGGTTGTTCTCTGGTTATTCTCTGAGTTGCTGTCTGA[CT]GGGCAATGCTCCTCT GAGAGTTGTTACAGTTCAGACATGGTAATGACTGGTTTTATACAG
76384 I		A	CCAGTGACTTTCTAGACTTTGAACATTAGAATCCACTCCCTGAAAT
76384 P	A	A	CGCGCCGAGGAAGTCACTCTCCTTTGTAACY
76384 P	G	A	ATGACGTGGCAGACGAGTCACTCTCCTTTGTAACY
76384 T	A	A	TCTAGTTACAAAGGAGAGTGACTTTTTCAGGGAGTGGATTCTAATGTTCAAAGTCTAGAAAGTCACTGGGG
76384 T	G	A	TCTAGTTACAAAGGAGAGTGACTCTTTCAGGGAGTGGATTCTAATGTTCAAAGTCTAGAAAGTCACTGGGG
76384 IS	[AG]		TGTTCTCTTTTCACCCCAGTGACTTTCTAGACTTTGAACATTAGAATCCACTCCCTGAAA[AG]AGTCACTCTCCTTTGTA ACTAGAGCAACAGCTATCCTTTGTCACCTTTATTTTTCTCTTT
76394 I		A	AGGGTACAAGAAACCTAGCCAACAGGACAGCAA
76394 P	T	A	CGCGCCGAGGTATCCTTGTCTTCAAAAATCCAY
76394 P	C	A	ATGACGTGGCAGACCATCCTTGTCTTCAAAAATCCY
76394 T	T	A	TGGGTGGATTTTTGAAGACAAGGATATGCTGTCCTGTTGGCTAGGTTTCTTGTACCCTAG
76394 T	C	A	TGGGTGGATTTTTGAAGACAAGGATGTGCTGTCCTGTTGGCTAGGTTTCTTGTACCCTAG
76394 IS	[TC]		CTAAGAGGCAAGAAAGCAGCTAACCCCTAGGGTACAAGAAACCTAGCCAACAGGACAGCA[TC]ATCCTTGTCTTCAAA AATCCACCCAGTGGGATCTAAACAGAGATCAGTAAATACTGTCCG
76439 I		S	CGTGGGGGCCCCGCGCT
76439 P	C	S	ATGACGTGGCAGACGTGTGGCGGTCTCGY
76439 P	G	S	CGCGCCGAGGCTGTGGCGGTCTCGY
76439 T	C	S	CCCCCGAGACCGCCACACGCGCGGGGCCCCCACGTC
76439 T	G	S	CCCCCGAGACCGCCACAGGCGCGGGGCCCCCACGTC
76439 IS	[CG]		TCCACGCTCGCTCGCGCGGGAGCCACGCCTCCTCTCCCCCCCGCCCCCGAGACCGCCACA[CG]GCGCGGGGCCCC CACGTCTCCAAGCGGCACTGGAAGGATTCCTCTCCGTCCCGCCAGGGG
76487 I		S	CTGAGGAAAAACAAAAGGTTCTGAAAGCATATTTTTCCTACATTTATTATTTC
76487 P	A	S	CGCGCCGAGGTTGCTACTTACTTGATTTGATTTCY
76487 P	C	S	ATGACGTGGCAGACGTGCTACTTACTTGATTTGATTTY
76487 T	A	S	GCCTGAAATCAAATCAAGTAAGTAGCAAAAATAATAAATGTAGGAAAAATATGCTTTCAGAACCTTTTGTTTTTCCTCAG GG
76487 T	C	S	GCCTGAAATCAAATCAAGTAAGTAGCACAAATAATAAATGTAGGAAAAATATGCTTTCAGAACCTTTTGTTTTTCCTCAG GG
76487 IS	[AC]		GTATGAAGACCACAGAATAGAACAAGCTGACTGGCCTGAAATCAAATCAAGTAAGTAGCA[AC]AAATAATAAATGTAGG AAAAATATGCTTTCAGAACCTTTTGTTTTTCCTCAGGGAAATGA
76497 I		A	GGGATCTGGGCTGGAGGCCTTCCAGT
76497 P	A	A	CGCGCCGAGGAAAGAAGGGGACAAAGTCY
76497 P	G	A	ATGACGTGGCAGACGAAGAAGGGGACAAAGTCY
76497 T	A	A	TCCTGACTTTGTCCCCTTCTTTCTGGAAGGCCTCCAGCCCAGATCCCTG
76497 T	G	A	TCCTGACTTTGTCCCCTTCTTCCTGGAAGGCCTCCAGCCCAGATCCCTG

FIGURE 129D

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                                                GCAGGGGAAAGCTGATGGGAGGGAAAGGGTAAGCAGGGATCTGGGCTGGAGGCCTTCCAG[AG]AAGAAGGGGACAA
                                                AGTCAGGAAGGAGAAGATGAGGCCACCCACTACCCAATGGCTCTAGA
76497 IS    [AG]
76522 I                                     A   CGGCAAACATCTCCTGAGCACCTTCTTGGCT
76522 P     G                               A   ATGACGTGGCAGACGGGAATAAATGGGCCTGY
76522 P     A                               A   CGCGCCGAGGAGGAATAAATGGGCCTGAY
76522 T     G                               A   ACTGTCAGGCCCATTTATTCCCGCCAAGAAGGTGCTCAGGAGATGTTTGCCGGA
76522 T     A                               A   ACTGTCAGGCCCATTTATTCCTGCCAAGAAGGTGCTCAGGAGATGTTTGCCGGA
                                                GACTCCGTCTGCGGGAAGCACCTATGTGTCCGGCAAACATCTCCTGAGCACCTTCTTGGC[GA]GGAATAAATGGGCC
76522 IS    [GA]                                TGACAGTATGGTTCACTAGTGAACAGCCAGCCACAGGCCAGGCACA
76705 I                                     A   TCTTCCAGGTTGTGATAGTATAGTCGATGATGAACTACTGTCACCT
76705 P     G                               A   ATGACGTGGCAGACGGATAGATAGGAGGGTGTGY
76705 P     A                               A   CGCGCCGAGGAGATAGATAGGAGGGTGTGY

76705 T     G                               A   TTTCCACACCCTCCTATCTATCCGGTGACAGTAGTTCATCATCGACTATACTATCACAACCTGGAAGACA

76705 T     A                               A   TTTCCACACCCTCCTATCTATCTGGTGACAGTAGTTCATCATCGACTATACTATCACAACCTGGAAGACA
                                                TATGCCTCATTTATGTCTTCCAGGTTGTGATAGTATAGTCGATGATGAACTACTGTCACC[GA]GATAGATAGGAGGGT
76705 IS    [GA]                                GTGGAAATAGAGTTTCATATGATCCTAATTGTATTCTTTTTGTTT
76734 I                                     S   CAGCACCCTCTCCCCGTCTGGGTA
76734 P     G                               S   ATGACGTGGCAGACCCCTGGGAAGAGGAGY
76734 P     A                               S   CGCGCCGAGGTCCTGGGAAGAGGAGAY
76734 T     G                               S   TACTTCTCCTCTTCCCAGGGACCCAGACGGGGAGAGGGTGCTGGG
76734 T     A                               S   TACTTCTCCTCTTCCCAGGAACCCAGACGGGGAGAGGGTGCTGGG
                                                TACAATCTTCCAGCTTGCTGCCTGTTCTCACACCTCCCGGTTACTTCTCCTCTTCCCAGG[GA]ACCCAGACGGGGAGA
76734 IS    [GA]                                GGGTGCTGGGCGCCGGCAAGCCACAGCGTCTGCTCTCATGATCTC
76736 I                                     S   CAGGATTTGTGAGGGAGCAGTTCTGCGACTACT
76736 P     T                               S   CGCGCCGAGGATGTTTCAACAAGCAGTGAY
76736 P     G                               S   ATGACGTGGCAGACCTGTTTCAACAAGCAGTGAY
76736 T     T                               S   GTCTTCACTGCTTGTTGAAACATGTAGTCGCAGAACTGCTCCCTCACAAATCCTGGG
76736 T     G                               S   GTCTTCACTGCTTGTTGAAACAGGTAGTCGCAGAACTGCTCCCTCACAAATCCTGGG
                                                GAAATTTGGACCGGTTTTCCAGGAGCAGTTTGTTGTCGGTCTTCACTGCTTGTTGAAACA[TG]GTAGTCGCAGAACTG
76736 IS    [TG]                                CTCCCTCACAAATCCTGGGCTGGCCACCAGGATGCACTTTACAAC                                          PELO
76772 I                                     S   CATCCAGCCTTTTCCTCCTTTTGTCTGCAGGTT
76772 P     T                               S   CGCGCCGAGGATGAGGTAGATGACATCGAY
76772 P     C                               S   ATGACGTGGCAGACGTGAGGTAGATGACATCGAY
76772 T     T                               S   TTCATCGATGTCATCTACCTCATACCTGCAGACAAAAGGAGGAAAAGGCTGGATGCA
76772 T     C                               S   TTCATCGATGTCATCTACCTCACACCTGCAGACAAAAGGAGGAAAAGGCTGGATGCA
                                                ATGCCCTGCCCTGGCCTGGACACTCACTCTTTGCCTTCTTCATCGATGTCATCTACCTCA[TC]ACCTGCAGACAAAAG
76772 IS    [TC]                                GAGGAAAAGGCTGGATGCAGCCAGGGGCGCAGTACCTGTTGGGGA
76784 I                                     S   ACGGAACCATCCCTCAGAAGAAGTCCTTATTGCCT
76784 P     C                               S   ATGACGTGGCAGACGGGTGGGAATAGCACCY
76784 P     T                               S   CGCGCCGAGGAGGTGGGAATAGCACCY
76784 T     C                               S   TAACGGTGCTATTCCCACCCGGCAATAAGGACTTCTTCTGAGGGATGGTTCCGTAG
76784 T     T                               S   TAACGGTGCTATTCCCACCTGGCAATAAGGACTTCTTCTGAGGGATGGTTCCGTAG
                                                GATGCAAACCCCACCGTGGCTTTTCTGCTAGCCATAGCCAGTAACGGTGCTATTCCCACC[CT]GGCAATAAGGACTTC
76784 IS    [CT]                                TTCTGAGGGATGGTTCCGTAGCATGGCCACAGCCCCTCGCAGTAA
76825 I                                     S   GCTTAAGAAGTTCCTGGGAAGAAGCTTGCTGACAGC
76825 P     A                               S   CGCGCCGAGGTGTAGATACTCCCTGGACY
76825 P     T                               S   ATGACGTGGCAGACAGTAGATACTCCCTGGACTY
76825 T     A                               S   ACTCAGTCCAGGGAGTATCTACACTGTCAGCAAGCTTCTTCCCAGGAACTTCTTAAGCCC
76825 T     T                               S   ACTCAGTCCAGGGAGTATCTACTCTGTCAGCAAGCTTCTTCCCAGGAACTTCTTAAGCCC
                                                TGTGGACCCCATTATTAGAATCACATCCAGAAAGGCTGACTCAGTCCAGGGAGTATCTAC[AT]CTGTCAGCAAGCTTC
76825 IS    [AT]                                TTCCCAGGAACTTCTTAAGCCCAACCCCAGCCATTCACAGACTAG
76849 I                                     S   CAGATGACCATTGCTAGCAAGAAACAGGAGGCGT
76849 P     C                               S   ATGACGTGGCAGACGTGGCCATATTCCAAAAACY
76849 P     T                               S   CGCGCCGAGGATGGCCATATTCCAAAAACY
76849 T     C                               S   AGTGGTTTTTGGAATATGGCCACCGCCTCCTGTTTCTTGCTAGCAATGGTCATCTGAA
76849 T     T                               S   AGTGGTTTTTGGAATATGGCCATCGCCTCCTGTTTCTTGCTAGCAATGGTCATCTGAA
                                                GGGAGCTTGCCTTAGTCATCCTGGTGAAATGGGACAGAAGTGGTTTTTGGAATATGGCCA[CT]CGCCTCCTGTTTCTT
76849 IS    [CT]                                GCTAGCAATGGTCATCTGAAGGGAGGGTGCTAGCCTGGACATCCA
76874 I                                     A   AACAGAAGGAATTAATTTGGTTACGGCCGTGCTCACTAAA
76874 P     C                               A   ATGACGTGGCAGACCCCAGTTACTGCACAGAY
76874 P     T                               A   CGCGCCGAGGTCCAGTTACTGCACAGAY
76874 T     C                               A   TGCATCTGTGCAGTAACTGGGTTAGTGAGCACGGCCGTAACCAAATTAATTCCTTCTGTTTT
76874 T     T                               A   TGCATCTGTGCAGTAACTGGATTAGTGAGCACGGCCGTAACCAAATTAATTCCTTCTGTTTT
                                                CAGAATCGCAATCTTATTAAAAACAGAAGGAATTAATTTGGTTACGGCCGTGCTCACTAA[CT]CCAGTTACTGCACAGA
76874 IS    [CT]                                TGCAAATCAAAGAAGATAGGTTCTGGACATGTGCCTATCGTTTG
76896 I                                     S   CTATAGGAAATTGACTTTCAAAAAGTAGATGATTGTGATTAAATAAAATACAAAATGTTCA
76896 P     A                               S   CGCGCCGAGGTATTAATCTACTCTAAAAACAATTTAAGAAAAY
76896 P     G                               S   ATGACGTGGCAGACCATTAATCTACTCTAAAAACAATTTAAGAAY
                                                TATATTTTCTTAAATTGTTTTTAGAGTAGATTAATAGAACATTTTGTATTTTATTTAATCACAATCATCTACTTTTTGAAAG
76896 T     A                               S   TCAATTTCCTATAG
                                                TATATTTTCTTAAATTGTTTTTAGAGTAGATTAATGGAACATTTTGTATTTTATTTAATCACAATCATCTACTTTTTGAAAG
76896 T     G                               S   TCAATTTCCTATAG
                                                ATTAATATAAAATAAAACTGGGACATATATTTTCTTAAATTGTTTTTAGAGTAGATTAAT[AG]GAACATTTTGTATTTTATT
76896 IS    [AG]                                TAATCACAATCATCTACTTTTTGAAAGTCAATTTCCTATAG
76951 I                                     S   GTCTCTATTTCTGGGAAGAGGTTCAGCAGCAGGAT
76951 P     T                               S   CGCGCCGAGGACACATCTCTTTGGGTAGAY
76951 P     C                               S   ATGACGTGGCAGACGCACATCTCTTTGGGTAGY
76951 T     T                               S   CCCATCTACCCAAAGAGATGTGTTCCTGCTGCTGAACCTCTTCCCAGAAATAGAGACCA
76951 T     C                               S   CCCATCTACCCAAAGAGATGTGCTCCTGCTGCTGAACCTCTTCCCAGAAATAGAGACCA
                                                GTGTTTTCCTGCAAATGAAGTTTTACAGGAGAATTATACCCATCTACCCAAAGAGATGTG[TC]TCCTGCTGCTGAACCT
76951 IS    [TC]                                CTTCCCAGAAATAGAGACCAGTGCATGAATTCACACAGGCCAGG
77023 I                                     A   GAGGAGACTCTTCTGTTACCACCAAGCCAGGAAT
77023 P     G                               A   ATGACGTGGCAGACGTTTCATGGCTTGGGAAY
77023 P     A                               A   CGCGCCGAGGATTTCATGGCTTGGGAAGY
77023 T     G                               A   TGGTCTTCCCAAGCCATGAAACTTCCTGGCTTGGTGGTAACAGAAGAGTCTCCTCCA
77023 T     A                               A   TGGTCTTCCCAAGCCATGAAATTTCCTGGCTTGGTGGTAACAGAAGAGTCTCCTCCA
                                                ACTCAGAGGCTCTGGAAATCTTACCTGGAGGAGACTCTTCTGTTACCACCAAGCCAGGAA[GA]TTTCATGGCTTGGGA
77023 IS    [GA]                                AGACCAAGAGGAAGTCCACCTCCCCCTCTCCTGCACCTGGAGTCT
77060 I                                     A   GTAACTGTTAGAGCTACGAGGAAGGTGGGGACAAT
77060 P     G                               A   ATGACGTGGCAGACGCAAGAGGAAACCCTTGY
77060 P     A                               A   CGCGCCGAGGACAAGAGGAAACCCTTGAY
77060 T     G                               A   AAATTCAAGGGTTTCCTCTTGCTTGTCCCCACCTTCCTCGTAGCTCTAACAGTTACCT
77060 T     A                               A   AAATTCAAGGGTTTCCTCTTGTTTGTCCCCACCTTCCTCGTAGCTCTAACAGTTACCT
                                                GTCAGCACCAGGGGCTACGAGAGGAGGTAACTGTTAGAGCTACGAGGAAGGTGGGGACAA[GA]CAAGAGGAAACCC
77060 IS    [GA]                                TTGAATTTTCCATTCCCTGCACACGGGGCCATAGCCTTCTGCCAGGG
77079 I                                     A   CATCATGTGACATATTCCAGCTGTGAAAGAGGAACT
77079 P     A                               A   CGCGCCGAGGAGTACAGAAATGTGGGACTY
```

FIGURE 129D

77079 P	G	A	ATGACGTGGCAGACGGTACAGAAATGTGGGACY
77079 T	A	A	GTTCAGTCCCACATTTCTGTACTGTTCCTCTTTCACAGCTGGAATATGTCACATGATGAA
77079 T	G	A	GTTCAGTCCCACATTTCTGTACCGTTCCTCTTTCACAGCTGGAATATGTCACATGATGAA
77079 IS	[AG]		CCATGGTTCTGTTTCTATACAACTTCATCATGTGACATATTCCAGCTGTGAAAGAGGAAC[AG]GTACAGAAATGTGGGA CTGAACTTGGCTGCTCCATTCAGATGGTCCAGGGGTTTAGAGTG
77147 I		S	CAACTTTAACTGGGCTTGAATGTGTGGGTGATCTGTTT
77147 P	C	S	ATGACGTGGCAGACGTCTGATTACTTTCTTTCTGTTACY
77147 P	G	S	CGCGCCGAGGCTCTGATTACTTTCTTTCTGTTACY
77147 T	C	S	AACAGTAACAGAAAGAAAGTAATCAGACAACAGATCACCCACACATTCAAGCCCAGTTAAAGTTGGC
77147 T	G	S	AACAGTAACAGAAAGAAAGTAATCAGAGAACAGATCACCCACACATTCAAGCCCAGTTAAAGTTGGC
77147 IS	[CG]		AAGTTTAATCTACGAATCCAATCTCTACAGAGAAACAGTAACAGAAAGAAAGTAATCAGA[CG]AACAGATCACCCACAC ATTCAAGCCCAGTTAAAGTTGGCAAGAATTGTATCTAGTTAGGC
77177 I		A	GGTTCAGCAGCCTGACCTCTACATCTAGACAAGGAAT
77177 P	G	A	ATGACGTGGCAGACGTGAGGAGGGTGATTGY
77177 P	A	A	CGCGCCGAGGATGAGGAGGGTGATTGCY
77177 T	G	A	CCCAGCAATCACCCTCCTCACTTCCTTGTCTAGATGTAGAGGTCAGGCTGCTGAACCAG
77177 T	A	A	CCCAGCAATCACCCTCCTCATTTCCTTGTCTAGATGTAGAGGTCAGGCTGCTGAACCAG
77177 IS	[GA]		CCAGCAGTAGCCCATGTGTTGGCTGGTTCAGCAGCCTGACCTCTACATCTAGACAAGGAA[GA]TGAGGAGGGTGATT GCTGGGCATTGGTGTAGGTTTATGACGGAGCAGCATAAGATTTTCC
77206 I		A	GCCTCCCTAAAGATGGACCAAGAAAGAGAGATGCTT
77206 P	G	A	ATGACGTGGCAGACGAGGAAAGAGACCTCCAY
77206 P	A	A	CGCGCCGAGGAAGGAAAAGAGACCTCCAGY
77206 T	G	A	CTTGCTGGAGGTCTCTTTCCTCAGCATCTCTCTTTCTTGGTCCATCTTTAGGGAGGCTT
77206 T	A	A	CTTGCTGGAGGTCTCTTTCCTTAGCATCTCTCTTTCTTGGTCCATCTTTAGGGAGGCTT
77206 IS	[GA]		CTTGTTAAAGGTTGGAACCAGAAAAGCCTCCCTAAAGATGGACCAAGAAAGAGAGATGCT[GA]AGGAAAGAGACCTCC AGCAAGTCCAGCCAGAGCCTTTTGCATTCTAAGCCCAGTGGAAAG
77244 I		S	CAACGAGAGGAACACTTGCTCCACTCCACCA
77244 P	G	S	ATGACGTGGCAGACCAGCAACCTCTAATCTGCY
77244 P	A	S	CGCGCCGAGGTAGCAACCTCTAATCTGCCY
77244 T	G	S	TCACGGCAGATTAGAGGTTGCTGGGTGGAGTGGAGCAAGTGTTCCTCTCGTTGGG
77244 T	A	S	TCACGGCAGATTAGAGGTTGCTAGGTGGAGTGGAGCAAGTGTTCCTCTCGTTGGG
77244 IS	[GA]		GTCCTTTACACACCCAAATCCCTTGGCTCAAGGTCCCATCACGGCAGATTAGAGGTTGCT[GA]GGTGGAGTGGAGCA AGTGTTCCTCTCGTTGGGATGGTTGGCTACGTCTCCCAGGAATGCT
77312 I		S	AGTGTGCGAGCTTTTCTGTTTACCAATGGCCAGA
77312 P	A	S	CGCGCCGAGGTGAAAGTTTTAGGCTTTATACATACY
77312 P	G	S	ATGACGTGGCAGACCGAAAGTTTTAGGCTTTATACATAY
77312 T	A	S	ACTGGTATGTATAAAGCCTAAAACTTTCACTGGCCATTGGTAAACAGAAAAGCTCGCACACTTG
77312 T	G	S	ACTGGTATGTATAAAGCCTAAAACTTTCGCTGGCCATTGGTAAACAGAAAAGCTCGCACACTTG
77312 IS	[AG]		ATGCCTATGTATCCTGACCTTTCAAAGAGTTCACTGGTATGTATAAAGCCTAAAACTTTC[AG]CTGGCCATTGGTAAAC AGAAAAGCTCGCACACTTGATGATTATGATACATTTGTCCTAAG
77351 I		A	GGGTGGGGACCTCACCTTTGTAGAGCGT
77351 P	G	A	ATGACGTGGCAGACGTGTCTCTCGGGATTTGY
77351 P	A	A	CGCGCCGAGGATGTCTCTCGGGATTTGTY
77351 T	G	A	TCCAACAAATCCCGAGAGACACCGCTCTACAAAGGTGAGGTCCCCACCCCG
77351 T	A	A	TCCAACAAATCCCGAGAGACATCGCTCTACAAAGGTGAGGTCCCCACCCCG
77351 IS	[GA]		CTTCTGGATTCTTCCGCAGGAAAGCTCACTCCGGGGTGGGGACCTCACCTTTGTAGAGCG[GA]TGTCTCTCGGGATT TGTTGGAGATGTCCGGCTCTGCCCCTGCTTGGAGCAGTGACAGGAG
77363 I		S	TCTGTGATAGTGTCAGTTCCATTTAATTTGGTGTATATTTTTAAAATGTCAAAT
77363 P	T	S	CGCGCCGAGGAGCAGTTACCATAACTTAATTTTATAAY
77363 P	C	S	ATGACGTGGCAGACGGCAGTTACCATAACTTAATTTTAY
77363 T	T	S	ATGCTTATAAAATTAAGTTATGGTAACTGCTTTTGACATTTTAAAAATATACACCAAATTAAATGGAACTGACACTATCAC AGAAG
77363 T	C	S	ATGCTTATAAAATTAAGTTATGGTAACTGCCTTTGACATTTTAAAAATATACACCAAATTAAATGGAACTGACACTATCA CAGAAG
77363 IS	[TC]		TCACAATAATATGCAACATACTTCCCTTATATGCTTATAAAATTAAGTTATGGTAACTGC[TC]TTTGACATTTTAAAAATA TACACCAAATTAAATGGAACTGACACTATCACAGAAGAAGTT
77378 I		S	TGTACCCTGAGTCCCAAGAATGGATTTTCCCAGATAGACT
77378 P	T	S	CGCGCCGAGGATATGTGAGCAATATTTCAGAAGY
77378 P	C	S	ATGACGTGGCAGACGTATGTGAGCAATATTTCAGAAGY
77378 T	T	S	GATGCTTCTGAAATATTGCTCACATATGTCTATCTGGGAAAATCCATTCTTGGGACTCAGGGTACACA
77378 T	C	S	GATGCTTCTGAAATATTGCTCACATACGTCTATCTGGGAAAATCCATTCTTGGGACTCAGGGTACACA
77378 IS	[TC]		GACAAAGTGGAAACTATTAGATAATTTAATTAATGATGCTTCTGAAATATTGCTCACATA[TC]GTCTATCTGGGAAAATC CATTCTTGGGACTCAGGGTACACATGGAAGAATCATCTCAACA
77388 I		A	TCTGGACTGTAGTACAGAAGCAAGGTGCCT
77388 P	G	A	ATGACGTGGCAGACGTTTGTTTTCTTCAGTACTGGY
77388 P	A	A	CGCGCCGAGGATTTGTTTTCTTCAGTACTGGTY
77388 T	G	A	TAGCACCAGTACTGAAGAAAACAAACGGCACCTTGCTTCTGTACTACAGTCCAGAGT
77388 T	A	A	TAGCACCAGTACTGAAGAAAACAAATGGCACCTTGCTTCTGTACTACAGTCCAGAGT
77388 IS	[GA]		TTTCGAAATGAAGAGTAGAATCTTAAATGACTCTGGACTGTAGTACAGAAGCAAGGTGCC[GA]TTTGTTTTCTTCAGTA CTGGTGCTAAATTTACCAAGATTTACCATCTTGCTTAGTGAACA
77500 I		A	GCCCCCAGAGCTGTGCCCCGA
77500 P	C	A	ATGACGTGGCAGACCTGGGTACAGAGCCCY
77500 P	T	A	CGCGCCGAGGTTGGGTACAGAGCCCY
77500 T	C	A	GGAAGGGCTCTGTACCCAGCGGGGCACAGCTCTGGGGGCTC
77500 T	T	A	GGAAGGGCTCTGTACCCAACGGGGCACAGCTCTGGGGGCTC
77500 IS	[CT]		ATCTAAGCCAAGGCCCCACCCCTCCCCTAAGCAAGGCTGAGCCCCCAGAGCTGTGCCCCG[CT]TGGGTACAGAGCCC TTCCTGGAGAGGGAGACCTTCCACTTCCCAGTCGGGCAGGAACCAC
77508 I		S	AGGAGTATCTGGAGTTCGGAGATGGTGGAAGACAT
77508 P	T	S	CGCGCCGAGGAGTGTACAATGTCAGAGCTY
77508 P	C	S	ATGACGTGGCAGACGGTGTACAATGTCAGAGCY
77508 T	T	S	TCACAGCTCTGACATTGTACACTTGTCTTCCACCATCTCCGAACTCCAGATACTCCTAC
77508 T	C	S	TCACAGCTCTGACATTGTACACCTGTCTTCCACCATCTCCGAACTCCAGATACTCCTAC
77508 IS	[TC]		GAGGTGGGAACCTTGGATTCAGGCGTTGACTCAGCATCTCACAGCTCTGACATTGTACAC[TC]TGTCTTCCACCATCT CCGAACTCCAGATACTCCTACAGCGAAAGGGATCTGGGCCCAACA
77510 I		A	GGGAAGGGAAGGGAACATCTGATGAGGGCT
77510 P	A	A	CGCGCCGAGGAAGGTGTTTTAGAGAAGTTCCY
77510 P	G	A	ATGACGTGGCAGACGAGGTGTTTTAGAGAAGTTCCY
77510 T	A	A	AAGTGGAACTTCTCTAAAACACCTTGCCCTCATCAGATGTTCCCTTCCCTTCCCTC
77510 T	G	A	AAGTGGAACTTCTCTAAAACACCTCGCCCTCATCAGATGTTCCCTTCCCTTCCCTC
77510 IS	[AG]		CTGGAGGATAAATTCCTGGAGACTTGAGAGAGGGAAGGGAAGGGAACATCTGATGAGGGC[AG]AGGTGTTTTAGAGA AGTTCCACTTGCCAAGGAATGAGCTCCTGTAGGTCATGAAGCAACC
77619 I		S	ACCAACAAGCTGAAGTTACCCCCACTGGCA
77619 P	G	S	ATGACGTGGCAGACCGTCTTGGAAAACAGACTY
77619 P	A	S	CGCGCCGAGGTGTCTTGGAAAACAGACTGY
77619 T	G	S	TGATCAGTCTGTTTTCCAAGACGGCCAGTGGGGGTAACTTCAGCTTGTTGGTTA

77619 T	A	S	TGATCAGTCTGTTTTCCAAGACAGCCAGTGGGGGTAACTTCAGCTTGTTGGTTA	
77619 IS	[GA]		GGAATCAGCATGAATTATGTAAGTCTATAGTTCTTACTTGATCAGTCTGTTTTCCAAGAC[GA]GCCAGTGGGGGTAACT TCAGCTTGTTGGTTAGAGATGGGTGCTTGGGACATCAGGGAGTC	
77649 I		S	GGTCCCAGGAGGCACGCCCTCC	
77649 P	A	S	CGCGCCGAGGTACATTTCCGGGAGTCAY	
77649 P	C	S	ATGACGTGGCAGACGACATTTCCGGGAGTCAY	
77649 T	A	S	AGCCTGACTCCCGGAAATGTAGAGGGCGTGCCTCCTGGGACCGT	
77649 T	C	S	AGCCTGACTCCCGGAAATGTCGAGGGCGTGCCTCCTGGGACCGT	
77649 IS	[AC]		TTGCCAAACTGTGAAAAACGTTCTTCCAGTCCCCTCTGAAAGCCTGACTCCCGGAAATGT[AC]GAGGGCGTGCCTCCT GGGACCGTCTTCACATCCTTCCCATGGGAAAGGCAGGCACTCTCG	
77664 I		A	CAGGGCCCAGCCAGGGACCATCT	
77664 P	C	A	ATGACGTGGCAGACCTCCCCAGCTCTGCY	
77664 P	A	A	CGCGCCGAGGATCCCCAGCTCTGCY	
77664 T	C	A	GGAGGCAGAGCTGGGGAGGATGGTCCCTGGCTGGGCCCTGCT	
77664 T	A	A	GGAGGCAGAGCTGGGGATGATGGTCCCTGGCTGGGCCCTGCT	
77664 IS	[CA]		CCTCCATCAGGGGGTTGGGAGAGGCCAGAGACCAGGAGCAGGGCCCAGCCAGGGACCATC[CA]TCCCCAGCTCTGC CTCCCCTGGCCAGCCTGACCCACTCCTCACCTCAGGCCAAAGTGGGG	
77671 I		A	CCTGCCCAGTGGGGCCATGAGTT	
77671 P	G	A	ATGACGTGGCAGACGAGTGACCATGCTGTGY	
77671 P	A	A	CGCGCCGAGGAAGTGACCATGCTGTGY	
77671 T	G	A	CTTACACAGCATGGTCACTCACTCATGGCCCCACTGGGCAGGGT	
77671 T	A	A	CTTACACAGCATGGTCACTTACTCATGGCCCCACTGGGCAGGGT	
77671 IS	[GA]		CCTAGCCTTGGGACCCCAGAGGGTTTCCTCAGCCACACCCTGCCCAGTGGGGCCATGAGT[GA]AGTGACCATGCTGT GTAAGGAAAGCAGGGATGGTGGCTTTTCTCTCTTCTAGCTGAGGAA	
77678 I		S	CCATAAGATGATGTTTTCCTTCCCTGTGTGCTGCAGT	
77678 P	C	S	ATGACGTGGCAGACGTACACACGGAGGGCY	
77678 P	T	S	CGCGCCGAGGATACACACGGAGGGCY	
77678 T	C	S	CAGAGCCCTCCGTGTGTACCTGCAGCACACAGGGAAGGAAAACATCATCTTATGGAT	
77678 T	T	S	CAGAGCCCTCCGTGTGTATCTGCAGCACACAGGGAAGGAAAACATCATCTTATGGAT	
77678 IS	[CT]		CATTCTGCCATCGAGCTCCTGACACTGCTTGAGGGTGAACTCCAGAGCCCTCCGTGTGTA[CT]CTGCAGCACACAGG GAAGGAAAACATCATCTTATGGATGATGATGTCTGTAATTTGCATA	
77697 I		A	GCCTCGAAATACCCATCCCAAACCCTA	
77697 P	T	A	CGCGCCGAGGTAGAGTGATGTTATGCTCTGY	
77697 P	C	A	ATGACGTGGCAGACCAGAGTGATGTTATGCTCTGY	
77697 T	T	A	CTAGCAGAGCATAACATCACTCTAAGGGTTTGGGATGGGTATTTCGAGGCTA	
77697 T	C	A	CTAGCAGAGCATAACATCACTCTGAGGGTTTGGGATGGGTATTTCGAGGCTA	
77697 IS	[TC]		AAACATACACACACACAAAGATTCCTTAAAGTTAGCCTCGAAATACCCATCCCAAACCCT[TC]AGAGTGATGTTATGCT CTGCTAGAAGCTTCTGAAACAAAATGCCTTTTCAGTGTTGTGAA	
77707 I		A	AGCAGGTGGTGGACCTGGGAAATCCCA	
77707 P	C	A	ATGACGTGGCAGACCTGGTGGAAAATAATCTCGAY	
77707 P	T	A	CGCGCCGAGGTTGGTGGAAAATAATCTCGAY	
77707 T	C	A	CTTCTCGAGATTATTTTCCACCAGGGGATTTCCCAGGTCCACCACCTGCTCC	
77707 T	T	A	CTTCTCGAGATTATTTTCCACCAAGGGATTTCCCAGGTCCACCACCTGCTCC	
77707 IS	[CT]		AAAAAAAGTTTAAAAAAGCATACTTGCAAATGGAGCAGGTGGTGGACCTGGGAAATCCC[CT]TGGTGGAAAATAATCT CGAGAAGCTCCAAACATGGCTCCTGGAGGAGGTGGGGGGAAAGG	
77750 I		S	GCACCACAGCTGGCTGGCAGGATT	
77750 P	C	S	ATGACGTGGCAGACGAGAAGGATAGAGAGTAGTCAY	
77750 P	T	S	CGCGCCGAGGAAGAAGGATAGAGAGTAGTCACY	
77750 T	C	S	CATAGTGACTACTCTCTATCCTTCTCATCCTGCCAGCCAGCTGTGGTGCAT	
77750 T	T	S	CATAGTGACTACTCTCTATCCTTCTTATCCTGCCAGCCAGCTGTGGTGCAT	
77750 IS	[CT]		ACATGGGACTGGTGGCTGAGCAAGCAGCCATTACTCATAGTGACTACTCTCTATCCTTC[CT]ATCCTGCCAGCCAGC TGTGGTGCATCTACAGGGCCAAGGGTCAGCAATTCAAGTCAAGAA	
77793 I		S	GGCGCTGGGCCGCTTCGCC	
77793 P	A	S	CGCGCCGAGGTTTGGACTTCGGGCTY	
77793 P	C	S	ATGACGTGGCAGACGTTGGACTTCGGGCTY	
77793 T	A	S	CACAAGCCCGAAGTCCAACGCGAAGCGGCCCAGCGCCAG	
77793 T	C	S	CACAAGCCCGAAGTCCAACGCGAAGCGGCCCAGCGCCAG	
77793 IS	[AC]		GATATTGACGCGGGCCTCGCGGGTGCCCGCAGGGGGCGCCGGCACAAGCCCGAAGTCCAA[AC]GCGAAGCGGCCC AGCGCCAGCACTGCGTGGCCGCACATGGAGCTGTAGCCCTCGTTGTGC	
77878 I		S	CGGAAATGGACCTGAAGTGGATGAGCTTTGTGCA	
77878 P	G	S	ATGACGTGGCAGACCCCCTCAGTTAGAGCCY	
77878 P	A	S	CGCGCCGAGGTCCCTCAGTTAGAGCCY	
77878 T	G	S	GGGCGGCTCTAACTGAGGGGGCACAAAGCTCATCCACTTCAGGTCCATTTCCGAG	
77878 T	A	S	GGGCGGCTCTAACTGAGGGAGCACAAAGCTCATCCACTTCAGGTCCATTTCCGAG	
77878 IS	[GA]		TCACTATAACACCCAGGGGTGGCCGCTTTCTTAGGGTGTAAGGGCGGCTCTAACTGAGGG[GA]GCACAAAGCTCATC CACTTCAGGTCCATTTCCGAGAAACATTTTGGGAAGCTCACTGCAG	
77929 I		A	CCATTCACATGCACCAAATGAGAAGGCCCAGAT	
77929 P	A	A	CGCGCCGAGGAATTTTGAGTGTGAGCAACAY	
77929 P	C	A	ATGACGTGGCAGACCATTTTGAGTGTGAGCAACY	
77929 T	A	A	TCTGTGTTGCTCACACTCAAAATTTCTGGGCCTTCTCATTTGGTGCATGTGAATGGTG	
77929 T	C	A	TCTGTGTTGCTCACACTCAAAATGTCTGGGCCTTCTCATTTGGTGCATGTGAATGGTG	
77929 IS	[AC]		GCCCCATCCTAGACTTCACTCATATGCACCATTCACATGCACCAAATGAGAAGGCCCAGA[AC]ATTTTGAGTGTGAGC AACACAGAACCTAGAGACACAATTTATGTGGTGGTGGGGTGGCTT	
78038 I		S	CTGGGGCTGCACATTCACGTAGCCAGT	
78038 P	C	S	ATGACGTGGCAGACGGTCCATGAGTGACACAY	
78038 P	T	S	CGCGCCGAGGAGTCCATGAGTGACACAY	
78038 T	C	S	TCGCTGTGTCACTCATGGACCCTGGCTACGTGAATGTGCAGCCCCAGCC	
78038 T	T	S	TCGCTGTGTCACTCATGGACTCTGGCTACGTGAATGTGCAGCCCCAGCC	
78038 IS	[CT]		ACCTTCCTGCTCCTGGTGCTGGGCTCCCTGCTGCTCTACCTCGCTGTGTCACTCATGGAC[CT]CTGGCTACGTGAAT GTGCAGCCCCAGCCTCAGGTAACCAGGGGCCCCTACTCTCACCAAC	
78040 I		S	CCTTTTTACCTTTTTTGCTATCTTTCTCTGTACCTCCTTTTTCAA	
78040 P	G	S	ATGACGTGGCAGACCCTTCAGATTCTGTTGCCY	
78040 P	A	S	CGCGCCGAGGTCTTCAGATTCTGTTGCCY	
78040 T	G	S	ACTCGGCAACAGAATCTGAAGGTGAAAAAGGAGGTACAGAGAAAGATAGCAAAAAAGGTAAAAAGGAT	
78040 T	A	S	ACTCGGCAACAGAATCTGAAGATGAAAAAGGAGGTACAGAGAAAGATAGCAAAAAAGGTAAAAAGGAT	
78040 IS	[GA]		ATAACGAAAAAGATAAAAAGGATTCAAACAAAGGCAAAGACTCGGCAACAGAATCTGAAG[GA]TGAAAAAGGAGGTAC AGAGAAAGATAGCAAAAAAGGTAAAAAGGATTCAAAGAAGGGCAA	CYLC2
78043 I		S	CATCCTAGGGAAGCCGACCCACGGAAATT	
78043 P	C	S	ATGACGTGGCAGACGAGATGCCAGAATCATGCY	
78043 P	T	S	CGCGCCGAGGAAGATGCCAGAATCATGCY	
78043 T	C	S	GCCTGCATGATTCTGGCATCTCATTTCCGTGGGTCGGCTTCCCTAGGATGTT	
78043 T	T	S	GCCTGCATGATTCTGGCATCTTATTTCCGTGGGTCGGCTTCCCTAGGATGTT	
78043 IS	[CT]		GAACCTGAGCTTGAGACAGGCCAGCATGAACAATAGAAAGCCTGCATGATTCTGGCATCT[CT]ATTTCCGTGGGTCGG CTTCCCTAGGATGTTCCTGCTTTCTCAGATGCTTCCCTTCTTCA	
78065 I		A	GCCACCCCCAAGAAGAGCGCCAT	
78065 P	A	A	CGCGCCGAGGAGAAGACCCCAAAGAAGGY	
78065 P	G	A	ATGACGTGGCAGACGGAAGACCCCAAAGAAGY	

FIGURE 129D

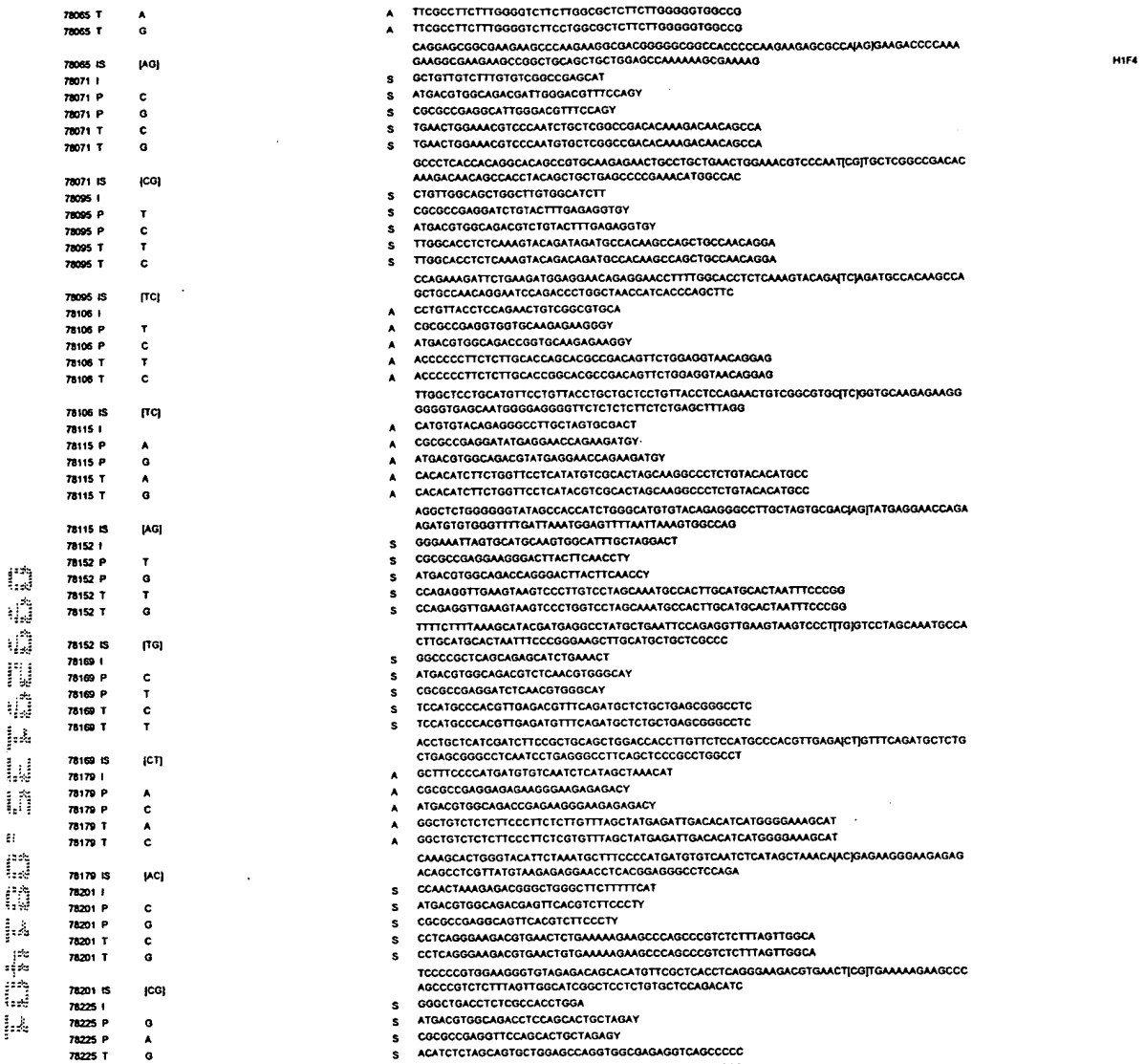
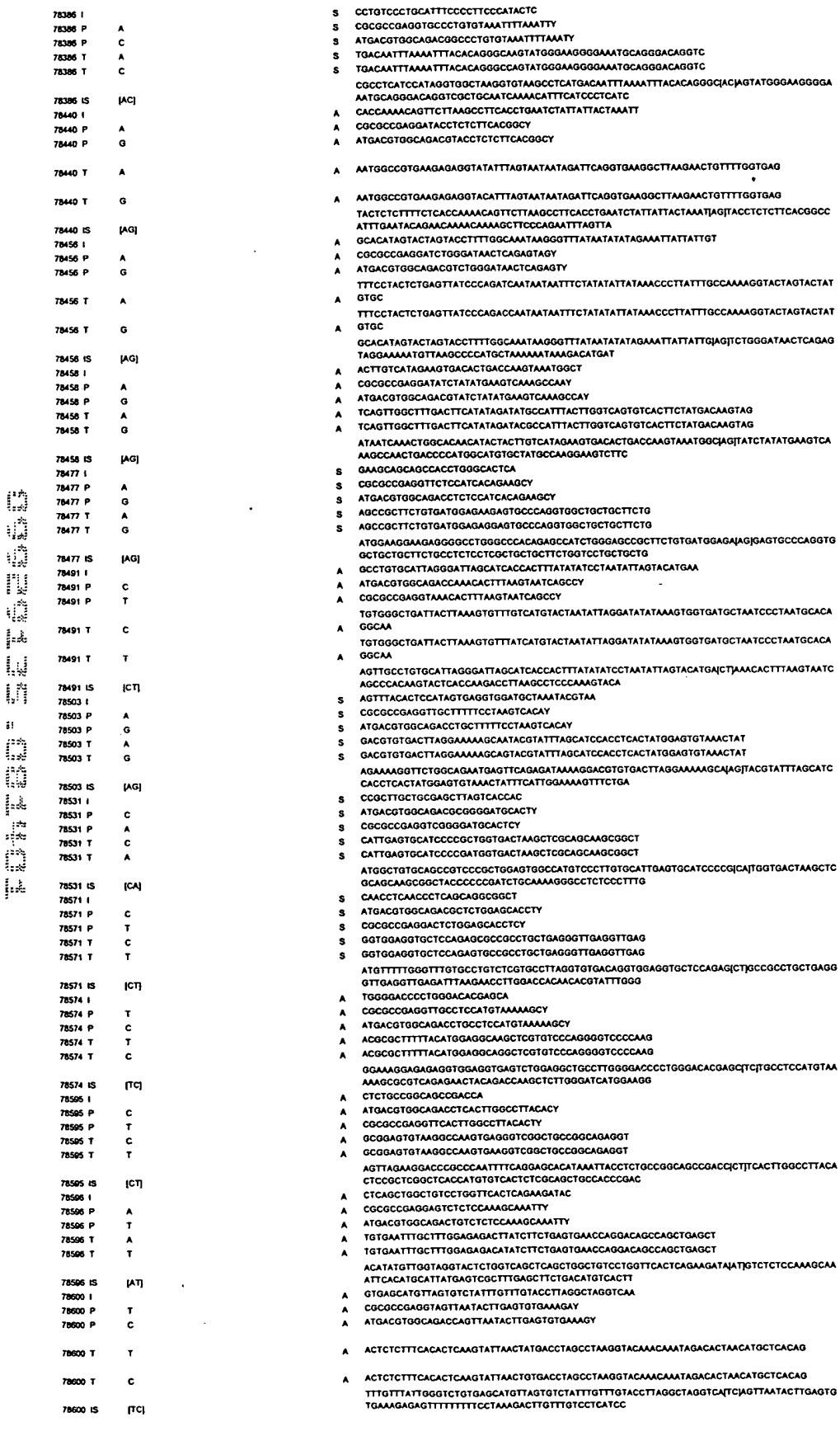

78065 T A A TTCGCCTTCTTTGGGGTCTTCTTGGCGCTCTTCTTGGGGGTGGCCG
78065 T G A TTCGCCTTCTTTGGGGTCTTCCTGGCGCTCTTCTTGGGGGTGGCCG
CAGGAGCGGCGAAGAAGCCCAAGAAGGCGACGGGGGCGGCCACCCCCAAGAAGAGCGCCA[AG]GAAGACCCCAAA
78065 IS [AG] GAAGGCGAAGAAGCCGGCTGCAGCTGCTGGAGCCAAAAAGCGAAAAG H1F4
78071 I S GCTGTTGTCTTTGTGTCGGCCGAGCAT
78071 P C S ATGACGTGGCAGACGATTGGGACGTTTCCAGY
78071 P G S CGCGCCGAGGCATTGGGACGTTTCCAGY
78071 T C S TGAACTGGAAACGTCCCAATCTGCTCGGCCGACACAAAGACAACAGCCA
78071 T G S TGAACTGGAAACGTCCCAATGTGCTCGGCCGACACAAAGACAACAGCCA
GCCCTCACCACAGGCACAGCCGTGCAAGAGAACTGCCTGCTGAACTGGAAACGTCCCAAT[CG]TGCTCGGCCGACAC
78071 IS [CG] AAAGACAACAGCCACCTACAGCTGCTGAGCCCCGAAACATGGCCAC
78095 I S CTGTTGGCAGCTGGCTTGTGGCATCTT
78095 P T S CGCGCCGAGGATCTGTACTTTGAGAGGTGY
78095 P C S ATGACGTGGCAGACGTCTGTACTTTGAGAGGTGY
78095 T T S TTGGCACCTCTCAAAGTACAGATAGATGCCACAAGCCAGCTGCCAACAGGA
78095 T C S TTGGCACCTCTCAAAGTACAGACAGATGCCACAAGCCAGCTGCCAACAGGA
CCAGAAAGATTCTGAAGATGGAGGAACAGAGGAACCTTTTGGCACCTCTCAAAGTACAGA[TC]AGATGCCACAAGCCA
78095 IS [TC] GCTGCCAACAGGAATCCAGACCCTGGCTAACCATCACCCAGCTTC
78106 I A CCTGTTACCTCCAGAACTGTCGGCGTGCA
78106 P T A CGCGCCGAGGTGGTGCAAGAGAAGGGY
78106 P C A ATGACGTGGCAGACCGGTGCAAGAGAAGGY
78106 T T A ACCCCCCTTCTCTTGCACCAGCACGCCGACAGTTCTGGAGGTAACAGGAG
78106 T C A ACCCCCCTTCTCTTGCACCGGCACGCCGACAGTTCTGGAGGTAACAGGAG
TTGGCTCCTGCATGTTCCTGTTACCTGCTGCTCCTGTTACCTCCAGAACTGTCGGCGTGC[TC]GGTGCAAGAGAAGG
78106 IS [TC] GGGGTGAGCAATGGGGAGGGGTTCTCTCTCTTCTCTGAGCTTTAGG
78115 I A CATGTGTACAGAGGGCCTTGCTAGTGCGACT
78115 P A A CGCGCCGAGGATATGAGGAACCAGAAGATGY
78115 P G A ATGACGTGGCAGACGTATGAGGAACCAGAAGATGY
78115 T A A CACACATCTTCTGGTTCCTCATATGTCGCACTAGCAAGGCCCTCTGTACACATGCC
78115 T G A CACACATCTTCTGGTTCCTCATACGTCGCACTAGCAAGGCCCTCTGTACACATGCC
AGGCTCTGGGGGGTATAGCCACCATCTGGGCATGTGTACAGAGGGCCTTGCTAGTGCGAC[AG]TATGAGGAACCAGA
78115 IS [AG] AGATGTGTGGGTTTTGATTAAATGGAGTTTTAATTAAAGTGGCCAG
78152 I S GGGAAATTAGTGCATGCAAGTGGCATTTGCTAGGACT
78152 P T S CGCGCCGAGGAAGGGACTTACTTCAACCTY
78152 P G S ATGACGTGGCAGACCAGGGACTTACTTCAACCY
78152 T T S CCAGAGGTTGAAGTAAGTCCCTTGTCCTAGCAAATGCCACTTGCATGCACTAATTTCCCGG
78152 T G S CCAGAGGTTGAAGTAAGTCCCTGGTCCTAGCAAATGCCACTTGCATGCACTAATTTCCCGG
TTTTCTTTTAAAGCATACGATGAGGCCTATGCTGAATTCCAGAGGTTGAAGTAAGTCCCT[TG]GTCCTAGCAAATGCCA
78152 IS [TG] CTTGCATGCACTAATTTCCCGGGAAGCTTGCATGCTGCTCGCCC
78169 I S GGCCCGCTCAGCAGAGCATCTGAAACT
78169 P C S ATGACGTGGCAGACGTCTCAACGTGGGCAY
78169 P T S CGCGCCGAGGATCTCAACGTGGGCAY
78169 T C S TCCATGCCCACGTTGAGACGTTTCAGATGCTCTGCTGAGCGGGCCTC
78169 T T S TCCATGCCCACGTTGAGATGTTTCAGATGCTCTGCTGAGCGGGCCTC
ACCTGCTCATCGATCTTCCGCTGCAGCTGGACCACCTTGTTCTCCATGCCCACGTTGAGA[CT]GTTTCAGATGCTCTG
78169 IS [CT] CTGAGCGGGCCTCAATCCTGAGGGCCTTCAGCTCCCGCCTGGCCT
78179 I A GCTTTCCCCATGATGTGTCAATCTCATAGCTAAACAT
78179 P A A CGCGCCGAGGAGAAGGGAAGAGAGACY
78179 P C A ATGACGTGGCAGACCGAGAAGGGAAGAGAGACY
78179 T A A GGCTGTCTCTCTTCCCTTCTCTTGTTTAGCTATGAGATTGACACATCATGGGGAAAGCAT
78179 T C A GGCTGTCTCTCTTCCCTTCTCGTGTTTAGCTATGAGATTGACACATCATGGGGAAAGCAT
CAAAGCACTGGGTACATTCTAAATGCTTTCCCCATGATGTGTCAATCTCATAGCTAAACA[AC]GAGAAGGGAAGAGAG
78179 IS [AC] ACAGCCTCGTTATGTAAGAGAGGAACCTCACGGAGGGCCTCCAGA
78201 I S CCAACTAAAGAGACGGGCTGGGCTTCTTTTTCAT
78201 P C S ATGACGTGGCAGACGAGTTCACGTCTTCCCTY
78201 P G S CGCGCCGAGGCAGTTCACGTCTTCCCTY
78201 T C S CCTCAGGGAAGACGTGAACTCTGAAAAAGAAGCCCAGCCCGTCTCTTTAGTTGGCA
78201 T G S CCTCAGGGAAGACGTGAACTGTGAAAAAGAAGCCCAGCCCGTCTCTTTAGTTGGCA
TCCCCCGTGGAAGGGTGTAGAGACAGCACATGTTCCGCTCACCTCAGGGAAGACGTGAACT[CG]TGAAAAAGAAGCCC
78201 IS [CG] AGCCCGTCTCTTTAGTTGGCATCGGCTCCTCTGTGCTCCAGACATC
78225 I S GGGCTGACCTCTCGCCACCTGGA
78225 P G S ATGACGTGGCAGACCTCCAGCACTGCTAGAY
78225 P A S CGCGCCGAGGTTCCAGCACTGCTAGAGY
78225 T G S ACATCTCTAGCAGTGCTGGAGCCAGGTGGCGAGAGGTCAGCCCCC
78225 T A S ACATCTCTAGCAGTGCTGGAACCAGGTGGCGAGAGGTCAGCCCCC
GGCTCAGTGGGAAAGAACTTGGCTAGCAAGACAAACGTGTACATCTCTAGCAGTGCTGGA[GA]CCAGGTGGCGAGAG
78225 IS [GA] GTCAGCCCCCTCCCCCAATCCCGTCCCCTCCACCCTCATTCCCATT
78261 I S GGCCCTTTGTTAAGGCATTCGCAGGAAATTCACT
78261 P T S CGCGCCGAGGACAGCCAGAAAGGTGGY
78261 P C S ATGACGTGGCAGACGCAGCCAGAAAGGTGY
78261 T T S CCACCCACCTTTCTGGCTGTGTGAATTTCCTGCGAATGCCTTAACAAAGGGCCAC
78261 T C S CCACCCACCTTTCTGGCTGCGTGAATTTCCTGCGAATGCCTTAACAAAGGGCCAC
AAACTCTTCCTTGAGTATTTGCCCCACGCTGTCTCATTTTACCACCCACCTTTCTGGCTG[TC]GTGAATTTCCTGCGAA
78261 IS [TC] TGCCTTAACAAAGGGCCACGTGCTTAGTGGCTTTACTCCATCAG
78299 I S CTAGGTAGGAGTAAGAACATACCAGGAAGATGGCACCTT
78299 P C S ATGACGTGGCAGACGGAATAGAAATCCAAAAAGGATGY
78299 P T S CGCGCCGAGGAGAATAGAAATCCAAAAAGGATGY
78299 T C S CTAGCATCCTTTTTGGATTTCTATTCCAGGTGCCATCTTCCTGGTATGTTCTTACTCCTACCTAGAT
78299 T T S CTAGCATCCTTTTTGGATTTCTATTCTAGGTGCCATCTTCCTGGTATGTTCTTACTCCTACCTAGAT
AAGAAAAATATGTGTTTGAAGAATTAATATACACCTAGCATCCTTTTTGGATTTCTATTC[CT]AGGTGCCATCTTCCTGG
78299 IS [CT] TATGTTCTTACTCCTACCTAGATATTTTTATTTTCTCCCTTCT
78306 I A CACTAACATCTGGAGCGACTGCACTGTTTGCAT
78306 P A A CGCGCCGAGGATTTCATTGATTGACTACATGTCY
78306 P G A ATGACGTGGCAGACGTTTCATTGATTGACTACATGTCY
78306 T A A TGTAGACATGTAGTCAATCAATGAAATTGCAAACAGTGCAGTCGCTCCAGATGTTAGTGAA
78306 T G A TGTAGACATGTAGTCAATCAATGAAACTGCAAACAGTGCAGTCGCTCCAGATGTTAGTGAA
CAAGAGTACAGACTATAATTCTCCAGTTCACTAACATCTGGAGCGACTGCACTGTTTGCA[AG]TTTCATTGATTGACTA
78306 IS [AG] CATGTCTACAGTTCCTTTATTGCAAGTCACTTTTCTGTATAATC
78307 I S CTTTTGGTTTATATGCAGTCAGCCTCTTATTTTCAAAAGTAAAAATCTT
78307 P T S CGCGCCGAGGAAAATTCTTGGAACCTGGCY
78307 P C S ATGACGTGGCAGACGAAATTCTTGGAACCTGGCY
78307 T T S TGATGCCAGGTTCCAAGAATTTTAGATTTTTACTTTTGAAAATAAGAGGCTGACTGCATATAAACCAAAAGAA
78307 T C S TGATGCCAGGTTCCAAGAATTTCAGATTTTTACTTTTGAAAATAAGAGGCTGACTGCATATAAACCAAAAGAA
AGAGTCATCAAGGTGACCAAGAGGTTAGAAACAGCTGATGATGCCAGGTTCCAAGAATTTT[TC]AGATTTTTACTTTTGA
78307 IS [TC] AAATAAGAGGCTGACTGCATATAAACCAAAAGAATACTTTCAGA

FIGURE 129D



PXF

FIGURE 129D

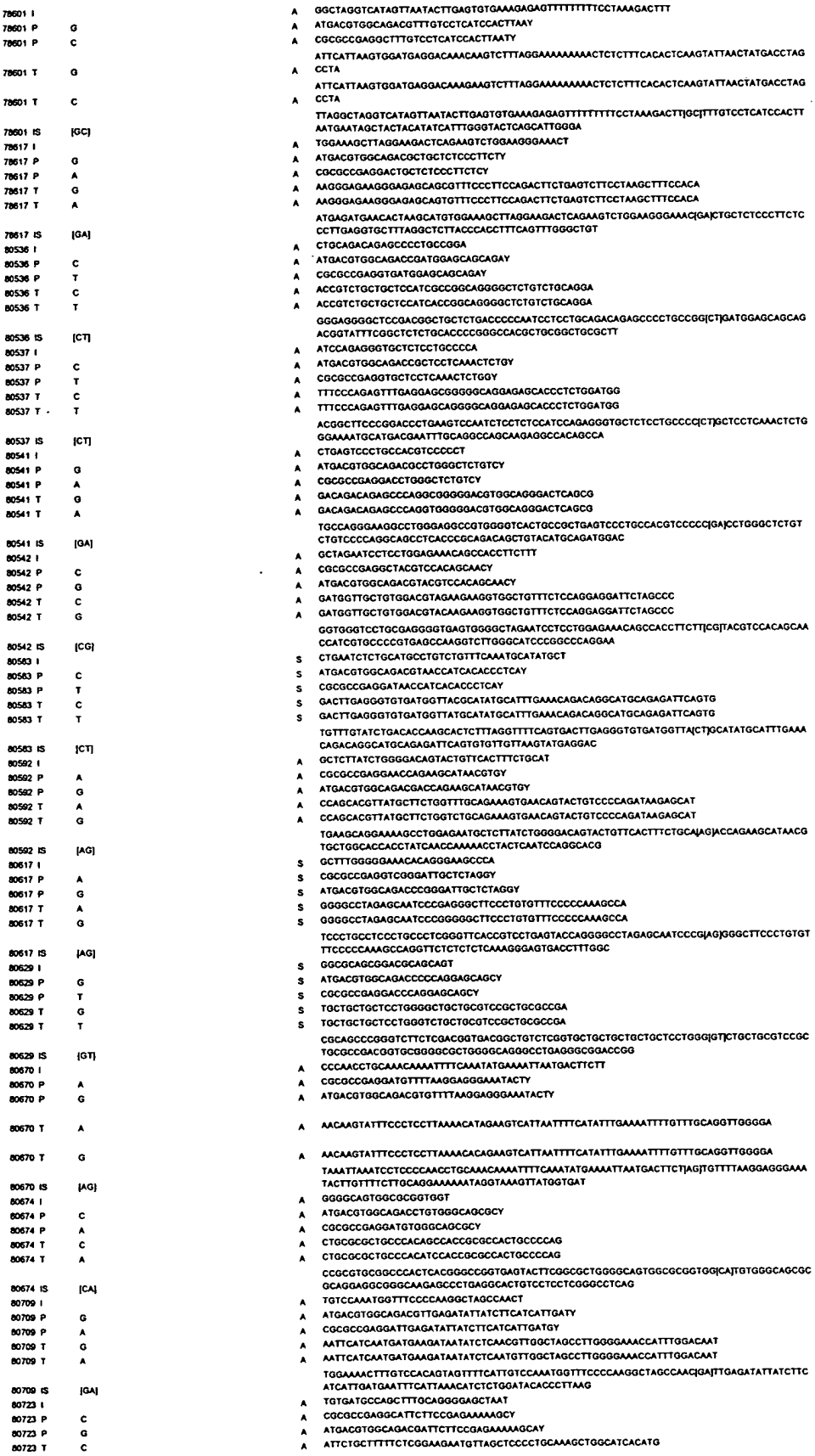

78601 I A GGCTAGGTCATAGTTAATACTTGAGTGTGAAAGAGAGTTTTTTTTTCCTAAAGACTTT
78601 P G A ATGACGTGGCAGACGTTTGTCCTCATCCACTTAAY
78601 P C A CGCGCCGAGGCTTTGTCCTCATCCACTTAATY
ATTCATTAAGTGGATGAGGACAAACAAGTCTTTAGGAAAAAAAAACTCTCTTTCACACTCAAGTATTAACTATGACCTAG
78601 T G A CCTA
ATTCATTAAGTGGATGAGGACAAAGAAGTCTTTAGGAAAAAAAAACTCTCTTTCACACTCAAGTATTAACTATGACCTAG
78601 T C A CCTA
TTAGGCTAGGTCATAGTTAATACTTGAGTGTGAAAGAGAGTTTTTTTTTCCTAAAGACTT[GC]TTTGTCCTCATCCACTT
78601 IS [GC] AATGAATAGCTACTACATATCATTTGGGTACTCAGCATTGGGA
78617 I A TGGAAAGCTTAGGAAGACTCAGAAGTCTGGAAGGGAAACT
78617 P G A ATGACGTGGCAGACGCTGCTCTCCCTTCTY
78617 P A A CGCGCCGAGGACTGCTCTCCCTTCTCY
78617 T G A AAGGGAGAAGGGAGAGCAGCGTTTCCCTTCCAGACTTCTGAGTCTTCCTAAGCTTTCCACA
78617 T A A AAGGGAGAAGGGAGAGCAGTGTTTCCCTTCCAGACTTCTGAGTCTTCCTAAGCTTTCCACA
ATGAGATGAACACTAAGCATGTGGAAAGCTTAGGAAGACTCAGAAGTCTGGAAGGGAAAC[GA]CTGCTCTCCCTTCTC
78617 IS [GA] CCTTGAGGTGCTTTAGGCTCTTACCCACGCTTTCAGTTTGGGCTGT
80536 I A CTGCAGACAGAGCCCCTGCCGGA
80536 P C A ATGACGTGGCAGACCGATGGAGCAGCAGAY
80536 P T A CGCGCCGAGGTGATGGAGCAGCAGAY
80536 T C A ACCGTCTGCTGCTCCATCGCCGGCAGGGGCTCTGTCTGCAGGA
80536 T T A ACCGTCTGCTGCTCCATCACCGGCAGGGGCTCTGTCTGCAGGA
GGGAGGGGCTCCGACGGCTGCTCTGACCCCCAATCCTCCTGCAGACAGAGCCCCTGCCGG[CT]GATGGAGCAGCAG
80536 IS [CT] ACGGTATTTCGGCTCTCTGCACCCCGGGCCACGCTGCGGCTGCGCTT
80537 I A ATCCAGAGGGTGCTCTCCTGCCCCA
80537 P C A ATGACGTGGCAGACCGCTCCTCAAACTCTGY
80537 P T A CGCGCCGAGGTGCTCCTCAAACTCTGGY
80537 T C A TTTCCCAGAGTTTGAGGAGCGGGGGCAGGAGAGCACCCTCTGGATGG
80537 T T A TTTCCCAGAGTTTGAGGAGCAGGGGCAGGAGAGCACCCTCTGGATGG
ACGGCTTCCCGGACCCTGAAGTCCAATCTCCTCTCCATCCAGAGGGTGCTCTCCTGCCCC[CT]GCTCCTCAAACTCTG
80537 IS [CT] GGAAAATGCATGACGAATTTGCAGGCCAGCAAGAGGCCACAGCCA
80541 I A CTGAGTCCCTGCCACGTCCCCCT
80541 P G A ATGACGTGGCAGACGCCTGGGCTCTGTCY
80541 P A A CGCGCCGAGGACCTGGGCTCTGTCY
80541 T G A GACAGACAGAGCCCAGGCGGGGGACGTGGCAGGGACTCAGCG
80541 T A A GACAGACAGAGCCCAGGTGGGGGACGTGGCAGGGACTCAGCG
TGCCAGGGAAGGCCTGGGAGGCCGTGGGGTCACTGCCGCTGAGTCCCTGCCACGTCCCCC[GA]CCTGGGCTCTGT
80541 IS [GA] CTGTCCCCAGGCAGCCTCACCCGCAGACAGCTGTACATGCAGATGGAC
80542 I A GCTAGAATCCTCCTGGAGAAACAGCCACCTTCTTT
80542 P C A CGCGCCGAGGCTACGTCCACAGCAACY
80542 P G A ATGACGTGGCAGACGTACGTCCACAGCAACY
80542 T C A GATGGTTGCTGTGGACGTAGAAGAAGGTGGCTGTTTCTCCAGGAGGATTCTAGCCC
80542 T G A GATGGTTGCTGTGGACGTACAAGAAGGTGGCTGTTTCTCCAGGAGGATTCTAGCCC
GGTGGGTCCTGCGAGGGGTGAGTGGGGCTAGAATCCTCCTGGAGAAACAGCCACCTTCTT[CG]TACGTCCACAGCAA
80542 IS [CG] CCATCGTGCCCCGTGAGCCAAGGTCTTGGGCATCCCGGCCCAGGAA
80583 I S CTGAATCTCTGCATGCCTGTCTGTTTCAAATGCATATGCT
80583 P C S ATGACGTGGCAGACGTAACCATCACACCCTCAY
80583 P T S CGCGCCGAGGATAACCATCACACCCTCAY
80583 T C S GACTTGAGGGTGTGATGGTTACGCATATGCATTTGAAACAGACAGGCATGCAGAGATTCAGTG
80583 T T S GACTTGAGGGTGTGATGGTTATGCATATGCATTTGAAACAGACAGGCATGCAGAGATTCAGTG
TGTTTGTATCTGACACCAAGCACTCTTTAGGTTTTCAGTGACTTGAGGGTGTGATGGTTA[CT]GCATATGCATTTGAAA
80583 IS [CT] CAGACAGGCATGCAGAGATTCAGTGTGTTGTTAAGTATGAGGAC
80592 I A GCTCTTATCTGGGGACAGTACTGTTCACTTTCTGCAT
80592 P A A CGCGCCGAGGAACCAGAAGCATAACGTGY
80592 P G A ATGACGTGGCAGACGACCAGAAGCATAACGTGY
80592 T A A CCAGCACGTTATGCTTCTGGTTTGCAGAAAGTGAACAGTACTGTCCCCAGATAAGAGCAT
80592 T G A CCAGCACGTTATGCTTCTGGTCTGCAGAAAGTGAACAGTACTGTCCCCAGATAAGAGCAT
TGAAGCAGGAAAAGCCTGGAGAATGCTCTTATCTGGGGACAGTACTGTTCACTTTCTGCA[AG]ACCAGAAGCATAACG
80592 IS [AG] TGCTGGCACCACCTATCAACCAAAAACCTACTCAATCCAGGCACG
80617 I S GCTTTGGGGGAAACACAGGGAAGCCCA
80617 P A S CGCGCCGAGGTCGGGATTGCTCTAGGY
80617 P G S ATGACGTGGCAGACCCGGGATTGCTCTAGGY
80617 T A S GGGGCCTAGAGCAATCCCGAGGGCTTCCCTGTGTTTCCCCCAAAGCCA
80617 T G S GGGGCCTAGAGCAATCCCGGGGGCTTCCCTGTGTTTCCCCCAAAGCCA
TCCCTGCCTCCCTGCCCTCGGGTTCACCGTCCTGAGTACCAGGGGCCTAGAGCAATCCCG[AG]GGGCTTCCCTGTGT
80617 IS [AG] TTCCCCCAAAGCCAGGTTCTCTCTCTCAAAGGGAGTGACCTTTGGC
80629 I S GGCGCAGCGGACGCAGCAGT
80629 P G S ATGACGTGGCAGACCCCCAGGAGCAGCY
80629 P T S CGCGCCGAGGACCCAGGAGCAGCY
80629 T G S TGCTGCTGCTCCTGGGGCTGCTGCGTCCGCTGCGCCGA
80629 T T S TGCTGCTGCTCCTGGGTCTGCTGCGTCCGCTGCGCCGA
CGCAGCCCGGGTCTTCTCGACGGTGACGGCTGTCTCGGTGCTGCTGCTGCTGCTCCTGGG[GT]CTGCTGCGTCCGC
80629 IS [GT] TGCGCCGACGGTGCGGGGGCGCTGGGGCAGGGCCTGAGGGCGGACCGG
80670 I A CCCAACCTGCAAACAAAATTTTCAAATATGAAAATTAATGACTTCTT
80670 P A A CGCGCCGAGGATGTTTTAAGGAGGGAAATACTY
80670 P G A ATGACGTGGCAGACGTGTTTTAAGGAGGGAAATACTY
80670 T A A AACAAGTATTTCCCTCCTTAAAACATAGAAGTCATTAATTTTCATATTTGAAAATTTTGTTTGCAGGTTGGGGA
80670 T G A AACAAGTATTTCCCTCCTTAAAACACAGAAGTCATTAATTTTCATATTTGAAAATTTTGTTTGCAGGTTGGGGA
TAAATTAAATCCTCCCCAACCTGCAAACAAAATTTTCAAATATGAAAATTAATGACTTCT[AG]TGTTTTAAGGAGGGAAA
80670 IS [AG] TACTTGTTTTCTTGCAGGAAAAAATAGGTAAAGTTATGGTGAT
80674 I A GGGGCAGTGGCGCGGTGGT
80674 P C A ATGACGTGGCAGACCTGTGGGCAGCGCY
80674 P A A CGCGCCGAGGATGTGGGCAGCGCY
80674 T C A CTGCGCGCTGCCCACAGCCACCGCGCCACTGCCCCAG
80674 T A A CTGCGCGCTGCCCACATCCACCGCGCCACTGCCCCAG
CCGCGTGCGGCCCACTCACGGGCCGGTGAGTACTTCGGCGCTGGGGCAGTGGCGCGGTGG[CA]TGTGGGCAGCGC
80674 IS [CA] GCAGGAGGCGGGCAAGAGCCCTGAGGCACTGTCCTCCTCGGGCCTCAG
80709 I A TGTCCAAATGGTTTCCCCAAGGCTAGCCAACT
80709 P G A ATGACGTGGCAGACGTTGAGATATTATCTTCATCATTGATY
80709 P A A CGCGCCGAGGATTGAGATATTATCTTCATCATTGATGY
80709 T G A AATTCATCAATGATGAAGATAATATCTCAACGTTGGCTAGCCTTGGGGAAACCATTTGGACAAT
80709 T A A AATTCATCAATGATGAAGATAATATCTCAATGTTGGCTAGCCTTGGGGAAACCATTTGGACAAT
TGGAAAACTTTGTCCACAGTAGTTTTCATTGTCCAAATGGTTTCCCCAAGGCTAGCCAAC[GA]TTGAGATATTATCTTC
80709 IS [GA] ATCATTGATGAATTTCATTAAACATCTCTGGATACACCCTTAAG
80723 I A TGTGATGCCAGCTTTGCAGGGGAGCTAAT
80723 P C A CGCGCCGAGGCATTCTTCCGAGAAAAAGCY
80723 P G A ATGACGTGGCAGACGATTCTTCCGAGAAAAAGCAY
80723 T C A ATTCTGCTTTTTCTCGGAAGAATGTTAGCTCCCCTGCAAAGCTGGCATCACATG

FIGURE 129D

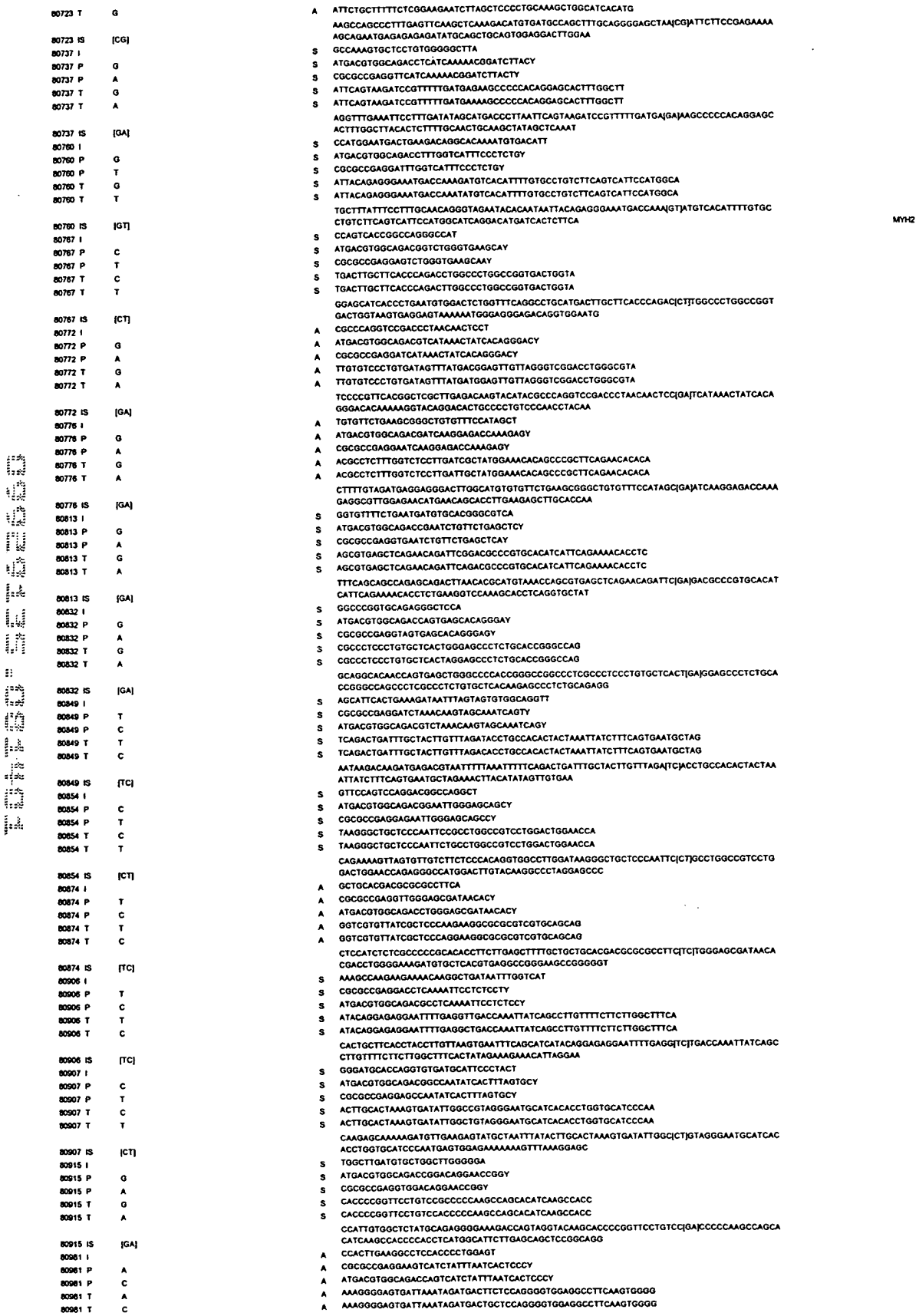


FIGURE 129D

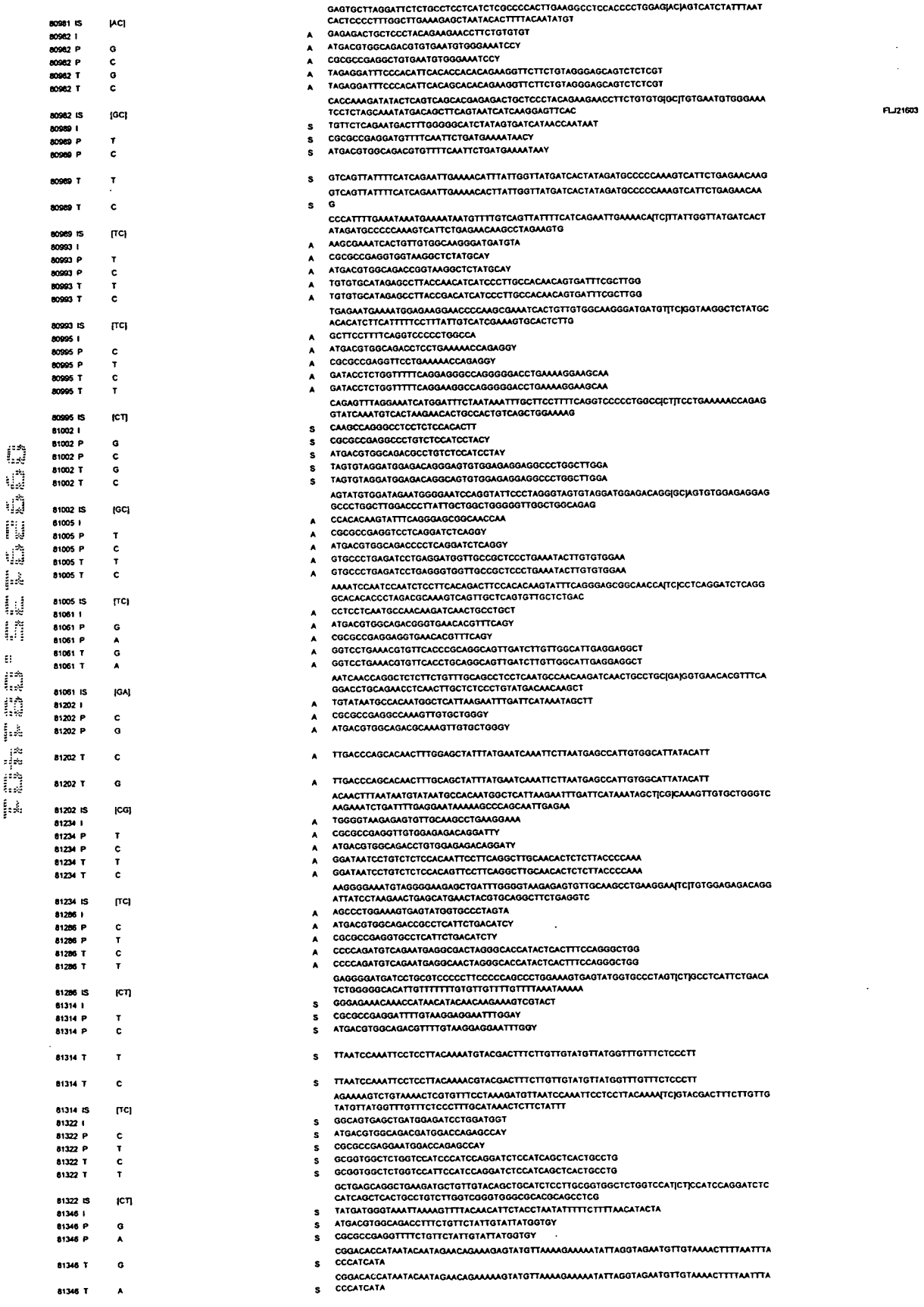


FIGURE 129D

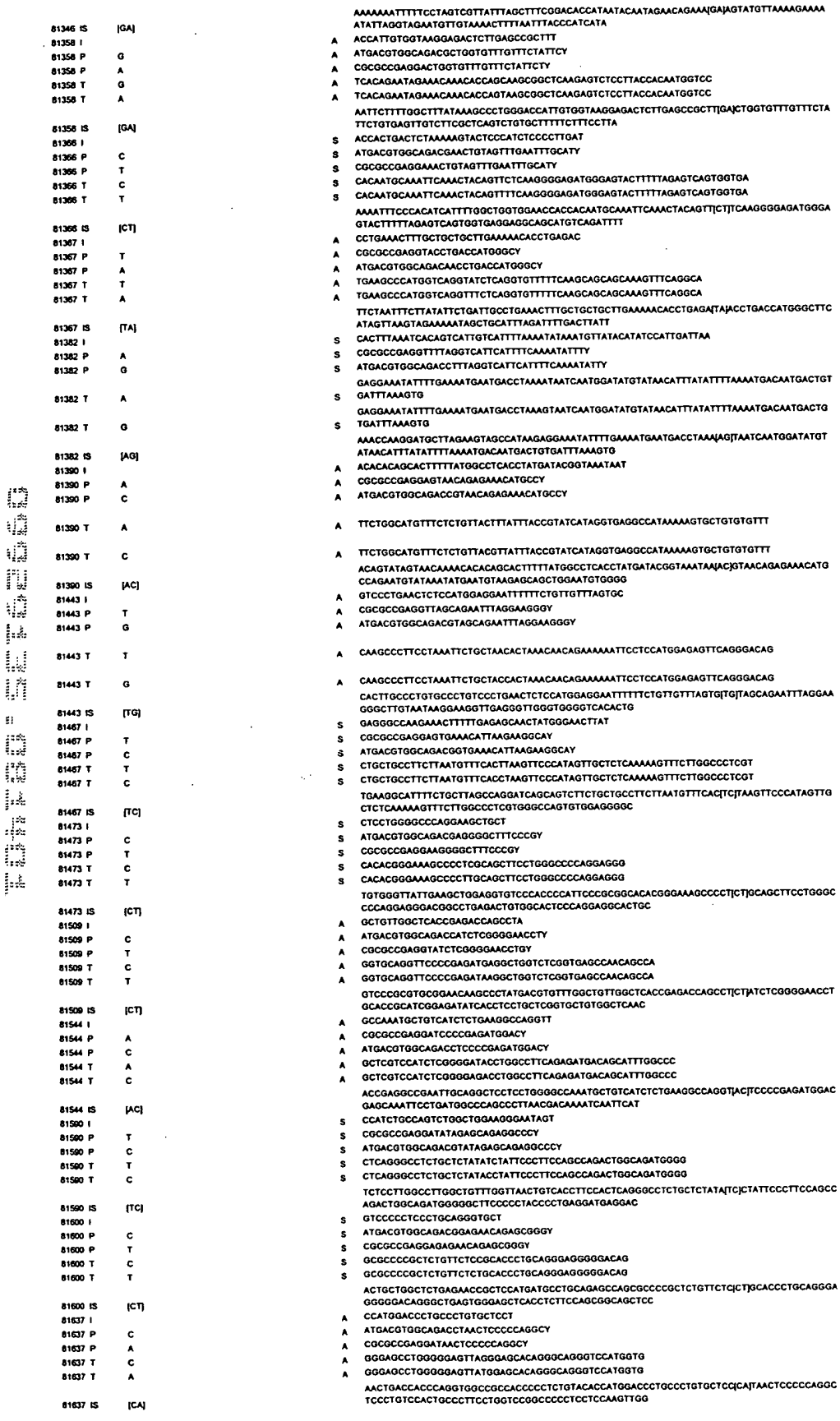
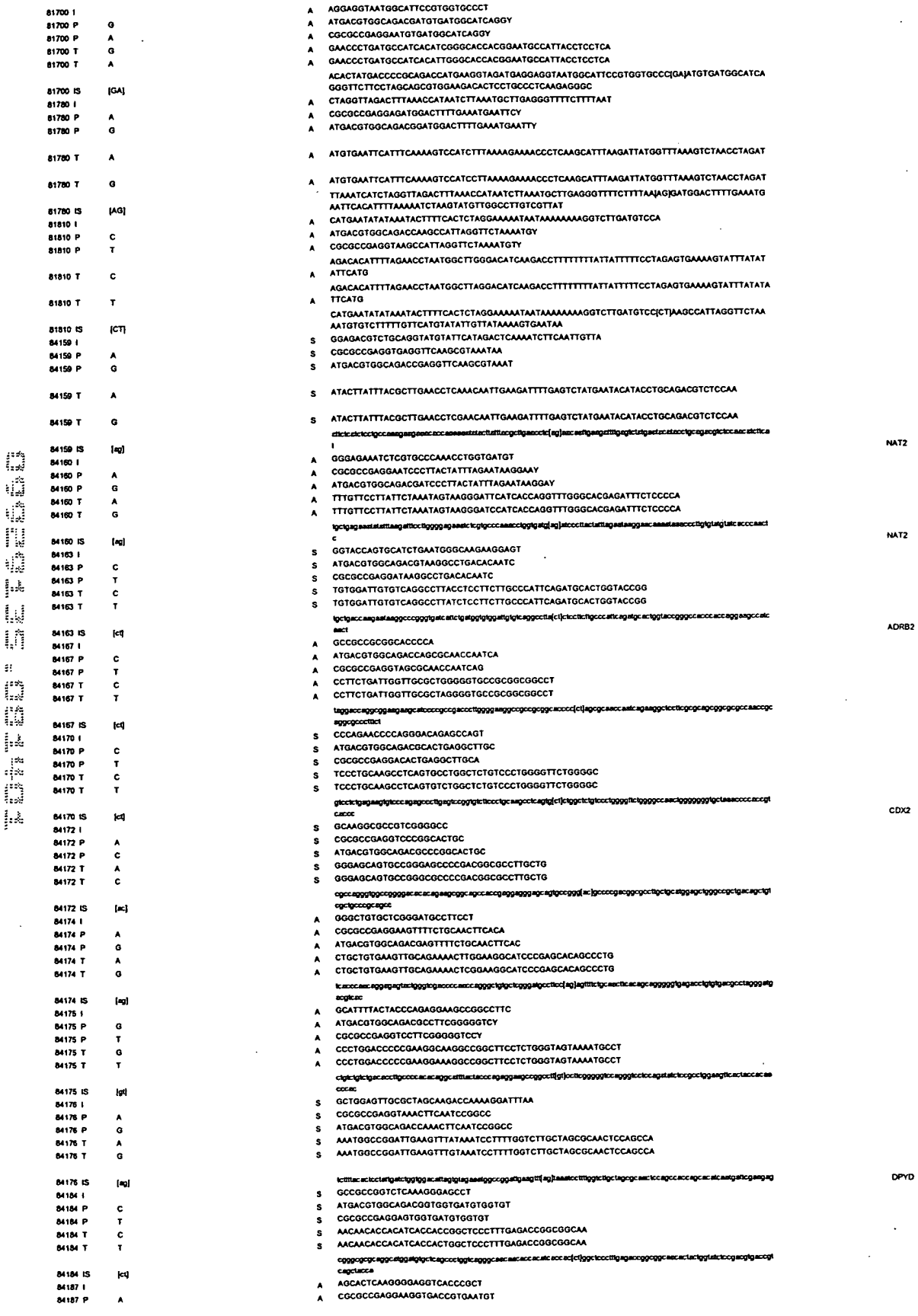


FIGURE 129D


81700 I A AGGAGGTAATGGCATTCCGTGGTGCCCT
81700 P G A ATGACGTGGCAGACGATGTGATGGCATCAGGY
81700 P A A CGCGCCGAGGAATGTGATGGCATCAGGY
81700 T G A GAACCCTGATGCCATCACATCGGGCACCACGGAATGCCATTACCTCCTCA
81700 T A A GAACCCTGATGCCATCACATTGGGCACCACGGAATGCCATTACCTCCTCA
81700 IS [GA] ACACTATGACCCCGCAGACCATGAAGGTAGATGAGGAGGTAATGGCATTCCGTGGTGCCC[GA]ATGTGATGGCATCA GGGTTCTTCCTAGCAGCGTGGAAGACACTCCTGCCCTCAAGAGGGC
81780 I A CTAGGTTAGACTTTAAACCATAATCTTAAATGCTTGAGGGTTTTCTTTTAAT
81780 P A A CGCGCCGAGGAGATGGACTTTTGAAATGAATTCY
81780 P G A ATGACGTGGCAGACGGATGGACTTTTGAAATGAATTY
81780 T A A ATGTGAATTCATTTCAAAAGTCCATCTTTAAAAGAAAACCCTCAAGCATTTAAGATTATGGTTTAAAGTCTAACCTAGAT
81780 T G A ATGTGAATTCATTTCAAAAGTCCATCCTTAAAAGAAAACCCTCAAGCATTTAAGATTATGGTTTAAAGTCTAACCTAGAT
81780 IS [AG] TTAAATCATCTAGGTTAGACTTTAAACCATAATCTTAAATGCTTGAGGGTTTTCTTTTAA[AG]GATGGACTTTTGAAATG AATTCACATTTTAAAAATCTAAGTATGTTGGCCTTGTCGTTAT
81810 I A CATGAATATATAAATACTTTTCACTCTAGGAAAAATAATAAAAAAAAGGTCTTGATGTCC
81810 P C A ATGACGTGGCAGACCAAGCCATTAGGTTCTAAAATGY
81810 P T A CGCGCCGAGGTAAGCCATTAGGTTCTAAAATGTY
81810 T C A AGACACATTTTAGAACCTAATGGCTTGGGACATCAAGACCTTTTTTTTATTATTTTTCCTAGAGTGAAAAGTATTTATAT ATTCATG
81810 T T A AGACACATTTTAGAACCTAATGGCTTAGGACATCAAGACCTTTTTTTTATTATTTTTCCTAGAGTGAAAAGTATTTATATA TTCATG
81810 IS [CT] CATGAATATATAAATACTTTTCACTCTAGGAAAAATAATAAAAAAAAGGTCTTGATGTCC[CT]AAGCCATTAGGTTCTAA AATGTGTCTTTTTGTTCATGTATATTGTTATAAAAGTGAATAA
84159 I S GGAGACGTCTGCAGGTATGTATTCATAGACTCAAAATCTTCAATTGTTA
84159 P A S CGCGCCGAGGTGAGGTTCAAGCGTAAATAA
84159 P G S ATGACGTGGCAGACCGAGGTTCAAGCGTAAAT
84159 T A S ATACTTATTTACGCTTGAACCTCAAACAATTGAAGATTTTGAGTCTATGAATACATACCTGCAGACGTCTCCAA
84159 T G S ATACTTATTTACGCTTGAACCTCGAACAATTGAAGATTTTGAGTCTATGAATACATACCTGCAGACGTCTCCAA
84159 IS [ag] NAT2
84160 I A GGGAGAAATCTCGTGCCCAAACCTGGTGATGT
84160 P A A CGCGCCGAGGAATCCCTTACTATTTAGAATAAGGAAY
84160 P G A ATGACGTGGCAGACGATCCCTTACTATTTAGAATAAGGAY
84160 T A A TTTGTTCCTTATTCTAAATAGTAAGGGATTCATCACCAGGTTTGGGCACGAGATTTCTCCCCA
84160 T G A TTTGTTCCTTATTCTAAATAGTAAGGGATCCATCACCAGGTTTGGGCACGAGATTTCTCCCCA
84160 IS [ag] NAT2
84163 I S GGTACCAGTGCATCTGAATGGGCAAGAAGGAGT
84163 P C S ATGACGTGGCAGACGTAAGGCCTGACACAATC
84163 P T S CGCGCCGAGGATAAGGCCTGACACAATC
84163 T C S TGTGGATTGTGTCAGGCCTTACCTCCTTCTTGCCCATTCAGATGCACTGGTACCGG
84163 T T S TGTGGATTGTGTCAGGCCTTATCTCCTTCTTGCCCATTCAGATGCACTGGTACCGG
84163 IS [ct] ADRB2
84167 I A GCCGCCGCGGCACCCCA
84167 P C A ATGACGTGGCAGACCAGCGCAACCAATCA
84167 P T A CGCGCCGAGGTAGCGCAACCAATCAG
84167 T C A CCTTCTGATTGGTTGCGCTGGGGGTGCCGCGGCGGCCT
84167 T T A CCTTCTGATTGGTTGCGCTAGGGGTGCCGCGGCGGCCT
84167 IS [ct]
84170 I S CCCAGAACCCCAGGGACAGAGCCAGT
84170 P C S ATGACGTGGCAGACGCACTGAGGCTTGC
84170 P T S CGCGCCGAGGACACTGAGGCTTGCA
84170 T C S TCCCTGCAAGCCTCAGTGCCTGGCTCTGTCCCTGGGGTTCTGGGGC
84170 T T S TCCCTGCAAGCCTCAGTGTCTGGCTCTGTCCCTGGGGTTCTGGGGC
84170 IS [ct] CDX2
84172 I S GCAAGGCGCCGTCGGGGCC
84172 P A S CGCGCCGAGGTCCCGGCACTGC
84172 P C S ATGACGTGGCAGACGCCCGGCACTGC
84172 T A S GGGAGCAGTGCCGGGCGCCCCGACGGCGCCTTGCTG
84172 T C S GGGAGCAGTGCCGGGCGCCCCGACGGCGCCTTGCTG
84172 IS [ac]
84174 I A GGGCTGTGCTCGGGATGCCTTCCT
84174 P A A CGCGCCGAGGAAGTTTTCTGCAACTTCACA
84174 P G A ATGACGTGGCAGACGAGTTTTCTGCAACTTCAC
84174 T A A CTGCTGTGAAGTTGCAGAAAACTTGGAAGGCATCCCGAGCACAGCCCTG
84174 T G A CTGCTGTGAAGTTGCAGAAAACTCGGAAGGCATCCCGAGCACAGCCCTG
84174 IS [ag]
84175 I A GCATTTTACTACCCAGAGGAAGCCGGCCTTC
84175 P G A ATGACGTGGCAGACGCCTTCGGGGGTCY
84175 P T A CGCGCCGAGGTCCTTCGGGGGTCCY
84175 T G A CCCTGGACCCCCGAAGGCAAGGCCGGCTTCCTCTGGGTAGTAAAATGCCT
84175 T T A CCCTGGACCCCCGAAGGAAAGGCCGGCTTCCTCTGGGTAGTAAAATGCCT
84175 IS [gt]
84176 I S GCTGGAGTTGCGCTAGCAAGACCAAAAGGATTTAA
84176 P A S CGCGCCGAGGTAAACTTCAATCCGGCC
84176 P G S ATGACGTGGCAGACCAAACTTCAATCCGGCC
84176 T A S AAATGGCCGGATTGAAGTTTATAAATCCTTTTGGTCTTGCTAGCGCAACTCCAGCCA
84176 T G S AAATGGCCGGATTGAAGTTTGTAAATCCTTTTGGTCTTGCTAGCGCAACTCCAGCCA
84176 IS [ag] DPYD
84184 I S GCCGCCGGTCTCAAAGGGAGCCT
84184 P C S ATGACGTGGCAGACGGTGGTGATGTGGTGT
84184 P T S CGCGCCGAGGAGTGGTGATGTGGTGT
84184 T C S AACAACACCACATCACCACCGGCTCCCTTTGAGACCGGCGGCAA
84184 T T S AACAACACCACATCACCACTGGCTCCCTTTGAGACCGGCGGCAA
84184 IS [ct]
84187 I A AGCACTCAAGGGGAGGTCACCCGCT
84187 P A A CGCGCCGAGGAAGGTGACCGTGAATGT

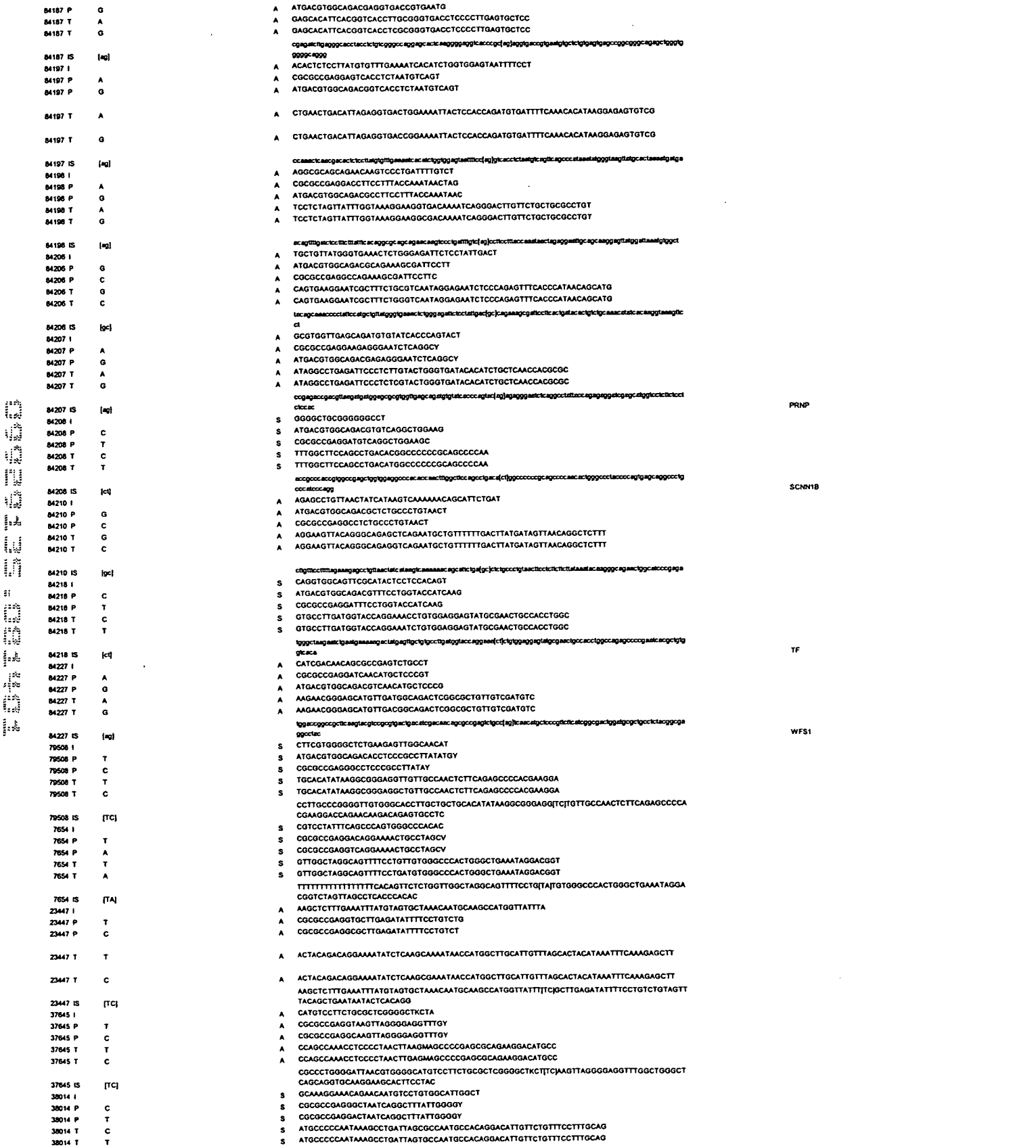

84187 P G A ATGACGTGGCAGACGAGGTGACCGTGAATG
84187 T A A GAGCACATTCACGGTCACCTTGCGGGTGACCTCCCCTTGAGTGCTCC
84187 T G A GAGCACATTCACGGTCACCTCGCGGGTGACCTCCCCTTGAGTGCTCC
84187 IS [ag]
84187 I A ACACTCTCCTTATGTGTTTGAAAATCACATCTGGTGGAGTAATTTTCCT
84197 P A A CGCGCCGAGGAGTCACCTCTAATGTCAGT
84197 P G A ATGACGTGGCAGACGGTCACCTCTAATGTCAGT
84197 T A A CTGAACTGACATTAGAGGTGACTGGAAAATTACTCCACCAGATGTGATTTTCAAACACATAAGGAGAGTGTCG
84197 T G A CTGAACTGACATTAGAGGTGACCGGAAAATTACTCCACCAGATGTGATTTTCAAACACATAAGGAGAGTGTCG
84197 IS [ag]
84198 I A AGGCGCAGCAGAACAAGTCCCTGATTTTGTCT
84198 P A A CGCGCCGAGGACCTTCCTTTACCAAATAACTAG
84198 P G A ATGACGTGGCAGACGCCTTCCTTTACCAAATAAC
84198 T A A TCCTCTAGTTATTTGGTAAAGGAAGGTGACAAAATCAGGGACTTGTTCTGCTGCGCCTGT
84198 T G A TCCTCTAGTTATTTGGTAAAGGAAGGCGACAAAATCAGGGACTTGTTCTGCTGCGCCTGT
84198 IS [ag]
84206 I A TGCTGTTATGGGTGAAACTCTGGGAGATTCTCCTATTGACT
84206 P G A ATGACGTGGCAGACGCAGAAAGCGATTCCTT
84206 P C A CGCGCCGAGGCCAGAAAGCGATTCCTTC
84206 T G A CAGTGAAGGAATCGCTTTCTGCGTCAATAGGAGAATCTCCCAGAGTTTCACCCATAACAGCATG
84206 T C A CAGTGAAGGAATCGCTTTCTGGGTCAATAGGAGAATCTCCCAGAGTTTCACCCATAACAGCATG
84206 IS [gc]
84207 I A GCGTGGTTGAGCAGATGTGTATCACCCAGTACT
84207 P A A CGCGCCGAGGAAGAGGGAATCTCAGGCY
84207 P G A ATGACGTGGCAGACGAGAGGGAATCTCAGGCY
84207 T A A ATAGGCCTGAGATTCCCTCTTGTACTGGGTGATACACATCTGCTCAACCACGCGC
84207 T G A ATAGGCCTGAGATTCCCTCTCGTACTGGGTGATACACATCTGCTCAACCACGCGC
84207 IS [ag]
84208 I S GGGGCTGCGGGGGGCCT
84208 P C S ATGACGTGGCAGACGTGTCAGGCTGGAAG
84208 P T S CGCGCCGAGGATGTCAGGCTGGAAGC
84208 T C S TTTGGCTTCCAGCCTGACACGGCCCCCCGCAGCCCCAA
84208 T T S TTTGGCTTCCAGCCTGACATGGCCCCCCGCAGCCCCAA
84208 IS [ct]
84210 I A AGAGCCTGTTAACTATCATAAGTCAAAAAACAGCATTCTGAT
84210 P G A ATGACGTGGCAGACGCTCTGCCCTGTAACT
84210 P C A CGCGCCGAGGCCTCTGCCCTGTAACT
84210 T G A AGGAAGTTACAGGGCAGAGCTCAGAATGCTGTTTTTTGACTTATGATAGTTAACAGGCTCTTT
84210 T C A AGGAAGTTACAGGGCAGAGGTCAGAATGCTGTTTTTTGACTTATGATAGTTAACAGGCTCTTT
84210 IS [gc]
84218 I S CAGGTGGCAGTTCGCATACTCCTCCACAGT
84218 P C S ATGACGTGGCAGACGTTTCCTGGTACCATCAAG
84218 P T S CGCGCCGAGGATTTCCTGGTACCATCAAG
84218 T C S GTGCCTTGATGGTACCAGGAAACCTGTGGAGGAGTATGCGAACTGCCACCTGGC
84218 T T S GTGCCTTGATGGTACCAGGAAATCTGTGGAGGAGTATGCGAACTGCCACCTGGC
84218 IS [ct]
84227 I A CATCGACAACAGCGCCGAGTCTGCCT
84227 P A A CGCGCCGAGGATCAACATGCTCCCGT
84227 P G A ATGACGTGGCAGACGTCAACATGCTCCCG
84227 T A A AAGAACGGGAGCATGTTGATGGCAGACTCGGCGCTGTTGTCGATGTC
84227 T G A AAGAACGGGAGCATGTTGACGGCAGACTCGGCGCTGTTGTCGATGTC
84227 IS [ag]
79508 I S CTTCGTGGGGCTCTGAAGAGTTGGCAACAT
79508 P T S ATGACGTGGCAGACACCTCCCGCCTTATATGY
79508 P C S CGCGCCGAGGGCCTCCCGCCTTATAY
79508 T T S TGCACATATAAGGCGGGAGGTTGTTGCCAACTCTTCAGAGCCCCACGAAGGA
79508 T C S TGCACATATAAGGCGGGAGGCTGTTGCCAACTCTTCAGAGCCCCACGAAGGA
79508 IS [TC]
7654 I S CGTCCTATTTCAGCCCAGTGGGCCCACAC
7654 P T S CGCGCCGAGGACAGGAAAACTGCCTAGCV
7654 P A S CGCGCCGAGGTCAGGAAAACTGCCTAGCV
7654 T T S GTTGGCTAGGCAGTTTTCCTGTTGTGGGCCCACTGGGCTGAAATAGGACGGT
7654 T A S GTTGGCTAGGCAGTTTTCCTGATGTGGGCCCACTGGGCTGAAATAGGACGGT
7654 IS [TA]
23447 I A AAGCTCTTTGAAATTTATGTAGTGCTAAACAATGCAAGCCATGGTTATTTA
23447 P T A CGCGCCGAGGTGCTTGAGATATTTTCCTGTCTG
23447 P C A CGCGCCGAGGCGCTTGAGATATTTTCCTGTCT
23447 T T A ACTACAGACAGGAAAATATCTCAAGCAAAATAACCATGGCTTGCATTGTTTAGCACTACATAAATTTCAAAGAGCTT
23447 T C A ACTACAGACAGGAAAATATCTCAAGCGAAATAACCATGGCTTGCATTGTTTAGCACTACATAAATTTCAAAGAGCTT
23447 IS [TC]
37645 I A CATGTCCTTCTGCGCTCGGGGCTKCTA
37645 P T A CGCGCCGAGGTAAGTTAGGGGAGGTTTGY
37645 P C A CGCGCCGAGGCAAGTTAGGGGAGGTTTGY
37645 T T A CCAGCCAAACCTCCCCTAACTTAAGMAGCCCCGAGCGCAGAAGGACATGCC
37645 T C A CCAGCCAAACCTCCCCTAACTTGAGMAGCCCCGAGCGCAGAAGGACATGCC
37645 IS [TC]
38014 I S GCAAAGGAAACAGAACAATGTCCTGTGGCATTGGCT
38014 P C S CGCGCCGAGGGCTAATCAGGCTTTATTGGGGY
38014 P T S CGCGCCGAGGACTAATCAGGCTTTATTGGGGY
38014 T C S ATGCCCCCAATAAAGCCTGATTAGCGCCAATGCCACAGGACATTGTTCTGTTTCCTTTGCAG
38014 T T S ATGCCCCCAATAAAGCCTGATTAGTGCCAATGCCACAGGACATTGTTCTGTTTCCTTTGCAG
PRNP
SCNN1B
TF
WFS1

FIGURE 129D

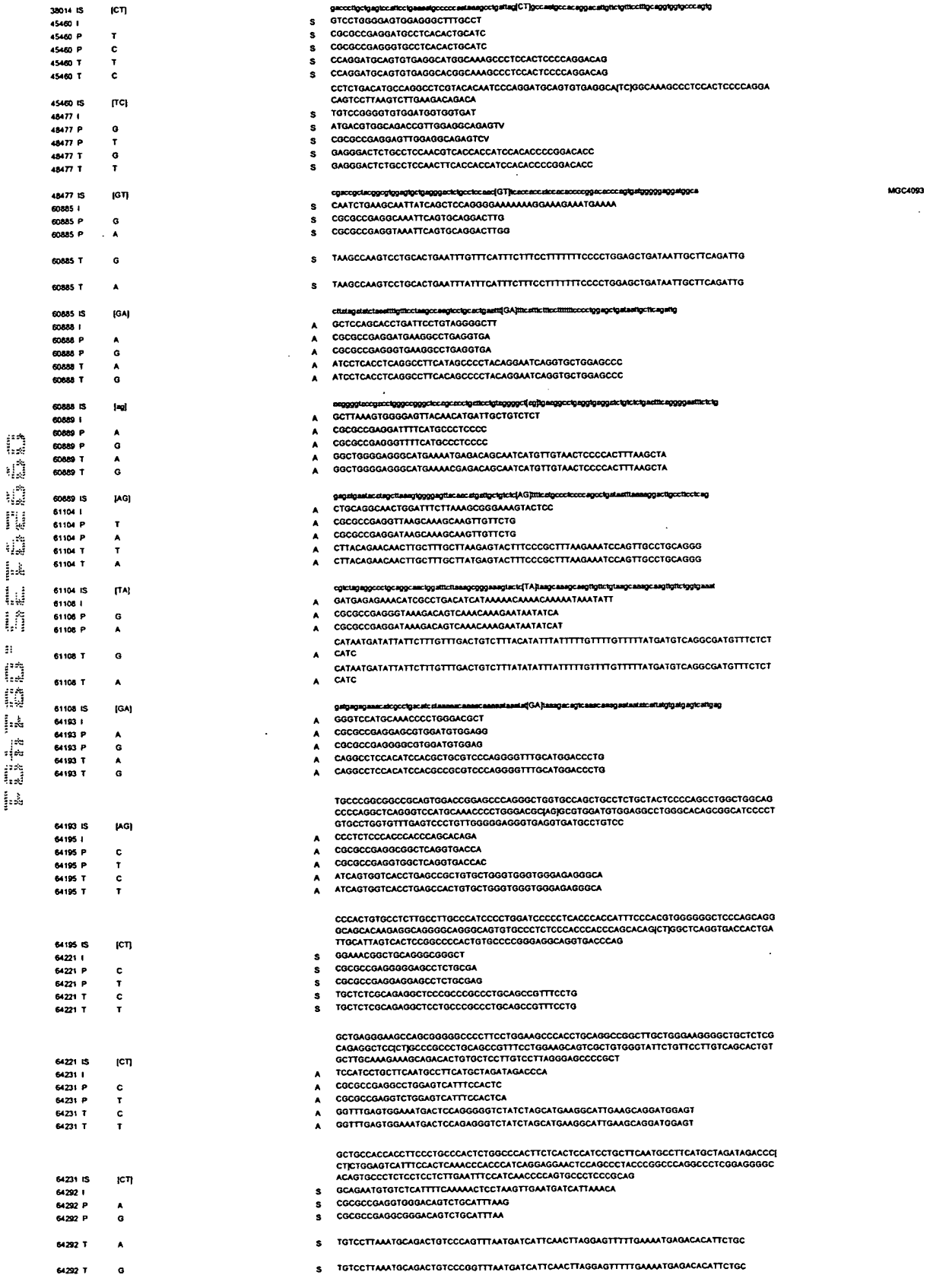

38014 IS [CT]
45460 I S GTCCTGGGGAGTGGAGGGCTTTGCCT
45460 P T S CGCGCCGAGGATGCCTCACACTGCATC
45460 P C S CGCGCCGAGGGTGCCTCACACTGCATC
45460 T T S CCAGGATGCAGTGTGAGGCATGGCAAAGCCCTCCACTCCCCAGGACAG
45460 T C S CCAGGATGCAGTGTGAGGCACGGCAAAGCCCTCCACTCCCCAGGACAG
45460 IS [TC]
48477 I S TGTCCGGGGTGTGGATGGTGGTGAT
48477 P G S ATGACGTGGCAGACCGTTGGAGGCAGAGTV
48477 P T S CGCGCCGAGGAGTTGGAGGCAGAGTCV
48477 T G S GAGGGACTCTGCCTCCAACGTCACCACCATCCACACCCCGGACACC
48477 T T S GAGGGACTCTGCCTCCAACTTCACCACCATCCACACCCCGGACACC
48477 IS [GT]
MGC4093
60885 I S CAATCTGAAGCAATTATCAGCTCCAGGGGAAAAAAAGGAAAGAAATGAAAA
60885 P G S CGCGCCGAGGCAAATTCAGTGCAGGACTTG
60885 P A S CGCGCCGAGGTAAATTCAGTGCAGGACTTGG
60885 T G S TAAGCCAAGTCCTGCACTGAATTTGTTTCATTTCTTTCCTTTTTTTCCCCTGGAGCTGATAATTGCTTCAGATTG
60885 T A S TAAGCCAAGTCCTGCACTGAATTTATTTCATTTCTTTCCTTTTTTTCCCCTGGAGCTGATAATTGCTTCAGATTG
60885 IS [GA]
60888 I A GCTCCAGCACCTGATTCCTGTAGGGGCTT
60888 P A A CGCGCCGAGGATGAAGGCCTGAGGTGA
60888 P G A CGCGCCGAGGGTGAAGGCCTGAGGTGA
60888 T A A ATCCTCACCTCAGGCCTTCATAGCCCCTACAGGAATCAGGTGCTGGAGCCC
60888 T G A ATCCTCACCTCAGGCCTTCACAGCCCCTACAGGAATCAGGTGCTGGAGCCC
60888 IS [ag]
60889 I A GCTTAAAGTGGGGAGTTACAACATGATTGCTGTCTCT
60889 P A A CGCGCCGAGGATTTTCATGCCCTCCCC
60889 P G A CGCGCCGAGGGTTTTCATGCCCTCCCC
60889 T A A GGCTGGGGAGGGCATGAAAATGAGACAGCAATCATGTTGTAACTCCCCACTTTAAGCTA
60889 T G A GGCTGGGGAGGGCATGAAAACGAGACAGCAATCATGTTGTAACTCCCCACTTTAAGCTA
60889 IS [AG]
61104 I A CTGCAGGCAACTGGATTTCTTAAAGCGGGAAAGTACTCC
61104 P T A CGCGCCGAGGTTAAGCAAAGCAAGTTGTTCTG
61104 P A A CGCGCCGAGGATAAGCAAAGCAAGTTGTTCTG
61104 T T A CTTACAGAACAACTTGCTTTGCTTAAGAGTACTTTCCCGCTTTAAGAAATCCAGTTGCCTGCAGGG
61104 T A A CTTACAGAACAACTTGCTTTGCTTATGAGTACTTTCCCGCTTTAAGAAATCCAGTTGCCTGCAGGG
61104 IS [TA]
61108 I A GATGAGAGAAACATCGCCTGACATCATAAAAACAAAACAAAAATAAATATT
61108 P G A CGCGCCGAGGGTAAAGACAGTCAAACAAAGAATAATATCA
61108 P A A CGCGCCGAGGATAAAGACAGTCAAACAAAGAATAATATCAT
61108 T G A CATAATGATATTATTCTTTGTTTGACTGTCTTTACATATTTATTTTTGTTTTGTTTTTATGATGTCAGGCGATGTTTCTCT CATC
61108 T A A CATAATGATATTATTCTTTGTTTGACTGTCTTTATATATTTATTTTTGTTTTGTTTTTATGATGTCAGGCGATGTTTCTCT CATC
61108 IS [GA]
64193 I A GGGTCCATGCAAACCCCTGGGACGCT
64193 P A A CGCGCCGAGGAGCGTGGATGTGGAGG
64193 P G A CGCGCCGAGGGGCGTGGATGTGGAG
64193 T A A CAGGCCTCCACATCCACGCTGCGTCCCAGGGGTTTGCATGGACCCTG
64193 T G A CAGGCCTCCACATCCACGCCGCGTCCCAGGGGTTTGCATGGACCCTG
64193 IS [AG]
64195 I A CCCTCTCCCACCCACCCAGCACAGA
64195 P C A CGCGCCGAGGCGGCTCAGGTGACCA
64195 P T A CGCGCCGAGGTGGCTCAGGTGACCAC
64195 T C A ATCAGTGGTCACCTGAGCCGCTGTGCTGGGTGGGTGGGAGAGGGCA
64195 T T A ATCAGTGGTCACCTGAGCCACTGTGCTGGGTGGGTGGGAGAGGGCA
64195 IS [CT]
64221 I S GGAAACGGCTGCAGGGCGGGCT
64221 P C S CGCGCCGAGGGGGAGCCTCTGCGA
64221 P T S CGCGCCGAGGAGGAGCCTCTGCGAG
64221 T C S TGCTCTCGCAGAGGCTCCCGCCCGCCCTGCAGCCGTTTCCTG
64221 T T S TGCTCTCGCAGAGGCTCCTGCCCGCCCTGCAGCCGTTTCCTG
64221 IS [CT]
64231 I A TCCATCCTGCTTCAATGCCTTCATGCTAGATAGACCCA
64231 P C A CGCGCCGAGGCCTGGAGTCATTTCCACTC
64231 P T A CGCGCCGAGGTCTGGAGTCATTTCCACTCA
64231 T C A GGTTTGAGTGGAAATGACTCCAGGGGGTCTATCTAGCATGAAGGCATTGAAGCAGGATGGAGT
64231 T T A GGTTTGAGTGGAAATGACTCCAGAGGGTCTATCTAGCATGAAGGCATTGAAGCAGGATGGAGT
64231 IS [CT]
64292 I S GCAGAATGTGTCTCATTTTCAAAAACTCCTAAGTTGAATGATCATTAAACA
64292 P A S CGCGCCGAGGTGGGACAGTCTGCATTTAAG
64292 P G S CGCGCCGAGGCGGGACAGTCTGCATTTAA
64292 T A S TGTCCTTAAATGCAGACTGTCCCAGTTTAATGATCATTCAACTTAGGAGTTTTTGAAAATGAGACACATTCTGC
64292 T G S TGTCCTTAAATGCAGACTGTCCCGGTTTAATGATCATTCAACTTAGGAGTTTTTGAAAATGAGACACATTCTGC

FIGURE 129D

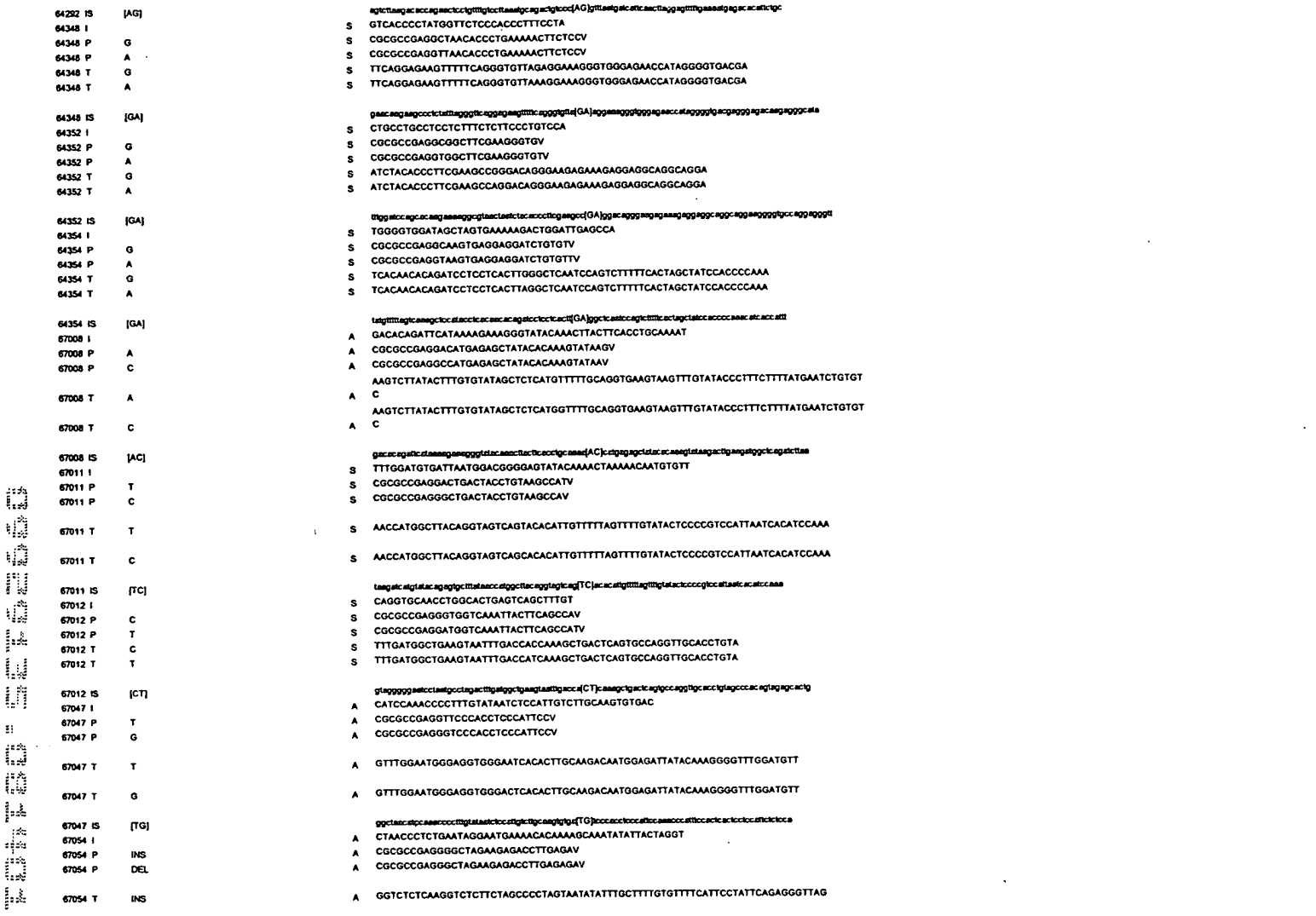
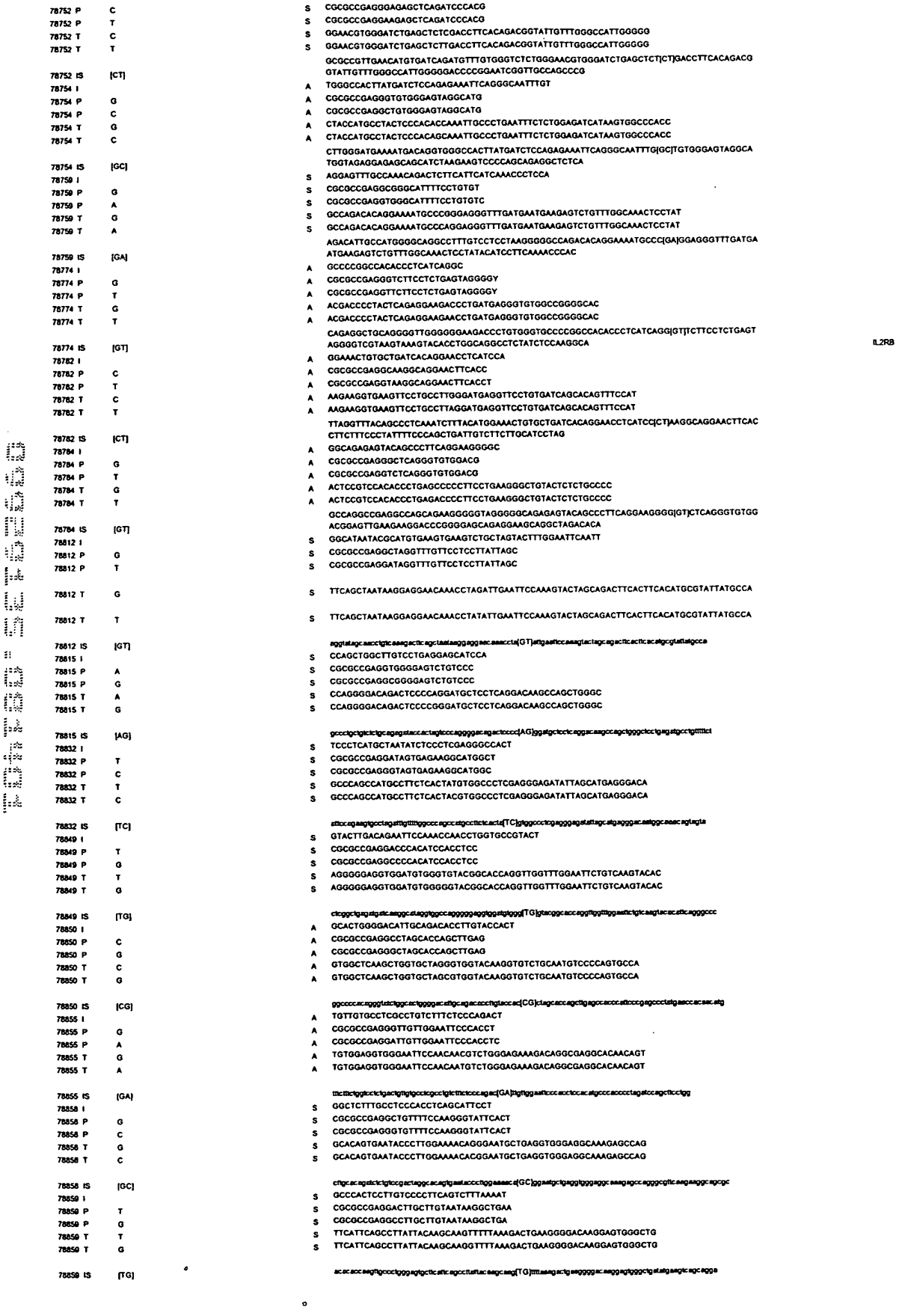
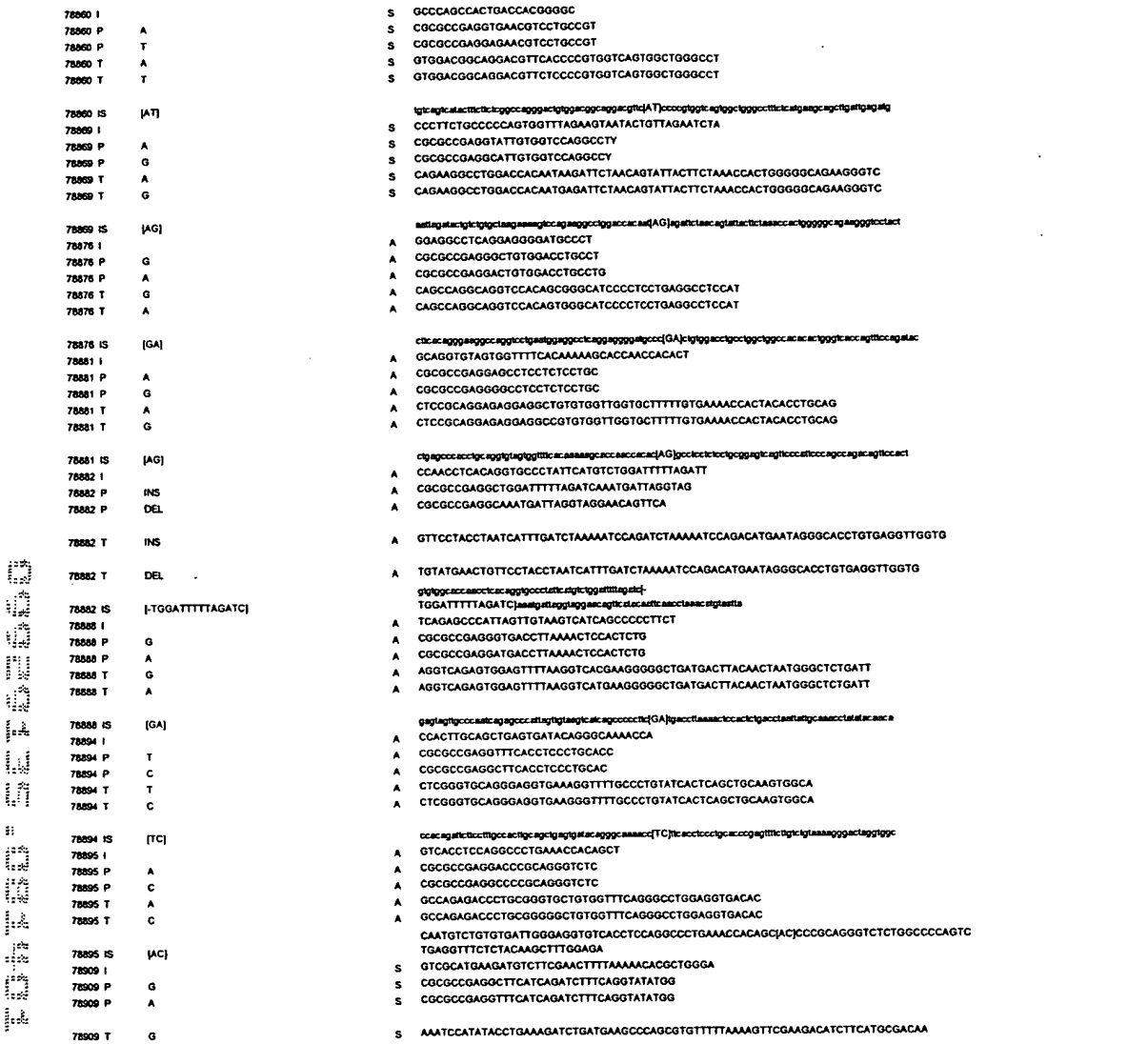

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64348 T A
64348 IS [GA]
64352 I
64352 P G
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64352 T G
64352 T A
64352 IS [GA]
64354 I
64354 P G
64354 P A
64354 T G
64354 T A
64354 IS [GA]
67008 I
67008 P A
67008 P C
67008 T A
67008 T C
67008 IS [AC]
67011 I
67011 P T
67011 P C
67011 T T
67011 T C
67011 IS [TC]
67012 I
67012 P C
67012 P T
67012 T C
67012 T T
67012 IS [CT]
67047 I
67047 P T
67047 P G
67047 T T
67047 T G
67047 IS [TG]
67054 I
67054 P INS
67054 P DEL
67054 T INS
67054 T DEL
67054 IS [-G]
67094 I
67094 P INS
67094 P DEL
67094 T INS
67094 T DEL
67094 IS [-AGAA]
75715 I
75715 P A
75715 P T
75715 T A
75715 T T
75715 IS [AT]
75716 I
75716 P A
75716 P G
75716 T A
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75716 IS [AG]
75717 I
75717 P C
75717 P T
75717 T C
75717 T T
75717 IS [CT]
78752 I
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S CGCGCCGAGGCTAACACCCTGAAAAACTTCTCCV
S CGCGCCGAGGTTAACACCCTGAAAAACTTCTCCV
S TTCAGGAGAAGTTTTTCAGGGTGTTAGAGGAAAGGGTGGGAGAACCATAGGGGTGACGA
S TTCAGGAGAAGTTTTTCAGGGTGTTAAAGGAAAGGGTGGGAGAACCATAGGGGTGACGA
S CTGCCTGCCTCCTCTTTCTCTTCCCTGTCCA
S CGCGCCGAGGCGGCTTCGAAGGGTGV
S CGCGCCGAGGTGGCTTCGAAGGGTGTV
S ATCTACACCCTTCGAAGCCGGGACAGGGAAGAGAAAGAGGAGGCAGGCAGGA
S ATCTACACCCTTCGAAGCCAGGACAGGGAAGAGAAAGAGGAGGCAGGCAGGA
S TGGGGTGGATAGCTAGTGAAAAAGACTGGATTGAGCCA
S CGCGCCGAGGCAAGTGAGGAGGATCTGTGTV
S CGCGCCGAGGTAAGTGAGGAGGATCTGTGTTV
S TCACAACACAGATCCTCCTCACTTGGGCTCAATCCAGTCTTTTTCACTAGCTATCCACCCCAAA
S TCACAACACAGATCCTCCTCACTTAGGCTCAATCCAGTCTTTTTCACTAGCTATCCACCCCAAA
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A CGCGCCGAGGCCATGAGAGCTATACACAAAGTATAAV
A C
A C
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S CGCGCCGAGGACTGACTACCTGTAAGCCATV
S CGCGCCGAGGGCTGACTACCTGTAAGCCAV
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S AACCATGGCTTACAGGTAGTCAGCACACATTGTTTTTAGTTTTGTATACTCCCCGTCCATTAATCACATCCAAA
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S CGCGCCGAGGATGGTCAAATTACTTCAGCCATV
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A CGCGCCGAGGTTCCCACCTCCCATTCCV
A CGCGCCGAGGGTCCCACCTCCCATTCCV
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A CGCGCCGAGGCTTTGGGGTATCTGGGCTY
A CGCGCCGAGGTTTTGGGGTATCTGGGCTY
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A CTGGAGCCCAGATACCCCAAAACCGGAGCCAGCTGCCTGCTGGTG
S CCCAATGGCCCAAACAATACCGTCTGTGAAGGTCT
PON1
Page 274

FIGURE 129D



IL2RB

FIGURE 129D


78860 I S GCCCAGCCACTGACCACGGGGC
78860 P A S CGCGCCGAGGTGAACGTCCTGCCGT
78860 P T S CGCGCCGAGGAGAACGTCCTGCCGT
78860 T A S GTGGACGGCAGGACGTTCACCCCGTGGTCAGTGGCTGGGCCT
78860 T T S GTGGACGGCAGGACGTTCTCCCCGTGGTCAGTGGCTGGGCCT
78860 IS [AT]
78869 I S CCCTTCTGCCCCCAGTGGTTTAGAAGTAATACTGTTAGAATCTA
78869 P A S CGCGCCGAGGTATTGTGGTCCAGGCCTY
78869 P G S CGCGCCGAGGCATTGTGGTCCAGGCCY
78869 T A S CAGAAGGCCTGGACCACAATAAGATTCTAACAGTATTACTTCTAAACCACTGGGGGCAGAAGGGTC
78869 T G S CAGAAGGCCTGGACCACAATGAGATTCTAACAGTATTACTTCTAAACCACTGGGGGCAGAAGGGTC
78869 IS [AG]
78876 I A GGAGGCCTCAGGAGGGGATGCCCT
78876 P G A CGCGCCGAGGGCTGTGGACCTGCCT
78876 P A A CGCGCCGAGGACTGTGGACCTGCCTG
78876 T G A CAGCCAGGCAGGTCCACAGCGGGCATCCCCTCCTGAGGCCTCCAT
78876 T A A CAGCCAGGCAGGTCCACAGTGGGCATCCCCTCCTGAGGCCTCCAT
78876 IS [GA]
78881 I A GCAGGTGTAGTGGTTTTCACAAAAAGCACCAACCACACT
78881 P A A CGCGCCGAGGAGCCTCCTCTCCTGC
78881 P G A CGCGCCGAGGGGCCTCCTCTCCTGC
78881 T A A CTCCGCAGGAGAGGAGGCTGTGTGGTTGGTGCTTTTTGTGAAAACCACTACACCTGCAG
78881 T G A CTCCGCAGGAGAGGAGGCCGTGTGGTTGGTGCTTTTTGTGAAAACCACTACACCTGCAG
78881 IS [AG]
78882 I A CCAACCTCACAGGTGCCCTATTCATGTCTGGATTTTTAGATT
78882 P INS A CGCGCCGAGGCTGGATTTTTAGATCAAATGATTAGGTAG
78882 P DEL A CGCGCCGAGGCAAATGATTAGGTAGGAACAGTTCA
78882 T INS A GTTCCTACCTAATCATTTGATCTAAAAATCCAGATCTAAAAATCCAGACATGAATAGGGCACCTGTGAGGTTGGTG
78882 T DEL A TGTATGAACTGTTCCTACCTAATCATTTGATCTAAAAATCCAGACATGAATAGGGCACCTGTGAGGTTGGTG
78882 IS [-TGGATTTTTAGATC]
78888 I A TCAGAGCCCATTAGTTGTAAGTCATCAGCCCCCTTCT
78888 P G A CGCGCCGAGGGTGACCTTAAAACTCCACTCTG
78888 P A A CGCGCCGAGGATGACCTTAAAACTCCACTCTG
78888 T G A AGGTCAGAGTGGAGTTTTAAGGTCACGAAGGGGGCTGATGACTTACAACTAATGGGCTCTGATT
78888 T A A AGGTCAGAGTGGAGTTTTAAGGTCATGAAGGGGGCTGATGACTTACAACTAATGGGCTCTGATT
78888 IS [GA]
78894 I A CCACTTGCAGCTGAGTGATACAGGGCAAAACCA
78894 P T A CGCGCCGAGGTTTCACCTCCCTGCACC
78894 P C A CGCGCCGAGGCTTCACCTCCCTGCAC
78894 T T A CTCGGGTGCAGGGAGGTGAAAGGTTTTGCCCTGTATCACTCAGCTGCAAGTGGCA
78894 T C A CTCGGGTGCAGGGAGGTGAAGGGTTTTGCCCTGTATCACTCAGCTGCAAGTGGCA
78894 IS [TC]
78895 I A GTCACCTCCAGGCCCTGAAACCACAGCT
78895 P A A CGCGCCGAGGACCCGCAGGGTCTC
78895 P C A CGCGCCGAGGCCCCGCAGGGTCTC
78895 T A A GCCAGAGACCCTGCGGGTGCTGTGGTTTCAGGGCCTGGAGGTGACAC
78895 T C A GCCAGAGACCCTGCGGGGGCTGTGGTTTCAGGGCCTGGAGGTGACAC
78895 IS [AC]
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78909 P G S CGCGCCGAGGCTTCATCAGATCTTTCAGGTATATGG
78909 P A S CGCGCCGAGGTTTCATCAGATCTTTCAGGTATATGG
78909 T G S AAATCCATATACCTGAAAGATCTGATGAAGCCCAGCGTGTTTTTAAAAGTTCGAAGACATCTTCATGCGACAA
78909 T A S AAATCCATATACCTGAAAGATCTGATGAAACCCAGCGTGTTTTTAAAAGTTCGAAGACATCTTCATGCGACAA
78909 IS [GA]
78912 I S TGTTCAGTTAAGGGGAGCAACAGAGGACATGAAAAATTGCTT
78912 P C S CGCGCCGAGGGTGACTAAAGCAGGGACAATT
78912 P T S CGCGCCGAGGATGACTAAAGCAGGGACAATTT
78912 T C S CAGCAAATTGTCCCTGCTTTAGTCACAGCAATTTTTCATGTCCTCTGTTGCTCCCCTTAACTGAACACC
78912 T T S CAGCAAATTGTCCCTGCTTTAGTCATAGCAATTTTTCATGTCCTCTGTTGCTCCCCTTAACTGAACACC
78912 IS [CT]
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78913 P C A CGCGCCGAGGCATGCTAAAGGACGTCACAT
78913 P G A CGCGCCGAGGGATGCTAAAGGACGTCACATT
78913 T C A GTGCAATGTGACGTCCTTTAGCATGGCAAGACACAACTAGGGGGAAAAGTGCAGCTTAGGTC
78913 T G A GTGCAATGTGACGTCCTTTAGCATCGCAAGACACAACTAGGGGGAAAAGTGCAGCTTAGGTC
78913 IS [CG]
78914 I A GCCCCTCACACAGCCCTGGCCTCA
78914 P T A CGCGCCGAGGTGCTCAACTAGCAGATACAGG
78914 P C A CGCGCCGAGGCGCTCAACTAGCAGATACAG
78914 T T A CATCCCTGTATCTGCTAGTTGAGCAGAGGCCAGGGCTGTGTGAGGGGCTC
78914 T C A CATCCCTGTATCTGCTAGTTGAGCGGAGGCCAGGGCTGTGTGAGGGGCTC
78914 IS [TC]
78919 I S CACACAGTTGCTCACCCCTCCTATTCATGCACTTGA
78919 P A S CGCGCCGAGGTGCACAAAGGTGCCC
78919 P G S CGCGCCGAGGCGCACAAAGGTGCCC
78919 T A S ACGTGGGCACCTTTGTGCACAAGTGCATGAATAGGAGGGGTGAGCAACTGTGTGTC
78919 T G S ACGTGGGCACCTTTGTGCGCAAGTGCATGAATAGGAGGGGTGAGCAACTGTGTGTC
IL4R

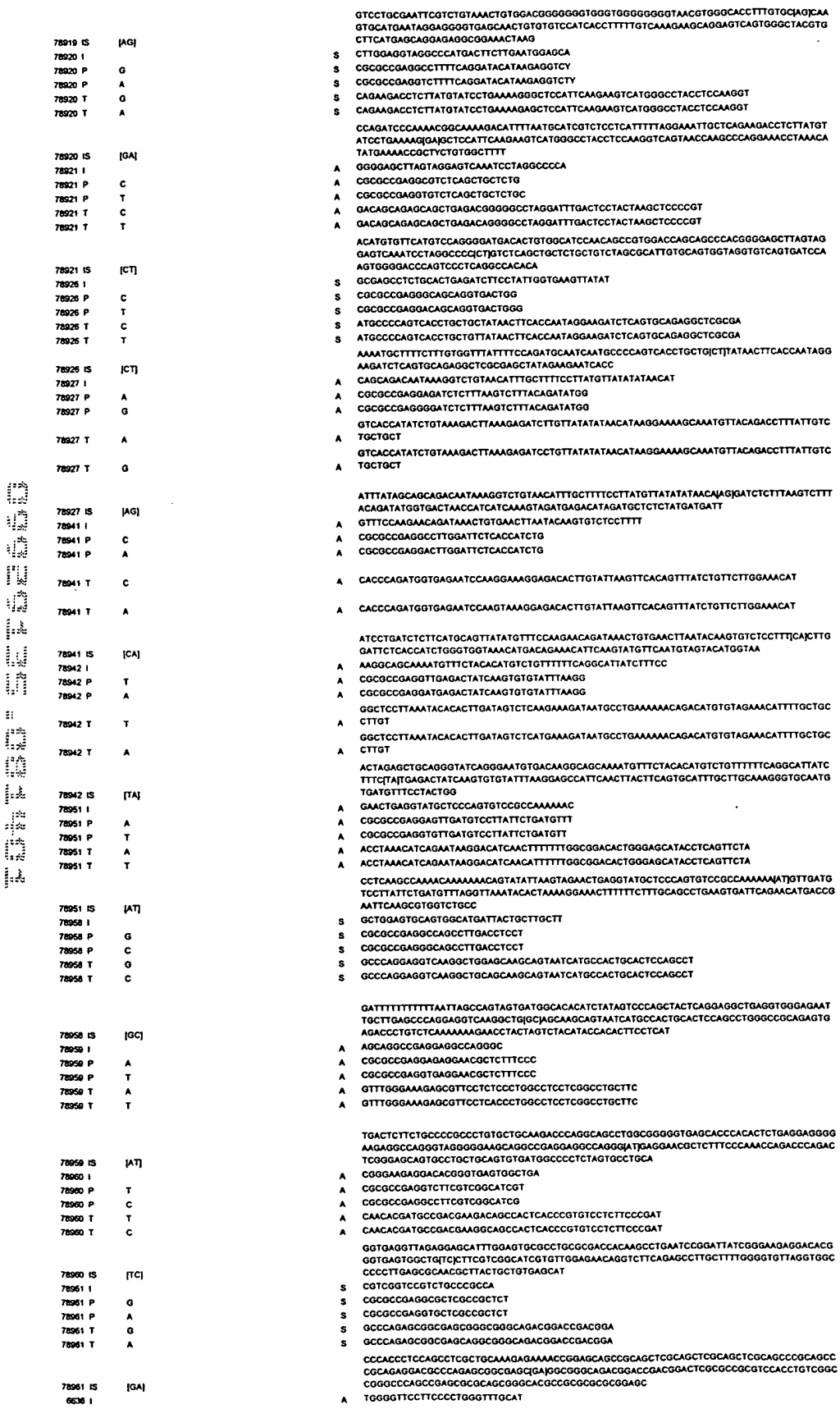
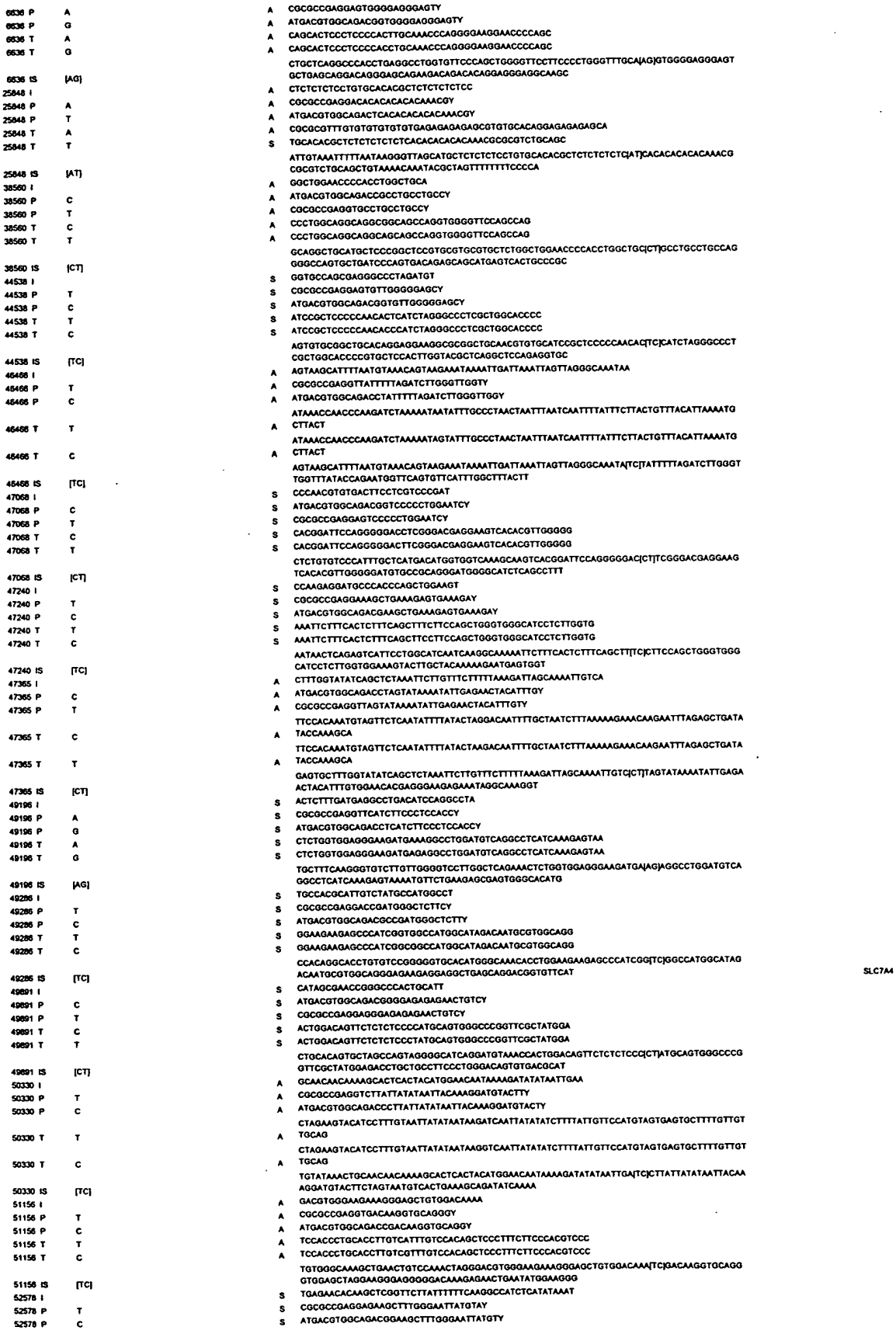
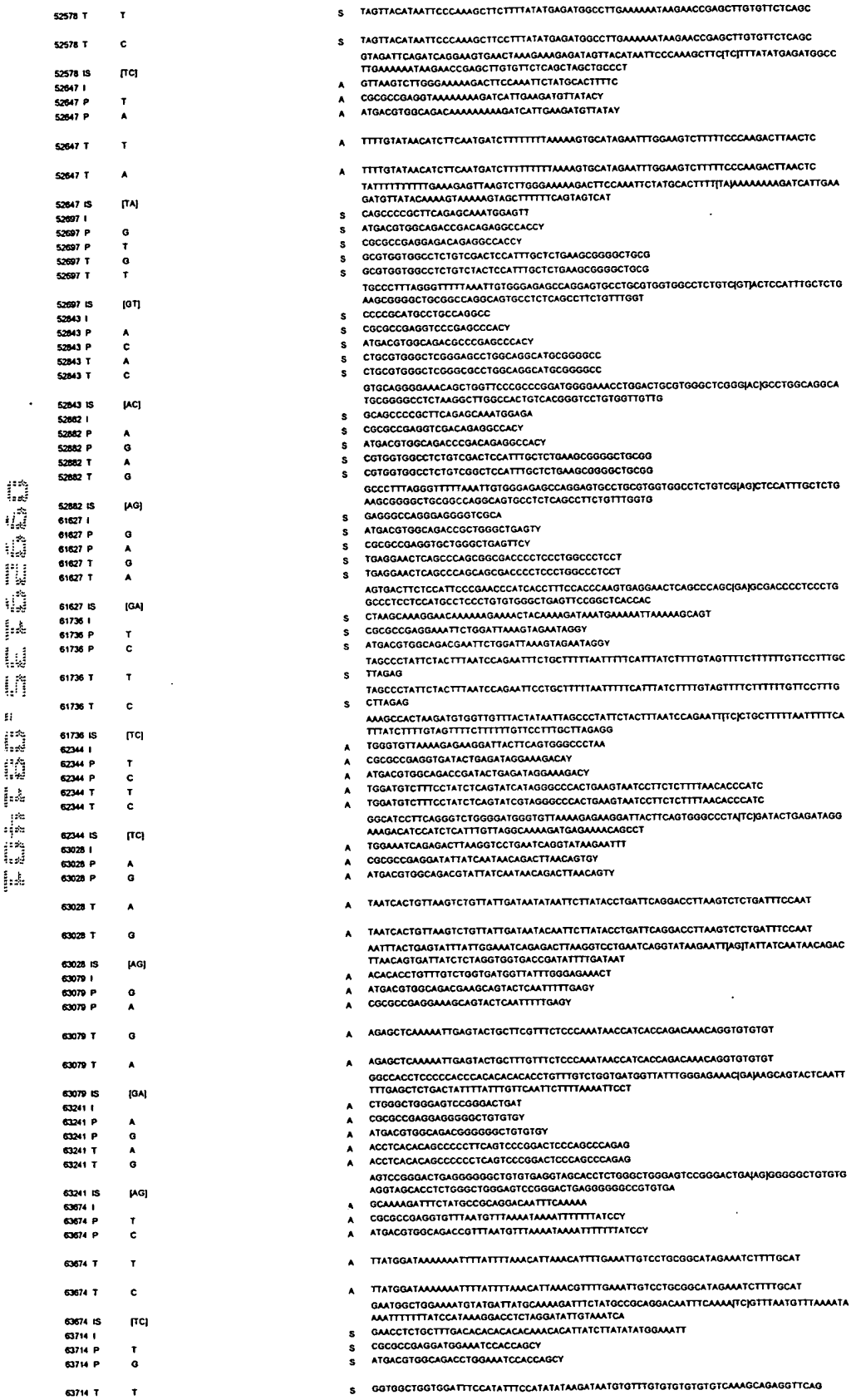

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78920 t S CTTGGAGGTAGGCCCATGACTTCTTGAATGGAGCA
78920 P G S CGCGCCGAGGCCTTTTCAGGATACATAAGAGGTCY
78920 P A S CGCGCCGAGGTCTTTTCAGGATACATAAGAGGTCTY
78920 T G S CAGAAGACCTCTTATGTATCCTGAAAAGGGCTCCATTCAAGAAGTCATGGGCCTACCTCCAAGGT
78920 T A S CAGAAGACCTCTTATGTATCCTGAAAAGAGCTCCATTCAAGAAGTCATGGGCCTACCTCCAAGGT
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78920 tS [GA] TATGAAAACCGCTYCTGTGGCTTTT
78921 t A GGGGAGCTTAGTAGGAGTCAAATCCTAGGCCCCA
78921 P C A CGCGCCGAGGCGTCTCAGCTGCTCTG
78921 P T A CGCGCCGAGGTGTCTCAGCTGCTCTGC
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78921 tS [CT] AGTGGGGACCCAGTCCCTCAGGCCACACA
78926 t S GCGAGCCTCTGCACTGAGATCTTCCTATTGGTGAAGTTATAT
78926 P C S CGCGCCGAGGGCAGCAGGTGACTGG
78926 P T S CGCGCCGAGGACAGCAGGTGACTGGG
78926 T C S ATGCCCCAGTCACCTGCTGCTATAACTTCACCAATAGGAAGATCTCAGTGCAGAGGCTCGCGA
78926 T T S ATGCCCCAGTCACCTGCTGTTATAACTTCACCAATAGGAAGATCTCAGTGCAGAGGCTCGCGA
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78926 tS [CT] AAGATCTCAGTGCAGAGGCTCGCGAGCTATAGAAGAATCACC
78927 t A CAGCAGACAATAAAGGTCTGTAACATTTGCTTTTCCTTATGTTATATATAACAT
78927 P A A CGCGCCGAGGAGATCTCTTTAAGTCTTTACAGATATGG
78927 P G A CGCGCCGAGGGGATCTCTTTAAGTCTTTACAGATATGG
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78927 T A A TGCTGCT
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78927 T G A TGCTGCT
ATTTATAGCAGCAGACAATAAAGGTCTGTAACATTTGCTTTTCCTTATGTTATATATAACA[AG]GATCTCTTTAAGTCTTT
ACAGATATGGTGACTAACCATCATCAAAGTAGATGAGACATAGATGCTCTCTATGATGATT
78927 tS [AG] GTTTCCAAGAACAGATAAACTGTGAACTTAATACAAGTGTCTCCTTTT
78941 I A CGCGCCGAGGCCTTGGATTCTCACCATCTG
78941 P C A CGCGCCGAGGACTTGGATTCTCACCATCTG
78941 P A A CACCCAGATGGTGAGAATCCAAGGAAAGGAGACACTTGTATTAAGTTCACAGTTTATCTGTTCTTGGAAACAT
78941 T C A CACCCAGATGGTGAGAATCCAAGTAAAGGAGACACTTGTATTAAGTTCACAGTTTATCTGTTCTTGGAAACAT
ATCCTGATCTCTTCATGCAGTTATATGTTTCCAAGAACAGATAAACTGTGAACTTAATACAAGTGTCTCCTTT[CA]CTTG
78941 tS [CA] GATTCTCACCATCTGGGTGGTAAACATGACAGAAACATTCAAGTATGTTCAATGTAGTACATGGTAA
78942 I A AAGGCAGCAAAATGTTTCTACACATGTCTGTTTTTTCAGGCATTATCTTTCC
78942 P T A CGCGCCGAGGTTGAGACTATCAAGTGTGTATTTAAGG
78942 P A A CGCGCCGAGGATGAGACTATCAAGTGTGTATTTAAGG
GGCTCCTTAAATACACACTTGATAGTCTCAAGAAAGATAATGCCTGAAAAAACAGACATGTGTAGAAACATTTTGCTGC
78942 T T A CTTGT
GGCTCCTTAAATACACACTTGATAGTCTCATGAAAGATAATGCCTGAAAAAACAGACATGTGTAGAAACATTTTGCTGC
78942 T A A CTTGT
ACTAGAGCTGCAGGGTATCAGGGAATGTGACAAGGCAGCAAAATGTTTCTACACATGTCTGTTTTTTCAGGCATTATC
TTTC[TA]TGAGACTATCAAGTGTGTATTTAAGGAGCCATTCAACTTACTTCAGTGCATTTGCTTGCAAAGGGTGCAATG
78942 tS [TA] TGATGTTTCCTACTGG
78951 I A GAACTGAGGTATGCTCCCAGTGTCCGCCAAAAAAC
78951 P A A CGCGCCGAGGAGTTGATGTCCTTATTCTGATGTTT
78951 P T A CGCGCCGAGGTGTTGATGTCCTTATTCTGATGTT
78951 T A A ACCTAAACATCAGAATAAGGACATCAACTTTTTTTGGCGGACACTGGGAGCATACCTCAGTTCTA
78951 T T A ACCTAAACATCAGAATAAGGACATCAACATTTTTTGGCGGACACTGGGAGCATACCTCAGTTCTA
CCTCAAGCCAAAACAAAAAAACAGTATATTAAGTAGAACTGAGGTATGCTCCCAGTGTCCGCCAAAAAA[AT]GTTGATG
TCCTTATTCTGATGTTTAGGTTAAATACACTAAAAGGAAACTTTTTTCTTTGCAGCCTGAAGTGATTCAGAACATGACCG
78951 tS [AT] AATTCAAGCGTGGTCTGCC
78958 I S GCTGGAGTGCAGTGGCATGATTACTGCTTGCTT
78958 P G S CGCGCCGAGGCCAGCCTTGACCTCCT
78958 P C S CGCGCCGAGGGCAGCCTTGACCTCCT
78958 T G S GCCCAGGAGGTCAAGGCTGGAGCAAGCAGTAATCATGCCACTGCACTCCAGCCT
78958 T C S GCCCAGGAGGTCAAGGCTGCAGCAAGCAGTAATCATGCCACTGCACTCCAGCCT
GATTTTTTTTTTTAATTAGCCAGTAGTGATGGCACACATCTATAGTCCCAGCTACTCAGGAGGCTGAGGTGGGAGAAT
TGCTTGAGCCCAGGAGGTCAAGGCTG[GC]AGCAAGCAGTAATCATGCCACTGCACTCCAGCCTGGGCCGCAGAGTG
78958 tS [GC] AGACCCTGTCTCAAAAAAAGAACCTACTAGTCTACATACCACACTTCCTCAT
78959 I A AGCAGGCCGAGGAGGCCAGGGC
78959 P A A CGCGCCGAGGAGGAACGCTCTTTCCC
78959 P T A CGCGCCGAGGTGAGGAACGCTCTTTCCC
78959 T A A GTTTGGGAAAGAGCGTTCCTCTCCCTGGCCTCCTCGGCCTGCTTC
78959 T T A GTTTGGGAAAGAGCGTTCCTCACCCTGGCCTCCTCGGCCTGCTTC
TGACTCTTCTGCCCCGCCCTGTGCTGCAAGACCCAGGCAGCCTGGCGGGGGTGAGCACCCACACTCTGAGGAGGGG
AAGAGGCCAGGGTAGGGGGAAGCAGGCCGAGGAGGCCAGGG[AT]GAGGAACGCTCTTTCCCAAACCAGACCCAGAC
78959 tS [AT] TCGGGAGCAGTGCCTGCTGCAGTGTGATGGCCCCTCTAGTGCCTGCA
78960 I A CGGGAAGAGGACACGGGTGAGTGGCTGA
78960 P T A CGCGCCGAGGTCTTCGTCGGCATCGT
78960 P C A CGCGCCGAGGCCTTCGTCGGCATCG
78960 T T A CAACACGATGCCGACGAAGACAGCCACTCACCCGTGTCCTCTTCCCGAT
78960 T C A CAACACGATGCCGACGAAGGCAGCCACTCACCCGTGTCCTCTTCCCGAT
GGTGAGGTTAGAGGAGCATTTGGAGTGCGCCTGCGCGACCACAAGCCTGAATCCGGATTATCGGGAAGAGGACACG
GGTGAGTGGCTG[TC]CTTCGTCGGCATCGTGTTGGAGAACAGGTCTTCAGAGCCTTGCTTTTGGGGTGTTAGGTGGC
78960 tS [TC] CCCCTTGAGCGCAACGCTTACTGCTGTGAGCAT
78961 I S CGTCGGTCCGTCTGCCCGCCA
78961 P G S CGCGCCGAGGCGCTCGCCGCTCT
78961 P A S CGCGCCGAGGTGCTCGCCGCTCT
78961 T G S GCCCAGAGCGGCGAGCGGGCGGGCAGACGGACCGACGGA
78961 T A S GCCCAGAGCGGCGAGCAGGCGGGCAGACGGACCGACGGA
CCCACCCTCCAGCCTCGCTGCAAAGAGAAAACCGGAGCAGCCGCAGCTCGCAGCTCGCAGCTCGCAGCCCGCAGCC
CGCAGAGGACGCCCAGAGCGGCGAGC[GA]GGCGGGCAGACGGACCGACGGACTCGCGCCGCGTCCACCTGTCGGC
78961 tS [GA] CGGGCCCAGCCGAGCGCGCAGCGGGCACGCCGCGCGCGCGGAGC
6636 I A TGGGGTTCCTTCCCCTGGGTTTGCAT

FIGURE 129D




52578 T T S TAGTTACATAATTCCCAAAGCTTCTTTTATATGAGATGGCCTTGAAAAAATAAGAACCGAGCTTGTGTTCTCAGC
52578 T C S TAGTTACATAATTCCCAAAGCTTCCTTTATATGAGATGGCCTTGAAAAAATAAGAACCGAGCTTGTGTTCTCAGC
GTAGATTCAGATCAGGAAGTGAACTAAAGAAAGAGATAGTTACATAATTCCCAAAGCTTC[T/C]TTTATATGAGATGGCC
52578 IS [TC] TTGAAAAAATAAGAACCGAGCTTGTGTTCTCAGCTAGCTGCCCT
52647 I A GTTAAGTCTTGGGAAAAAGACTTCCAAATTCTATGCACTTTTC
52647 P T A CGCGCCGAGGTAAAAAAAAGATCATTGAAGATGTTATACY
52647 P A A ATGACGTGGCAGACAAAAAAAAAGATCATTGAAGATGTTATAY
52647 T T A TTTTGTATAACATCTTCAATGATCTTTTTTTTAAAAAGTGCATAGAATTTGGAAGTCTTTTTCCCAAGACTTAACTC
52647 T A A TTTTGTATAACATCTTCAATGATCTTTTTTTTAAAAAGTGCATAGAATTTGGAAGTCTTTTTCCCAAGACTTAACTC
TATTTTTTTTTTGAAAGAGTTAAGTCTTGGGAAAAAGACTTCCAAATTCTATGCACTTTT[TA]AAAAAAAAAGATCATTGAA
52647 IS [TA] GATGTTATACAAAAGTAAAAAGTAGCTTTTTTCAGTAGTCAT
52697 I S CAGCCCCGCTTCAGAGCAAATGGAGTT
52697 P G S ATGACGTGGCAGACCGACAGAGGCCACCY
52697 P T S CGCGCCGAGGAGACAGAGGCCACCY
52697 T G S GCGTGGTGGCCTCTGTCGACTCCATTTGCTCTGAAGCGGGGCTGCG
52697 T T S GCGTGGTGGCCTCTGTCTACTCCATTTGCTCTGAAGCGGGGCTGCG
TGCCCTTTAGGGTTTTTAAATTGTGGGAGAGCCAGGAGTGCCTGCGTGGTGGCCTCTGTC[G/T]ACTCCATTTGCTCTG
52697 IS [GT] AAGCGGGGCTGCGGCCAGGCAGTGCCTCTCAGCCTTCTGTTTGGT
52843 I S CCCCGCATGCCTGCCAGGCC
52843 P A S CGCGCCGAGGTCCCGAGCCCACY
52843 P C S ATGACGTGGCAGACGCCCGAGCCCACY
52843 T A S CTGCGTGGGCTCGGGAGCCTGGCAGGCATGCGGGGCC
52843 T C S CTGCGTGGGCTCGGGCGCCTGGCAGGCATGCGGGGCC
GTGCAGGGGAAACAGCTGGTTCCCGCCCGGATGGGGAAACCTGGACTGCGTGGGCTCGGG[A/C]GCCTGGCAGGCA
52843 IS [AC] TGCGGGGCCTCTAAGGCTTGGCCACTGTCACGGGTCCTGTGGTTGTTG
52882 I S GCAGCCCCGCTTCAGAGCAAATGGAGA
52882 P A S CGCGCCGAGGTCGACAGAGGCCACY
52882 P G S ATGACGTGGCAGACCCGACAGAGGCCACY
52882 T A S CGTGGTGGCCTCTGTCGACTCCATTTGCTCTGAAGCGGGGCTGCGG
52882 T G S CGTGGTGGCCTCTGTCGGCTCCATTTGCTCTGAAGCGGGGCTGCGG
GCCCTTTAGGGTTTTTAAATTGTGGGAGAGCCAGGAGTGCCTGCGTGGTGGCCTCTGTCG[A/G]CTCCATTTGCTCTG
52882 IS [AG] AAGCGGGGCTGCGGCCAGGCAGTGCCTCTCAGCCTTCTGTTTGGTG
61627 I S GAGGGCCAGGGAGGGGTCGCA
61627 P G S ATGACGTGGCAGACCGCTGGGCTGAGTY
61627 P A S CGCGCCGAGGTGCTGGGCTGAGTTCY
61627 T G S TGAGGAACTCAGCCCAGCGGCGACCCCTCCCTGGCCCTCCT
61627 T A S TGAGGAACTCAGCCCAGCAGCGACCCCTCCCTGGCCCTCCT
AGTGACTTCTCCATTCCCGAACCCATCACCTTTCCACCCAAGTGAGGAACTCAGCCCAGC[G/A]GCGACCCCTCCCTG
61627 IS [GA] GCCCTCCTCCATGCCTCCCTGTGTGGGCTGAGTTCCGGCTCACCAC
61736 I S CTAAGCAAAGGAACAAAAAAGAAAACTACAAAAGATAAATGAAAAATTAAAAAGCAGT
61736 P T S CGCGCCGAGGAAATTCTGGATTAAAGTAGAATAGGY
61736 P C S ATGACGTGGCAGACGAATTCTGGATTAAAGTAGAATAGGY
TAGCCCTATTCTACTTTAATCCAGAATTTCTGCTTTTTAATTTTTCATTTATCTTTTGTAGTTTTCTTTTTTGTTCCTTTGC
61736 T T S TTAGAG
TAGCCCTATTCTACTTTAATCCAGAATTCCTGCTTTTTAATTTTTCATTTATCTTTTGTAGTTTTCTTTTTTGTTCCTTTG
61736 T C S CTTAGAG
AAAGCCACTAAGATGTGGTTGTTTACTATAATTAGCCCTATTCTACTTTAATCCAGAATT[T/C]CTGCTTTTTAATTTTTCA
61736 IS [TC] TTTATCTTTTGTAGTTTTCTTTTTTGTTCCTTTGCTTAGAGG
62344 I A TGGGTGTTAAAAGAGAAGGATTACTTCAGTGGGCCCTAA
62344 P T A CGCGCCGAGGTGATACTGAGATAGGAAAGACAY
62344 P C A ATGACGTGGCAGACCGATACTGAGATAGGAAAGACY
62344 T T A TGGATGTCTTTCCTATCTCAGTATCATAGGGCCCACTGAAGTAATCCTTCTCTTTTAACACCCATC
62344 T C A TGGATGTCTTTCCTATCTCAGTATCGTAGGGCCCACTGAAGTAATCCTTCTCTTTTAACACCCATC
GGCATCCTTCAGGGTCTGGGGATGGGTGTTAAAAGAGAAGGATTACTTCAGTGGGCCCTA[T/C]GATACTGAGATAGG
62344 IS [TC] AAAGACATCCATCTCATTTGTTAGGCAAAAGATGAGAAAACAGCCT
63028 I A TGGAAATCAGAGACTTAAGGTCCTGAATCAGGTATAAGAATTT
63028 P A A CGCGCCGAGGATATTATCAATAACAGACTTAACAGTGY
63028 P G A ATGACGTGGCAGACGTATTATCAATAACAGACTTAACAGTY
63028 T A A TAATCACTGTTAAGTCTGTTATTGATAATATAATTCTTATACCTGATTCAGGACCTTAAGTCTCTGATTTCCAAT
63028 T G A TAATCACTGTTAAGTCTGTTATTGATAATACAATTCTTATACCTGATTCAGGACCTTAAGTCTCTGATTTCCAAT
AATTTACTGAGTATTTATTGGAAATCAGAGACTTAAGGTCCTGAATCAGGTATAAGAATT[A/G]TATTATCAATAACAGAC
63028 IS [AG] TTAACAGTGATTATCTCTAGGTGGTGACCGATATTTTGATAAT
63079 I A ACACACCTGTTTGTCTGGTGATGGTTATTTGGGAGAAACT
63079 P G A ATGACGTGGCAGACGAAGCAGTACTCAATTTTTGAGY
63079 P A A CGCGCCGAGGAAAGCAGTACTCAATTTTTGAGY
63079 T G A AGAGCTCAAAAATTGAGTACTGCTTCGTTTCTCCCAAATAACCATCACCAGACAAACAGGTGTGTGT
63079 T A A AGAGCTCAAAAATTGAGTACTGCTTTGTTTCTCCCAAATAACCATCACCAGACAAACAGGTGTGTGT
GGCCACCTCCCCCACCCACACACACACCTGTTTGTCTGGTGATGGTTATTTGGGAGAAAC[G/A]AAGCAGTACTCAATT
63079 IS [GA] TTTGAGCTCTGACTATTTTATTTGTTCAATTCTTTTAAAATTCCT
63241 I A CTGGGCTGGGAGTCCGGGACTGAT
63241 P A A CGCGCCGAGGAGGGGGCTGTGTGY
63241 P G A ATGACGTGGCAGACGGGGGGCTGTGTGY
63241 T A A ACCTCACACAGCCCCCTTCAGTCCCGGACTCCCAGCCCAGAG
63241 T G A ACCTCACACAGCCCCCCTCAGTCCCGGACTCCCAGCCCAGAG
AGTCCGGGACTGAGGGGGGCTGTGTGAGGTAGCACCTCTGGGCTGGGAGTCCGGGACTGA[A/G]GGGGGCTGTGTG
63241 IS [AG] AGGTAGCACCTCTGGGCTGGGAGTCCGGGACTGAGGGGGGCCGTGTGA
63674 I A GCAAAAGATTTCTATGCCGCAGGACAATTTCAAAAA
63674 P T A CGCGCCGAGGTGTTTAATGTTTAAAATAAAATTTTTTTATCCY
63674 P C A ATGACGTGGCAGACCGTTTAATGTTTAAAATAAAATTTTTTTATCCY
63674 T T A TTATGGATAAAAAAATTTTATTTTAAACATTAAACATTTTGAAATTGTCCTGCGGCATAGAAATCTTTTGCAT
63674 T C A TTATGGATAAAAAAATTTTATTTTAAACATTAAACGTTTTGAAATTGTCCTGCGGCATAGAAATCTTTTGCAT
GAATGGCTGGAAAATGTATGATTATGCAAAAGATTTCTATGCCGCAGGACAATTTCAAAA[T/C]GTTTAATGTTTAAAATA
63674 IS [TC] AAATTTTTTTATCCATAAAGGACCTCTAGGATATTGTAAATCA
63714 I S GAACCTCTGCTTTGACACACACACACAAACACATTATCTTATATATGGAAATT
63714 P T S CGCGCCGAGGATGGAAATCCACCAGCY
63714 P G S ATGACGTGGCAGACCTGGAAATCCACCAGCY
63714 T T S GGTGGCTGGTGGATTTCCATATTTCCATATATAAGATAATGTGTTTGTGTGTGTGTCAAAGCAGAGGTTCAG

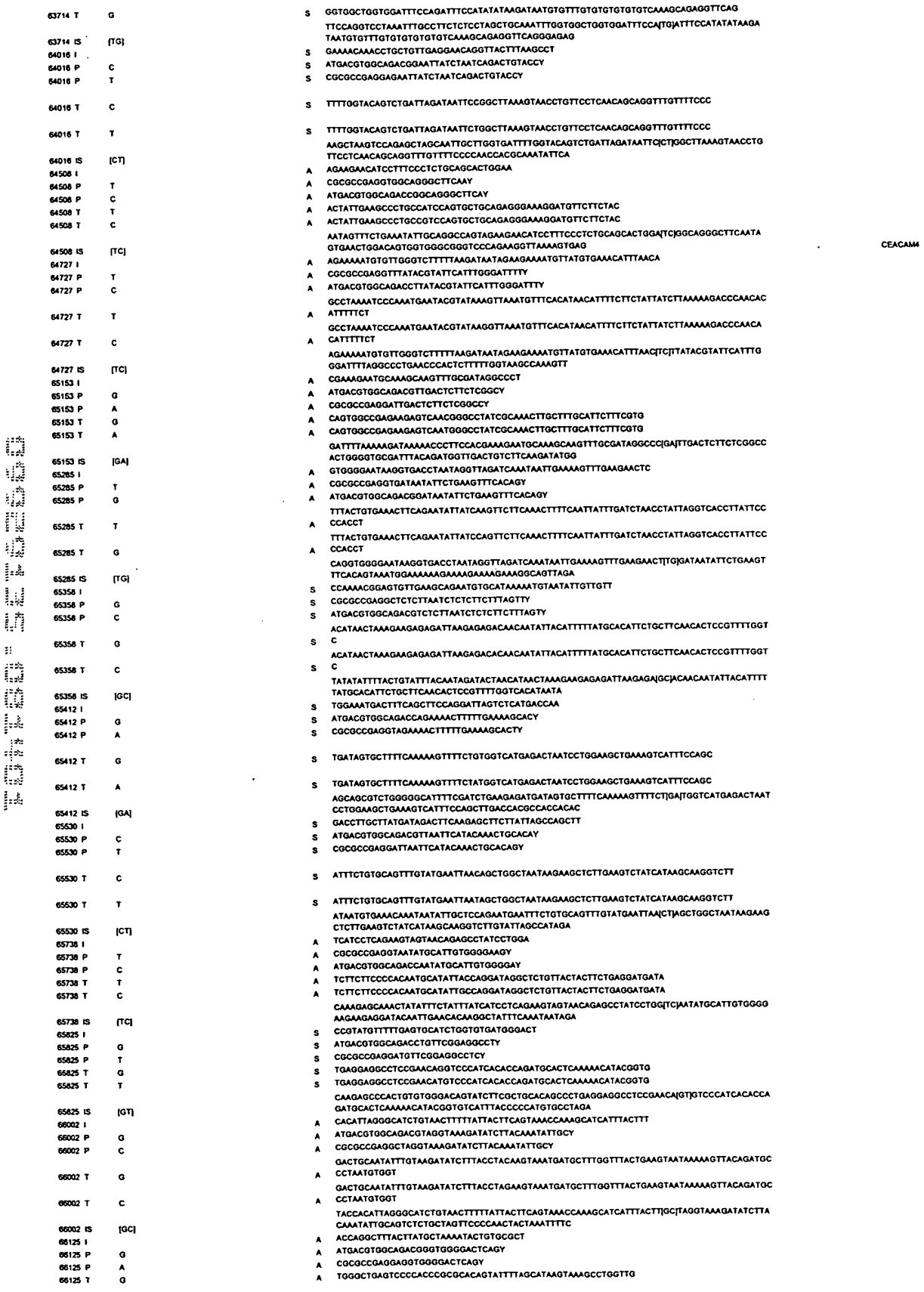

63714 T G
S GGTGGCTGGTGGATTTCCAGATTTCCATATATAAGATAATGTGTTTGTGTGTGTGTCAAAGCAGAGGTTCAG
TTCCAGGTCCTAAATTTGCCTTCTCTCCTAGCTGCAAATTTGGTGGCTGGTGGATTTCCA[TG]ATTTCCATATATAAGA
63714 IS [TG]
TAATGTGTTTGTGTGTGTGTCAAAGCAGAGGTTCAGGGAGAG
64016 I
S GAAAACAAACCTGCTGTTGAGGAACAGGTTACTTTAAGCCT
64016 P C
S ATGACGTGGCAGACGGAATTATCTAATCAGACTGTACCY
64016 P T
S CGCGCCGAGGAGAATTATCTAATCAGACTGTACCY
64016 T C
S TTTTGGTACAGTCTGATTAGATAATTCCGGCTTAAAGTAACCTGTTCCTCAACAGCAGGTTTGTTTTCCC
64016 T T
S TTTTGGTACAGTCTGATTAGATAATTCTGGCTTAAAGTAACCTGTTCCTCAACAGCAGGTTTGTTTTCCC
AAGCTAAGTCCAGAGCTAGCAATTGCTTGGTGATTTTGGTACAGTCTGATTAGATAATTC[CT]GGCTTAAAGTAACCTG
64016 IS [CT]
TTCCTCAACAGCAGGTTTGTTTTCCCCAACCACGCAAATATTCA
64508 I
A AGAAGAACATCCTTTCCCTCTGCAGCACTGGAA
64508 P T
A CGCGCCGAGGTGGCAGGGCTTCAAY
64508 P C
A ATGACGTGGCAGACCGGCAGGGCTTCAY
64508 T T
A ACTATTGAAGCCCTGCCATCCAGTGCTGCAGAGGGAAAGGATGTTCTTCTAC
64508 T C
A ACTATTGAAGCCCTGCCGTCCAGTGCTGCAGAGGGAAAGGATGTTCTTCTAC
AATAGTTTCTGAAATATTGCAGGCCAGTAGAAGAACATCCTTTCCCTCTGCAGCACTGGA[TC]GGCAGGGCTTCAATA
64508 IS [TC]
GTGAACTGGACAGTGGTGGGCGGGTCCCAGAAGGTTAAAAGTGAG
64727 I
A AGAAAAATGTGTTGGGTCTTTTTAAGATAATAGAAGAAAATGTTATGTGAAACATTTAACA
64727 P T
A CGCGCCGAGGTTTATACGTATTCATTTGGGATTTTY
64727 P C
A ATGACGTGGCAGACCTTATACGTATTCATTTGGGATTTY
GCCTAAAATCCCAAATGAATACGTATAAAGTTAAATGTTTCACATAACATTTTCTTCTATTATCTTAAAAAGACCCAACAC
64727 T T
A ATTTTTCT
GCCTAAAATCCCAAATGAATACGTATAAGGTTAAATGTTTCACATAACATTTTCTTCTATTATCTTAAAAAGACCCAACA
64727 T C
A CATTTTTCT
AGAAAAATGTGTTGGGTCTTTTTAAGATAATAGAAGAAAATGTTATGTGAAACATTTAAC[TC]TTATACGTATTCATTTG
64727 IS [TC]
GGATTTTAGGCCCTGAACCCACTCTTTTTGGTAAGCCAAAGTT
65153 I
A CGAAAGAATGCAAAGCAAGTTTGCGATAGGCCCT
65153 P G
A ATGACGTGGCAGACGTTGACTCTTCTCGGCY
65153 P A
A CGCGCCGAGGATTGACTCTTCTCGGCCY
65153 T G
A CAGTGGCCGAGAAGAGTCAACGGGCCTATCGCAAACTTGCTTTGCATTCTTTCGTG
65153 T A
A CAGTGGCCGAGAAGAGTCAATGGGCCTATCGCAAACTTGCTTTGCATTCTTTCGTG
GATTTTAAAAAGATAAAAACCCTTCCACGAAAGAATGCAAAGCAAGTTTGCGATAGGCCC[GA]TTGACTCTTCTCGGCC
65153 IS [GA]
ACTGGGGTGCGATTTACAGATGGTTGACTGTCTTCAAGATATGG
65285 I
A GTGGGGAATAAGGTGACCTAATAGGTTAGATCAAATAATTGAAAAGTTTGAAGAACTC
65285 P T
A CGCGCCGAGGTGATAATATTCTGAAGTTTCACAGY
65285 P G
A ATGACGTGGCAGACGGATAATATTCTGAAGTTTCACAGY
TTTACTGTGAAACTTCAGAATATTATCAAGTTCTTCAAACTTTTCAATTATTTGATCTAACCTATTAGGTCACCTTATTCC
65285 T T
A CCACCT
TTTACTGTGAAACTTCAGAATATTATCCAGTTCTTCAAACTTTTCAATTATTTGATCTAACCTATTAGGTCACCTTATTCC
65285 T G
A CCACCT
CAGGTGGGGAATAAGGTGACCTAATAGGTTAGATCAAATAATTGAAAAGTTTGAAGAACT[T]G]GATAATATTCTGAAGT
65285 IS [TG]
TTCACAGTAAATGGAAAAAAGAAAAGAAAAGAAAGGCAGTTAGA
65358 I
S CCAAAACGGAGTGTTGAAGCAGAATGTGCATAAAAATGTAATATTGTTGTT
65358 P G
S CGCGCCGAGGCTCTCTTAATCTCTCTTCTTTAGTTY
65358 P C
S ATGACGTGGCAGACGTCTCTTAATCTCTCTTCTTTAGTY
ACATAACTAAAGAAGAGAGATTAAGAGAGACAACAATATTACATTTTTATGCACATTCTGCTTCAACACTCCGTTTTGGT
65358 T G
S C
ACATAACTAAAGAAGAGAGATTAAGAGACACAACAATATTACATTTTTATGCACATTCTGCTTCAACACTCCGTTTTGGT
65358 T C
S C
TATATATTTTACTGTATTTACAATAGATACTAACATAACTAAAGAAGAGAGATTAAGAGA[GC]ACAACAATATTACATTTT
65358 IS [GC]
TATGCACATTCTGCTTCAACACTCCGTTTTGGTCACATAATA
65412 I
S TGGAAATGACTTTCAGCTTCCAGGATTAGTCTCATGACCAA
65412 P G
S ATGACGTGGCAGACCAGAAAACTTTTTGAAAAGCACY
65412 P A
S CGCGCCGAGGTAGAAAACTTTTTGAAAAGCACTY
65412 T G
S TGATAGTGCTTTTCAAAAAGTTTTCTGTGGTCATGAGACTAATCCTGGAAGCTGAAAGTCATTTCCAGC
65412 T A
S TGATAGTGCTTTTCAAAAAGTTTTCTATGGTCATGAGACTAATCCTGGAAGCTGAAAGTCATTTCCAGC
AGCAGCGTCTGGGGGCATTTTCGATCTGAAGAGATGATAGTGCTTTTCAAAAAGTTTTCT[GA]TGGTCATGAGACTAAT
65412 IS [GA]
CCTGGAAGCTGAAAGTCATTTCCAGCTTGACCACGCCACCACAC
65530 I
S GACCTTGCTTATGATAGACTTCAAGAGCTTCTTATTAGCCAGCTT
65530 P C
S ATGACGTGGCAGACGTTAATTCATACAAACTGCACAY
65530 P T
S CGCGCCGAGGATTAATTCATACAAACTGCACAGY
65530 T C
S ATTTCTGTGCAGTTTGTATGAATTAACAGCTGGCTAATAAGAAGCTCTTGAAGTCTATCATAAGCAAGGTCTT
65530 T T
S ATTTCTGTGCAGTTTGTATGAATTAATAGCTGGCTAATAAGAAGCTCTTGAAGTCTATCATAAGCAAGGTCTT
ATAATGTGAAACAAATAATATTGCTCCAGAATGAATTTCTGTGCAGTTTGTATGAATTAA[CT]AGCTGGCTAATAAGAAG
65530 IS [CT]
CTCTTGAAGTCTATCATAAGCAAGGTCTTGTATTAGCCATAGA
65738 I
A TCATCCTCAGAAGTAGTAACAGAGCCTATCCTGGA
65738 P T
A CGCGCCGAGGTAATATGCATTGTGGGGAAGY
65738 P C
A ATGACGTGGCAGACCAATATGCATTGTGGGGAY
65738 T T
A TCTTCTTCCCCACAATGCATATTACCAGGATAGGCTCTGTTACTACTTCTGAGGATGATA
65738 T C
A TCTTCTTCCCCACAATGCATATTGCCAGGATAGGCTCTGTTACTACTTCTGAGGATGATA
CAAAGAGCAAACTATATTTCTATTTATCATCCTCAGAAGTAGTAACAGAGCCTATCCTGG[TC]AATATGCATTGTGGGG
65738 IS [TC]
AAGAAGAGGATACAATTGAACACAAGGCTATTTCAAATAATAGA
65825 I
S CCGTATGTTTTTGAGTGCATCTGGTGTGATGGGACT
65825 P G
S ATGACGTGGCAGACCTGTTCGGAGGCCTY
65825 P T
S CGCGCCGAGGATGTTCGGAGGCCTCY
65825 T G
S TGAGGAGGCCTCCGAACAGGTCCCATCACACCAGATGCACTCAAAAACATACGGTG
65825 T T
S TGAGGAGGCCTCCGAACATGTCCCATCACACCAGATGCACTCAAAAACATACGGTG
CAAGAGCCCACTGTGTGGGACAGTATCTTCGCTGCACAGCCCTGAGGAGGCCTCCGAACA[GT]GTCCCATCACACCA
65825 IS [GT]
GATGCACTCAAAAACATACGGTGTCATTTACCCCCATGTGCCTAGA
66002 I
A CACATTAGGGCATCTGTAACTTTTTATTACTTCAGTAAACCAAAGCATCATTTACTTT
66002 P G
A ATGACGTGGCAGACGTAGGTAAAGATATCTTACAAATATTGCY
66002 P C
A CGCGCCGAGGCTAGGTAAAGATATCTTACAAATATTGCY
GACTGCAATATTTGTAAGATATCTTTACCTACAAGTAAATGATGCTTTGGTTTACTGAAGTAATAAAAAGTTACAGATGC
66002 T G
A CCTAATGTGGT
GACTGCAATATTTGTAAGATATCTTTACCTAGAAGTAAATGATGCTTTGGTTTACTGAAGTAATAAAAAGTTACAGATGC
66002 T C
A CCTAATGTGGT
TACCACATTAGGGCATCTGTAACTTTTTATTACTTCAGTAAACCAAAGCATCATTTACTT[GC]TAGGTAAAGATATCTTA
66002 IS [GC]
CAAATATTGCAGTCTCTGCTAGTTCCCCAACTACTAAATTTTC
66125 I
A ACCAGGCTTTACTTATGCTAAAATACTGTGCGCT
66125 P G
A ATGACGTGGCAGACGGGTGGGGACTCAGY
66125 P A
A CGCGCCGAGGAGGTGGGGACTCAGY
66125 T G
A TGGGCTGAGTCCCCACCCGCGCACAGTATTTTAGCATAAGTAAAGCCTGGTTG
CEACAM4

FIGURE 129D

66125 T	A	A	TGGGCTGAGTCCCCACCTGCGCACAGTATTTTAGCATAAGTAAAGCCTGGTTG
			TCAGTGCTGTCCACAATGACAATTTCAACCAGGCTTTACTTATGCTAAAATACTGTGCGC[GA]GGTGGGGACTCAGCC
66125 IS	[GA]		CACACCAGGTAACATGCCTCAGCCCAGCCCCCGTTGGACAGCTGA
66245 I		S	GCCTTGCCAGACAGAGGAGGGTTAAGAAAGGAACA
66245 P	G	S	ATGACGTGGCAGACCGCTGACCCTGATATGY
66245 P	A	S	CGCGCCGAGGTGCTGACCCTGATATGCY
66245 T	G	S	GTTTGCATATCAGGGTCAGCGGTTCCTTTCTTAACCCTCCTCTGTCTGGCAAGGCTA
66245 T	A	S	GTTTGCATATCAGGGTCAGCAGTTCCTTTCTTAACCCTCCTCTGTCTGGCAAGGCTA
			CCATCTGATGCTGATAGAAAGGCAGGAAGCACTCGTGGCAGTTTGCATATCAGGGTCAGC[GA]GTTCCTTTCTTAACC
66245 IS	[GA]		CTCCTCTGTCTGGCAAGGCTAAGGGAGCAGACGTTCCTGTAATGA
67427 I		S	CGAGGGCCCCTGACTGCACGTC
67427 P	C	S	ATGACGTGGCAGACGTGTGGTTCCTTTCCAAY
67427 P	A	S	CGCGCCGAGGTTGTGGTTCCTTTCCAACY
67427 T	C	S	CCCTGTTGGAAAGGAACCACACACGTGCAGTCAGGGGCCCTCGGG
67427 T	A	S	CCCTGTTGGAAAGGAACCACAAACGTGCAGTCAGGGGCCCTCGGG
			GACAGGCCCAGCAGTAAGAGGACAGTCAGCAGCCAGTCTCCCTGTTGGAAAGGAACCACA[CA]ACGTGCAGTCAGGG
67427 IS	[CA]		GCCCTCGGGAGCCGCCCTGTGTCCACCCCTTCCTGATTCCACCCCC
67547 I		A	CAATTGCTGCACATTCTGACACTGAACATGTATGTGAAAAATCCC
67547 P	T	A	CGCGCCGAGGTGACGACACCATGGAAY
67547 P	A	A	ATGACGTGGCAGACAGACGACACCATGGAAY
67547 T	T	A	TTATTTCCATGGTGTCGTCAGGATTTTTCACATACATGTTCAGTGTCAGAATGTGCAGCAATTGTA
67547 T	A	A	TTATTTCCATGGTGTCGTCTGGATTTTTCACATACATGTTCAGTGTCAGAATGTGCAGCAATTGTA
			TTTTTCATGATATTTACAATTGCTGCACATTCTGACACTGAACATGTATGTGAAAAATCC[TA]GACGACACCATGGAAAT
67547 IS	[TA]		AAAGAATATTTTAAGCCAGGTGCTATGACACATGCCTGGAGTC
67563 I		A	GTTGCCTCTCTATTATCAGGAAAAGGAGGTGAGATTGAAAGATGAAAAT
67563 P	G	A	ATGACGTGGCAGACGTGCTGGGACTTCTGY
67563 P	A	A	CGCGCCGAGGATGCTGGGACTTCTGCY
67563 T	G	A	CTCAGCAGAAGTCCCAGCACTTTTCATCTTTCAATCTCACCTCCTTTTCCTGATAATAGAGAGGCAACAA
67563 T	A	A	CTCAGCAGAAGTCCCAGCATTTTTCATCTTTCAATCTCACCTCCTTTTCCTGATAATAGAGAGGCAACAA
			CCCTGAGTTCTTGTTGCCTCTCTATTATCAGGAAAAGGAGGTGAGATTGAAAGATGAAAA[GA]TGCTGGGACTTCTGC
67563 IS	[GA]		TGAGAAGAGAAAAAAGAACAAGATGTATTGATCTTACTGTGTGCC
67686 I		A	AGTGCACTGAGTAGCTGACAAGGAAATGGAAAAACCAATTT
67686 P	A	A	CGCGCCGAGGAATAGTAGTGGAGGCACAY
67686 P	G	A	ATGACGTGGCAGACGATAGTAGTGGAGGCACAY
67686 T	A	A	AAAATGTGCCTCCACTACTATTAATTGGTTTTTCCATTTCCTTGTCAGCTACTCAGTGCACTTC
67686 T	G	A	AAAATGTGCCTCCACTACTATCAATTGGTTTTTCCATTTCCTTGTCAGCTACTCAGTGCACTTC
			AAAAAAAAGCCTGTGCAAGAAGTGCACTGAGTAGCTGACAAGGAAATGGAAAAACCAATT[AG]ATAGTAGTGGAGGCA
67686 IS	[AG]		CATTTTAGGAAATAGGGCAGCCAAGACCCTAAGAAACAATTGCTT
67892 I		A	TCATTGTGCAGCACAGAAGTCAGGGATGTTATTATGGTCT
67892 P	G	A	ATGACGTGGCAGACGTGCCCTGAAAATAGCAY
67892 P	A	A	CGCGCCGAGGATGCCCTGAAAATAGCAAAY
67892 T	G	A	CTGTTTTGCTATTTTCAGGGCACGACCATAATAACATCCCTGACTTCTGTGCTGCACAATGACA
67892 T	A	A	CTGTTTTGCTATTTTCAGGGCATGACCATAATAACATCCCTGACTTCTGTGCTGCACAATGACA
			TCTGGGTTGGGGAATTCTTTGTCATTGTGCAGCACAGAAGTCAGGGATGTTATTATGGTC[GA]TGCCCTGAAAATAGC
67892 IS	[GA]		AAAACAGACAAACTAAGTTATAAAGAAGTCAAAGAGTGGGAAGAA
68011 I		A	GGGTCAAGTCCTCTTGGGCCTCCCTA
68011 P	C	A	ATGACGTGGCAGACCCTCCAGTCCTTCTCCY
68011 P	T	A	CGCGCCGAGGTCTCCAGTCCTTCTCCY
68011 T	C	A	TTAGGGAGAAGGACTGGAGGAGGGAGGCCCAAGAGGACTTGACCCCA
68011 T	T	A	TTAGGGAGAAGGACTGGAGAAGGGAGGCCCAAGAGGACTTGACCCCA
			CCAATGTGCAGCTAAGTTTGGAAATAGGTGGTATGGGGTCAAGTCCTCTTGGGCCTCCCT[CT]CTCCAGTCCTTCTCC
68011 IS	[CT]		CTAACCTCTAGCCCTCAAGTTGCAGAGTGATCAGCCAAACCAGTT
68043 I		S	GTGCCTCCCTGCTCGTCCCCCT
68043 P	G	S	CGCGCCGAGGCTCAAATCTGTGCTTGGAY
68043 P	C	S	ATGACGTGGCAGACGTCAAATCTGTGCTTGGAY
68043 T	G	S	CAACTCCAAGCACAGATTTGAGGGGGGACGAGCAGGGAGGCACAG
68043 T	C	S	CAACTCCAAGCACAGATTTGACGGGGGACGAGCAGGGAGGCACAG
			GAGAAAAGTTATTTCACTCTTCCTTTTCTAACTGGAAACCAACTCCAAGCACAGATTTGA[GC]GGGGGACGAGCAGGG
68043 IS	[GC]		AGGCACAGTAGATAAAGCCTGTGAGTTACTGCGCCCAGCGAGAAA
68045 I		A	GGCACAGAAGCCCTCTCCATAGCCTTCCTTTATGT
68045 P	A	A	CGCGCCGAGGATCCCCTAAAAGCTGCAY
68045 P	C	A	ATGACGTGGCAGACCTCCCCTAAAAGCTGCY
68045 T	A	A	GGCCTGCAGCTTTTAGGGGATCATAAAGGAAGGCTATGGAGAGGGCTTCTGTGCCAT
68045 T	C	A	GGCCTGCAGCTTTTAGGGGAGCATAAAGGAAGGCTATGGAGAGGGCTTCTGTGCCAT
			TGTCGGTCACCTACTGTCCCTGACATGGCACAGAAGCCCTCTCCATAGCCTTCCTTTATG[AC]TCCCCTAAAAGCTGC
68045 IS	[AC]		AGGCCTCTTTCCTGCAACTCTACTCTGCTGCCTGGCACTCCACAC
68079 I		S	CCCTTTTAGTGCTAGTCACAAAAATTATGATGACAAGAGTAATTAGATA
68079 P	A	S	CGCGCCGAGGTTGTCACAGATTTGGTGACY
68079 P	G	S	ATGACGTGGCAGACCTGTCACAGATTTGGTGACY
68079 T	A	S	TGCTGTCACCAAATCTGTGACAAATCTAATTACTCTTGTCATCATAATTTTTGTGACTAGCACTAAAAGGGTC
68079 T	G	S	TGCTGTCACCAAATCTGTGACAGATCTAATTACTCTTGTCATCATAATTTTTGTGACTAGCACTAAAAGGGTC
			GACCCACCCATGTTCTAAATTCTATACATTCTCATTGCTGCTGTCACCAAATCTGTGACA[AG]ATCTAATTACTCTTGTC
68079 IS	[AG]		ATCATAATTTTTGTGACTAGCACTAAAAGGGTCAACAGTATTC
68144 I		A	AGTGGGGTGTCATCCCTGCCCCATCT
68144 P	G	A	ATGACGTGGCAGACGAGCTCCTGTGAAAATCAGY
68144 P	A	A	CGCGCCGAGGAAGCTCCTGTGAAAATCAGY
68144 T	G	A	GCTACTGATTTTCACAGGAGCTCGATGGGGCAGGGATGACACCCCACTTA
68144 T	A	A	GCTACTGATTTTCACAGGAGCTTGATGGGGCAGGGATGACACCCCACTTA
			AGAGCCATTTAGCTATTACCCTCTGCTGTCTCCTAAGTGGGGTGTCATCCCTGCCCCATC[GA]AGCTCCTGTGAAAAT
68144 IS	[GA]		CAGTAGCATATGAGCATCTGCCAGTGAGCATCAAACAGTGGTAAC
68518 I		S	TTAATTATAGATTTTTTTGCTTTCTTTTAAGCTTATCTAAGCTTTTGTTTTTTAGAAACCT
68518 P	C	S	ATGACGTGGCAGACGTTGTGTTGATTTTGTGGTAAY
68518 P	T	S	CGCGCCGAGGATTGTGTTGATTTTGTGGTAAAY
			CACTTTTACCACAAAATCAACACAACGGTTTCTAAAAAACAAAAGCTTAGATAAGCTTAAAAGAAAGCAAAAAAATCTAT
68518 T	C	S	AATTAA
			CACTTTTACCACAAAATCAACACAATGGTTTCTAAAAAACAAAAGCTTAGATAAGCTTAAAAGAAAGCAAAAAAATCTAT
68518 T	T	S	AATTAA
			ATGACATCATAGATAGATAATAATGATTTGAGTTGCACTTTTACCACAAAATCAACACAA[CT]GGTTTCTAAAAAACAAA
68518 IS	[CT]		AGCTTAGATAAGCTTAAAAGAAAGCAAAAAAATCTATAATTAA
68535 I		S	CAGCATCTGATTTTCCCCTCATCACAGGGCTT
68535 P	G	S	CGCGCCGAGGCTCTCCACTGATCACACAY
68535 P	C	S	ATGACGTGGCAGACGTCTCCACTGATCACACAY
68535 T	G	S	TGACTGTGTGATCAGTGGAGAGAGCCCTGTGATGAGGGGAAAATCAGATGCTGAC
68535 T	C	S	TGACTGTGTGATCAGTGGAGACAGCCCTGTGATGAGGGGAAAATCAGATGCTGAC

FIGURE 129D


68535 tS [GC]
68709 I
68709 P C
68709 P G
68709 T C
68709 T G
68709 tS [CG]
68779 I
68779 P A
68779 P G
68779 T A
68779 T G
68779 tS [AG]
68817 I
68817 P C
68817 P G
68817 T C
68817 T G
68817 tS [CG]
69011 I
69011 P T
69011 P G
69011 T T
69011 T G
69011 tS [TG]
69142 I
69142 P A
69142 P G
69142 T A
69142 T G
69142 tS [AG]
69173 I
69173 P T
69173 P C
69173 T T
69173 T C
69173 tS [TC]
69182 I
69182 P A
69182 P C
69182 T A
69182 T C
69182 tS [AC]
75865 I
75865 P C
75865 P G
75865 T C
75865 T G
75865 tS [CG]
75889 I
75889 P G
75889 P A
75889 T G
75889 T A
75889 tS [GA]
76033 I
76033 P T
76033 P A
76033 T T
76033 T A
76033 tS [TA]
76084 I
76084 P T
76084 P G
76084 T T
76084 T G
76084 tS [TG]
76256 I
76256 P A
76256 P C
76256 T A
76256 T C

FIGURE 129D

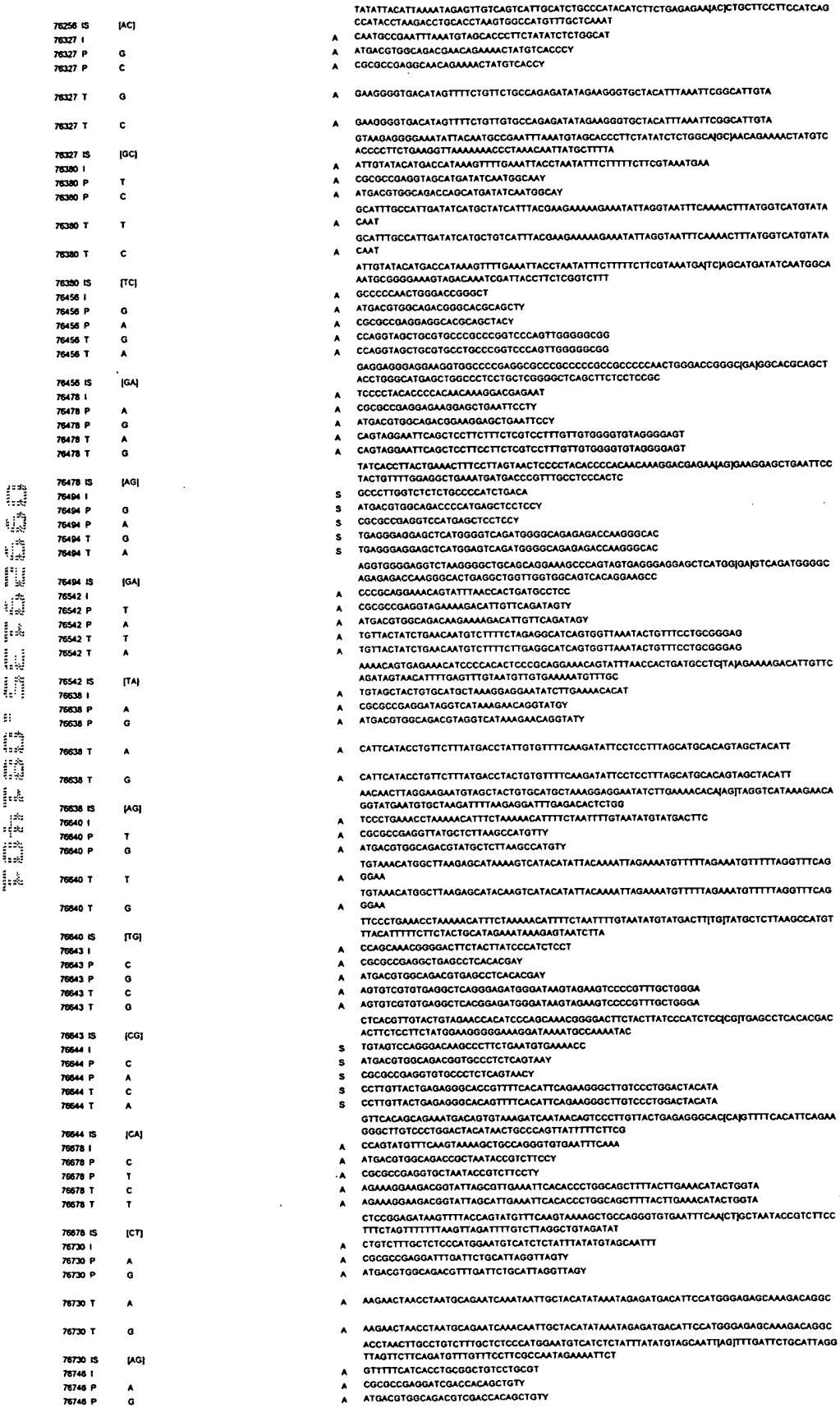
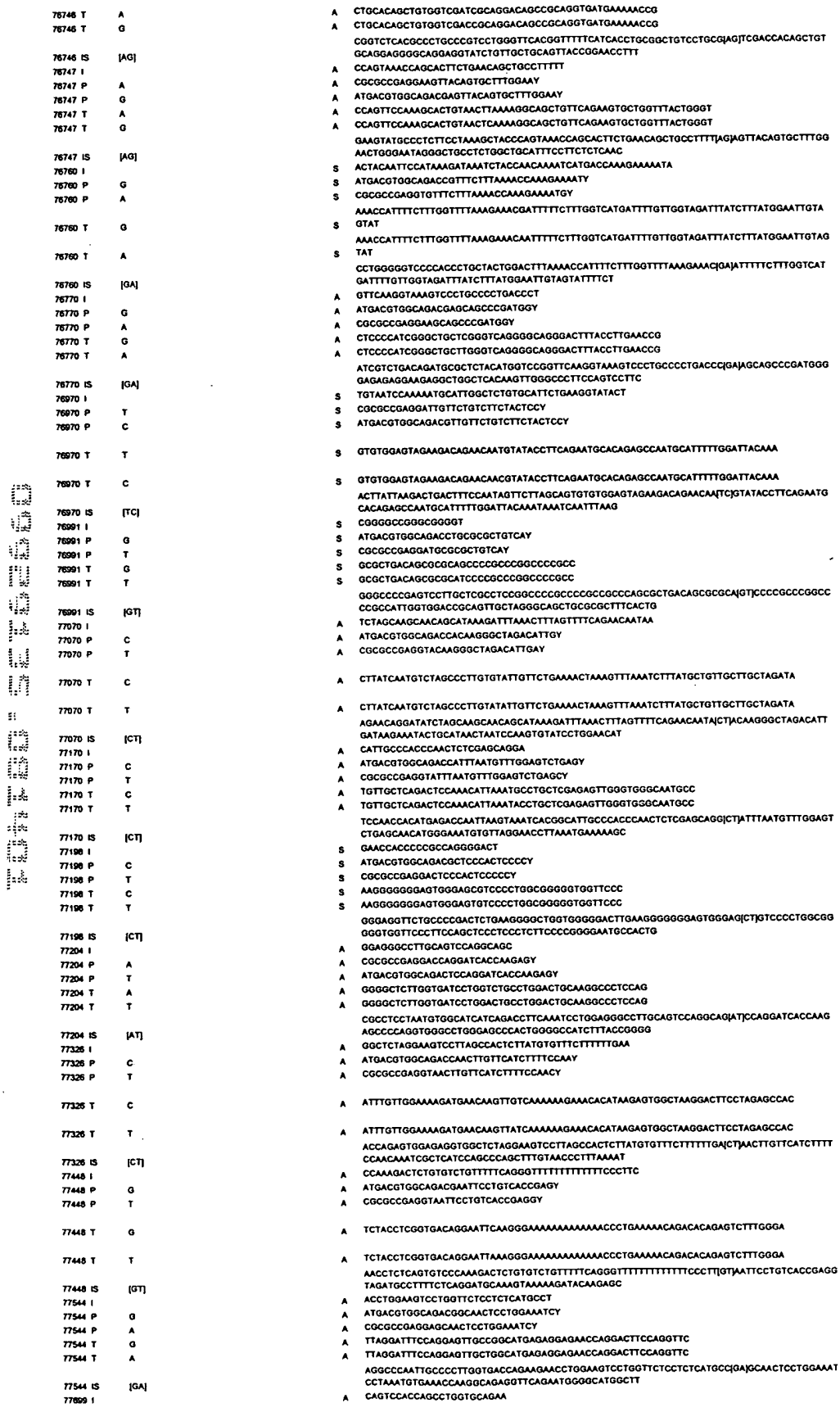


FIGURE 129D


76746 T A
76746 T G
76746 IS [AG]
76747 I
76747 P A
76747 P G
76747 T A
76747 T G
76747 IS [AG]
76760 I
76760 P G
76760 P A
76760 T G
76760 T A
76760 IS [GA]
76770 I
76770 P G
76770 P A
76770 T G
76770 T A
76770 IS [GA]
76970 I
76970 P T
76970 P C
76970 T T
76970 T C
76970 IS [TC]
76991 I
76991 P G
76991 P T
76991 T G
76991 T T
76991 IS [GT]
77070 I
77070 P C
77070 P T
77070 T C
77070 T T
77070 IS [CT]
77170 I
77170 P C
77170 P T
77170 T C
77170 T T
77170 IS [CT]
77198 I
77198 P C
77198 P T
77198 T C
77198 T T
77198 IS [CT]
77204 I
77204 P A
77204 P T
77204 T A
77204 T T
77204 IS [AT]
77326 I
77326 P C
77326 P T
77326 T C
77326 T T
77326 IS [CT]
77448 I
77448 P G
77448 P T
77448 T G
77448 T T
77448 IS [GT]
77544 I
77544 P G
77544 P A
77544 T G
77544 T A
77544 IS [GA]
77699 I

77699 P	T	A	CGCGCCGAGGTACCTGTTGTATCAGAGCTY
77699 P	C	A	ATGACGTGGCAGACCACCTGTTGTATCAGAGCY
77699 T	T	A	TCTGAGCTCTGATACAACAGGTATCTGCACCAGGCTGGTGGACTGAC
77699 T	C	A	TCTGAGCTCTGATACAACAGGTGTCTGCACCAGGCTGGTGGACTGAC
			TCTCCACCCTGGCCATTCACTAAGTTGTTTTAAAATGTCAGTCCACCAGCCTGGTGCAGA[TC]ACCTGTTGTATCAGAG
77699 IS	[TC]		CTCAGACTTGATCTCCTGCCCTTGATGAAGCACTGAGATGTTTA
77728 I		A	CCTTCCCGGAGTCTGGTTTAGGGCTGCT
77728 P	G	A	ATGACGTGGCAGACGTGCTCAAGAGTCTGGTY
77725 P	A	A	CGCGCCGAGGATGCTCAAGAGTCTGGTY
77728 T	G	A	CCAAACCAGACTCTTGAGCACGCAGCCCTAAACCAGACTCCGGGAAGGGG
77728 T	A	A	CCAAACCAGACTCTTGAGCATGCAGCCCTAAACCAGACTCCGGGAAGGGG
			TCTGAGTCTTAGGCGGTGCATGACCACGCAGCCCCTTCCCGGAGTCTGGTTTAGGGCTGC[GA]TGCTCAAGAGTCTG
77728 IS	[GA]		GTTTGGGGCTGGGTCTTCCCATCGCCCTGGAGGAGGCTTTTGTCTC
77801 I		S	CTTTTTGGCACAATGGTGCCACTGTCCA
77801 P	G	S	ATGACGTGGCAGACCCATAGTGTTATTTCTTTGGTCY
77801 P	A	S	CGCGCCGAGGTCATAGTGTTATTTCTTTGGTCAY
77801 T	G	S	TTCATGACCAAAGAAATAACACTATGGGGACAGTGGCACCATTGTGCCAAAAAGGT
77801 T	A	S	TTCATGACCAAAGAAATAACACTATGAGGACAGTGGCACCATTGTGCCAAAAAGGT
			GTGCCTTTCTCCTCTTACTGGAAGGGCCTGAAAATTCATGACCAAAGAAATAACACTATG[GA]GGACAGTGGCACCAT
77801 IS	[GA]		TGTGCCAAAAAGGTTTTAAAAAATGTTTGCCATGTTGAAAAGGAA
77849 I		S	CTGGGCTTAGCTGCTTGCTAACTTTGACCTTGAGA
77849 P	A	S	CGCGCCGAGGTGAAGAGTTAGCAGATGATTTAAY
77849 P	G	S	ATGACGTGGCAGACGGAAGAGTTAGCAGATGATTY
77849 T	A	S	CACTTTAAATCATCTGCTAACTCTTCACTCAAGGTCAAAGTTAGCAAGCAGCTAAGCCCAGCT
77849 T	G	S	CACTTTAAATCATCTGCTAACTCTTCGCTCAAGGTCAAAGTTAGCAAGCAGCTAAGCCCAGCT
			AATGGGCTAACCAGCATGAATTCTTTCTACTTTACACTTTAAATCATCTGCTAACTCTTC[AG]CTCAAGGTCAAAGTTAG
77849 IS	[AG]		CAAGCAGCTAAGCCCAGCTTTGAGTCCTGCTCCACAAAGTTTA
77885 I		S	GCGTGTCTCTCTCTCAACCACCTTCCCCA
77885 P	A	S	CGCGCCGAGGTCACCCACCTTCATCTCY
77885 P	G	S	ATGACGTGGCAGACCCACCCACCTTCATCTY
77885 T	A	S	AAGAGAGATGAAGGTGGGTGAGGGGAAGGTGGTTGAGAGAGAGACACGCGC
77885 T	G	S	AAGAGAGATGAAGGTGGGTGGGGGGAAGGTGGTTGAGAGAGAGACACGCGC
			GGATAGAAGGCAGACACTGCCAGCCCACCCTCGGCTGGGAAAGAGAGATGAAGGTGGGTG[AG]GGGGAAGGTGGTT
77885 IS	[AG]		GAGAGAGAGACACGCGCCCCGGCTCGGCCAGAGGCCCTCCTCGGGG
77922 I		A	GTAAGATCTTGGCCCTAAGACTTTCCTAAGCCGTTCACT
77922 P	A	A	CGCGCCGAGGATTCTGAAGCTCAAGAACTGY
77922 P	G	A	ATGACGTGGCAGACGTTCTGAAGCTCAAGAACTY
77922 T	A	A	AATCCAGTTCTTGAGCTTCAGAATGTGAACGGCTTAGGAAAGTCTTAGGGCCAAGATCTTACAA
77922 T	G	A	AATCCAGTTCTTGAGCTTCAGAACGTGAACGGCTTAGGAAAGTCTTAGGGCCAAGATCTTACAA
			AGTGCCCAATGATTGTCCACTTGTAAGATCTTGGCCCTAAGACTTTCCTAAGCCGTTCAC[AG]TTCTGAAGCTCAAGAA
77922 IS	[AG]		CTGGATTTTCCTTTCAGTGGATGAAATACAACTCAGCTGCTTAA
78125 I		S	CACAGAAGTCATACAGTAGGTCCAGCAAAAACAGAAGAGCC
78125 P	A	S	CGCGCCGAGGTGTACACCAAGGCTCATY
78125 P	T	S	ATGACGTGGCAGACAGTACACCAAGGCTCATY
78125 T	A	S	AAAAATGAGCCTTGGTGTACAGCTCTTCTGTTTTTGCTGGACCTACTGTATGACTTCTGTGTA
78125 T	T	S	AAAAATGAGCCTTGGTGTACTGCTCTTCTGTTTTTGCTGGACCTACTGTATGACTTCTGTGTA
			CCAGAGCTAGCTGCTTTTGCTTGCATGCCCTTTGGGTGCTAAAAATGAGCCTTGGTGTAC[AT]GCTCTTCTGTTTTTG
78125 IS	[AT]		CTGGACCTACTGTATGACTTCTGTGTAAATCTTGACAGTTGGCAA
78239 I		A	GAGGCACCGCCAAGTCGGGGAGATAT
78239 P	C	A	ATGACGTGGCAGACCAATCCCAAGAAGGGAAGY
78239 P	A	A	CGCGCCGAGGAAATCCCAAGAAGGGAAGY
78239 T	C	A	GGCCCTTCCCTTCTTGGGATTGTATCTCCCCGACTTGGCGGTGCCTCTG
78239 T	A	A	GGCCCTTCCCTTCTTGGGATTTTATCTCCCCGACTTGGCGGTGCCTCTG
			GAAGAACACATCCGCCGCCAGCAGAAGGAGGAACAGAGGCACCGCCAAGTCGGGGAGATA[CA]AATCCCAAGAAGG
78239 IS	[CA]		GAAGGGCCATGGGCGGCTTCTGGAGCCCGGCACTCATCAGTTTGCCA
78260 I		S	GCCGGCACATCAACTCTCCAGGTCGTTTC
78260 P	A	S	CGCGCCGAGGTGTAGCCTCTCCTCTAAGY
78260 P	T	S	ATGACGTGGCAGACAGTAGCCTCTCCTCTAAGTY
78260 T	A	S	AGCAACTTAGAGGAGAGGCTACAAAACGACCTGGAGAGTTGATGTGCCGGCTC
78260 T	T	S	AGCAACTTAGAGGAGAGGCTACTAAACGACCTGGAGAGTTGATGTGCCGGCTC
			GATACATTTCTCATATTTGTGCGGGGTCAAATGGTAACAGCAACTTAGAGGAGAGGCTAC[AT]AAACGACCTGGAGAG
78260 IS	[AT]		TTGATGTGCCGGCTCGGCCTCCCCCAGCTGTGCATGCAAACCCCC
78265 I		S	AGGGGCCGGGCCCAGTATCTTCAA
78265 P	A	S	CGCGCCGAGGTTGGGGTGTGTACCGY
78265 P	G	S	ATGACGTGGCAGACCTGGGGTGTGTACCGY
78265 T	A	S	ATCCCGGTACACACCCCAATGAAGATACTGGGCCCGGCCCCTGT
78265 T	G	S	ATCCCGGTACACACCCCAGTGAAGATACTGGGCCCGGCCCCTGT
			TTGCCATGCACAGCCCATGGGGAGGGAGTGGTGCTGGTATATATCCCGGTACACACCCCA[AG]TGAAGATACTGGGC
78265 IS	[AG]		CCGGCCCCTGTAGTGCCCAGGGGCTAAAGCAATAGAGGGGATTGCT
78284 I		A	TGGTTACAATGGTGCAGATCATCTGCTCCTGGAAT
78284 P	A	A	CGCGCCGAGGAAACAAAGTCTATGCCCTCY
78284 P	G	A	ATGACGTGGCAGACGAACAAAGTCTATGCCCTCY
78284 T	A	A	TCTGGAGGGCATAGACTTTGTTTTTCCAGGAGCAGATGATCTGCACCATTGTAACCATT
78284 T	G	A	TCTGGAGGGCATAGACTTTGTTCTTCCAGGAGCAGATGATCTGCACCATTGTAACCATT
			TTGGTCACAGTAGCAATAACTGACAATGGTTACAATGGTGCAGATCATCTGCTCCTGGAA[AG]AACAAAGTCTATGCC
78284 IS	[AG]		CTCCAGATTAATGGAATCACCTCCAAAACCCCTGCATTGTATCTC
78467 I		A	GTCGGCATTCGGGCCTCCACTTCACT
78467 P	A	A	CGCGCCGAGGAGACTGCTCTGCTTCATY
78467 P	G	A	ATGACGTGGCAGACGGACTGCTCTGCTTCAY
78467 T	A	A	GTCCATGAAGCAGAGCAGTCTGTGAAGTGGAGGCCCGAATGCCGACCA
78467 T	G	A	GTCCATGAAGCAGAGCAGTCCGTGAAGTGGAGGCCCGAATGCCGACCA
			CAGATCTAGATAATGTAACAGGTATCCACATTTTGGTCGGCATTCGGGCCTCCACTTCAC[AG]GACTGCTCTGCTTCA
78467 IS	[AG]		TGGACATTTCCGTGGACACATTCCCTGTCCACTGACCCTGCACCT
78572 I		A	GTGCAGGAAGGCTCTGGGGGATAATTA
78572 P	T	A	CGCGCCGAGGTGGTTTTACTGTGAAATGTTTCY
78572 P	C	A	ATGACGTGGCAGACCGGTTTTACTGTGAAATGTTTY
78572 T	T	A	AAAAGAAACATTTCACAGTAAAACCAAATTATCCCCCAGAGCCTTCCTGCACTG
78572 T	C	A	AAAAGAAACATTTCACAGTAAAACCGAATTATCCCCCAGAGCCTTCCTGCACTG
			TGTTAGGGGAATTGCTTTAGAGGAGAATATTACAGTGCAGGAAGGCTCTGGGGGATAATT[TC]GGTTTTACTGTGAAA
78572 IS	[TC]		TGTTTCTTTTCTTTCACCAAAAGATGGCAGTAACCTCCATCCAAC
80562 I		S	CGTTTGTGTTTGGGCCTCAGCTGAGCACC
80562 P	A	S	CGCGCCGAGGTGAGGATATAAAGTAGGAACAAGY
80562 P	C	S	ATGACGTGGCAGACGGAGGATATAAAGTAGGAACAAGY
80562 T	A	S	AAGTCTTGTTCCTACTTTATATCCTCAGTGCTCAGCTGAGGCCCAAACACAAACGGG
80562 T	C	S	AAGTCTTGTTCCTACTTTATATCCTCCGTGCTCAGCTGAGGCCCAAACACAAACGGG
			GGCTGGGATCTCAGGCCCTGGCATCAGAGCTTTCAAGTCTTGTTCCTACTTTATATCCTC[AC]GTGCTCAGCTGAGGC
80562 IS	[AC]		CCAAACACAAACGGGACCCCATCCCCAAGCCCAGGCCTGCCCTGA
80564 I		S	GGGAAGGGAGAAGCAGACATAGTCATTTATGATTTGAAAGTTGGAAT
80564 P	T	S	CGCGCCGAGGATTTGTACCATCTGTTTGAGTY

FIGURE 129D

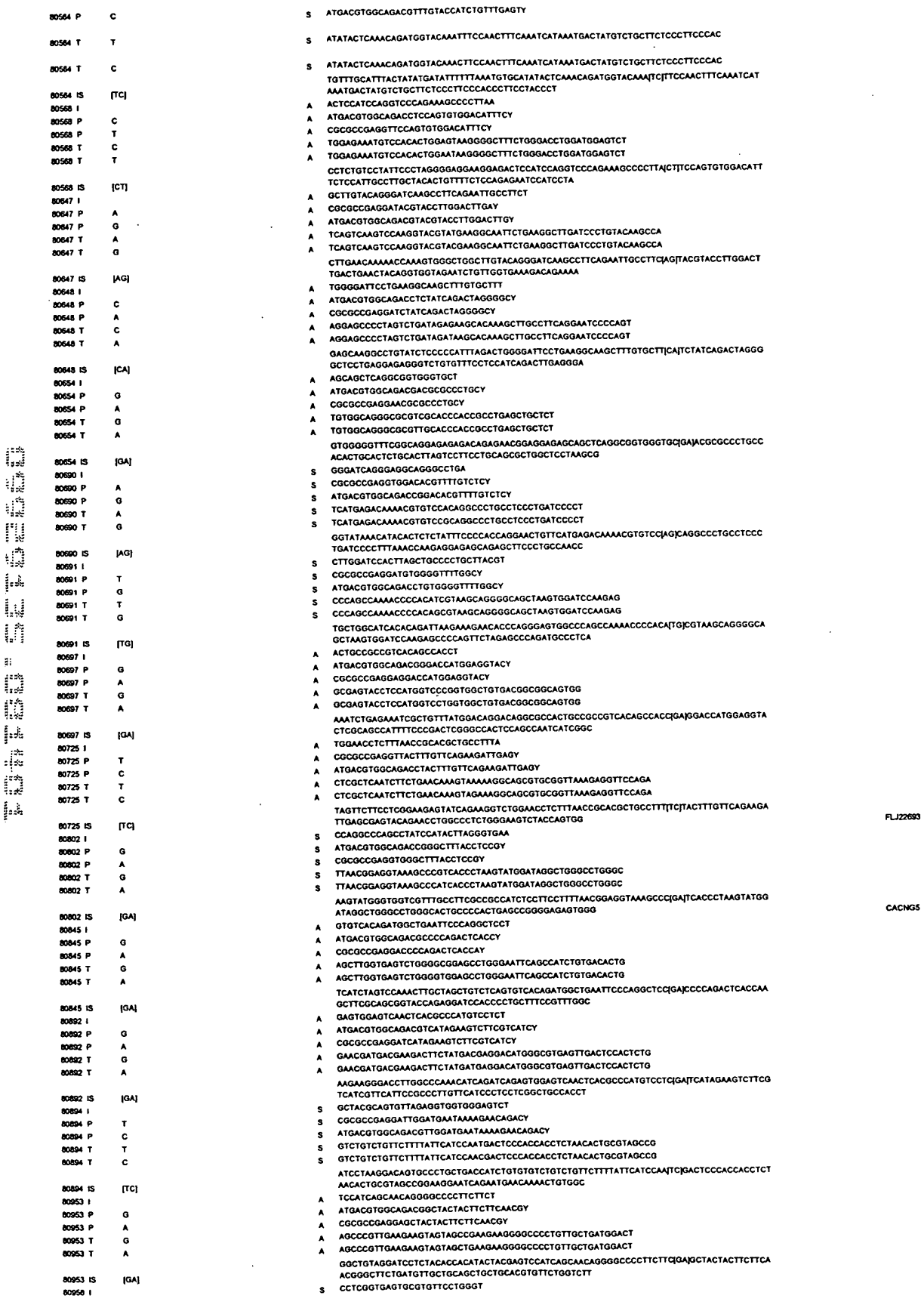

80564 P C
S ATGACGTGGCAGACGTTTGTACCATCTGTTTGAGTY
80564 T T
S ATATACTCAAACAGATGGTACAAATTTCCAACTTTCAAATCATAAATGACTATGTCTGCTTCTCCCTTCCCAC
80564 T C
S ATATACTCAAACAGATGGTACAAACTTCCAACTTTCAAATCATAAATGACTATGTCTGCTTCTCCCTTCCCAC
TGTTTGCATTTACTATATGATATTTTTTAAATGTGCATATACTCAAACAGATGGTACAAA[TC]TTCCAACTTTCAAATCAT
80564 IS [TC] AAATGACTATGTCTGCTTCTCCCTTCCCACCCTTCCTACCCT
80568 I
A ACTCCATCCAGGTCCCAGAAAGCCCCTTAA
80568 P C
A ATGACGTGGCAGACCTCCAGTGTGGACATTTCY
80568 P T
A CGCGCCGAGGTTCCAGTGTGGACATTTCY
80568 T C
A TGGAGAAATGTCCACACTGGAGTAAGGGGCTTTCTGGGACCTGGATGGAGTCT
80568 T T
A TGGAGAAATGTCCACACTGGAATAAGGGGCTTTCTGGGACCTGGATGGAGTCT
CCTCTGTCCTATTCCCTAGGGGAGGAAGGAGACTCCATCCAGGTCCCAGAAAGCCCCTTA[CT]TCCAGTGTGGACATT
80568 IS [CT] TCTCCATTGCCTTGCTACACTGTTTTCTCCAGAGAATCCATCCTA
80647 I
A GCTTGTACAGGGATCAAGCCTTCAGAATTGCCTTCT
80647 P A
A CGCGCCGAGGATACGTACCTTGGACTTGAY
80647 P G
A ATGACGTGGCAGACGTACGTACCTTGGACTTGY
80647 T A
A TCAGTCAAGTCCAAGGTACGTATGAAGGCAATTCTGAAGGCTTGATCCCTGTACAAGCCA
80647 T G
A TCAGTCAAGTCCAAGGTACGTACGAAGGCAATTCTGAAGGCTTGATCCCTGTACAAGCCA
CTTGAACAAAAACCAAAGTGGGCTGGCTTGTACAGGGATCAAGCCTTCAGAATTGCCTTC[AG]TACGTACCTTGGACT
80647 IS [AG] TGACTGAACTACAGGTGGTAGAATCTGTTGGTGAAAGACAGAAAA
80648 I
A TGGGGATTCCTGAAGGCAAGCTTTGTGCTTT
80648 P C
A ATGACGTGGCAGACCTCTATCAGACTAGGGGCY
80648 P A
A CGCGCCGAGGATCTATCAGACTAGGGGCY
80648 T C
A AGGAGCCCCTAGTCTGATAGAGAAGCACAAAGCTTGCCTTCAGGAATCCCCAGT
80648 T A
A AGGAGCCCCTAGTCTGATAGATAAGCACAAAGCTTGCCTTCAGGAATCCCCAGT
GAGCAAGGCCTGTATCTCCCCCATTTAGACTGGGGATTCCTGAAGGCAAGCTTTGTGCTT[CA]TCTATCAGACTAGGG
80648 IS [CA] GCTCCTGAGGAGAGGGTCTGTGTTTCCTCCATCAGACTTGAGGGA
80654 I
A AGCAGCTCAGGCGGTGGGTGCT
80654 P G
A ATGACGTGGCAGACGACGCGCCCTGCY
80654 P A
A CGCGCCGAGGAACGCGCCCTGCY
80654 T G
A TGTGGCAGGGCGCGTCGCACCCACCGCCTGAGCTGCTCT
80654 T A
A TGTGGCAGGGCGCGTTGCACCCACCGCCTGAGCTGCTCT
GTGGGGGTTTCGGCAGGAGAGAGACAGAGAACGGAGGAGAGCAGCTCAGGCGGTGGGTGC[GA]ACGCGCCCTGCC
80654 IS [GA] ACACTGCACTCTGCACTTAGTCCTTCCTGCAGCGCTGGCTCCTAAGCG
80690 I
S GGGATCAGGGAGGCAGGGCCTGA
80690 P A
S CGCGCCGAGGTGGACACGTTTTGTCTCY
80690 P G
S ATGACGTGGCAGACCGGACACGTTTTGTCTCY
80690 T A
S TCATGAGACAAAACGTGTCCACAGGCCCTGCCTCCCTGATCCCCT
80690 T G
S TCATGAGACAAAACGTGTCCGCAGGCCCTGCCTCCCTGATCCCCT
GGTATAAACATACACTCTCTATTTCCCCACCAGGAACTGTTCATGAGACAAAACGTGTCC[AG]CAGGCCCTGCCTCCC
80690 IS [AG] TGATCCCCTTTAAACCAAGAGGAGAGCAGAGCTTCCCTGCCAACC
80691 I
S CTTGGATCCACTTAGCTGCCCCTGCTTACGT
80691 P T
S CGCGCCGAGGATGTGGGGTTTTGGCY
80691 P G
S ATGACGTGGCAGACCTGTGGGGTTTTGGCY
80691 T T
S CCCAGCCAAAACCCCACATCGTAAGCAGGGGCAGCTAAGTGGATCCAAGAG
80691 T G
S CCCAGCCAAAACCCCACAGCGTAAGCAGGGGCAGCTAAGTGGATCCAAGAG
TGCTGGCATCACACAGATTAAGAAAGAACACCCAGGGAGTGGCCCAGCCAAAACCCCACA[TG]CGTAAGCAGGGGCA
80691 IS [TG] GCTAAGTGGATCCAAGAGCCCCAGTTCTAGAGCCCAGATGCCCTCA
80697 I
A ACTGCCGCCGTCACAGCCACCT
80697 P G
A ATGACGTGGCAGACGGGACCATGGAGGTACY
80697 P A
A CGCGCCGAGGAGGACCATGGAGGTACY
80697 T G
A GCGAGTACCTCCATGGTCCCGGTGGCTGTGACGGCGGCAGTGG
80697 T A
A GCGAGTACCTCCATGGTCCTGGTGGCTGTGACGGCGGCAGTGG
AAATCTGAGAAATCGCTGTTTATGGACAGGACAGGCGCCACTGCCGCCGTCACAGCCACC[GA]GGACCATGGAGGTA
80697 IS [GA] CTCGCAGCCATTTTCCCGACTCGGGCCACTCCAGCCAATCATCGGC
80725 I
A TGGAACCTCTTTAACCGCACGCTGCCTTTA
80725 P T
A CGCGCCGAGGTTACTTTGTTCAGAAGATTGAGY
80725 P C
A ATGACGTGGCAGACCTACTTTGTTCAGAAGATTGAGY
80725 T T
A CTCGCTCAATCTTCTGAACAAAGTAAAAAGGCAGCGTGCGGTTAAAGAGGTTCCAGA
80725 T C
A CTCGCTCAATCTTCTGAACAAAGTAGAAAGGCAGCGTGCGGTTAAAGAGGTTCCAGA
TAGTTCTTCCTCGGAAGAGTATCAGAAGGTCTGGAACCTCTTTAACCGCACGCTGCCTTTT[TC]TACTTTGTTCAGAAGA
80725 IS [TC] TTGAGCGAGTACAGAACCTGGCCCTCTGGGAAGTCTACCAGTGG FLJ22693
80802 I
S CCAGGCCCAGCCTATCCATACTTAGGGTGAA
80802 P G
S ATGACGTGGCAGACCGGGCTTTACCTCCGY
80802 P A
S CGCGCCGAGGTGGGCTTTACCTCCGY
80802 T G
S TTAACGGAGGTAAAGCCCGTCACCCTAAGTATGGATAGGCTGGGCCTGGGC
80802 T A
S TTAACGGAGGTAAAGCCCATCACCCTAAGTATGGATAGGCTGGGCCTGGGC
AAGTATGGGTGGTCGTTTGCCTTCGCCGCCATCTCCTTCCTTTTAACGGAGGTAAAGCCC[GA]TCACCCTAAGTATGG
80802 IS [GA] ATAGGCTGGGCCTGGGCACTGCCCCACTGAGCCGGGGAGAGTGGG CACNG5
80845 I
A GTGTCACAGATGGCTGAATTCCCAGGCTCCT
80845 P G
A ATGACGTGGCAGACGCCCCAGACTCACCY
80845 P A
A CGCGCCGAGGACCCCAGACTCACCAY
80845 T G
A AGCTTGGTGAGTCTGGGGCGGAGCCTGGGAATTCAGCCATCTGTGACACTG
80845 T A
A AGCTTGGTGAGTCTGGGGTGGAGCCTGGGAATTCAGCCATCTGTGACACTG
TCATCTAGTCCAAACTTGCTAGCTGTCTCAGTGTCACAGATGGCTGAATTCCCAGGCTCC[GA]CCCCAGACTCACCAA
80845 IS [GA] GCTTCGCAGCGGTACCAGAGGATCCACCCCTGCTTTCCGTTTGGC
80892 I
A GAGTGGAGTCAACTCACGCCCATGTCCTCT
80892 P G
A ATGACGTGGCAGACGTCATAGAAGTCTTCGTCATCY
80892 P A
A CGCGCCGAGGATCATAGAAGTCTTCGTCATCY
80892 T G
A GAACGATGACGAAGACTTCTATGACGAGGACATGGGCGTGAGTTGACTCCACTCTG
80892 T A
A GAACGATGACGAAGACTTCTATGATGAGGACATGGGCGTGAGTTGACTCCACTCTG
AAGAAGGGACCTTGGCCCAAACATCAGATCAGAGTGGAGTCAACTCACGCCCATGTCCT[CG]ATCATAGAAGTCTTCG
80892 IS [GA] TCATCGTTCATTCCGCCCTTGTTCATCCCTCCTCGGCTGCCACCT
80894 I
S GCTACGCAGTGTTAGAGGTGGTGGGAGTCT
80894 P T
S CGCGCCGAGGATTGGATGAATAAAAGAACAGACY
80894 P C
S ATGACGTGGCAGACGTTGGATGAATAAAAGAACAGACY
80894 T T
S GTCTGTCTGTTCTTTTATTCATCCAATGACTCCCACCACCTCTAACACTGCGTAGCCG
80894 T C
S GTCTGTCTGTTCTTTTATTCATCCAACGACTCCCACCACCTCTAACACTGCGTAGCCG
ATCCTAAGGACAGTGCCCTGCTGACCATCTGTGTGTCTGTCTGTTCTTTTATTCATCCAA[TC]GACTCCCACCACCTCT
80894 IS [TC] AACACTGCGTAGCCGGAAGGAATCAGAATGAACAAAACTGTGGC
80953 I
A TCCATCAGCAACAGGGGCCCCTTCTTCT
80953 P G
A ATGACGTGGCAGACGGCTACTACTTCTTCAACGY
80953 P A
A CGCGCCGAGGAGCTACTACTTCTTCAACGY
80953 T G
A AGCCCGTTGAAGAAGTAGTAGCCGAAGAAGGGGCCCCTGTTGCTGATGGACT
80953 T A
A AGCCCGTTGAAGAAGTAGTAGCTGAAGAAGGGGCCCCTGTTGCTGATGGACT
GGCTGTAGGATCCTCTACACCACATACTACGAGTCCATCAGCAACAGGGGCCCCTTCTT[CG]AGCTACTACTTCTTCA
80953 IS [GA] ACGGGCTTCTGATGTTGCTGCAGCTGCTGCACGTGTTCTGGTCTT
80958 I
S CCTCGGTGAGTGCGTGTTCCTGGGT

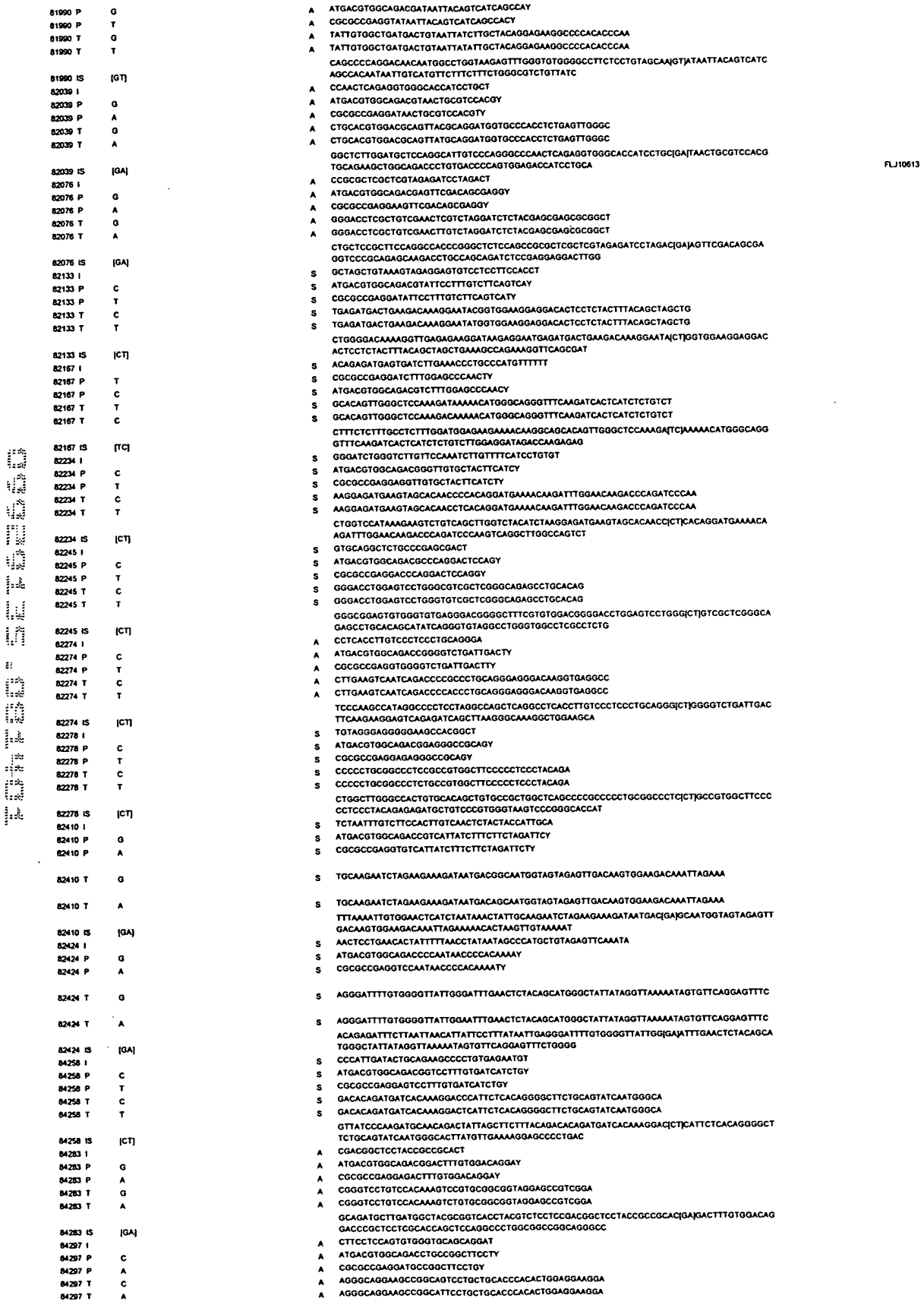
FIGURE 129D

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80958 P    T     S  CGCGCCGAGGACTGGGAGGAATTGGTY
80958 P    C     S  ATGACGTGGCAGACGCTGGGAGGAATTGGTY
80958 T    T     S  AGTGACCAATTCCTCCCAGTCCCAGGAACACGCACTCACCGAGGCT
80958 T    C     S  AGTGACCAATTCCTCCCAGCCCCAGGAACACGCACTCACCGAGGCT
                    ACCCCAATCGGGGGACACAAGCTGCCCCCAGGCCCCCTGGAAGTGACCAATTCCTCCCAG[TC]CCCAGGAACACGCA
80958 IS   [TC]      CTCACCGAAGGCTTTGCACACGGAGTCCGCGTGAAATCGACTAAAAT
80959 I            S  CCTCGCCTCGGACCTTGCCTGGT
80959 P    G       S  ATGACGTGGCAGACCGCTATTTTTGCAGGGAY
80959 P    T       S  CGCGCCGAGGAGCTATTTTTGCAGGGAGY
80959 T    G       S  CCAGCTCCCTGCAAAAATAGCGCCAGGCAAGGTCCGAGGCGAGGGC
80959 T    T       S  CCAGCTCCCTGCAAAAATAGCTCCAGGCAAGGTCCGAGGCGAGGGC
                    CAATATGGAGAGCACTCAGGTCCGAGGCGTTCCTGCTCCCCAGCTCCCTGCAAAAATAGC[GT]CCAGGCAAGGTCCG
80959 IS   [GT]      AGGCGAGGGCGATGCTTCCATGAGGGTCCCGCCGACTGCGTCGCGA                                    MGC2633
80996 I            A  CATTTACTCACGGAGCGGGCCTGCGC
80996 P    T       A  CGCGCCGAGGTGAGGGCTGGACCAY
80996 P    G       A  ATGACGTGGCAGACGGAGGGCTGGACCY
80996 T    T       A  GCACTGGTCCAGCCCTCACGCAGGCCCGCTCCGTGAGTAAATGGC
80996 T    G       A  GCACTGGTCCAGCCCTCCCGCAGGCCCGCTCCGTGAGTAAATGGC
                    CCTTCCTCCACTGCATTCCTGCAAGAGAAGAGAGCCATTTACTCACGGAGCGGGCCTGCG[TG]GAGGGCTGGACCAG
80996 IS   [TG]      TGCATCGGTTGCTGCAAGGGGCAGTGGTGACTCGCCCAGATTGATG
81220 I            A  AGAGGGGAGTGATCTCATCGCCACTGATTTTTCCA
81220 P    C       A  ATGACGTGGCAGACCAACTTTCAGTTTTGTATCTCCY
81220 P    T       A  CGCGCCGAGGTAACTTTCAGTTTTGTATCTCCAY
81220 T    C       A  ACCATGGAGATACAAAACTGAAAGTTGGGAAAAATCAGTGGCGATGAGATCACTCCCCTCTGT
81220 T    T       A  ACCATGGAGATACAAAACTGAAAGTTAGGAAAAATCAGTGGCGATGAGATCACTCCCCTCTGT
                    CAGTCCCCTGAAATGGAAAGACACACAGAGGGGAGTGATCTCATCGCCACTGATTTTTCC[CT]AACTTTCAGTTTTGTA
81220 IS   [CT]      TCTCCATGGTGGAACTCGATACAGCAGCATCCCTCAGTGGTTCC
81256 I            A  TGCGCAGCCACAACTAGAAAGAAAATAGGGA
81256 P    C       A  ATGACGTGGCAGACCGCCTGTTTAAAGCAAATGY
81256 P    T       A  CGCGCCGAGGTGCCTGTTTAAAGCAAATGY
81256 T    C       A  TTTTCATTTGCTTTAAACAGGCGCCCTATTTTCTTTCTAGTTGTGGCTGCGCAAA
81256 T    T       A  TTTTCATTTGCTTTAAACAGGCACCCTATTTTCTTTCTAGTTGTGGCTGCGCAAA
                    AGCACATCTTATTTGGGAGATAAATGTTTTTGCGCAGCCACAACTAGAAAGAAAATAGGG[CT]GCCTGTTTAAAGCAAA
81256 IS   [CT]      TGAAAATAGGCAGAATTATTAGGAAGATCAGGCACCTTCTATTT
81284 I            S  GCACAGGATGGGTTTCTGCAGCTCATTTAGCTT
81284 P    T       S  CGCGCCGAGGAGAAAGTGAGTCCACACTY
81284 P    C       S  ATGACGTGGCAGACGGAAAGTGAGTCCACACY
81284 T    T       S  TTCTAGTGTGGACTCACTTTCTAGCTAAATGAGCTGCAGAAACCCATCCTGTGCTC
81284 T    C       S  TTCTAGTGTGGACTCACTTTCCAGCTAAATGAGCTGCAGAAACCCATCCTGTGCTC
                    CCACACCTGCCAAGAGGAAACTGGT[T]TGTCAGGGGCTCATTCTAGTGTGGACTCACTTTC[TC]AGCTAAATGAGCTGC
81284 IS   [TC]      AGAAACCCATCCTGTGCTCCCTAGTAACCTGGCCACACCCAGTAA
81293 I            A  GCAGCTCACTATCCTCCACTAGTCCCAGGTTTC
81293 P    G       A  ATGACGTGGCAGACGACCGTTTCTCAAACCGY
81293 P    T       A  CGCGCCGAGGTACCGTTTCTCAAACCGY
81293 T    G       A  GGCACGGTTTGAGAAACGGTCAAACCTGGGACTAGTGGAGGATAGTGAGCTGCCG
81293 T    T       A  GGCACGGTTTGAGAAACGGTAAAACCTGGGACTAGTGGAGGATAGTGAGCTGCCG
                    TAGCTGACCCAGTCGGCCACCGTAGTCGGCAGCTCACTATCCTCCACTAGTCCCAGGTTT[GT]ACCGTTTCTCAAACC
81293 IS   [GT]      GTGCCTTCCCATTTATGCTGCATCCGCGCCCTGAATCTGAAATTG
81427 I            A  CCAGGGGTACTGGAACGAGGGGCGA
81427 P    C       A  ATGACGTGGCAGACCGCCGTGGCCAY
81427 P    T       A  CGCGCCGAGGTGCCGTGGCCAGY
81427 T    C       A  CCCCCTGGCCACGGCGCGCCCCTCGTTCCAGTACCCCTGGCA
81427 T    T       A  CCCCCTGGCCACGGCACGCCCCTCGTTCCAGTACCCCTGGCA
                    GCTGAGTGCGGCCCCCCAGCACGCTAAGAGCCGCTGCCAGGGGTACTGGAACGAGGGGCG[CT]GCCGTGGCCAGG
81427 IS   [CT]      GGGGACAGACGCCTACTCACGGGGCAGCAGCTAGCTCAGGAAATCAAG                                  ZNF179
81466 I            A  CACAAAGGGGAGGCTGGCCACCAT
81466 P    G       A  ATGACGTGGCAGACGGATGATGGTGAGCACY
81466 P    A       A  CGCGCCGAGGAGATGATGGTGAGCACAY
81466 T    G       A  CGTTTGTGCTCACCATCATCCTGGTGGCCAGCCTCCCCTTTGTGCA
81466 T    A       A  CGTTTGTGCTCACCATCATCTTGGTGGCCAGCCTCCCCTTTGTGCA
                    CCTGGGTCCCCAGCAGGCTCCGTTTCTTGGTGTCCTGCACAAAGGGGAGGCTGGCCACCA[GA]GATGATGGTGAGC
81466 IS   [GA]      ACAAACGTGGTGACAATGCCCGCCCCAGCCACGGCCTCCAGGACGAT                                   GPRC5C
81528 I            A  GCCAGCCTGGGTGGCCCCTTT
81528 P    G       A  ATGACGTGGCAGACGAACAGAGCCAGCAGTY
81528 P    A       A  CGCGCCGAGGAAACAGAGCCAGCAGTY
81528 T    G       A  ACTAACTGCTGGCTCTGTTCAAGGGGCCACCCAGGCTGGCCT
81528 T    A       A  ACTAACTGCTGGCTCTGTTTAAGGGGCCACCCAGGCTGGCCT
                    AACTTGCCAAAAGGCCAAAGCCAAGCTTAAGCCCAGTGAGGCCAGCCTGGGTGGCCCCTT[GA]AACAGAGCCAGCAG
81528 IS   [GA]      TTAGTTGTGTGGGGAGGGCTCCTGACACGGGGGCAGGGGAAGGAGC
81543 I            A  GGGAAGACCGAGGCCGAATTGCAGGA
81543 P    C       A  ATGACGTGGCAGACCTCCTCCTGGGGCY
81543 P    T       A  CGCGCCGAGGTTCCTCCTGGGGCY
81543 T    C       A  TTTGGCCCCAGGAGGAGCCTGCAATTCGGCCTCGGTCTTCCCAG
81543 T    T       A  TTTGGCCCCAGGAGGAACCTGCAATTCGGCCTCGGTCTTCCCAG
                    CTTACTGTGCTGTATCCCCATGGGCGGCACACGCTGGGAAGACCGAGGCCGAATTGCAGG[CT]TCCTCCTGGGGCC
81543 IS   [CT]      AAATGCTGTCATCTCTGAAGGCCAGGTATCCCCGAGATGGACGAGCA                                   TDGF1
81559 I            S  CCAGGAGCCCAGCAAGCCACCAT
81559 P    C       S  ATGACGTGGCAGACGAAGCACCCTTCAATAGGY
81559 P    T       S  CGCGCCGAGGAAAGCACCCTTCAATAGGY
81559 T    C       S  CTTCCCTATTGAAGGGTGCTTCTGGTGGCTTGCTGGGCTCCTGGGA
81559 T    T       S  CTTCCCTATTGAAGGGTGCTTTTGGTGGCTTGCTGGGCTCCTGGGA
                    CCAGGGTTCTATTGGGTAGGGGTGGGTCGGATTCGAATCCTTCCCTATTGAAGGGTGCTT[CT]TGGTGGCTTGCTGG
81559 IS   [CT]      GCTCCTGGGACGGGCACTGTGCATTTTAATTGCTTTATCTAGGAGG
81562 I            A  CCCCTTCTACCCCAACACTCGACTATCACTCTTGT
81562 P    G       A  ATGACGTGGCAGACGCCCTGAAAATTCTACCAY
81562 P    A       A  CGCGCCGAGGACCCTGAAAATTCTACCAGY
81562 T    G       A  TGGCCTGGTAGAATTTTCAGGGCCAAGAGTGATAGTCGAGTGTTGGGGTAGAAGGGGCC
81562 T    A       A  TGGCCTGGTAGAATTTTCAGGGTCAAGAGTGATAGTCGAGTGTTGGGGTAGAAGGGGCC
                    TCAGTGAGTCCAAACCTGGGCCCAGGCCCCTTCTACCCCAACACTCGACTATCACTCTTG[GA]CCCTGAAAATTCTAC
81562 IS   [GA]      CAGGCCAGGGCATTATTCTCCGGAGGCCTCAAACTAGCATCCTCA
81577 I            S  CAGGAGAAACAGGAAGGACAGAGCTGGGGT
81577 P    C       S  ATGACGTGGCAGACGCAGGAGGAACAGGAY
81577 P    T       S  CGCGCCGAGGACAGGAGGAACAGGACY
81577 T    C       S  CTCCGTCCTGTTCCTCCTGCCCCCAGCTCTGTCCTTCCTGTTTCTCCTGCC
81577 T    T       S  CTCCGTCCTGTTCCTCCTGTCCCCAGCTCTGTCCTTCCTGTTTCTCCTGCC
                    TCCTCCTGCCCCCAGCTCTGTCCTGTTAATCATGCCCCTAGCTCCGTCCTGTTCCTCCT[GC]TCCCCAGCTCTGTCCT
81577 IS   [CT]      TCCTGTTTCTCCTGCCTCCAGCTCCATCTTGTTACTCCTGCCCCA
81579 I            S  ACCAGGGAAGCCGAAAACCAGAGTTGCTA
81579 P    A       S  CGCGCCGAGGTACCTTTTGCTCCCGTY
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FIGURE 129D

81579 P	G	S	ATGACGTGGCAGACCACCTTTTGCTCCCGY	
81579 T	A	S	TCGAACGGGAGCAAAAGGTAAGCAACTCTGGTTTTCGGCTTCCCTGGTGC	
81579 T	G	S	TCGAACGGGAGCAAAAGGTGAGCAACTCTGGTTTTCGGCTTCCCTGGTGC	
			GATGGCAGACCTGAACTTCTTTACCCTGAAGTACAAACATGTCGAACGGGAGCAAAAGGT[AG]AGCAACTCTGGTTTT	
81579 IS	[AG]		CGGCTTCCCTGGTGCTGCTTGCGAAGGCGCTGCCTGGCTGGAGGA	
81599 I		S	GCAGCAGTAACATCAGGAGAAGCCCCCAA	
81599 P	G	S	ATGACGTGGCAGACCAGCCAGTAACGGAGGY	
81599 P	A	S	CGCGCCGAGGTAGCCAGTAACGGAGGY	
81599 T	G	S	CCCTCCTCCGTTACTGGCTGTGGGGGCTTCTCCTGATGTTACTGCTGCAC	
81599 T	A	S	CCCTCCTCCGTTACTGGCTATGGGGGCTTCTCCTGATGTTACTGCTGCAC	
			TACCTCTAATAGATTCCCCTGCAGAGTCCTCACCCCCAGTGCCCTCCTCCGTTACTGGCT[GA]TGGGGGCTTCTCCTG	
81599 IS	[GA]		ATGTTACTGCTGCACTCAGAGATTCCTGTAGGCCTGATGCTCATT	
81613 I		A	GAGTAGACTGCGCTGCCACTGCGCT	
81613 P	G	A	ATGACGTGGCAGACGCATGCTGGTGCCY	
81613 P	A	A	CGCGCCGAGGACATGCTGGTGCCCY	
81613 T	G	A	AGACGGGCACCAGCATGCGCGCAGTGGCAGCGCAGTCTACTCTG	
81613 T	A	A	AGACGGGCACCAGCATGTGCGCAGTGGCAGCGCAGTCTACTCTG	
			TCTTCCAAGAGTTGACCAGGAACCCTAAAGCATCCAGAGTAGACTGCGCTGCCACTGCGC[GA]CATGCTGGTGCCCG	
81613 IS	[GA]		TCTTCCTCCTAAGGGGCCAGGCCACATCCAAGTGGGCCTCTGTCGG	
81654 I		S	GTGTCTTACCTCGGCCCTGGTCACGAA	
81654 P	G	S	ATGACGTGGCAGACCTATGCGAATCAACGTCTY	
81654 P	A	S	CGCGCCGAGGTTATGCGAATCAACGTCTCY	
81654 T	G	S	TGAGGAGACGTTGATTCGCATAGTCGTGACCAGGGCCGAGGTAAGACACAC	
81654 T	A	S	TGAGGAGACGTTGATTCGCATAATCGTGACCAGGGCCGAGGTAAGACACAC	
			GAACGTCTGTACAAGTCGATGAAGGGTGCGGGGACCGATGAGGAGACGTTGATTCGCATA[GA]TCGTGACCAGGGC	
81654 IS	[GA]		CGAGGTAAGACACACTCCGACTCCAAAGAGGCGGCTGCAACTTCTCT	
81658 I		A	CTGTCCTCCTCCCGCCTGAGGCTT	
81658 P	C	A	CGCGCCGAGGCTAAGGGAAACCTGCAGY	
81658 P	G	A	ATGACGTGGCAGACGTAAGGGAAACCTGCAGY	
81658 T	C	A	ATTTCTGCAGGTTTCCCTTAGAGCCTCAGGCGGGAGGAGGACAGAG	
81658 T	G	A	ATTTCTGCAGGTTTCCCTTACAGCCTCAGGCGGGAGGAGGACAGAG	
			AAAACCAGTGCGAGCTCTGGGCCTCACCGTCAGGGCTCTGTCCTCCTCCCGCCTGAGGCT[CG]TAAGGGAAACCTGC	
81658 IS	[CG]		AGAAATGGGCAGCAGGCGCGGGGGAGCTGGGGCAGAATTGCACACA	
81688 I		S	GCTGCCAGGGAAGATCACGAAGATGCTGAC	
81688 P	C	S	ATGACGTGGCAGACGGATTAGAGAGCAAGCCY	
81688 P	A	S	CGCGCCGAGGTGATTAGAGAGCAAGCCAY	
81688 T	C	S	CTGTTGGCTTGCTCTCTAATCCTCAGCATCTTCGTGATCTTCCCTGGCAGCCT	
81688 T	A	S	CTGTTGGCTTGCTCTCTAATCATCAGCATCTTCGTGATCTTCCCTGGCAGCCT	
			TTCTGTCCTCATTCTCTGCCTTTTCAGCTTCAGAATCCACTGTTGGCTTGCTCTCTAATC[CA]TCAGCATCTTCGTGAT	
81688 IS	[CA]		CTTCCCTGGCAGCCTCAGCAGCATCTGCTTGGCTAGGTTCTCTC	
81720 I		A	GGGAGGGCACCAGTGGAAAGCCCA	
81720 P	C	A	ATGACGTGGCAGACCGTTCCAAGCCATTTCAY	
81720 P	T	A	CGCGCCGAGGTGTTCCAAGCCATTTCAGY	
81720 T	C	A	CCTCCTGAAATGGCTTGGAACGGGGCTTTCCACTGGTGCCCTCCCCA	
81720 T	T	A	CCTCCTGAAATGGCTTGGAACAGGGCTTTCCACTGGTGCCCTCCCCA	
			CCTGGCGAGGCACTGGCCCATTACAAGCAATCGTCTGGGGAGGGCACCAGTGGAAAGCCC[CT]GTTCCAAGCCATTT	
81720 IS	[CT]		CAGGAGGGTGGCCCTGCTTCCGAGGAGCCGGAGTCAGTGGCCGGAT	
81775 I		A	CGGGGTGGAGGCCACAGGAGCT	
81775 P	A	A	CGCGCCGAGGACTGACGTCGTGGTATCY	
81775 P	G	A	ATGACGTGGCAGACGCTGACGTCGTGGTY	
81775 T	A	A	TTCTGATACCACGACGTCAGTGCTCCTGTGGCCTCCACCCCGGG	
81775 T	G	A	TTCTGATACCACGACGTCAGCGCTCCTGTGGCCTCCACCCCGGG	
			CTCGGTTACCGCAAAGGACTCGCAAGCCTCCGCCAGCCCCGGGGTGGAGGCCACAGGAGC[AG]CTGACGTCGTGGT	
81775 IS	[AG]		ATCAGAAAGGCGGACAGTGCAGCCTTAGTGTTCCCCAGGGGTGGGAG	
81839 I		A	GACAGCAGCCACCACAGCCTGGGT	
81839 P	C	A	ATGACGTGGCAGACCAGCTGTGATCAGCAGY	
81839 P	A	A	CGCGCCGAGGAAGCTGTGATCAGCAGY	
81839 T	C	A	TGGCCTGCTGATCACAGCTGCCCAGGCTGTGGTGGCTGCTGTCTG	
81839 T	A	A	TGGCCTGCTGATCACAGCTTCCCAGGCTGTGGTGGCTGCTGTCTG	
			AAGTAATGATACAAGGAGTCCAGCTGGGGCCACTACAGACAGCAGCCACCACAGCCTGGG[CA]AGCTGTGATCAGCA	
81839 IS	[CA]		GGCCACCACTGTGCCCTGGGCATCCTCAGAGTGTATCCCTTGGGCT	
81873 I		S	ACTTCTGGGATGGAGGACAGAGATGCAGTATGAGTACT	
81873 P	G	S	CGCGCCGAGGCTGTCTTGGAATAACTGCTY	
81873 P	C	S	ATGACGTGGCAGACGTGTCTTGGAATAACTGCTY	
81873 T	G	S	GCTCAGCAGTTATTCCAAGACAGGTACTCATACTGCATCTCTGTCCTCCATCCCAGAAGTGT	
81873 T	C	S	GCTCAGCAGTTATTCCAAGACACGTACTCATACTGCATCTCTGTCCTCCATCCCAGAAGTGT	
			CACCACTCTAGTTCTGAGGCAGCTGCCGGGTCCTGGAAGCTCAGCAGTTATTCCAAGACA[GC]GTACTCATACTGCAT	
81873 IS	[GC]		CTCTGTCCTCCATCCCAGAAGTGTGAGAAGAGCCAGCAGCCTGGC	
81880 I		A	CCAGGGCTCCCAGCATCAGCCCT	
81880 P	G	A	ATGACGTGGCAGACGTCTACCCTAAGCCCTGY	
81880 P	A	A	CGCGCCGAGGATCTACCCTAAGCCCTGY	
81880 T	G	A	GTTGCAGGGCTTAGGGTAGACGGGCTGATGCTGGGAGCCCTGGGG	
81880 T	A	A	GTTGCAGGGCTTAGGGTAGATGGGCTGATGCTGGGAGCCCTGGGG	
			AAGCCTGACAGCTGCAGTCCCAAGCTCAGTTAGTGTCCCCAGGGCTCCCAGCATCAGCCC[GA]TCTACCCTAAGCCC	
81880 IS	[GA]		TGCAACCAGCAACCACTCCCAGCACTGTAAGGAAATGAGTTCTGCA	
81930 I		A	CCATCTAGGGGACAAAAAGGAGATCAGAAAAGAAGTAGAAAAGAATACAAACAAATACT	
81930 P	A	A	CGCGCCGAGGAAAAGAAATGGGGAACCCY	
81930 P	G	A	ATGACGTGGCAGACGAAAGAAATGGGGAACCCY	
			GAGAGGGTTCCCCATTTCTTTTGTATTTGTTTGTATTCTTTTCTACTTCTTTTCTGATCTCCTTTTTGTCCCCTAGATGG	
81930 T	A	A	TG	
			GAGAGGGTTCCCCATTTCTTTCGTATTTGTTTGTATTCTTTTCTACTTCTTTTCTGATCTCCTTTTTGTCCCCTAGATGG	
81930 T	G	A	TG	
			CACCATCTAGGGGACAAAAAGGAGATCAGAAAAGAAGTAGAAAAGAATACAAACAAATAC[AG]AAAGAAATGGGGAAC	
81930 IS	[AG]		CCTCTCCCTTGTTGTCCTTCTTGAGCTTCCTCTCTTAATCTTCCC	
81952 I		S	CAACACAGGGGGACAACATATGCAGGCCT	
81952 P	T	S	CGCGCCGAGGATGTGATTTTGCATGTGCY	
81952 P	C	S	ATGACGTGGCAGACGTGTGATTTTGCATGTGCY	
81952 T	T	S	TCAGGCACATGCAAAATCACATGGCCTGCATATGTTGTCCCCCTGTGTTGCT	
81952 T	C	S	TCAGGCACATGCAAAATCACACGGCCTGCATATGTTGTCCCCCTGTGTTGCT	
			TCCAAATAAAACCAAGGGCTTCCTCTCTCCAAATAAAATTCAGGCACATGCAAAATCACA[TC]GGCCTGCATATGTTGT	
81952 IS	[TC]		CCCCCTGTGTTGCTAAATCCTTGACTGTGCATGTTTCTGAGAGC	
81956 I		S	AGTAGCATCTGGGCCACCCAGAGCACT	
81956 P	T	S	CGCGCCGAGGACCAAGGGAAAGGTAGAGY	
81956 P	C	S	ATGACGTGGCAGACGCCAAGGGAAAGGTAGAY	
81956 T	T	S	GGCCCTCTACCTTTCCCTTGGTGTGCTCTGGGTGGCCCAGATGCTACTGG	
81956 T	C	S	GGCCCTCTACCTTTCCCTTGGCGTGCTCTGGGTGGCCCAGATGCTACTGG	
			CACAGTCACCATGAAGCTGGGCTGTGTCCTCATGGCCTGGGCCCTCTACCTTTCCCTTGG[TC]GTGCTCTGGGTGGC	
81956 IS	[TC]		CCAGATGCTACTGGGTAAGTAAAATATTTGAATATTGGTGTGGGAA	
81980 I		A	GGGTGTGGGGCCTTCTCCTGTAGCAAC	

FIGURE 129D


81990 P G A ATGACGTGGCAGACGATAATTACAGTCATCAGCCAY
81990 P T A CGCGCCGAGGTATAATTACAGTCATCAGCCACY
81990 T G A TATTGTGGCTGATGACTGTAATTATCTTGCTACAGGAGAAGGCCCCACACCCAA
81990 T T A TATTGTGGCTGATGACTGTAATTATATTGCTACAGGAGAAGGCCCCACACCCAA
CAGCCCCAGGACAACAATGGCCTGGTAAGAGTTTGGGTGTGGGGCCTTCTCCTGTAGCAA[GT]ATAATTACAGTCATC
81990 IS [GT] AGCCACAATAATTGTCATGTTCTTTCTTTCTGGGCGTCTGTTATC
82039 I A CCAACTCAGAGGTGGGCACCATCCTGCT
82039 P G A ATGACGTGGCAGACGTAACTGCGTCCACGY
82039 P A A CGCGCCGAGGATAACTGCGTCCACGTY
82039 T G A CTGCACGTGGACGCAGTTACGCAGGATGGTGCCCACCTCTGAGTTGGGC
82039 T A A CTGCACGTGGACGCAGTTATGCAGGATGGTGCCCACCTCTGAGTTGGGC
GGCTCTTGGATGCTCCAGGCATTGTCCCAGGGCCCAACTCAGAGGTGGGCACCATCCTGC[GA]TAACTGCGTCCACG
82039 IS [GA] TGCAGAAGCTGGCAGACCCTGTGACCCCAGTGGAGACCATCCTGCA FLJ10613
82076 I A CCGCGCTCGCTCGTAGAGATCCTAGACT
82076 P G A ATGACGTGGCAGACGAGTTCGACAGCGAGGY
82076 P A A CGCGCCGAGGAAGTTCGACAGCGAGGY
82076 T G A GGGACCTCGCTGTCGAACTCGTCTAGGATCTCTACGAGCGAGCGCGGCT
82076 T A A GGGACCTCGCTGTCGAACTTGTCTAGGATCTCTACGAGCGAGCGCGGCT
CTGCTCCGCTTCCAGGCCACCCGGGCTCTCCAGCCGCGCTCGCTCGTAGAGATCCTAGAC[GA]AGTTCGACAGCGA
82076 IS [GA] GGTCCCGCAGAGCAAGACCTGCCAGCAGATCTCCGAGGAGGACTTGG
82133 I S GCTAGCTGTAAAGTAGAGGAGTGTCCTCCTTCCACCT
82133 P C S ATGACGTGGCAGACGTATTCCTTTGTCTTCAGTCAY
82133 P T S CGCGCCGAGGATATTCCTTTGTCTTCAGTCATY
82133 T C S TGAGATGACTGAAGACAAAGGAATACGGTGGAAGGAGGACACTCCTCTACTTTACAGCTAGCTG
82133 T T S TGAGATGACTGAAGACAAAGGAATATGGTGGAAGGAGGACACTCCTCTACTTTACAGCTAGCTG
CTGGGGACAAAAGGTTGAGAGAAGGATAAGAGGAATGAGATGACTGAAGACAAAGGAATA[CT]GGTGGAAGGAGGAC
82133 IS [CT] ACTCCTCTACTTTACAGCTAGCTGAAAGCCAGAAAGGTTCAGCGAT
82167 I S ACAGAGATGAGTGATCTTGAAACCCTGCCCATGTTTTTT
82167 P T S CGCGCCGAGGATCTTTGGAGCCCAACTY
82167 P C S ATGACGTGGCAGACGTCTTTGGAGCCCAACY
82167 T T S GCACAGTTGGGCTCCAAAGATAAAAACATGGGCAGGGTTTCAAGATCACTCATCTCTGTCT
82167 T C S GCACAGTTGGGCTCCAAAGACAAAAACATGGGCAGGGTTTCAAGATCACTCATCTCTGTCT
CTTTCTCTTTGCCTCTTTGGATGGAGAAGAAAACAAGGCAGCACAGTTGGGCTCCAAAGA[TC]AAAAACATGGGCAGG
82167 IS [TC] GTTTCAAGATCACTCATCTCTGTCTTGGAGGATAGACCAAGAGAG
82234 I S GGGATCTGGGTCTTGTTCCAAATCTTGTTTTCATCCTGTGT
82234 P C S ATGACGTGGCAGACGGGTTGTGCTACTTCATCY
82234 P T S CGCGCCGAGGAGGTTGTGCTACTTCATCTY
82234 T C S AAGGAGATGAAGTAGCACAACCCACAGGATGAAAACAAGATTTGGAACAAGACCCAGATCCCAA
82234 T T S AAGGAGATGAAGTAGCACAACCTCACAGGATGAAAACAAGATTTGGAACAAGACCCAGATCCCAA
CTGGTCCATAAAGAAGTCTGTCAGCTTGGTCTACATCTAAGGAGATGAAGTAGCACAACC[CT]CACAGGATGAAAACA
82234 IS [CT] AGATTTGGAACAAGACCCAGATCCCAAGTCAGGCTTGGCCAGTCT
82245 I S GTGCAGGCTCTGCCCGAGCGACT
82245 P C S ATGACGTGGCAGACGCCCAGGACTCCAGY
82245 P T S CGCGCCGAGGACCCAGGACTCCAGGY
82245 T C S GGGACCTGGAGTCCTGGGCGTCGCTCGGGCAGAGCCTGCACAG
82245 T T S GGGACCTGGAGTCCTGGGTGTCGCTCGGGCAGAGCCTGCACAG
GGGCGGAGTGTGGGTGTGAGGGACGGGGCTTTCGTGTGGACGGGGACCTGGAGTCCTGGG[CT]GTCGCTCGGGCA
82245 IS [CT] GAGCCTGCACAGCATATCAGGGTGTAGGCCTGGGTGGCCTCGCCTCTG
82274 I A CCTCACCTTGTCCCTCCCTGCAGGGA
82274 P C A ATGACGTGGCAGACCGGGGTCTGATTGACTY
82274 P T A CGCGCCGAGGTGGGGTCTGATTGACTTY
82274 T C A CTTGAAGTCAATCAGACCCCGCCCTGCAGGGAGGGACAAGGTGAGGCC
82274 T T A CTTGAAGTCAATCAGACCCCACCCTGCAGGGAGGGACAAGGTGAGGCC
TCCCAAGCCATAGGCCCCTCCTAGGCCAGCTCAGGCCTCACCTTGTCCCTCCCTGCAGGG[CT]GGGGTCTGATTGAC
82274 IS [CT] TTCAAGAAGGAGTCAGAGATCAGCTTAAGGGCAAAGGCTGGAAGCA
82278 I S TGTAGGGAGGGGGAAGCCACGGCT
82278 P C S ATGACGTGGCAGACGGAGGGCCGCAGY
82278 P T S CGCGCCGAGGAGAGGGCCGCAGY
82278 T C S CCCCCTGCGGCCCTCCGCCGTGGCTTCCCCCTCCCTACAGA
82278 T T S CCCCCTGCGGCCCTCTGCCGTGGCTTCCCCCTCCCTACAGA
CTGGCTTGGGCCACTGTGCACAGCTGTGCCGCTGGCTCAGCCCCGCCCCCTGCGGCCCTC[CT]GCCGTGGCTTCCC
82278 IS [CT] CCTCCCTACAGAGAGATGCTGTCCCGTGGGTAAGTCCCGGGCACCAT
82410 I S TCTAATTTGTCTTCCACTTGTCAACTCTACTACCATTGCA
82410 P G S ATGACGTGGCAGACCGTCATTATCTTTCTTCTAGATTCY
82410 P A S CGCGCCGAGGTGTCATTATCTTTCTTCTAGATTCTY
82410 T G S TGCAAGAATCTAGAAGAAAGATAATGACGGCAATGGTAGTAGAGTTGACAAGTGGAAGACAAATTAGAAA
82410 T A S TGCAAGAATCTAGAAGAAAGATAATGACAGCAATGGTAGTAGAGTTGACAAGTGGAAGACAAATTAGAAA
TTTAAAATTGTGGAACTCATCTAATAAACTATTGCAAGAATCTAGAAGAAAGATAATGAC[GA]GCAATGGTAGTAGAGTT
82410 IS [GA] GACAAGTGGAAGACAAATTAGAAAAACACTAAGTTGTAAAAAT
82424 I S AACTCCTGAACACTATTTTTAACCTATAATAGCCCATGCTGTAGAGTTCAAATA
82424 P G S ATGACGTGGCAGACCCCAATAACCCCACAAAAY
82424 P A S CGCGCCGAGGTCCAATAACCCCACAAAATY
82424 T G S AGGGATTTTGTGGGGTTATTGGGATTTGAACTCTACAGCATGGGCTATTATAGGTTAAAAATAGTGTTCAGGAGTTTC
82424 T A S AGGGATTTTGTGGGGTTATTGGAATTTGAACTCTACAGCATGGGCTATTATAGGTTAAAAATAGTGTTCAGGAGTTTC
ACAGAGATTTCTTAATTAACATTATTCCTTTATAATTGAGGGATTTTGTGGGGTTATTGG[GA]ATTTGAACTCTACAGCA
82424 IS [GA] TGGGCTATTATAGGTTAAAAATAGTGTTCAGGAGTTTCTGGGG
84258 I S CCCATTGATACTGCAGAAGCCCCTGTGAGAATGT
84258 P C S ATGACGTGGCAGACGGTCCTTTGTGATCATCTGY
84258 P T S CGCGCCGAGGAGTCCTTTGTGATCATCTGY
84258 T C S GACACAGATGATCACAAAGGACCCATTCTCACAGGGGCTTCTGCAGTATCAATGGGCA
84258 T T S GACACAGATGATCACAAAGGACTCATTCTCACAGGGGCTTCTGCAGTATCAATGGGCA
GTTATCCCAAGATGCAACAGACTATTAGCTTCTTTACAGACACAGATGATCACAAAGGAC[CT]CATTCTCACAGGGGCT
82258 IS [CT] TCTGCAGTATCAATGGGCACTTATGTTGAAAAGGAGCCCCTGAC
84283 I A CGACGGCTCCTACCGCCGCACT
84283 P G A ATGACGTGGCAGACGGACTTTGTGGACAGGAY
84283 P A A CGCGCCGAGGAGACTTTGTGGACAGGAY
84283 T G A CGGGTCCTGTCCACAAAGTCCGTGCGGCGGTAGGAGCCGTCGGA
84283 T A A CGGGTCCTGTCCACAAAGTCTGTGCGGCGGTAGGAGCCGTCGGA
GCAGATGCTTGATGGCTACGCGGTCACCTACGTCTCCTCCGACGGCTCCTACCGCCGCAC[GA]GACTTTGTGGACAG
84283 IS [GA] GACCCGCTCCTCGCACCAGCTCCAGGCCCTGGCGGCCGGCAGGGCC
84297 I A CTTCCTCCAGTGTGGGTGCAGCAGGAT
84297 P C A ATGACGTGGCAGACCTGCCGGCTTCCTY
84297 P A A CGCGCCGAGGATGCCGGCTTCCTGY
84297 T C A AGGGCAGGAAGCCGGCAGTCCTGCTGCACCCACACTGGAGGAAGGA
84297 T A A AGGGCAGGAAGCCGGCATTCCTGCTGCACCCACACTGGAGGAAGGA

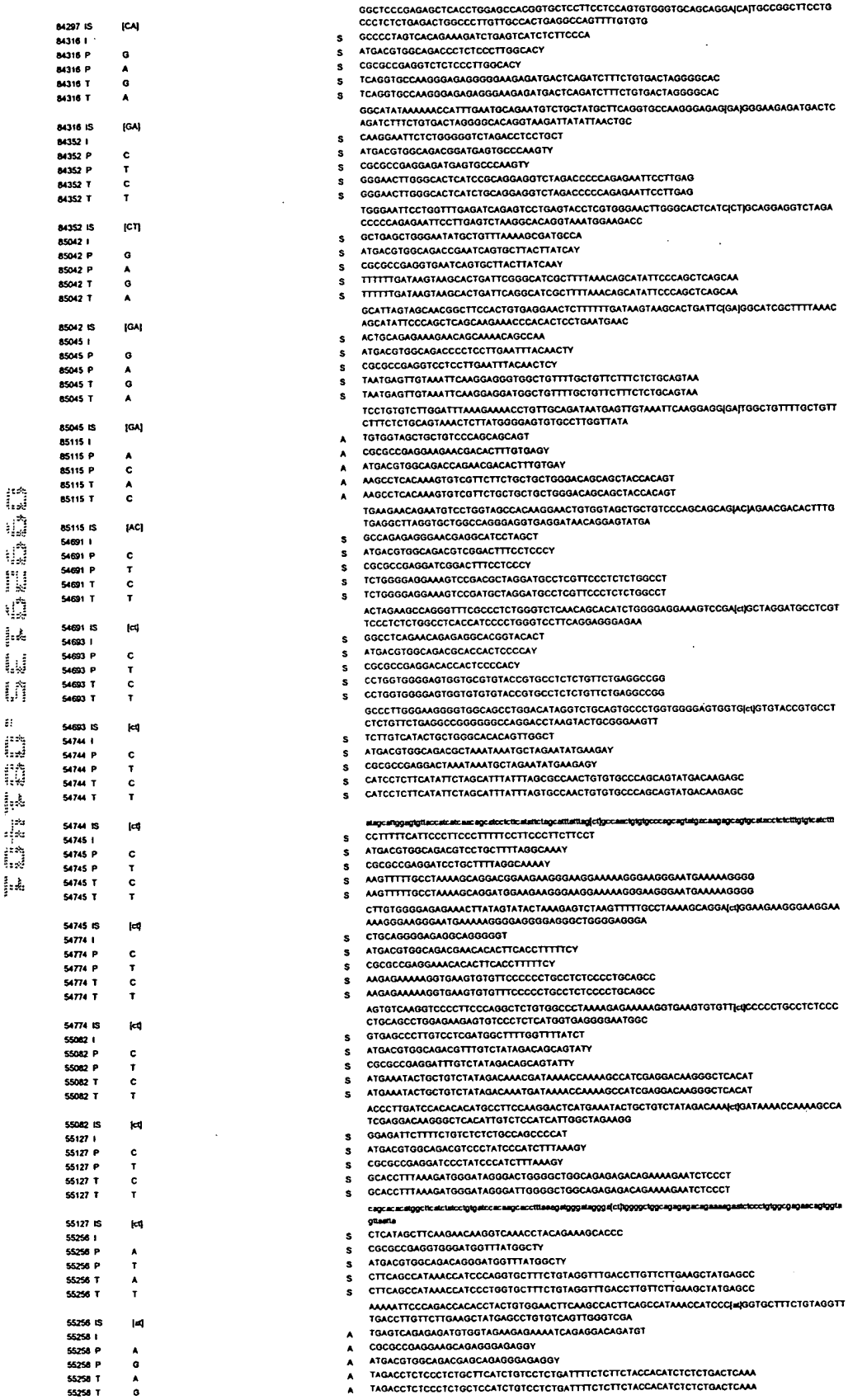
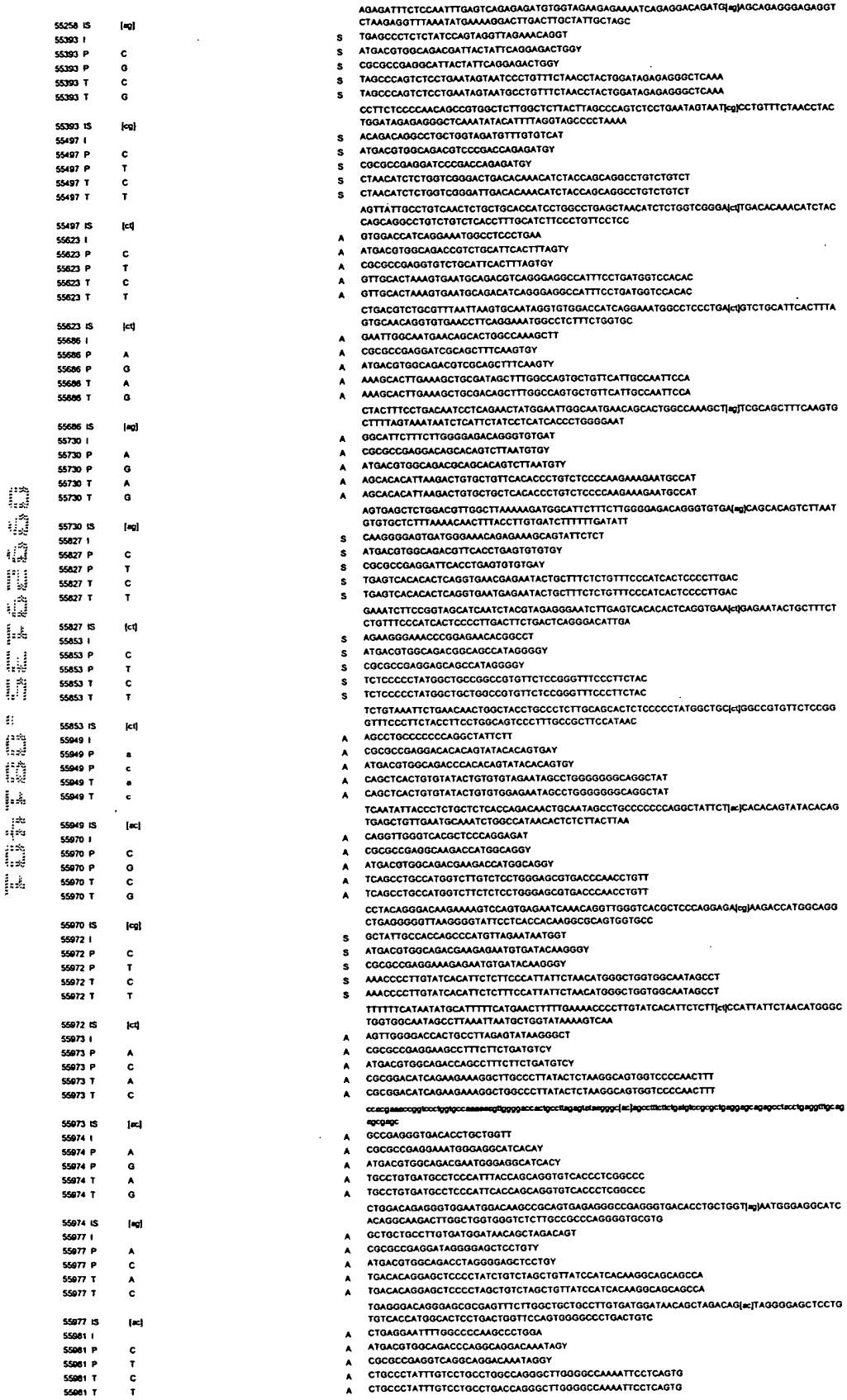
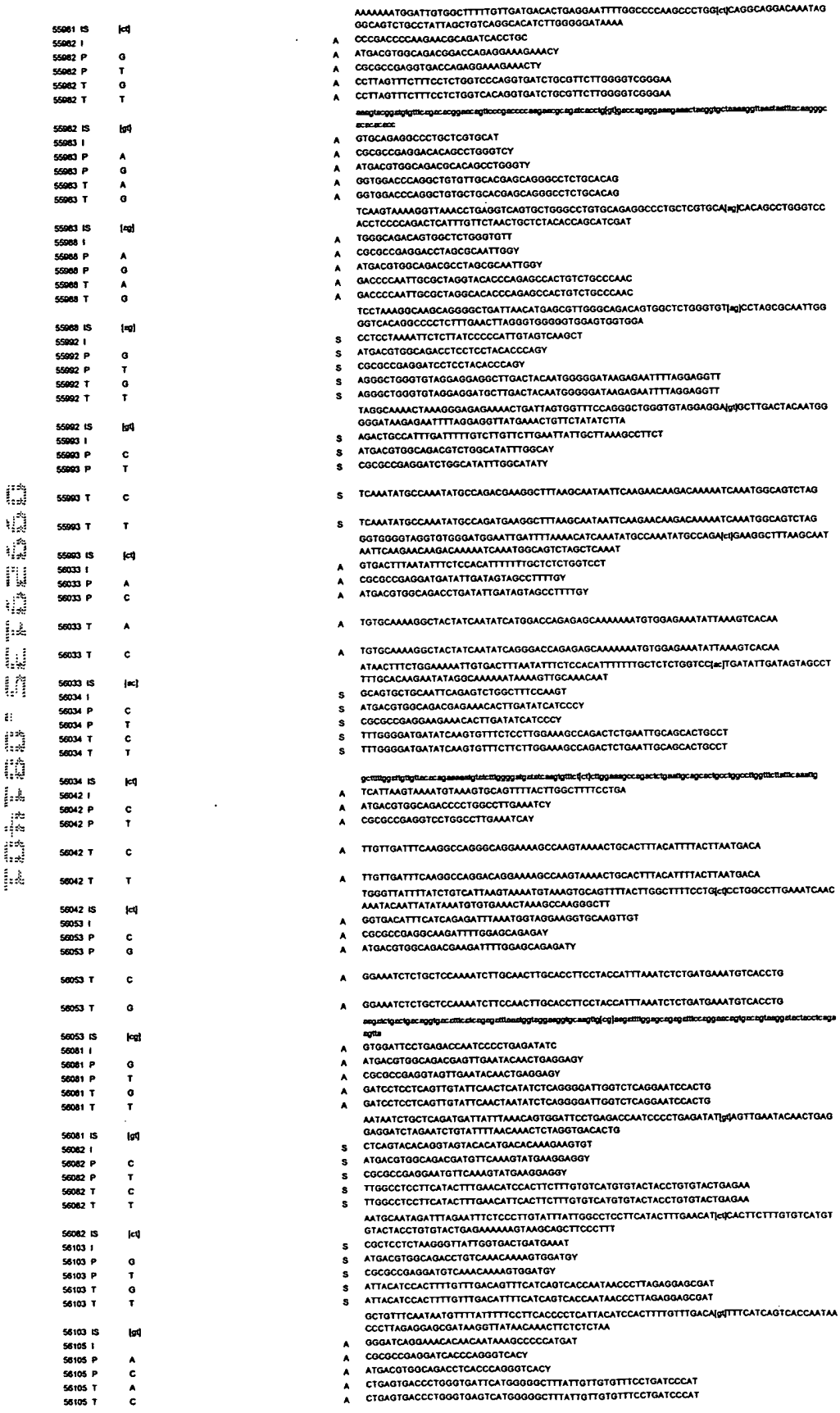

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84316 P G
84316 P A
84316 T G
84316 T A
84316 IS [GA]
84352 I
84352 P C
84352 P T
84352 T C
84352 T T
84352 IS [CT]
85042 I
85042 P G
85042 P A
85042 T G
85042 T A
85042 IS [GA]
85045 I
85045 P G
85045 P A
85045 T G
85045 T A
85045 IS [GA]
85115 I
85115 P A
85115 P C
85115 T A
85115 T C
85115 IS [AC]
54691 I
54691 P C
54691 P T
54691 T C
54691 T T
54691 IS [ct]
54693 I
54693 P C
54693 P T
54693 T C
54693 T T
54693 IS [ct]
54744 I
54744 P C
54744 P T
54744 T C
54744 T T
54744 IS [ct]
54745 I
54745 P C
54745 P T
54745 T C
54745 T T
54745 IS [ct]
54774 I
54774 P C
54774 P T
54774 T C
54774 T T
54774 IS [ct]
55082 I
55082 P C
55082 P T
55082 T C
55082 T T
55082 IS [ct]
55127 I
55127 P C
55127 P T
55127 T C
55127 T T
55127 IS [ct]
55256 I
55256 P A
55256 P T
55256 T A
55256 T T
55256 IS [ct]
55258 I
55258 P A
55258 P G
55258 T A
55258 T G

FIGURE 129D


55258 IS [ag] AGAGATTTCTCCAATTTGAGTCAGAGAGATGTGGTAGAAGAGAAAATCAGAGGACAGATG[ag]AGCAGAGGGAGAGGT
CTAAGAGGTTTAAATATGAAAAGGACTTGACTTGCTATTGCTAGC
55393 I S TGAGCCCTCTCTATCCAGTAGGTTAGAAACAGGT
55393 P C S ATGACGTGGCAGACGATTACTATTCAGGAGACTGGY
55393 P G S CGCGCCGAGGCATTACTATTCAGGAGACTGGY
55393 T C S TAGCCCAGTCTCCTGAATAGTAATCCCTGTTTCTAACCTACTGGATAGAGAGGGCTCAAA
55393 T G S TAGCCCAGTCTCCTGAATAGTAATGCCTGTTTCTAACCTACTGGATAGAGAGGGCTCAAA
55393 IS [cg] CCTTCTCCCCAACAGCCGTGGCTCTTGGCTCTTACTTAGCCCAGTCTCCTGAATAGTAAT[cg]CCTGTTTCTAACCTAC
TGGATAGAGAGGGCTCAAATATACATTTTAGGTAGCCCCTAAAA
55497 I S ACAGACAGGCCTGCTGGTAGATGTTTGTGTCAT
55497 P C S ATGACGTGGCAGACGTCCCGACCAGAGATGY
55497 P T S CGCGCCGAGGATCCCGACCAGAGATGY
55497 T C S CTAACATCTCTGGTCGGGACTGACACAAACATCTACCAGCAGGCCTGTCTGTCT
55497 T T S CTAACATCTCTGGTCGGGATTGACACAAACATCTACCAGCAGGCCTGTCTGTCT
55497 IS [ct] AGTTATTGCCTGTCAACTCTGCTGCACCATCCTGGCCTGAGCTAACATCTCTGGTCGGGA[ct]TGACACAAACATCTAC
CAGCAGGCCTGTCTGTCTCACCTTTGCATCTTCCCTGTTCCTCC
55623 I A GTGGACCATCAGGAAATGGCCTCCCTGAA
55623 P C A ATGACGTGGCAGACCGTCTGCATTCACTTTAGTY
55623 P T A CGCGCCGAGGTGTCTGCATTCACTTTAGTGY
55623 T C A GTTGCACTAAAGTGAATGCAGACGTCAGGGAGGCCATTTCCTGATGGTCCACAC
55623 T T A GTTGCACTAAAGTGAATGCAGACATCAGGGAGGCCATTTCCTGATGGTCCACAC
55623 IS [ct] CTGACGTCTGCGTTTAATTAAGTGCAATAGGTGTGGACCATCAGGAAATGGCCTCCCTGA[ct]GTCTGCATTCACTTTA
GTGCAACAGGTGTGAACCTTCAGGAAATGGCCTCTTTCTGGTGC
55686 I A GAATTGGCAATGAACAGCACTGGCCAAAGCTT
55686 P A A CGCGCCGAGGATCGCAGCTTTCAAGTGY
55686 P G A ATGACGTGGCAGACGTCGCAGCTTTCAAGTY
55686 T A A AAAGCACTTGAAAGCTGCGATAGCTTTGGCCAGTGCTGTTCATTGCCAATTCCA
55686 T G A AAAGCACTTGAAAGCTGCGACAGCTTTGGCCAGTGCTGTTCATTGCCAATTCCA
55686 IS [ag] CTACTTTCCTGACAATCCTCAGAACTATGGAATTGGCAATGAACAGCACTGGCCAAAGCT[ag]TCGCAGCTTTCAAGTG
CTTTTAGTAAATAATCTCATTCTATCCTCATCACCCTGGGGAAT
55730 I A GGCATTCTTTCTTGGGGAGACAGGGTGTGAT
55730 P A A CGCGCCGAGGACAGCACAGTCTTAATGTGY
55730 P G A ATGACGTGGCAGACGCAGCACAGTCTTAATGTY
55730 T A A AGCACACATTAAGACTGTGCTGTTCACACCCTGTCTCCCCAAGAAAGAATGCCAT
55730 T G A AGCACACATTAAGACTGTGCTGCTCACACCCTGTCTCCCCAAGAAAGAATGCCAT
55730 IS [ag] AGTGAGCTCTGGACGTTGGCTTAAAAAGATGGCATTCTTTCTTGGGGAGACAGGGTGTGA[ag]CAGCACAGTCTTAAT
GTGTGCTCTTTAAAACAACTTTACCTTGTGATCTTTTTTGATATT
55827 I S CAAGGGGAGTGATGGGAAACAGAGAAAGCAGTATTCTCT
55827 P C S ATGACGTGGCAGACGTTCACCTGAGTGTGTGY
55827 P T S CGCGCCGAGGATTCACCTGAGTGTGTGAY
55827 T C S TGAGTCACACACTCAGGTGAACGAGAATACTGCTTTCTCTGTTTCCCATCACTCCCCTTGAC
55827 T T S TGAGTCACACACTCAGGTGAATGAGAATACTGCTTTCTCTGTTTCCCATCACTCCCCTTGAC
55827 IS [ct] GAAATCTTCCGGTAGCATCAATCTACGTAGAGGGAATCTTGAGTCACACACTCAGGTGAA[ct]GAGAATACTGCTTTCT
CTGTTTCCCATCACTCCCCTTGACTTCTGACTCAGGGACATTGA
55853 I S AGAAGGGAAACCCGGAGAACACGGCCT
55853 P C S ATGACGTGGCAGACGGCAGCCATAGGGGY
55853 P T S CGCGCCGAGGAGCAGCCATAGGGGY
55853 T C S TCTCCCCCTATGGCTGCCGGCCGTGTTCTCCGGGTTTCCCTTCTAC
55853 T T S TCTCCCCCTATGGCTGCTGGCCGTGTTCTCCGGGTTTCCCTTCTAC
55853 IS [ct] TCTGTAAATTCTGAACAACTGGCTACCTGCCCTCTTGCAGCACTCTCCCCCTATGGCTGC[ct]GGCCGTGTTCTCCGG
GTTTCCCTTCTACCTTCCTGGCAGTCCCTTTGCCGCTTCCATAAC
55949 I A AGCCTGCCCCCCCAGGCTATTCTT
55949 P a A CGCGCCGAGGACACACAGTATACACAGTGAY
55949 P c A ATGACGTGGCAGACCCACACAGTATACACAGTGY
55949 T a A CAGCTCACTGTGTATACTGTGTGTAGAATAGCCTGGGGGGGGCAGGCTAT
55949 T c A CAGCTCACTGTGTATACTGTGTGGAGAATAGCCTGGGGGGGCAGGCTAT
55949 IS [ac] TCAATATTACCCTCTGCTCTCACCAGACAACTGCAATAGCCTGCCCCCCCAGGCTATTCT[ac]CACACAGTATACACAG
TGAGCTGTTGAATGCAAATCTGGCCATAACACTCTCTTACTTAA
55970 I A CAGGTTGGGTCACGCTCCCAGGAGAT
55970 P C A CGCGCCGAGGCAAGACCATGGCAGGY
55970 P G A ATGACGTGGCAGACGAAGACCATGGCAGGY
55970 T C A TCAGCCTGCCATGGTCTTGTCTCCTGGGAGCGTGACCCAACCTGTT
55970 T G A TCAGCCTGCCATGGTCTTCTCTCCTGGGAGCGTGACCCAACCTGTT
55970 IS [cg] CCTACAGGGACAAGAAAAGTCCAGTGAGAATCAAACAGGTTGGGTCACGCTCCCAGGAGA[cg]AAGACCATGGCAGG
CTGAGGGGGTTAAGGGGTATTCCTCACCACAAGGCGCAGTGGTGCC
55972 I S GCTATTGCCACCAGCCCATGTTAGAATAATGGT
55972 P C S ATGACGTGGCAGACGAAGAGAATGTGATACAAGGGY
55972 P T S CGCGCCGAGGAAAGAGAATGTGATACAAGGGY
55972 T C S AAACCCCTTGTATCACATTCTCTTCCCATTATTCTAACATGGGCTGGTGGCAATAGCCT
55972 T T S AAACCCCTTGTATCACATTCTCTTTCCATTATTCTAACATGGGCTGGTGGCAATAGCCT
55972 IS [ct] TTTTTTCATAATATGCATTTTTCATGAACTTTTTGAAAACCCCTTGTATCACATTCTCTT[ct]CCATTATTCTAACATGGGC
TGGTGGCAATAGCCTTAAATTAATGCTGGTATAAAAGTCAA
55973 I A AGTTGGGGACCACTGCCTTAGAGTATAAGGGCT
55973 P A A CGCGCCGAGGAAGCCTTTCTTCTGATGTCY
55973 P C A ATGACGTGGCAGACCAGCCTTTCTTCTGATGTCY
55973 T A A CGCGGACATCAGAAGAAAGGCTTGCCCTTATACTCTAAGGCAGTGGTCCCCAACTTT
55973 T C A CGCGGACATCAGAAGAAAGGCTGGCCCTTATACTCTAAGGCAGTGGTCCCCAACTTT
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55974 I A GCCGAGGGTGACACCTGCTGGTT
55974 P A A CGCGCCGAGGAAATGGGAGGCATCACAY
55974 P G A ATGACGTGGCAGACGAATGGGAGGCATCACY
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55974 T G A TGCCTGTGATGCCTCCCATTCACCAGCAGGTGTCACCCTCGGCCC
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55977 P A A CGCGCCGAGGATAGGGGAGCTCCTGTY
55977 P C A ATGACGTGGCAGACCTAGGGGAGCTCCTGY
55977 T A A TGACACAGGAGCTCCCCTATCTGTCTAGCTGTTATCCATCACAAGGCAGCAGCCA
55977 T C A TGACACAGGAGCTCCCCTAGCTGTCTAGCTGTTATCCATCACAAGGCAGCAGCCA
55977 IS [ac] TGAGGGACAGGGAGCGCGAGTTTCTTGGCTGCTGCCTTGTGATGGATAACAGCTAGACAG[ac]TAGGGGAGCTCCTG
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55981 I A CTGAGGAATTTTGGCCCCAAGCCCTGGA
55981 P C A ATGACGTGGCAGACCCAGGCAGGACAAATAGY
55981 P T A CGCGCCGAGGTCAGGCAGGACAAATAGGY
55981 T C A CTGCCCTATTTGTCCTGCCTGGCCAGGGCTTGGGGCCAAAATTCCTCAGTG
55981 T T A CTGCCCTATTTGTCCTGCCTGACCAGGGCTTGGGGCCAAAATTCCTCAGTG


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55981 IS [ct]
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55982 I
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55982 P G
A ATGACGTGGCAGACGGACCAGAGGAAAGAAACY
55982 P T
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55982 T G
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55982 T T
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55983 P A
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55983 P G
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55983 T A
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55983 T G
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55988 P A
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55988 P G
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55988 T A
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55988 T G
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55993 T C
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55993 T T
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56033 P A
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56033 P C
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56033 T C
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56034 P C
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56034 P T
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56034 T C
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56042 P C
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56042 P T
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56042 T C
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56042 T T
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56042 IS [ct]
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56053 I
A CGCGCCGAGGCAAGATTTTGGAGCAGAGAY
56053 P C
A ATGACGTGGCAGACGAAGATTTTGGAGCAGAGATY
56053 P G
A GGAAATCTCTGCTCCAAAATCTTGCAACTTGCACCTTCCTACCATTTAAATCTCTGATGAAATGTCACCTG
56053 T C
A GGAAATCTCTGCTCCAAAATCTTCCAACTTGCACCTTCCTACCATTTAAATCTCTGATGAAATGTCACCTG
56053 T G
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56053 IS [cg]
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56081 P G
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56082 P C
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56082 P T
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56082 T C
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56103 I
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56103 P G
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56103 P T
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56103 T G
S ATTACATCCACTTTTGTTTGACATTTTCATCAGTCACCAATAACCCTTAGAGGAGCGAT
56103 T T
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56103 IS [gt]
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56105 I
A CGCGCCGAGGATCACCCAGGGTCACY
56105 P A
A ATGACGTGGCAGACCTCACCCAGGGTCACY
56105 P C
A CTGAGTGACCCTGGGTGATTCATGGGGGCTTTATTGTTGTGTTTCCTGATCCCAT
56105 T A
A CTGAGTGACCCTGGGTGAGTCATGGGGGCTTTATTGTTGTGTTTCCTGATCCCAT
56105 T C

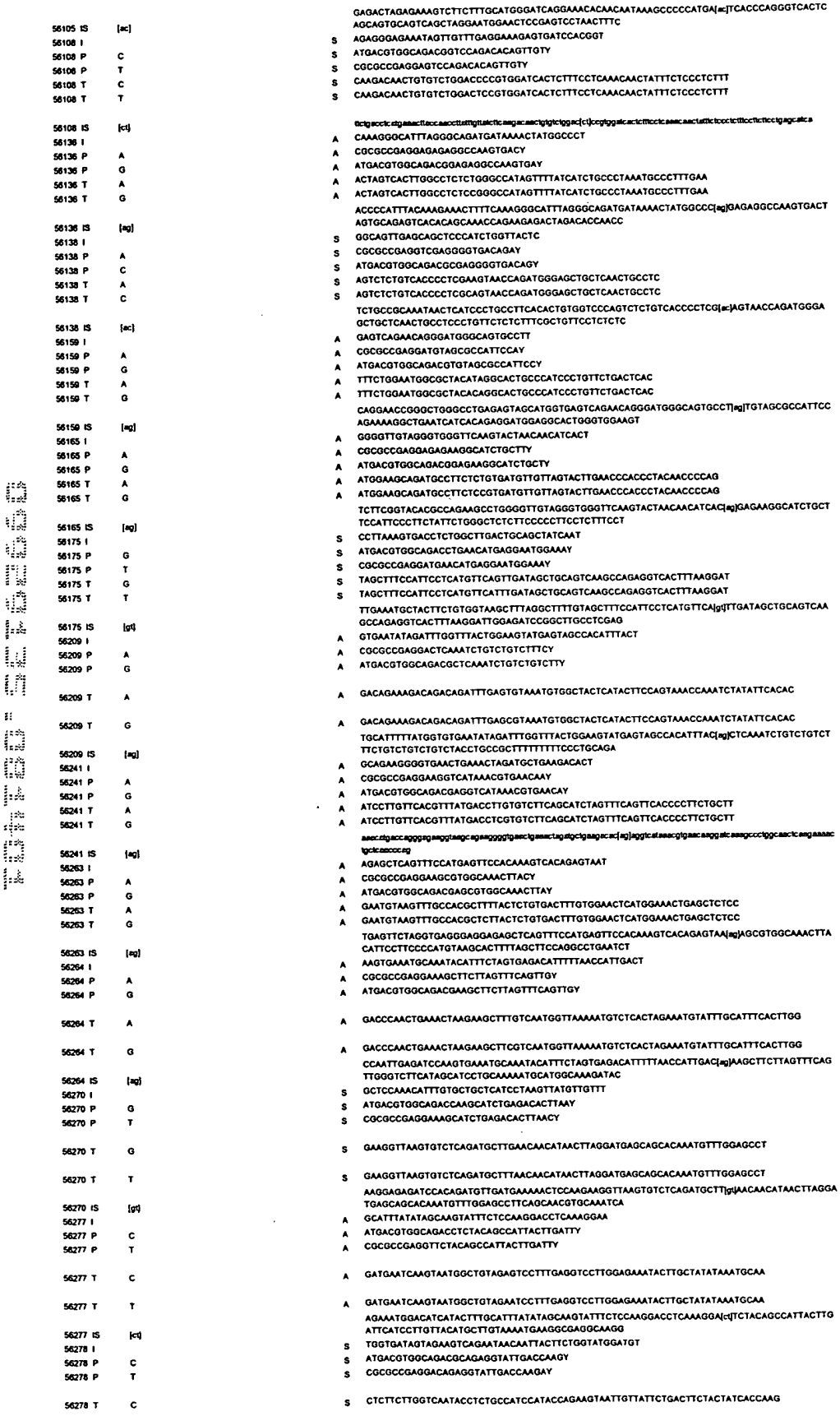
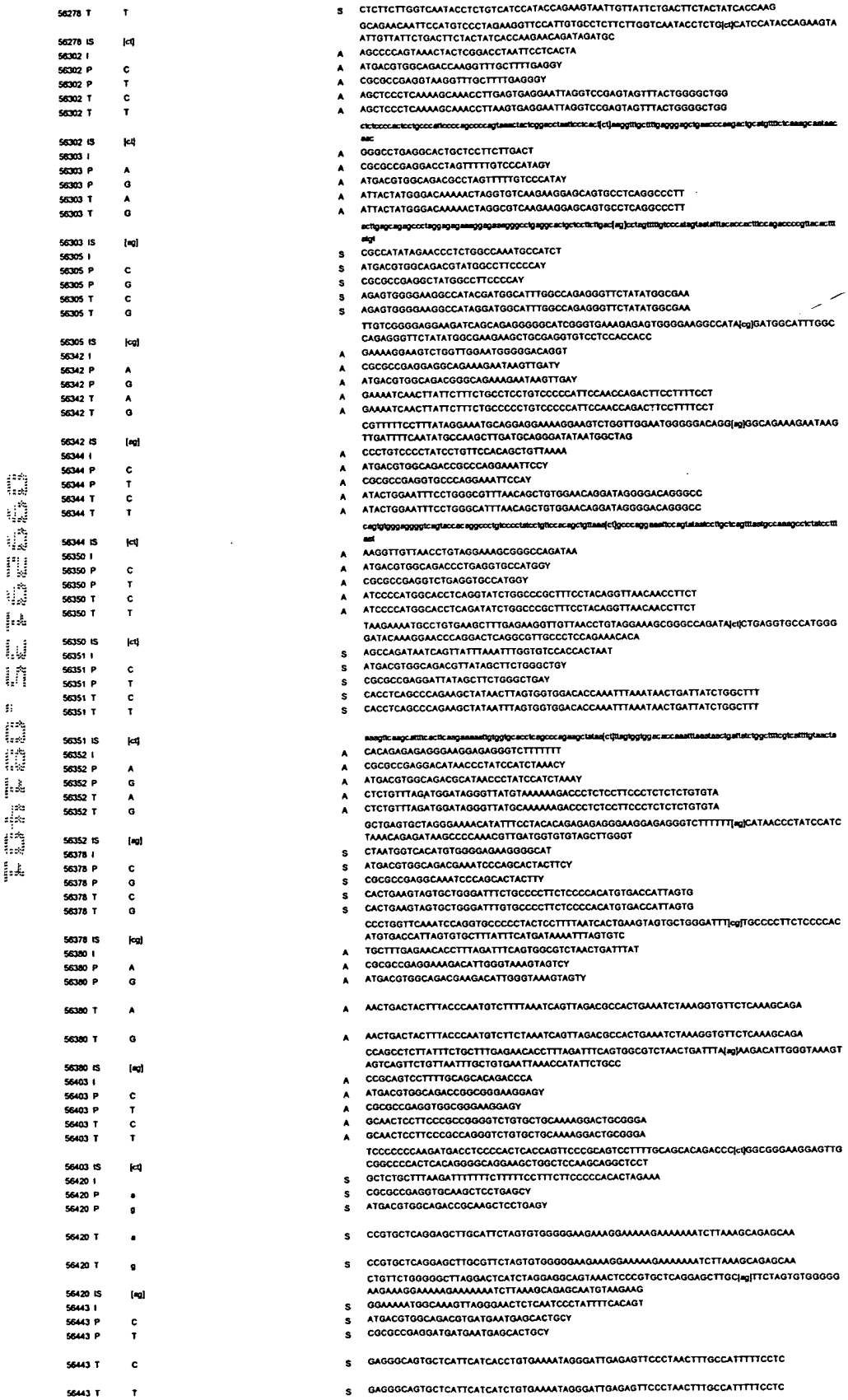


FIGURE 129D



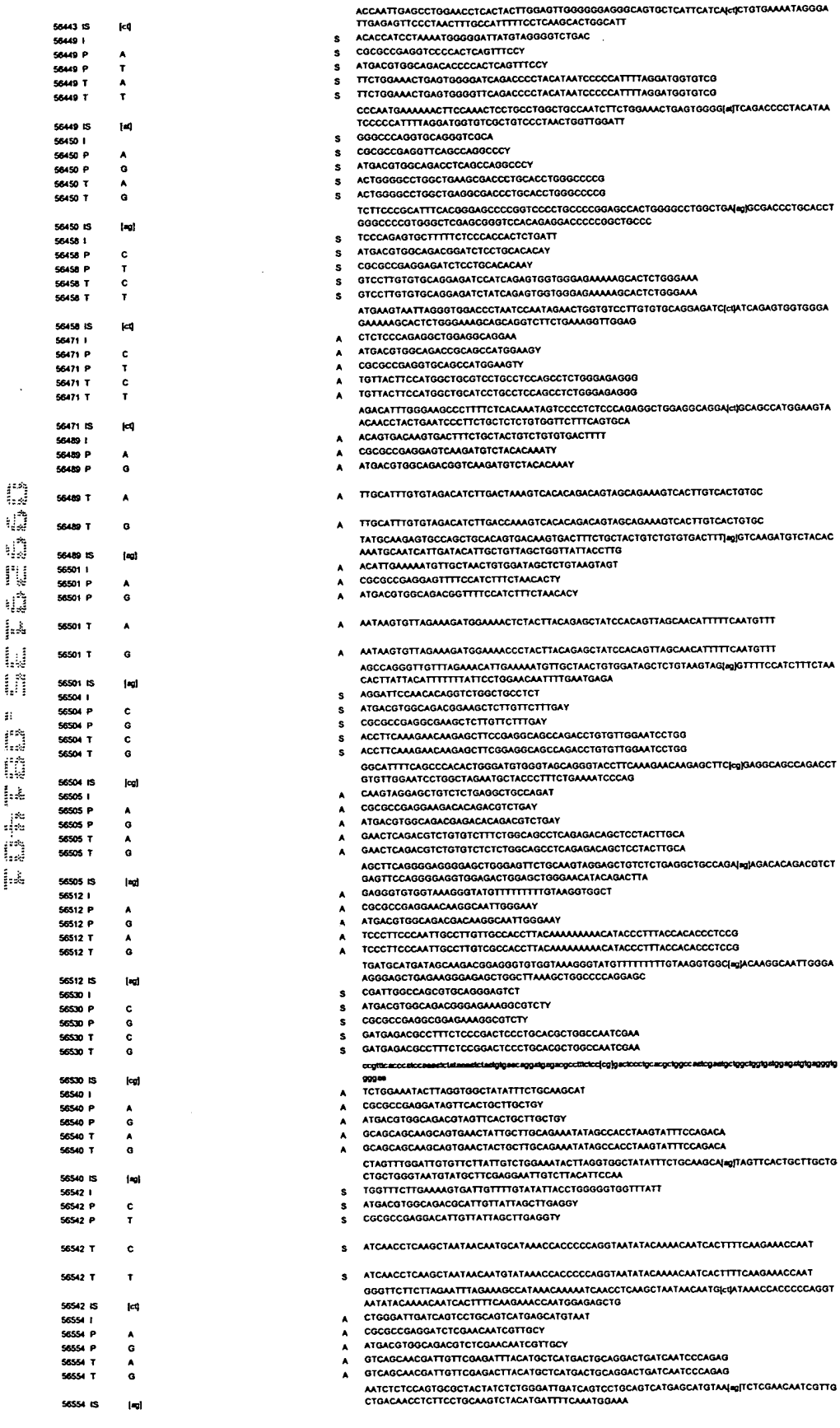
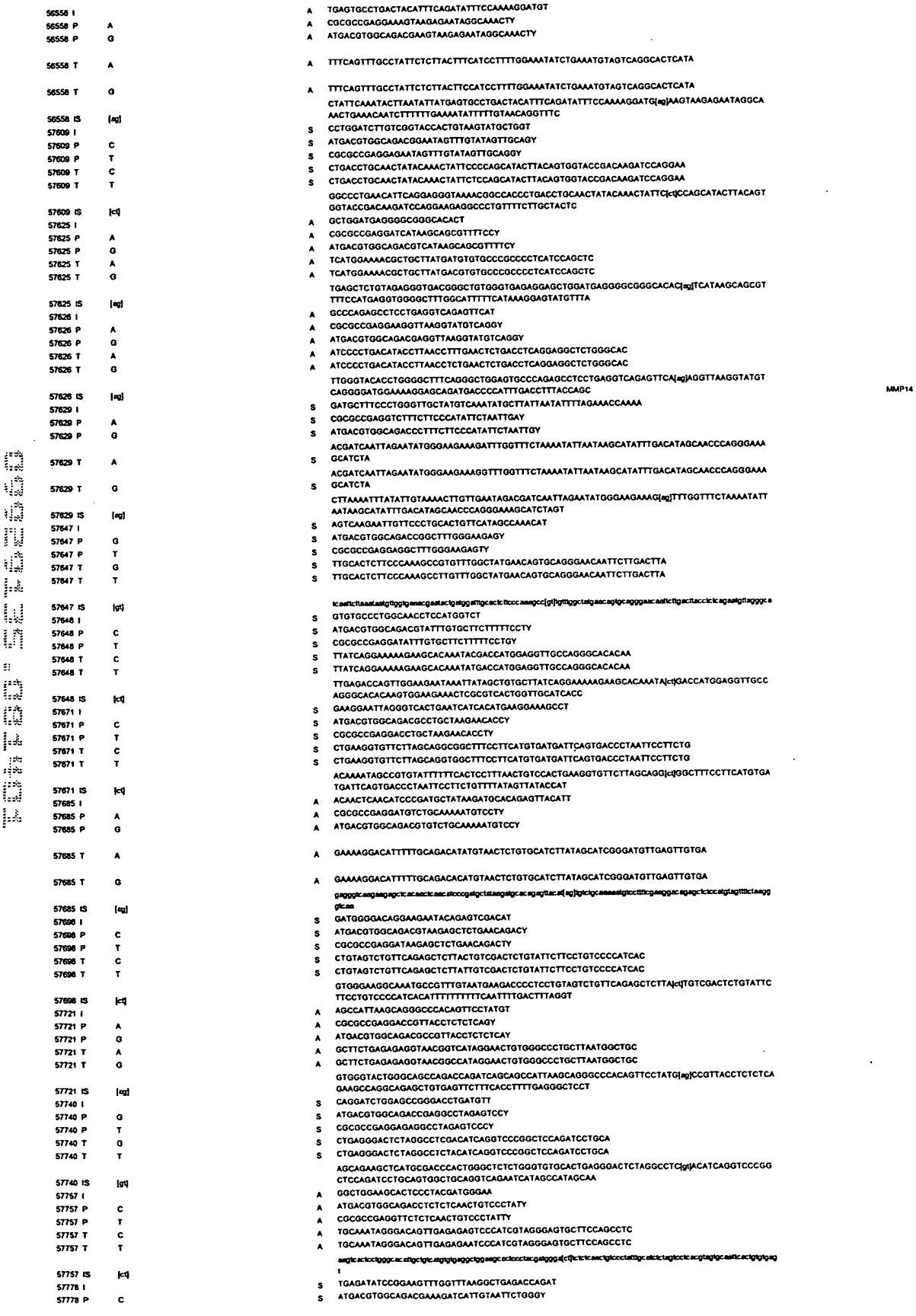

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56449 P T S ATGACGTGGCAGACACCCCACTCAGTTTCCY
56449 T A S TTCTGGAAACTGAGTGGGGATCAGACCCCTACATAATCCCCCATTTTAGGATGGTGTCG
56449 T T S TTCTGGAAACTGAGTGGGGTTCAGACCCCTACATAATCCCCCATTTTAGGATGGTGTCG
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56530 P G S CGCGCCGAGGCGGAGAAAGGCGTCTY
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FIGURE 129D



MMP14

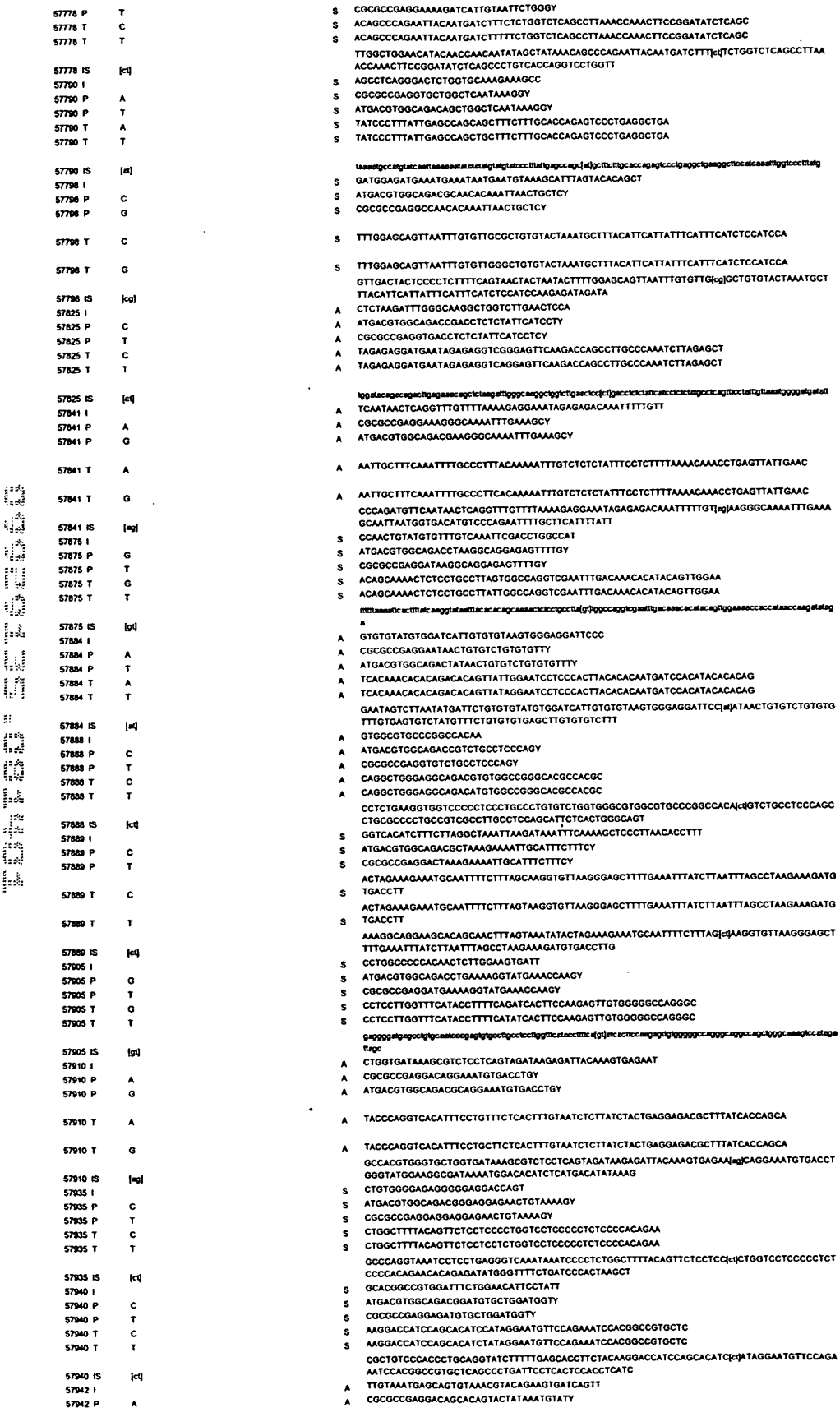


FIGURE 129D

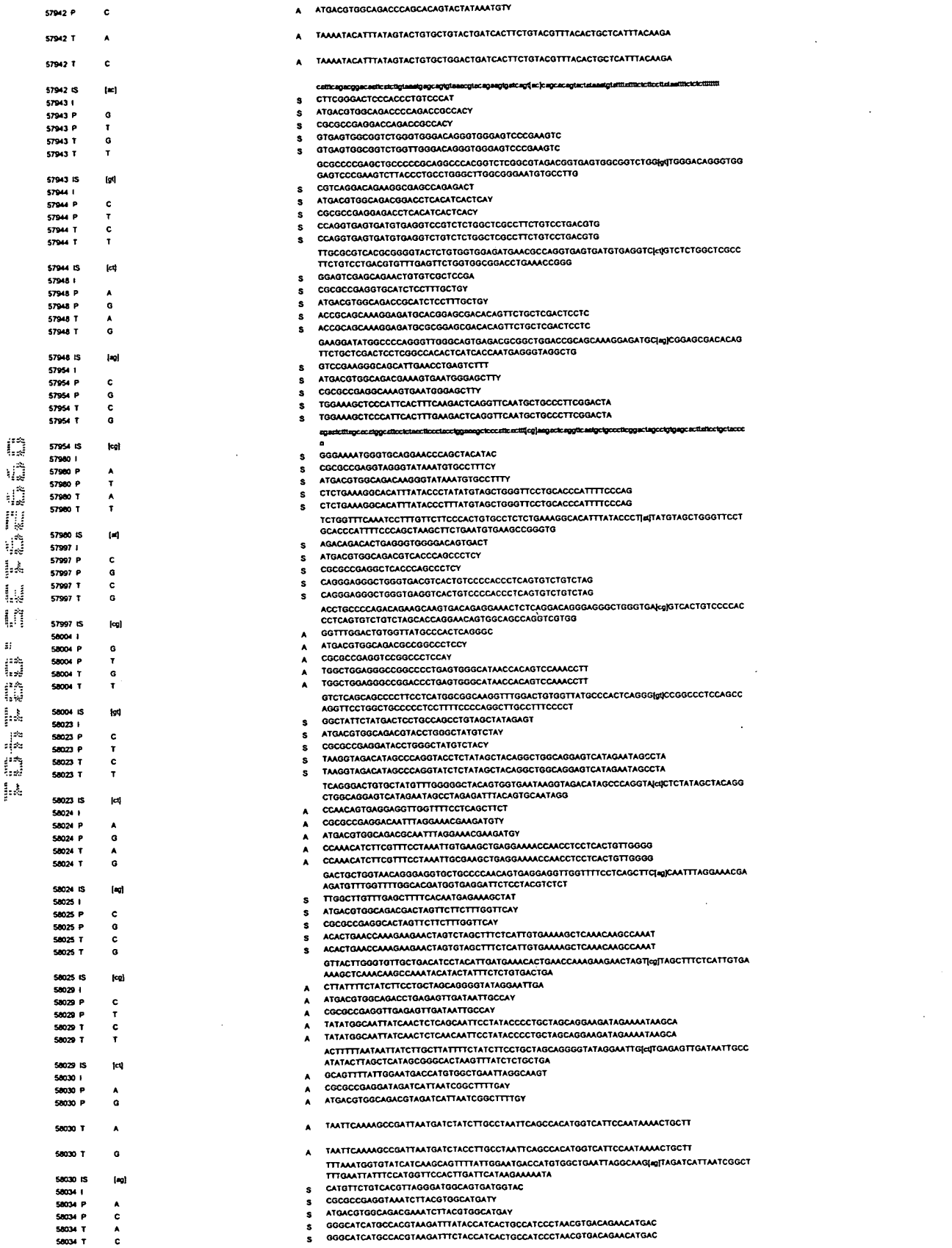
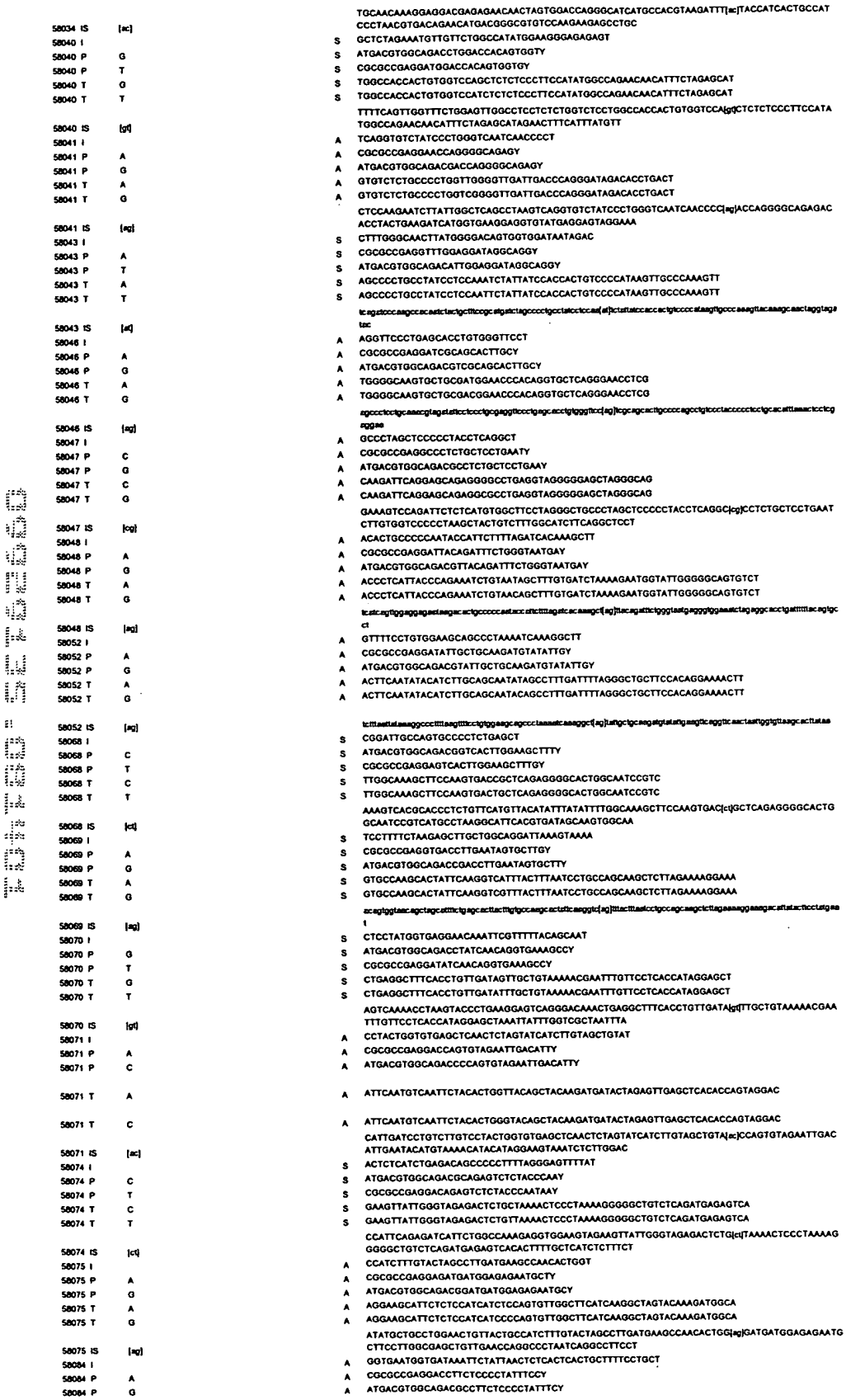
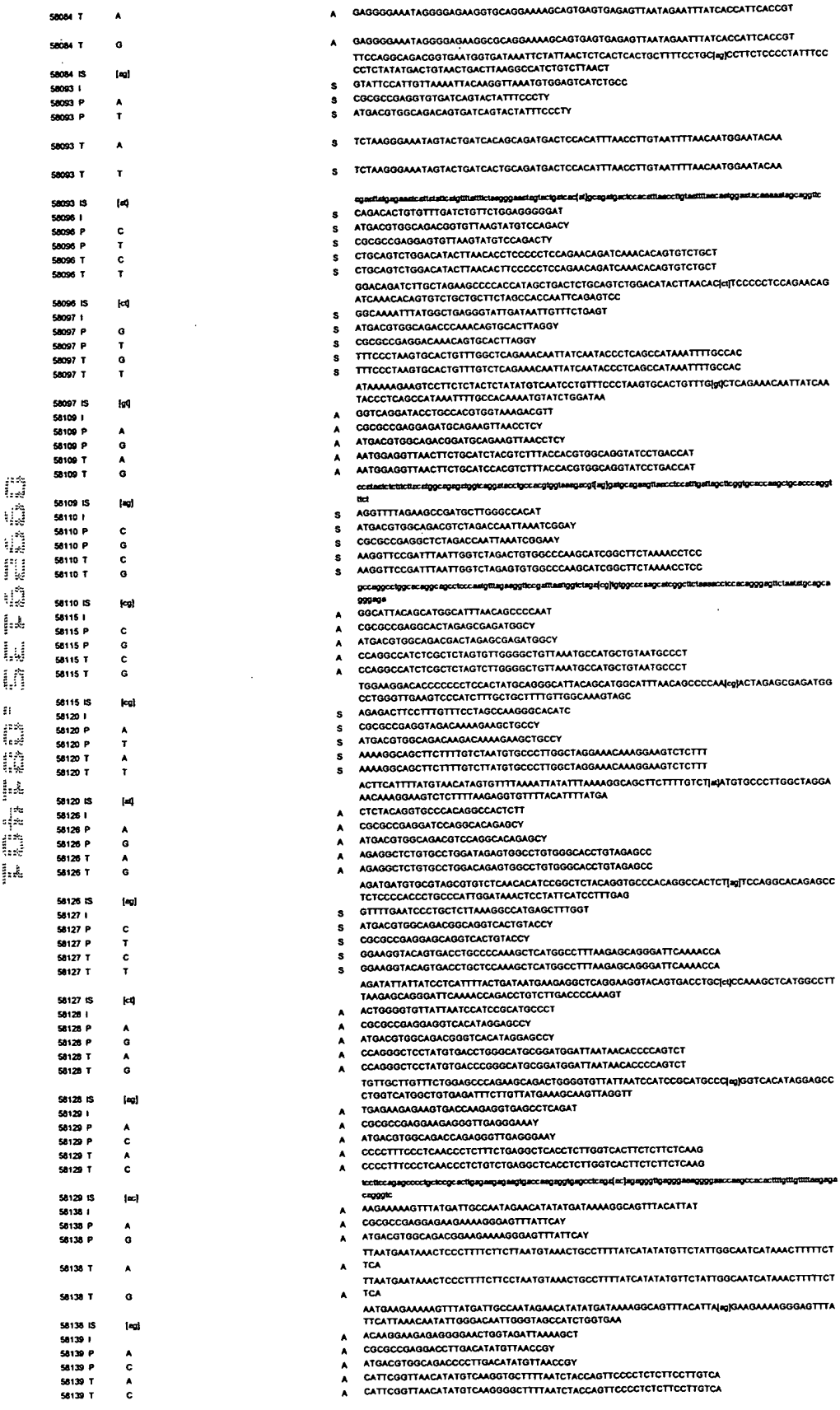


FIGURE 129D




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58096 P T
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58128 T G
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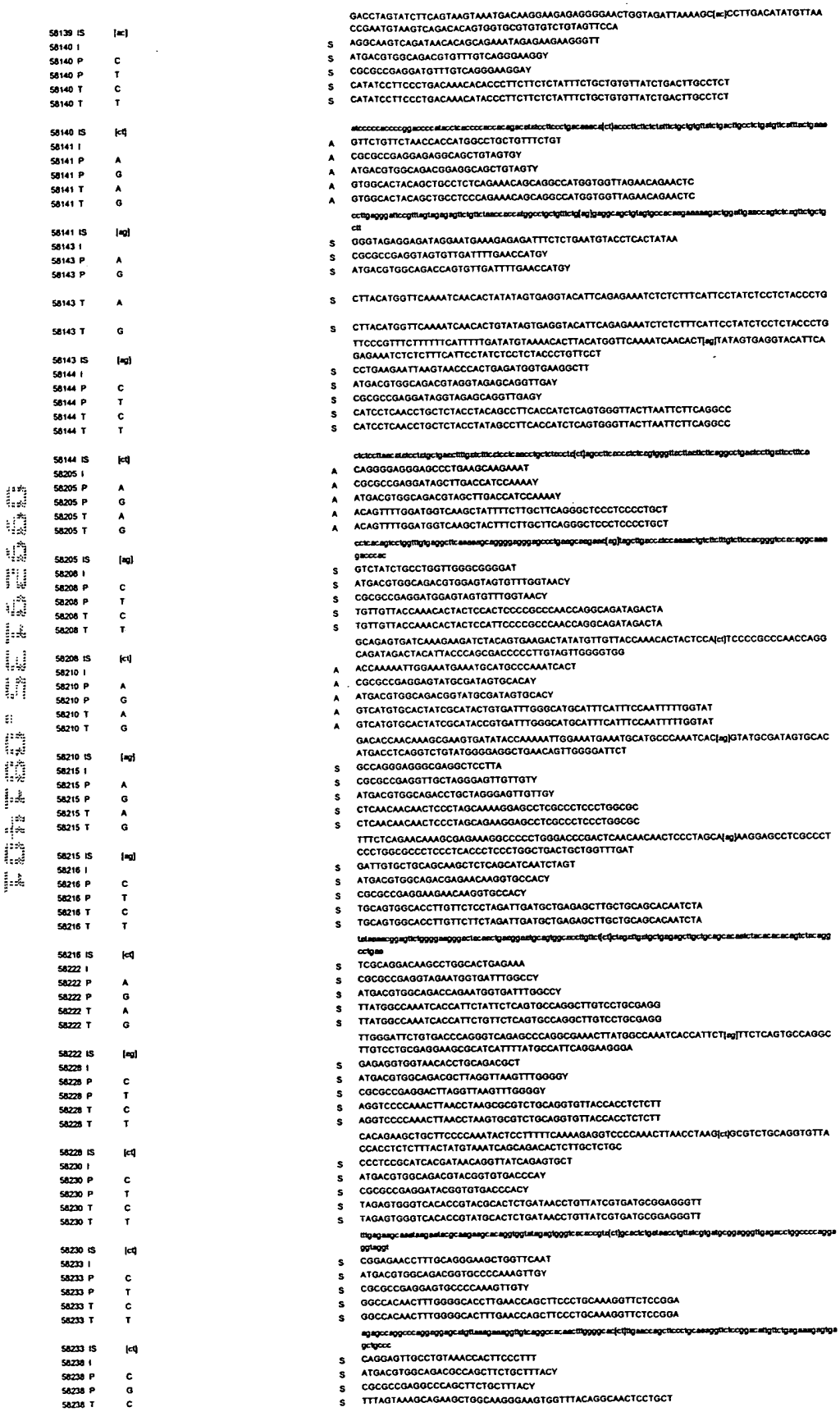


FIGURE 129D

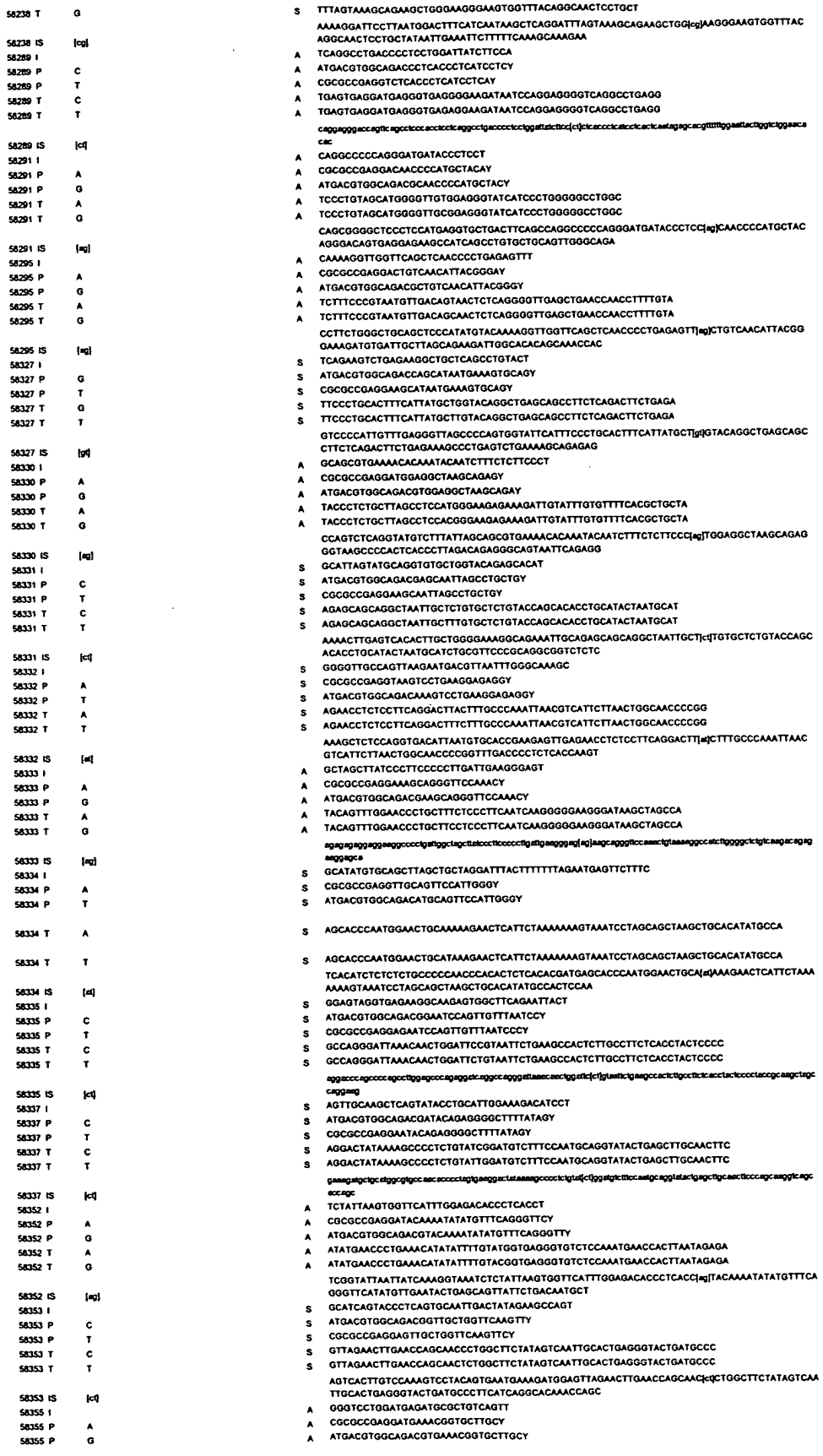

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S CGCGCCGAGGTTGCAGTTCCATTGGGY
58334 P T
S ATGACGTGGCAGACATGCAGTTCCATTGGGY
58334 T A
S AGCACCCAATGGAACTGCAAAAAGAACTCATTCTAAAAAAAGTAAATCCTAGCAGCTAAGCTGCACATATGCCA
58334 T T
S AGCACCCAATGGAACTGCATAAAGAACTCATTCTAAAAAAAGTAAATCCTAGCAGCTAAGCTGCACATATGCCA
TCACATCTCTCTCTGCCCCCAACCCACACTCTCACACGATGAGCACCCAATGGAACTGCA[at]AAAGAACTCATTCTAAA
AAAAGTAAATCCTAGCAGCTAAGCTGCACATATGCCACTCCAA
58334 IS [at]
58335 I
S GGAGTAGGTGAGAAGGCAAGAGTGGCTTCAGAATTACT
58335 P C
S ATGACGTGGCAGACGGAATCCAGTTGTTTAATCCY
58335 P T
S CGCGCCGAGGAGAATCCAGTTGTTTAATCCCY
58335 T C
S GCCAGGGATTAAACAACTGGATTCCGTAATTCTGAAGCCACTCTTGCCTTCTCACCTACTCCCC
58335 T T
S GCCAGGGATTAAACAACTGGATTCTGTAATTCTGAAGCCACTCTTGCCTTCTCACCTACTCCCC
aggcccagcccagcctggagcccagagggtcaggccagggattaaacaactggattc[ct]gtaattctgaagccactcttgccttctcacctactcccctacccgcaagctagc
cagggag
58335 IS [ct]
58337 I
S AGTTGCAAGCTCAGTATACCTGCATTGGAAAGACATCCT
58337 P C
S ATGACGTGGCAGACGATACAGAGGGGCTTTTATAGY
58337 P T
S CGCGCCGAGGAATACAGAGGGGCTTTTATAGY
58337 T C
S AGGACTATAAAAGCCCCTCTGTATTGGATGTCTTTCCAATGCAGGTATACTGAGCTTGCAACTTC
58337 T T
S AGGACTATAAAAGCCCCTCTGTATTGGATGTCTTTCCAATGCAGGTATACTGAGCTTGCAACTTC
gaaagatgctgcatggcgtgccaacacccctagtgaaggactataaaagccccctctgtat[ct]ggatgtctttccaatgcaggtatactgagcttgcaacttcccagcaaggtcagc
cccagc
58337 IS [ct]
58352 I
A TCTATTAAGTGGTTCATTTGGAGACACCCTCACCT
58352 P A
A CGCGCCGAGGATACAAAATATATGTTTCAGGGTTCY
58352 P G
A ATGACGTGGCAGACGTACAAAATATATGTTTCAGGGTTY
58352 T A
A ATATGAACCCTGAAACATATATTTTGTATGGTGAGGGTGTCTCCAAATGAACCACTTAATAGAGA
58352 T G
A ATATGAACCCTGAAACATATATTTTGTACGGTGAGGGTGTCTCCAAATGAACCACTTAATAGAGA
TCGGTATTAATTATCAAAGGTAAATCTCTATTAAGTGGTTCATTTGGAGACACCCTCACC[ag]TACAAAATATATGTTTCA
GGGTTCATATGTTGAATACTGAGCAGTTATTCTGACAATGCT
58352 IS [ag]
58353 I
S GCATCAGTACCCTCAGTGCAATTGACTATAGAAGCCAGT
58353 P C
S ATGACGTGGCAGACGGTTGCTGGTTCAAGTTY
58353 P T
S CGCGCCGAGGAGTTGCTGGTTCAAGTTCY
58353 T C
S GTTAGAACTTGAACCAGCAACCCTGGCTTCTATAGTCAATTGCACTGAGGGTACTGATGCCC
58353 T T
S GTTAGAACTTGAACCAGCAACTCTGGCTTCTATAGTCAATTGCACTGAGGGTACTGATGCCC
AGTCACTTGTCCAAAGTCCTACAGTGAATGAAAGATGGAGTTAGAACTTGAACCAGCAAC[cg]CTGGCTTCTATAGTCAA
TTGCACTGAGGGTACTGATGCCCTTCATCAGGCACAAACCAGC
58353 IS [ct]
58355 I
A GGGTCCTGGATGAGATGCGCTGTCAGTT
58355 P A
A CGCGCCGAGGATGAAACGGTGCTTGCY
58355 P G
A ATGACGTGGCAGACGTGAAACGGTGCTTGCY

FIGURE 129D

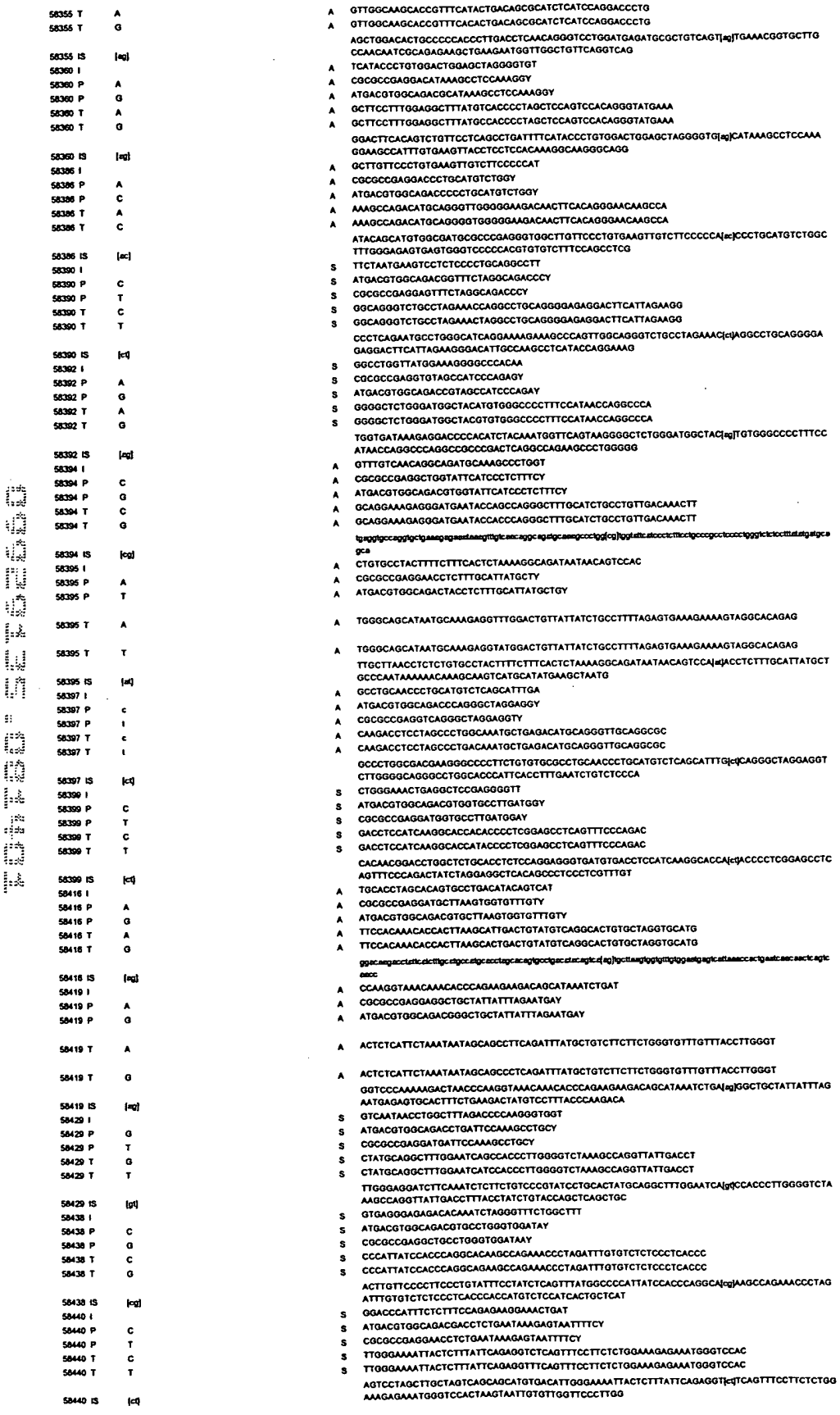


FIGURE 129D

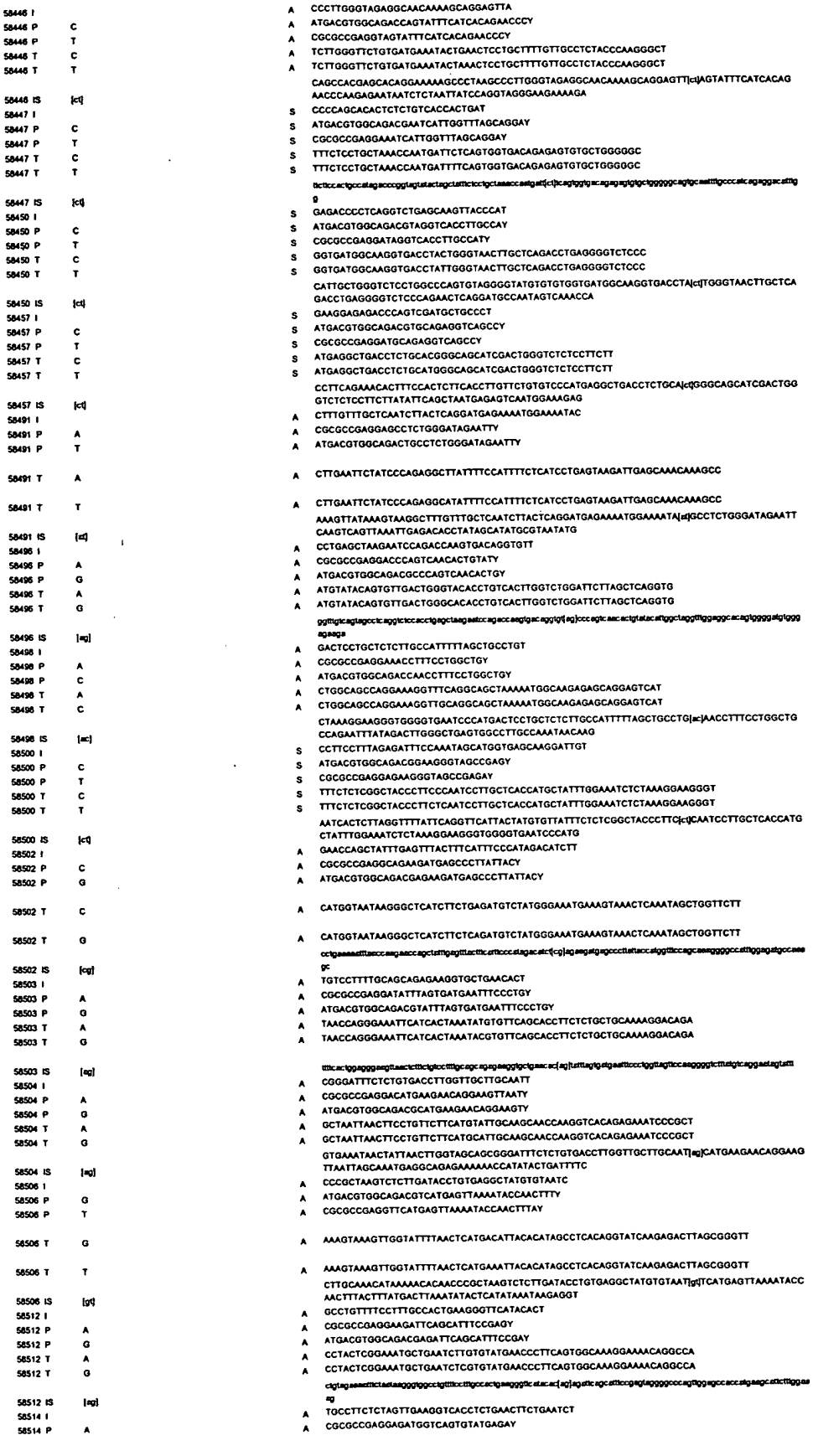


FIGURE 129D

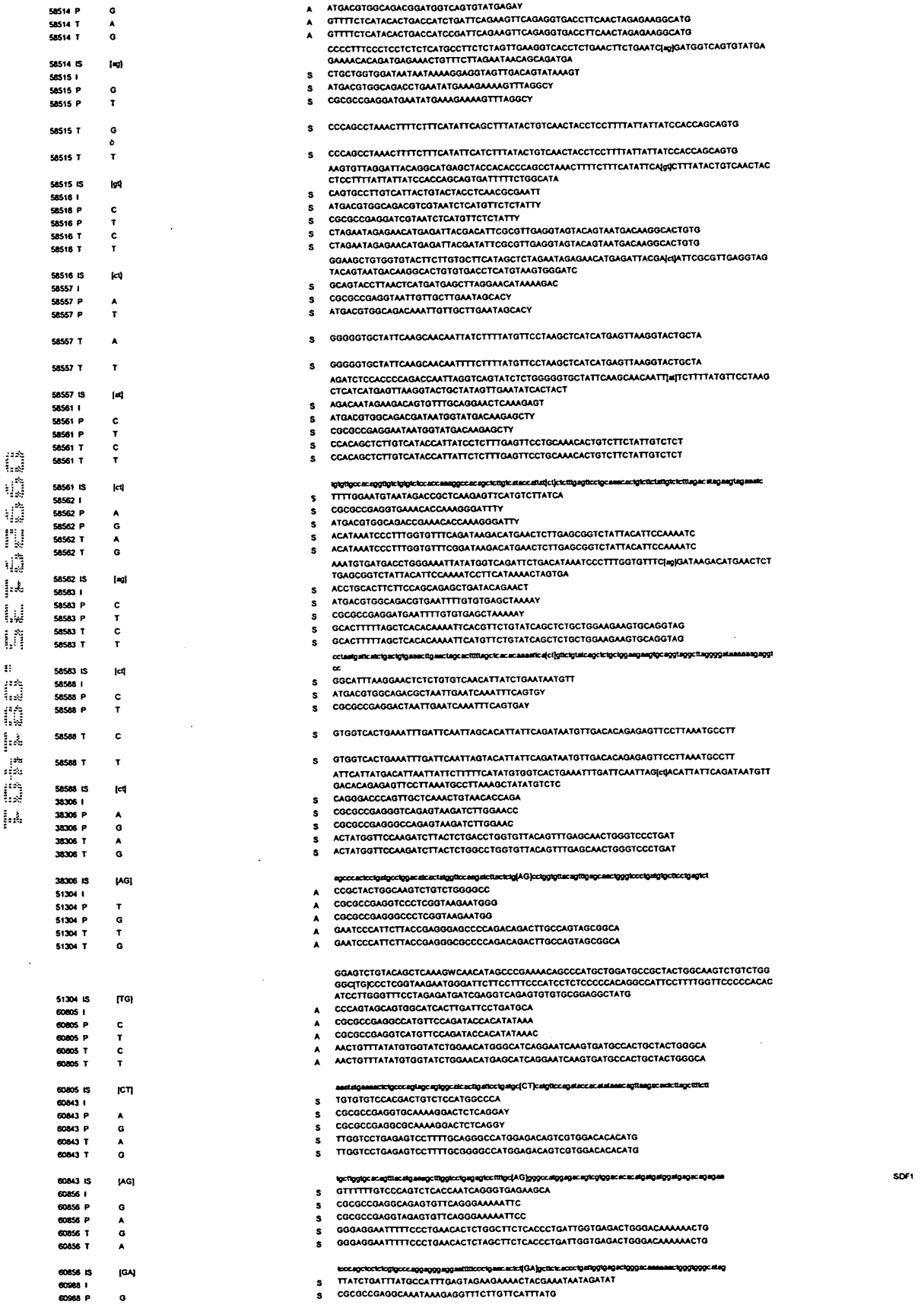
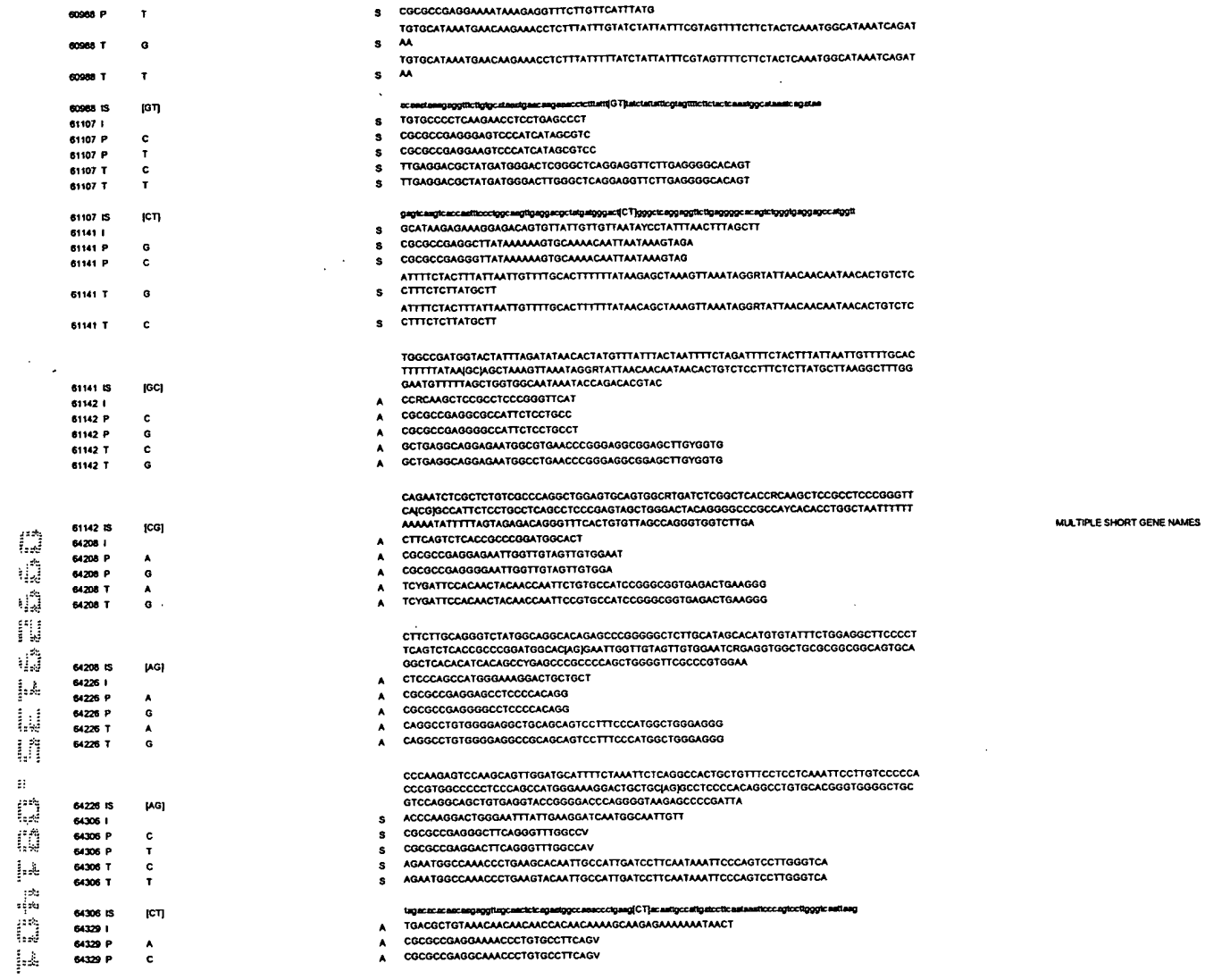
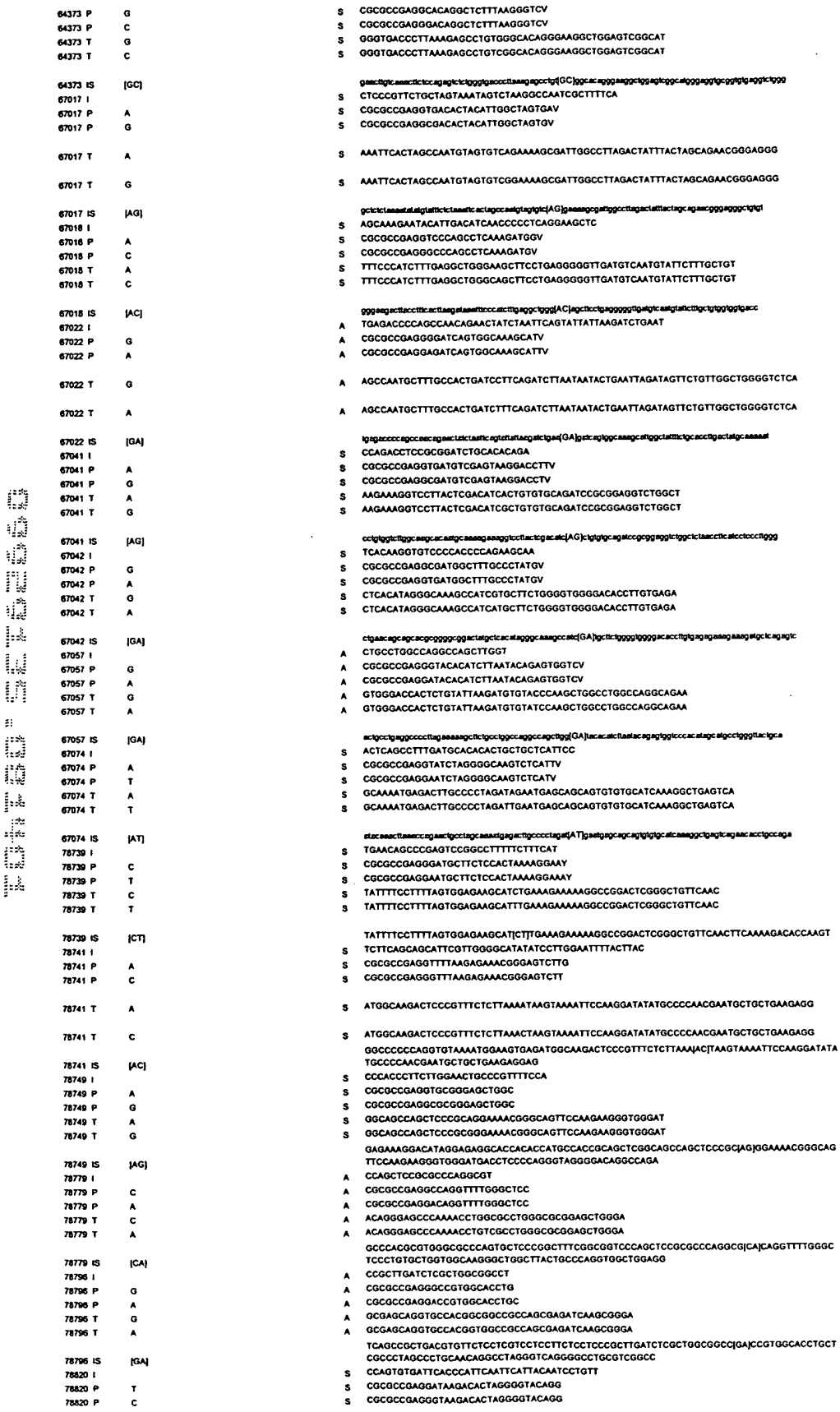

58514 P G A ATGACGTGGCAGACGGATGGTCAGTGTATGAGAY
58514 T A A GTTTTCTCATACACTGACCATCTGATTCAGAAGTTCAGAGGTGACCTTCAACTAGAGAAGGCATG
58514 T G A GTTTTCTCATACACTGACCATCCGATTCAGAAGTTCAGAGGTGACCTTCAACTAGAGAAGGCATG
CCCCTTTCCCTCCTCTCTCATGCCTTCTCTAGTTGAAGGTCACCTCTGAACTTCTGAATC[ag]GATGGTCAGTGTATGA
58514 IS [ag] GAAAACACAGATGAGAAACTGTTTCTTAGAATAACAGCAGATGA
58515 I S CTGCTGGTGGATAATAATAAAAGGAGGTAGTTGACAGTATAAAGT
58515 P G S ATGACGTGGCAGACCTGAATATGAAAGAAAAGTTTAGGCY
58515 P T S CGCGCCGAGGATGAATATGAAAGAAAAGTTTAGGCY
58515 T G S CCCAGCCTAAACTTTTCTTTCATATTCAGCTTTATACTGTCAACTACCTCCTTTTATTATTATCCACCAGCAGTG
58515 T T S CCCAGCCTAAACTTTTCTTTCATATTCATCTTTATACTGTCAACTACCTCCTTTTATTATTATCCACCAGCAGTG
AAGTGTTAGGATTACAGGCATGAGCTACCACACCCAGCCTAAACTTTTCTTTCATATTCA[gt]CTTTATACTGTCAACTAC
58515 IS [gt] CTCCTTTTATTATTATCCACCAGCAGTGATTTTTCTGGCATA
58518 I S CAGTGCCTTGTCATTACTGTACTACCTCAACGCGAATT
58518 P C S ATGACGTGGCAGACGTCGTAATCTCATGTTCTCTATTY
58516 P T S CGCGCCGAGGATCGTAATCTCATGTTCTCTATTY
58516 T C S CTAGAATAGAGAACATGAGATTACGACATTCGCGTTGAGGTAGTACAGTAATGACAAGGCACTGTG
58518 T T S CTAGAATAGAGAACATGAGATTACGATATTCGCGTTGAGGTAGTACAGTAATGACAAGGCACTGTG
GGAAGCTGTGGTGTACTTCTTGTGCTTCATAGCTCTAGAATAGAGAACATGAGATTACGA[ct]ATTCGCGTTGAGGTAG
58516 IS [ct] TACAGTAATGACAAGGCACTGTGTGACCTCATGTAAGTGGGATC
58557 I S GCAGTACCTTAACTCATGATGAGCTTAGGAACATAAAAGAC
58557 P A S CGCGCCGAGGTAATTGTTGCTTGAATAGCACY
58557 P T S ATGACGTGGCAGACAAATTGTTGCTTGAATAGCACY
58557 T A S GGGGGTGCTATTCAAGCAACAATTATCTTTTATGTTCCTAAGCTCATCATGAGTTAAGGTACTGCTA
58557 T T S GGGGGTGCTATTCAAGCAACAATTTTCTTTTATGTTCCTAAGCTCATCATGAGTTAAGGTACTGCTA
AGATCTCCACCCCAGACCAATTAGGTCAGTATCTCTGGGGGTGCTATTCAAGCAACAATT]st[TCTTTTATGTTCCTAAG
58557 IS [st] CTCATCATGAGTTAAGGTACTGCTATAGTTGAATATCACTACT
58561 I S AGACAATAGAAGACAGTGTTTGCAGGAACTCAAAGAGT
58561 P C S ATGACGTGGCAGACGATAATGGTATGACAAGAGCTY
58561 P T S CGCGCCGAGGAATAATGGTATGACAAGAGCTY
58561 T C S CCACAGCTCTTGTCATACCATTATCCTCTTTGAGTTCCTGCAAACACTGTCTTCTATTGTCTCT
58561 T T S CCACAGCTCTTGTCATACCATTATTCTCTTTGAGTTCCTGCAAACACTGTCTTCTATTGTCTCT
58561 IS [ct]
58562 I S TTTTGGAATGTAATAGACCGCTCAAGAGTTCATGTCTTATCA
58562 P A S CGCGCCGAGGTGAAACACCAAAGGGATTTY
58562 P G S ATGACGTGGCAGACCGAAACACCAAAGGGATTY
58562 T A S ACATAAATCCCTTTGGTGTTTCAGATAAGACATGAACTCTTGAGCGGTCTATTACATTCCAAAATC
58562 T G S ACATAAATCCCTTTGGTGTTTCGGATAAGACATGAACTCTTGAGCGGTCTATTACATTCCAAAATC
AAATGTGATGACCTGGGAAATTATATGGTCAGATTCTGACATAAATCCCTTTGGTGTTTC[ag]GATAAGACATGAACTCT
58562 IS [ag] TGAGCGGTCTATTACATTCCAAAATCCTTCATAAAACTAGTGA
58583 I S ACCTGCACTTCTTCCAGCAGAGCTGATACAGAACT
58583 P C S ATGACGTGGCAGACGTGAATTTTGTGTGAGCTAAAAY
58583 P T S CGCGCCGAGGATGAATTTTGTGTGAGCTAAAAAY
58583 T C S GCACTTTTTAGCTCACACAAAATTCACGTTCTGTATCAGCTCTGCTGGAAGAAGTGCAGGTAG
58583 T T S GCACTTTTTAGCTCACACAAAATTCATGTTCTGTATCAGCTCTGCTGGAAGAAGTGCAGGTAG
58583 IS [ct] cc
58588 I S GGCATTTAAGGAACTCTCTGTGTCAACATTATCTGAATAATGTT
58588 P C S ATGACGTGGCAGACGCTAATTGAATCAAATTTCAGTGY
58588 P T S CGCGCCGAGGACTAATTGAATCAAATTTCAGTGAY
58588 T C S GTGGTCACTGAAATTTGATTCAATTAGCACATTATTCAGATAATGTTGACACAGAGAGTTCCTTAAATGCCTT
58588 T T S GTGGTCACTGAAATTTGATTCAATTAGTACATTATTCAGATAATGTTGACACAGAGAGTTCCTTAAATGCCTT
ATTCATTATGACATTAATTATTCTTTTTCATATGTGGTCACTGAAATTTGATTCAATTAG[ct]ACATTATTCAGATAATGTT
58588 IS [ct] GACACAGAGAGTTCCTTAAATGCCTTAAAGCTATATGTCTC
38306 I S CAGGGACCCAGTTGCTCAAACTGTAACACCAGA
38306 P A S CGCGCCGAGGGTCAGAGTAAGATCTTGGAACC
38306 P G S CGCGCCGAGGGCCAGAGTAAGATCTTGGAAC
38306 T A S ACTATGGTTCCAAGATCTTACTCTGACCTGGTGTTACAGTTTGAGCAACTGGGTCCCTGAT
38306 T G S ACTATGGTTCCAAGATCTTACTCTGGCCTGGTGTTACAGTTTGAGCAACTGGGTCCCTGAT
38306 IS [AG]
51304 I A CCGCTACTGGCAAGTCTGTCTGGGGCC
51304 P T A CGCGCCGAGGTCCCTCGGTAAGAATGGG
51304 P G A CGCGCCGAGGGCCCTCGGTAAGAATGG
51304 T T A GAATCCCATTCTTACCGAGGGCGCCCCAGACAGACTTGCCAGTAGCGGCA
51304 T G A GAATCCCATTCTTACCGAGGGCGCCCCAGACAGACTTGCCAGTAGCGGCA
GGAGTCTGTACAGCTCAAAGWCAACATAGCCCGAAAACAGCCCATGCTGGATGCCGCTACTGGCAAGTCTGTCTGG
GGCTGTCCCTCGGTAAGAATGGGATTCTTCCTTTCCCATCCTCTCCCCCACAGGCCATTCCTTTTGGTTCCCCCACAC
58304 IS [TG] ATCCTTGGGTTTCCTAGAGATGATCGAGGTCAGAGTGTGTGCGGAGGCTATG
60805 I A CCCAGTAGCAGTGGCATCACTTGATTCCTGATGCA
60805 P C A CGCGCCGAGGCCATGTTCCAGATACCACATATAAA
60805 P T A CGCGCCGAGGTCATGTTCCAGATACCACATATAAAC
60805 T C A AACTGTTTATATGTGGTATCTGGAACATGGGCATCAGGAATCAAGTGATGCCACTGCTACTGGGCA
60805 T T A AACTGTTTATATGTGGTATCTGGAACATGAGCATCAGGAATCAAGTGATGCCACTGCTACTGGGCA
60805 IS [CT]
60843 I S TGTGTGTCCACGACTGTCTCCATGGCCCA
60843 P A S CGCGCCGAGGTGCAAAAGGACTCTCAGGAY
60843 P G S CGCGCCGAGGCGCAAAAGGACTCTCAGGY
60843 T A S TTGGTCCTGAGAGTCCTTTTGCAGGGCCATGGAGACAGTCGTGGACACACATG
60843 T G S TTGGTCCTGAGAGTCCTTTTGCGGGGCCATGGAGACAGTCGTGGACACACATG
60843 IS [AG] SDF1
60856 I S GTTTTTTGTCCCAGTCTCACCAATCAGGGTGAGAAGCA
60856 P G S CGCGCCGAGGCAGAGTGTTCAGGGAAAAATTC
60856 P A S CGCGCCGAGGTAGAGTGTTCAGGGAAAAATTCC
60856 T G S GGGAGGAATTTTTCCCTGAACACTCTGGCTTCTCACCCTGATTGGTGAGACTGGGACAAAAAACTG
60856 T A S GGGAGGAATTTTTCCCTGAACACTCTAGCTTCTCACCCTGATTGGTGAGACTGGGACAAAAAACTG
60856 IS [GA]
60988 I S TTATCTGATTTATGCCATTTGAGTAGAAGAAAACTACGAAATAATAGATAT
60988 P G S CGCGCCGAGGCAAATAAAGAGGTTTCTTGTTCATTTATG

FIGURE 129D



MULTIPLE SHORT GENE NAMES

FIGURE 129D


64373 P G S CGCGCCGAGGCACAGGCTCTTTAAGGGTCV
64373 P C S CGCGCCGAGGGACAGGCTCTTTAAGGGTCV
64373 T G S GGGTGACCCTTAAAGAGCCTGTGGGCACAGGGAAGGCTGGAGTCGGCAT
64373 T C S GGGTGACCCTTAAAGAGCCTGTCGGCACAGGGAAGGCTGGAGTCGGCAT
64373 IS [GC]
67017 I S CTCCCGTTCTGCTAGTAAATAGTCTAAGGCCAATCGCTTTTCA
67017 P A S CGCGCCGAGGTGACACTACATTGGCTAGTGAV
67017 P G S CGCGCCGAGGCGACACTACATTGGCTAGTGV
67017 T A S AAATTCACTAGCCAATGTAGTGTCAGAAAAGCGATTGGCCTTAGACTATTTACTAGCAGAACGGGAGGG
67017 T G S AAATTCACTAGCCAATGTAGTGTCGGAAAAGCGATTGGCCTTAGACTATTTACTAGCAGAACGGGAGGG
67017 IS [AG]
67018 I S AGCAAAGAATACATTGACATCAACCCCCTCAGGAAGCTC
67018 P A S CGCGCCGAGGTCCCAGCCTCAAAGATGGV
67018 P C S CGCGCCGAGGGCCCAGCCTCAAAGATGV
67018 T A S TTTCCCATCTTTGAGGCTGGGAAGCTTCCTGAGGGGGTTGATGTCAATGTATTCTTTGCTGT
67018 T C S TTTCCCATCTTTGAGGCTGGGCAGCTTCCTGAGGGGGTTGATGTCAATGTATTCTTTGCTGT
67018 IS [AC]
67022 I A TGAGACCCCAGCCAACAGAACTATCTAATTCAGTATTATTAAGATCTGAAT
67022 P G A CGCGCCGAGGGGATCAGTGGCAAAGCATV
67022 P A A CGCGCCGAGGAGATCAGTGGCAAAGCATTV
67022 T G A AGCCAATGCTTTGCCACTGATCCTTCAGATCTTAATAATACTGAATTAGATAGTTCTGTTGGCTGGGGTCTCA
67022 T A A AGCCAATGCTTTGCCACTGATCTTTCAGATCTTAATAATACTGAATTAGATAGTTCTGTTGGCTGGGGTCTCA
67022 IS [GA]
67041 I S CCAGACCTCCGCGGATCTGCACACAGA
67041 P A S CGCGCCGAGGTGATGTCGAGTAAGGACCTTV
67041 P G S CGCGCCGAGGCGATGTCGAGTAAGGACCTV
67041 T A S AAGAAAGGTCCTTACTCGACATCACTGTGTGCAGATCCGCGGAGGTCTGGCT
67041 T G S AAGAAAGGTCCTTACTCGACATCGCTGTGTGCAGATCCGCGGAGGTCTGGCT
67041 IS [AG]
67042 I S TCACAAGGTGTCCCCACCCCAGAAGCAA
67042 P G S CGCGCCGAGGCGATGGCTTTGCCCTATGV
67042 P A S CGCGCCGAGGTGATGGCTTTGCCCTATGV
67042 T G S CTCACATAGGGCAAAGCCATCGTGCTTCTGGGGTGGGGACACCTTGTGAGA
67042 T A S CTCACATAGGGCAAAGCCATCATGCTTCTGGGGTGGGGACACCTTGTGAGA
67042 IS [GA]
67057 I A CTGCCTGGCCAGGCCAGCTTGGT
67057 P G A CGCGCCGAGGGTACACATCTTAATACAGAGTGGTCV
67057 P A A CGCGCCGAGGATACACATCTTAATACAGAGTGGTCV
67057 T G A GTGGGACCACTCTGTATTAAGATGTGTACCCAAGCTGGCCTGGCCAGGCAGAA
67057 T A A GTGGGACCACTCTGTATTAAGATGTGTATCCAAGCTGGCCTGGCCAGGCAGAA
67057 IS [GA]
67074 I S ACTCAGCCTTTGATGCACACACTGCTGCTCATTCC
67074 P A S CGCGCCGAGGTATCTAGGGGCAAGTCTCATTV
67074 P T S CGCGCCGAGGAATCTAGGGGCAAGTCTCATV
67074 T A S GCAAAATGAGACTTGCCCCTAGATAGAATGAGCAGCAGTGTGTGCATCAAAGGCTGAGTCA
67074 T T S GCAAAATGAGACTTGCCCCTAGATTGAATGAGCAGCAGTGTGTGCATCAAAGGCTGAGTCA
67074 IS [AT]
78739 I S TGAACAGCCCGAGTCCGGCCTTTTTCTTTCAT
78739 P C S CGCGCCGAGGGATGCTTCTCCACTAAAAGGAAY
78739 P T S CGCGCCGAGGAATGCTTCTCCACTAAAAGGAAAY
78739 T C S TATTTTCCTTTTAGTGGAGAAGCATCTGAAAGAAAAAGGCCGGACTCGGGCTGTTCAAC
78739 T T S TATTTTCCTTTTAGTGGAGAAGCATTTGAAAGAAAAAGGCCGGACTCGGGCTGTTCAAC
78739 IS [CT]
78741 I S TCTTCAGCAGCATTCGTTGGGGCATATATCCTTGGAATTTTACTTAC
78741 P A S CGCGCCGAGGTTTTAAGAGAAACGGGAGTCTTG
78741 P C S CGCGCCGAGGGTTTAAGAGAAACGGGAGTCTT
78741 T A S ATGGCAAGACTCCCGTTTCTCTTAAAATAAGTAAAATTCCAAGGATATATGCCCCAACGAATGCTGCTGAAGAGG
78741 T C S ATGGCAAGACTCCCGTTTCTCTTAAACTAAGTAAAATTCCAAGGATATATGCCCCAACGAATGCTGCTGAAGAGG
78741 IS [AC]
78749 I S CCCACCCTTCTTGGAACTGCCCGTTTTCCA
78749 P A S CGCGCCGAGGTGCGGGAGCTGGC
78749 P G S CGCGCCGAGGCGCGGGAGCTGGC
78749 T A S GGCAGCCAGCTCCCGCAGGAAAACGGGCAGTTCCAAGAAGGGTGGGAT
78749 T G S GGCAGCCAGCTCCCGCGGGAAAACGGGCAGTTCCAAGAAGGGTGGGAT
78749 IS [AG]
78779 I A CCAGCTCCGCGCCCAGGCGT
78779 P C A CGCGCCGAGGCCAGGTTTTGGGCTCC
78779 P A A CGCGCCGAGGACAGGTTTTGGGCTCC
78779 T C A ACAGGGAGCCCAAAACCTGGCGCCTGGGCGCGGAGCTGGGA
78779 T A A ACAGGGAGCCCAAAACCTGTCGCCTGGGCGCGGAGCTGGGA
78779 IS [CA]
78796 I A CCGCTTGATCTCGCTGGCGGCCT
78796 P G A CGCGCCGAGGGCCGTGGCACCTG
78796 P A A CGCGCCGAGGACCGTGGCACCTGC
78796 T G A GCGAGCAGGTGCCACGGCGGCCGCCAGCGAGATCAAGCGGGA
78796 T A A GCGAGCAGGTGCCACGGTGGCCGCCAGCGAGATCAAGCGGGA
78796 IS [GA]
78820 I S CCAGTGTGATTCACCCATTCAATTCATTACAATCCTGTT
78820 P T S CGCGCCGAGGATAAGACACTAGGGGTACAGG
78820 P C S CGCGCCGAGGGTAAGACACTAGGGGTACAGG

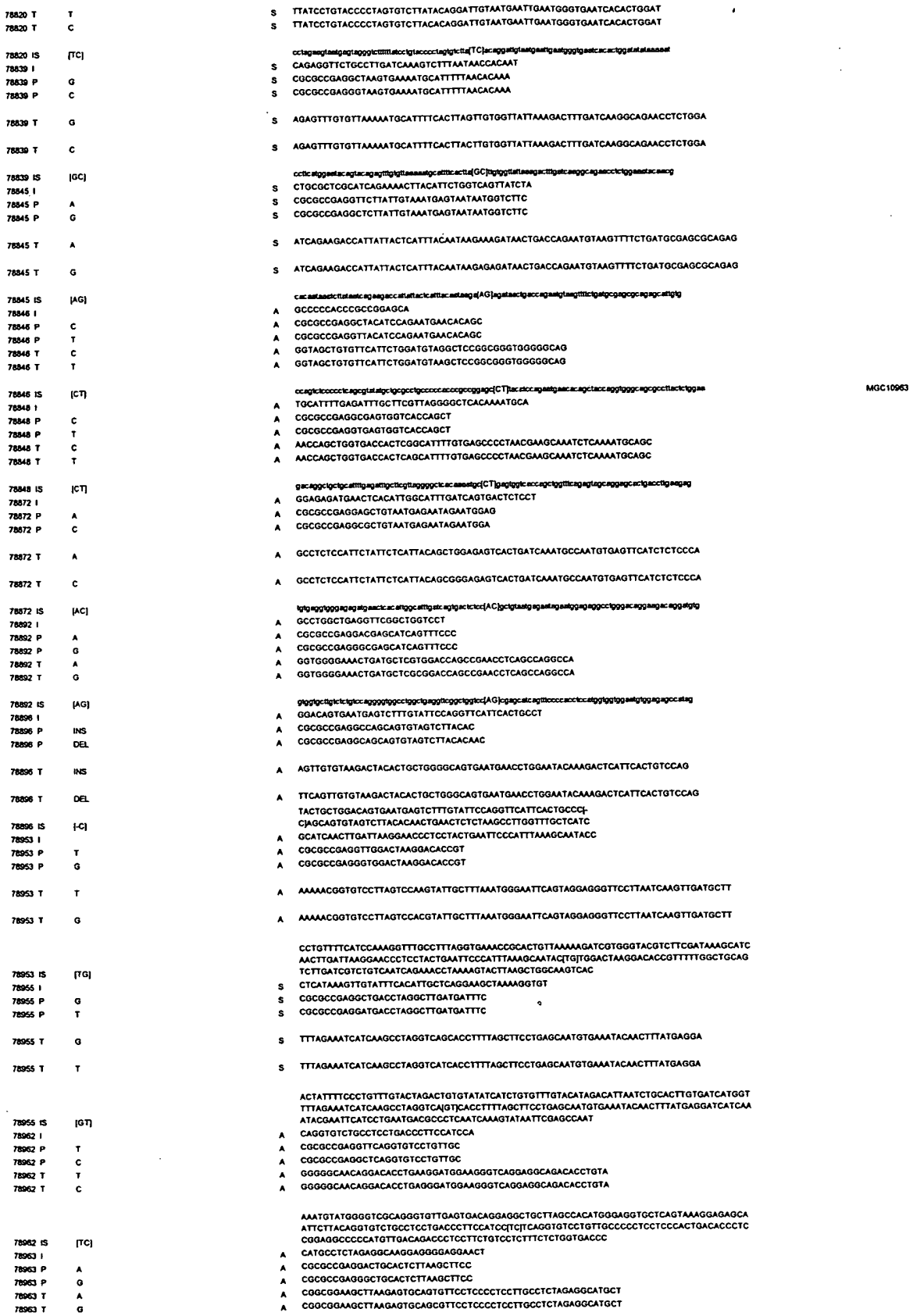


FIGURE 129D

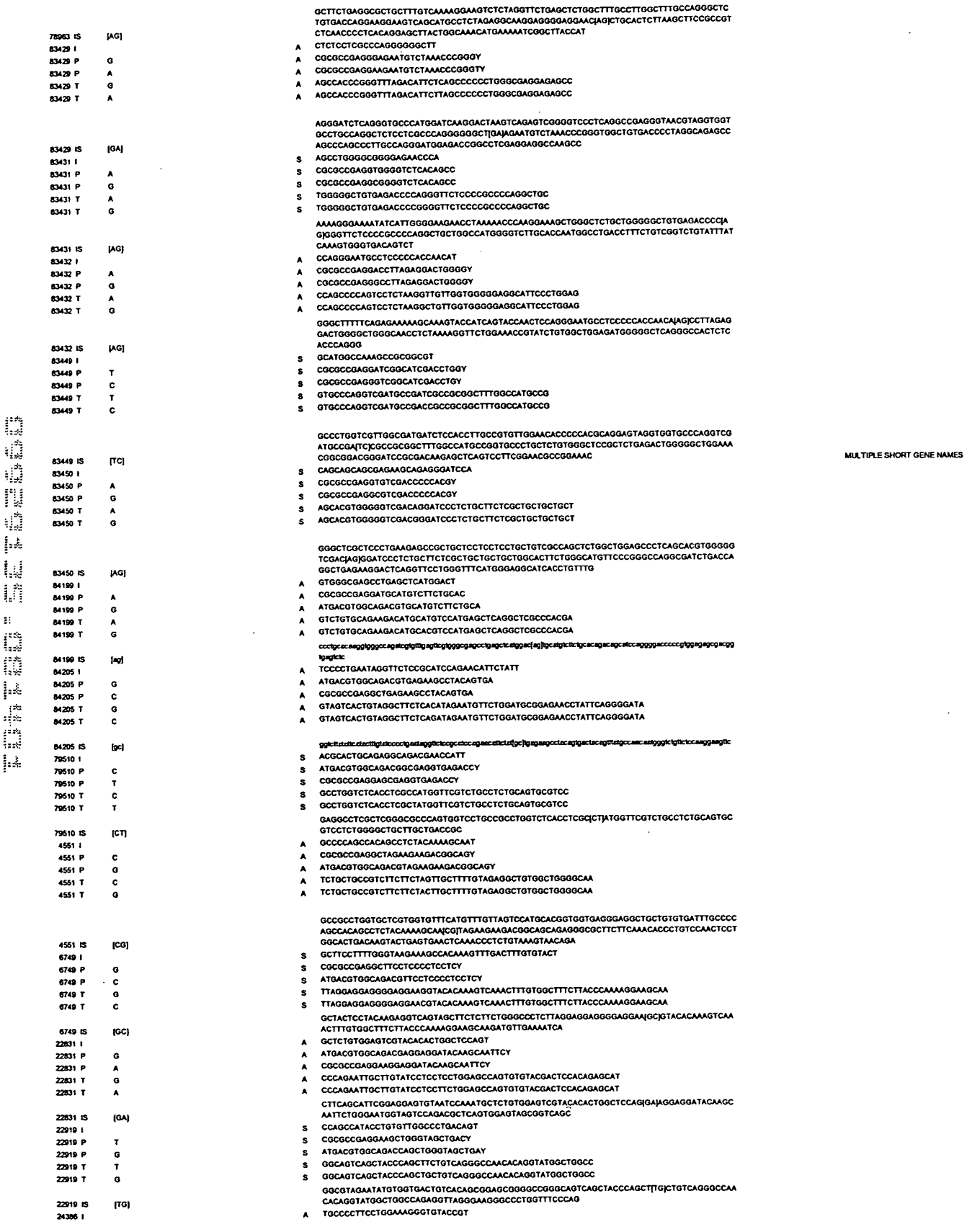


FIGURE 129D

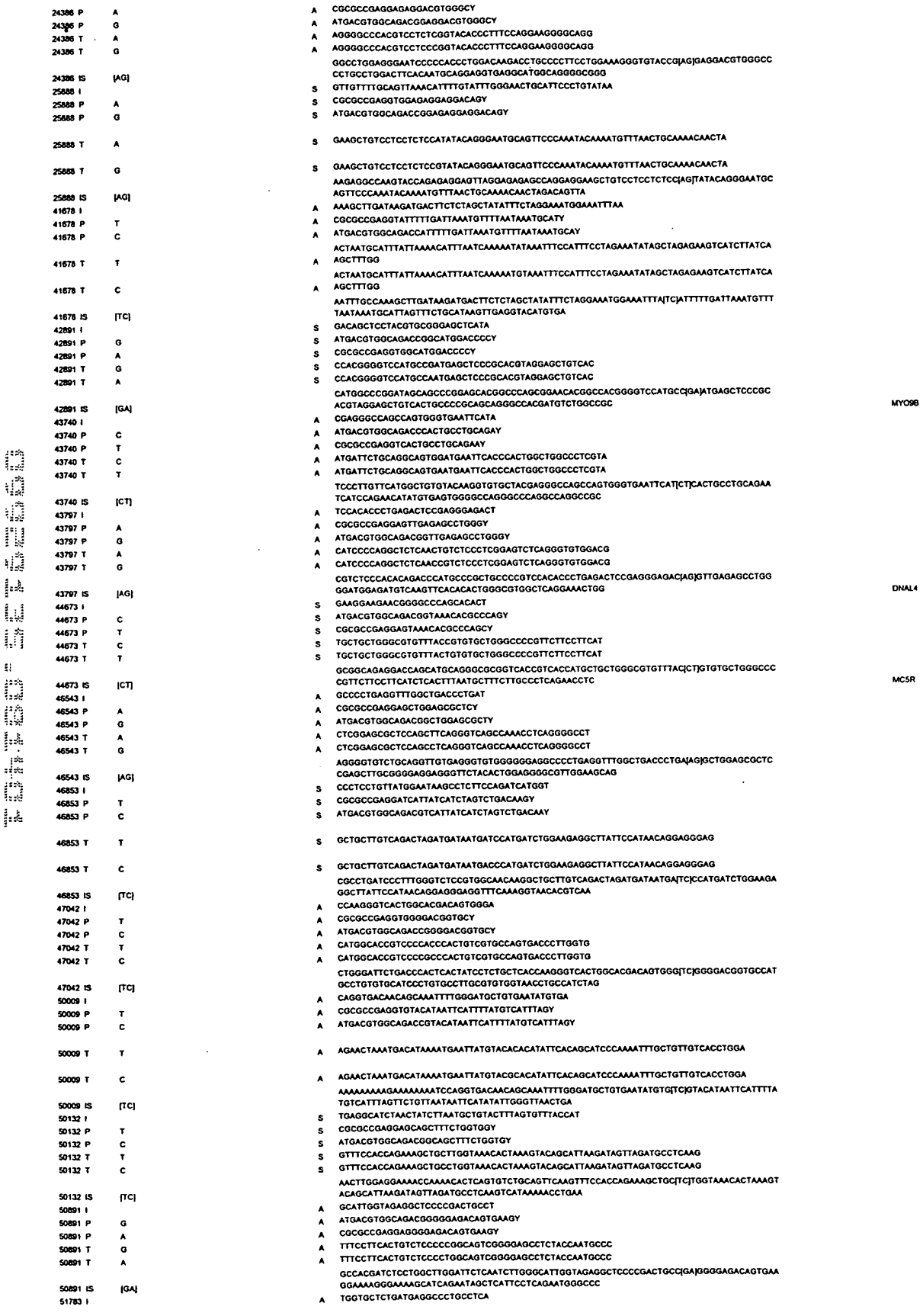

24386 P A A CGCGCCGAGGAGAGGACGTGGGCY
24386 P G A ATGACGTGGCAGACGGAGGACGTGGGCY
24386 T A A AGGGGCCCACGTCCTCTCGGTACACCCTTTCCAGGAAGGGGCAGG
24386 T G A AGGGGCCCACGTCCTCCCGGTACACCCTTTCCAGGAAGGGGCAGG
GGCCTGGAGGGAATCCCCCACCCTGGACAAGACCTGCCCCTTCCTGGAAAGGGTGTACCG[AG]GAGGACGTGGGCC
24386 IS [AG] CCTGCCTGGACTTCACAATGCAGGAGGTGAGGCATGGCAGGGGCGGG
25888 I S GTTGTTTTGCAGTTAAACATTTTGTATTTGGGAACTGCATTCCCTGTATAA
25888 P A S CGCGCCGAGGTGGAGAGGAGGACAGY
25888 P G S ATGACGTGGCAGACCGGAGAGGAGGACAGY
25888 T A S GAAGCTGTCCTCCTCTCCATATACAGGGAATGCAGTTCCCAAATACAAAATGTTTAACTGCAAAACAACTA
25888 T G S GAAGCTGTCCTCCTCTCCGTATACAGGGAATGCAGTTCCCAAATACAAAATGTTTAACTGCAAAACAACTA
AAGAGGCCAAGTACCAGAGAGGAGTTAGGAGAGAGCCAGGAGGAAGCTGTCCTCCTCTCC[AG]TATACAGGGAATGC
25888 IS [AG] AGTTCCCAAATACAAAATGTTTAACTGCAAAACAACTAGACAGTTA
41678 I A AAAGCTTGATAAGATGACTTCTCTAGCTATATTTCTAGGAAATGGAAATTTAA
41678 P T A CGCGCCGAGGTATTTTTGATTAAATGTTTTAATAAATGCATY
41678 P C A ATGACGTGGCAGACCATTTTTGATTAAATGTTTTAATAAATGCAY
ACTAATGCATTTATTAAAACATTTAATCAAAAATATAAATTTCCATTTCCTAGAAATATAGCTAGAGAAGTCATCTTATCA
41678 T T A AGCTTTGG
ACTAATGCATTTATTAAAACATTTAATCAAAAATGTAAATTTCCATTTCCTAGAAATATAGCTAGAGAAGTCATCTTATCA
41678 T C A AGCTTTGG
AATTTGCCAAAGCTTGATAAGATGACTTCTCTAGCTATATTTCTAGGAAATGGAAATTTA[TC]ATTTTTGATTAAATGTTT
41678 IS [TC] TAATAAATGCATTAGTTTCTGCATAAGTTGAGGTACATGTGA
42891 I S GACAGCTCCTACGTGCGGGAGCTCATA
42891 P G S ATGACGTGGCAGACCGGCATGGACCCCY
42891 P A S CGCGCCGAGGTGGCATGGACCCCY
42891 T G S CCACGGGGTCCATGCCGATGAGCTCCCGCACGTAGGAGCTGTCAC
42891 T A S CCACGGGGTCCATGCCAATGAGCTCCCGCACGTAGGAGCTGTCAC
CATGGCCCGGATAGCAGCCCGGAGCACGGCCCAGCGGAACACGGCCACGGGGTCCATGCC[GA]ATGAGCTCCCGC
42891 IS [GA] ACGTAGGAGCTGTCACTGCCCCGCAGCAGGGCCACGATGTCTGGCCGC MYO9B
43740 I A CGAGGGCCAGCCAGTGGGTGAATTCATA
43740 P C A ATGACGTGGCAGACCCACTGCCTGCAGAY
43740 P T A CGCGCCGAGGTCACTGCCTGCAGAAY
43740 T C A ATGATTCTGCAGGCAGTGGATGAATTCACCCACTGGCTGGCCCTCGTA
43740 T T A ATGATTCTGCAGGCAGTGAATGAATTCACCCACTGGCTGGCCCTCGTA
TCCCTTGTTCATGGCTGTGTACAAGGTGTGCTACGAGGGCCAGCCAGTGGGTGAATTCAT[CT]CACTGCCTGCAGAA
43740 IS [CT] TCATCCAGAACATATGTGAGTGGGGCCAGGGCCCAGGCCAGGCCGC
43797 I A TCCACACCCTGAGACTCCGAGGGAGACT
43797 P A A CGCGCCGAGGAGTTGAGAGCCTGGGY
43797 P G A ATGACGTGGCAGACGGTTGAGAGCCTGGGY
43797 T A A CATCCCCAGGCTCTCAACTGTCTCCCTCGGAGTCTCAGGGTGTGGACG
43797 T G A CATCCCCAGGCTCTCAACCGTCTCCCTCGGAGTCTCAGGGTGTGGACG
CGTCTCCCACACAGACCCATGCCCGCTGCCCCGTCCACACCCTGAGACTCCGAGGGAGAC[AG]GTTGAGAGCCTGG
43797 IS [AG] GGATGGAGATGTCAAGTTCACACACTGGGCGTGGCTCAGGAAACTGG DNAL4
44673 I S GAAGGAAGAACGGGGCCCAGCACACT
44673 P C S ATGACGTGGCAGACGGTAAACACGCCCAGY
44673 P T S CGCGCCGAGGAGTAAACACGCCCAGCY
44673 T C S TGCTGCTGGGCGTGTTTACCGTGTGCTGGGCCCCGTTCTTCCTTCAT
44673 T T S TGCTGCTGGGCGTGTTTACTGTGTGCTGGGCCCCGTTCTTCCTTCAT
GCGGCAGAGGACCAGCATGCAGGGCGCGGTCACCGTCACCATGCTGCTGGGCGTGTTTAC[CT]GTGTGCTGGGCCC
44673 IS [CT] CGTTCTTCCTTCATCTCACTTTAATGCTTTCTTGCCCTCAGAACCTC MC5R
46543 I A GCCCCTGAGGTTTGGCTGACCCTGAT
46543 P A A CGCGCCGAGGAGCTGGAGCGCTCY
46543 P G A ATGACGTGGCAGACGGCTGGAGCGCTY
46543 T A A CTCGGAGCGCTCCAGCTTCAGGGTCAGCCAAACCTCAGGGGCCT
46543 T G A CTCGGAGCGCTCCAGCCTCAGGGTCAGCCAAACCTCAGGGGCCT
AGGGGTGTCTGCAGGTTGTGAGGGTGTGGGGGGAGGCCCCTGAGGTTTGGCTGACCCTGA[AG]GCTGGAGCGCTC
46543 IS [AG] CGAGCTTGCGGGGAGGAGGGTTCTACACTGGAGGGGCGTTGGAAGCAG
46853 I S CCCTCCTGTTATGGAATAAGCCTCTTCCAGATCATGGT
46853 P T S CGCGCCGAGGATCATTATCATCTAGTCTGACAAGY
46853 P C S ATGACGTGGCAGACGTCATTATCATCTAGTCTGACAAY
46853 T T S GCTGCTTGTCAGACTAGATGATAATGATCCATGATCTGGAAGAGGCTTATTCCATAACAGGAGGGAG
46853 T C S GCTGCTTGTCAGACTAGATGATAATGACCCATGATCTGGAAGAGGCTTATTCCATAACAGGAGGGAG
CGCCTGATCCCTTTGGGTCTCCGTGGCAACAAGGCTGCTTGTCAGACTAGATGATAATGA[TC]CCATGATCTGGAAGA
46853 IS [TC] GGCTTATTCCATAACAGGAGGGAGGTTTCAAAGGTAACACGTCAA
47042 I A CCAAGGGTCACTGGCACGACAGTGGGA
47042 P T A CGCGCCGAGGTGGGGACGGTGCY
47042 P C A ATGACGTGGCAGACCGGGGACGGTGCY
47042 T T A CATGGCACCGTCCCCACCCACTGTCGTGCCAGTGACCCTTGGTG
47042 T C A CATGGCACCGTCCCCGCCCACTGTCGTGCCAGTGACCCTTGGTG
CTGGGATTCTGACCCACTCACTATCCTCTGCTCACCAAGGGTCACTGGCACGACAGTGGG[TC]GGGGACGGTGCCAT
47042 IS [TC] GCCTGTGTGCATCCCTGTGCCTTGCGTGTGGTAACCTGCCATCTAG
50009 I A CAGGTGACAACAGCAAATTTTGGGATGCTGTGAATATGTGA
50009 P T A CGCGCCGAGGTGTACATAATTCATTTTATGTCATTTAGY
50009 P C A ATGACGTGGCAGACCGTACATAATTCATTTTATGTCATTTAGY
50009 T T A AGAACTAAATGACATAAAATGAATTATGTACACACATATTCACAGCATCCCAAAATTTGCTGTTGTCACCTGGA
50009 T C A AGAACTAAATGACATAAAATGAATTATGTACGCACATATTCACAGCATCCCAAAATTTGCTGTTGTCACCTGGA
AAAAAAAAGAAAAAAAATCCAGGTGACAACAGCAAATTTTGGGATGCTGTGAATATGTG[TC]GTACATAATTCATTTTA
50009 IS [TC] TGTCATTTAGTTCTGTTAATAATTCATATATTGGGTTAACTGA
50132 I S TGAGGCATCTAACTATCTTAATGCTGTACTTTAGTGTTTACCAT
50132 P T S CGCGCCGAGGAGCAGCTTTCTGGTGGY
50132 P C S ATGACGTGGCAGACGGCAGCTTTCTGGTGY
50132 T T S GTTTCCACCAGAAAGCTGCTTGGTAAACACTAAAGTACAGCATTAAGATAGTTAGATGCCTCAAG
50132 T C S GTTTCCACCAGAAAGCTGCCTGGTAAACACTAAAGTACAGCATTAAGATAGTTAGATGCCTCAAG
AACTTGGAGGAAAACCAAAACACTCAGTGTCTGCAGTTCAAGTTTCCACCAGAAAGCTGC[TC]TGGTAAACACTAAAGT
50132 IS [TC] ACAGCATTAAGATAGTTAGATGCCTCAAGTCATAAAAACCTGAA
50891 I A GCATTGGTAGAGGCTCCCCGACTGCCT
50891 P G A ATGACGTGGCAGCGGGGGAGACAGTGAAGY
50891 P A A CGCGCCGAGGAGGGGAGACAGTGAAGY
50891 T G A TTTCCTTCACTGTCTCCCCCGGCAGTCGGGGAGCCTCTACCAATGCCC
50891 T A A TTTCCTTCACTGTCTCCCCTGGCAGTCGGGGAGCCTCTACCAATGCCC
GCCACGATCTCCTGGCTTGGATTCTCAATCTTGGGCATTGGTAGAGGCTCCCCGACTGCC[GA]GGGGAGACAGTGAA
50891 IS [GA] GGAAAAGGGAAAAGCATCAGAATAGCTCATTCCTCAGAATGGGCCC
51783 I A TGGTGCTCTGATGAGGCCCTGCCTCA

FIGURE 129D

51783 P	C	A	ATGACGTGGCAGACCGGGCTCACCTCGV		
51783 P	T	A	CGCGCCGAGGTGGGCTCACCTCG		
51783 T	C	A	ACAGCGAGGTGAGCCCGGAGGCAGGGCCTCATCAGAGCACCAGG		
51783 T	T	A	ACAGCGAGGTGAGCCCAGAGGCAGGGCCTCATCAGAGCACCAGG		
51783 IS	[CT]		GCCAGCAGTGCCTGGCTGTGAGCCCCATGTGTGCCTGGTGCTCTGATGAGGCCCTGCCTC[CT]GGGCTCACCTCGC TGTGACCTGAAGGAGAATCTGCTGAAGGATAACTGTGCCCCAGAATC	ITGB3	
51786 I		A	ACCAGCAGGCAGCTGCTCCGGA		
51786 P	C	A	ATGACGTGGCAGACCTTTGGGGTATCTGGGV		
51786 P	T	A	CGCGCCGAGGTTTTGGGGTATCTGGGCV		
51786 T	C	A	TGGAGCCCAGATACCCCAAAGCCGGAGCAGCTGCCTGCTGGTGC		
51786 T	T	A	TGGAGCCCAGATACCCCAAAACCGGAGCAGCTGCCTGCTGGTGC		
51786 IS	[CT]		ACCAGCACTAGCAGCATGTTGAGCCGGGCAGTGTGCGGCACCAGCAGGCAGCTGCTCCGG[CT]TTTGGGGTATCTG GGCTCCAGGCAGAAGCACAGCCTCCCCGACCTGCCCTACGACTACGG		
52212 I		S	CGAGTAGGCTCGAAGGAGATGGTGGCCT		
52212 P	T	S	CGCGCCGAGGAGGGTCCCGTCCAY		
52212 P	C	S	ATGACGTGGCAGACGGGGTCCCGTCCY		
52212 T	T	S	GGGCTGGACGGGACCCTGGCCACCATCTCCTTCGAGCCTACTCGTG		
52212 T	C	S	GGGCTGGACGGGACCCCGGCCACCATCTCCTTCGAGCCTACTCGTG		
52212 IS	[TC]		TGCTGCCAGGCCTTCCTCCCTCTGGACACCCAGGCACTGGGCATGGGCTGGACGGGACCC[TC]GGCCACCATCTCC TTCGAGCCTACTCGTGGCCGGTGAAGAAAGCCAGGCATGAGAGGAGC		
61182 I		S	TGGCTCTGGTAAGGAACTGAAGAGGCTAGCCT		
61182 P	C	S	ATGACGTGGCAGACGGGGTGCCTCTGACY		
61182 P	T	S	CGCGCCGAGGAGGGTGCCTCTGACY		
61182 T	C	S	AGGCGTCAGAGGCACCCCGGCTAGCCTCTTCAGTTCCTTACCAGAGCCAGA		
61182 T	T	S	AGGCGTCAGAGGCACCCTGGCTAGCCTCTTCAGTTCCTTACCAGAGCCAGA		
61182 IS	[CT]		CAGGCACCGGGCGTAGAGAGGCCAGGGGAATCTTGCCCTCTCCAGGCGTCAGAGGCACCC[CT]GGCTAGCCTCTTC AGTTCCTTACCAGAGCCAGAAACTGAGCGGGAAGGGGTTTCTGTCTC		
61353 I		A	GTGGAGGAGGCTGCAATGCCAGGGT		
61353 P	G	A	ATGACGTGGCAGACGGCATGATGAGGAGGGY		
61353 P	C	A	CGCGCCGAGGCGCATGATGAGGAGGY		
61353 T	G	A	TCACCCCTCCTCATCATGCCCCCTGGCATTGCAGCCTCCTCCACCT		
61353 T	C	A	TCACCCCTCCTCATCATGCGCCCTGGCATTGCAGCCTCCTCCACCT		
61353 IS	[GC]		TGCTGGCAGGGCCCAGCCTGAGCAGCACCAGTACAGGTGGAGGAGGCTGCAATGCCAGGG[GC]GCATGATGAGGA GGGGTGAGGTGGCAGGTGGGTGAGCTGTTAGCCAAATTGTCCTGTGGG		
61394 I		S	CCTCGTTCTCCTCCTCCTCCTCGAGCTT		
61394 P	G	S	ATGACGTGGCAGACCCACAGCGCCCAY		
61394 P	T	S	CGCGCCGAGGACACAGCGCCCACY		
61394 T	G	S	GGCAGTGGGCGCTGTGGAGCTCGAGGAGGAGGAGGAGGAACGAGGAG		
61394 T	T	S	GGCAGTGGGCGCTGTGTAGCTCGAGGAGGAGGAGGAGGAACGAGGAG		
61394 IS	[GT]		AGAGAAGCCCCGACCCTTCGCCTAACCTCGGGGGCCGGCCTGGAGGCAGTGGGCGCTGTG[GT]AGCTCGAGGAGG AGGAGGAGAACGAGGAGGAGGCGGCGGCCAGGAGAGCGCGGAGTTTCG		
61505 I		S	CCGATTTTCATAGTTCCCTGTGGCTCCGAGCA		
61505 P	A	S	CGCGCCGAGGTGAGGGAGCCGCY		
61505 P	G	S	ATGACGTGGCAGACCGAGGGAGCCGCY		
61505 T	A	S	CACCGCGGCTCCCTCAGCTCGGAGCCACAGGGAACTATGAAAATCGGCA		
61505 T	G	S	CACCGCGGCTCCCTCGGCTCGGAGCCACAGGGAACTATGAAAATCGGCA		
61505 IS	[AG]		TCCCTGTTTTCTTCAGCACTGAGATCACTGGTTCCCTCCGTTCCACACCGCGGCTCCCTC[AG]GCTCGGAGCCACAG GGAACTATGAAAATCGGCACGCGAGGCCTAAGTGTCCCCAGAACCA		
61637 I		A	GGATGATACAGCAGAAATAACATTTCCAGTGTAATGAGAGATAAAGAGGAATACTGA		
61637 P	C	A	ATGACGTGGCAGACCCCACCGAGGAAATGAY		
61637 P	T	A	CGCGCCGAGGTCCACCGAGGAAATGAY		
61637 T	C	A	AAAGTCATTTCCTCGGTGGGCAGTATTCCTCTTTATCTCTCATTACACTGGAAATGTTATTTCTGCTGTATCATCCGT		
61637 T	T	A	AAAGTCATTTCCTCGGTGGACAGTATTCCTCTTTATCTCTCATTACACTGGAAATGTTATTTCTGCTGTATCATCCGT		
61637 IS	[CT]		GCACGGATGATACAGCAGAAATAACATTTCCAGTGTAATGAGAGATAAAGAGGAATACTG[CT]CCACCGAGGAAATGA CTTTCTTCACCATGCTGACCACACTGCACAGCGCCCGATCCGGCT		
61743 I		S	GCTGGAGTTGGCTCCATAACAAAGTGACCCTC		
61743 P	A	S	CGCGCCGAGGTGAGCGTGGAAAAGCY		
61743 P	C	S	ATGACGTGGCAGACGGAGCGTGGAAAAGCY		
61743 T	A	S	GTCTGCTTTTCCACGCTCAAGGGTCACTTTGTTATGGAGCCAACTCCAGCTC		
61743 T	C	S	GTCTGCTTTTCCACGCTCCAGGGTCACTTTGTTATGGAGCCAACTCCAGCTC		
61743 IS	[AC]		CCACTCGCCTTTCAGACTGGTTTATGGCGAGGCTGGTTGCTGGTCTGCTTTTCCACGCTC[AC]AGGGTCACTTTGTTA TGGAGCCAACTCCAGCTCTCCTTGCCTTTGTGGTTTCTGTCTTCT	FLJ14327	
61756 I		A	GCTCTGTGGTAAAACATTATGAGGGTGCAGCATAATGCA		
61756 P	T	A	CGCGCCGAGGTTACTCACTCTTAGCAGTATACAY		
61756 P	C	A	ATGACGTGGCAGACCTACTCACTCTTAGCAGTATACY		
61756 T	T	A	TTCTTGTATACTGCTAAGAGTGAGTAAGCATTATGCTGCACCCTCATAATGTTTTACCACAGAGCCT		
61756 T	C	A	TTCTTGTATACTGCTAAGAGTGAGTAGGCATTATGCTGCACCCTCATAATGTTTTACCACAGAGCCT		
61756 IS	[TC]		TTCTTTATAAACAGTTTTAAAGGCTCTGTGGTAAAACATTATGAGGGTGCAGCATAATGC[TC]TACTCACTCTTAGCAG TATACAAGAAGGCTGTTTTCAATTTTTCACTATGATTAACGATG		
61821 I		S	TGCTTAAGCCACAAGTTGAACAGTCTTCCATCCTCCT		
61821 P	C	S	ATGACGTGGCAGACGAGCTGTCTTCTGGCTY		
61821 P	T	S	CGCGCCGAGGAAGCTGTCTTCTGGCTY		
61821 T	C	S	CCTCAGCCAGAAGACAGCTCGGAGGATGGAAGACTGTTCAACTTGTGGCTTAAGCACA		
61821 T	T	S	CCTCAGCCAGAAGACAGCTTGGAGGATGGAAGACTGTTCAACTTGTGGCTTAAGCACA		
61821 IS	[CT]		CTACCCGTTCCTCCACCGCCCACCAAGCCCAGAGCAGCCTCCCTCAGCCAGAAGACAGC[CT]CTGGAGGATGGAAGAC TGTTCAACTTGTGGCTTAAGCACATTATTAAAACCAAAGAGGAAAA		
61927 I		S	CGAACCCACCTAAGTCTATCGTTTACCTATGACATTTCTACTATCCAA		
61927 P	A	S	CGCGCCGAGGTAGTATTCAAGTTAAAAAGTCAACAAY		
61927 P	G	S	ATGACGTGGCAGACCAGTATTCAAGTTAAAAAGTCAACAY		
61927 T	A	S	TGTCTTGTTGACTTTTTAACTTGAATACTATGGATAGTAGAAATGTCATAGGTAAACGATAGACTTAGGTGGGTTCGTG		
61927 T	G	S	TGTCTTGTTGACTTTTTAACTTGAATACTGTGGATAGTAGAAATGTCATAGGTAAACGATAGACTTAGGTGGGTTCGTG		
61927 IS	[AG]		CTTAAACAGAGGTCATTGAGAATATTTGGACTGTCTTGTTGACTTTTTAACTTGAATACT[AG]TGGATAGTAGAAATGTC ATAGGTAAACGATAGACTTAGGTGGGTTCGTGGTTCCAAGCAC		
61967 I		S	GTGGGTGGAGGGACTAAAGGATGCCCAT		
61967 P	T	S	CGCGCCGAGGAATGCGGGATCTCCTGY		
61967 P	C	S	ATGACGTGGCAGACGATGCGGGATCTCCTY		
61967 T	T	S	GGGACAGGAGATCCCGCATTTGGGCATCCTTTAGTCCCTCCACCCACTG		
61967 T	C	S	GGGACAGGAGATCCCGCATCTGGGCATCCTTTAGTCCCTCCACCCACTG		
61967 IS	[TC]		CCCCCAGCCTGGCAACTCACCTGGCCTGTTGTCTGTGGGCGGGGACAGGAGATCCCGCAT[TC]TGGGCATCCTTTAG TCCCTCCACCCACTGGACATCCAGGGTCCGGAGCAGCGGACAACTG		
61969 I		S	GGGGAAAAAGAGAAGAGAAAGATATAAGTTCCTGCACCACTGAATACTAAC		
61969 P	A	S	CGCGCCGAGGTACATATCATATGAGAGGGTAGTY		
61969 P	C	S	ATGACGTGGCAGACGACATATCATATGAGAGGGTAGY		

61969 T	A		S	GGCTACTACCCTCTCATATGATATGTATTAGTATTCAGTGGTGCAGGAACTTATATCTTTCTCTTCTCTTTTTCCCCTT
61969 T	C		S	GGCTACTACCCTCTCATATGATATGTCTTAGTATTCAGTGGTGCAGGAACTTATATCTTTCTCTTCTCTTTTTCCCCTT
61969 IS	[AC]			GCTGTGCTGTCGATGCAAGCAGTGAAGATAAAAAGGCTACTACCCTCTCATATGATATGT[AC]TTAGTATTCAGTGGTG CAGGAACTTATATCTTTCTCTTCTCTTTTTCCCCTTCTCACCCA
61974 I			A	GCTGGAGCACCAGCGGCTGAGCT
61974 P	G		A	ATGACGTGGCAGACGCCAAGCTGAAGGACY
61974 P	A		A	CGCGCCGAGGACCAAGCTGAAGGACTAY
61974 T	G		A	GTAGTAGTCCTTCAGCTTGGCGCTCAGCCGCTGGTGCTCCAGCCG
61974 T	A		A	GTAGTAGTCCTTCAGCTTGGTGCTCAGCCGCTGGTGCTCCAGCCG
61974 IS	[GA]			GAGCTGACCAAGCGCAAGCAGGAGATGGTGGCGCTGCGGCTGGAGCACCAGCGGCTGAGC[GA]CCAAGCTGAAGG ACTACTACATCTTCAACAAGTACCTAGAGAAGGTGGTGGAGAACTCCG
61984 I			A	AGCAGAAAAGCAAAGTCAAGCCAAGGGGCTTAGT
61984 P	A		A	CGCGCCGAGGAGGCAGAACAGAGGTCY
61984 P	G		A	ATGACGTGGCAGACGGGCAGAACAGAGGTY
61984 T	A		A	AGGCGACCTCTGTTCTGCCTCTAAGCCCCTTGGCTTGACTTTGCTTTTCTGCTCC
61984 T	G		A	AGGCGACCTCTGTTCTGCCCCTAAGCCCCTTGGCTTGACTTTGCTTTTCTGCTCC
61984 IS	[AG]			GAAGAGGAGTGGGGGAAATGGAAAGGGAGCAGAAAAGCAAAGTCAAGCCAAGGGGCTTAG[AG]GGCAGAACAGAGG TCGCCTGTAGGGAAAAACTGCCCAGGTGAATGGACTCTGAGGGTCAT
62064 I			S	TTCAGTGGGTTAAATTACTAGGAAACTGGGAAGCAAGACTTAATCCT
62064 P	C		S	ATGACGTGGCAGACGTGAGTACTTTGCTTTTTGTGY
62064 P	T		S	CGCGCCGAGGATGAGTACTTTGCTTTTTGTGY
62064 T	C		S	TAATCACAAAAAGCAAAGTACTCACGGATTAAGTCTTGCTTCCCAGTTTCCTAGTAATTTAACCCACTGAACT
62064 T	T		S	TAATCACAAAAAGCAAAGTACTCATGGATTAAGTCTTGCTTCCCAGTTTCCTAGTAATTTAACCCACTGAACT
62064 IS	[CT]			TGGCCATCTTCCAAATGACAGCCACATGTCTGAGTGTAATCACAAAAAGCAAAGTACTCA[CT]GGATTAAGTCTTGCTT CCCAGTTTCCTAGTAATTTAACCCACTGAACTGAACTATCAGGA
62101 I			A	AGGAGTATTTAAGTATTTTCCTAGAAAAGGTGTAGTCAAGAAAATTTACTGAATACC
62101 P	T		A	CGCGCCGAGGTTGAGTACAATTCTGTACTATGAGY
62101 P	A		A	ATGACGTGGCAGACATGAGTACAATTCTGTACTATGAGY
62101 T	T		A	GTAACTCATAGTACAGAATTGTACTCAAGTATTCAGTAAATTTTCTTGACTACACCTTTTCTAGGAAAATACTTAAATAC TCCTGG
62101 T	A		A	GTAACTCATAGTACAGAATTGTACTCATGTATTCAGTAAATTTTCTTGACTACACCTTTTCTAGGAAAATACTTAAATACT CCTGG
62101 IS	[TA]			GCCCAGGAGTATTTAAGTATTTTCCTAGAAAAGGTGTAGTCAAGAAAATTTACTGAATAC[TA]TGAGTACAATTCTGTAC TATGAGTTACAAAGAAAGGTATAATACAACAAAAAGATGTCAA
62141 I			A	CACATCCACCTCAGTGAACTGGGTGGGAC
62141 P	A		A	CGCGCCGAGGACCCCCTGCCTTTGY
62141 P	T		A	ATGACGTGGCAGACTCCCCCTGCCTTTGY
62141 T	A		A	AGAACAAAGGCAGGGGGTTCCCACCCAGTTCACTGAGGTGGATGTGGC
62141 T	T		A	AGAACAAAGGCAGGGGGATCCCACCCAGTTCACTGAGGTGGATGTGGC
62141 IS	[AT]			CCATTCAGTGCTAAAACACTGTCCAACAAAGCCACATCCACCTCAGTGAACTGGGTGGGA[AT]CCCCCTGCCTTTGTT CTTTCTCCGCAAATGCCTGGCTTACAAACTAAGCCTGATTGAAAA
62277 I			S	GACTCGGGCTCGGGGCTCGGT
62277 P	C		S	ATGACGTGGCAGACGGGCGCTCGCTTY
62277 P	T		S	CGCGCCGAGGAGGCGCTCGCTTCY
62277 T	C		S	GGAGGAAGCGAGCGCCCCCGAGCCCCGAGCCCGAGTCCC
62277 T	T		S	GGAGGAAGCGAGCGCCTCCGAGCCCCGAGCCCGAGTCCC
62277 IS	[CT]			GCGTTCCCGGGGGCGCAGCTGCGGGCGGCGGGAGCAGGCGCAGGAGGAGGAAGCGAGCGCC[CT]CCGAGCCCCGA GCCCGAGTCCCCGAGCGTGAGCCGCAATCGCTGCGGTACTCTGCTCCGG
62352 I			A	GGGTAAACCCGGAGAACAATGAGGCCAGGT
62352 P	G		A	ATGACGTGGCAGACGGAGAGGGGACTGCY
62352 P	A		A	CGCGCCGAGGAGAGAGGGGACTGCY
62352 T	G		A	TGCCGCAGTCCCCTCTCCCCTGGCCTCATTGTTCTCCGGGTTTACCCCG
62352 T	A		A	TGCCGCAGTCCCCTCTCTCCTGGCCTCATTGTTCTCCGGGTTTACCCCG
62352 IS	[GA]			GGGGTGCAGGAGAGAGAGGGAGAGGGGCACGGGGTAAACCCGGAGAACAATGAGGCCAGG[GA]GAGAGGGGACTG CGGCACCAGACCGAGCGAGGGTCGGGGGGGCCCGTCGCCCTCTGCGGA
62440 I			S	TGTTAAGCAGCACGGATACTAAGCTACATTAACAAAGGAGGAAAAAC
62440 P	C		S	ATGACGTGGCAGACGCCAAGGTCTTTTTTAATTGCY
62440 P	A		S	CGCGCCGAGGTCCAAGGTCTTTTTTAATTGCY
62440 T	C		S	CTTGGCAATTAAAAAAGACCTTGGCTTTTTCCTCCTTTGTTAATGTAGCTTAGTATCCGTGCTGCTTAACAGC
62440 T	A		S	CTTGGCAATTAAAAAAGACCTTGGATTTTTCCTCCTTTGTTAATGTAGCTTAGTATCCGTGCTGCTTAACAGC
62440 IS	[CA]			TGTGAATTGCTGAGCATTTATTTAGAAAATATAGTTCTTGGCAATTAAAAAAGACCTTGG[CA]TTTTTCCTCCTTTGTTA ATGTAGCTTAGTATCCGTGCTGCTTAACAGCAGTTCCCAAAGA
62574 I			S	CAGTTATTTGAAAAAATGTTTTTTCGCATGTGTGCTTAGAAAGACT
62574 P	C		S	ATGACGTGGCAGACGTTATCATGGTACCTTGTTCTY
62574 P	T		S	CGCGCCGAGGATTATCATGGTACCTTGTTCTGY
62574 T	C		S	CAACCAGAACAAGGTACCATGATAACGTCTTTCTAAGCACACATGCGAAAAACATTTTTTCAAATAACTGAA
62574 T	T		S	CAACCAGAACAAGGTACCATGATAATGTCTTTCTAAGCACACATGCGAAAAACATTTTTTCAAATAACTGAA
62574 IS	[CT]			TACGTGGATATTGGATATGTAGATCTAAGTAAGTACAACCAGAACAAGGTACCATGATAA[CT]GTCTTTCTAAGCACAC ATGCGAAAAACATTTTTTCAAATAACTGAATTCACTCTTTCAAT
62697 I			S	CCAGTACCTGTTCTCACTCTCGCACGGCTC
62697 P	A		S	CGCGCCGAGGTGAGCGCCAGCAGY
62697 P	C		S	ATGACGTGGCAGACGGAGCGCCAGCAY
62697 T	A		S	CAGGCTGCTGGCGCTCAAGCCGTGCGAGAGTGAGAACAGGTACTGGAG
62697 T	C		S	CAGGCTGCTGGCGCTCCAGCCGTGCGAGAGTGAGAACAGGTACTGGAG
62697 IS	[AC]			GTGTGCAGGCGAGCAGCGCAGCTCTCCAGCTCATGGAACCTGTGCAGGCTGCTGGCGCTC[AC]AGCCGTGCGAGAG TGAGAACAGGTACTGGAGCAGTTGCCGGCTTCGGGACGTGGCCTCAC
62711 I			A	TGAAACTCTCCACAAGAGGCCTGTAGCCAACTGA
62711 P	T		A	CGCGCCGAGGTGCTCCCAGGAGAGGY
62711 P	C		A	ATGACGTGGCAGACCGCTCCCAGGAGAGY
62711 T	T		A	TCAGCCTCTCCTGGGAGCACAGTTGGCTACAGGCCTCTTGTGGAGAGTTTCACG
62711 T	C		A	TCAGCCTCTCCTGGGAGCGCAGTTGGCTACAGGCCTCTTGTGGAGAGTTTCACG
62711 IS	[TC]			GGCAGAAGTTGGAATCACCCCTGCCCGTGAAACTCTCCACAAGAGGCCTGTAGCCAACTG[TC]GCTCCCAGGAGAGG CTGATGGTCTCCTGGGTGTTTAAACCTTTGGCAGAGCATCCCTTTG
62717 I			A	CGTTTGAAATAAGTAAGCTACCAAGAAGATGAAACATTAAACCTACATTTTAT
62717 P	G		A	ATGACGTGGCAGACGAGAAATAATTAACAAAAAAAAAAACAAGAY
62717 P	A		A	CGCGCCGAGGAAGAAATAATTAACAAAAAAAAAAACAAGAY
62717 T	G		A	TCCTTCTTGTTTTTTTTTTTGTTAATTATTTCTCTAAAATGTAGGTTTAATGTTTCATCTTCTTGGTAGCTTACTTATTTCA AACGCA
62717 T	A		A	TCCTTCTTGTTTTTTTTTTTGTTAATTATTTCTTTAAAATGTAGGTTTAATGTTTCATCTTCTTGGTAGCTTACTTATTTCA AACGCA

FYCO1

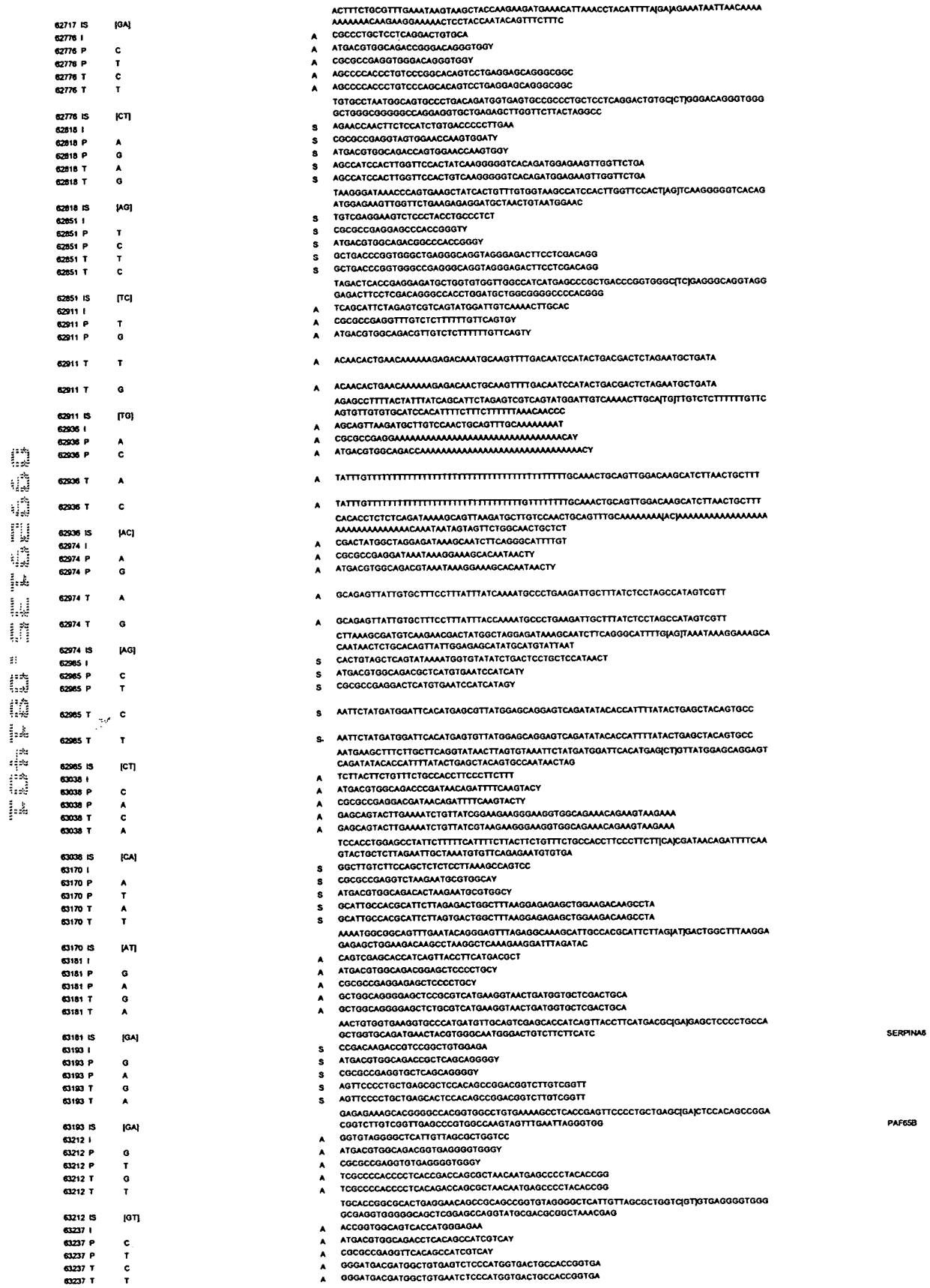

SERPINA6
PAF65B

FIGURE 129D

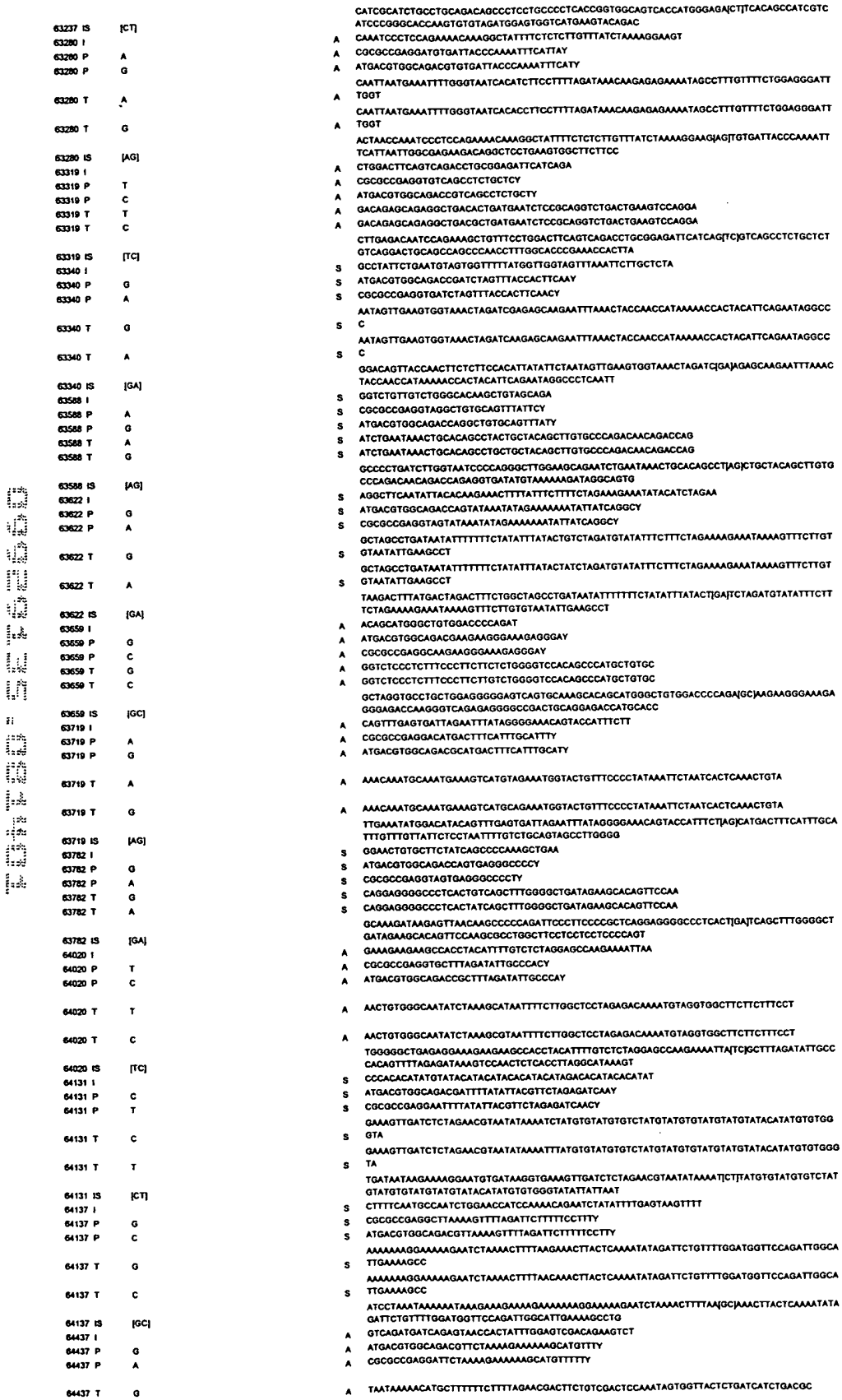

63237 IS [CT]
63280 I
63280 P A
63280 P G
63280 T A
63280 T G
63280 IS [AG]
63319 I
63319 P T
63319 P C
63319 T T
63319 T C
63319 IS [TC]
63340 I
63340 P G
63340 P A
63340 T G
63340 T A
63340 IS [GA]
63588 I
63588 P A
63588 P G
63588 T A
63588 T G
63588 IS [AG]
63622 I
63622 P G
63622 P A
63622 T G
63622 T A
63622 IS [GA]
63659 I
63659 P G
63659 P C
63659 T G
63659 T C
63659 IS [GC]
63719 I
63719 P A
63719 P G
63719 T A
63719 T G
63719 IS [AG]
63782 I
63782 P G
63782 P A
63782 T G
63782 T A
63782 IS [GA]
64020 I
64020 P T
64020 P C
64020 T T
64020 T C
64020 IS [TC]
64131 I
64131 P C
64131 P T
64131 T C
64131 T T
64131 IS [CT]
64137 I
64137 P G
64137 P C
64137 T G
64137 T C
64137 IS [GC]
64437 I
64437 P G
64437 P A
64437 T G

FIGURE 129D

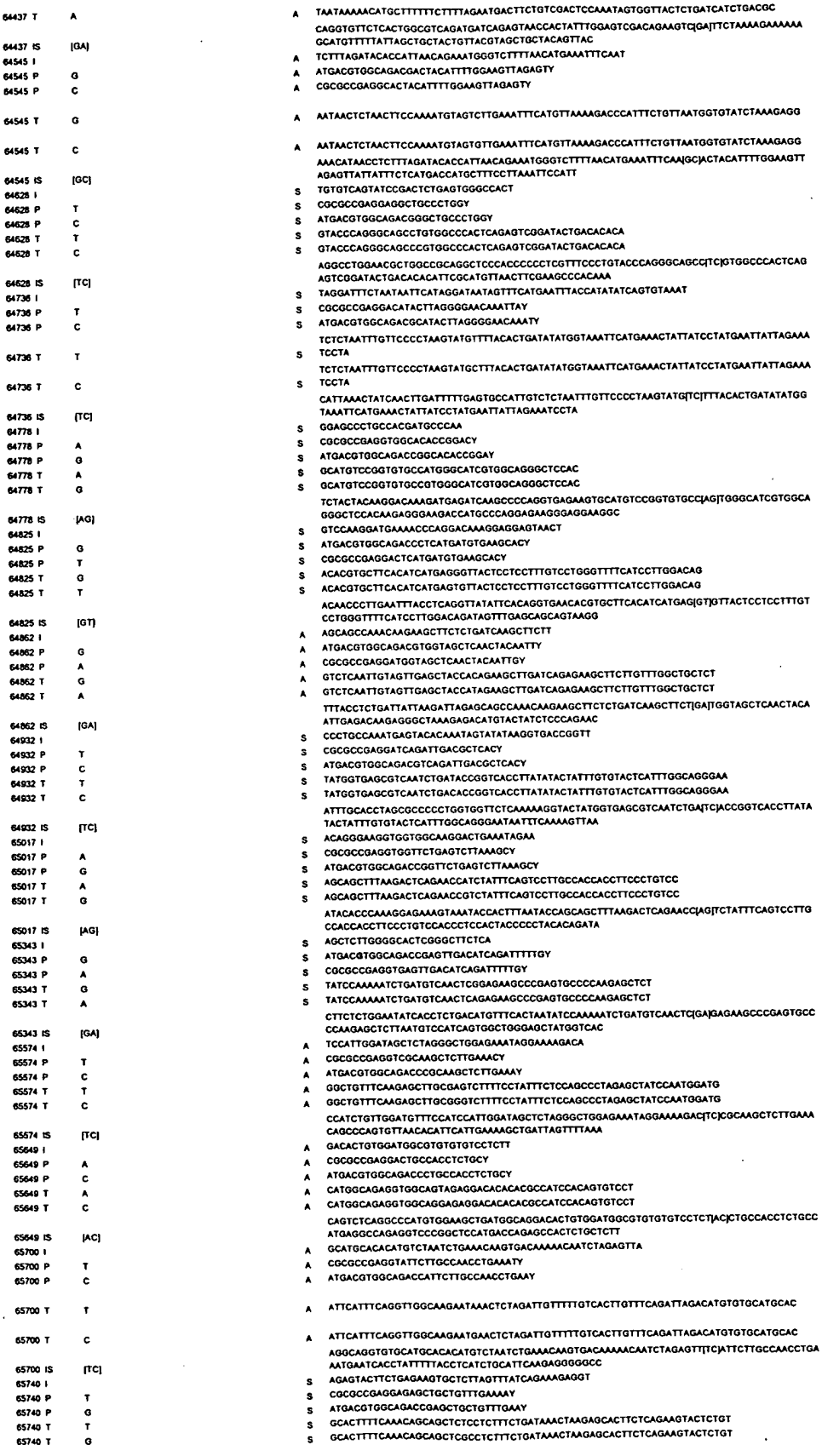

64437 T A
A TAATAAAAACATGCTTTTTTCTTTTAGAATGACTTCTGTCGACTCCAAATAGTGGTTACTCTGATCATCTGACGC
64437 IS [GA]
CAGGTGTTCTCACTGGCGTCAGATGATCAGAGTAACCACTATTTGGAGTCGACAGAAGT[C|GA]TTCTAAAAGAAAAAA
GCATGTTTTTATTAGCTGCTACTGTTACGTAGCTGCTACAGTTAC
64545 I
A TCTTTAGATACACCATTAACAGAAATGGGTCTTTTAACATGAAATTTCAAT
64545 P G
A ATGACGTGGCAGACGACTACATTTTGGAAGTTAGAGTY
64545 P C
A CGCGCCGAGGCACTACATTTTGGAAGTTAGAGTY
64545 T G
A AATAACTCTAACTTCCAAAATGTAGTCTTGAAATTTCATGTTAAAAGACCCATTTCTGTTAATGGTGTATCTAAAGAGG
64545 T C
A AATAACTCTAACTTCCAAAATGTAGTGTTGAAATTTCATGTTAAAAGACCCATTTCTGTTAATGGTGTATCTAAAGAGG
AAACATAACCTCTTTAGATACACCATTAACAGAAATGGGTCTTTTAACATGAAATTTCAA[GC|ACTACATTTTGGAAGTT
64545 IS [GC]
AGAGTTATTATTTCTCATGACCATGCTTTCCTTAAATTCCATT
64628 I
S TGTGTCAGTATCCGACTCTGAGTGGGCCACT
64628 P T
S CGCGCCGAGGAGGCTGCCCTGGY
64628 P C
S ATGACGTGGCAGACGGGCTGCCCTGGY
64628 T T
S GTACCCAGGGCAGCCTGTGGCCCACTCAGAGTCGGATACTGACACACA
64628 T C
S GTACCCAGGGCAGCCCGTGGCCCACTCAGAGTCGGATACTGACACACA
AGGCCTGGAACGCTGGCCGCAGGCTCCCACCCCCCCTCGTTTCCCTGTACCCAGGGCAGCC[T|C]GTGGCCCACTCAG
64628 IS [TC]
AGTCGGATACTGACACACATTCGCATGTTAACTTCGAAGCCCACAAA
64736 I
S TAGGATTTCTAATAATTCATAGGATAATAGTTTCATGAATTTACCATATATCAGTGTAAAT
64736 P T
S CGCGCCGAGGACATACTTAGGGGAACAAATTAY
64736 P C
S ATGACGTGGCAGACGCATACTTAGGGGAACAAATY
TCTCTAATTTGTTCCCCTAAGTATGTTTTACACTGATATATGGTAAATTCATGAAACTATTATCCTATGAATTATTAGAAA
64736 T T
S TCCTA
TCTCTAATTTGTTCCCCTAAGTATGCTTTACACTGATATATGGTAAATTCATGAAACTATTATCCTATGAATTATTAGAAA
64736 T C
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64736 IS [TC]
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64778 I
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64778 P A
S CGCGCCGAGGTGGCACACCGGACY
64778 P G
S ATGACGTGGCAGACCGGCACACCGGAY
64778 T A
S GCATGTCCGGTGTGCCATGGGCATCGTGGCAGGGCTCCAC
64778 T G
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64778 IS [AG]
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64825 I
S GTCCAAGGATGAAAACCCAGGACAAAGGAGGAGTAACT
64825 P G
S ATGACGTGGCAGACCCTCATGATGTGAAGCACY
64825 P T
S CGCGCCGAGGACTCATGATGTGAAGCACY
64825 T G
S ACACGTGCTTCACATCATGAGGGTTACTCCTCCTTTGTCCTGGGTTTTCATCCTTGGACAG
64825 T T
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64825 IS [GT]
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64862 I
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64862 P G
A ATGACGTGGCAGACGTGGTAGCTCAACTACAATTY
64862 P A
A CGCGCCGAGGATGGTAGCTCAACTACAATTGY
64862 T G
A GTCTCAATTGTAGTTGAGCTACCACAGAAGCTTGATCAGAGAAGCTTCTTGTTTGGCTGCTCT
64862 T A
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64862 IS [GA]
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64932 I
S CCCTGCCAAATGAGTACACAAATAGTATATAAGGTGACCGGTT
64932 P T
S CGCGCCGAGGATCAGATTGACGCTCACY
64932 P C
S ATGACGTGGCAGACGTCAGATTGACGCTCACY
64932 T T
S TATGGTGAGCGTCAATCTGATACCGGTCACCTTATATACTATTTGTGTACTCATTTGGCAGGGAA
64932 T C
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64932 IS [TC]
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65017 I
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65017 P A
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65017 P G
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65017 T A
S AGCAGCTTTAAGACTCAGAACCATCTATTTCAGTCCTTGCCACCACCTTCCCTGTCC
65017 T G
S AGCAGCTTTAAGACTCAGAACCGTCTATTTCAGTCCTTGCCACCACCTTCCCTGTCC
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65017 IS [AG]
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65343 I
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65343 P G
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65343 P A
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65343 T G
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65343 T A
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65343 IS [GA]
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65574 P T
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65574 P C
A ATGACGTGGCAGACCCGCAAGCTCTTGAAAY
65574 T T
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65574 T C
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65649 P A
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65649 P C
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65649 T A
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65649 T C
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65649 IS [AC]
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65700 P T
A CGCGCCGAGGTATTCTTGCCAACCTGAAATY
65700 P C
A ATGACGTGGCAGACCATTCTTGCCAACCTGAAY
65700 T T
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65700 T C
A ATTCATTTCAGGTTGGCAAGAATGAACTCTAGATTGTTTTTGTCACTTGTTTCAGATTAGACATGTGTGCATGCAC
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65700 IS [TC]
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65740 I
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65740 P T
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65740 P G
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65740 T T
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65740 T G
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FIGURE 129D

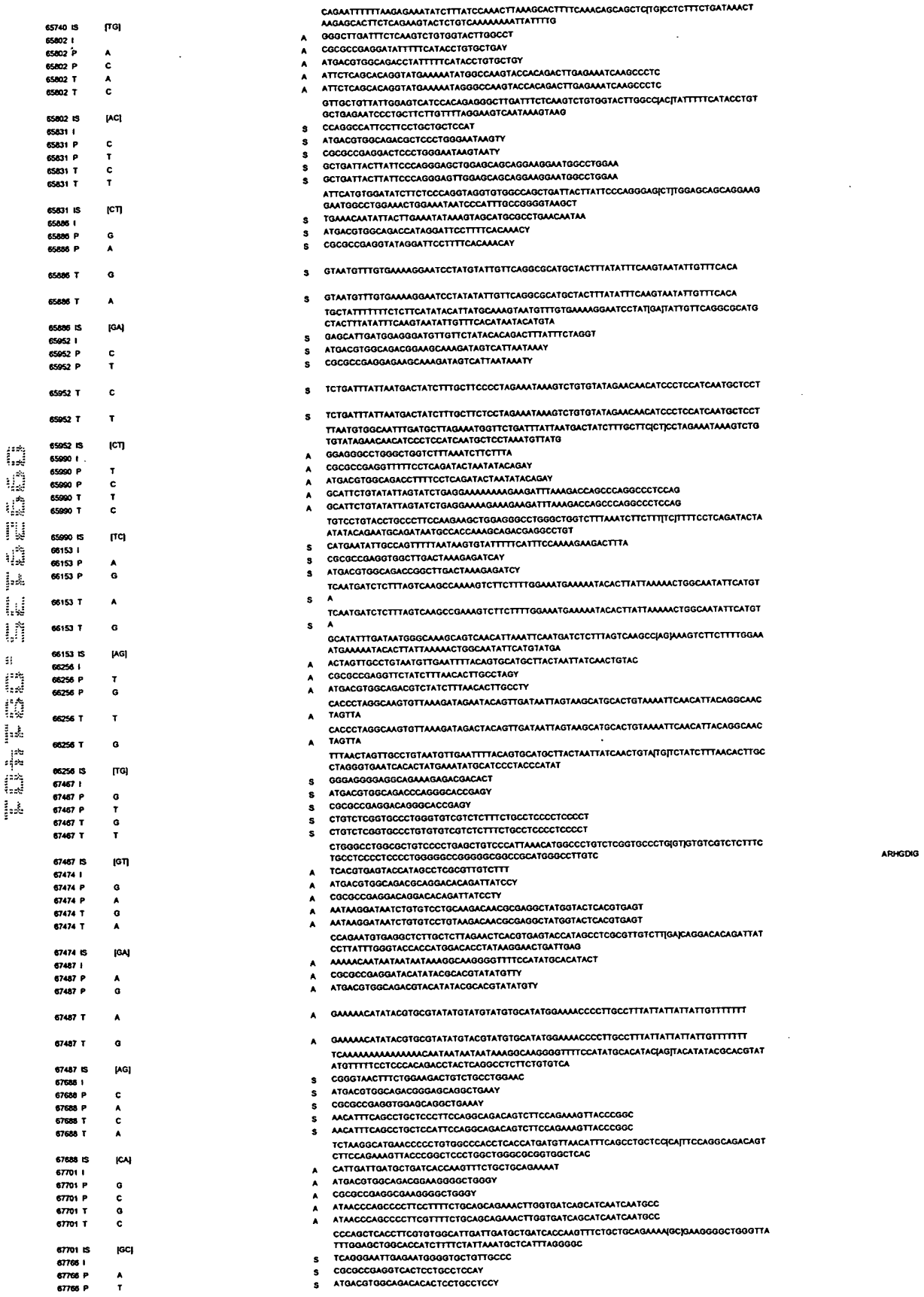


FIGURE 129D

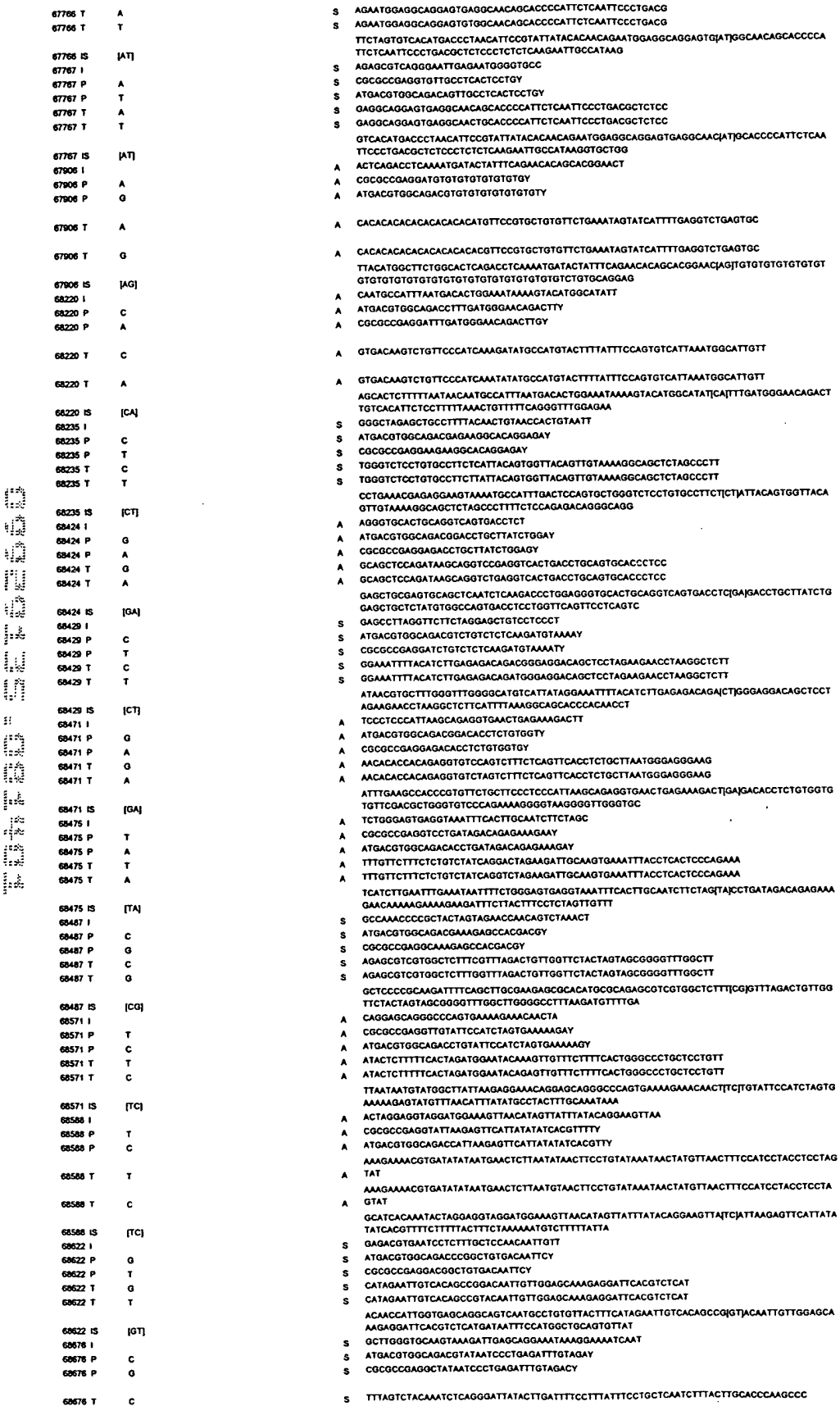

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67767 I S AGAGCGTCAGGGAATTGAGAATGGGGTGCC
67767 P A S CGCGCCGAGGTGTTGCCTCACTCCTGY
67767 P T S ATGACGTGGCAGACAGTTGCCTCACTCCTGY
67767 T A S GAGGCAGGAGTGAGGCAACAGCACCCCATTCTCAATTCCCTGACGCTCTCC
67767 T T S GAGGCAGGAGTGAGGCAACTGCACCCCATTCTCAATTCCCTGACGCTCTCC
67767 IS [AT] GTCACATGACCCTAACATTCCGTATTATACACAACAGAATGGAGGCAGGAGTGAGGCAAC[AT]GCACCCCATTCTCAA TTCCCTGACGCTCTCCCTCTCTCAAGAATTGCCATAAGGTGCTGG
67906 I A ACTCAGACCTCAAAATGATACTATTTCAGAACACAGCACGGAACT
67906 P A A CGCGCCGAGGATGTGTGTGTGTGTGTGY
67906 P G A ATGACGTGGCAGACGTGTGTGTGTGTGTGY
67906 T A A CACACACACACACACACACACATGTTCCGTGCTGTGTTCTGAAATAGTATCATTTTGAGGTCTGAGTGC
67906 T G A CACACACACACACACACACACGTTCCGTGCTGTGTTCTGAAATAGTATCATTTTGAGGTCTGAGTGC
67906 IS [AG] TTACATGGCTTCTGGCACTCAGACCTCAAAATGATACTATTTCAGAACACAGCACGGAAC[AG]TGTGTGTGTGTGTGT GTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTCTGTGCAGGAG
68220 I A CAATGCCATTTAATGACACTGGAAATAAAAGTACATGGCATATT
68220 P C A ATGACGTGGCAGACCTTTGATGGGAACAGACTTY
68220 P A A CGCGCCGAGGATTTGATGGGAACAGACTTGY
68220 T C A GTGACAAGTCTGTTCCCATCAAAGATATGCCATGTACTTTTATTTCCAGTGTCATTAAATGGCATTGTT
68220 T A A GTGACAAGTCTGTTCCCATCAAATATATGCCATGTACTTTTATTTCCAGTGTCATTAAATGGCATTGTT
68220 IS [CA] AGCACTCTTTTTAATAACAATGCCATTTAATGACACTGGAAATAAAAGTACATGGCATAT[CA]TTTGATGGGAACAGACT TGTCACATTCTCCTTTTTAAACTGTTTTTCAGGGTTTGGAGAA
68235 I S GGGCTAGAGCTGCCTTTTACAACTGTAACCACTGTAATT
68235 P C S ATGACGTGGCAGACGAGAAGGCACAGGAGAY
68235 P T S CGCGCCGAGGAAGAAGGCACAGGAGAY
68235 T C S TGGGTCTCCTGTGCCTTCTCATTACAGTGGTTACAGTTGTAAAAGGCAGCTCTAGCCCTT
68235 T T S TGGGTCTCCTGTGCCTTCTTATTACAGTGGTTACAGTTGTAAAAGGCAGCTCTAGCCCTT
68235 IS [CT] CCTGAAACGAGAGGAAGTAAAATGCCATTTGACTCCAGTGCTGGGTCTCCTGTGCCTTCT[CT]ATTACAGTGGTTACA GTTGTAAAAGGCAGCTCTAGCCCTTTTCTCCAGAGACAGGGCAGG
68424 I A AGGGTGCACTGCAGGTCAGTGACCTCT
68424 P G A ATGACGTGGCAGACGGACCTGCTTATCTGGAY
68424 P A A CGCGCCGAGGAGACCTGCTTATCTGGAGY
68424 T G A GCAGCTCCAGATAAGCAGGTCCGAGGTCACTGACCTGCAGTGCACCCTCC
68424 T A A GCAGCTCCAGATAAGCAGGTCTGAGGTCACTGACCTGCAGTGCACCCTCC
68424 IS [GA] GAGCTGCGAGTGCAGCTCAATCTCAAGACCCTGGAGGGTGCACTGCAGGTCAGTGACCTC[GA]GACCTGCTTATCTG GAGCTGCTCTATGTGGCCAGTGACCTCCTGGTTCAGTTCCTCAGTC
68429 I S GAGCCTTAGGTTCTTCTAGGAGCTGTCCTCCCT
68429 P C S ATGACGTGGCAGACGTCTGTCTCTCAAGATGTAAAAY
68429 P T S CGCGCCGAGGATCTGTCTCTCAAGATGTAAAATY
68429 T C S GGAAATTTTACATCTTGAGAGACAGACGGGAGGACAGCTCCTAGAAGAACCTAAGGCTCTT
68429 T T S GGAAATTTTACATCTTGAGAGACAGATGGGAGGACAGCTCCTAGAAGAACCTAAGGCTCTT
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68471 I A TCCCTCCCATTAAGCAGAGGTGAACTGAGAAAGACTT
68471 P G A ATGACGTGGCAGACGGACACCTCTGTGGTY
68471 P A A CGCGCCGAGGAGACACCTCTGTGGTGY
68471 T G A AACACACCACAGAGGTGTCCAGTCTTTCTCAGTTCACCTCTGCTTAATGGGAGGGAAG
68471 T A A AACACACCACAGAGGTGTCTAGTCTTTCTCAGTTCACCTCTGCTTAATGGGAGGGAAG
68471 IS [GA] ATTTGAAGCCACCCGTGTTCTGCTTCCCTCCCATTAAGCAGAGGTGAACTGAGAAAGACT[GA]GACACCTCTGTGGTG TGTTCGACGCTGGGTGTCCCAGAAAAGGGGTAAGGGGTTGGGTGC
68475 I A TCTGGGAGTGAGGTAAATTTCACTTGCAATCTTCTAGC
68475 P T A CGCGCCGAGGTCCTGATAGACAGAGAAAGAAY
68475 P A A ATGACGTGGCAGACACCTGATAGACAGAGAAAGAY
68475 T T A TTTGTTCTTTCTCTGTCTATCAGGACTAGAAGATTGCAAGTGAAATTTACCTCACTCCCAGAAA
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68487 P C S ATGACGTGGCAGACGAAAGAGCCACGACGY
68487 P G S CGCGCCGAGGCAAAGAGCCACGACGY
68487 T C S AGAGCGTCGTGGCTCTTTCGTTTAGACTGTTGGTTCTACTAGTAGCGGGGTTTGGCTT
68487 T G S AGAGCGTCGTGGCTCTTTGGTTTAGACTGTTGGTTCTACTAGTAGCGGGGTTTGGCTT
68487 IS [CG] GCTCCCCGCAAGATTTTCAGCTTGCGAAGAGCGCACATGCGCAGAGCGTCGTGGCTCTTT[CG]GTTTAGACTGTTGG TTCTACTAGTAGCGGGGTTTGGCTTGGGGCCTTTAAGATGTTTTGA
68571 I A CAGGAGCAGGGCCCAGTGAAAAGAAACAACTA
68571 P T A CGCGCCGAGGTTGTATTCCATCTAGTGAAAAAGAY
68571 P C A ATGACGTGGCAGACCTGTATTCCATCTAGTGAAAAAGY
68571 T T A ATACTCTTTTTCACTAGATGGAATACAAAGTTGTTTCTTTTCACTGGGCCCTGCTCCTGTT
68571 T C A ATACTCTTTTTCACTAGATGGAATACAGAGTTGTTTCTTTTCACTGGGCCCTGCTCCTGTT
68571 IS [TC] TTAATAATGTATGGCTTATTAAGAGGAAACAGGAGCAGGGCCCAGTGAAAAGAAACAACT[TC]TGTATTCCATCTAGTG AAAAAGAGTATGTTTAACATTTATATGCCTACTTTGCAAATAAA
68588 I A ACTAGGAGGTAGGATGGAAAGTTAACATAGTTATTTATACAGGAAGTTAA
68588 P T A CGCGCCGAGGTATTAAGAGTTCATTATATATCACGTTTTY
68588 P C A ATGACGTGGCAGACCATTAAGAGTTCATTATATATCACGTTY
68588 T T A AAAGAAAACGTGATATATAATGAACTCTTAATATAACTTCCTGTATAAATAACTATGTTAACTTTCCATCCTACCTCCTAG TAT
68588 T C A AAAGAAAACGTGATATATAATGAACTCTTAATGTAACTTCCTGTATAAATAACTATGTTAACTTTCCATCCTACCTCCTA GTAT
68588 IS [TC] GCATCACAAATACTAGGAGGTAGGATGGAAAGTTAACATAGTTATTTATACAGGAAGTTA[TC]ATTAAGAGTTCATTATA TATCACGTTTTCTTTTTACTTTCTAAAAAATGTCTTTTTATTA
68622 I S GAGACGTGAATCCTCTTTGCTCCAACAATTGTT
68622 P G S ATGACGTGGCAGACCCGGCTGTGACAATTCY
68622 P T S CGCGCCGAGGACGGCTGTGACAATTCY
68622 T G S CATAGAATTGTCACAGCCGGACAATTGTTGGAGCAAAGAGGATTCACGTCTCAT
68622 T T S CATAGAATTGTCACAGCCGTACAATTGTTGGAGCAAAGAGGATTCACGTCTCAT
68622 IS [GT] ACAACCATTGGTGAGCAGGCAGTCAATGCCTGTGTTACTTTCATAGAATTGTCACAGCCG[GT]ACAATTGTTGGAGCA AAGAGGATTCACGTCTCATGATAATTTCCATGGCTGCAGTGTTAT
68676 I S GCTTGGGTGCAAGTAAAGATTGAGCAGGAAATAAAGGAAAATCAAT
68676 P C S ATGACGTGGCAGACGTATAATCCCTGAGATTTGTAGAY
68676 P G S CGCGCCGAGGCTATAATCCCTGAGATTTGTAGACY
68676 T C S TTTAGTCTACAAATCTCAGGGATTATACTTGATTTTCCTTTATTTCCTGCTCAATCTTTACTTGCACCCAAGCCC

FIGURE 129D

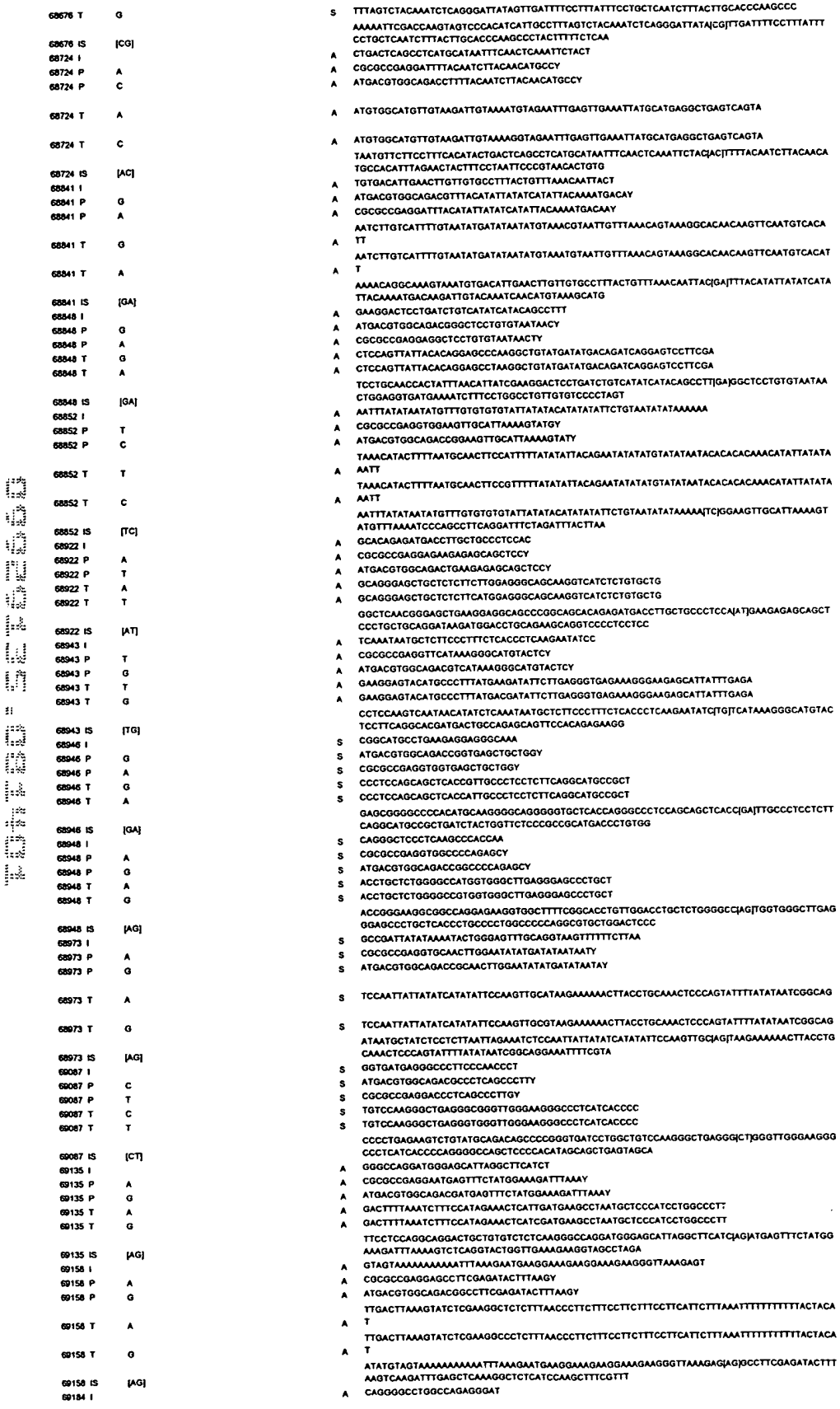


FIGURE 129D

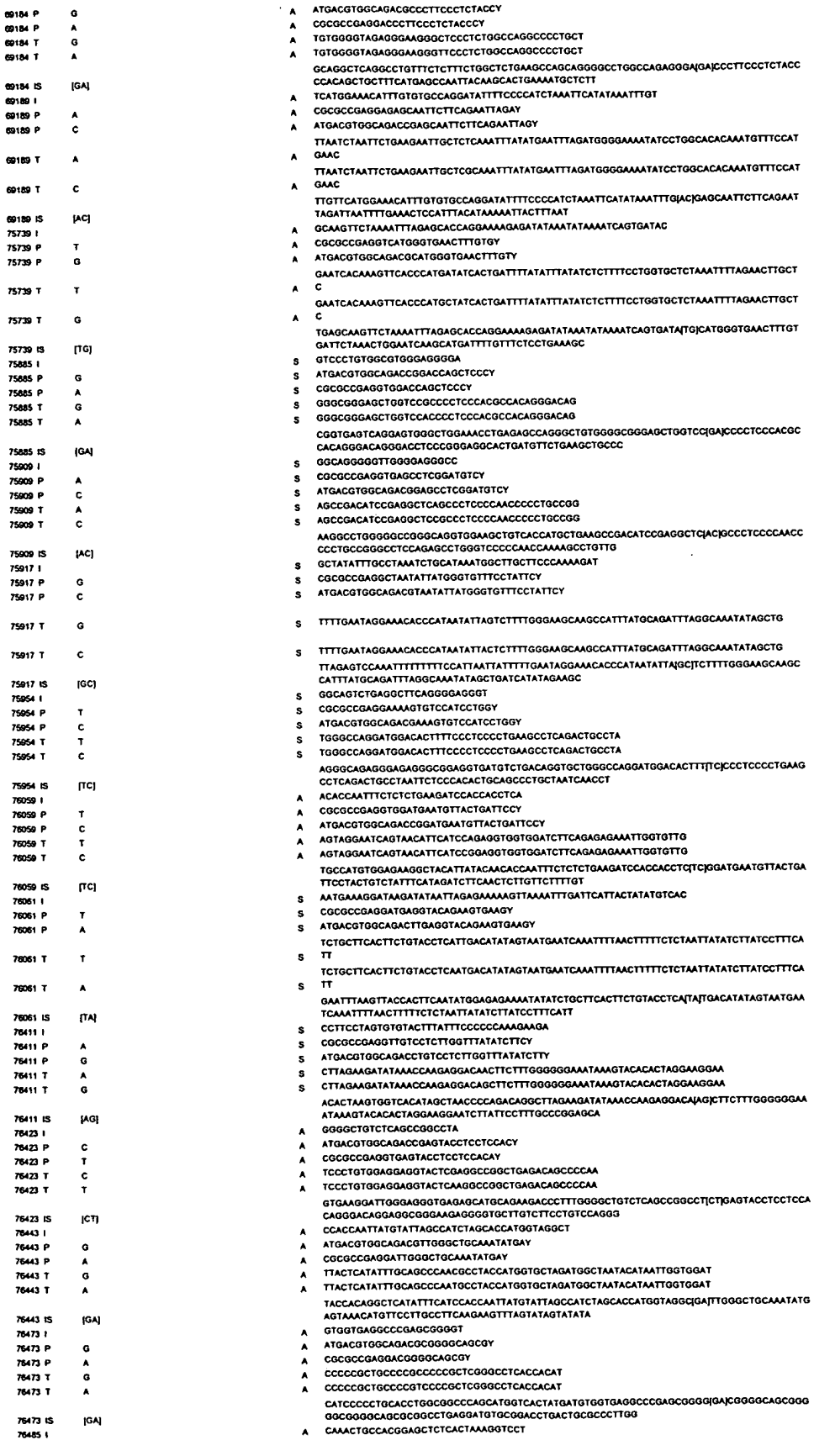

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A CCCCCGCTGCCCCGCCCCCGCTCGGGCCTCACCACAT
A CCCCCGCTGCCCCGTCCCGCTCGGGCCTCACCACAT
CATCCCCCTGCACCTGGCGGCCCAGCATGGTCACTATGATGTGGTGAGGCCCGAGCGGGG[GA]CGGGGCAGCGGG
GGCGGGGCAGCGCGGCCTGAGGATGTGCGGACCTGACTGCGCCCTTGG
A CAAACTGCCACGGAGCTCTCACTAAAGGTCCT

FIGURE 129D

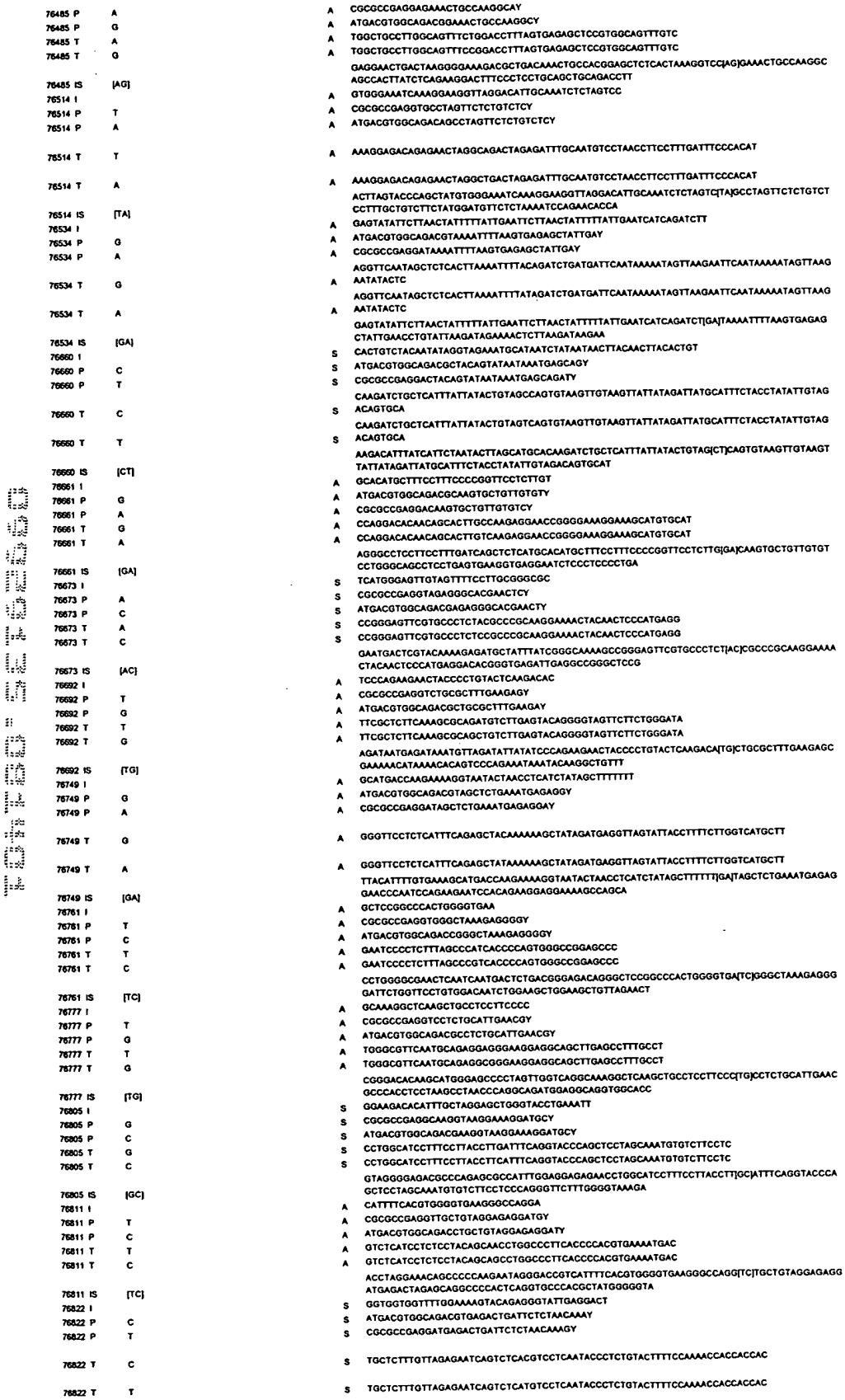

76485 P A
A CGCGCCGAGGAGAAACTGCCAAGGCAY
76485 P G
A ATGACGTGGCAGACGGAAACTGCCAAGGCY
76485 T A
A TGGCTGCCTTGGCAGTTTCTGGACCTTTAGTGAGAGCTCCGTGGCAGTTTGTC
76485 T G
A TGGCTGCCTTGGCAGTTTCCGGACCTTTAGTGAGAGCTCCGTGGCAGTTTGTC
GAGGAACTGACTAAGGGGAAAGACGCTGACAAACTGCCACGGAGCTCTCACTAAAGGTCC[AG]GAAACTGCCAAGGC
76485 IS [AG]
AGCCACTTATCTCAGAAGGACTTTCCCTCCTGCAGCTGCAGACCTT
76514 I
A GTGGGAAATCAAAGGAAGGTTAGGACATTGCAAATCTCTAGTCC
76514 P T
A CGCGCCGAGGTGCCTAGTTCTCTGTCTCY
76514 P A
A ATGACGTGGCAGACAGCCTAGTTCTCTGTCTCY
76514 T T
A AAAGGAGACAGAGAACTAGGCAGACTAGAGATTTGCAATGTCCTAACCTTCCTTTGATTTCCCACAT
76514 T A
A AAAGGAGACAGAGAACTAGGCTGACTAGAGATTTGCAATGTCCTAACCTTCCTTTGATTTCCCACAT
ACTTAGTACCCAGCTATGTGGGAAATCAAAGGAAGGTTAGGACATTGCAAATCTCTAGTC[TA]GCCTAGTTCTCTGTCT
CCTTTGCTGTCTTCTATGGATGTTCTCTAAAATCCAGAACACCA
76514 IS [TA]
76534 I
A GAGTATATTCTTAACTATTTTTATTGAATTCTTAACTATTTTTATTGAATCATCAGATCTT
76534 P G
A ATGACGTGGCAGACGTAAAATTTTAAGTGAGAGCTATTGAY
76534 P A
A CGCGCCGAGGATAAAATTTTAAGTGAGAGCTATTGAY
AGGTTCAATAGCTCTCACTTAAAATTTTACAGATCTGATGATTCAATAAAAATAGTTAAGAATTCAATAAAAATAGTTAAG
76534 T G
A AATATACTC
AGGTTCAATAGCTCTCACTTAAAATTTTATAGATCTGATGATTCAATAAAAATAGTTAAGAATTCAATAAAAATAGTTAAG
76534 T A
A AATATACTC
GAGTATATTCTTAACTATTTTTATTGAATTCTTAACTATTTTTATTGAATCATCAGATCT[GA]TAAAATTTTAAGTGAGAG
CTATTGAACCTGTATTAAGATAGAAAACTCTTAAGATAAGAA
76534 IS [GA]
76660 I
S CACTGTCTACAATATAGGTAGAAATGCATAATCTATAATAACTTACAACTTACACTGT
76660 P C
S ATGACGTGGCAGACGCTACAGTATAATAAATGAGCAGY
76660 P T
S CGCGCCGAGGACTACAGTATAATAAATGAGCAGATY
CAAGATCTGCTCATTTATTATACTGTAGCCAGTGTAAGTTGTAAGTTATTATAGATTATGCATTTCTACCTATATTGTAG
76660 T C
S ACAGTGCA
CAAGATCTGCTCATTTATTATACTGTAGTCAGTGTAAGTTGTAAGTTATTATAGATTATGCATTTCTACCTATATTGTAG
76660 T T
S ACAGTGCA
AAGACATTTATCATTCTAATACTTAGCATGCACAAGATCTGCTCATTTATTATACTGTAG[CT]CAGTGTAAGTTGTAAGT
TATTATAGATTATGCATTTCTACCTATATTGTAGACAGTGCAT
76660 IS [CT]
76661 I
A GCACATGCTTTCCTTTCCCCGGTTCCTCTTGT
76661 P G
A ATGACGTGGCAGACGCAAGTGCTGTTGTGTY
76661 P A
A CGCGCCGAGGACAAGTGCTGTTGTGTCY
76661 T G
A CCAGGACACAACAGCACTTGCCAAGAGGAACCGGGGAAAGGAAAGCATGTGCAT
76661 T A
A CCAGGACACAACAGCACTTGTCAAGAGGAACCGGGGAAAGGAAAGCATGTGCAT
AGGGCCTCCTTCCTTTGATCAGCTCTCATGCACATGCTTTCCTTTCCCCGGTTCCTCTTG[GA]CAAGTGCTGTTGTGT
76661 IS [GA]
CCTGGGCAGCCTCCTGAGTGAAGGTGAGGAATCTCCCTCCCCTGA
76673 I
S TCATGGGAGTTGTAGTTTTCCTTGCGGGCGC
76673 P A
S CGCGCCGAGGTAGAGGGCACGAACTCY
76673 P C
S ATGACGTGGCAGACGAGAGGGCACGAACTY
76673 T A
S CCGGGAGTTCGTGCCCTCTACGCCCGCAAGGAAAACTACAACTCCCATGAGG
76673 T C
S CCGGGAGTTCGTGCCCTCTCCGCCCGCAAGGAAAACTACAACTCCCATGAGG
GAATGACTCGTACAAAAGAGATGCTATTTATCGGGCAAAAGCCGGGAGTTCGTGCCCTCT[AC]CGCCCGCAAGGAAAA
76673 IS [AC]
CTACAACTCCCATGAGGACACGGGTGAGATTGAGGCCGGGCTCCG
76692 I
A TCCCAGAAGAACTACCCCTGTACTCAAGACAC
76692 P T
A CGCGCCGAGGTCTGCGCTTTGAAGAGY
76692 P G
A ATGACGTGGCAGACGCTGCGCTTTGAAGAY
76692 T T
A TTCGCTCTTCAAAGCGCAGATGTCTTGAGTACAGGGGTAGTTCTTCTGGGATA
76692 T G
A TTCGCTCTTCAAAGCGCAGCTGTCTTGAGTACAGGGGTAGTTCTTCTGGGATA
AGATAATGAGATAAATGTTAGATATTATATCCCAGAAGAACTACCCCTGTACTCAAGACA[TG]CTGCGCTTTGAAGAGC
76692 IS [TG]
GAAAAACATAAAACACAGTCCCAGAAATAAATACAAGGCTGTTT
76749 I
A GCATGACCAAGAAAAGGTAATACTAACCTCATCTATAGCTTTTTTT
76749 P G
A ATGACGTGGCAGACGTAGCTCTGAAATGAGAGGY
76749 P A
A CGCGCCGAGGATAGCTCTGAAATGAGAGGAY
76749 T G
A GGGTTCCTCTCATTTCAGAGCTACAAAAAAGCTATAGATGAGGTTAGTATTACCTTTTCTTGGTCATGCTT
76749 T A
A GGGTTCCTCTCATTTCAGAGCTATAAAAAAGCTATAGATGAGGTTAGTATTACCTTTTCTTGGTCATGCTT
TTACATTTTGTGAAAGCATGACCAAGAAAAGGTAATACTAACCTCATCTATAGCTTTTTT[GA]TAGCTCTGAAATGAGAG
76749 IS [GA]
GAACCCAATCCAGAAGAATCCACAGAAGGAGGAAAAGCCAGCA
76761 I
A GCTCCGGCCCACTGGGGTGAA
76761 P T
A CGCGCCGAGGTGGGCTAAAGAGGGGY
76761 P C
A ATGACGTGGCAGACCGGGCTAAAGAGGGGY
76761 T T
A GAATCCCCTCTTTAGCCCATCACCCCAGTGGGCCGGAGCCC
76761 T C
A GAATCCCCTCTTTAGCCCGTCACCCCAGTGGGCCGGAGCCC
CCTGGGGCGAACTCAATCAATGACTCTGACGGGAGACAGGGCTCCGGCCCACTGGGGTGA[TC]GGGCTAAAGAGGG
76761 IS [TC]
GATTCTGGTTCCTGTGGACAATCTGGAAGCTGGAAGCTGTTAGAACT
76777 I
A GCAAAGGCTCAAGCTGCCTCCTTCCCC
76777 P T
A CGCGCCGAGGTCCTCTGCATTGAACGY
76777 P G
A ATGACGTGGCAGACGCCTCTGCATTGAACGY
76777 T T
A TGGGCGTTCAATGCAGAGGAGGGAAGGAGGCAGCTTGAGCCTTTGCCT
76777 T G
A TGGGCGTTCAATGCAGAGGCGGGAAGGAGGCAGCTTGAGCCTTTGCCT
CGGGACACAAGCATGGGAGCCCCTAGTTGGTCAGGCAAAGGCTCAAGCTGCCTCCTTCCC[TG]CCTCTGCATTGAAC
76777 IS [TG]
GCCCACCTCCTAAGCCTAACCCAGGCAGATGGAGGCAGGTGGCACC
76805 I
S GGAAGACACATTTGCTAGGAGCTGGGTACCTGAAATT
76805 P G
S CGCGCCGAGGCAAGGTAAGGAAAGGATGCY
76805 P C
S ATGACGTGGCAGACGAAGGTAAGGAAAGGATGCY
76805 T G
S CCTGGCATCCTTTCCTTACCTTGATTTCAGGTACCCAGCTCCTAGCAAATGTGTCTTCCTC
76805 T C
S CCTGGCATCCTTTCCTTACCTTCATTTCAGGTACCCAGCTCCTAGCAAATGTGTCTTCCTC
GTAGGGGAGACGCCCAGAGCGCCATTTGGAGGAGAGAACCTGGCATCCTTTCCTTACCTT[GC]ATTTCAGGTACCCA
76805 IS [GC]
GCTCCTAGCAAATGTGTCTTCCTCCCAGGGTTCTTTGGGGTAAAGA
76811 I
A CATTTTCACGTGGGGTGAAGGGCCAGGA
76811 P T
A CGCGCCGAGGTTGCTGTAGGAGAGGATGY
76811 P C
A ATGACGTGGCAGACCTGCTGTAGGAGAGGATY
76811 T T
A GTCTCATCCTCTCCTACAGCAACCTGGCCCTTCACCCCACGTGAAAATGAC
76811 T C
A GTCTCATCCTCTCCTACAGCAGCCTGGCCCTTCACCCCACGTGAAAATGAC
ACCTAGGAAACAGCCCCCAAGAATAGGGACCGTCATTTTCACGTGGGGTGAAGGGCCAGG[TC]TGCTGTAGGAGAGG
76811 IS [TC]
ATGAGACTAGAGCAGGCCCCACTCAGGTGCCCACGCTATGGGGGTA
76822 I
S GGTGGTGGTTTTGGAAAAGTACAGAGGGTATTGAGGACT
76822 P C
S ATGACGTGGCAGACGTGAGACTGATTCTCTAACAAAY
76822 P T
S CGCGCCGAGGATGAGACTGATTCTCTAACAAAGY
76822 T C
S TGCTCTTTGTTAGAGAATCAGTCTCACGTCCTCAATACCCTCTGTACTTTTCCAAAACCACCACCAC
76822 T T
S TGCTCTTTGTTAGAGAATCAGTCTCATGTCCTCAATACCCTCTGTACTTTTCCAAAACCACCACCAC

FIGURE 129D

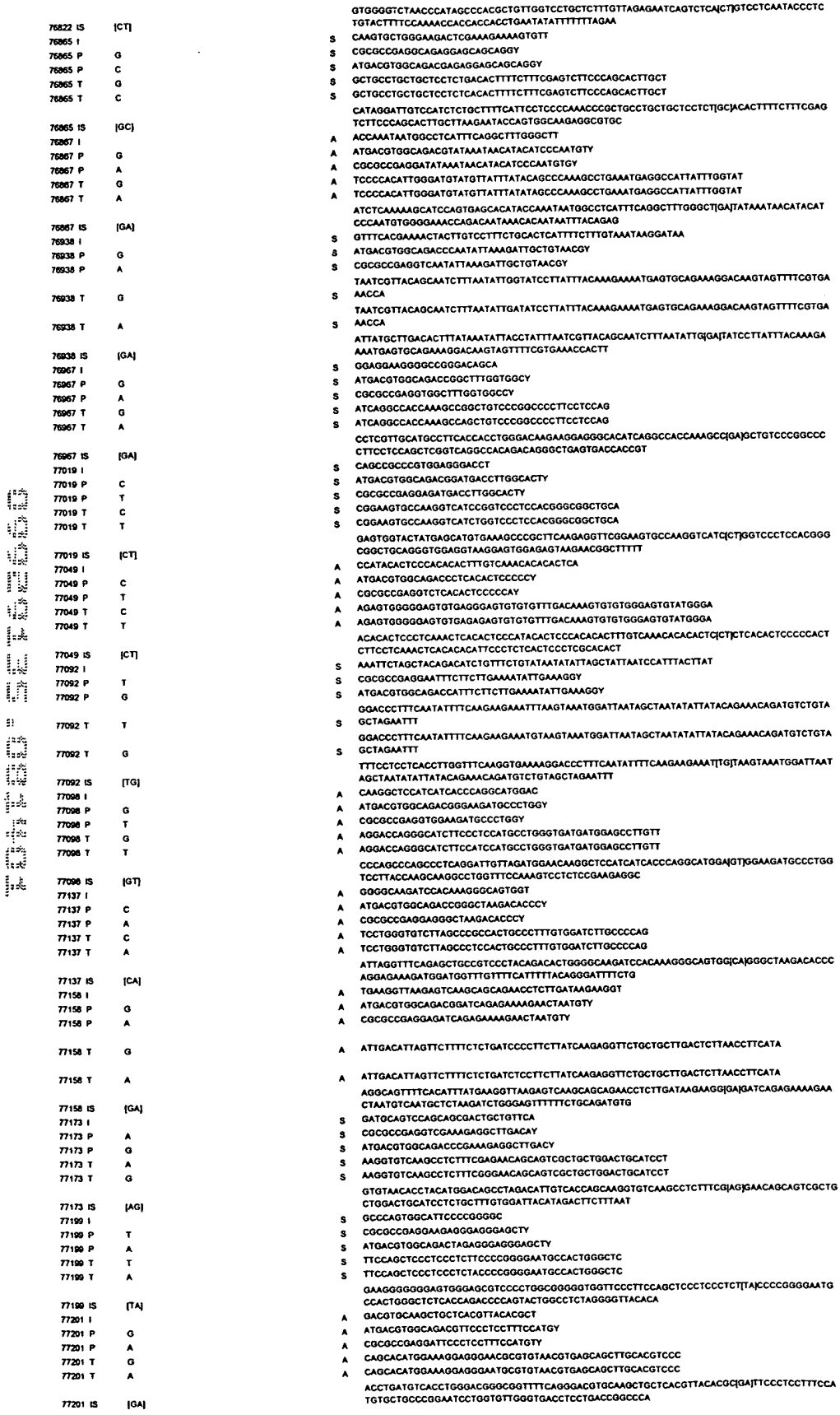
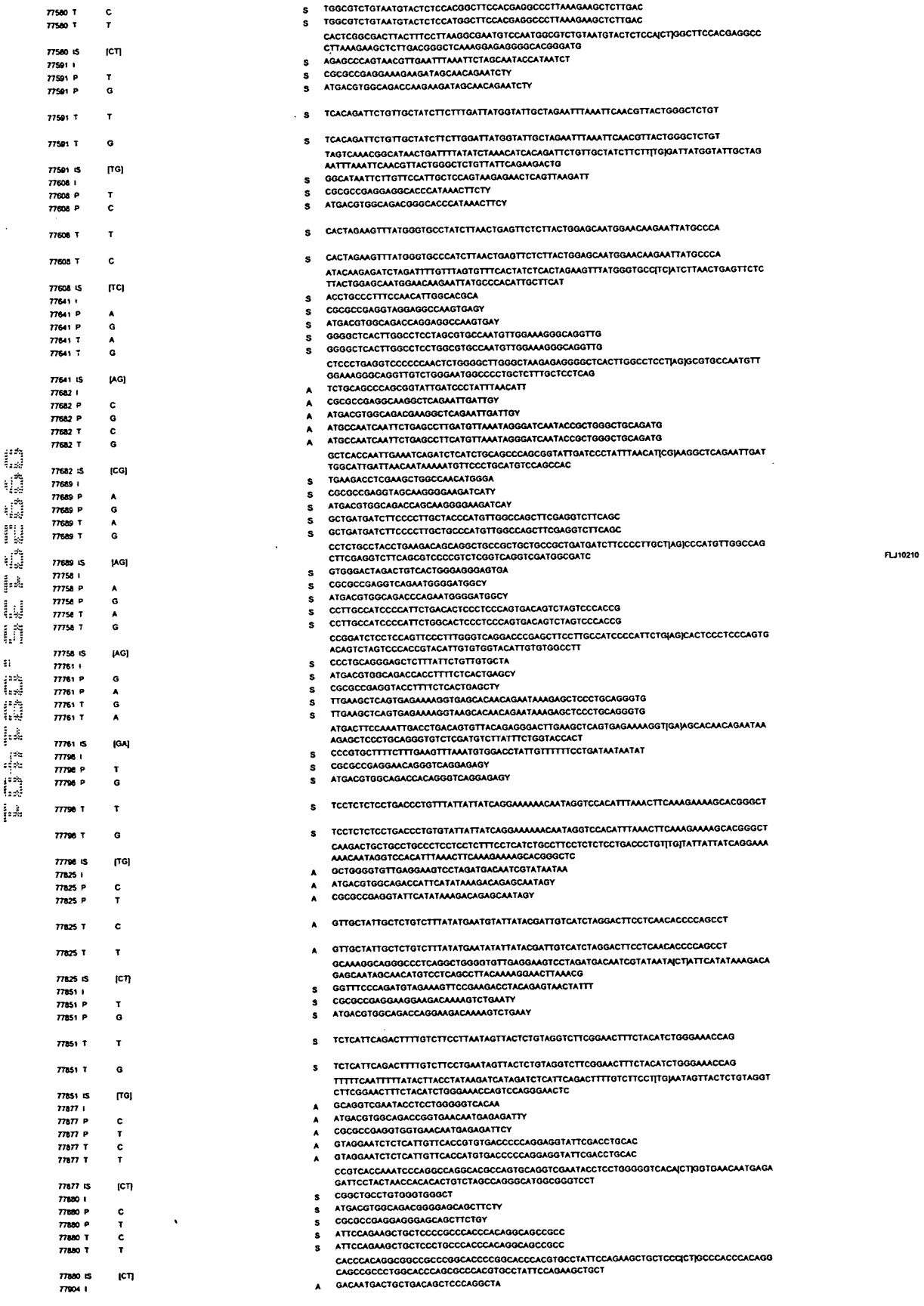


FIGURE 129D

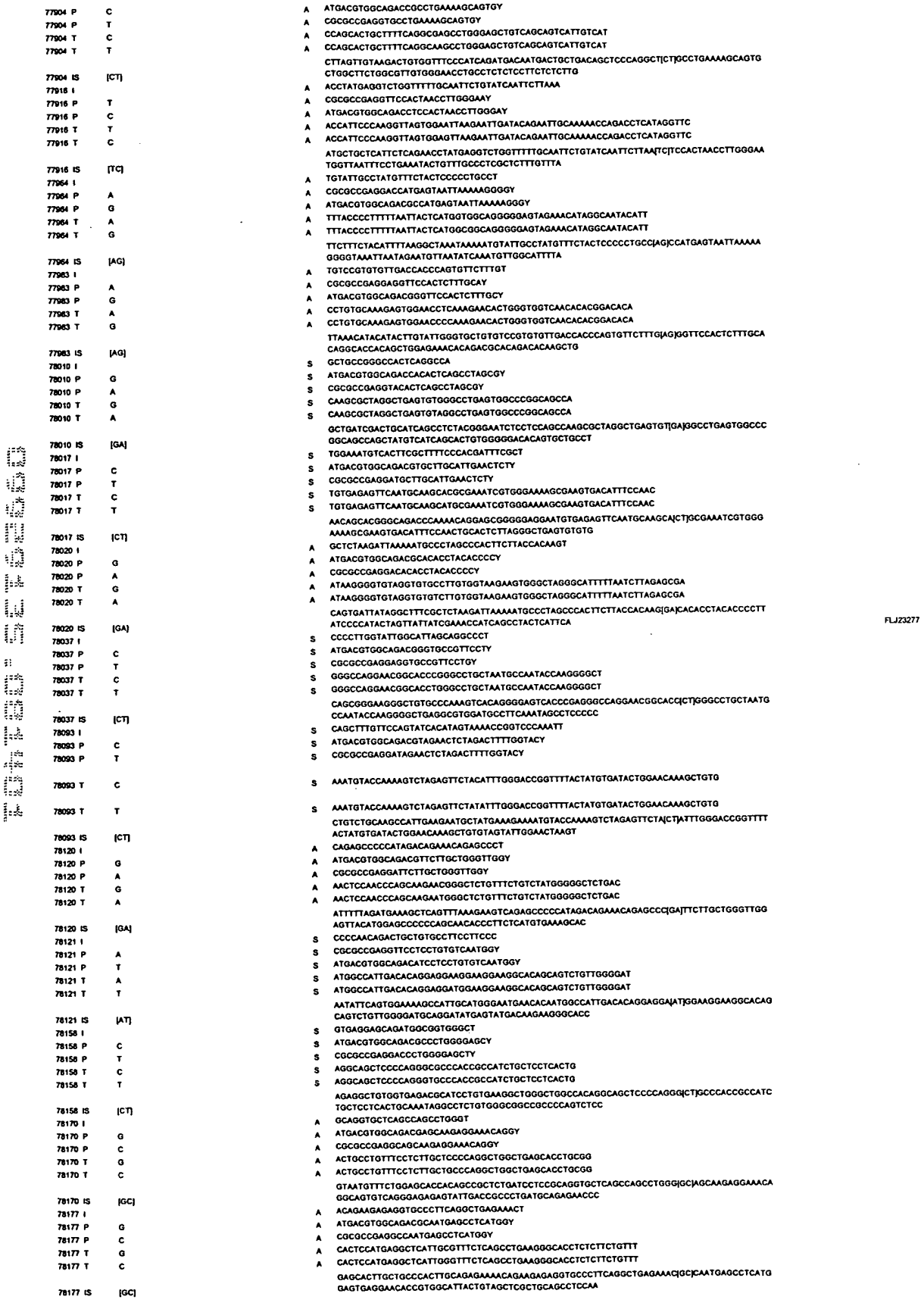
77205 I		S	CTTGGATGTCCACCTCCAAGGGTGTGTCTTCT
77205 P	T	S	CGCGCCGAGGATCAAGCGTTGCCTCTY
77205 P	C	S	ATGACGTGGCAGACGTCAAGCGTTGCCTCY
77205 T	T	S	GAAGAGAGGCAACGCTTGATGAAGACACACCCTTGGAGGTGGACATCCAAGCC
77205 T	C	S	GAAGAGAGGCAACGCTTGACGAAGACACACCCTTGGAGGTGGACATCCAAGCC
77205 IS	[TC]		CCCTTCTTCTCCCCAACAGGAAGCTTGGGAGCTTTGTGAAGGAAGAGAGGCAACGCTTGA[T/C]GAAGACACACCCTT GGAGGTGGACATCCAAGCCAGCCTCTCAGCCAAACTGTCTCAACTC
77251 I		A	GGCCAGGTGGGCAGCGGTTGTT
77251 P	G	A	ATGACGTGGCAGACGAGACCCTTCCCCACY
77251 P	A	A	CGCGCCGAGGAAGACCCTTCCCCACY
77251 T	G	A	GGCAGTGGGGAAGGGTCTCACAACCGCTGCCCACCTGGCCAG
77251 T	A	A	GGCAGTGGGGAAGGGTCTTACAACCGCTGCCCACCTGGCCAG
77251 IS	[GA]		CAAGCTGCGGGAGGCAGCTGCCCTGAGGCACCACAGTCTGGCCAGGTGGGCAGCGGTTGT[G/A]AGACCCTTCCCCA CTGCCAGTGCACCCCCCTCTTCGGCACCCCCCTTCAACCGTTCCTGG
77268 I		S	CAAGGTTTAGAATCTGGATATAAGGACCCTTATATAATGCAATGATTTAACT
77268 P	T	S	CGCGCCGAGGATATTTATTGTCTATCACATGCCY
77268 P	C	S	ATGACGTGGCAGACGTATTTATTGTCTATCACATGCCY
77268 T	T	S	TCCTGGCATGTGATAGACAATAAATATGTTAAATCATTGCATTATATAAGGGTCCTTATATCCAGATTCTAAACCTTGAC
77268 T	C	S	TCCTGGCATGTGATAGACAATAAATACGTTAAATCATTGCATTATATAAGGGTCCTTATATCCAGATTCTAAACCTTGAC
77268 IS	[TC]		AGAGCAAGAATATTTTTATTGTACCTAAAACAATTCCTGGCATGTGATAGACAATAAATA[T/C]GTTAAATCATTGCATTA TATAAGGGTCCTTATATCCAGATTCTAAACCTTGACTCAACAC
77343 I		A	ACAGCTGATTTGGATAAGGGTCAACTGATACCCACAAAGATTAAT
77343 P	C	A	ATGACGTGGCAGACCACCACAATTTACTATTGTGTTAY
77343 P	A	A	CGCGCCGAGGAACCACAATTTACTATTGTGTTAGY
77343 T	C	A	TGTACTAACACAATAGTAAATTGTGGTGTTAATCTTTGTGGGTATCAGTTGACCCTTATCCAAATCAGCTGTTA
77343 T	A	A	TGTACTAACACAATAGTAAATTGTGGTTTTAATCTTTGTGGGTATCAGTTGACCCTTATCCAAATCAGCTGTTA
77343 IS	[CA]		GGCACATATTTATGTAACAGCTGATTTGGATAAGGGTCAACTGATACCCACAAAGATTAA[C/A]ACCACAATTTACTATTG TGTTAGTACAGTGTTGAAACCAAATAAAATAACCAGGAGTAAA
77357 I		S	GGGGGAGGCCCTCATTCCCCCT
77357 P	C	S	ATGACGTGGCAGACGTGGGACCGCATGTY
77357 P	T	S	CGCGCCGAGGATGGGACCGCATGTY
77357 T	C	S	GGCCACATGCGGTCCCACGGGGGAATGAGGGCCTCCCCCAA
77357 T	T	S	GGCCACATGCGGTCCCATGGGGGAATGAGGGCCTCCCCCAA
77357 IS	[CT]		CTCCATCTGCCTGAAGGAGTTCAAGAACCTGCCTGCCCTGAATGGCCACATGCGGTCCCA[C/T]GGGGGAATGAGGGC CTCCCCCAACCTCAAACAGGTTAGCAGGAGCCAGTTCCCGGTCCTT
77414 I		S	ACCCCCCACCCTTGAGTCCCCCT
77414 P	C	S	ATGACGTGGCAGACGGGACAGCTCACAGAY
77414 P	T	S	CGCGCCGAGGAGGACAGCTCACAGAGY
77414 T	C	S	GTTGCTCTGTGAGCTGTCCCGGGGGACTCAAGGGTGGGGGGTAT
77414 T	T	S	GTTGCTCTGTGAGCTGTCCTGGGGGACTCAAGGGTGGGGGGTAT
77414 IS	[CT]		ACCTACGGTGTCACCAGAGAGCAGGAAACCATGGTCTGCCTGTTGCTCTGTGAGCTGTCC[C/T]GGGGGACTCAAGGG TGGGGGGTATTCTGCTGCCCTCTGTCCCTTCCTCTGGGATGTCTGA
77438 I		A	CATACTTTGTTGAATAATTTTGGGTTTTTTCACCAATACATTATTTCAATTCATTACT
77438 P	A	A	CGCGCCGAGGATTAGGAGATTTGTTAAATTATATAAAGAAAAY
77438 P	G	A	ATGACGTGGCAGACGTTAGGAGATTTGTTAAATTATATAAAGAAAY
77438 T	A	A	TATCTTTTCTTTATATAATTTAACAAATCTCCTAATGTAATGAATTGAAATAATGTATTGGTGAAAAAACCCAAAATTATT CAACAAAGTATGCT
77438 T	G	A	TATCTTTTCTTTATATAATTTAACAAATCTCCTAACGTAATGAATTGAAATAATGTATTGGTGAAAAAACCCAAAATTATT CAACAAAGTATGCT
77438 IS	[AG]		AAGCATACTTTGTTGAATAATTTTGGGTTTTTTCACCAATACATTATTTCAATTCATTAC[A/G]TTAGGAGATTTGTTAAAT TATATAAAGAAAAGATAATATCAATTCTATAATAAATAATAG
77440 I		S	TCTAAAGCTTCTTACCTTTTTCGGTATTTCCACAGTGGAGTAAACCT
77440 P	C	S	ATGACGTGGCAGACGTATTTGCTGGATCTTCCTTY
77440 P	T	S	CGCGCCGAGGATATTTGCTGGATCTTCCTTTY
77440 T	C	S	TCCTAAAGGAAGATCCAGCAAATACGGTTTACTCCACTGTGGAAATACCGAAAAAGGTAAGAAGCTTTAGAGC
77440 T	T	S	TCCTAAAGGAAGATCCAGCAAATATGGTTTACTCCACTGTGGAAATACCGAAAAAGGTAAGAAGCTTTAGAGC
77440 IS	[CT]		TTCTTTTGTTTGTTGTTTGTTTTTAAAAGAGAACAATCCTAAAGGAAGATCCAGCAAATA[C/T]GGTTTACTCCACTGTGG AAATACCGAAAAAGGTAAGAAGCTTTAGAGCTTAACTTCGTCT
77461 I		S	CACCGCTGGAGCAGAATGAAACTTCACTTGCTA
77461 P	A	S	CGCGCCGAGGTCTTCCTTCCTTTTTAAAAATAAACAY
77461 P	G	S	ATGACGTGGCAGACCCTTCCTTCCTTTTTAAAAATAAACY
77461 T	A	S	ATAATGTTTATTTTTAAAAAGGAAGGAAGAAGCAAGTGAAGTTTCATTCTGCTCCAGCGGTGGG
77461 T	G	S	ATAATGTTTATTTTTAAAAAGGAAGGAAGGAGCAAGTGAAGTTTCATTCTGCTCCAGCGGTGGG
77461 IS	[AG]		ATCTGGTTATGTCTTATTTTTTTCCTAAAAGATAATGTTTATTTTTAAAAAGGAAGGAAG[A/G]AGCAAGTGAAGTTTCAT TCTGCTCCAGCGGTGGGGAAGCCGCTGAATCCACCTGCTTCTC
77471 I		A	CATTCATGAGTTTAACCATTCTTGTTACAAATTAATATTACAGTTCCATATACAAACAAAA
77471 P	T	A	CGCGCCGAGGTATTCACTCTCTAACGAAGAATAAAY
77471 P	C	A	ATGACGTGGCAGACCATTCACTCTCTAACGAAGAAY
77471 T	T	A	ATTATTTATTCTTCGTTAGAGAGTGAATATTTGTTTGTATATGGAACTGTAATATTAATTTGTAACAAGAATGGTTAAACT CATGAATG
77471 T	C	A	ATTATTTATTCTTCGTTAGAGAGTGAATGTTTGTTTGTATATGGAACTGTAATATTAATTTGTAACAAGAATGGTTAAAC TCATGAATG
77471 IS	[TC]		CATTCATGAGTTTAACCATTCTTGTTACAAATTAATATTACAGTTCCATATACAAACAAAA[T/C]ATTCACTCTCTAACGAAG AATAAATAATTTATTGGTTTACCTTTGTCCATGATCTTTGAT
77497 I		A	TCTCCTTCATCACAGACTGGCCCTCCCTGA
77497 P	C	A	ATGACGTGGCAGACCACCCCAGACACTTGGY
77497 P	T	A	CGCGCCGAGGTACCCCAGACACTTGGY
77497 T	C	A	TTCACCAAGTGTCTGGGGTGCAGGGAGGGCCAGTCTGTGATGAAGGAGAAG
77497 T	T	A	TTCACCAAGTGTCTGGGGTACAGGGAGGGCCAGTCTGTGATGAAGGAGAAG
77497 IS	[CT]		CCCAGAAAGTCTTCCCTGAGGGGTTCTTTCTTCTCCTTCATCACAGACTGGCCCTCCCTG[C/T]ACCCCAGACACTTGG TGAAAGGTGGCCATGACTTCTATCTCCGGGGCTTGGAGCTCTGCT
77547 I		S	CCCAGCCTGCATTATTCTTTCTTTTCTATTTCTGAAAATAATTTTACCT
77547 P	C	S	ATGACGTGGCAGACGGTTAAAAGCATTTTCAGGTTY
77547 P	T	S	CGCGCCGAGGAGTTAAAAGCATTTTCAGGTTCY
77547 T	C	S	CTAAGAACCTGAAAATGCTTTTAACCGGTAAAATTATTTTCAGAAATAGAAAAGAAAGAATAATGCAGGCTGGGAA
77547 T	T	S	CTAAGAACCTGAAAATGCTTTTAACTGGTAAAATTATTTTCAGAAATAGAAAAGAAAGAATAATGCAGGCTGGGAA
77547 IS	[CT]		ACTGTGTTACAACGTTAACTTTGTAACAGTTTTTCCTAAGAACCTGAAAATGCTTTTAAC[C/T]GGTAAAATTATTTTCAG AAATAGAAAAGAAAGAATAATGCAGGCTGGGAAGAAACATGCT
77580 I		S	CAAGAGCTTCTTTAAGGGCCTCGTGGAAGCCT
77580 P	C	S	ATGACGTGGCAGACGTGGAGAGTACATTACAGACY
77580 P	T	S	CGCGCCGAGGATGGAGAGTACATTACAGACY

FIGURE 129D

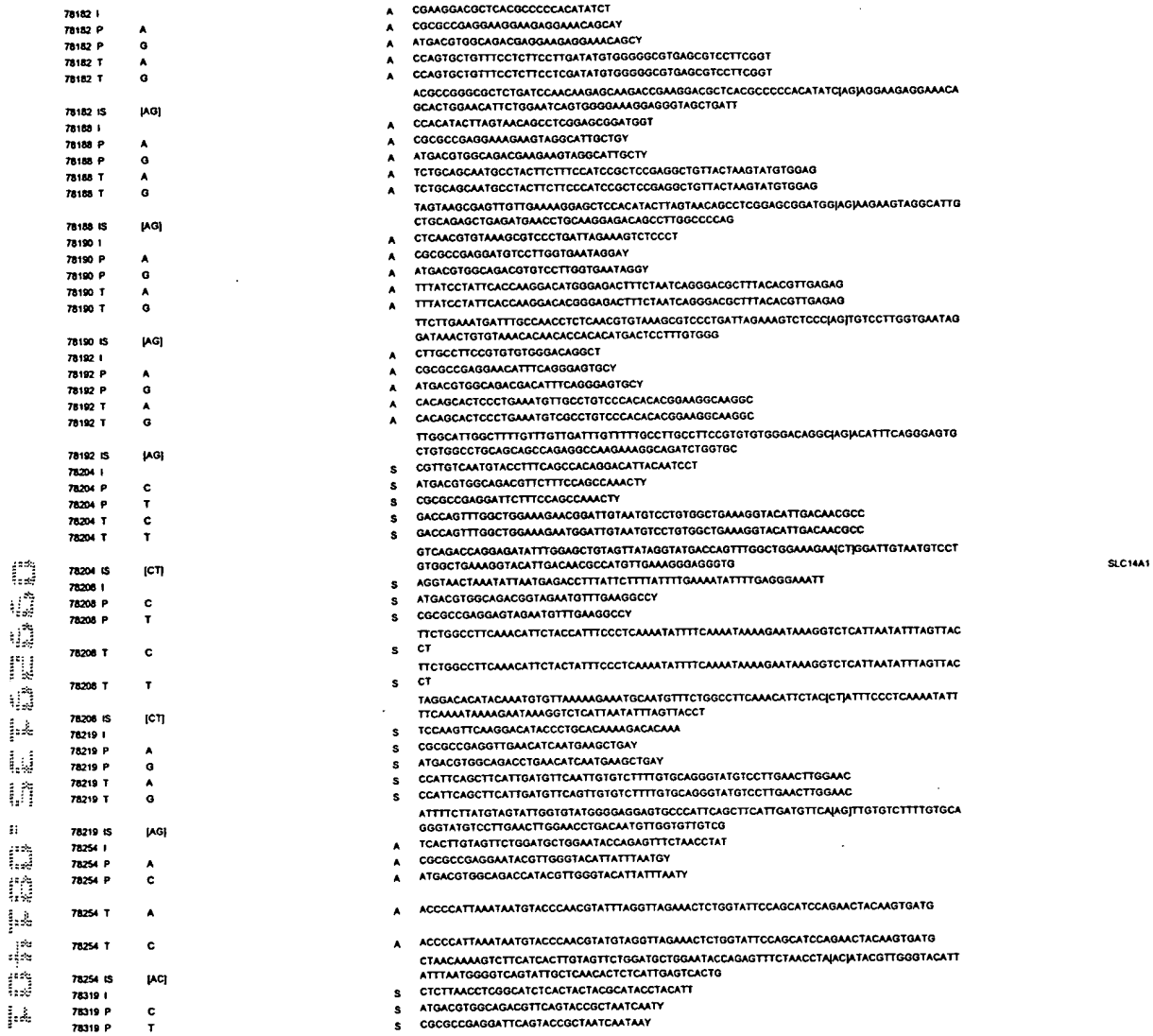


FLJ10210

FIGURE 129D



FLJ23277


78182 I
78182 P A
78182 P G
78182 T A
78182 T G
78182 IS [AG]
78188 I
78188 P A
78188 P G
78188 T A
78188 T G
78188 IS [AG]
78190 I
78190 P A
78190 P G
78190 T A
78190 T G
78190 IS [AG]
78192 I
78192 P A
78192 P G
78192 T A
78192 T G
78192 IS [AG]
78204 I
78204 P C
78204 P T
78204 T C
78204 T T
78204 IS [CT]
78208 I
78208 P C
78208 P T
78208 T C
78208 T T
78208 IS [CT]
78219 I
78219 P A
78219 P G
78219 T A
78219 T G
78219 IS [AG]
78254 I
78254 P A
78254 P C
78254 T A
78254 T C
78254 IS [AC]
78319 I
78319 P C
78319 P T
78319 T C
78319 T T
78319 IS [CT]
78393 I
78393 P T
78393 P C
78393 T T
78393 T C
78393 IS [TC]
78406 I
78406 P G
78406 P A
78406 T G
78406 T A
78406 IS [GA]
78418 I
78418 P C
78418 P A
78418 T C
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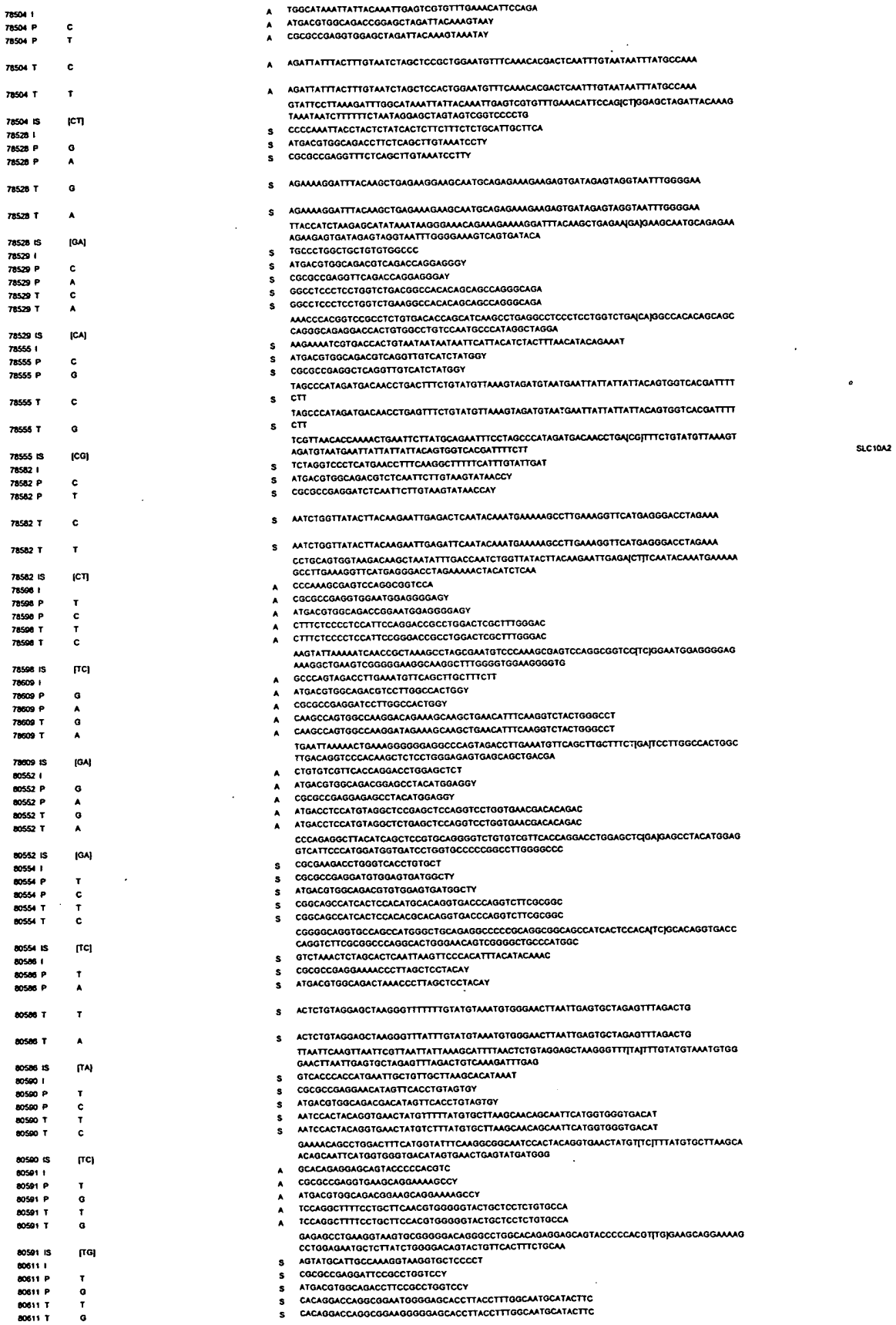
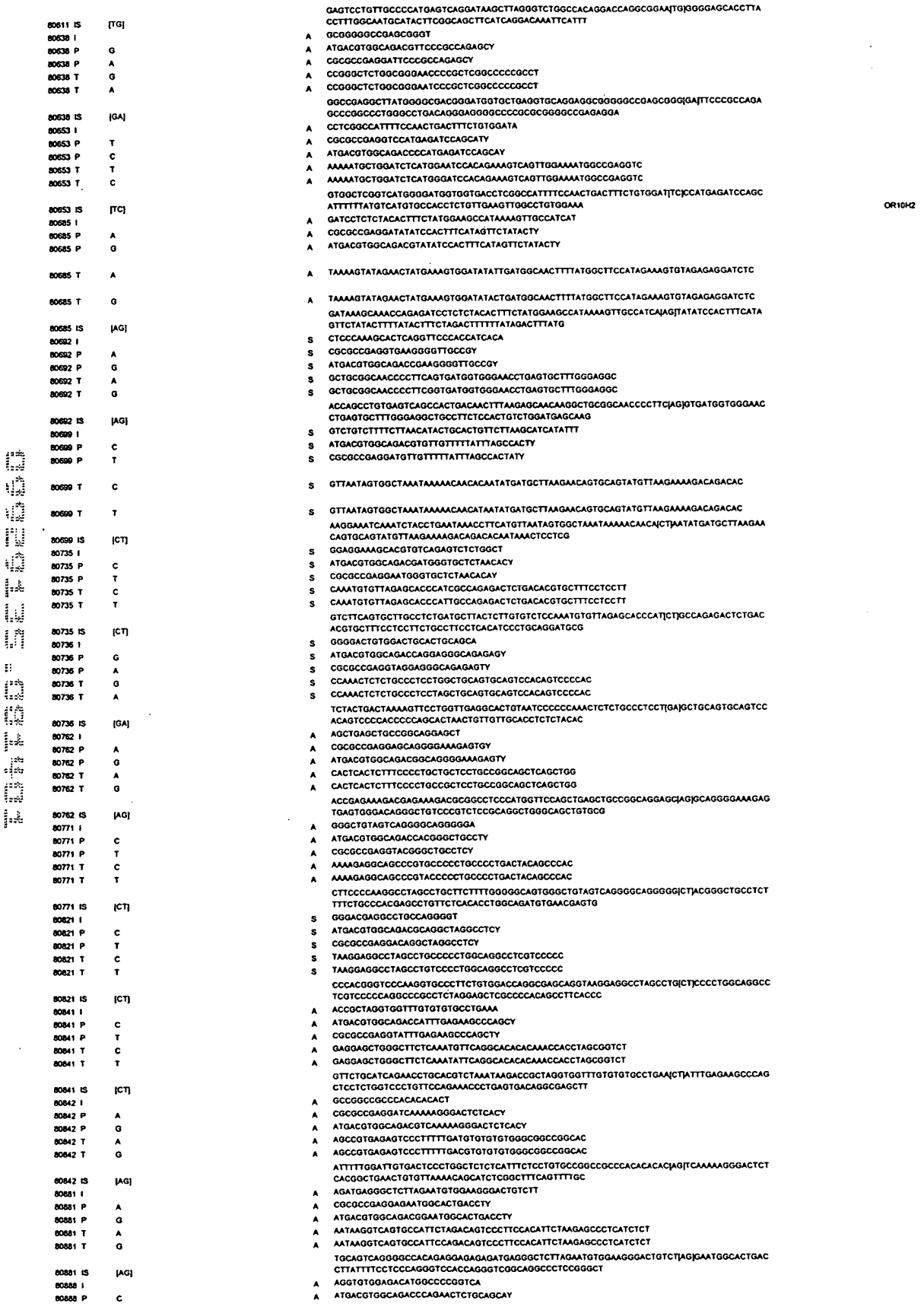

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78504 T T
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78528 I
78528 P G
78528 P A
78528 T G
78528 T A
78528 IS [GA]
78529 I
78529 P C
78529 P A
78529 T C
78529 T A
78529 IS [CA]
78555 I
78555 P C
78555 P G
78555 T C
78555 T G
78555 IS [CG]
78582 I
78582 P C
78582 P T
78582 T C
78582 T T
78582 IS [CT]
78598 I
78598 P T
78598 P C
78598 T T
78598 T C
78598 IS [TC]
78609 I
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78609 P A
78609 T G
78609 T A
78609 IS [GA]
80552 I
80552 P G
80552 P A
80552 T G
80552 T A
80552 IS [GA]
80554 I
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80554 P C
80554 T T
80554 T C
80554 IS [TC]
80586 I
80586 P T
80586 P A
80586 T T
80586 T A
80586 IS [TA]
80590 I
80590 P T
80590 P C
80590 T T
80590 T C
80590 IS [TC]
80591 I
80591 P T
80591 P G
80591 T T
80591 T G
80591 IS [TG]
80611 I
80611 P T
80611 P G
80611 T T
80611 T G
SLC10A2

FIGURE 129D


GAGTCCTGTTGCCCCATGAGTCAGGATAAGCTTAGGGTCTGGCCACAGGACCAGGCGGAA[TG]GGGGAGCACCTTA
80611 IS [TG] CCTTTGGCAATGCATACTTCGGCAGCTTCATCAGGACAAATTCATTT
80638 I A GCGGGGGCCGAGCGGGT
80638 P G A ATGACGTGGCAGACGTTCCCGCCAGAGCY
80638 P A A CGCGCCGAGGATTCCCGCCAGAGCY
80638 T G A CCGGGCTCTGGCGGGAACCCCGCTCGGCCCCCGCCT
80638 T A A CCGGGCTCTGGCGGGAATCCCGCTCGGCCCCCGCCT
GGCCGAGGCTTATGGGGCGACGGGATGGTGCTGAGGTGCAGGAGGCGGGGGCCGAGCGGG[GA]TTCCCGCCAGA
80638 IS [GA] GCCCGGCCCTGGGCCTGACAGGGAGGGGCCCCGCGCGGGGCCGAGAGGA
80653 I A CCTCGGCCATTTTCCAACTGACTTTCTGTGGATA
80653 P T A CGCGCCGAGGTCCATGAGATCCAGCATY
80653 P C A ATGACGTGGCAGACCCCATGAGATCCAGCAY
80653 T T A AAAAATGCTGGATCTCATGGAATCCACAGAAAGTCAGTTGGAAAATGGCCGAGGTC
80653 T C A AAAAATGCTGGATCTCATGGGATCCACAGAAAGTCAGTTGGAAAATGGCCGAGGTC
GTGGCTCGGTCATGGGGATGGTGGTGACCTCGGCCATTTTCCAACTGACTTTCTGTGGAT[TC]CCATGAGATCCAGC
80653 IS [TC] ATTTTTTATGTCATGTGCCACCTCTGTTGAAGTTGGCCTGTGGAAA
80685 I A GATCCTCTCTACACTTTCTATGGAAGCCATAAAAGTTGCCATCAT
80685 P A A CGCGCCGAGGATATATCCACTTTCATAGTTCTATACTY
80685 P G A ATGACGTGGCAGACGTATATCCACTTTCATAGTTCTATACTY
80685 T A A TAAAAGTATAGAACTATGAAAGTGGATATATTGATGGCAACTTTTATGGCTTCCATAGAAAGTGTAGAGAGGATCTC
80685 T G A TAAAAGTATAGAACTATGAAAGTGGATATACTGATGGCAACTTTTATGGCTTCCATAGAAAGTGTAGAGAGGATCTC
GATAAAGCAAACCAGAGATCCTCTCTACACTTTCTATGGAAGCCATAAAAGTTGCCATCA[AG]TATATCCACTTTCATA
80685 IS [AG] GTTCTATACTTTTATACTTTCTAGACTTTTTTATAGACTTTATG
80692 I S CTCCCAAAGCACTCAGGTTCCCACCATCACA
80692 P A S CGCGCCGAGGTGAAGGGGTTGCCGY
80692 P G S ATGACGTGGCAGACCGAAGGGGTTGCCGY
80692 T A S GCTGCGGCAACCCCTTCAGTGATGGTGGGAACCTGAGTGCTTTGGGAGGC
80692 T G S GCTGCGGCAACCCCTTCGGTGATGGTGGGAACCTGAGTGCTTTGGGAGGC
ACCAGCCTGTGAGTCAGCCACTGACAACTTTAAGAGCAACAAGGCTGCGGCAACCCCTTC[AG]GTGATGGTGGGAAC
80692 IS [AG] CTGAGTGCTTTGGGAGGCTGCCTTCTCCACTGTCTGGATGAGCAAG
80699 I S GTCTGTCTTTTCTTAACATACTGCACTGTTCTTAAGCATCATATTT
80699 P C S ATGACGTGGCAGACGTGTTGTTTTTATTTAGCCACTY
80699 P T S CGCGCCGAGGATGTTGTTTTTATTTAGCCACTATY
80699 T C S GTTAATAGTGGCTAAATAAAAACAACACAATATGATGCTTAAGAACAGTGCAGTATGTTAAGAAAAGACAGACAC
80699 T T S GTTAATAGTGGCTAAATAAAAACAACATAATATGATGCTTAAGAACAGTGCAGTATGTTAAGAAAAGACAGACAC
AAGGAAATCAAATCTACCTGAATAAACCTTCATGTTAATAGTGGCTAAATAAAAACAACA[CT]AATATGATGCTTAAGAA
80699 IS [CT] CAGTGCAGTATGTTAAGAAAAGACAGACACAATAAACTCCTCG
80735 I S GGAGGAAAGCACGTGTCAGAGTCTCTGGCT
80735 P C S ATGACGTGGCAGACGATGGGTGCTCTAACACY
80735 P T S CGCGCCGAGGAATGGGTGCTCTAACACAY
80735 T C S CAAATGTGTTAGAGCACCCATCGCCAGAGACTCTGACACGTGCTTTCCTCCTT
80735 T T S CAAATGTGTTAGAGCACCCATTGCCAGAGACTCTGACACGTGCTTTCCTCCTT
GTCTTCAGTGCTTGCCTCTGATGCTTACTCTTGTGTCTCCAAATGTGTTAGAGCACCCAT[CT]GCCAGAGACTCTGAC
80735 IS [CT] ACGTGCTTTCCTCCTTCTGCCTTCCTCACATCCCTGCAGGATGCG
80736 I S GGGGACTGTGGACTGCACTGCAGCA
80736 P G S ATGACGTGGCAGACCAGGAGGGCAGAGAGY
80736 P A S CGCGCCGAGGTAGGAGGGCAGAGAGTY
80736 T G S CCAAACTCTCTGCCCTCCTGGCTGCAGTGCAGTCCACAGTCCCCAC
80736 T A S CCAAACTCTCTGCCCTCCTAGCTGCAGTGCAGTCCACAGTCCCCAC
TCTACTGACTAAAAGTTCCTGGTTGAGGCACTGTAATCCCCCCAAACTCTCTGCCCTCCT[GA]GCTGCAGTGCAGTCC
80736 IS [GA] ACAGTCCCCACCCCCAGCACTAACTGTTGTTGCACCTCTCTACAC
80762 I A AGCTGAGCTGCCGGCAGGAGCT
80762 P A A CGCGCCGAGGAGCAGGGGAAAGAGTGY
80762 P G A ATGACGTGGCAGACGGCAGGGGAAAGAGTY
80762 T A A CACTCACTCTTTCCCCTGCTGCTCCTGCCGGCAGCTCAGCTGG
80762 T G A CACTCACTCTTTCCCCTGCCGCTCCTGCCGGCAGCTCAGCTGG
ACCGAGAAAGACGAGAAAGACGCGGCCTCCCATGGTTCCAGCTGAGCTGCCGGCAGGAGC[AG]GCAGGGGAAAGAG
80762 IS [AG] TGAGTGGGACAGGGCTGTCCCGTCTCCGCAGGCTGGGCAGCTGTGCG
80771 I A GGGCTGTAGTCAGGGGCAGGGGGA
80771 P C A ATGACGTGGCAGACCACGGGCTGCCTY
80771 P T A CGCGCCGAGGTACGGGCTGCCTCY
80771 T C A AAAAGAGGCAGCCCGTGCCCCCTGCCCCTGACTACAGCCCAC
80771 T T A AAAAGAGGCAGCCCGTACCCCCTGCCCCTGACTACAGCCCAC
CTTCCCCAAGGCCTAGCCTGCTTCTTTTGGGGGCAGTGGGCTGTAGTCAGGGGCAGGGGG[CT]ACGGGCTGCCTCT
80771 IS [CT] TTTCTGCCCACGAGCCTGTTCTCACACCTGGCAGATGTGAACGAGTG
80821 I S GGGACGAGGCCTGCCAGGGGT
80821 P C S ATGACGTGGCAGACGCAGGCTAGGCCTCY
80821 P T S CGCGCCGAGGACAGGCTAGGCCTCY
80821 T C S TAAGGAGGCCTAGCCTGCCCCCTGGCAGGCCTCGTCCCCC
80821 T T S TAAGGAGGCCTAGCCTGTCCCCTGGCAGGCCTCGTCCCCC
CCCACGGGTCCCAAGGTGCCCTTCTGTGGACCAGGCGAGCAGGTAAGGAGGCCTAGCCTG[CT]CCCCTGGCAGGCC
80821 IS [CT] TCGTCCCCCAGGCCCGCCTCTAGGAGCTCGCCCCCACAGCCTTCACCC
80841 I A ACCGCTAGGTGGTTTGTGTGTGCCTGAAA
80841 P C A ATGACGTGGCAGACCATTTGAGAAGCCCAGCY
80841 P T A CGCGCCGAGGTATTTGAGAAGCCCAGCTY
80841 T C A GAGGAGCTGGGCTTCTCAAATGTTCAGGCACACACAAACCACCTAGCGGTCT
80841 T T A GAGGAGCTGGGCTTCTCAAATATTCAGGCACACACAAACCACCTAGCGGTCT
GTTCTGCATCAGAACCTGCACGTCTAAATAAGACCGCTAGGTGGTTTGTGTGTGCCTGAA[CT]ATTTGAGAAGCCCAG
80841 IS [CT] CTCCTCTGGTCCCTGTTCCAGAAACCCTGAGTGACAGGCGAGCTT
80842 I A GCCGGCCGCCCACACACACT
80842 P A A CGCGCCGAGGATCAAAAAGGGACTCTCACY
80842 P G A ATGACGTGGCAGACGTCAAAAAGGGACTCTCACY
80842 T A A AGCCGTGAGAGTCCCTTTTTGATGTGTGTGTGGGCGGCCGGCAC
80842 T G A AGCCGTGAGAGTCCCTTTTTGACGTGTGTGTGGGCGGCCGGCAC
ATTTTTGGATTGTGACTCCCTGGCTCTCTCATTTCTCCTGTGCCGGCCGCCCACACACAC[AG]TCAAAAAGGGACTCT
80842 IS [AG] CACGGCTGAACTGTGTTAAAACAGCATCTCGGCTTTCAGTTTTGC
80881 I A AGATGAGGGCTCTTAGAATGTGGAAGGGACTGTCTT
80881 P A A CGCGCCGAGGAGAATGGCACTGACCTY
80881 P G A ATGACGTGGCAGACGGAATGGCACTGACCTY
80881 T A A AATAAGGTCAGTGCCATTCTAGACAGTCCCTTCCACATTCTAAGAGCCCTCATCTCT
80881 T G A AATAAGGTCAGTGCCATTCCAGACAGTCCCTTCCACATTCTAAGAGCCCTCATCTCT
TGCAGTCAGGGGCCACAGAGGAGAGAGATGAGGGCTCTTAGAATGTGGAAGGGACTGTCT[AG]GAATGGCACTGAC
80881 IS [AG] CTTATTTTCCTCCCAGGGTCCACCAGGGTCGGCAGGCCCTCCGGGCT
80888 I A AGGTGTGGAGACATGGCCCCGGTCA
80888 P C A ATGACGTGGCAGACCCAGAACTCTGCAGCAY
OR10H2

80888 P	T	A	CGCGCCGAGGTCAGAACTCTGCAGCAY	
80888 T	C	A	TGTCTGCTGCAGAGTTCTGGGACCGGGGCCATGTCTCCACACCTCA	
80888 T	T	A	TGTCTGCTGCAGAGTTCTGAGACCGGGGCCATGTCTCCACACCTCA	
80888 IS	[CT]		TCCCTCCAGGACTCACCTAGGCCCAGGAGAGCAGTGAGGTGTGGAGACATGGCCCCGGTC[CT]CAGAACTCTGCAG CAGACACAAGCAGACAGGATGTGCTGGCCGGGGGCCTCCTGCCCGTG	
80889 I		S	GCAGGAGGCCCCCGGCCAGA	
80889 P	G	S	ATGACGTGGCAGACCACATCCTGTCTGCTTGY	
80889 P	A	S	CGCGCCGAGGTACATCCTGTCTGCTTGTY	
80889 T	G	S	AGACACAAGCAGACAGGATGTGCTGGCCGGGGGCCTCCTGCCC	
80889 T	A	S	AGACACAAGCAGACAGGATGTACTGGCCGGGGGCCTCCTGCCC	
80889 IS	[GA]		AGGTGTGGAGACATGGCCCCGGTCCCAGAACTCTGCAGCAGACACAAGCAGACAGGATGT[GA]CTGGCCGGGGGCC TCCTGCCCGTGGGGTTTCCACAGCAACTGCCTCACACAAGAGGGAGA	
80912 I		A	CCACATCATCTCCTTTGGGCTGCAGGATGTCA	
80912 P	C	A	ATGACGTGGCAGACCGAAGCCATGTCCATCY	
80912 P	T	A	CGCGCCGAGGTGAAGCCATGTCCATCAY	
80912 T	C	A	GACCTGATGGACATGGCTTCGGACATCCTGCAGCCCAAAGGAGATGATGTGGCC	
80912 T	T	A	GACCTGATGGACATGGCTTCAGACATCCTGCAGCCCAAAGGAGATGATGTGGCC	
80912 IS	[CT]		GATGTCACGGAGGTACCAGCTGATCCGGGCCACATCATCTCCTTTGGGCTGCAGGATGTC[CT]GAAGCCATGTCCAT CAGGTCAATACCTGGTGAGAAGGCATGATGGAGCTCATCCAGGCTC	
80969 I		A	GAGACTGAGCACCCTTCAGGAGCCAGCT	
80969 P	A	A	CGCGCCGAGGATGTGAATCTCAATGTCCACY	
80969 P	G	A	ATGACGTGGCAGACGTGTGAATCTCAATGTCCAY	
80969 T	A	A	TCATGTGGACATTGAGATTCACATGCTGGCTCCTGAAGGGTGCTCAGTCTCCT	
80969 T	G	A	TCATGTGGACATTGAGATTCACACGCTGGCTCCTGAAGGGTGCTCAGTCTCCT	
80969 IS	[AG]		GGCAGCAGTTCAAGCAGGACCTTAATCACCAAGGAGACTGAGCACCCTTCAGGAGCCAGC[AG]TGTGAATCTCAATG TCCACATGAAGATGTGGTAGATGGGGCTGCAGCGACCTCGGGCAGG	TK2
80975 I		S	GCGCGGTTGGGGCCACTGCT	
80975 P	C	S	ATGACGTGGCAGACGAGGCCGTTTTAGGTAGY	
80975 P	T	S	CGCGCCGAGGAAGGCCGTTTTAGGTAGY	
80975 T	C	S	CAACCTACCTAAAACGGCCTCGCAGTGGCCCCAACCGCGCAC	
80975 T	T	S	CAACCTACCTAAAACGGCCTTGCAGTGGCCCCAACCGCGCAC	
80975 IS	[CT]		CTCCCCCGCCCGCCAGGCCCGGACGGCCTCGCCCTCTTAGCAACCTACCTAAAACGGCCT[CT]GCAGTGGCCCCAA CCGCGCACTTGCTGCTTGTAACCCAGGCCTCGGCCCAAAACCCGCGA	
80979 I		S	CCCAGTGCCTGCCCCTCCCTT	
80979 P	T	S	CGCGCCGAGGAAGCACAAGCTGGAGAY	
80979 P	C	S	ATGACGTGGCAGACGAGCACAAGCTGGAGAY	
80979 T	T	S	GACTTCTCCAGCTTGTGCTTAGGGAGGGGCAGGCACTGGGGG	
80979 T	C	S	GACTTCTCCAGCTTGTGCTCAGGGAGGGGCAGGCACTGGGGG	
80979 IS	[TC]		AGTTGAGCCATGGGAGCCCTGAGAGCGCCACCACTGTGGGTGACTTCTCCAGCTTGTGCT[TC]AGGGAGGGGCAGG CACTGGGGGGACCTGGGCTCTGAGCCCCATCTCCCCCTCTCCCTGCA	
81022 I		A	GGGAAGCACAGCACCAGAGCTGCTGT	
81022 P	G	A	ATGACGTGGCAGACGCGCACAGCAGGAY	
81022 P	A	A	CGCGCCGAGGACGCACAGCAGGAAY	
81022 T	G	A	AGACTTCCTGCTGTGCGCCAGCAGCTCTGGTGCTGTGCTTCCCGT	
81022 T	A	A	AGACTTCCTGCTGTGCGTCAGCAGCTCTGGTGCTGTGCTTCCCGT	
81022 IS	[GA]		GGTGGGTATGGCAGGAAGGGGTCCTGGGTCCTCACGGGAAGCACAGCACCAGAGCTGCTG[GA]CGCACAGCAGGAA GTCTGGAGGGGAGCAGGGCCGGCGGCCTTAGCCAGGGCTCCGTCTCC	
81044 I		A	GGACTCACACCTTGGAGAGGTGAGTTGAGTGTA	
81044 P	C	A	ATGACGTGGCAGACCCTCCGAGATCCAGGY	
81044 P	T	A	CGCGCCGAGGTCTCCGAGATCCAGGTY	
81044 T	C	A	AGTAACCTGGATCTCGGAGGACACTCAACTCACCTCTCCAAGGTGTGAGTCCCC	
81044 T	T	A	AGTAACCTGGATCTCGGAGAACACTCAACTCACCTCTCCAAGGTGTGAGTCCCC	
81044 IS	[CT]		CCAACCCAGAAACAAAAGGACCGCTGGGGGACTCACACCTTGGAGAGGTGAGTTGAGTGT[CT]CTCCGAGATCCAGG TTACTTTTCTGTTATGTATCCTTGGCTTGCCTTGACACCATCAGAA	
81072 I		S	ATCGATGGTTGGAAGGAGGGGTGGGGA	
81072 P	A	S	CGCGCCGAGGTGAGGTCTTCAAGCTGTY	
81072 P	G	S	ATGACGTGGCAGACCGAGGTCTTCAAGCTGY	
81072 T	A	S	AAACACAGCTTGAAGACCTCACCCCACCCCTCCTTCCAACCATCGATGT	
81072 T	G	S	AAACACAGCTTGAAGACCTCGCCCCACCCCTCCTTCCAACCATCGATGT	
81072 IS	[AG]		AAACAATGCATTTGAAGCACAAACAGTAAGCTGGCTATGGAAACACAGCTTGAAGACCTC[AG]CCCCACCCCTCCTTC CAACCATCGATGTGCCTGAAGTCTTGCCCTGGCAGAGACCCTGCA	
81083 I		A	GGAGTTTTTGTTCTGTCTTTCAAACCATACAGGATATGAGGAGGTTGT	
81083 P	G	A	ATGACGTGGCAGACGTTTATTTCTTAGCCCTTTCAAY	
81083 P	A	A	CGCGCCGAGGATTTATTTCTTAGCCCTTTCAACY	
81083 T	G	A	CAAAGTTGAAAGGGCTAAGAAATAAACCAACCTCCTCATATCCTGTATGGTTTGAAAGACAGAACAAAAACTCCCC	
81083 T	A	A	CAAAGTTGAAAGGGCTAAGAAATAAATCAACCTCCTCATATCCTGTATGGTTTGAAAGACAGAACAAAAACTCCCC	
81083 IS	[GA]		GTCAGCTTTGGGGGGAGTTTTTGTTCTGTCTTTCAAACCATACAGGATATGAGGAGGTTG[GA]TTTATTTCTTAGCCCT TTCAACTTTGTAGCTGCTATGGGGTTTGTTTTGAGGGGGCTGGG	
81084 I		S	TGTCGCAGTGGGGTTTGAAAGCTCTAAGGAGAA	
81084 P	A	S	CGCGCCGAGGTTATGCTTCTCCCTCACTY	
81084 P	G	S	ATGACGTGGCAGACCTATGCTTCTCCCTCACTY	
81084 T	A	S	TTAAAGTGAGGGAGAAGCATAATCTCCTTAGAGCTTTCAAACCCCACTGCGACAGG	
81084 T	G	S	TTAAAGTGAGGGAGAAGCATAGTCTCCTTAGAGCTTTCAAACCCCACTGCGACAGG	
81084 IS	[AG]		TGAGCATACATCTGAGACCATCAAGCTTTACACTTTGACTTAAAGTGAGGGAGAAGCATA[AG]TCTCCTTAGAGCTTTC AAACCCCACTGCGACAGGTGGAAAACTGGAGAGACACCAGAGGA	
81098 I		A	GGACAAATGTGGGACTATGTGTGACAGTATGAGACTGGT	
81098 P	G	A	ATGACGTGGCAGACGTGTGAGAATGTGTGCGY	
81098 P	A	A	CGCGCCGAGGATGTGAGAATGTGTGCGY	
81098 T	G	A	CTGTCGCACACATTCTCACACCCAGTCTCATACTGTCACACATAGTCCCACATTTGTCCCA	
81098 T	A	A	CTGTCGCACACATTCTCACATCCAGTCTCATACTGTCACACATAGTCCCACATTTGTCCCA	
81098 IS	[GA]		TGTGTCAGTGTGAGACCATGTGGGACAAATGTGGGACTATGTGTGACAGTATGAGACTGG[GA]TGTGAGAATGTGTG CGACAGTATGAGACCGTTGCCCCGGTGTATGCGGGAGCCTTTGACA	
81110 I		S	CCCAGATAGTTGACACTCAGGAACAGCACGGAC	
81110 P	A	S	CGCGCCGAGGTCAATAATGGCTCTGCCY	
81110 P	T	S	ATGACGTGGCAGACACAATAATGGCTCTGCCY	
81110 T	A	S	CAGAGGCAGAGCCATTATTGATCCGTGCTGTTCCTGAGTGTCAACTATCTGGGGG	
81110 T	T	S	CAGAGGCAGAGCCATTATTGTTCCGTGCTGTTCCTGAGTGTCAACTATCTGGGGG	
81110 IS	[AT]		CTTTGTGACATCTCACATTTTTTCCAAGAAGATGATGAGACAGAGGCAGAGCCATTATTG[AT]TCCGTGCTGTTCCTGA GTGTCAACTATCTGGGGGGGACATTCCCAGGTAAGAAAAGCTAT	
81142 I		S	TGCTCCAGTTAAAGTCCTGTTAAAACACAAACCAGACATAATTCTTTCATTCT	
81142 P	C	S	ATGACGTGGCAGACGGGCATCACACAGTGY	
81142 P	T	S	CGCGCCGAGGAGGCATCACACAGTGAY	
81142 T	C	S	TATGTCACTGTGTGATGCCCGAATGAAAGAATTATGTCTGGTTTGTGTTTTAACAGGACTTTAACTGGAGCACA	
81142 T	T	S	TATGTCACTGTGTGATGCCTGAATGAAAGAATTATGTCTGGTTTGTGTTTTAACAGGACTTTAACTGGAGCACA	

FIGURE 129D

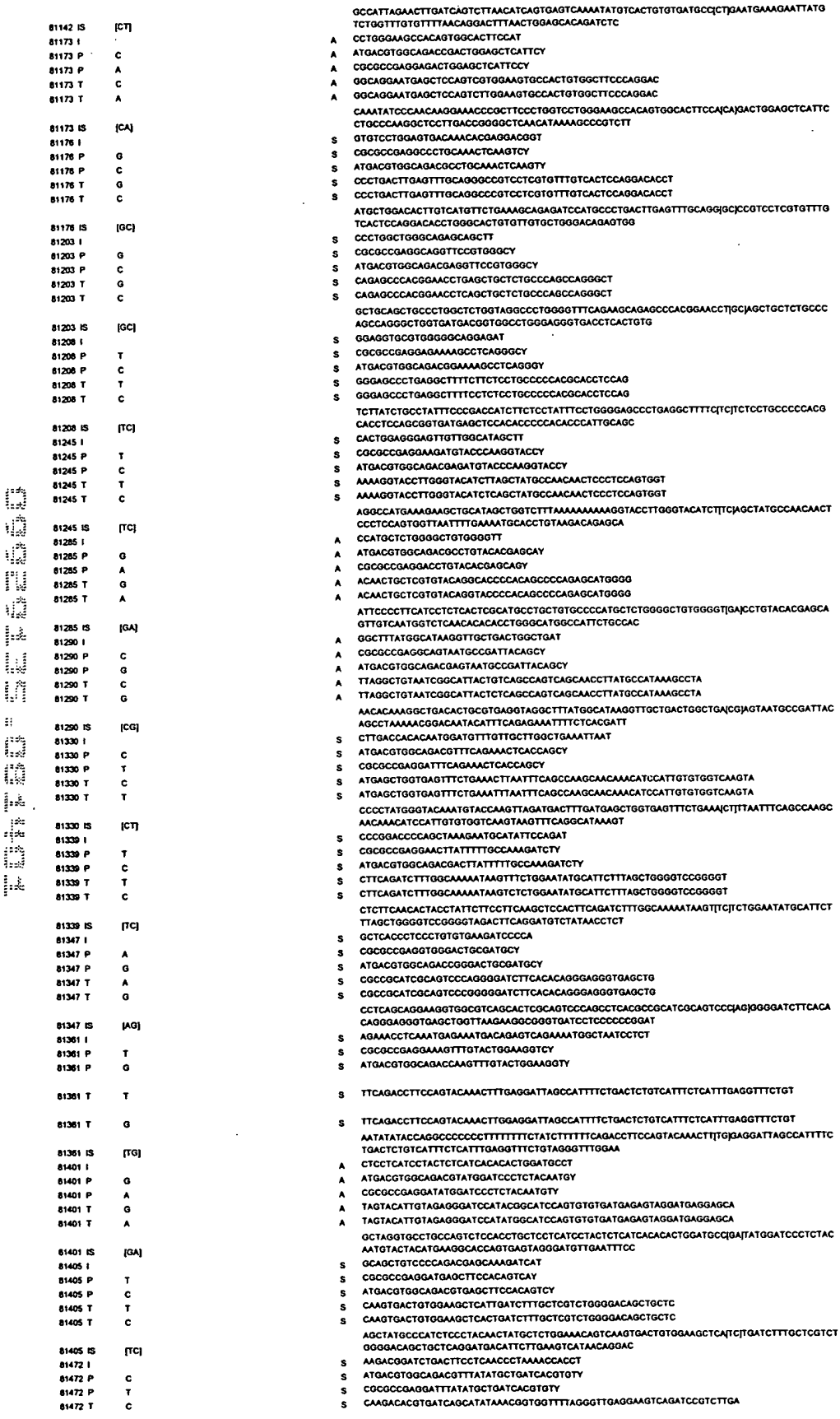

81142 IS [CT]
81173 I
81173 P C
81173 P A
81173 T C
81173 T A
81173 IS [CA]
81176 I
81176 P G
81176 P C
81176 T G
81176 T C
81176 IS [GC]
81203 I
81203 P G
81203 P C
81203 T G
81203 T C
81203 IS [GC]
81208 I
81208 P T
81208 P C
81208 T T
81208 T C
81208 IS [TC]
81245 I
81245 P T
81245 P C
81245 T T
81245 T C
81245 IS [TC]
81285 I
81285 P G
81285 P A
81285 T G
81285 T A
81285 IS [GA]
81290 I
81290 P C
81290 P G
81290 T C
81290 T G
81290 IS [CG]
81330 I
81330 P C
81330 P T
81330 T C
81330 T T
81330 IS [CT]
81339 I
81339 P T
81339 P C
81339 T T
81339 T C
81339 IS [TC]
81347 I
81347 P A
81347 P G
81347 T A
81347 T G
81347 IS [AG]
81361 I
81361 P T
81361 P G
81361 T T
81361 T G
81361 IS [TG]
81401 I
81401 P G
81401 P A
81401 T G
81401 T A
81401 IS [GA]
81405 I
81405 P T
81405 P C
81405 T T
81405 T C
81405 IS [TC]
81472 I
81472 P C
81472 P T
81472 T C
GCCATTAGAACTTGATCAGTCTTAACATCAGTGAGTCAAAATATGTCACTGTGTGATGCC[CT]GAATGAAAGAATTATG
TCTGGTTTGTGTTTTAACAGGACTTTAACTGGAGCACAGATCTC
A CCTGGGAAGCCACAGTGGCACTTCCAT
A ATGACGTGGCAGACCGACTGGAGCTCATTCY
A CGCGCCGAGGAGACTGGAGCTCATTCCY
A GGCAGGAATGAGCTCCAGTCGTGGAAGTGCCACTGTGGCTTCCCAGGAC
A GGCAGGAATGAGCTCCAGTCTTGGAAGTGCCACTGTGGCTTCCCAGGAC
CAAATATCCCAACAAGGAAACCCGCTTCCCTGGTCCTGGGAAGCCACAGTGGCACTTCCA[CA]GACTGGAGCTCATTC
CTGCCCAAGGCTCCTTGACCGGGGCTCAACATAAAAGCCCGTCTT
S GTGTCCTGGAGTGACAAACACGAGGACGGT
S CGCGCCGAGGCCCTGCAAACTCAAGTCY
S ATGACGTGGCAGACGCCTGCAAACTCAAGTY
S CCCTGACTTGAGTTTGCAGGGCCGTCCTCGTGTTTGTCACTCCAGGACACCT
S CCCTGACTTGAGTTTGCAGGCCCGTCCTCGTGTTTGTCACTCCAGGACACCT
ATGCTGGACACTTGTCATGTTCTGAAAGCAGAGATCCATGCCCTGACTTGAGTTTGCAGG[GC]CCGTCCTCGTGTTTG
TCACTCCAGGACACCTGGGCACTGTGTTGTGCTGGGACAGAGTGG
S CCCTGGCTGGGCAGAGCAGCTT
S CGCGCCGAGGCAGGTTCCGTGGGCY
S ATGACGTGGCAGACGAGGTTCCGTGGGCY
S CAGAGCCCACGGAACCTGAGCTGCTCTGCCCAGCCAGGGCT
S CAGAGCCCACGGAACCTCAGCTGCTCTGCCCAGCCAGGGCT
GCTGCAGCTGCCCTGGCTCTGGTAGGCCCTGGGGTTTCAGAAGCAGAGCCCACGGAACCT[GC]AGCTGCTCTGCCC
AGCCAGGGCTGGTGATGACGGTGGCCTGGGAGGGTGACCTCACTGTG
S GGAGGTGCGTGGGGGCAGGAGAT
S CGCGCCGAGGAGAAAAGCCTCAGGGCY
S ATGACGTGGCAGACGGAAAAGCCTCAGGGY
S GGGAGCCCTGAGGCTTTTCTTCTCCTGCCCCCACGCACCTCCAG
S GGGAGCCCTGAGGCTTTTCCTCTCCTGCCCCCACGCACCTCCAG
TCTTATCTGCCTATTTCCCGACCATCTTCTCCTATTTCCTGGGGAGCCCTGAGGCTTTTC[TC]TCTCCTGCCCCCACG
CACCTCCAGCGGTGATGAGCTCCACACCCCCACACCCATTGCAGC
S CACTGGAGGGAGTTGTTGGCATAGCTT
S CGCGCCGAGGAAGATGTACCCAAGGTACCY
S ATGACGTGGCAGACGAGATGTACCCAAGGTACCY
S AAAAGGTACCTTGGGTACATCTTAGCTATGCCAACAACTCCCTCCAGTGGT
S AAAAGGTACCTTGGGTACATCTCAGCTATGCCAACAACTCCCTCCAGTGGT
AGGCCATGAAAGAAGCTGCATAGCTGGTCTTTAAAAAAAAAAGGTACCTTGGGTACATCT[TC]AGCTATGCCAACAACT
CCCTCCAGTGGTTAATTTTGAAAATGCACCTGTAAGACAGAGCA
A CCATGCTCTGGGGCTGTGGGGTT
A ATGACGTGGCAGACGCCTGTACACGAGCAY
A CGCGCCGAGGACCTGTACACGAGCAGY
A ACAACTGCTCGTGTACAGGCACCCCACAGCCCCAGAGCATGGGG
A ACAACTGCTCGTGTACAGGTACCCCACAGCCCCAGAGCATGGGG
ATTCCCCTTCATCCTCTCACTCGCATGCCTGCTGTGCCCCATGCTCTGGGGCTGTGGGGT[GA]CCTGTACACGAGCA
GTTGTCAATGGTCTCAACACACACCTGGGCATGGCCATTCTGCCAC
A GGCTTTATGGCATAAGGTTGCTGACTGGCTGAT
A CGCGCCGAGGCAGTAATGCCGATTACAGCY
A ATGACGTGGCAGACGAGTAATGCCGATTACAGCY
A TTAGGCTGTAATCGGCATTACTGTCAGCCAGTCAGCAACCTTATGCCATAAAGCCTA
A TTAGGCTGTAATCGGCATTACTCTCAGCCAGTCAGCAACCTTATGCCATAAAGCCTA
AACACAAAGGCTGACACTGCGTGAGGTAGGCTTTATGGCATAAGGTTGCTGACTGGCTGA[CG]AGTAATGCCGATTAC
AGCCTAAAAACGGACAATACATTTCAGAGAAATTTTCTCACGATT
S CTTGACCACACAATGGATGTTTGTTGCTTGGCTGAAATTAAT
S ATGACGTGGCAGACGTTTCAGAAACTCACCAGCY
S CGCGCCGAGGATTTCAGAAACTCACCAGCY
S ATGAGCTGGTGAGTTTCTGAAACTTAATTTCAGCCAAGCAACAAACATCCATTGTGTGGTCAAGTA
S ATGAGCTGGTGAGTTTCTGAAATTTAATTTCAGCCAAGCAACAAACATCCATTGTGTGGTCAAGTA
CCCCTATGGGTACAAATGTACCAAGTTAGATGACTTTGATGAGCTGGTGAGTTTCTGAAA[CT]TTAATTTCAGCCAAGC
AACAAACATCCATTGTGTGGTCAAGTAAGTTTCAGGCATAAAGT
S CCCGGACCCCAGCTAAAGAATGCATATTCCAGAT
S CGCGCCGAGGAACTTATTTTTGCCAAAGATCTY
S ATGACGTGGCAGACGACTTATTTTTGCCAAAGATCTY
S CTTCAGATCTTTGGCAAAAATAAGTTTCTGGAATATGCATTCTTTAGCTGGGGTCCGGGGT
S CTTCAGATCTTTGGCAAAAATAAGTCTCTGGAATATGCATTCTTTAGCTGGGGTCCGGGGT
CTCTTCAACACTACCTATTCTTCCTTCAAGCTCCACTTCAGATCTTTGGCAAAAATAAGT[TC]TCTGGAATATGCATTCT
TTAGCTGGGGTCCGGGGTAGACTTCAGGATGTCTATAACCTCT
S GCTCACCCTCCCTGTGTGAAGATCCCCA
S CGCGCCGAGGTGGGACTGCGATGCY
S ATGACGTGGCAGACCGGGACTGCGATGCY
S CGCCGCATCGCAGTCCCAGGGGATCTTCACACAGGGAGGGTGAGCTG
S CGCCGCATCGCAGTCCCGGGGGATCTTCACACAGGGAGGGTGAGCTG
CCTCAGCAGGAAGGTGGCGTCAGCACTCGCAGTCCCAGCCTCACGCCGCATCGCAGTCCC[AG]GGGGATCTTCACA
CAGGGAGGGTGAGCTGGTTAAGAAGGCGGGTGATCCTCCCCCCGGAT
S AGAAACCTCAAATGAGAAATGACAGAGTCAGAAAATGGCTAATCCTCT
S CGCGCCGAGGAAAGTTTGTACTGGAAGGTCY
S ATGACGTGGCAGACCAAGTTTGTACTGGAAGGTY
S TTCAGACCTTCCAGTACAAACTTTGAGGATTAGCCATTTTCTGACTCTGTCATTTCTCATTTGAGGTTTCTGT
S TTCAGACCTTCCAGTACAAACTTGGAGGATTAGCCATTTTCTGACTCTGTCATTTCTCATTTGAGGTTTCTGT
AATATATACCAGGCCCCCCCCTTTTTTTTCTATCTTTTTTCAGACCTTCCAGTACAAACTT[TG]GAGGATTAGCCATTTTC
TGACTCTGTCATTTCTCATTTGAGGTTTCTGTAGGGTTTGGAA
A CTCCTCATCCTACTCTCATCACACACTGGATGCCT
A ATGACGTGGCAGACGTATGGATCCCTCTACAATGY
A CGCGCCGAGGATATGGATCCCTCTACAATGTY
A TAGTACATTGTAGAGGGATCCATACGGCATCCAGTGTGTGATGAGAGTAGGATGAGGAGCA
A TAGTACATTGTAGAGGGATCCATATGGCATCCAGTGTGTGATGAGAGTAGGATGAGGAGCA
GCTAGGTGCCTGCCAGTCTCCACCTGCTCCTCATCCTACTCTCATCACACACTGGATGCC[GA]TATGGATCCCTCTAC
AATGTACTACATGAAGGCACCAGTGAGTAGGGATGTTGAATTTCC
S GCAGCTGTCCCCAGACGAGCAAAGATCAT
S CGCGCCGAGGATGAGCTTCCACAGTCAY
S ATGACGTGGCAGACGTGAGCTTCCACAGTCY
S CAAGTGACTGTGGAAGCTCATTGATCTTTGCTCGTCTGGGGACAGCTGCTC
S CAAGTGACTGTGGAAGCTCACTGATCTTTGCTCGTCTGGGGACAGCTGCTC
AGCTATGCCCATCTCCCTACAACTATGCTCTGGAAACAGTCAAGTGACTGTGGAAGCTCA[TC]TGATCTTTGCTCGTCT
GGGGACAGCTGCTCAGGATGACATTCTTGAAGTCATAACAGGAC
S AAGACGGATCTGACTTCCTCAACCCTAAAACCACCT
S ATGACGTGGCAGACGTTTATATGCTGATCACGTGTY
S CGCGCCGAGGATTTATATGCTGATCACGTGTY
S CAAGACACGTGATCAGCATATAAACGGTGGTTTTAGGGTTGAGGAAGTCAGATCCGTCTTGA

FIGURE 129D

81472 T	T	S	CAAGACACGTGATCAGCATATAAATGGTGGTTTTAGGGTTGAGGAAGTCAGATCCGTCTTGA	
81472 IS	[CT]		AGCTGCGTCCAGAAGGACTGCCAGCAGTGACCTGATCAAGACACGTGATCAGCATATAAA[CT]GGTGGTTTTAGGGTT GAGGAAGTCAGATCCGTCTTGACTCCTACGGGCATGAGCCCAGGA	
81482 I		S	CCTCCACTCCTTACAGTACTTCTGCCTCTCTCTGTC	
81482 P	T	S	CGCGCCGAGGACACCTAGAAGGAAAAAGCY	
81482 P	A	S	ATGACGTGGCAGACTCACCTAGAAGGAAAAAGCY	
81482 T	T	S	ACTTGCTTTTTCCTTCTAGGTGTACAGAGAGAGGCAGAAGTACTGTAAGGAGTGGAGGAA	
81482 T	A	S	ACTTGCTTTTTCCTTCTAGGTGAACAGAGAGAGGCAGAAGTACTGTAAGGAGTGGAGGAA	
81482 IS	[TA]		GCCCCAGAGGGCTGCTGTGGTTCTGAGGAGTTAGAGGAACTTGCTTTTTCCTTCTAGGTG[TA]ACAGAGAGAGGCAG AAGTACTGTAAGGAGTGGAGGAAGAGGAAGAGGATGGTAAGTGTGT	
81488 I		A	CGGCCTGCCCGCGCCCA	
81488 P	C	A	ATGACGTGGCAGACCGCAGATCCTGAGCGY	
81488 P	T	A	CGCGCCGAGGTGCAGATCCTGAGCGY	
81488 T	C	A	TAGGCGCTCAGGATCTGCGGGGCGCGGGCAGGCCGGG	
81488 T	T	A	TAGGCGCTCAGGATCTGCAGGGCGCGGGCAGGCCGGG	
81488 IS	[CT]		CCAGGCGCTCCCTCCGGCGCCGCCTGCCTCGCAGCTTTTTCCCCCGGCCTGCCCGCGCCC[CT]GCAGATCCTGAGC GCCTACCCCGGGTGGCAACGCCTCTCAGAGAGCGTCCCGGCCCGCCT	
81490 I		S	GTCCAGCCGCCGCAGGGAATGACT	
81490 P	C	S	ATGACGTGGCAGACGCCGGTGCTCCTACY	
81490 P	T	S	CGCGCCGAGGACCGGTGCTCCTACY	
81490 T	C	S	GGCTGTAGGAGCACCGGCGTCATTCCCTGCGGCGGCTGGACCT	
81490 T	T	S	GGCTGTAGGAGCACCGGTGTCATTCCCTGCGGCGGCTGGACCT	
81490 IS	[CT]		CGCAGGGCCGGCTGTGGGGCTCGCCTTCCCCGCCCGGAGCCGTGGCTGTAGGAGCACCGG[CT]GTCATTCCCTGC GGCGGCTGGACCTGAGGGAGAGAAGACAGCGCTGGCGGAGTCCGGGGC	
81510 I		S	GCGCTTCCTCCCAGACACCCTCCCA	
81510 P	G	S	ATGACGTGGCAGACCGCAGCTGAGTCCGY	
81510 P	A	S	CGCGCCGAGGTGCAGCTGAGTCCGY	
81510 T	G	S	AGGGCGGACTCAGCTGCGGGGAGGGTGTCTGGGAGGAAGCGCTT	
81510 T	A	S	AGGGCGGACTCAGCTGCAGGGAGGGTGTCTGGGAGGAAGCGCTT	
81510 IS	[GA]		CCCACCATGGCGGAGACCAAGCTCCAGCTGTTTGTCAAGGTGCAGGGCGGACTCAGCTGC[GA]GGGAGGGTGTCTG GGAGGAAGCGCTTTTCTGGGCTTTGCTTTCTGTGGCAGGCTGTGGGG	
81513 I		A	ACCAGCATTCTGCCTGCAGAGCCAGAT	
81513 P	G	A	ATGACGTGGCAGACGGCTGAGCAGAAGAAGAY	
81513 P	A	A	CGCGCCGAGGAGCTGAGCAGAAGAAGAY	
81513 T	G	A	GTATTCTTCTTCTGCTCAGCCTCTGGCTCTGCAGGCAGAATGCTGGTGA	
81513 T	A	A	GTATTCTTCTTCTGCTCAGCTTCTGGCTCTGCAGGCAGAATGCTGGTGA	
81513 IS	[GA]		GGAGGAGCAGATTGAAGCTCTTCTCCACACCGTCACCAGCATTCTGCCTGCAGAGCCAGA[GA]GCTGAGCAGAAGAA GAATACAAACAGCAATGTGGCAATGGACGAAGAGGACCCAGCATAG	CGRP-RCP
81546 I		S	AGTTGGAAAAACAAGTCTGTTGGTGTGAAACTCTTCTACTCCTT	
81546 P	C	S	ATGACGTGGCAGACGTAGTAATCATTGGCAAGAGCY	
81546 P	T	S	CGCGCCGAGGATAGTAATCATTGGCAAGAGCY	
81546 T	C	S	CGCGGCTCTTGCCAATGATTACTACAGGAGTAGAAGAGTTTCACACCAACAGACTTGTTTTTCCAACTGG	
81546 T	T	S	CGCGGCTCTTGCCAATGATTACTATAGGAGTAGAAGAGTTTCACACCAACAGACTTGTTTTTCCAACTGG	
81546 IS	[CT]		CTCTTGGCCCATTCCGGGATCCTTTGCAATACATAACGCGGCTCTTGCCAATGATTACTA[CT]AGGAGTAGAAGAGTT TCACACCAACAGACTTGTTTTTCCAACTGGGCTTTCACCCACAGG	
81551 I		S	GGGAAGGTTTGTGGGGGCATCTGACCAGA	
81551 P	A	S	CGCGCCGAGGTCACAAGTCCCGACAGY	
81551 P	G	S	ATGACGTGGCAGACCCACAAGTCCCGACAY	
81551 T	A	S	CTATCTGTCGGGACTTGTGACTGGTCAGATGCCCCCACAAACCTTCCCCT	
81551 T	G	S	CTATCTGTCGGGACTTGTGGCTGGTCAGATGCCCCCACAAACCTTCCCCT	
81551 IS	[AG]		ACAAACAACAATGATCATGAGAGCCATTTCTCAAGCACTTCCTATCTGTCGGGACTTGTG[AG]CTGGTCAGATGCCCC CACAAACCTTCCCCTCGCTTGAGGTTCAGAGAGGGGAAGCCCCTT	
81557 I		A	CCTGGGACTTGTGACTGCCTGACCCTCT	
81557 P	G	A	ATGACGTGGCAGACGGCCTCTGAAGGGAAY	
81557 P	A	A	CGCGCCGAGGAGCCTCTGAAGGGAAGY	
81557 T	G	A	AATTCTTCCCTTCAGAGGCCGAGGGTCAGGCAGTCACAAGTCCCAGGTG	
81557 T	A	A	AATTCTTCCCTTCAGAGGCTGAGGGTCAGGCAGTCACAAGTCCCAGGTG	
81557 IS	[GA]		GCATCTGGTTCCTGTTGGGGATGCTCAGGACCACCTGGGACTTGTGACTGCCTGACCCTC[GA]GCCTCTGAAGGGAA GAATTCTGCCCAGTGGTGACCACCATGGGGGAAGGGATGCGGGGTT	
81582 I		A	TGTTACTTCAGGGCAATGAGGGGACTCCTCA	
81582 P	T	A	CGCGCCGAGGTGGGAAGAGACCAAAACAY	
81582 P	C	A	ATGACGTGGCAGACCGGGAAGAGACCAAAACY	
81582 T	T	A	GGAGTGTTTTGGTCTCTTCCCAGAGGAGTCCCCCTCATTGCCCTGAAGTAACACT	
81582 T	C	A	GGAGTGTTTTGGTCTCTTCCCGGAGGAGTCCCCCTCATTGCCCTGAAGTAACACT	
81582 IS	[TC]		TCAGTCACCTGTTGATGGAGAGAAGTGAGTGTTACTTCAGGGCAATGAGGGGGACTCCTC[TC]GGGAAGAGACCAAA ACACTCCATCCTGCATCTGTTGCTGTCCACCCTGACTGCCCAACCC	
81583 I		S	CACTTGTTTCCCACCCGCCACCCAGA	
81583 P	A	S	CGCGCCGAGGTTCTAACTCACTAATTGCCCY	
81583 P	G	S	ATGACGTGGCAGACCTCTAACTCACTAATTGCCCY	
81583 T	A	S	GGGGGGGCAATTAGTGAGTTAGAACTGGGTGGCGGGTGGGAAACAAGTGGG	
81583 T	G	S	GGGGGGGCAATTAGTGAGTTAGAGCTGGGTGGCGGGTGGGAAACAAGTGGG	
81583 IS	[AG]		ATTGTAATTTCTTTTGGATTTTTTTTTTTTTTTTTGGAGGGGGGGGCAATTAGTGAGTTAGA[AG]CTGGGTGGCGGGTGG GAAACAAGTGGGGGAGGGCAGAGACTTCCTGGGAGGTGTAAAACA	
81588 I		A	GAAATAGGGTGTTTTCCCTTTTTGTGCACACCTAA	
81588 P	T	A	CGCGCCGAGGTATTACCTTAAGAAATTTCCTTCCAY	
81588 P	C	A	ATGACGTGGCAGACCATTACCTTAAGAAATTTCCTTCCY	
81588 T	T	A	TCTATGGAAGGAAATTTCTTAAGGTAATATAGGTGTGCACAAAAAGGGAAAACACCCTATTTCAT	
81588 T	C	A	TCTATGGAAGGAAATTTCTTAAGGTAATGTAGGTGTGCACAAAAAGGGAAAACACCCTATTTCAT	
81588 IS	[TC]		CTATAATCTTTAACAAATTGAAAAATGAAATAGGGTGTTTTCCCTTTTTGTGCACACCTA[TC]ATTACCTTAAGAAATTTC CTTCCATAGACAGCTGCCTCAAAGGGAAATCCTCTTTAAACC	
81589 I		S	GCGACCAGGGCTGAGGCGCACT	
81589 P	T	S	CGCGCCGAGGAGAAGGGCTCCGGY	
81589 P	C	S	ATGACGTGGCAGACGGAAGGGCTCCGGY	
81589 T	T	S	TCTCCCGGAGCCCTTCTGTGCGCCTCAGCCCTGGTCGCTT	
81589 T	C	S	TCTCCCGGAGCCCTTCCGTGCGCCTCAGCCCTGGTCGCTT	
81589 IS	[TC]		CAGCAGCCCAGGTACCCACTCTGTGCCCGCGCTCCTACGGGGCCTCTCCCGGAGCCCTTC[TC]GTGCGCCTCAGCC CTGGTCGCTTCTGGCGATCGCGGTGTTTGCCCAGCAGGGGTGTGCAC	
81606 I		S	GCGCTGACTTGATGCGGCCAGGTTTCA	
81606 P	G	S	ATGACGTGGCAGACCGGGACCAGGAGGY	
81606 P	A	S	CGCGCCGAGGTGGGACCAGGAGGTY	
81606 T	G	S	CCCAACCTCCTGGTCCCGGAAACCTGGCCGCATCAAGTCAGCGCTT	
81606 T	A	S	CCCAACCTCCTGGTCCCAGAAACCTGGCCGCATCAAGTCAGCGCTT	
81606 IS	[GA]		TCACATGACCCAGACCCACAGGGCAAAAAGTGCGTCGTCGTGTCCCAACCTCCTGGTCCC[GA]GAAACCTGGCCGCA TCAAGTCAGCGCTTCCCATGCTGGAAGAAGCAAGCAGCCCCAGGGT	
81611 I		S	TGCATGATAGTGATGGGGAGTGAGACAAAACAA	
81611 P	G	S	ATGACGTGGCAGACCGGGTATAATGGAATGTAGCY	
81611 P	A	S	CGCGCCGAGGTGGGTATAATGGAATGTAGCY	

FIGURE 129D

81611 T	G		S	TCCAGCTACATTCCATTATACCCGTGTTTTGTCTCACTCCCCATCACTATCATGCATA
81611 T	A		S	TCCAGCTACATTCCATTATACCCATGTTTTGTCTCACTCCCCATCACTATCATGCATA
81611 IS	[GA]			AAACAAAGCTGTTTGAGGTAATAGCGTTTGTTTTTAATTCCAGCTACATTCCATTATACCC[GA]TGTTTTGTCTCACTCCC CATCACTATCATGCATACTTAATAATGTGCTTAATGCATATTT
81636 I			S	GGCTGGACCAGGCACCCTTGCCT
81636 P	T		S	CGCGCCGAGGAGGGCACTTGGCGY
81636 P	C		S	ATGACGTGGCAGACGGGGCACTTGGCGY
81636 T	T		S	TGCCCGCCAAGTGCCCTGGCAAGGGTGCCTGGTCCAGCCCA
81636 T	C		S	TGCCCGCCAAGTGCCCCGGCAAGGGTGCCTGGTCCAGCCCA
81636 IS	[TC]			GGAGACCGCCCTGTACTGGAAAATGCTGGGCGACCCCAGCTGGCTGCCCGCCAAGTGCCC[TC]GGCAAGGGTGCCT GGTCCAGCCCATGGAAGTGGCTGTTTGGGGCGACTGCTGTTGCCTTG
81730 I			S	GGAAGGGCACCACTCCTGCAGCAGA
81730 P	G		S	ATGACGTGGCAGACCGTTCCACGTTTTAACTGTY
81730 P	A		S	CGCGCCGAGGTGTTCCACGTTTTAACTGTY
81730 T	G		S	ATGAACAGTTAAAACGTGGAACGCTGCTGCAGGAGTGGTGCCCTTCCTA
81730 T	A		S	ATGAACAGTTAAAACGTGGAACACTGCTGCAGGAGTGGTGCCCTTCCTA
81730 IS	[GA]			ACTTTGCTAAGAAAAGGTTTTTGTATATGAAGTTAGATATGAACAGTTAAAACGTGGAAC[GA]CTGCTGCAGGAGTGGT GCCCTTCCTATAAAAGGAGGCGTGTGAAGAGTGGGCCTACTGGG
81733 I			S	GCAGCTTATCTCTTGGAAGTGGCACAGAGACTTCACA
81733 P	G		S	ATGACGTGGCAGACCTACCTTGCTTAAAAATATTGACAY
81733 P	A		S	CGCGCCGAGGTTACCTTGCTTAAAAATATTGACAAY
81733 T	G		S	CCTATTGTCAATATTTTTAAGCAAGGTAGGTGAAGTCTCTGTGCCACTTCCAAGAGATAAGCTGCAT
81733 T	A		S	CCTATTGTCAATATTTTTAAGCAAGGTAAGTGAAGTCTCTGTGCCACTTCCAAGAGATAAGCTGCAT
81733 IS	[GA]			TCCTAGGAAACCCATGAGATTAGCAGATGATGCCTATTGTCAATATTTTTAAGCAAGGTA[GA]GTGAAGTCTCTGTGCC ACTTCCAAGAGATAAGCTGCATATCTCTAACAGGGAAGAAAGCA
81738 I			S	CGAAGCCTCGTGATTCGTCGGCCGT
81738 P	T		S	CGCGCCGAGGACCCAGCCCAACTCY
81738 P	C		S	ATGACGTGGCAGACGCCCAGCCCAACTY
81738 T	T		S	AGCTGAGTTGGGCTGGGTCGGCCGACGAATCACGAGGCTTCGCA
81738 T	C		S	AGCTGAGTTGGGCTGGGCCGGCCGACGAATCACGAGGCTTCGCA
81738 IS	[TC]			CAGCCAATGAGGTGATAGAAACGCAAAGCAGCGACCAATGACTAGCTGAGTTGGGCTGGG[TC]CGGCCGACGAATCA CGAGGCTTCGCACCCGGATATGGTTATGGGCTCGGAAATCTAGTTC
81744 I			S	CGCAAAAGCCCAGTAGCAAGGCTGGACA
81744 P	A		S	CGCGCCGAGGTTCAAATGTAGATCAAGTACAATCY
81744 P	G		S	ATGACGTGGCAGACCTCAAATGTAGATCAAGTACAATCY
81744 T	A		S	CATGGATTGTACTTGATCTACATTTGAAGTCCAGCCTTGCTACTGGGCTTTTGCGTA
81744 T	G		S	CATGGATTGTACTTGATCTACATTTGAGGTCCAGCCTTGCTACTGGGCTTTTGCGTA
81744 IS	[AG]			TCCTCTGACTACACTTCCAGGTATTCTAGTAATCATGGATTGTACTTGATCTACATTTGA[AG]GTCCAGCCTTGCTACT GGGCTTTTGCGTATGCTGAGTCTCTAAACCTTTAAGTATTTTGT
81764 I		A		GAGACCCACGGGGGAGAAAAAAGGACCATCC
81764 P	T	A		CGCGCCGAGGTAATACAAGGACTGAGGAATGY
81764 P	G	A		ATGACGTGGCAGACGAATACAAGGACTGAGGAATGY
81764 T	T	A		GTGGCATTCCTCAGTCCTTGTATTAGATGGTCCTTTTTTCTCCCCCGTGGGTCTCAA
81764 T	G	A		GTGGCATTCCTCAGTCCTTGTATTCGATGGTCCTTTTTTCTCCCCCGTGGGTCTCAA
81764 IS	[TG]			CACACACAAGAAAAGCAGTCTCATGGGATTGAGACCCACGGGGGAGAAAAAAGGACCATC[TG]AATACAAGGACTGA GGAATGCCACAATGACATACACCTGCTGTAAGCTCAGGTCCTGCCC
81799 I		A		AGCTATATTTTATTTTTAATTAAGATTTTTGGAGGAAAGTTATTGTATAAACTAAGGGGGA
81799 P	T	A		CGCGCCGAGGTTGGCATATATGTTAGATTTAACATTY
81799 P	C	A		ATGACGTGGCAGACCTGGCATATATGTTAGATTTAACATY
81799 T	T	A		TTATAATGTTAAATCTAACATATATGCCAACCCCCTTAGTTTATACAATAACTTTCCTCCAAAAATCTTAATTAAAAATAA AATATAGCT
81799 T	C	A		TTATAATGTTAAATCTAACATATATGCCAGCCCCCTTAGTTTATACAATAACTTTCCTCCAAAAATCTTAATTAAAAATAA AATATAGCT
81799 IS	[TC]			AGCTATATTTTATTTTTAATTAAGATTTTTGGAGGAAAGTTATTGTATAAACTAAGGGGG[TC]TGGCATATATGTTAGAT TTAACATTATAATGACAGTCATTTGTAAAACATTCCCTATAGT
81803 I		A		GCCCTTTTCTATTAGGGAACCAATAAGGCATTAATAGCCAAGCT
81803 P	A	A		CGCGCCGAGGATTTACTTTAAAAAGTCGCCATTY
81803 P	G	A		ATGACGTGGCAGACGTTTACTTTAAAAAGTCGCCATY
81803 T	A	A		CAACAATGGCGACTTTTTAAAGTAAATGCTTGGCTATTAATGCCTTATTGGTTCCCTAATAGAAAAGGGCAA
81803 T	G	A		CAACAATGGCGACTTTTTAAAGTAAACGCTTGGCTATTAATGCCTTATTGGTTCCCTAATAGAAAAGGGCAA
81803 IS	[AG]			GGAATCATATGAGCATTGCCCTTTTCTATTAGGGAACCAATAAGGCATTAATAGCCAAGC[AG]TTTACTTTAAAAAGTC GCCATTGTTGAACCCATATTAGTGTATTTTGGGGGAACTTCATG
81807 I		A		GGGTAGAAATGGATGATTATTTGGCCGTAGAGTTGTTA
81807 P	T	A		CGCGCCGAGGTAACCATTACTGTGTTTTTCTGY
81807 P	C	A		ATGACGTGGCAGACCAACCATTACTGTGTTTTTCTGY
81807 T	T	A		AAATCAGAAAAACACAGTAATGGTTAAACAACTCTACGGCCAAATAATCATCCATTTCTACCCTC
81807 T	C	A		AAATCAGAAAAACACAGTAATGGTTGAACAACTCTACGGCCAAATAATCATCCATTTCTACCCTC
81807 IS	[TC]			ATTTGTTATTTGTGACTATAAGAGGGTAGAAATGGATGATTATTTGGCCGTAGAGTTGTT[TC]AACCATTACTGTGTTTT TCTGATTTTTCTATGTCATCCTTTTTTTTGTAGGGCCCAGTAA
81814 I		A		GGTTTACCCTTGCCCTTGAATCTCCATGGTAACCAA
81814 P	T	A		CGCGCCGAGGTTGTAGTCTGTGTGTTGTAATY
81814 P	C	A		ATGACGTGGCAGACCTGTAGTCTGTGTGTTGTAATY
81814 T	T	A		GTTGATTACAACACACAGACTACAATGGTTACCATGGAGATTCAAGGGCAAGGGTAAACCTG
81814 T	C	A		GTTGATTACAACACACAGACTACAGTGGTTACCATGGAGATTCAAGGGCAAGGGTAAACCTG
81814 IS	[TC]			GATGTTTCCTTTGAAATAGTTCTCAGGTTTACCCTTGCCCTTGAATCTCCATGGTAACCA[TC]TGTAGTCTGTGTGTTG TAATCAACTGGATTACTCAAACAGCAGTCCAGCTGGCTGCTCCA
81845 I		S		TCACACATCTTCTCCTAGAGCCCAAGCACACCA
81845 P	G	S		ATGACGTGGCAGACCGAATCACCACAGAACAGY
81845 P	A	S		CGCGCCGAGGTGAATCACCACAGAACAGY
81845 T	G	S		TGTCCTGTTCTGTGGTGATTCGGGTGTGCTTGGGCTCTAGGAGAAGATGTGTGAAG
81845 T	A	S		TGTCCTGTTCTGTGGTGATTCAGGTGTGCTTGGGCTCTAGGAGAAGATGTGTGAAG
81845 IS	[GA]			CACCCCCACCCCATTTCTGCTTTCTGGAACCCCCGATCCTGTCCTGTTCTGTGGTGATTC[GA]GGTGTGCTTGGGCTC TAGGAGAAGATGTGTGAAGAATCGGCATCCTTTGACCTGACTCCC
81847 I		A		CCCTCAGGCCCGAGCCTGCCC
81847 P	T	A		CGCGCCGAGGTTCTTCTCCTCAGTTCCCY
81847 P	G	A		ATGACGTGGCAGACGTCTTCTCCTCAGTTCCCY
81847 T	T	A		CTTTGGGAACTGAGGAGAAGAAGGCAGGCTCGGGCCTGAGGGGG
81847 T	G	A		CTTTGGGAACTGAGGAGAAGACGGCAGGCTCGGGCCTGAGGGGG
81847 IS	[TG]			TTTTCTTCTCGGCAGCTACATCTTTGACCAGTGTCGTCCCCCCTCAGGCCCGAGCCTGCC[TG]TCTTCTCCTCAGTTC CCAAAGCTGCAGTCTGGTCCCCCCGCCAGGCTCGAGCCTGCCTTC
81852 I		A		CTTTACCTGAATTTGTTGTTGAGCTCTTTCAGCATGAAGAGCT
81852 P	G	A		ATGACGTGGCAGACGATTTCTTCAGTTTCTAGAAAGAGY
81852 P	A	A		CGCGCCGAGGAATTTCTTCAGTTTCTAGAAAGAGY
81852 T	G	A		CCCTCTCTTTCTAGAAACTGAAGAAATCGCTCTTCATGCTGAAAGAGCTCAACAACAAATTCAGGTAAAGCT

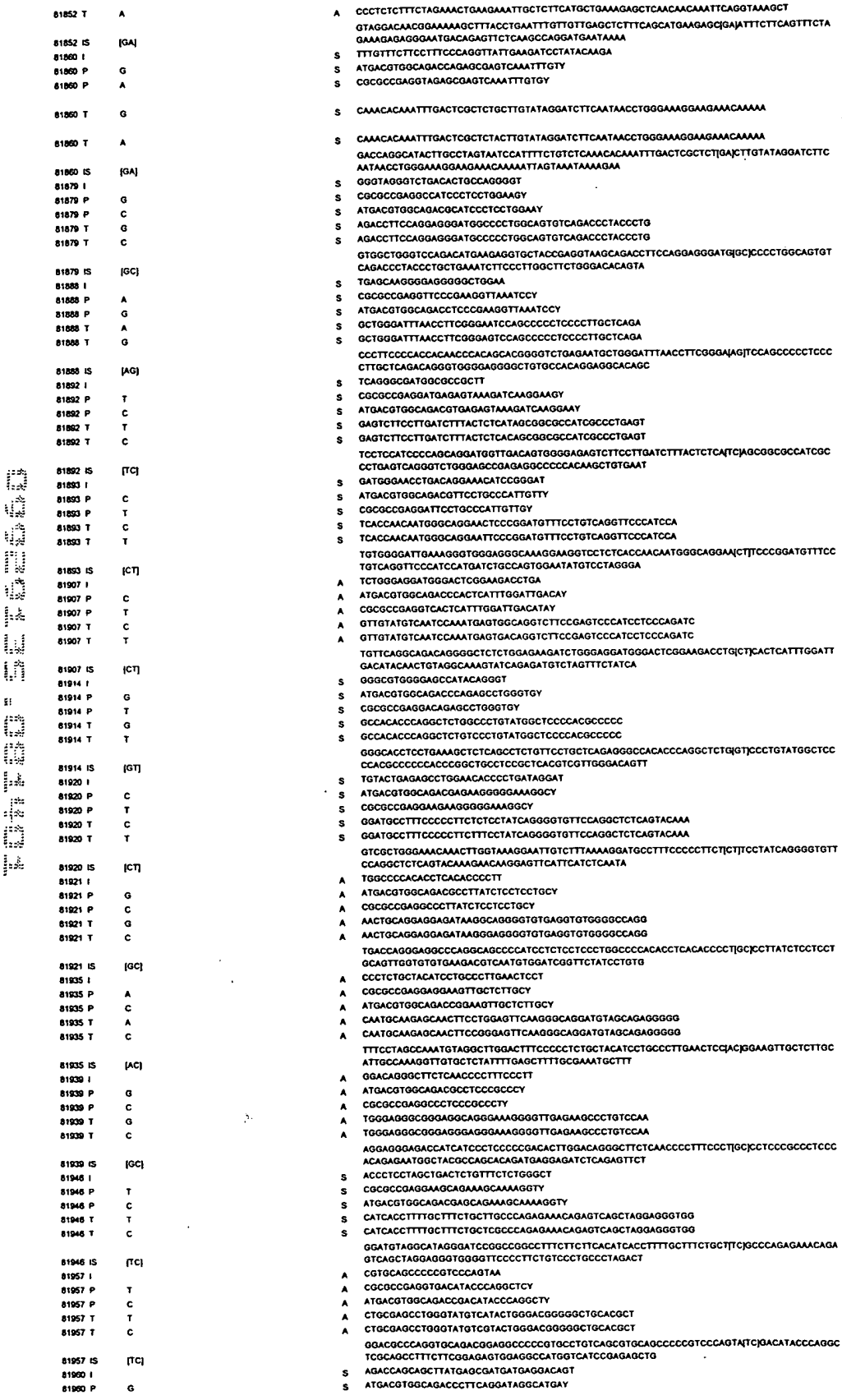

81852 T A
A CCCTCTCTTTCTAGAAACTGAAGAAATTGCTCTTCATGCTGAAAGAGCTCAACAACAAATTCAGGTAAAGCT
GTAGGACAACGGAAAAAAGCTTTACCTGAATTTGTTGTTGAGCTCTTTCAGCATGAAGAGC[GA]ATTTCTTCAGTTTCTA
81852 IS [GA] GAAAGAGAGGGAATGACAGAGTTCTCAAGCCAGGATGAATAAAA
81860 I S TTTGTTTCTTCCTTTCCCAGGTTATTGAAGATCCTATACAAGA
81860 P G S ATGACGTGGCAGACCAGAGCGAGTCAAATTTGTGY
81860 P A S CGCGCCGAGGTAGAGCGAGTCAAATTTGTGY
81860 T G S CAAACACAAATTTGACTCGCTCTGCTTGTATAGGATCTTCAATAACCTGGGAAAGGAAGAAACAAAAA
81860 T A S CAAACACAAATTTGACTCGCTCTACTTGTATAGGATCTTCAATAACCTGGGAAAGGAAGAAACAAAAA
GACCAGGCATACTTGCCTAGTAATCCATTTTCTGTCTCAAACACAAATTTGACTCGCTCT[GA]CTTGTATAGGATCTTC
81860 IS [GA] AATAACCTGGGAAAGGAAGAAACAAAAATTAGTAAATAAAAGAA
81879 I S GGGTAGGGTCTGACACTGCCAGGGGT
81879 P G S CGCGCCGAGGCCATCCCTCCTGGAAGY
81879 P C S ATGACGTGGCAGACGCATCCCTCCTGGAAY
81879 T G S AGACCTTCCAGGAGGGATGGCCCCTGGCAGTGTCAGACCCTACCCTG
81879 T C S AGACCTTCCAGGAGGGATGCCCCCTGGCAGTGTCAGACCCTACCCTG
GTGGCTGGGTCCAGACATGAAGAGGTGCTACCGAGGTAAGCAGACCTTCCAGGAGGGATG[GC]CCCCTGGCAGTGT
81879 IS [GC] CAGACCCTACCCTGCTGAAATCTTCCCTTGGCTTCTGGGACACAGTA
81888 I S TGAGCAAGGGGAGGGGGCTGGAA
81888 P A S CGCGCCGAGGTTCCCGAAGGTTAAATCCY
81888 P G S ATGACGTGGCAGACCTCCCGAAGGTTAAATCCY
81888 T A S GCTGGGATTTAACCTTCGGGAATCCAGCCCCCTCCCCTTGCTCAGA
81888 T G S GCTGGGATTTAACCTTCGGGAGTCCAGCCCCCTCCCCTTGCTCAGA
CCCTTCCCCACCACAACCCACAGCACGGGGTCTGAGAATGCTGGGATTTAACCTTCGGGA[AG]TCCAGCCCCCTCCC
81888 IS [AG] CTTGCTCAGACAGGGTGGGGAGGGGCTGTGCCACAGGAGGCACAGC
81892 I S TCAGGGCGATGGCGCCGCTT
81892 P T S CGCGCCGAGGATGAGAGTAAAGATCAAGGAAGY
81892 P C S ATGACGTGGCAGACGTGAGAGTAAAGATCAAGGAAY
81892 T T S GAGTCTTCCTTGATCTTTACTCTCATAGCGGCGCCATCGCCCTGAGT
81892 T C S GAGTCTTCCTTGATCTTTACTCTCACAGCGGCGCCATCGCCCTGAGT
TCCTCCATCCCCAGCAGGATGGTTGACAGTGGGGAGAGTCTTCCTTGATCTTTACTCTCA[TC]AGCGGCGCCATCGC
81892 IS [TC] CCTGAGTCAGGGTCTGGGAGCCGAGAGGCCCCCACAAGCTGTGAAT
81893 I S GATGGGAACCTGACAGGAAACATCCGGGAT
81893 P C S ATGACGTGGCAGACGTTCCTGCCCATTGTTY
81893 P T S CGCGCCGAGGATTCCTGCCCATTGTTGY
81893 T C S TCACCAACAATGGGCAGGAACTCCCGGATGTTTCCTGTCAGGTTCCCATCCA
81893 T T S TCACCAACAATGGGCAGGAATTCCCGGATGTTTCCTGTCAGGTTCCCATCCA
TGTGGGGATTGAAAGGGTGGGAGGGCAAAGGAAGGTCCTCTCACCAACAATGGGCAGGAA[CT]TCCCGGATGTTTCC
81893 IS [CT] TGTCAGGTTCCCATCCATGATCTGCCAGTGGAATATGTCCTAGGGA
81907 I A TCTGGGAGGATGGGACTCGGAAGACCTGA
81907 P C A ATGACGTGGCAGACCCACTCATTTGGATTGACAY
81907 P T A CGCGCCGAGGTCACTCATTTGGATTGACATAY
81907 T C A GTTGTATGTCAATCCAAATGAGTGGCAGGTCTTCCGAGTCCCATCCTCCCAGATC
81907 T T A GTTGTATGTCAATCCAAATGAGTGACAGGTCTTCCGAGTCCCATCCTCCCAGATC
TGTTCAGGCAGACAGGGGCTCTCTGGAGAAGATCTGGGAGGATGGGACTCGGAAGACCTG[CT]CACTCATTTGGATT
81907 IS [CT] GACATACAACTGTAGGCAAAGTATCAGAGATGTCTAGTTTCTATCA
81914 I S GGGCGTGGGGAGCCATACAGGGT
81914 P G S ATGACGTGGCAGACCCAGAGCCTGGGTGY
81914 P T S CGCGCCGAGGACAGAGCCTGGGTGY
81914 T G S GCCACACCCAGGCTCTGGCCCTGTATGGCTCCCCACGCCCCC
81914 T T S GCCACACCCAGGCTCTGTCCCTGTATGGCTCCCCACGCCCCC
GGGCACCTCCTGAAAGCTCTCAGCCTCTGTTCCTGCTCAGAGGGCCACACCCAGGCTCTG[GT]CCCTGTATGGCTCC
81914 IS [GT] CCACGCCCCCCACCCGGCTGCCTCCGCTCACGTCGTTGGGACAGTT
81920 I S TGTACTGAGAGCCTGGAACACCCCTGATAGGAT
81920 P C S ATGACGTGGCAGACGAGAAGGGGGAAAGGCY
81920 P T S CGCGCCGAGGAAGAAGGGGGAAAGGCY
81920 T C S GGATGCCTTTCCCCCTTCTCTCCTATCAGGGGTGTTCCAGGCTCTCAGTACAAA
81920 T T S GGATGCCTTTCCCCCTTCTTTCCTATCAGGGGTGTTCCAGGCTCTCAGTACAAA
GTCGCTGGGAAACAAACTTGGTAAAGGAATTGTCTTTAAAAGGATGCCTTTCCCCCTTCT[CT]TCCTATCAGGGGTGTT
81920 IS [CT] CCAGGCTCTCAGTACAAAGAACAAGGAGTTCATTCATCTCAATA
81921 I A TGGCCCCACACCTCACACCCCTT
81921 P G A ATGACGTGGCAGACGCCTTATCTCCTCCTGCY
81921 P C A CGCGCCGAGGCCCTTATCTCCTCCTGCY
81921 T G A AACTGCAGGAGGAGATAAGGCAGGGGTGTGAGGTGTGGGGCCAGG
81921 T C A AACTGCAGGAGGAGATAAGGGAGGGGTGTGAGGTGTGGGGCCAGG
TGACCAGGGAGGCCCAGGCAGCCCCATCCTCTCCTCCCTGGCCCCACACCTCACACCCCT[GC]CCTTATCTCCTCCT
81921 IS [GC] GCAGTTGGTGTGTGAAGACGTCAATGTGGATCGGTTCTATCCTGTG
81935 I A CCCTCTGCTACATCCTGCCCTTGAACTCCT
81935 P A A CGCGCCGAGGAGGAAGTTGCTCTTGCY
81935 P C A ATGACGTGGCAGACCGGAAGTTGCTCTTGCY
81935 T A A CAATGCAAGAGCAACTTCCTGGAGTTCAAGGGCAGGATGTAGCAGAGGGGG
81935 T C A CAATGCAAGAGCAACTTCCGGGAGTTCAAGGGCAGGATGTAGCAGAGGGGG
TTTCCTAGCCAAATGTAGGCTTGGACTTTCCCCCTCTGCTACATCCTGCCCTTGAACTCC[AC]GGAAGTTGCTCTTGC
81935 IS [AC] ATTGCCAAAGGTTGTGCTCTATTTTGAGCTTTTGCGAAATGCTTT
81939 I A GGACAGGGCTTCTCAACCCCTTTCCCTT
81939 P G A ATGACGTGGCAGACGCCTCCCGCCCY
81939 P C A CGCGCCGAGGCCCTCCCGCCCTY
81939 T G A TGGGAGGGCGGGAGGCAGGGAAAGGGGTTGAGAAGCCCTGTCCAA
81939 T C A TGGGAGGGCGGGAGGGAGGGAAAGGGGTTGAGAAGCCCTGTCCAA
AGGAGGGAGACCATCATCCCTCCCCCGACACTTGGACAGGGCTTCTCAACCCCTTTCCCT[GC]CCTCCCGCCCTCCC
81939 IS [GC] ACAGAGAATGGCTACGCCAGCACAGATGAGGAGATCTCAGAGTTCT
81946 I S ACCCTCCTAGCTGACTCTGTTTCTCTGGGCT
81946 P T S CGCGCCGAGGAAGCAGAAAGCAAAAGGTY
81946 P C S ATGACGTGGCAGACGAGCAGAAAGCAAAAGGTY
81946 T T S CATCACCTTTTGCTTTCTGCTTGCCCAGAGAAACAGAGTCAGCTAGGAGGGTGG
81946 T C S CATCACCTTTTGCTTTCTGCTCGCCCAGAGAAACAGAGTCAGCTAGGAGGGTGG
GGATGTAGGCATAGGGATCCGGCCGGCCTTTCTTCTTCACATCACCTTTTGCTTTCTGCT[TC]GCCCAGAGAAACAGA
81946 IS [TC] GTCAGCTAGGAGGGTGGGGTTCCCCTTCTGTCCCTGCCCTAGACT
81957 I A CGTGCAGCCCCCGTCCCAGTAA
81957 P T A CGCGCCGAGGTGACATACCCAGGCTCY
81957 P C A ATGACGTGGCAGACCGACATACCCAGGCTY
81957 T T A CTGCGAGCCTGGGTATGTCATACTGGGACGGGGGCTGCACGCT
81957 T C A CTGCGAGCCTGGGTATGTCGTACTGGGACGGGGGCTGCACGCT
GGACGCCCAGGTGCAGACGGAGGCCCCCGTGCCTGTCAGCGTGCAGCCCCCGTCCCAGTA[TC]GACATACCCAGGC
81957 IS [TC] TCGCAGCCTTTCTTCGGAGAGTGGAGGCCATGGTCATCCGAGAGCTG
81960 I S AGACCAGCAGCTTATGAGCGATGATGAGGACAGT
81960 P G S ATGACGTGGCAGACCCTTCAGGATAGGCATGAY

FIGURE 129D

81960 P	T	S	CGCGCCGAGGACTTCAGGATAGGCATGAY		
81960 T	G	S	AGCTTCATGCCTATCCTGAAGGCTGTCCTCATCATCGCTCATAAGCTGCTGGTCTAA		
81960 T	T	S	AGCTTCATGCCTATCCTGAAGTCTGTCCTCATCATCGCTCATAAGCTGCTGGTCTAA		
81960 IS	[GT]		GCCCAGGTGGCGGGCTGTAGCAGCTTCAGCGAGGTGTCCAGCTTCATGCCTATCCTGAAG[GT]CTGTCCTCATCATC GCTCATAAGCTGCTGGTCTAAACCAGGCAGCCTCTCTTGCTAGGAG		SEC31B-1
81975 I		A	CATCAGATCTGTTCCAAGACTTTTTACATTCTCCAAATCGTCTTTCATTGAT		
81975 P	A	A	CGCGCCGAGGATAAGACAGGTCCATAAGGTY		
81975 P	G	A	ATGACGTGGCAGACGTAAGACAGGTCCATAAGGY		
81975 T	A	A	TACTACCTTATGGACCTGTCTTATTCAATGAAAGACGATTTGGAGAATGTAAAAAGTCTTGGAACAGATCTGATGAA		
81975 T	G	A	TACTACCTTATGGACCTGTCTTACTCAATGAAAGACGATTTGGAGAATGTAAAAAGTCTTGGAACAGATCTGATGAA		
81975 IS	[AG]		CATTTCATTCATCAGATCTGTTCCAAGACTTTTTACATTCTCCAAATCGTCTTTCATTGA[AG]TAAGACAGGTCCATAAG GTAGTAGAGGTCAATGGGATAGTCTTCAGCTCTCTTGAATTTT		ITGB1
81991 I		S	GCCTTCCTTCACTGAGCCACTGCTCCTT		
81991 P	C	S	ATGACGTGGCAGACGTCACTCAGTTAGGTATGGAY		
81991 P	T	S	CGCGCCGAGGATCACTCAGTTAGGTATGGAY		
81991 T	C	S	GAAATCCATACCTAACTGAGTGACAGGAGCAGTGGCTCAGTGAAGGAAGGCAC		
81991 T	T	S	GAAATCCATACCTAACTGAGTGATAGGAGCAGTGGCTCAGTGAAGGAAGGCAC		
81991 IS	[CT]		AGGTGGCCCGGAGATTCCCTAGAATAATCCTGCGATTGAAATCCATACCTAACTGAGTGA[CT]AGGAGCAGTGGCTCA GTGAAGGAAGGCACTAAGGTAGAGGGCCTAGGCCTCCCCAGGTGC		
81998 I		A	GGCCCAAAACAGATTTGTTAACCTATCTGGGGT		
81998 P	A	A	CGCGCCGAGGAGGAGAAAAAAGCCAGAACY		
81998 P	G	A	ATGACGTGGCAGACGGGAGAAAAAAGCCAGAAY		
81998 T	A	A	TAAAGTTCTGGCTTTTTTCTCCTCCCCAGATAGGTTAACAAATCTGTTTTGGGCCTA		
81998 T	G	A	TAAAGTTCTGGCTTTTTTCTCCCCCCCAGATAGGTTAACAAATCTGTTTTGGGCCTA		
81998 IS	[AG]		GAGTTTGATGAGGAGAAACTAAGTAGTAGGCCCAAAACAGATTTGTTAACCTATCTGGGG[AG]GGAGAAAAAAGCCAG AACTTTATAAATTGTCCTCAGTAAGTTTGCTAAGACACTGAGGAG		
82001 I		A	CCATTGTCATCTTTCCAAACTTGTTTCTGAAAGGCATCACATT		
82001 P	G	A	ATGACGTGGCAGACGGAGAGGGGATGCTGY		
82001 P	A	A	CGCGCCGAGGAGAGAGGGGATGCTGY		
82001 T	G	A	CTGTCAGCATCCCCTCTCCATGTGATGCCTTTCAGAAACAAGTTTGGAAAGATGACAATGGCG		
82001 T	A	A	CTGTCAGCATCCCCTCTCTATGTGATGCCTTTCAGAAACAAGTTTGGAAAGATGACAATGGCG		
82001 IS	[GA]		TGTGTATTGTGGCTGACGCCATTGTCATCTTTCCAAACTTGTTTCTGAAAGGCATCACAT[GA]GAGAGGGGATGCTGA CAGGGATGACACAGTCCCAGCTCCAGAAACACCGTCAGCTGAACC		
82004 I		S	AAAGTGGGCTTATTACTTGGGCATTATAGAGAAAATACATTTCTA		
82004 P	A	S	CGCGCCGAGGTGATTCATTTTCAGGATGTTAAAGY		
82004 P	G	S	ATGACGTGGCAGACCGATTCATTTTCAGGATGTTAAAY		
82004 T	A	S	AAAGCTTTAACATCCTGAAAATGAATCAAGAAATGTATTTTCTCTATAATGCCCAAGTAATAAGCCCACTTTTC		
82004 T	G	S	AAAGCTTTAACATCCTGAAAATGAATCGAGAAATGTATTTTCTCTATAATGCCCAAGTAATAAGCCCACTTTTC		
82004 IS	[AG]		AAATATCTGAAATAGCAGAGTCACAAACACAGCAAAGCTTTAACATCCTGAAAATGAATC[AG]AGAAATGTATTTTCTCT ATAATGCCCAAGTAATAAGCCCACTTTTCAGTTGAATGGATAA		
82024 I		S	GGACAGCAATCTTTGGAGTTAATTAGCTGGGTTAAAACCAGATT		
82024 P	C	S	ATGACGTGGCAGACGGGAAGGAACCTTTAACTTY		
82024 P	T	S	CGCGCCGAGGAGGAAGGAACCTTTAACTTCY		
82024 T	C	S	CTTTGAAGTTAAAGGTTCCTTCCCATCTGGTTTTAACCCAGCTAATTAACTCCAAAGATTGCTGTCCAG		
82024 T	T	S	CTTTGAAGTTAAAGGTTCCTTCCTATCTGGTTTTAACCCAGCTAATTAACTCCAAAGATTGCTGTCCAG		
82024 IS	[CT]		CTCCAAGGGCCTTTTCTCCTCAGCTGGGCCTCTCTAGCTTTGAAGTTAAAGGTTCCTTCC[CT]ATCTGGTTTTAACCCA GCTAATTAACTCCAAAGATTGCTGTCCAGGGCACAGACTGACCA		
82028 I		A	GGGTGCAGAGGGAGGCAGCGGT		
82028 P	A	A	CGCGCCGAGGATCTGAGTGGTCCCCTY		
82028 P	G	A	ATGACGTGGCAGACGTCTGAGTGGTCCCCY		
82028 T	A	A	AGCCAGGGGACCACTCAGATCCGCTGCCTCCCTCTGCACCCTC		
82028 T	G	A	AGCCAGGGGACCACTCAGACCCGCTGCCTCCCTCTGCACCCTC		
82028 IS	[AG]		GAAAGGAGGCGGGGTCAGAGCCCCCTCCCGAGTGGGAGAGGGTGCAGAGGGAGGCAGCGG[AG]TCTGAGTGGTCC CCTGGCTCAGGGCCAAAATGAGCAAACAGGTCCAAGGGAGTTTTGCCT		
82051 I		S	GACCCAATGAGGGGCTCAGGGTTTCCAA		
82051 P	G	S	ATGACGTGGCAGACCTCAATGACATCGATGGCY		
82051 P	A	S	CGCGCCGAGGTTCAATGACATCGATGGCY		
82051 T	G	S	GATCGCCATCGATGTCATTGAGTGGAAACCCTGAGCCCCTCATTGGGTCAG		
82051 T	A	S	GATCGCCATCGATGTCATTGAATGGAAACCCTGAGCCCCTCATTGGGTCAG		
82051 IS	[GA]		CAAGGCTTATGAGGGCGAGGCCTTATAGAAGGTGACCCAGATCGCCATCGATGTCATTGA[GA]TGGAAACCCTGAGC CCCTCATTGGGTCAGACCTGATCAGCCACCTCTGCACCTGAATAAA		
82055 I		A	GGGCACAGTCTTAGCCCATAGGCCCAT		
82055 P	G	A	ATGACGTGGCAGACGTCGCAGCTCTGGGY		
82055 P	A	A	CGCGCCGAGGATCGCAGCTCTGGGY		
82055 T	G	A	CTTTCCCAGAGCTGCGACTGGGCCTATGGGCTAAGACTGTGCCCCG		
82055 T	A	A	CTTTCCCAGAGCTGCGATTGGGCCTATGGGCTAAGACTGTGCCCCG		
82055 IS	[GA]		GTTTAAGCAACAGATGTTGGAGCTGTTATGCCCGGGGCACAGTCTTAGCCCATAGGCCCA[GA]TCGCAGCTCTGGGA AAGGGAGAGATGGGAGGGAGAGACAGAGGACCCCGATTTGGAGGAA		
82069 I		S	CCAATACATCTGGGGACCTCTCAGAGGCAGAATAGTCA		
82069 P	A	S	CGCGCCGAGGTGAAGGCTTGTTATGGCY		
82069 P	G	S	ATGACGTGGCAGACCGAAGGCTTGTTATGGCY		
82069 T	A	S	TTGGGCCATAACAAGCCTTCAGACTATTCTGCCTCTGAGAGGTCCCCAGATGTATTGGAG		
82069 T	G	S	TTGGGCCATAACAAGCCTTCGGACTATTCTGCCTCTGAGAGGTCCCCAGATGTATTGGAG		
82069 IS	[AG]		CTGCCATTTAAATCTTCCCCTCTTGTATTTTCTTTGAACTTTGGGCCATAACAAGCCTTC[AG]GACTATTCTGCCTCTGA GAGGTCCCCAGATGTATTGGAGAAGCTGTGGGTTCGGATGTCT		
82087 I		S	GCTCCTGAGGAAAGGCCCACCCCCT		
82087 P	G	S	CGCGCCGAGGCCCAATCTCAACAGCATCY		
82087 P	C	S	ATGACGTGGCAGACGCCAATCTCAACAGCATY		
82087 T	G	S	AGCTGATGCTGTTGAGATTGGGGGGGGTGGGCCTTTCCTCAGGAGCCC		
82087 T	C	S	AGCTGATGCTGTTGAGATTGGCGGGGGTGGGCCTTTCCTCAGGAGCCC		
82087 IS	[GC]		CTTCTTAGTAGGGCCTTAGAGTCACCCAACAACTCCCAGAGCTGATGCTGTTGAGATTGG[GC]GGGGGTGGGCCTTT CCTCAGGAGCCCCCACTGTTGGAATACCTGGAGGGTGTGAAACCGC		
82088 I		A	CTGGGGGCAGGCAGGAAAGCCTT		
82088 P	G	A	ATGACGTGGCAGACGCCAGGAATGAGTGAAGY		
82088 P	A	A	CGCGCCGAGGACCAGGAATGAGTGAAGAY		
82088 T	G	A	ACCTTCTTCACTCATTCCTGGCAGGCTTTCCTGCCTGCCCCCAGCT		
82088 T	A	A	ACCTTCTTCACTCATTCCTGGTAGGCTTTCCTGCCTGCCCCCAGCT		
82088 IS	[GA]		TTGTGCAGGGCGCCAAGGGGGTGGTGAGGCCAGCCCAGCTGGGGGCAGGCAGGAAAGCCT[GA]CCAGGAATGAGT GAAGAAGGTAGAGCTGTGTTGTCCCCTCTGCCTCCCAGGTACTCATTG		
82092 I		S	AGAATACTGCAATGAAAGCTTCGAGCTATACACCTAAAGTTGAAGGT		
82092 P	C	S	ATGACGTGGCAGACGGAGTCCTATTTGCAAGTCY		
82092 P	T	S	CGCGCCGAGGAGAGTCCTATTTGCAAGTCY		

FIGURE 129D

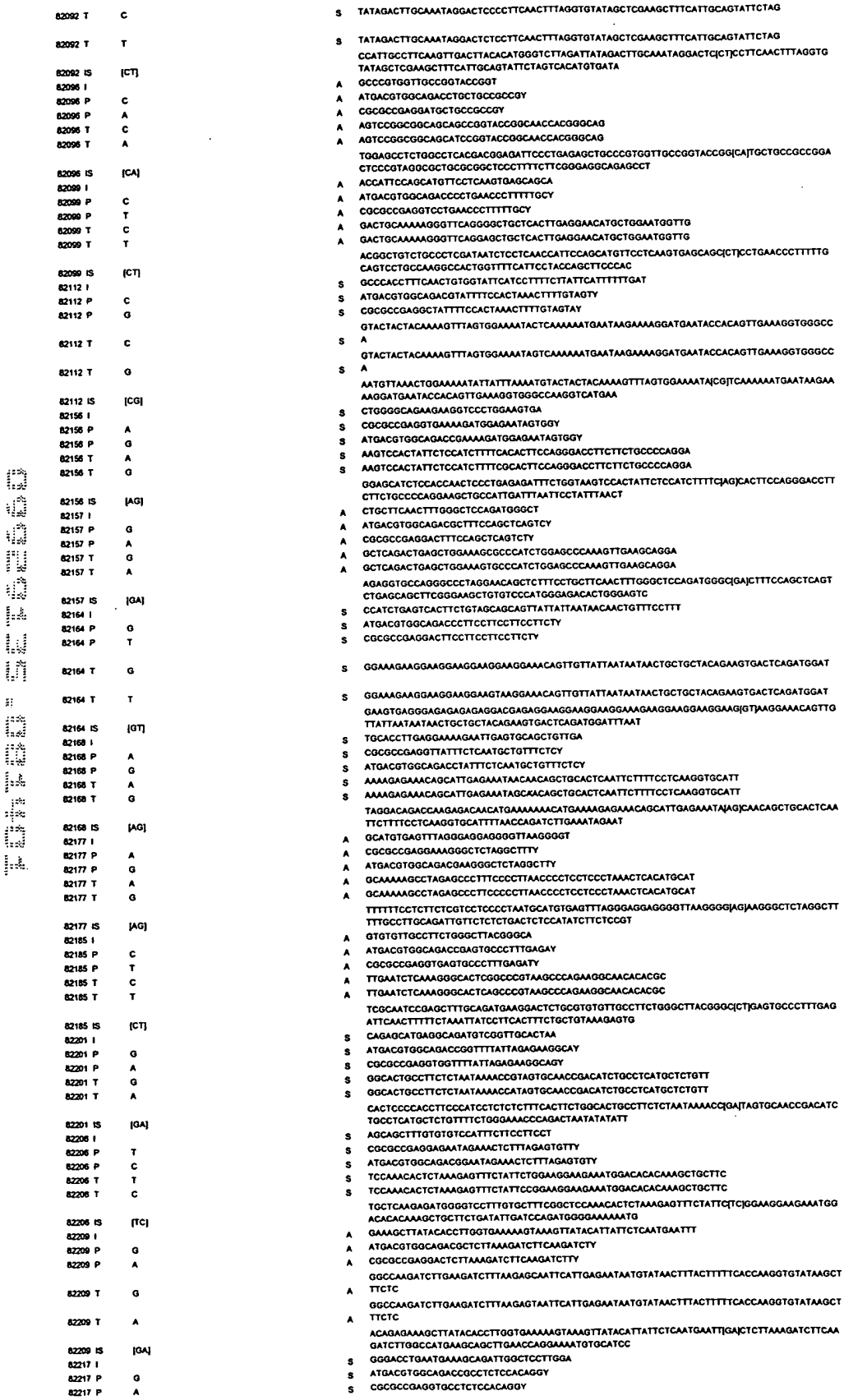
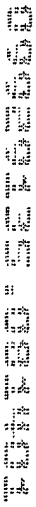

82092 T C
S TATAGACTTGCAAATAGGACTCCCCTTCAACTTTAGGTGTATAGCTCGAAGCTTTCATTGCAGTATTCTAG
82092 T T
S TATAGACTTGCAAATAGGACTCTCCTTCAACTTTAGGTGTATAGCTCGAAGCTTTCATTGCAGTATTCTAG
CCATTGCCTTCAAGTTGACTTACACATGGGTCTTAGATTATAGACTTGCAAATAGGACTC[CT]CCTTCAACTTTAGGTG
82092 IS [CT]
TATAGCTCGAAGCTTTCATTGCAGTATTCTAGTCACATGTGATA
82096 I
A GCCCGTGGTTGCCGGTACCGGT
82096 P C
A ATGACGTGGCAGACCTGCTGCCGCCGY
82096 P A
A CGCGCCGAGGATGCTGCCGCCGY
82096 T C
A AGTCCGGCGGCAGCAGCCGGTACCGGCAACCACGGGCAG
82096 T A
A AGTCCGGCGGCAGCATCCGGTACCGGCAACCACGGGCAG
TGGAGCCTCTGGCCTCACGACGGAGATTCCCTGAGAGCTGCCCGTGGTTGCCGGTACCGG[CA]TGCTGCCGCCGGA
82096 IS [CA]
CTCCCGTAGGCGCTGCGCGGCTCCCTTTTCTTCGGGAGGCAGAGCCT
82099 I
A ACCATTCCAGCATGTTCCTCAAGTGAGCAGCA
82099 P C
A ATGACGTGGCAGACCCCTGAACCCTTTTTGCY
82099 P T
A CGCGCCGAGGTCCTGAACCCTTTTTGCY
82099 T C
A GACTGCAAAAAGGGTTCAGGGGCTGCTCACTTGAGGAACATGCTGGAATGGTTG
82099 T T
A GACTGCAAAAAGGGTTCAGGAGCTGCTCACTTGAGGAACATGCTGGAATGGTTG
ACGGCTGTCTGCCCTCGATAATCTCCTCAACCATTCCAGCATGTTCCTCAAGTGAGCAGC[CT]CCTGAACCCTTTTTG
82099 IS [CT]
CAGTCCTGCCAAGGCCACTGGTTTTCATTCCTACCAGCTTCCCAC
82112 I
S GCCCACCTTTCAACTGTGGTATTCATCCTTTTCTTATTCATTTTTGAT
82112 P C
S ATGACGTGGCAGACGTATTTTCCACTAAACTTTTGTAGTAY
82112 P G
S CGCGCCGAGGCTATTTTCCACTAAACTTTTGTAGTAY
GTACTACTACAAAAGTTTAGTGGAAAATACTCAAAAAATGAATAAGAAAAGGATGAATACCACAGTTGAAAGGTGGGCC
82112 T C
S A
GTACTACTACAAAAGTTTAGTGGAAAATAGTCAAAAAATGAATAAGAAAAGGATGAATACCACAGTTGAAAGGTGGGCC
82112 T G
S A
AATGTTAAACTGGAAAAATATTATTTAAAATGTACTACTACAAAAGTTTAGTGGAAAATA[CG]TCAAAAAATGAATAAGAA
82112 IS [CG]
AAGGATGAATACCACAGTTGAAAGGTGGGCCAAGGTCATGAA
82156 I
S CTGGGGCAGAAGAAGGTCCCTGGAAGTGA
82156 P A
S CGCGCCGAGGTGAAAAGATGGAGAATAGTGGY
82156 P G
S ATGACGTGGCAGACCGAAAAGATGGAGAATAGTGGY
82156 T A
S AAGTCCACTATTCTCCATCTTTTCACACTTCCAGGGACCTTCTTCTGCCCCAGGA
82156 T G
S AAGTCCACTATTCTCCATCTTTTCGCACTTCCAGGGACCTTCTTCTGCCCCAGGA
GGAGCATCTCCACCAACTCCCTGAGAGATTTCTGGTAAGTCCACTATTCTCCATCTTTTC[AG]CACTTCCAGGGACCTT
82156 IS [AG]
CTTCTGCCCCAGGAAGCTGCCATTGATTTAATTCCTATTTAACT
82157 I
A CTGCTTCAACTTTGGGCTCCAGATGGGCT
82157 P G
A ATGACGTGGCAGACGCTTTCCAGCTCAGTCY
82157 P A
A CGCGCCGAGGACTTTCCAGCTCAGTCTY
82157 T G
A GCTCAGACTGAGCTGGAAAGCGCCCATCTGGAGCCCAAAGTTGAAGCAGGA
82157 T A
A GCTCAGACTGAGCTGGAAAGTGCCCATCTGGAGCCCAAAGTTGAAGCAGGA
AGAGGTGCCAGGGCCCTAGGAACAGCTCTTTCCTGCTTCAACTTTGGGCTCCAGATGGGC[GA]CTTTCCAGCTCAGT
82157 IS [GA]
CTGAGCAGCTTCGGGAAGCTGTGTCCCATGGGAGACACTGGGAGTC
82164 I
S CCATCTGAGTCACTTCTGTAGCAGCAGTTATTATTAATAACAACTGTTTCCTTT
82164 P G
S ATGACGTGGCAGACCCTTCCTTCCTTCCTTCTY
82164 P T
S CGCGCCGAGGACTTCCTTCCTTCCTTCTY
82164 T G
S GGAAAGAAGGAAGGAAGGAAGGAAGGAAACAGTTGTTATTAATAATAACTGCTGCTACAGAAGTGACTCAGATGGAT
82164 T T
S GGAAAGAAGGAAGGAAGGAAGTAAGGAAACAGTTGTTATTAATAATAACTGCTGCTACAGAAGTGACTCAGATGGAT
GAAGTGAGGGAGAGAGAGGACGAGAGGAAGGAAGGAAGGAAAGAAGGAAGGAAGGAAG[GT]AAGGAAACAGTTG
82164 IS [GT]
TTATTAATAATAACTGCTGCTACAGAAGTGACTCAGATGGATTTAAT
82168 I
S TGCACCTTGAGGAAAAGAATTGAGTGCAGCTGTTGA
82168 P A
S CGCGCCGAGGTTATTTCTCAATGCTGTTTCTCY
82168 P G
S ATGACGTGGCAGACCTATTTCTCAATGCTGTTTCTCY
82168 T A
S AAAAGAGAAACAGCATTGAGAAATAACAACAGCTGCACTCAATTCTTTTCCTCAAGGTGCATT
82168 T G
S AAAAGAGAAACAGCATTGAGAAATAGCAACAGCTGCACTCAATTCTTTTCCTCAAGGTGCATT
TAGGACAGACCAAGAGACAACATGAAAAAAACATGAAAAGAGAAACAGCATTGAGAAATA[AG]CAACAGCTGCACTCAA
82168 IS [AG]
TTCTTTTCCTCAAGGTGCATTTTAACCAGATCTTGAAATAGAAT
82177 I
A GCATGTGAGTTTAGGGAGGAGGGGTTAAGGGGT
82177 P A
A CGCGCCGAGGAAAGGGCTCTAGGCTTTY
82177 P G
A ATGACGTGGCAGACGAAGGGCTCTAGGCTTY
82177 T A
A GCAAAAAGCCTAGAGCCCTTTCCCCTTAACCCCTCCTCCCTAAACTCACATGCAT
82177 T G
A GCAAAAAGCCTAGAGCCCTTCCCCCTTAACCCCTCCTCCCTAAACTCACATGCAT
TTTTTTCCTCTTCTCGTCCTCCCCTAATGCATGTGAGTTTAGGGAGGAGGGGTTAAGGGG[AG]AAGGGCTCTAGGCTT
82177 IS [AG]
TTTGCCTTGCAGATTGTTCTCTCTGACTCTCCATATCTTCTCCGT
82185 I
A GTGTGTTGCCTTCTGGGCTTACGGGCA
82185 P C
A ATGACGTGGCAGACCGAGTGCCCTTTGAGAY
82185 P T
A CGCGCCGAGGTGAGTGCCCTTTGAGATY
82185 T C
A TTGAATCTCAAAGGGCACTCGGCCCGTAAGCCCAGAAGGCAACACACGC
82185 T T
A TTGAATCTCAAAGGGCACTCAGCCCGTAAGCCCAGAAGGCAACACACGC
TCGCAATCCGAGCTTTGCAGATGAAGGACTCTGCGTGTGTTGCCTTCTGGGCTTACGGGC[CT]GAGTGCCCTTTGAG
82185 IS [CT]
ATTCAACTTTTTCTAAATTATCCTTCACTTTCTGCTGTAAAGAGTG
82201 I
S CAGAGCATGAGGCAGATGTCGGTTGCACTAA
82201 P G
S ATGACGTGGCAGACCGGTTTTATTAGAGAAGGCAY
82201 P A
S CGCGCCGAGGTGGTTTTATTAGAGAAGGCAGY
82201 T G
S GGCACTGCCTTCTCTAATAAAACCGTAGTGCAACCGACATCTGCCTCATGCTCTGTT
82201 T A
S GGCACTGCCTTCTCTAATAAAACCATAGTGCAACCGACATCTGCCTCATGCTCTGTT
CACTCCCCACCTTCCCATCCTCTCTCTTTCACTTCTGGCACTGCCTTCTCTAATAAAACC[GA]TAGTGCAACCGACATC
82201 IS [GA]
TGCCTCATGCTCTGTTTTCTGGGAAACCCAGACTAATATATATT
82206 I
S AGCAGCTTTGTGTGTCCATTTCTTCCTTCCT
82206 P T
S CGCGCCGAGGAGAATAGAAACTCTTTAGAGTGTTY
82206 P C
S ATGACGTGGCAGACGGAATAGAAACTCTTTAGAGTGTY
82206 T T
S TCCAAACACTCTAAAGAGTTTCTATTCTGGAAGGAAGAAATGGACACACAAAGCTGCTTC
82206 T C
S TCCAAACACTCTAAAGAGTTTCTATTCCGGAAGGAAGAAATGGACACACAAAGCTGCTTC
TGCTCAAGAGATGGGGTCCTTTGTGCTTTCGGCTCCAAACACTCTAAAGAGTTTCTATT[CT]CGGAAGGAAGAAATGG
82206 IS [TC]
ACACACAAAGCTGCTTCTGATATTGATCCAGATGGGGAAAAAATG
82209 I
A GAAAGCTTATACACCTTGGTGAAAAAGTAAAGTTATACATTATTCTCAATGAATTT
82209 P G
A ATGACGTGGCAGACGCTCTTAAAGATCTTCAAGATCTY
82209 P A
A CGCGCCGAGGACTCTTAAAGATCTTCAAGATCTTY
GGCCAAGATCTTGAAGATCTTTAAGAGCAATTCATTGAGAATAATGTATAACTTTACTTTTTCACCAAGGTGTATAAGCT
82209 T G
A TTCTC
GGCCAAGATCTTGAAGATCTTTAAGAGTAATTCATTGAGAATAATGTATAACTTTACTTTTTCACCAAGGTGTATAAGCT
82209 T A
A TTCTC
ACAGAGAAAGCTTATACACCTTGGTGAAAAAGTAAAGTTATACATTATTCTCAATGAATT[GA]CTCTTAAAGATCTTCAA
82209 IS [GA]
GATCTTGGCCATGAAGCAGCTTGAACCAGGAAAATGTGCATCC
82217 I
S GGGACCTGAATGAAAGCAGATTGGCTCCTTGGA
82217 P G
S ATGACGTGGCAGACCGCCTCTCCACAGGY
82217 P A
S CGCGCCGAGGTGCCTCTCCACAGGY

FIGURE 129D



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82217 T    G      S  CACCCCTGTGGAGAGGCGCCAAGGAGCCAATCTGCTTTCATTCAGGTCCCTC
82217 T    A      S  CACCCCTGTGGAGAGGCACCAAGGAGCCAATCTGCTTTCATTCAGGTCCCTC
                     GAGGCAGGACTGAGGTCTCAGAGGAGAGGCTAAGCTTTGCCTCCACCCCTGTGGAGAGGC[GA]CCAAGGAGCCAAT
82217 IS   [GA]     CTGCTTTCATTCAGGTCCCTCTTGGATATCTTGGCTTCATAACCTTG
82226 I            S  AGGTCAATTCCTCCAGAGGAAAAAAAGTTATAACAATAAATTTATACCCT
82226 P    T       S  CGCGCCGAGGATAGTACCTAATAATGCTGGCY
82226 P    C       S  ATGACGTGGCAGACGTAGTACCTAATAATGCTGGCY
82226 T    T       S  GTATGCCAGCATTATTAGGTACTATGGGTATAAATTTATTGTTATAACTTTTTTTCCTCTGGAGGAATTGACCTTT
82226 T    C       S  GTATGCCAGCATTATTAGGTACTACGGGTATAAATTTATTGTTATAACTTTTTTTCCTCTGGAGGAATTGACCTTT
                     CTTTTTTTAAATTGGCATTTCATAAAGTGTGATGCTGTATGCCAGCATTATTAGGTACTA[TC]GGGTATAAATTTATTGT
82226 IS   [TC]     TATAACTTTTTTTCCTCTGGAGGAATTGACCTTTTCTCCAACA
82255 I            S  CATCAGGTAGCGGCAGCTTTTCTGGGGTAT
82255 P    G       S  ATGACGTGGCAGACCAAACAACAAAATCCAGTGGY
82255 P    T       S  CGCGCCGAGGAAAACAACAAAATCCAGTGGY
82255 T    G       S  GGTGCCACTGGATTTTGTTGTTTGTACCCCAGAAAAGCTGCCGCTACCTGATGCT
82255 T    T       S  GGTGCCACTGGATTTTGTTGTTTTTACCCCAGAAAAGCTGCCGCTACCTGATGCT
                     AAGTTGAAGGTGAAGTCTCAGCAGCCAGTGGCCAATGGGTGCCACTGGATTTTGTTGTTT[GT]TACCCCAGAAAAGCT
82255 IS   [GT]     GCCGCTACCTGATGCTGCTACTTTTTTAATACTGTCGTTCAAGCT
82292 I            A  CCACCGGGACCTGGCTGCCCC
82292 P    G       A  ATGACGTGGCAGACGCAATGTGCTGGTGACY
82292 P    T       A  CGCGCCGAGGTCAATGTGCTGGTGACTY
82292 T    G       A  CCTCAGTCACCAGCACATTGCGGGCAGCCAGGTCCCGGTGGAT
82292 T    T       A  CCTCAGTCACCAGCACATTGAGGGCAGCCAGGTCCCGGTGGAT
                     GTGTCCTGAGGCACCCAAGCCCCCGCTCCCTGCAGTGTATCCACCGGGACCTGGCTGCCC[GT]CAATGTGCTGGTG
82292 IS   [GT]     ACTGAGGACAATGTGATGAAGATTGCTGACTTTGGGCTGGCCCGCGG
82295 I            S  CTGAGGAATCAGTCCCACGTGGGCCAAA
82295 P    A       S  CGCGCCGAGGTAGCAAGATCAACGTGCY
82295 P    G       S  ATGACGTGGCAGACCAGCAAGATCAACGTGCY
82295 T    A       S  TTAAGCACGTTGATCTTGCTATTGGCCCACGTGGGACTGATTCCTCAGAT
82295 T    G       S  TTAAGCACGTTGATCTTGCTGTTGGCCCACGTGGGACTGATTCCTCAGAT
                     TTCCTCCCTTTTCTGGGAACTAAAGGGATAGTTGCCTTTATTAAGCACGTTGATCTTGCT[AG]TTGGCCCACGTGGGA
82295 IS   [AG]     CTGATTCCTCAGATGTTTCCACTCCTGGGCCCAGGCCACAGGTTC
82405 I            A  GCACACTGTGAGCTGAAGCTGAAGTTTCCCAAAGT
82405 P    G       A  ATGACGTGGCAGACGGTGAGTACAGTCCATGY
82405 P    A       A  CGCGCCGAGGAGTGAGTACAGTCCATGGY
82405 T    G       A  GGTACCATGGACTGTACTCACCCTTTGGGAAACTTCAGCTTCAGCTCACAGTGTGCCT
82405 T    A       A  GGTACCATGGACTGTACTCACTCTTTGGGAAACTTCAGCTTCAGCTCACAGTGTGCCT
                     AGTTTGTTCCTTCAGAGCAGCTGAAGGCACACTGTGAGCTGAAGCTGAAGTTTCCCAAAG[GA]GTGAGTACAGTCCAT
82405 IS   [GA]     GGTACCCAGCTCTGGGGCCTCCAAAGGCTCACACTGAATCACTTC
82407 I            S  TCTGGAGAGGGTTGTCAAAATCAAAAGAGTTAAAATTCTGGAACTGAGT
82407 P    G       S  ATGACGTGGCAGACCTAGAATAGAAGACAGAATTGAGGY
82407 P    T       S  CGCGCCGAGGATAGAATAGAAGACAGAATTGAGGY
82407 T    G       S  TTGACCTCAATTCTGTCTTCTATTCTAGCTCAGTTCCAGAATTTTAACTCTTTTGATTTTGACAACCCTCTCCAGAAA
82407 T    T       S  TTGACCTCAATTCTGTCTTCTATTCTATCTCAGTTCCAGAATTTTAACTCTTTTGATTTTGACAACCCTCTCCAGAAA
                     GCAAGGAGAGAATATAAAAGTCTAGGAAGCATTTTGACCTCAATTCTGTCTTCTATTCTA[GT]CTCAGTTCCAGAATTTT
82407 IS   [GT]     AACTCTTTTGATTTTGACAACCCTCTCCAGAAACTGTATCTAT
82408 I            A  CTCAGTTCCAGAATTTTAACTCTTTTGATTTTGACAACCCTT
82408 P    C       A  ATGACGTGGCAGACCTCCAGAAACTGTATCTATTTCCY
82408 P    A       A  CGCGCCGAGGATCCAGAAACTGTATCTATTTCCY
82408 T    C       A  ACAGGGAAATAGATACAGTTTCTGGAGAGGGTTGTCAAAATCAAAAGAGTTAAAATTCTGGAACTGAGCT
82408 T    A       A  ACAGGGAAATAGATACAGTTTCTGGATAGGGTTGTCAAAATCAAAAGAGTTAAAATTCTGGAACTGAGCT
                     ATTCTGTCTTCTATTCTAGCTCAGTTCCAGAATTTTAACTCTTTTGATTTTGACAACCCT[CA]TCCAGAAACTGTATCTAT
82408 IS   [CA]     TTCCCTGTTCTGATTGGTGGTACAATAGGTAAATTTAAGACT
84165 I            S  TCTTCCCCTGGCCGGGTCACGAC
84165 P    A       S  CGCGCCGAGGTGCCCTATTTATAGCTGAG
84165 P    C       S  ATGACGTGGCAGACGGCCCTATTTATAGCTGAG
84165 T    A       S  ACCCCTCAGCTATAAATAGGGCATCGTGACCCGGCCAGGGGAAGAAG
84165 T    C       S  ACCCCTCAGCTATAAATAGGGCCTCGTGACCCGGCCAGGGGAAGAAG
                     gcctgtgcacaggcagcctgggaacagctcccctcccccacccctcagctatcaaatagggc[ac]tcgtgacccggccagggggaagaagctgccgttgttctgggtactacagcag
84165 IS   [ac]     aaggtaagc
84166 I            S  ACCCTGTGCAAAGGCCTCTAATAGACACTGGGT
84166 P    C       S  ATGACGTGGCAGACGAAAACACACAAGCAAGTG
84166 P    T       S  CGCGCCGAGGAAAAACACACAAGCAAGTG
84166 T    C       S  TTTTCACTTGCTTGTGTGTTTTCCCCAGTGTCTATTAGAGGCCTTTGCACAGGGTAG
84166 T    T       S  TTTTCACTTGCTTGTGTGTTTTTCCCAGTGTCTATTAGAGGCCTTTGCACAGGGTAG
                     agtctcccccagctacactggaaacttccagaaggcacttttcactgctgtgtgtttt[ct]cccagtgtctattagaggccttgcacagggtaggctcttggagccagctgaaggttccca
84166 IS   [ct]
84180 I            A  CTGCTCTGGCCCAGGCAGGTTACCT
84180 P    A       A  CGCGCCGAGGAGGTCCTAGCTATGGAC
84180 P    G       A  ATGACGTGGCAGACGGGTCCTAGCTATGGAC
84180 T    A       A  TCATGTCCATAGCTAGGACCTGGTAACCTGCCTGGGCCAGAGCAGGG
84180 T    G       A  TCATGTCCATAGCTAGGACCCGGTAACCTGCCTGGGCCAGAGCAGGG
                     accagctggagtgtgccctgttgtttctagatcccctgctctggcccaggcaggttacc[ag]tggtcctagctatggacatgaaaggctatggagagtcatctgctcctcccggtgggtg
84180 IS   [ag]     tg
84190 I            A  GCTACGGTGACGTGCCCCCAGGACT
84190 P    C       A  CGCGCCGAGGCCGCATTCAAAGAGGTCY
84190 P    G       A  ATGACGTGGCAGACGCGCATTCAAAGAGGTY
84190 T    C       A  GCCAGACCTCTTTGAATGCGGGTCCTGGGGGCACGTCACCGTAGCTC
84190 T    G       A  GCCAGACCTCTTTGAATGCGCGTCCTGGGGGCACGTCACCGTAGCTC
                     cagctccggcctgggtgaggctgggaggactgagctacggtgacgtgccccaggac[cg]cgcatttcaaagaggtctggcaagtgatcctgaacgccaagggcctgggtca
84190 IS   [cg]     gacaaagaa                                                                                                          IRS1
84213 I            A  GCTGGACTCTCCCTCCTGACATTAGCACCATTTA
84213 P    C       A  ATGACGTGGCAGACCTCCTCTGGCTTCGG
84213 P    T       A  CGCGCCGAGGTTCCTCTGGCTTCGG
84213 T    C       A  ATTTCCGAAGCCAGAGGAGAAATGGTGCTAATGTCAGGAGGGAGAGTCCAGCAG
84213 T    T       A  ATTTCCGAAGCCAGAGGAAAAATGGTGCTAATGTCAGGAGGGAGAGTCCAGCAG
                     attcccttggtagctggacttctgctgctggactctcccctcctgacattagcaccattt[ct]tcctctggctccggaaatgcttacggaaaggtgaggaagtttatgaatgtacttcaaaa
84228 I            S  GGCTGGACCTCTTTTGTTGTGGGGCCT
84228 P    C       S  ATGACGTGGCAGACGCTCTCTGCTGGGGY
84228 P    T       S  CGCGCCGAGGACTCTCTGCTGGGGAY
84228 T    C       S  TAGCTCCCCAGCAGAGAGCGGCCCCACAACAAAAGAGGTCCAGCCCC
84228 T    T       S  TAGCTCCCCAGCAGAGAGTGGCCCCACAACAAAAGAGGTCCAGCCCC
```

FIGURE 129D

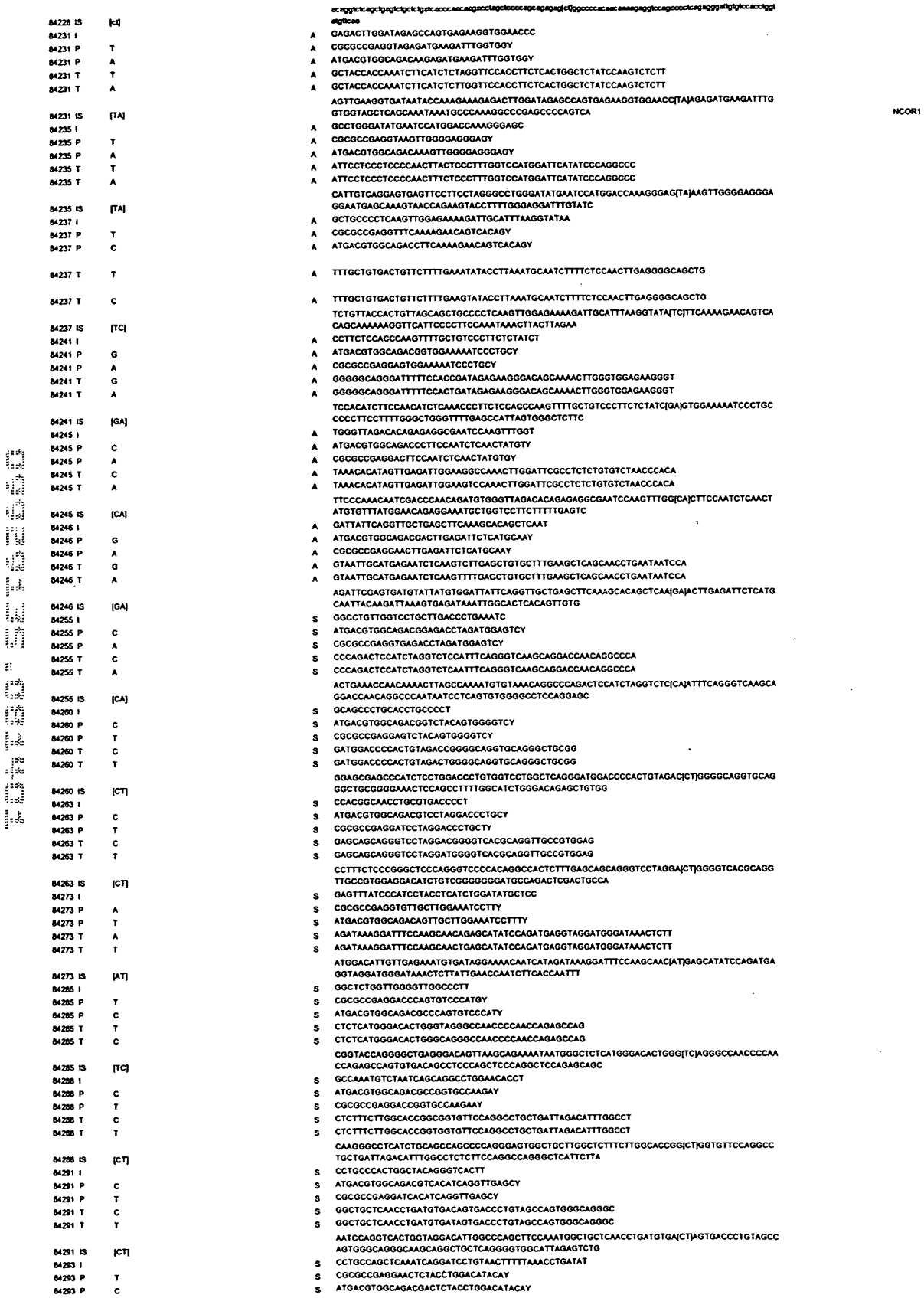


FIGURE 129D

84293 T	T	S	CCAGTGTATGTCCAGGTAGAGTTTATCAGGTTTAAAAAGTTACAGGATCCTGATTTGAGCTGGCAGGGT	
84293 T	C	S	CCAGTGTATGTCCAGGTAGAGTCTATCAGGTTTAAAAAGTTACAGGATCCTGATTTGAGCTGGCAGGGT	
84293 tS	[TC]		TCATCTAAGGAATGGAGTGGGAAGGCTCCTCCTAGTTTCCAGTGTATGTCCAGGTAGAGT[TC]TATCAGGTTTAAAAA GTTACAGGATCCTGATTTGAGCTGGCAGGGTTAAATATATGCCTT	
84339 I		S	ACTGTTGGTCCAGGCCATCCGGGTT	
84339 P	C	S	ATGACGTGGCAGACGTTCTTCATGCTGCGTY	
84339 P	T	S	CGCGCCGAGGATTCTTCATGCTGCGTTY	
84339 T	C	S	AGGGAACGCAGCATGAAGAACACCCGGATGGCCTGGACCAACAGTTC	
84339 T	T	S	AGGGAACGCAGCATGAAGAATACCCGGATGGCCTGGACCAACAGTTC	
84339 tS	[CT]		CGGCAACTGTGTCTCAGGCTCCCCTCGCAATTGCAGTGACAGGGAACGCAGCATGAAGAA[CT]ACCCGGATGGCCTG GACCAACAGTTCAGAGAGCAGAGAAGAGTGAGATTGCAGAGTCATT	
84372 I		S	CATGCGCGCGCGCGCACT	
84372 P	C	S	ATGACGTGGCAGACGCACACACACACACACY	
84372 P	T	S	CGCGCCGAGGACACACACACACACACY	
84372 T	C	S	GTGTGTGTGTGTGTGTGCGTGCGCGCGCGCGCATGTA	
84372 T	T	S	GTGTGTGTGTGTGTGTGTGTGCGCGCGCGCGCATGTA	
84372 tS	[CT]		TGGAAAAATATGTACCTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGC ATGTATACATATAGTATGTTGTAATATTAGCTTGTGATCTAGCATT	
84378 I		A	GCATTGGGAAGGATAATGGATGGCAGCCCAT	
84378 P	G	A	ATGACGTGGCAGACGCTTTTAAACATAATTTGCTTACACY	
84378 P	A	A	CGCGCCGAGGACTTTTAAACATAATTTGCTTACACY	
84378 T	G	A	TTCTGTGTAAGCAAATTATGTTTAAAAGCTGGGCTGCCATCCATTATCCTTCCCAATGCCC	
84378 T	A	A	TTCTGTGTAAGCAAATTATGTTTAAAAGTTGGGCTGCCATCCATTATCCTTCCCAATGCCC	
84378 tS	[GA]		GATATGTGGAAGAGATCAGCCTTGCCTGGGGCATTGGGAAGGATAATGGATGGCAGCCCA[GA]CTTTTAAACATAATT TGCTTACACAGAAATGTGAAGCAGATCTGTCAGGAAAATCAGTTG	
84396 I		S	CCTAACTGAAAGCAGCCAAGTCCCCTACATACTCATTATGTACC	
84396 P	C	S	ATGACGTGGCAGACGCCTTCTATAGATCCTGTTAGY	
84396 P	A	S	CGCGCCGAGGTCCTTCTATAGATCCTGTTAGTAY	
84396 T	C	S	TGCCTACTAACAGGATCTATAGAAGGCGTACATAATGAGTATGTAGGGGACTTGGCTGCTTTCAGTTAGGAA	
84396 T	A	S	TGCCTACTAACAGGATCTATAGAAGGAGTACATAATGAGTATGTAGGGGACTTGGCTGCTTTCAGTTAGGAA	
84396 tS	[CA]		GGGAGTGCATGCACACACATGCCCCCCTTTTTCTTGCCTACTAACAGGATCTATAGAAGG[CA]GTACATAATGAGTAT GTAGGGGACTTGGCTGCTTTCAGTTAGGAATGAGACACTGATATG	
84409 I		S	TCAAGCAACAAATCAACTCCACGAAGGGCTGTGT	
84409 P	T	S	CGCGCCGAGGAAACCATATCTGCCCGTY	
84409 P	C	S	ATGACGTGGCAGACGAACCATATCTGCCCGY	
84409 T	T	S	GGAAACGGGCAGATATGGTTTCACAGCCCTTCGTGGAGTTGATTTGTTGCTTGATC	
84409 T	C	S	GGAAACGGGCAGATATGGTTCCACAGCCCTTCGTGGAGTTGATTTGTTGCTTGATC	
84409 tS	[TC]		TTAGCTACTGGCTTGCCACTAGAGAGAGGCTCTCGGGAAAGGAAACGGGCAGATATGGTT[TC]CACAGCCCTTCGTG GAGTTGATTTGTTGCTTGATCCTGGGATGCTACAGATGCTTTAAAG	
84432 I		A	GTCCAGCAGCCCCAGCTCACAGCA	
84432 P	C	A	ATGACGTGGCAGACCTAGCCACATGTCACTGY	
84432 P	T	A	CGCGCCGAGGTTAGCCACATGTCACTGAY	
84432 T	C	A	CGCTTCAGTGACATGTGGCTAGGCTGTGAGCTGGGGCTGCTGGACAG	
84432 T	T	A	CGCTTCAGTGACATGTGGCTAAGCTGTGAGCTGGGGCTGCTGGACAG	
84432 tS	[CT]		GCATGCCGCTGCAGGGCCCTGGCCAGGAAGGAGCGCTGTCCAGCAGCCCCAGCTCACAGC[CT]TAGCCACATGTCA CTGAAGCGCTAACAATGCCAAGCCTCTCTAACCCAGAGGCTTTCTCA	
84451 I		A	CCGTCTTGCACGCACCCAGGCAA	
84451 P	C	A	ATGACGTGGCAGACCGAGCTAGATGCGTCAY	
84451 P	T	A	CGCGCCGAGGTGAGCTAGATGCGTCATY	
84451 T	C	A	AGGTATGACGCATCTAGCTCGTGCCTGGGTGCGTGCAAGACGGTT	
84451 T	T	A	AGGTATGACGCATCTAGCTCATGCCTGGGTGCGTGCAAGACGGTT	
84451 tS	[CT]		AAAAGCACGAACTTAAAAAAAACCATGTATTCTTTAAACCGTCTTGCACGCACCCAGGCA[CT]GAGCTAGATGCGTCAT ACCTTGCACCTACACCATCCACCTGAAAAATACAGTAAAATGAC	
84465 I		S	GTGACGGGTCCTGAGCCCAGTTCCAT	
84465 P	C	S	ATGACGTGGCAGACGAGGTCCAGTTTTATGCCY	
84465 P	T	S	CGCGCCGAGGAAGGTCCAGTTTTATGCCY	
84465 T	C	S	GGCAGGCATAAAACTGGACCTCTGGAACTGGGCTCAGGACCCGTCACTG	
84465 T	T	S	GGCAGGCATAAAACTGGACCTTTGGAACTGGGCTCAGGACCCGTCACTG	
84465 tS	[CT]		TGCAACAGGAGGGTGCCCAACATAAGAGGGCTGAATGAGGGCAGGCATAAAACTGGACCT[CT]TGGAACTGGGCTCA GGACCCGTCACTGCCTATACAGCCCCACGTGGAGAACCCACCACAT	
84475 I		A	AGCCCGCTGCCGCTGCGATATGA	
84475 P	T	A	CGCGCCGAGGTACACATGTCTTCCCACTY	
84475 P	C	A	ATGACGTGGCAGACCACACATGTCTTCCCACY	
84475 T	T	A	TGAGAGTGGGAAGACATGTGTACATATCGCAGCGGCAGCGGGCTTC	
84475 T	C	A	TGAGAGTGGGAAGACATGTGTGCATATCGCAGCGGCAGCGGGCTTC	
84475 tS	[TC]		CTCAGGGACTCTTGCCAGCTCATGAATAATATCGCTGAAGCCCGCTGCCGCTGCGATATG[TC]ACACATGTCTTCCCA CTCTCATCATCATAGTTGATTATGGACGGCCCCTGGTGATGGCTC	
84480 I		A	AAAATTCTTCGGTTCTTTCCCACAGGTGTGCATTTTTTAAAGTATCAGT	
84480 P	G	A	ATGACGTGGCAGACGTACAGAACAATTAATTTTATTCCTATTCY	
84480 P	A	A	CGCGCCGAGGATACAGAACAATTAATTTTATTCCTATTCY	
84480 T	G	A	CCTTGAATAGGAATAAAATTAATTGTTCTGTACCTGATACTTTAAAAAATGCACACCTGTGGGAAAGAACCGAAGAATT TTCT	
84480 T	A	A	CCTTGAATAGGAATAAAATTAATTGTTCTGTATCTGATACTTTAAAAAATGCACACCTGTGGGAAAGAACCGAAGAATTT TCT	
84480 tS	[GA]		ATAAGCCTTAAGAAAATTCTTCGGTTCTTTCCCACAGGTGTGCATTTTTTAAAGTATCAG[GA]TACAGAACAATTAATTT TATTCCTATTCAAGGTCTTTGTATACAGCCTTTAAAAAAAAAA	
84497 I		S	GTAGAAGGAGCACAGGACAACTCTCTTCACAA	
84497 P	G	S	ATGACGTGGCAGACCAAGGAAGCTGTGTGTTY	
84497 P	A	S	CGCGCCGAGGTAAGGAAGCTGTGTGTTTACY	
84497 T	G	S	TTGTGTAAACACACAGCTTCCTTGTGTGAAGAGAGTTGTCCTGTGCTCCTTCTACTG	
84497 T	A	S	TTGTGTAAACACACAGCTTCCTTATGTGAAGAGAGTTGTCCTGTGCTCCTTCTACTG	
84497 tS	[GA]		TAATGGGAGAATGTGGTTTTGATTCTGGGTGTTTGAATTGTGTAAACACACAGCTTCCTT[GA]TGTGAAGAGAGTTGTC CTGTGCTCCTTCTACTGTACTTTTTTTATTTTTTAATAGGAAAG	
84509 I		S	CCATGTGTAGGTATTGAAAAAGTTTGGAAGCACTGATCACCTGTTAT	
84509 P	C	S	ATGACGTGGCAGACGCATTGCCATTCCTCTACY	
84509 P	T	S	CGCGCCGAGGACATTGCCATTCCTCTACY	
84509 T	C	S	TGCAGTAGAGGAATGGCAATGCTAACAGGTGATCAGTGCTTCCAAACTTTTTCAATACCTACACATGGGA	
84509 T	T	S	TGCAGTAGAGGAATGGCAATGTTAACAGGTGATCAGTGCTTCCAAACTTTTTCAATACCTACACATGGGA	
84509 tS	[CT]		CCAAAAAGCTTTATATACATAGCTTTATACTATTTACATTGCAGTAGAGGAATGGCAATG[CT]TAACAGGTGATCAGTG CTTCCAAACTTTTTCAATACCTACACATGGGAGATCTAAAGAGT	CENPF
84524 I		A	TCTTCTTTCATGTGGGGAGTCACCCAAGTT	
84524 P	A	A	CGCGCCGAGGAGCACAATGGCTTTAGACY	
84524 P	G	A	ATGACGTGGCAGACGGCACAATGGCTTTAGAY	

FIGURE 129D

84524 T	A		A	CAGAGTCTAAAGCCATTGTGCTACTTGGGTGACTCCCCACATGAAAGAAGATC
84524 T	G		A	CAGAGTCTAAAGCCATTGTGCCACTTGGGTGACTCCCCACATGAAAGAAGATC
84524 IS	[AG]	GCAGTAGAAAAATAAAGAAGAAAAATAAAGATCTTCTTTCATGTGGGGAGTCACCCAAGT[AG]GCACAATGGCTTTAGA CTCTGAAGTCACCTGGAACAATCTGGAGGAGGTGGCAGCAAGAC		
84527 I			S	CGCGAGTACGTTGCAAGCAACGAGCAAAA
84527 P	G		S	ATGACGTGGCAGACCTTTGAAGGGTTTCTACTTCAY
84527 P	A		S	CGCGCCGAGGTTTTGAAGGGTTTCTACTTCAY
84527 T	G		S	GCAGTGAAGTAGAAACCCTTCAAAGTTTGCTCGTTGCTTGCAACGTACTCGCGCC
84527 T	A		S	GCAGTGAAGTAGAAACCCTTCAAAATTTGCTCGTTGCTTGCAACGTACTCGCGCC
84527 IS	[GA]	GGCTGCGGGGGGCGGTGGAGGGGGCTGGACGGGGAGGCAGTGAAGTAGAAACCCTTCAAA[GA]TTTGCTCGTTGCT TGCAACGTACTCGCGCCTCACATTTTTAACTCTTTAAAATGTATGTA		
84556 I			S	GCAACTGTCTTAACTTCTGCATTTTTGATTTCTGCAAGTTGAAGGATATAT
84556 P	C		S	ATGACGTGGCAGACGCAAACCTCAACCAAGGY
84556 P	T		S	CGCGCCGAGGACAAACCTCAACCAAGGY
84556 T	C		S	AAGACCTTGGTTGAGGTTTGCTATATCCTTCAACTTGCAGAAATCAAAAATGCAGAAGTTAAGACAGTTGCCT
84556 T	T		S	AAGACCTTGGTTGAGGTTTGTTATATCCTTCAACTTGCAGAAATCAAAAATGCAGAAGTTAAGACAGTTGCCT
84556 IS	[CT]	TTTTATTCTCAACCAAAATGCCACAAAGAGGACGTCACTTAAGACCTTGGTTGAGGTTTG[CT]TATATCCTTCAACTTG CAGAAATCAAAAATGCAGAAGTTAAGACAGTTGCCTCATTTGAC		
84565 I			A	AGAGGCCTCTATACCCACACCCCTGCTT
84565 P	G		A	ATGACGTGGCAGACGCACCAGCTTCCGY
84565 P	A		A	CGCGCCGAGGACACCAGCTTCCGGY
84565 T	G		A	TCAGCCGGAAGCTGGTGCAGCAGGGGTGTGGGTATAGAGGCCTCTTT
84565 T	A		A	TCAGCCGGAAGCTGGTGTAGCAGGGGTGTGGGTATAGAGGCCTCTTT
84565 IS	[GA]	TGAAAATCTGGCTCCTAATCCCTACCCGGGGAAAGAGGCCTCTATACCCACACCCCTGCT[GA]CACCAGCTTCCGGCT GACCTGGAAGCCGGCCCCCAGGGCTGCTGTCCCATCCCGAAGTGTG		
84591 I			A	GGAGCAAGATTTCTAGATGCCAAATTTCTAGTAAGACTCTTATATTTTATTTTTTTTCTTA
84591 P	C		A	ATGACGTGGCAGACCCTTCTTTAATTTGCTTTTCTTTTTY
84591 P	T		A	CGCGCCGAGGTCTTCTTTAATTTGCTTTTCTTTTTGY
84591 T	C	ATGTCAAAAAGAAAAGCAAATTAAAGAAGGAAGAAAAAAAATAAAATATAAGAGTCTTACTAGAAATTTGGCATCTAGAA	A	ATCTTGCTCC
84591 T	T	ATGTCAAAAAGAAAAGCAAATTAAAGAAGAAAGAAAAAAAATAAAATATAAGAGTCTTACTAGAAATTTGGCATCTAGAA	A	ATCTTGCTCC
84591 IS	[CT]	GGAGCAAGATTTCTAGATGCCAAATTTCTAGTAAGACTCTTATATTTTATTTTTTTTCTT[CT]CTTCTTTAATTTGCTTTT CTTTTTGACATAATTTCTCTTCTCTCTGAATTTTTTTTTGCT		
84592 I			A	CCAGGTGACTCATGTTTGGCTTGTGATGACCACT
84592 P	G		A	ATGACGTGGCAGACGGCCTATATTCGATAAATGTGTY
84592 P	A		A	CGCGCCGAGGAGCCTATATTCGATAAATGTGTY
84592 T	G		A	ATAGACACATTTATCGAATATAGGCCGTGGTCATCACAAGCCAAACATGAGTCACCTGGGT
84592 T	A		A	ATAGACACATTTATCGAATATAGGCTGTGGTCATCACAAGCCAAACATGAGTCACCTGGGT
84592 IS	[GA]	ATTGCTCTAAAAAAAAAACCACATCACCCAGGTGACTCATGTTTGGCTTGTGATGACCAC[GA]GCCTATATTCGATAAA TGTGTCTATTTGCTTTTTTTCTTACTATTTTTTATTTCTCCTAT		
84602 I			A	GTTATGCGTATAATTTCATACTGAATTTATTACTATTTGGGATGTACGTCAT
84602 P	A		A	CGCGCCGAGGATGTTCTAACAAACACTGCCY
84602 P	G		A	ATGACGTGGCAGACGTGTTCTAACAAACACTGCY
84602 T	A		A	TGTTGGCAGTGTTTGTTAGAACATTGACGTACATCCCAAATAGTAATAAATTCAGTATGAAATTATACGCATAACCT
84602 T	G		A	TGTTGGCAGTGTTTGTTAGAACACTGACGTACATCCCAAATAGTAATAAATTCAGTATGAAATTATACGCATAACCT
84602 IS	[AG]	GTGAGTAAGGTTATGCGTATAATTTCATACTGAATTTATTACTATTTGGGATGTACGTCA[AG]TGTTCTAACAAACACTG CCAACACGTCAATTTTTTAAAAAGCGTGGGCCACATTGCTAAG		
84634 I			S	CAGATTCTGGGCCCCAACCCCATGCT
84634 P	C		S	ATGACGTGGCAGACGTGTATCACCTGCTTTTACTY
84634 P	T		S	CGCGCCGAGGATGTATCACCTGCTTTTACTTAY
84634 T	C		S	ACATTAAGTAAAAGCAGGTGATACACGCATGGGGTTGGGGCCCAGAATCTGGT
84634 T	T		S	ACATTAAGTAAAAGCAGGTGATACATGCATGGGGTTGGGGCCCAGAATCTGGT
84634 IS	[CT]	AGCATATTGATTTGTTTGTTTATTTTTTTGTGGAAACATTAAGTAAAAGCAGGTGATACA[CT]GCATGGGGTTGGGGCC CAGAATCTGGTTGATTAAATAAAAACTCTTTTACTCTGTTTCCT		
84637 I			A	ACATGGCTTTTCTTATGAACTTCCTTTGTTGTCAAAGGCATGTT
84637 P	A		A	CGCGCCGAGGATAATGATTTCTACAGTTCTGGTY
84637 P	G		A	ATGACGTGGCAGACGTAATGATTTCTACAGTTCTGGTY
84637 T	A		A	ACTAACCAGAACTGTAGAAATCATTATACATGCCTTTGACAACAAAGGAAGTTCATAAGAAAAGCCATGTCG
84637 T	G		A	ACTAACCAGAACTGTAGAAATCATTACACATGCCTTTGACAACAAAGGAAGTTCATAAGAAAAGCCATGTCG
84637 IS	[AG]	TAGTAGAGGAAAAGCCGACATGGCTTTTCTTATGAACTTCCTTTGTTGTCAAAGGCATGT[AG]TAATGATTTCTACAGT TCTGGTTAGTTAACTTTAGCTCCCTCTGTGGCTGGATGACTGCT		
84655 I			S	AGGAGGGAGTAGTCCTGATATTGTTACTAGTCGAGATAA
84655 P	A		S	CGCGCCGAGGTAGAAGATGAAGACATAATGTGAAY
84655 P	G		S	ATGACGTGGCAGACCAGAAGATGAAGACATAATGTGAY
84655 T	A		S	GGTATTCACATTATGTCTTCATCTTCTATATCTCGACTAGTAACAATATCAGGACTACTCCCTCCTGA
84655 T	G		S	GGTATTCACATTATGTCTTCATCTTCTGTATCTCGACTAGTAACAATATCAGGACTACTCCCTCCTGA
84655 IS	[AG]	TTCTAACAACCATCATTTTTATACAAAATGGAAGGTATTCACATTATGTCTTCATCTTCT[AG]TATCTCGACTAGTAACAA TATCAGGACTACTCCCTCCTGAGAACTATATTCATTTCTCAT		
84675 I			S	CTTTCTTTTGTATTGACAAAGTGGTAGGTTAAAATGTTTAAATACAATTTTATTTGGTAAT
84675 P	C		S	ATGACGTGGCAGACGCCAGTGTATTTTTATGTATGTTAY
84675 P	T		S	CGCGCCGAGGACCAGTGTATTTTTATGTATGTTACY
84675 T	C	TGGGGTAACATACATAAAAATACACTGGCTTACCAAATAAAATTGTATTTAAACATTTTAACCTACCACTTTGTCAATAC	S	AAAAGAAAG
84675 T	T	TGGGGTAACATACATAAAAATACACTGGTTTACCAAATAAAATTGTATTTAAACATTTTAACCTACCACTTTGTCAATACA	S	AAAGAAAG
84675 IS	[CT]	AAACTGCGTTATTACTCAAAGTGAGAAAGAACTGGGGTAACATACATAAAAATACACTGG[CT]TTACCAAATAAAATTGT ATTTAAACATTTTAACCTACCACTTTGTCAATACAAAAGAAAG		
84710 I			S	CAGAAATCAATGAGCTAGTTGCTTGGGCAACACTGAAT
84710 P	T		S	CGCGCCGAGGACCCAAAGTCTTGTAAAGAATY
84710 P	C		S	ATGACGTGGCAGACGCCCAAAGTCTTGTAAAGAY
84710 T	T		S	AGAAATTCTTTACAAGACTTTGGGTTTCAGTGTTGCCCAAGCAACTAGCTCATTGATTTCTGCT
84710 T	C		S	AGAAATTCTTTACAAGACTTTGGGCTTCAGTGTTGCCCAAGCAACTAGCTCATTGATTTCTGCT
84710 IS	[TC]	AAACAGACATCAACAGCAAAGTACCTTTAAACCAGAAGAAATTCTTTACAAGACTTTGGG[TC]TTCAGTGTTGCCCAAG CAACTAGCTCATTGATTTCTGCTGGAAAAGGTGTCTTCGTTACT		
84714 I			S	CACAGAAGTCTACGGCAAGGCTGCTCCAA
84714 P	A		S	CGCGCCGAGGTCCTGAGGCACGCY
84714 P	G		S	ATGACGTGGCAGACCCCTGAGGCACGCY
84714 T	A		S	AAGGGCGTGCCTCAGGATGGAGCAGCCTTGCCGTAGACTTCTGTGGT
84714 T	G		S	AAGGGCGTGCCTCAGGGTGGAGCAGCCTTGCCGTAGACTTCTGTGGT

FIGURE 129D

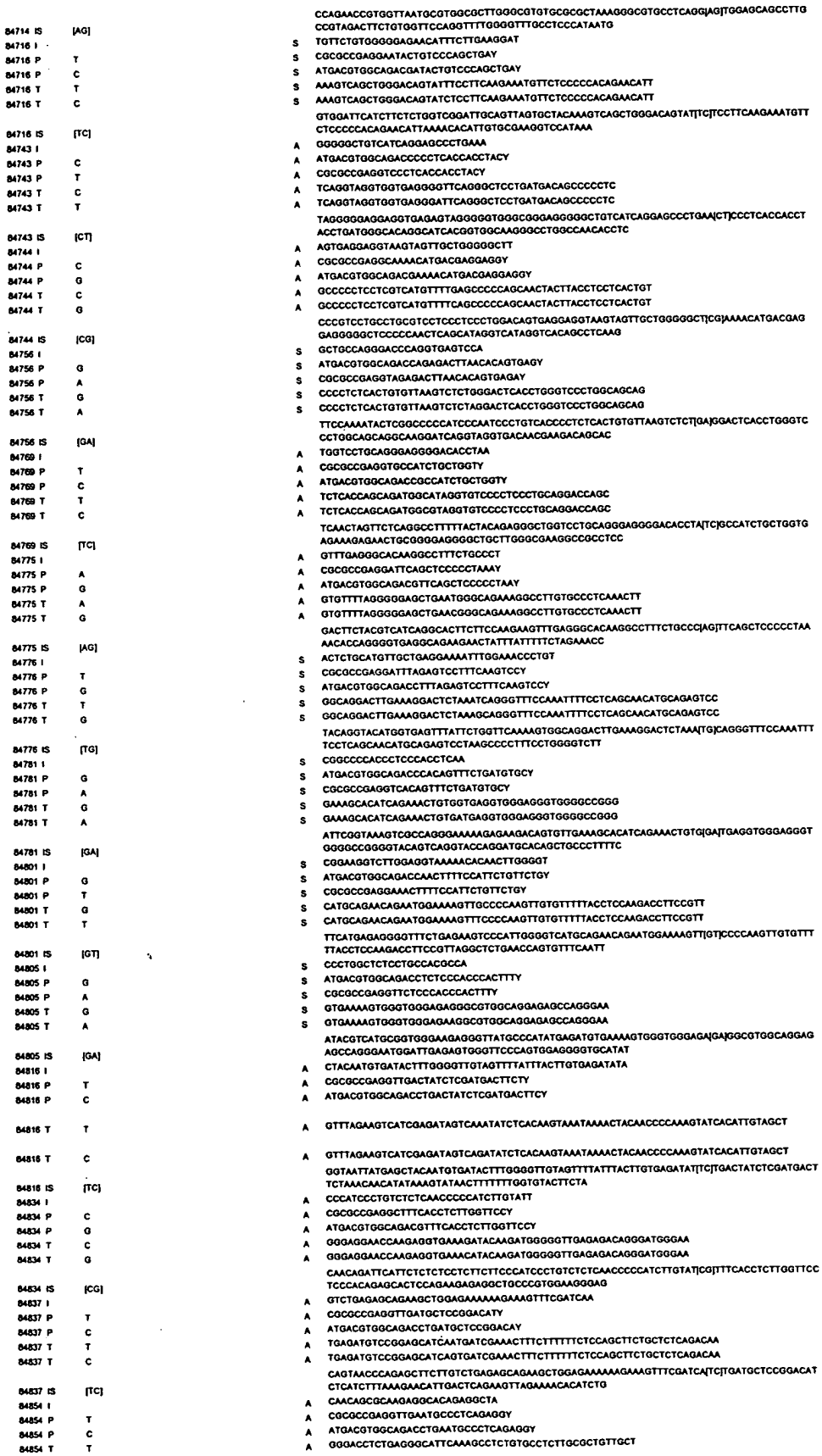

CCAGAACCGTGGTTAATGCGTGGCGCTTGGGCGTGTGCGCGCTAAAGGGCGTGCCTCAGG[AG]TGGAGCAGCCTTG
84714 IS [AG] CCGTAGACTTCTGTGGTTCCAGGTTTTGGGGTTTGCCTCCCATAATG
84716 I S TGTTCTGTGGGGGAGAACATTTCTTGAAGGAT
84716 P T S CGCGCCGAGGAATACTGTCCCAGCTGAY
84716 P C S ATGACGTGGCAGACGATACTGTCCCAGCTGAY
84716 T T S AAAGTCAGCTGGGACAGTATTTCCTTCAAGAAATGTTCTCCCCCACAGAACATT
84716 T C S AAAGTCAGCTGGGACAGTATCTCCTTCAAGAAATGTTCTCCCCCACAGAACATT
GTGGATTCATCTTCTCTGGTCGGATTGCAGTTAGTGCTACAAAGTCAGCTGGGACAGTAT[TC]TCCTTCAAGAAATGTT
84716 IS [TC] CTCCCCCACAGAACATTAAAACACATTGTGCGAAGGTCCATAAA
84743 I A GGGGGCTGTCATCAGGAGCCCTGAAA
84743 P C A ATGACGTGGCAGACCCCCTCACCACCTACY
84743 P T A CGCGCCGAGGTCCCTCACCACCTACY
84743 T C A TCAGGTAGGTGGTGAGGGGTTCAGGGCTCCTGATGACAGCCCCCTC
84743 T T A TCAGGTAGGTGGTGAGGGATTCAGGGCTCCTGATGACAGCCCCCTC
TAGGGGGAGGAGGTGAGAGTAGGGGGTGGGCGGGAGGGGGCTGTCATCAGGAGCCCTGAA[CT]CCCTCACCACCT
84743 IS [CT] ACCTGATGGGCACAGGCATCACGGTGGCAAGGGCCTGGCCAACACCTC
84744 I A AGTGAGGAGGTAAGTAGTTGCTGGGGGCTT
84744 P C A CGCGCCGAGGCAAAACATGACGAGGAGGY
84744 P G A ATGACGTGGCAGACGAAAACATGACGAGGAGGY
84744 T C A GCCCCCTCCTCGTCATGTTTTGAGCCCCCAGCAACTACTTACCTCCTCACTGT
84744 T G A GCCCCCTCCTCGTCATGTTTTCAGCCCCCAGCAACTACTTACCTCCTCACTGT
CCCGTCCTGCCTGCGTCCTCCCTCCCTGGACAGTGAGGAGGTAAGTAGTTGCTGGGGGCT[CG]AAAACATGACGAG
84744 IS [CG] GAGGGGGCTCCCCCAACTCAGCATAGGTCATAGGTCACAGCCTCAAG
84756 I S GCTGCCAGGGACCCAGGTGAGTCCA
84756 P G S ATGACGTGGCAGACCAGAGACTTAACACAGTGAGY
84756 P A S CGCGCCGAGGTAGAGACTTAACACAGTGAGAY
84756 T G S CCCCTCTCACTGTGTTAAGTCTCTGGGACTCACCTGGGTCCCTGGCAGCAG
84756 T A S CCCCTCTCACTGTGTTAAGTCTCTAGGACTCACCTGGGTCCCTGGCAGCAG
TTCCAAAATACTCGGCCCCCATCCCAATCCCTGTCACCCCTCTCACTGTGTTAAGTCTCT[GA]GGACTCACCTGGGTC
84756 IS [GA] CCTGGCAGCAGGCAAGGATCAGGTAGGTGACAACGAAGACAGCAC
84769 I A TGGTCCTGCAGGGAGGGGACACCTAA
84769 P T A CGCGCCGAGGTGCCATCTGCTGGTY
84769 P C A ATGACGTGGCAGACCGCCATCTGCTGGTY
84769 T T A TCTCACCAGCAGATGGCATAGGTGTCCCCTCCCTGCAGGACCAGC
84769 T C A TCTCACCAGCAGATGGCGTAGGTGTCCCCTCCCTGCAGGACCAGC
TCAACTAGTTCTCAGGCCTTTTTACTACAGAGGGCTGGTCCTGCAGGGAGGGGACACCTA[TC]GCCATCTGCTGGTG
84769 IS [TC] AGAAAGAGAACTGCGGGGAGGGGCTGCTTGGGCGAAGGCCGCCTCC
84775 I A GTTTGAGGGCACAAGGCCTTTCTGCCCT
84775 P A A CGCGCCGAGGATTCAGCTCCCCCTAAAY
84775 P G A ATGACGTGGCAGACGTTCAGCTCCCCCTAAY
84775 T A A GTGTTTTAGGGGGAGCTGAATGGGCAGAAAGGCCTTGTGCCCTCAAACTT
84775 T G A GTGTTTTAGGGGGAGCTGAACGGGCAGAAAGGCCTTGTGCCCTCAAACTT
GACTTCTACGTCATCAGGCACTTCTTCCAAGAAGTTTGAGGGCACAAGGCCTTTCTGCCC[AG]TTCAGCTCCCCCTAA
84775 IS [AG] AACACCAGGGGTGAGGCAGAAGAACTATTTATTTTTCTAGAAACC
84776 I S ACTCTGCATGTTGCTGAGGAAAATTTGGAAACCCTGT
84776 P T S CGCGCCGAGGATTTAGAGTCCTTTCAAGTCCY
84776 P G S ATGACGTGGCAGACCTTTAGAGTCCTTTCAAGTCCY
84776 T T S GGCAGGACTTGAAAGGACTCTAAATCAGGGTTTCCAAATTTTCCTCAGCAACATGCAGAGTCC
84776 T G S GGCAGGACTTGAAAGGACTCTAAAGCAGGGTTTCCAAATTTTCCTCAGCAACATGCAGAGTCC
TACAGGTACATGGTGAGTTTATTCTGGTTCAAAAGTGGCAGGACTTGAAAGGACTCTAAA[TG]CAGGGTTTCCAAATTT
84776 IS [TG] TCCTCAGCAACATGCAGAGTCCTAAGCCCCTTTCCTGGGGTCTT
84781 I S CGGCCCCACCCTCCCACCTCAA
84781 P G S ATGACGTGGCAGACCCACAGTTTCTGATGTGCY
84781 P A S CGCGCCGAGGTCACAGTTTCTGATGTGCY
84781 T G S GAAAGCACATCAGAAACTGTGGTGAGGTGGGAGGGTGGGGCCGGG
84781 T A S GAAAGCACATCAGAAACTGTGATGAGGTGGGAGGGTGGGGCCGGG
ATTCGGTAAAGTCGCCAGGGAAAAAGAGAAGACAGTGTTGAAAGCACATCAGAAACTGTG[GA]TGAGGTGGGAGGGT
84781 IS [GA] GGGGCCGGGGTACAGTCAGGTACCAGGATGCACAGCTGCCCTTTTC
84801 I S CGGAAGGTCTTGGAGGTAAAAACACAACTTGGGGT
84801 P G S ATGACGTGGCAGACCAACTTTTCCATTCTGTTCTGY
84801 P T S CGCGCCGAGGAAACTTTTCCATTCTGTTCTGY
84801 T G S CATGCAGAACAGAATGGAAAAGTTGCCCCAAGTTGTGTTTTTACCTCCAAGACCTTCCGTT
84801 T T S CATGCAGAACAGAATGGAAAAGTTTCCCCAAGTTGTGTTTTTACCTCCAAGACCTTCCGTT
TTCATGAGAGGGGTTTCTGAGAAGTCCCATTGGGGTCATGCAGAACAGAATGGAAAAGTT[GT]CCCCAAGTTGTGTTT
84801 IS [GT] TTACCTCCAAGACCTTCCGTTAGGCTCTGAACCAGTGTTTCAATT
84805 I S CCCTGGCTCTCCTGCCACGCCA
84805 P G S ATGACGTGGCAGACCTCTCCCACCCACTTTY
84805 P A S CGCGCCGAGGTTCTCCCACCCACTTTY
84805 T G S GTGAAAAGTGGGTGGGAGAGGGCGTGGCAGGAGAGCCAGGGAA
84805 T A S GTGAAAAGTGGGTGGGAGAAGGCGTGGCAGGAGAGCCAGGGAA
ATACGTCATGCGGTGGGAAGAGGGTTATGCCCATATGAGATGTGAAAAGTGGGTGGGAGA[GA]GGCGTGGCAGGAG
84805 IS [GA] AGCCAGGGAATGGATTGAGAGTGGGTTCCCAGTGGAGGGGTGCATAT
84816 I A CTACAATGTGATACTTTGGGGTTGTAGTTTTATTTACTTGTGAGATATA
84816 P T A CGCGCCGAGGTTGACTATCTCGATGACTTCTY
84816 P C A ATGACGTGGCAGACCTGACTATCTCGATGACTTCY
84816 T T A GTTTAGAAGTCATCGAGATAGTCAAATATCTCACAAGTAAATAAAACTACAACCCCAAAGTATCACATTGTAGCT
84816 T C A GTTTAGAAGTCATCGAGATAGTCAGATATCTCACAAGTAAATAAAACTACAACCCCAAAGTATCACATTGTAGCT
GGTAATTATGAGCTACAATGTGATACTTTGGGGTTGTAGTTTTATTTACTTGTGAGATAT[TC]TGACTATCTCGATGACT
84816 IS [TC] TCTAAACAACATATAAAGTATAACTTTTTTTGGTGTACTTCTA
84834 I A CCCATCCCTGTCTCTCAACCCCCATCTTGTATT
84834 P C A CGCGCCGAGGCTTTCACCTCTTGGTTCCY
84834 P G A ATGACGTGGCAGACGTTTCACCTCTTGGTTCCY
84834 T C A GGGAGGAACCAAGAGGTGAAAGATACAAGATGGGGGTTGAGAGACAGGGATGGGAA
84834 T G A GGGAGGAACCAAGAGGTGAAACATACAAGATGGGGGTTGAGAGACAGGGATGGGAA
CAACAGATTCATTCTCTCTCCTCTTCTTCCCATCCCTGTCTCTCAACCCCCATCTTGTAT[CG]TTTCACCTCTTGGTTCC
84834 IS [CG] TCCCACAGAGCACTCCAGAAGAGAGGCTGCCCGTGGAAGGGAG
84837 I A GTCTGAGAGCAGAAGCTGGAGAAAAAAGAAAGTTTCGATCAA
84837 P T A CGCGCCGAGGTTGATGCTCCGGACATY
84837 P C A ATGACGTGGCAGACCTGATGCTCCGGACAY
84837 T T A TGAGATGTCCGGAGCATCAATGATCGAAACTTTCTTTTTTCTCCAGCTTCTGCTCTCAGACAA
84837 T C A TGAGATGTCCGGAGCATCAGTGATCGAAACTTTCTTTTTTCTCCAGCTTCTGCTCTCAGACAA
CAGTAACCCAGAGCTTCTTGTCTGAGAGCAGAAGCTGGAGAAAAAAGAAAGTTTCGATCA[TC]TGATGCTCCGGACAT
84837 IS [TC] CTCATCTTTAAAGAACATTGACTCAGAAGTTAGAAAACACATCTG
84854 I A CAACAGCGCAAGAGGCACAGAGGCTA
84854 P T A CGCGCCGAGGTTGAATGCCCTCAGAGGY
84854 P C A ATGACGTGGCAGACCTGAATGCCCTCAGAGGY
84854 T T A GGGACCTCTGAGGGCATTCAAAGCCTCTGTGCCTCTTGCGCTGTTGCT

FIGURE 129D

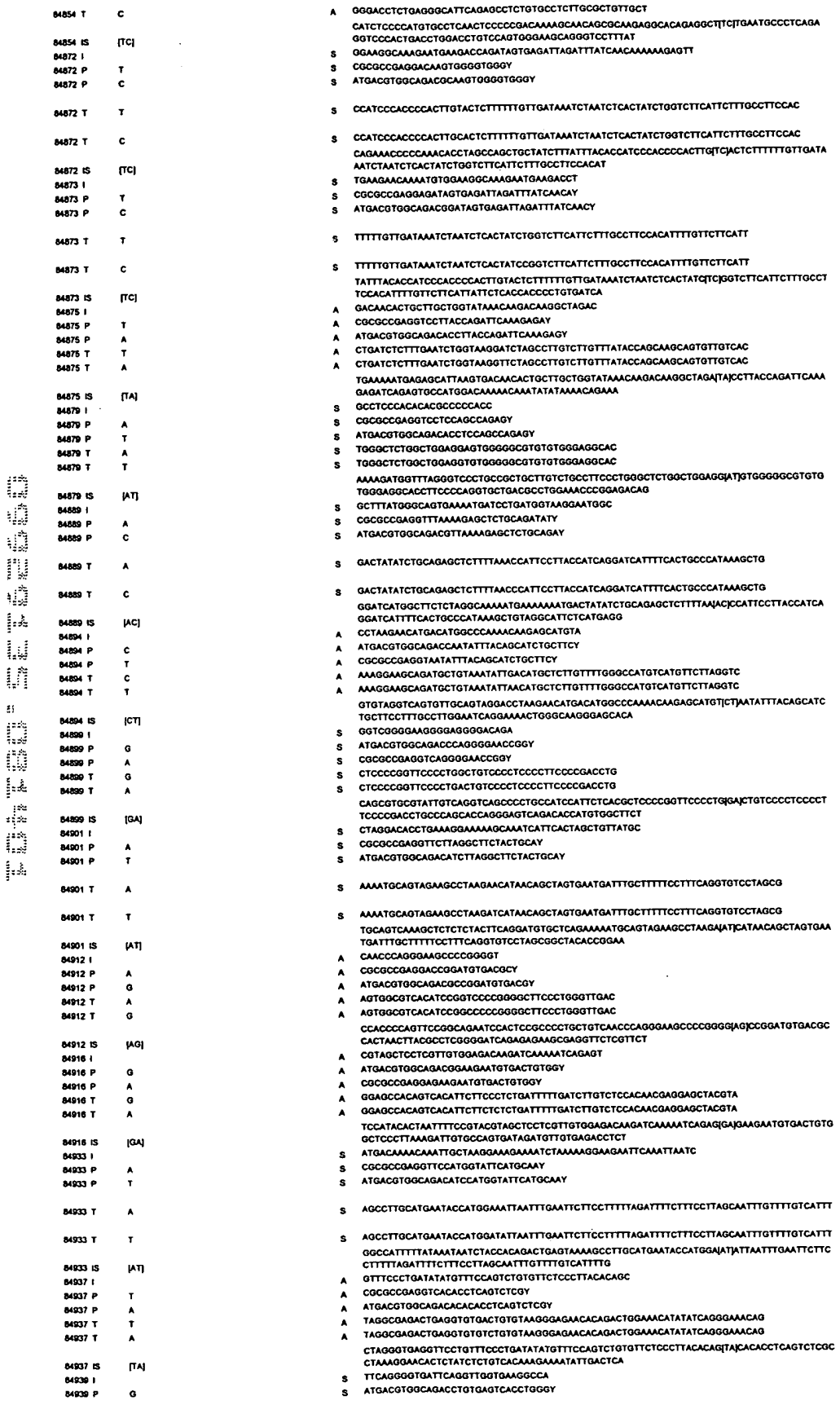
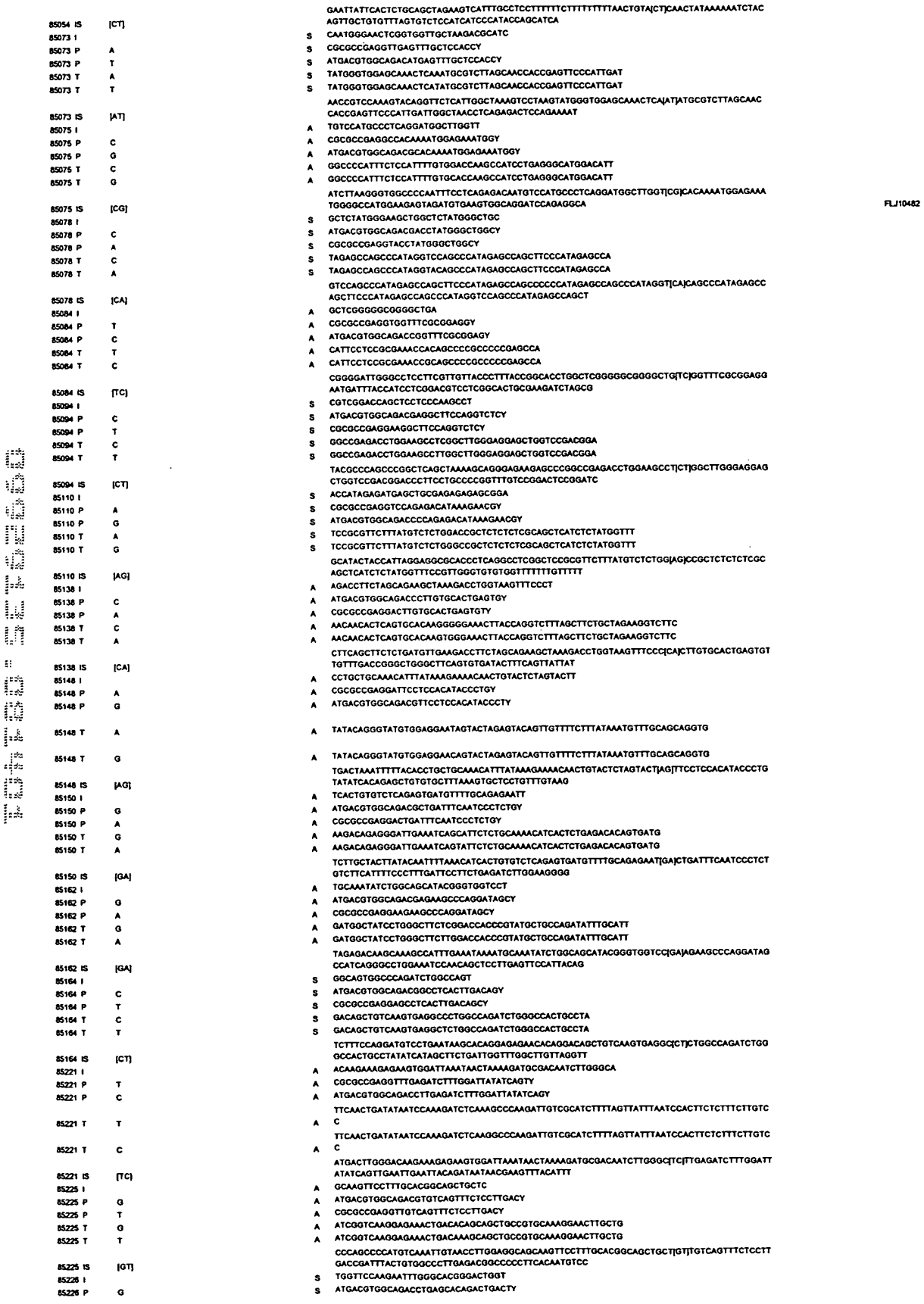

84854 T C A GGGACCTCTGAGGGCATTCAGAGCCTCTGTGCCTCTTGCGCTGTTGCT
CATCTCCCCATGTGCCTCAACTCCCCCGACAAAAGCAACAGCGCAAGAGGCACAGAGGCT[TC]TGAATGCCCTCAGA
84854 IS [TC] GGTCCCACTGACCTGGACCTGTCCAGTGGGAAGCAGGGTCCTTTAT
84872 I S GGAAGGCAAAGAATGAAGACCAGATAGTGAGATTAGATTTATCAACAAAAAAGAGTT
84872 P T S CGCGCCGAGGACAAGTGGGGTGGGY
84872 P C S ATGACGTGGCAGACGCAAGTGGGGTGGGY
84872 T T S CCATCCCACCCCACTTGTACTCTTTTTTGTTGATAAATCTAATCTCACTATCTGGTCTTCATTCTTTGCCTTCCAC
84872 T C S CCATCCCACCCCACTTGCACTCTTTTTTGTTGATAAATCTAATCTCACTATCTGGTCTTCATTCTTTGCCTTCCAC
CAGAAACCCCCAAACACCTAGCCAGCTGCTATCTTTATTTACACCATCCCACCCCACTTG[TC]ACTCTTTTTTGTTGATA
84872 IS [TC] AATCTAATCTCACTATCTGGTCTTCATTCTTTGCCTTCCACAT
84873 I S TGAAGAACAAAATGTGGAAGGCAAAGAATGAAGACCT
84873 P T S CGCGCCGAGGAGATAGTGAGATTAGATTTATCAACAY
84873 P C S ATGACGTGGCAGACGGATAGTGAGATTAGATTTATCAACY
84873 T T S TTTTTGTTGATAAATCTAATCTCACTATCTGGTCTTCATTCTTTGCCTTCCACATTTTGTTCTTCATT
84873 T C S TTTTTGTTGATAAATCTAATCTCACTATCCGGTCTTCATTCTTTGCCTTCCACATTTTGTTCTTCATT
TATTTACACCATCCCACCCCACTTGTACTCTTTTTTGTTGATAAATCTAATCTCACTATC[TC]GGTCTTCATTCTTTGCCT
84873 IS [TC] TCCACATTTTGTTCTTCATTATTCTCACCACCCCTGTGATCA
84875 I A GACAACACTGCTTGCTGGTATAAACAAGACAAGGCTAGAC
84875 P T A CGCGCCGAGGTCCTTACCAGATTCAAAGAGAY
84875 P A A ATGACGTGGCAGACACCTTACCAGATTCAAAGAGY
84875 T T A CTGATCTCTTTGAATCTGGTAAGGATCTAGCCTTGTCTTGTTTATACCAGCAAGCAGTGTTGTCAC
84875 T A A CTGATCTCTTTGAATCTGGTAAGGTTCTAGCCTTGTCTTGTTTATACCAGCAAGCAGTGTTGTCAC
TGAAAAATGAGAGCATTAAGTGACAACACTGCTTGCTGGTATAAACAAGACAAGGCTAGA[TA]CCTTACCAGATTCAAA
84875 IS [TA] GAGATCAGAGTGCCATGGACAAAAACAAATATATAAAACAGAAA
84879 I S GCCTCCCACACACGCCCCCACC
84879 P A S CGCGCCGAGGTCCTCCAGCCAGAGY
84879 P T S ATGACGTGGCAGACACCTCCAGCCAGAGY
84879 T A S TGGGCTCTGGCTGGAGGAGTGGGGGCGTGTGTGGGAGGCAC
84879 T T S TGGGCTCTGGCTGGAGGTGTGGGGGCGTGTGTGGGAGGCAC
AAAAGATGGTTTAGGGTCCCTGCCGCTGCTTGTCTGCCTTCCCTGGGCTCTGGCTGGAGG[AT]GTGGGGGCGTGTG
84879 IS [AT] TGGGAGGCACCTTCCCCAGGTGCTGACGCCTGGAAACCCGGAGACAG
84889 I S GCTTTATGGGCAGTGAAAATGATCCTGATGGTAAGGAATGGC
84889 P A S CGCGCCGAGGTTTAAAAGAGCTCTGCAGATATY
84889 P C S ATGACGTGGCAGACGTTAAAAGAGCTCTGCAGAY
84889 T A S GACTATATCTGCAGAGCTCTTTTAAACCATTCCTTACCATCAGGATCATTTTCACTGCCCATAAAGCTG
84889 T C S GACTATATCTGCAGAGCTCTTTTAACCCATTCCTTACCATCAGGATCATTTTCACTGCCCATAAAGCTG
GGATCATGGCTTCTCTAGGCAAAAATGAAAAAAATGACTATATCTGCAGAGCTCTTTTAA[AC]CCATTCCTTACCATCA
84889 IS [AC] GGATCATTTTCACTGCCCATAAAGCTGTAGGCATTCTCATGAGG
84894 I A CCTAAGAACATGACATGGCCCAAAACAAGAGCATGTA
84894 P C A ATGACGTGGCAGACCAATATTTACAGCATCTGCTTCY
84894 P T A CGCGCCGAGGTAATATTTACAGCATCTGCTTCY
84894 T C A AAAGGAAGCAGATGCTGTAAATATTGACATGCTCTTGTTTTGGGCCATGTCATGTTCTTAGGTC
84894 T T A AAAGGAAGCAGATGCTGTAAATATTAACATGCTCTTGTTTTGGGCCATGTCATGTTCTTAGGTC
GTGTAGGTCAGTGTTGCAGTAGGACCTAAGAACATGACATGGCCCAAAACAAGAGCATGT[CT]AATATTTACAGCATC
84894 IS [CT] TGCTTCCTTTGCCTTGGAATCAGGAAAACTGGGCAAGGGAGCACA
84899 I S GGTCGGGGAAGGGGAGGGGACAGA
84899 P G S ATGACGTGGCAGACCCAGGGGAACCGGY
84899 P A S CGCGCCGAGGTCAGGGGAACCGGY
84899 T G S CTCCCCGGTTCCCCTGGCTGTCCCCTCCCCTTCCCCGACCTG
84899 T A S CTCCCCGGTTCCCCTGACTGTCCCCTCCCCTTCCCCGACCTG
CAGCGTGCGTATTGTCAGGTCAGCCCCTGCCATCCATTCTCACGCTCCCCGGTTCCCCTG[GA]CTGTCCCCTCCCCT
84899 IS [GA] TCCCCGACCTGCCCAGCACCAGGGAGTCAGACACCATGTGGCTTCT
84901 I S CTAGGACACCTGAAAGGAAAAAGCAAATCATTCACTAGCTGTTATGC
84901 P A S CGCGCCGAGGTTCTTAGGCTTCTACTGCAY
84901 P T S ATGACGTGGCAGACATCTTAGGCTTCTACTGCAY
84901 T A S AAAATGCAGTAGAAGCCTAAGAACATAACAGCTAGTGAATGATTTGCTTTTTCCTTTCAGGTGTCCTAGCG
84901 T T S AAAATGCAGTAGAAGCCTAAGATCATAACAGCTAGTGAATGATTTGCTTTTTCCTTTCAGGTGTCCTAGCG
TGCAGTCAAAGCTCTCTCTACTTCAGGATGTGCTCAGAAAAATGCAGTAGAAGCCTAAGA[AT]CATAACAGCTAGTGAA
84901 IS [AT] TGATTTGCTTTTTCCTTTCAGGTGTCCTAGCGGCTACACCGGAA
84912 I A CAACCCAGGGAAGCCCCGGGGT
84912 P A A CGCGCCGAGGACCGGATGTGACGCY
84912 P G A ATGACGTGGCAGACGCCGGATGTGACGY
84912 T A A AGTGGCGTCACATCCGGTCCCCGGGGCTTCCCTGGGTTGAC
84912 T G A AGTGGCGTCACATCCGGCCCCCGGGGCTTCCCTGGGTTGAC
CCACCCCAGTTCCGGCAGAATCCACTCCGCCCCTGCTGTCAACCCAGGGAAGCCCCGGGG[AG]CCGGATGTGACGC
84912 IS [AG] CACTAACTTACGCCTCGGGGATCAGAGAGAAGCGAGGTTCTCGTTCT
84916 I A CGTAGCTCCTCGTTGTGGAGACAAGATCAAAAATCAGAGT
84916 P G A ATGACGTGGCAGACGGAAGAATGTGACTGTGGY
84916 P A A CGCGCCGAGGAGAAGAATGTGACTGTGGY
84916 T G A GGAGCCACAGTCACATTCTTCCCTCTGATTTTTGATCTTGTCTCCACAACGAGGAGCTACGTA
84916 T A A GGAGCCACAGTCACATTCTTCTCTCTGATTTTTGATCTTGTCTCCACAACGAGGAGCTACGTA
TCCATACACTAATTTTCCGTACGTAGCTCCTCGTTGTGGAGACAAGATCAAAAATCAGAG[GA]GAAGAATGTGACTGTG
84916 IS [GA] GCTCCCTTAAAGATTGTGCCAGTGATAGATGTTGTGAGACCTCT
84933 I S ATGACAAAACAAATTGCTAAGGAAAGAAAATCTAAAAAGGAAGAATTCAAATTAATC
84933 P A S CGCGCCGAGGTTCCATGGTATTCATGCAAY
84933 P T S ATGACGTGGCAGACATCCATGGTATTCATGCAAY
84933 T A S AGCCTTGCATGAATACCATGGAAATTAATTTGAATTCTTCCTTTTTAGATTTTCTTTCCTTAGCAATTTGTTTTGTCATTT
84933 T T S AGCCTTGCATGAATACCATGGATATTAATTTGAATTCTTCCTTTTTAGATTTTCTTTCCTTAGCAATTTGTTTTGTCATTT
GGCCATTTTTATAAATAATCTACCACAGACTGAGTAAAAGCCTTGCATGAATACCATGGA[AT]ATTAATTTGAATTCTTC
84933 IS [AT] CTTTTTAGATTTTCTTTCCTTAGCAATTTGTTTTGTCATTTTG
84937 I A GTTTCCCTGATATATGTTTCCAGTCTGTGTTCTCCCTTACACAGC
84937 P T A CGCGCCGAGGTCACACCTCAGTCTCGY
84937 P A A ATGACGTGGCAGACACACCTCAGTCTCGY
84937 T T A TAGGCGAGACTGAGGTGTGACTGTGTAAGGGAGAACACAGACTGGAAACATATATCAGGGAAACAG
84937 T A A TAGGCGAGACTGAGGTGTGTCTGTGTAAGGGAGAACACAGACTGGAAACATATATCAGGGAAACAG
CTAGGGTGAGGTTCCTGTTTCCCTGATATATGTTTCCAGTCTGTGTTCTCCCTTACACAG[TA]CACACCTCAGTCTCGC
84937 IS [TA] CTAAAGGAACACTCTATCTCTGTCACAAAGAAAATATTGACTCA
84939 I S TTCAGGGGTGATTCAGGTTGGTGAAGGCCA
84939 P G S ATGACGTGGCAGACCTGTGAGTCACCTGGGY

FIGURE 129D

84939 P	A	S	CGCGCCGAGGTTGTGAGTCACCTGGGY	
84939 T	G	S	CAGCCCCAGGTGACTCACAGGGCCTTCACCAACCTGAATCACCCCTGAACA	
84939 T	A	S	CAGCCCCAGGTGACTCACAAGGCCTTCACCAACCTGAATCACCCCTGAACA	
84939 IS	[GA]		GAGGCTGGGTCGTGGCCTAAGGAGGAGAGGAAACGTTTCACCAGCCCCAGGTGACTCACA[GA]GGCCTTCACCAAC CTGAATCACCCCTGAACAAAGCTCTGCCTGCGTCTGGGCAACTGAAC	
84947 I		S	CCTGAATGTTTGGAAAGTTCTAGCACCTCAAACCATTTGCT	
84947 P	T	S	CGCGCCGAGGATCTATGAAAGCAGAACTCTATTY	
84947 P	C	S	ATGACGTGGCAGACGTCTATGAAAGCAGAACTCTATY	
84947 T	T	S	AAAAAATAGAGTTCTGCTTTCATAGATGCAAATGGTTTGAGGTGCTAGAACTTTCCAAACATTCAGGCT	
84947 T	C	S	AAAAAATAGAGTTCTGCTTTCATAGACGCAAATGGTTTGAGGTGCTAGAACTTTCCAAACATTCAGGCT	
84947 IS	[TC]		CTCCCACAGAGAACTCACAAGCTAAACCAAAGGGAAAAAATAGAGTTCTGCTTTCATAGA[TC]GCAAATGGTTTGAGGT GCTAGAACTTTCCAAACATTCAGGCTGACACTGAAGTGGTAAGA	
84953 I		A	CCCCATGGCCCTGTGCTGCCACA	
84953 P	C	A	ATGACGTGGCAGACCGGGTAGCCTCAAGCY	
84953 P	T	A	CGCGCCGAGGTGGGTAGCCTCAAGCY	
84953 T	C	A	CCGAGCTTGAGGCTACCCGGTGGCAGCACAGGGCCATGGGGCT	
84953 T	T	A	CCGAGCTTGAGGCTACCCAGTGGCAGCACAGGGCCATGGGGCT	
84953 IS	[CT]		AGCTGTAGTCAAGGCTGGATCCTGACAGATTCTGGGAGCCCCATGGCCCTGTGCTGCCAC[CT]GGGTAGCCTCAAGC TCGGGCTCTGACCTTGATCCCGTGCCCTGAAACAGGCCAAGGAGCT	
84959 I		S	CCTTCCCCTCCTGGGACCATTCTACCTGTT	
84959 P	C	S	ATGACGTGGCAGACGTTCTTTGACCCTCGGAY	
84959 P	T	S	CGCGCCGAGGATTCTTTGACCCTCGGAY	
84959 T	C	S	CTGCTCCGAGGGTCAAAGAACACAGGTAGAATGGTCCCAGGAGGGGAAGGGA	
84959 T	T	S	CTGCTCCGAGGGTCAAAGAATACAGGTAGAATGGTCCCAGGAGGGGAAGGGA	
84959 IS	[CT]		ATCAGGGCAGCTGCAAGCTTGCCAGTTGTCTTGCCTGTCCCTGCTCCGAGGGTCAAAGAA[CT]ACAGGTAGAATGGT CCCAGGAGGGGAAGGGAGAGACAGATCCAGGCTGGCCTCCAAGCTC	
84965 I		S	CCAGATCTGTTTTAGCTACTTGCAGTCTAAAATGACACA	
84965 P	G	S	ATGACGTGGCAGACCCGGAAACAAACATTTCAGY	
84965 P	A	S	CGCGCCGAGGTCGGAAACAAACATTTCAGY	
84965 T	G	S	ATTGCTGAAATGTTTGTTTCCGGGTGTCATTTTAGACTGCAAGTAGCTAAAACAGATCTGGCT	
84965 T	A	S	ATTGCTGAAATGTTTGTTTCCGAGTGTCATTTTAGACTGCAAGTAGCTAAAACAGATCTGGCT	
84965 IS	[GA]		TGTTTCCAGCACTAGCTGAATAAGATTCCAATAAACATATTGCTGAAATGTTTGTTTCCG[GA]GTGTCATTTTAGACTGC AAGTAGCTAAAACAGATCTGGCTTCTATATATAGATTCCGCAT	
84995 I		S	TGGGCATTTTGGATATTGGCTTCCCCAGGAGT	
84995 P	C	S	ATGACGTGGCAGACGGTCTGTGGGTGAGCY	
84995 P	T	S	CGCGCCGAGGAGTCTGTGGGTGAGCY	
84995 T	C	S	TATGGCTCACCCACAGACCCTCCTGGGGAAGCCAATATCCAAAATGCCCAGG	
84995 T	T	S	TATGGCTCACCCACAGACTCTCCTGGGGAAGCCAATATCCAAAATGCCCAGG	
84995 IS	[CT]		GAGTGAGCCTGTCAGGCAGGGCCAAGGAGGTTACAGGAAGGGTATGGCTCACCCACAGAC[CT]CTCCTGGGGAAGC CAATATCCAAAATGCCCAGGCACAGGAACTGTTAGGTCACTTTCATC	
85000 I		S	GGCATTACTAGGTTTCCCTTTTTGTCCCAAGGTGGA	
85000 P	G	S	ATGACGTGGCAGACCGCTGGCTCCTAAAAAGY	
85000 P	A	S	CGCGCCGAGGTGCTGGCTCCTAAAAAGY	
85000 T	G	S	CCACCTTTTTAGGAGCCAGCGCCACCTTGGGACAAAAAGGGAAACCTAGTAATGCCAT	
85000 T	A	S	CCACCTTTTTAGGAGCCAGCACCACCTTGGGACAAAAAGGGAAACCTAGTAATGCCAT	
85000 IS	[GA]		GCCGGGCCACCTGCCCGACCCACATGGGAGAGAAAAGCTGCCACCTTTTTAGGAGCCAGC[GA]CCACCTTGGGACAA AAAGGGAAACCTAGTAATGCCATCACATGGAGGACGAGGCCCAGCT	
85005 I		A	GCCGCCCCTGCACTCAGGTAACAC	
85005 P	A	A	CGCGCCGAGGAGCTCTGGGTGGTGY	
85005 P	T	A	ATGACGTGGCAGACTGCTCTGGGTGGTGY	
85005 T	A	A	GCTGCACCACCCAGAGCTTGTTACCTGAGTGCAGGGGCGGCGA	
85005 T	T	A	GCTGCACCACCCAGAGCATGTTACCTGAGTGCAGGGGCGGCGA	
85005 IS	[AT]		CGATGAGGCGGCGGCGGGCCGGCCCTGGGCTGGGGTCGCCGCCCCTGCACTCAGGTAACA[AT]GCTCTGGGTGGT GCAGCTCGGACGCTTCCGTTTCCTAACTTTTAGACTCTTCCCTGAAAA	
85006 I		S	CTGTAGTGTAGCTACAGTTGTGCGTTTGTGAAATGGCTTAT	
85006 P	C	S	ATGACGTGGCAGACGCTTTCCATGTTGCTGAY	
85006 P	T	S	CGCGCCGAGGACTTTCCATGTTGCTGAGY	
85006 T	C	S	TCCTCTCAGCAACATGGAAAGCTAAGCCATTTCACAAACGCACAACTGTAGCTACACTACAGCC	
85006 T	T	S	TCCTCTCAGCAACATGGAAAGTTAAGCCATTTCACAAACGCACAACTGTAGCTACACTACAGCC	
85006 IS	[CT]		CCCTACAGATCATTCAGATGCCCGGGACCATGTCCAGGTTCCTCTCAGCAACATGGAAAG[CT]TAAGCCATTTCACAA ACGCACAACTGTAGCTACACTACAGCCCCCCATGCCCAGGGCACA	
85007 I		S	GCATAGCCACACTGCCCGGCACGA	
85007 P	G	S	ATGACGTGGCAGACCCACATCCACCCCTY	
85007 P	A	S	CGCGCCGAGGTCACATCCACCCCTGY	
85007 T	G	S	CAGACAGGGGTGGATGTGGCGTGCCGGGCAGTGTGGCTATGCAA	
85007 T	A	S	CAGACAGGGGTGGATGTGACGTGCCGGGCAGTGTGGCTATGCAA	
85007 IS	[GA]		AACTGAAGCGTATACAGCGCTGTTGTCAGAACAACTCATGTGCAGACAGGGGTGGATGTG[GA]CGTGCCGGGCAGTG TGGCTATGCAATCAGACTGGGATGAAGAGAATACAAATACTTACCA	DATF1
85019 I		S	GTTCCGCAGATAGGAGTAGTCTTTATTGTCCTGTACGGTCT	
85019 P	C	S	ATGACGTGGCAGACGGTGGCAGTGCTATTCY	
85019 P	T	S	CGCGCCGAGGAGTGGCAGTGCTATTCTY	
85019 T	C	S	TCTCAGAATAGCACTGCCACCGACCGTACAGGACAATAAAGACTACTCCTATCTGCGGAACAA	
85019 T	T	S	TCTCAGAATAGCACTGCCACTGACCGTACAGGACAATAAAGACTACTCCTATCTGCGGAACAA	
85019 IS	[CT]		CAGCAACATCCAAAATACTGATATTCTAAGCATCTACAGATCTCAGAATAGCACTGCCAC[CT]GACCGTACAGGACAAT AAAGACTACTCCTATCTGCGGAACAACTAGCTTTCTATTTAGTT	
85020 I		S	GCTGGGACAGAGGCTTGAGAGAACTAACGGA	
85020 P	G	S	ATGACGTGGCAGACCTCGGTGCCTTCTCCY	
85020 P	A	S	CGCGCCGAGGTTCGGTGCCTTCTCCY	
85020 T	G	S	CCAGGGAGAAGGCACCGAGCCGTTAGTTCTCTCAAGCCTCTGTCCCAGCGG	
85020 T	A	S	CCAGGGAGAAGGCACCGAACCGTTAGTTCTCTCAAGCCTCTGTCCCAGCGG	
85020 IS	[GA]		GGCTACCAAATGCCTTCGCAGTGCAGAGACGATGGTCTGAGACCAGGGAGAAGGCACCGA[GA]CCGTTAGTTCTCTC AAGCCTCTGTCCCAGCGGAGCTAGCGGCCTTATGACCTTCGGTTGC	
85036 I		S	CCACTGCAGCTGCCTGCACCCAT	
85036 P	T	S	CGCGCCGAGGAGGCACATGGCCTTY	
85036 P	C	S	ATGACGTGGCAGACGGGCACATGGCCTY	
85036 T	T	S	TCTGAAGGCCATGTGCCTTGGGTGCAGGCAGCTGCAGTGGCA	
85036 T	C	S	TCTGAAGGCCATGTGCCCTGGGTGCAGGCAGCTGCAGTGGCA	
85036 IS	[TC]		CTTACTGGACCCAGGAGACTGGGACCCCAGGGGGAAAGAGCAGTCTGAAGGCCATGTGCC[TC]TGGGTGCAGGCAG CTGCAGTGGCATGACAGGGCAGAGTTGATAAACTCAGATTGGCCAGG	
85054 I		A	ACTCTGCAGCTAGAAGTCATTTGCCTCCTTTTTTCTTTTTTTTTAACTGTAA	
85054 P	C	A	ATGACGTGGCAGACCCAACTATAAAAAATCTACAGTTGCY	
85054 P	T	A	CGCGCCGAGGTCAACTATAAAAAATCTACAGTTGCY	
85054 T	C	A	CACAGCAACTGTAGATTTTTTATAGTTGGTACAGTTAAAAAAAAAGAAAAAAGGAGGCAAATGACTTCTAGCTGCAGAG TGA	
85054 T	T	A	CACAGCAACTGTAGATTTTTTATAGTTGATACAGTTAAAAAAAAAGAAAAAAGGAGGCAAATGACTTCTAGCTGCAGAG TGA	

FIGURE 129D


GAATTATTCACTCTGCAGCTAGAAGTCATTTGCCTCCTTTTTTCTTTTTTTTTAACTGTA[CT]CAACTATAAAAAATCTAC
85054 IS [CT] AGTTGCTGTGTTTAGTGTCTCCATCATCCCATACCAGCATCA
85073 I S CAATGGGAACTCGGTGGTTGCTAAGACGCATC
85073 P A S CGCGCCGAGGTTGAGTTTGCTCCACCY
85073 P T S ATGACGTGGCAGACATGAGTTTGCTCCACCY
85073 T A S TATGGGTGGAGCAAACTCAAATGCGTCTTAGCAACCACCGAGTTCCCATTGAT
85073 T T S TATGGGTGGAGCAAACTCATATGCGTCTTAGCAACCACCGAGTTCCCATTGAT
AACCGTCCAAAGTACAGGTTCTCATTGGCTAAAGTCCTAAGTATGGGTGGAGCAAACTCA[AT]ATGCGTCTTAGCAAC
85073 IS [AT] CACCGAGTTCCCATTGATTGGCTAACCTCAGAGACTCCAGAAAAT
85075 I A TGTCCATGCCCTCAGGATGGCTTGGTT
85075 P C A CGCGCCGAGGCCACAAAATGGAGAAATGGY
85075 P G A ATGACGTGGCAGACGCACAAAATGGAGAAATGGY
85075 T C A GGCCCCATTTCTCCATTTTGTGGACCAAGCCATCCTGAGGGCATGGACATT
85075 T G A GGCCCCATTTCTCCATTTTGTGCACCAAGCCATCCTGAGGGCATGGACATT
ATCTTAAGGGTGGCCCCAATTTCCTCAGAGACAATGTCCATGCCCTCAGGATGGCTTGGT[CG]CACAAAATGGAGAAA
85075 IS [CG] TGGGGCCATGGAAGAGTAGATGTGAAGTGGCAGGATCCAGAGGCA FLJ10482
85078 I S GCTCTATGGGAAGCTGGCTCTATGGGCTGC
85078 P C S ATGACGTGGCAGACGACCTATGGGCTGGCY
85078 P A S CGCGCCGAGGTACCTATGGGCTGGCY
85078 T C S TAGAGCCAGCCCATAGGTCCAGCCCATAGAGCCAGCTTCCCATAGAGCCA
85078 T A S TAGAGCCAGCCCATAGGTACAGCCCATAGAGCCAGCTTCCCATAGAGCCA
GTCCAGCCCATAGAGCCAGCTTCCCATAGAGCCAGCCCCCCATAGAGCCAGCCCATAGGT[CA]CAGCCCATAGAGCC
85078 IS [CA] AGCTTCCCATAGAGCCAGCCCATAGGTCCAGCCCATAGAGCCAGCT
85084 I A GCTCGGGGGCGGGGCTGA
85084 P T A CGCGCCGAGGTGGTTTCGCGGAGGY
85084 P C A ATGACGTGGCAGACCGGTTTCGCGGAGY
85084 T T A CATTCCTCCGCGAAACCACAGCCCCGCCCCCGAGCCA
85084 T C A CATTCCTCCGCGAAACCGCAGCCCCGCCCCCGAGCCA
CGGGGATTGGGCCTCCTTCGTTGTTACCCTTTACCGGCACCTGGCTCGGGGGCGGGGCTG[TC]GGTTTCGCGGAGG
85084 IS [TC] AATGATTTACCATCCTCGGACGTCCTCGGCACTGCGAAGATCTAGCG
85094 I S CGTCGGACCAGCTCCTCCCAAGCCT
85094 P C S ATGACGTGGCAGACGAGGCTTCCAGGTCTCY
85094 P T S CGCGCCGAGGAAGGCTTCCAGGTCTCY
85094 T C S GGCCGAGACCTGGAAGCCTCGGCTTGGGAGGAGCTGGTCCGACGGA
85094 T T S GGCCGAGACCTGGAAGCCTTGGCTTGGGAGGAGCTGGTCCGACGGA
TACGCCCAGCCCGGCTCAGCTAAAAGCAGGGAGAAGAGCCCGGCCGAGACCTGGAAGCCT[CT]GGCTTGGGAGGAG
85094 IS [CT] CTGGTCCGACGGACCCTTCCTGCCCCGGTTTGTCCGGACTCCGGATC
85110 I S ACCATAGAGATGAGCTGCGAGAGAGAGCGGA
85110 P A S CGCGCCGAGGTCCAGAGACATAAAGAACGY
85110 P G S ATGACGTGGCAGACCCCAGAGACATAAAGAACGY
85110 T A S TCCGCGTTCTTTATGTCTCTGGACCGCTCTCTCTCGCAGCTCATCTCTATGGTTT
85110 T G S TCCGCGTTCTTTATGTCTCTGGGCCGCTCTCTCTCGCAGCTCATCTCTATGGTTT
GCATACTACCATTAGGAGGCGCACCCTCAGGCCTCGGCTCCGCGTTCTTTATGTCTCTGG[AG]CCGCTCTCTCTCGC
85110 IS [AG] AGCTCATCTCTATGGTTTCCGTTGGGTGTGTGGTTTTTTTGTTTTT
85138 I A AGACCTTCTAGCAGAAGCTAAAGACCTGGTAAGTTTCCCT
85138 P C A ATGACGTGGCAGACCCTTGTGCACTGAGTGY
85138 P A A CGCGCCGAGGACTTGTGCACTGAGTGTY
85138 T C A AACAACACTCAGTGCACAAGGGGGAAACTTACCAGGTCTTTAGCTTCTGCTAGAAGGTCTTC
85138 T A A AACAACACTCAGTGCACAAGTGGGAAACTTACCAGGTCTTTAGCTTCTGCTAGAAGGTCTTC
CTTCAGCTTCTCTGATGTTGAAGACCTTCTAGCAGAAGCTAAAGACCTGGTAAGTTTCCC[CA]CTTGTGCACTGAGTGT
85138 IS [CA] TGTTTGACCGGGCTGGGCTTCAGTGTGATACTTTCAGTTATTAT
85148 I A CCTGCTGCAAACATTTATAAAGAAAACAACTGTACTCTAGTACTT
85148 P A A CGCGCCGAGGATTCCTCCACATACCCTGY
85148 P G A ATGACGTGGCAGACGTTCCTCCACATACCCTY
85148 T A A TATACAGGGTATGTGGAGGAATAGTACTAGAGTACAGTTGTTTTCTTTATAAATGTTTGCAGCAGGTG
85148 T G A TATACAGGGTATGTGGAGGAACAGTACTAGAGTACAGTTGTTTTCTTTATAAATGTTTGCAGCAGGTG
TGACTAAATTTTTACACCTGCTGCAAACATTTATAAAGAAAACAACTGTACTCTAGTACT[AG]TTCCTCCACATACCCTG
85148 IS [AG] TATATCACAGAGCTGTGTGCTTTAAAGTGCTCCTGTTTGTAAG
85150 I A TCACTGTGTCTCAGAGTGATGTTTTGCAGAGAATT
85150 P G A ATGACGTGGCAGACGCTGATTTCAATCCCTCTGY
85150 P A A CGCGCCGAGGACTGATTTCAATCCCTCTGY
85150 T G A AAGACAGAGGGATTGAAATCAGCATTCTCTGCAAAACATCACTCTGAGACACAGTGATG
85150 T A A AAGACAGAGGGATTGAAATCAGTATTCTCTGCAAAACATCACTCTGAGACACAGTGATG
TCTTGCTACTTATACAATTTTAAACATCACTGTGTCTCAGAGTGATGTTTTGCAGAGAAT[GA]CTGATTTCAATCCCTCT
85150 IS [GA] GTCTTCATTTTCCCTTTGATTCCTTCTGAGATCTTGGAAGGGG
85162 I A TGCAAATATCTGGCAGCATACGGGTGGTCCT
85162 P G A ATGACGTGGCAGACGAGAAGCCCAGGATAGCY
85162 P A A CGCGCCGAGGAAGAAGCCCAGGATAGCY
85162 T G A GATGGCTATCCTGGGCTTCTCGGACCACCCGTATGCTGCCAGATATTTGCATT
85162 T A A GATGGCTATCCTGGGCTTCTTGGACCACCCGTATGCTGCCAGATATTTGCATT
TAGAGACAAGCAAAGCCATTTGAAATAAAATGCAAATATCTGGCAGCATACGGGTGGTCC[GA]AGAAGCCCAGGATAG
85162 IS [GA] CCATCAGGGCCTGGAAATCCAACAGCTCCTTGAGTTCCATTACAG
85164 I S GGCAGTGGCCCAGATCTGGCCAGT
85164 P C S ATGACGTGGCAGACGGCCTCACTTGACAGY
85164 P T S CGCGCCGAGGAGCCTCACTTGACAGCY
85164 T C S GACAGCTGTCAAGTGAGGCCCTGGCCAGATCTGGGCCACTGCCTA
85164 T T S GACAGCTGTCAAGTGAGGCTCTGGCCAGATCTGGGCCACTGCCTA
TCTTTCCAGGATGTCCTGAATAAGCACAGGAGAGAACACAGGACAGCTGTCAAGTGAGGC[CT]CTGGCCAGATCTGG
85164 IS [CT] GCCACTGCCTATATCATAGCTTCTGATTGGTTTGGCTTGTTAGGTT
85221 I A ACAAGAAAGAGAAGTGGATTAAATAACTAAAAGATGCGACAATCTTGGGCA
85221 P T A CGCGCCGAGGTTTGAGATCTTTGGATTATATCAGTY
85221 P C A ATGACGTGGCAGACCTTGAGATCTTTGGATTATATCAGY
TTCAACTGATATAATCCAAAGATCTCAAAGCCCAAGATTGTCGCATCTTTTAGTTATTTAATCCACTTCTCTTTCTTGTC
85221 T T A C
TTCAACTGATATAATCCAAAGATCTCAAGGCCCAAGATTGTCGCATCTTTTAGTTATTTAATCCACTTCTCTTTCTTGTC
85221 T C A C
ATGACTTGGGACAAGAAAGAGAAGTGGATTAAATAACTAAAAGATGCGACAATCTTGGGC[TC]TTGAGATCTTTGGATT
85221 IS [TC] ATATCAGTTGAATTGAATTACAGATAATAACGAAGTTTACATTT
85225 I A GCAAGTTCCTTTGCACGGCAGCTGCTC
85225 P G A ATGACGTGGCAGACGTGTCAGTTTCTCCTTGACY
85225 P T A CGCGCCGAGGTTGTCAGTTTCTCCTTGACY
85225 T G A ATCGGTCAAGGAGAAACTGACACAGCAGCTGCCGTGCAAAGGAACTTGCTG
85225 T T A ATCGGTCAAGGAGAAACTGACAAAGCAGCTGCCGTGCAAAGGAACTTGCTG
CCCAGCCCCATGTCAAATTGTAACCTTGGAGGCAGCAAGTTCCTTTGCACGGCAGCTGC[TG]TGTCAGTTTCTCCTT
85225 IS [GT] GACCGATTTACTGTGGCCCTTGAGACGGCCCCCTTCACAATGTCC
85226 I S TGGTTCCAAGAATTTGGGCACGGGACTGGT
85226 P G S ATGACGTGGCAGACCTGAGCACAGACTGACTY

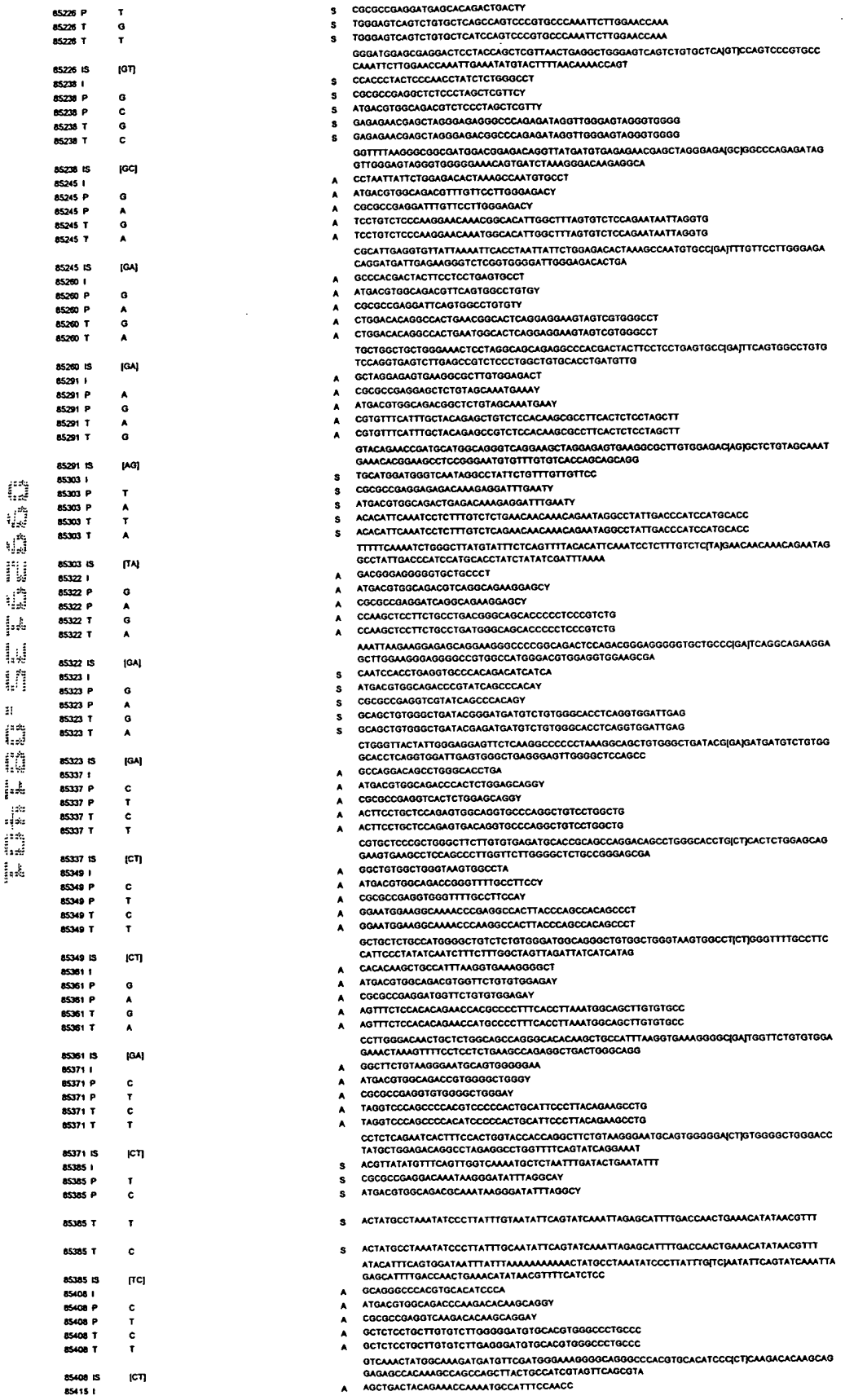
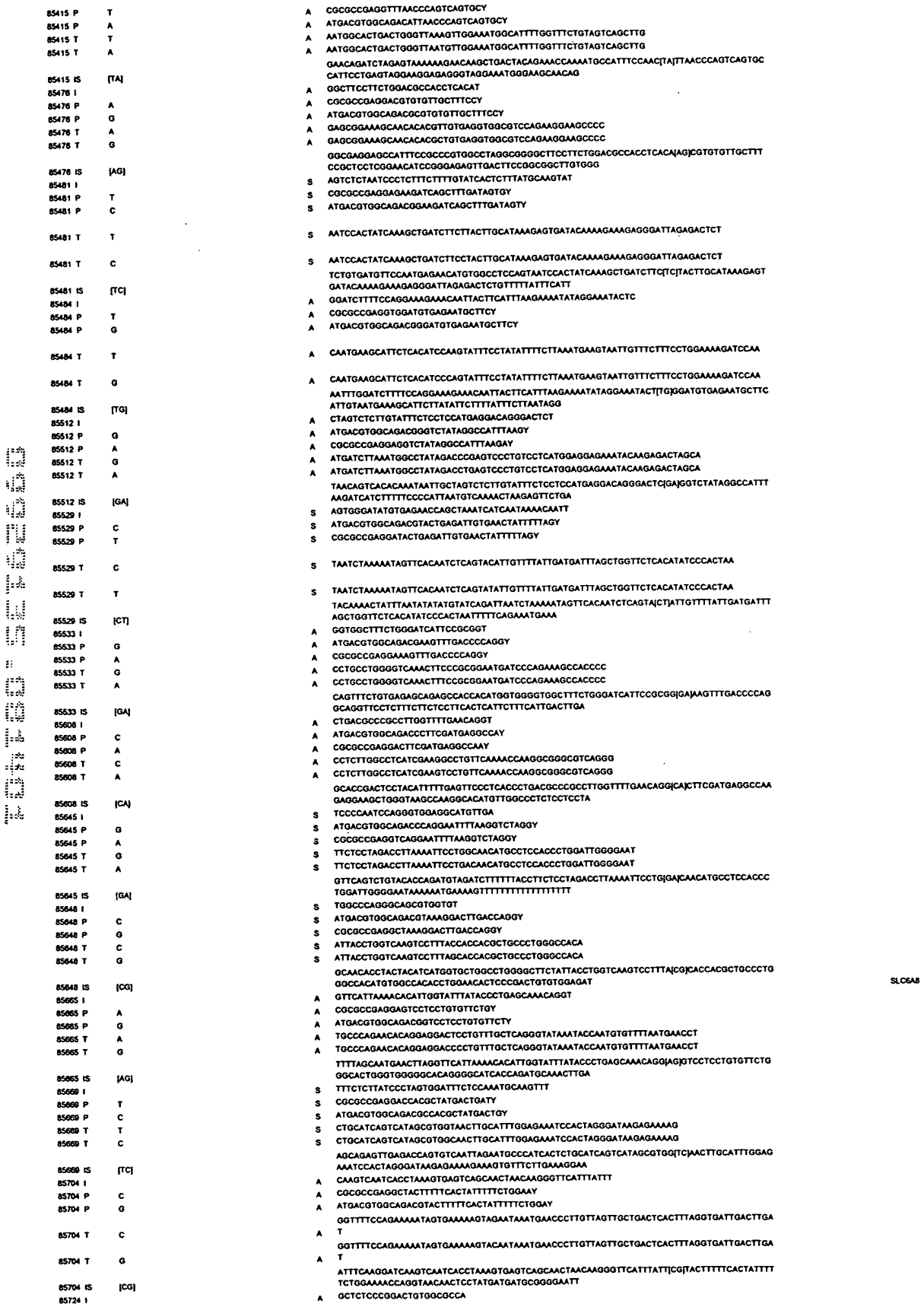

85226 P T S CGCGCCGAGGATGAGCACAGACTGACTY
85226 T G S TGGGAGTCAGTCTGTGCTCAGCCAGTCCCGTGCCCAAATTCTTGGAACCAAA
85226 T T S TGGGAGTCAGTCTGTGCTCATCCAGTCCCGTGCCCAAATTCTTGGAACCAAA
GGGATGGAGCGAGGACTCCTACCAGCTCGTTAACTGAGGCTGGGAGTCAGTCTGTGCTCA[GT]CCAGTCCCGTGCC
85226 IS [GT] CAAATTCTTGGAACCAAATTGAAATATGTACTTTTAACAAAACCAGT
85238 I S CCACCCTACTCCCAACCTATCTCTGGGCCT
85238 P G S CGCGCCGAGGCTCTCCCTAGCTCGTTCY
85238 P C S ATGACGTGGCAGACGTCTCCCTAGCTCGTTY
85238 T G S GAGAGAACGAGCTAGGGAGAGGGCCCAGAGATAGGTTGGGAGTAGGGTGGGG
85238 T C S GAGAGAACGAGCTAGGGAGACGGCCCAGAGATAGGTTGGGAGTAGGGTGGGG
GGTTTTAAGGGCGGCGATGGACGGAGACAGGTTATGATGTGAGAGAACGAGCTAGGGAGA[GC]GGCCCAGAGATAG
85238 IS [GC] GTTGGGAGTAGGGTGGGGGAAACAGTGATCTAAAGGGACAAGAGGCA
85245 I A CCTAATTATTCTGGAGACACTAAAGCCAATGTGCCT
85245 P G A ATGACGTGGCAGACGTTTGTTCCTTGGGAGACY
85245 P A A CGCGCCGAGGATTTGTTCCTTGGGAGACY
85245 T G A TCCTGTCTCCCAAGGAACAAACGGCACATTGGCTTTAGTGTCTCCAGAATAATTAGGTG
85245 T A A TCCTGTCTCCCAAGGAACAAATGGCACATTGGCTTTAGTGTCTCCAGAATAATTAGGTG
CGCATTGAGGTGTTATTAAAATTCACCTAATTATTCTGGAGACACTAAAGCCAATGTGCC[GA]TTTGTTCCTTGGGAGA
85245 IS [GA] CAGGATGATTGAGAAGGGTCTCGGTGGGGATTGGGAGACACTGA
85260 I A GCCCACGACTACTTCCTCCTGAGTGCCT
85260 P G A ATGACGTGGCAGACGTTCAGTGGCCTGTGY
85260 P A A CGCGCCGAGGATTCAGTGGCCTGTGTY
85260 T G A CTGGACACAGGCCACTGAACGGCACTCAGGAGGAAGTAGTCGTGGGCCT
85260 T A A CTGGACACAGGCCACTGAATGGCACTCAGGAGGAAGTAGTCGTGGGCCT
TGCTGGCTGCTGGGAAACTCCTAGGCAGCAGAGGCCCACGACTACTTCCTCCTGAGTGCC[GA]TTCAGTGGCCTGTG
85260 IS [GA] TCCAGGTGAGTCTTGAGCCGTCTCCCTGGCTGTGCACCTGATGTTG
85291 I A GCTAGGAGAGTGAAGGCGCTTGTGGAGACT
85291 P A A CGCGCCGAGGAGCTCTGTAGCAAATGAAAY
85291 P G A ATGACGTGGCAGACGGCTCTGTAGCAAATGAAY
85291 T A A CGTGTTTCATTTGCTACAGAGCTGTCTCCACAAGCGCCTTCACTCTCCTAGCTT
85291 T G A CGTGTTTCATTTGCTACAGAGCCGTCTCCACAAGCGCCTTCACTCTCCTAGCTT
GTACAGAACCGATGCATGGCAGGGTCAGGAAGCTAGGAGAGTGAAGGCGCTTGTGGAGAC[AG]GCTCTGTAGCAAAT
85291 IS [AG] GAAACACGGAAGCCTCCGGGAATGTGTTTGTGTCACCAGCAGCAGG
85303 I S TGCATGGATGGGTCAATAGGCCTATTCTGTTTGTTGTTCC
85303 P T S CGCGCCGAGGAGAGACAAAGAGGATTTGAATY
85303 P A S ATGACGTGGCAGACTGAGACAAAGAGGATTTGAATY
85303 T T S ACACATTCAAATCCTCTTTGTCTCTGAACAACAAACAGAATAGGCCTATTGACCCATCCATGCACC
85303 T A S ACACATTCAAATCCTCTTTGTCTCAGAACAACAAACAGAATAGGCCTATTGACCCATCCATGCACC
TTTTTCAAAATCTGGGCTTATGTATTTCTCAGTTTTACACATTCAAATCCTCTTTGTCTC[TA]GAACAACAAACAGAATAG
85303 IS [TA] GCCTATTGACCCATCCATGCACCTATCTATATCGATTTAAAA
85322 I A GACGGGAGGGGGTGCTGCCCT
85322 P G A ATGACGTGGCAGACGTCAGGCAGAAGGAGCY
85322 P A A CGCGCCGAGGATCAGGCAGAAGGAGCY
85322 T G A CCAAGCTCCTTCTGCCTGACGGGCAGCACCCCCTCCCGTCTG
85322 T A A CCAAGCTCCTTCTGCCTGATGGGCAGCACCCCCTCCCGTCTG
AAATTAAGAAGGAGAGCAGGAAGGGCCCCGGCAGACTCCAGACGGGAGGGGGGTGCTGCCC[GA]TCAGGCAGAAGGA
85322 IS [GA] GCTTGGAAGGGAGGGGCCGTGGCCATGGGACGTGGAGGTGGAAGCGA
85323 I S CAATCCACCTGAGGTGCCCACAGACATCATCA
85323 P G S ATGACGTGGCAGACCCGTATCAGCCCACAY
85323 P A S CGCGCCGAGGTCGTATCAGCCCACAGY
85323 T G S GCAGCTGTGGGCTGATACGGGATGATGTCTGTGGGCACCTCAGGTGGATTGAG
85323 T A S GCAGCTGTGGGCTGATACGAGATGATGTCTGTGGGCACCTCAGGTGGATTGAG
CTGGGTTACTATTGGGAGGAGTTCTCAAGGCCCCCCTAAAGGCAGCTGTGGGCTGATACG[GA]GATGATGTCTGTGG
85323 IS [GA] GCACCTCAGGTGGATTGAGTGGGCTGAGGGAGTTGGGGCTCCAGCC
85337 I A GCCAGGACAGCCTGGGCACCTGA
85337 P C A ATGACGTGGCAGACCCACTCTGGAGCAGGY
85337 P T A CGCGCCGAGGTCACTCTGGAGCAGGY
85337 T C A ACTTCCTGCTCCAGAGTGGCAGGTGCCCAGGCTGTCCTGGCTG
85337 T T A ACTTCCTGCTCCAGAGTGACAGGTGCCCAGGCTGTCCTGGCTG
CGTGCTCCCGCTGGGCTTCTTGTGTGAGATGCACCGCAGCCAGGACAGCCTGGGCACCTG[CT]CACTCTGGAGCAG
85337 IS [CT] GAAGTGAAGCCTCCAGCCCTTGGTTCTTGGGGCTCTGCCGGGAGCGA
85349 I A GGCTGTGGCTGGGTAAGTGGCCTA
85349 P C A ATGACGTGGCAGACCGGGTTTTGCCTTCCY
85349 P T A CGCGCCGAGGTGGGTTTTGCCTTCCAY
85349 T C A GGAATGGAAGGCAAAACCCGAGGCCACTTACCCAGCCACAGCCCT
85349 T T A GGAATGGAAGGCAAAACCCAAGGCCACTTACCCAGCCACAGCCCT
GCTGCTCTGCCATGGGGCTGTCTCTGTGGGATGGCAGGGCTGTGGCTGGGTAAGTGGCCT[CT]GGGTTTTGCCTTC
85349 IS [CT] CATTCCCTATATCAATCTTTCTTTGGCTAGTTAGATTATCATCATAG
85361 I A CACACAAGCTGCCATTTAAGGTGAAAGGGGCT
85361 P G A ATGACGTGGCAGACGTGGTTCTGTGTGGAGAY
85361 P A A CGCGCCGAGGATGGTTCTGTGTGGAGAY
85361 T G A AGTTTCTCCACACAGAACCACGCCCCTTTCACCTTAAATGGCAGCTTGTGTGCC
85361 T A A AGTTTCTCCACACAGAACCATGCCCCTTTCACCTTAAATGGCAGCTTGTGTGCC
CCTTGGGACAACTGCTCTGGCAGCCAGGGCACACAAGCTGCCATTTAAGGTGAAAGGGGC[GA]TGGTTCTGTGTGGA
85361 IS [GA] GAAACTAAAGTTTTCCTCCTCTGAAGCCAGAGGCTGACTGGGCAGG
85371 I A GGCTTCTGTAAGGGAATGCAGTGGGGGAA
85371 P C A ATGACGTGGCAGACCGTGGGGCTGGGY
85371 P T A CGCGCCGAGGTGTGGGGCTGGGAY
85371 T C A TAGGTCCCAGCCCCACGTCCCCCACTGCATTCCCTTACAGAAGCCTG
85371 T T A TAGGTCCCAGCCCCACATCCCCCACTGCATTCCCTTACAGAAGCCTG
CCTCTCAGAATCACTTTCCACTGGTACCACCAGGCTTCTGTAAGGGAATGCAGTGGGGGA[CT]GTGGGGCTGGGACC
85371 IS [CT] TATGCTGGAGACAGGCCTAGAGGCCTGGTTTTCAGTATCAGGAAAT
85385 I S ACGTTATATGTTTCAGTTGGTCAAAATGCTCTAATTTGATACTGAATATTT
85385 P T S CGCGCCGAGGACAAATAAGGGATATTTAGGCAY
85385 P C S ATGACGTGGCAGACGCAAATAAGGGATATTTAGGCY
85385 T T S ACTATGCCTAAATATCCCTTATTTGTAATATTCAGTATCAAATTAGAGCATTTTGACCAACTGAAACATATAACGTTT
85385 T C S ACTATGCCTAAATATCCCTTATTTGCAATATTCAGTATCAAATTAGAGCATTTTGACCAACTGAAACATATAACGTTT
ATACATTTCAGTGGATAATTTATTTAAAAAAAAAAACTATGCCTAAATATCCCTTATTTG[TC]AATATTCAGTATCAAATTA
85385 IS [TC] GAGCATTTTGACCAACTGAAACATATAACGTTTTCATCTCC
85408 I A GCAGGGCCCACGTGCACATCCCA
85408 P C A ATGACGTGGCAGACCCAAGACACAAGCAGGY
85408 P T A CGCGCCGAGGTCAAGACACAAGCAGGAY
85408 T C A GCTCTCCTGCTTGTGTCTTGGGGGATGTGCACGTGGGCCCTGCCC
85408 T T A GCTCTCCTGCTTGTGTCTTGAGGGATGTGCACGTGGGCCCTGCCC
GTCAAACTATGGCAAAGATGATGTTCGATGGGAAAGGGGCAGGGCCCACGTGCACATCCC[CT]CAAGACACAAGCAG
85408 IS [CT] GAGAGCCACAAAGCCAGCCAGCTTACTGCCATCGTAGTTCAGCGTA
85415 I A AGCTGACTACAGAAACCAAAATGCCATTTCCAACC

FIGURE 129D

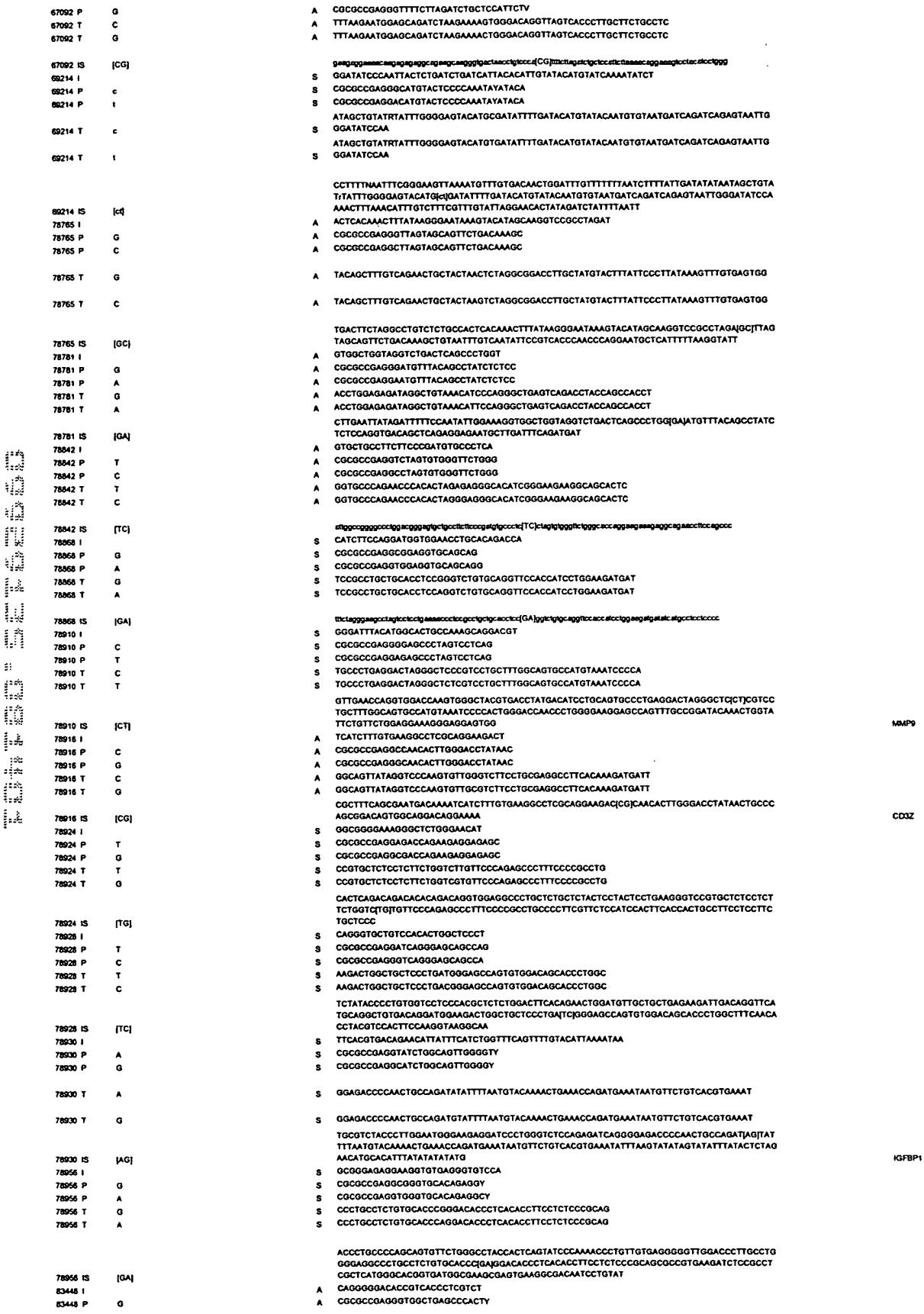


SLC6A8

FIGURE 129D



FIGURE 129D


67092 P G A CGCGCCGAGGGTTTTCTTAGATCTGCTCCATTCTV
67092 T C A TTTAAGAATGGAGCAGATCTAAGAAAAGTGGGACAGGTTAGTCACCCTTGCTTCTGCCTC
67092 T G A TTTAAGAATGGAGCAGATCTAAGAAAACTGGGACAGGTTAGTCACCCTTGCTTCTGCCTC
67092 IS [CG]
69214 I S GGATATCCCAATTACTCTGATCTGATCATTACACATTGTATACATGTATCAAAATATCT
69214 P c S CGCGCCGAGGGCATGTACTCCCCAAATAYATACA
69214 P t S CGCGCCGAGGACATGTACTCCCCAAATAYATACA
69214 T c S GGATATCCAA
69214 T t S GGATATCCAA
69214 IS [ct]
78765 I A ACTCACAAACTTTATAAGGGAATAAAGTACATAGCAAGGTCCGCCTAGAT
78765 P G A CGCGCCGAGGGTTAGTAGCAGTTCTGACAAAGC
78765 P C A CGCGCCGAGGCTTAGTAGCAGTTCTGACAAAGC
78765 T G A TACAGCTTTGTCAGAACTGCTACTAACTCTAGGCGGACCTTGCTATGTACTTTATTCCCTTATAAAGTTTGTGAGTGG
78765 T C A TACAGCTTTGTCAGAACTGCTACTAAGTCTAGGCGGACCTTGCTATGTACTTTATTCCCTTATAAAGTTTGTGAGTGG
78765 IS [GC]
78781 I A GTGGCTGGTAGGTCTGACTCAGCCCTGGT
78781 P G A CGCGCCGAGGGATGTTTACAGCCTATCTCTCC
78781 P A A CGCGCCGAGGAATGTTTACAGCCTATCTCTCC
78781 T G A ACCTGGAGAGATAGGCTGTAAACATCCCAGGGCTGAGTCAGACCTACCAGCCACCT
78781 T A A ACCTGGAGAGATAGGCTGTAAACATTCCAGGGCTGAGTCAGACCTACCAGCCACCT
78781 IS [GA]
78842 I A GTGCTGCCTTCTTCCCGATGTGCCCTCA
78842 P T A CGCGCCGAGGTCTAGTGTGGGTTCTGGG
78842 P C A CGCGCCGAGGCCTAGTGTGGGTTCTGGG
78842 T T A GGTGCCCAGAACCCACACTAGAGAGGGCACATCGGGAAGAAGGCAGCACTC
78842 T C A GGTGCCCAGAACCCACACTAGGGAGGGCACATCGGGAAGAAGGCAGCACTC
78842 IS [TC]
78868 I S CATCTTCCAGGATGGTGGAACCTGCACAGACCA
78868 P G S CGCGCCGAGGCGGAGGTGCAGCAG
78868 P A S CGCGCCGAGGTGGAGGTGCAGCAGG
78868 T G S TCCGCCTGCTGCACCTCCGGGTCTGTGCAGGTTCCACCATCCTGGAAGATGAT
78868 T A S TCCGCCTGCTGCACCTCCAGGTCTGTGCAGGTTCCACCATCCTGGAAGATGAT
78868 IS [GA]
78910 I S GGGATTTACATGGCACTGCCAAAGCAGGACGT
78910 P C S CGCGCCGAGGGGAGCCCTAGTCCTCAG
78910 P T S CGCGCCGAGGAGAGCCCTAGTCCTCAG
78910 T C S TGCCCTGAGGACTAGGGCTCCCGTCCTGCTTTGGCAGTGCCATGTAAATCCCCA
78910 T T S TGCCCTGAGGACTAGGGCTCTCGTCCTGCTTTGGCAGTGCCATGTAAATCCCCA
78910 IS [CT]
78916 I A TCATCTTTGTGAAGGCCTCGCAGGAAGACT
78916 P C A CGCGCCGAGGCCAACACTTGGGACCTATAAC
78916 P G A CGCGCCGAGGCCAACACTTGGGACCTATAAC
78916 T C A GGCAGTTATAGGTCCCAAGTGTTGGGTCTTCCTGCGAGGCCTTCACAAAGATGATT
78916 T G A GGCAGTTATAGGTCCCAAGTGTTGCGTCTTCCTGCGAGGCCTTCACAAAGATGATT
78916 IS [CG]
78924 I S GGCGGGGAAAGGGCTCTGGGAACAT
78924 P T S CGCGCCGAGGAGACCAGAAGAGGAGAGC
78924 P G S CGCGCCGAGGCGACCAGAAGAGGAGAGC
78924 T T S CCGTGCTCTCCTCTTCTGGTCTTGTTCCCAGAGCCCTTTCCCCGCCTG
78924 T G S CCGTGCTCTCCTCTTCTGGTCGTGTTCCCAGAGCCCTTTCCCCGCCTG
78924 IS [TG]
78928 I S CAGGGTGCTGTCCACACTGGCTCCCT
78928 P T S CGCGCCGAGGATCAGGGAGCAGCCAG
78928 P C S CGCGCCGAGGGTCAGGGAGCAGCCA
78928 T T S AAGACTGGCTGCTCCCTGATGGGAGCCAGTGTGGACAGCACCCTGGC
78928 T C S AAGACTGGCTGCTCCCTGACGGGAGCCAGTGTGGACAGCACCCTGGC
78928 IS [TC]
78930 I S TTCACGTGACAGAACATTATTTCATCTGGTTTCAGTTTTGTACATTAAAATAA
78930 P A S CGCGCCGAGGTATCTGGCAGTTGGGGTY
78930 P G S CGCGCCGAGGCATCTGGCAGTTGGGGY
78930 T A S GGAGACCCCAACTGCCAGATATATTTTAATGTACAAAACTGAAACCAGATGAAATAATGTTCTGTCACGTGAAAT
78930 T G S GGAGACCCCAACTGCCAGATGTATTTTAATGTACAAAACTGAAACCAGATGAAATAATGTTCTGTCACGTGAAAT
78930 IS [AG]
78956 I S GCGGGAGAGGAAGGTGTGAGGGTGTCCA
78956 P G S CGCGCCGAGGCGGGTGCACAGAGGY
78956 P A S CGCGCCGAGGTGGGTGCACAGAGGCY
78956 T G S CCCTGCCTCTGTGCACCCGGGACACCCTCACACCTTCCTCTCCCGCAG
78956 T A S CCCTGCCTCTGTGCACCCAGGACACCCTCACACCTTCCTCTCCCGCAG
78956 IS [GA]
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83448 P G A CGCGCCGAGGGTGGCTGAGCCCACTY
MMP9
CD3Z
IGFBP1

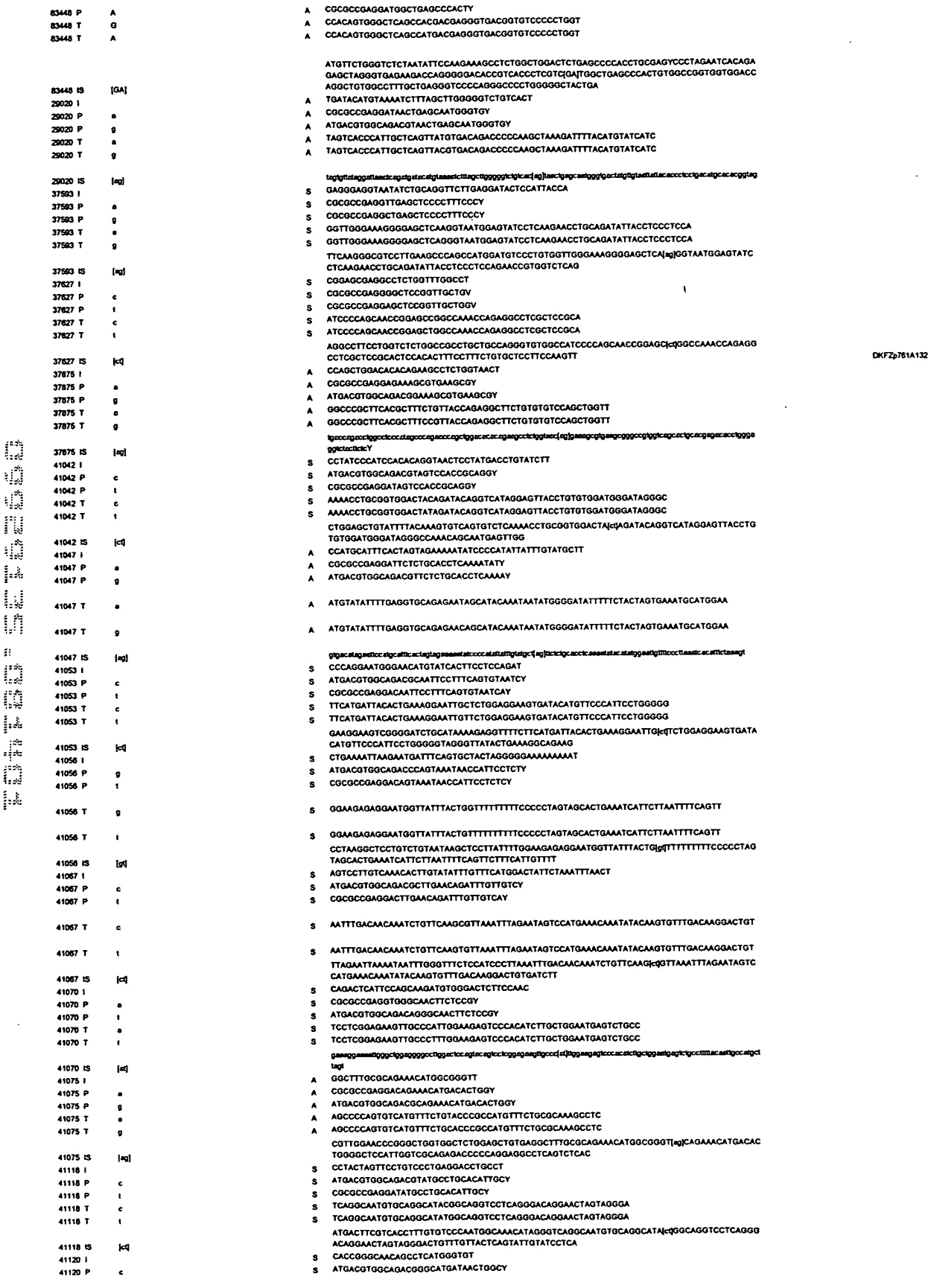
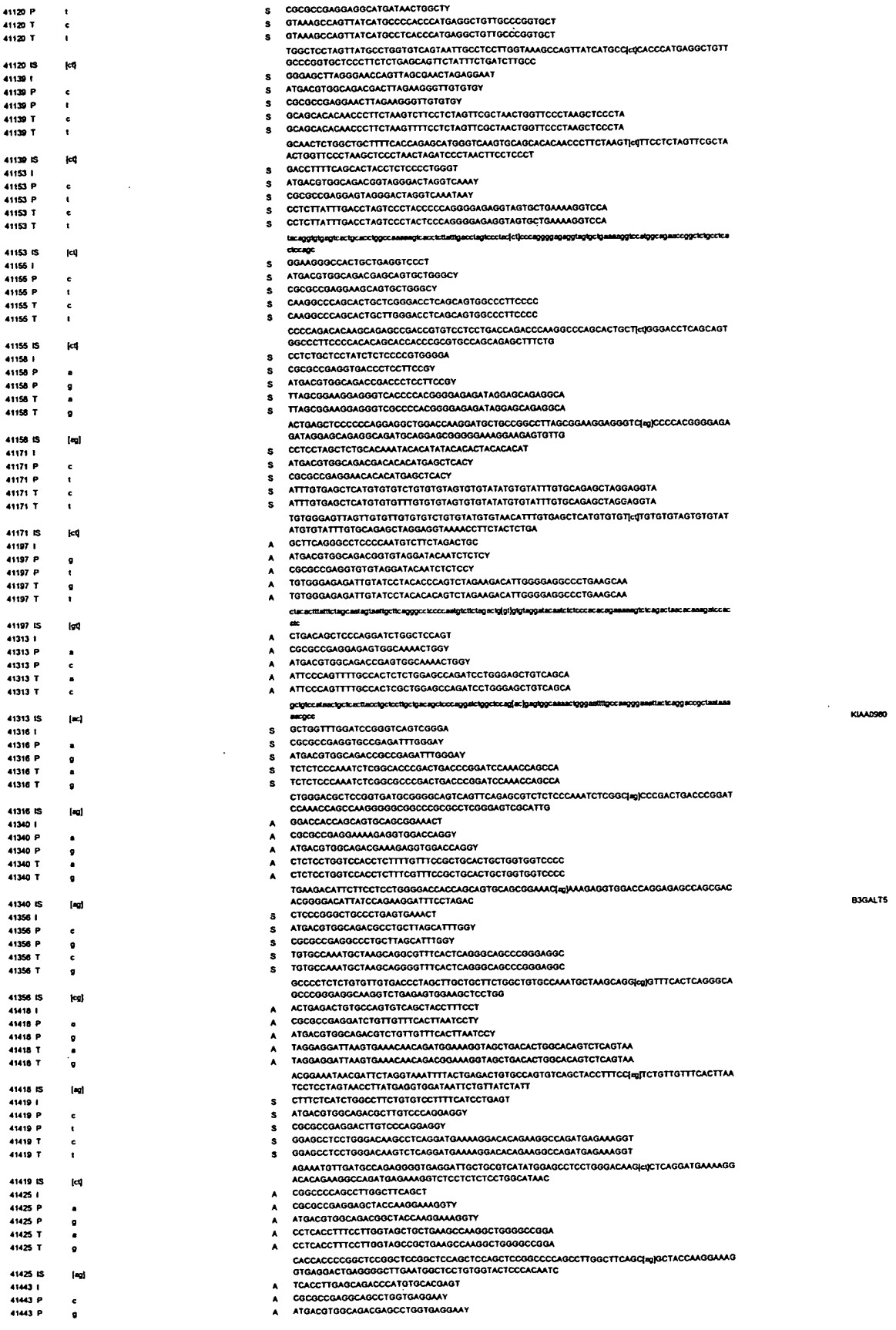

83448 P A
83448 T G
83448 T A
83448 tS [GA]
29020 I
29020 P a
29020 P g
29020 T a
29020 T g
29020 tS [ag]
37593 I
37593 P a
37593 P g
37593 T a
37593 T g
37593 tS [ag]
37627 I
37627 P c
37627 P t
37627 T c
37627 T t
37627 tS [ct]
37875 I
37875 P a
37875 P g
37875 T a
37875 T g
37875 tS [ag]
41042 I
41042 P c
41042 P t
41042 T c
41042 T t
41042 tS [ct]
41047 I
41047 P a
41047 P g
41047 T a
41047 T g
41047 tS [ag]
41053 I
41053 P c
41053 P t
41053 T c
41053 T t
41053 tS [gt]
41067 I
41067 P c
41067 P t
41067 T c
41067 T t
41067 tS [ct]
41070 I
41070 P a
41070 P t
41070 T a
41070 T t
41070 tS [ct]
41075 I
41075 P a
41075 P g
41075 T a
41075 T g
41075 tS [ag]
41118 I
41118 P c
41118 P t
41118 T c
41118 T t
41118 tS [ct]
41120 I
41120 P c
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FIGURE 129D



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FIGURE 129D

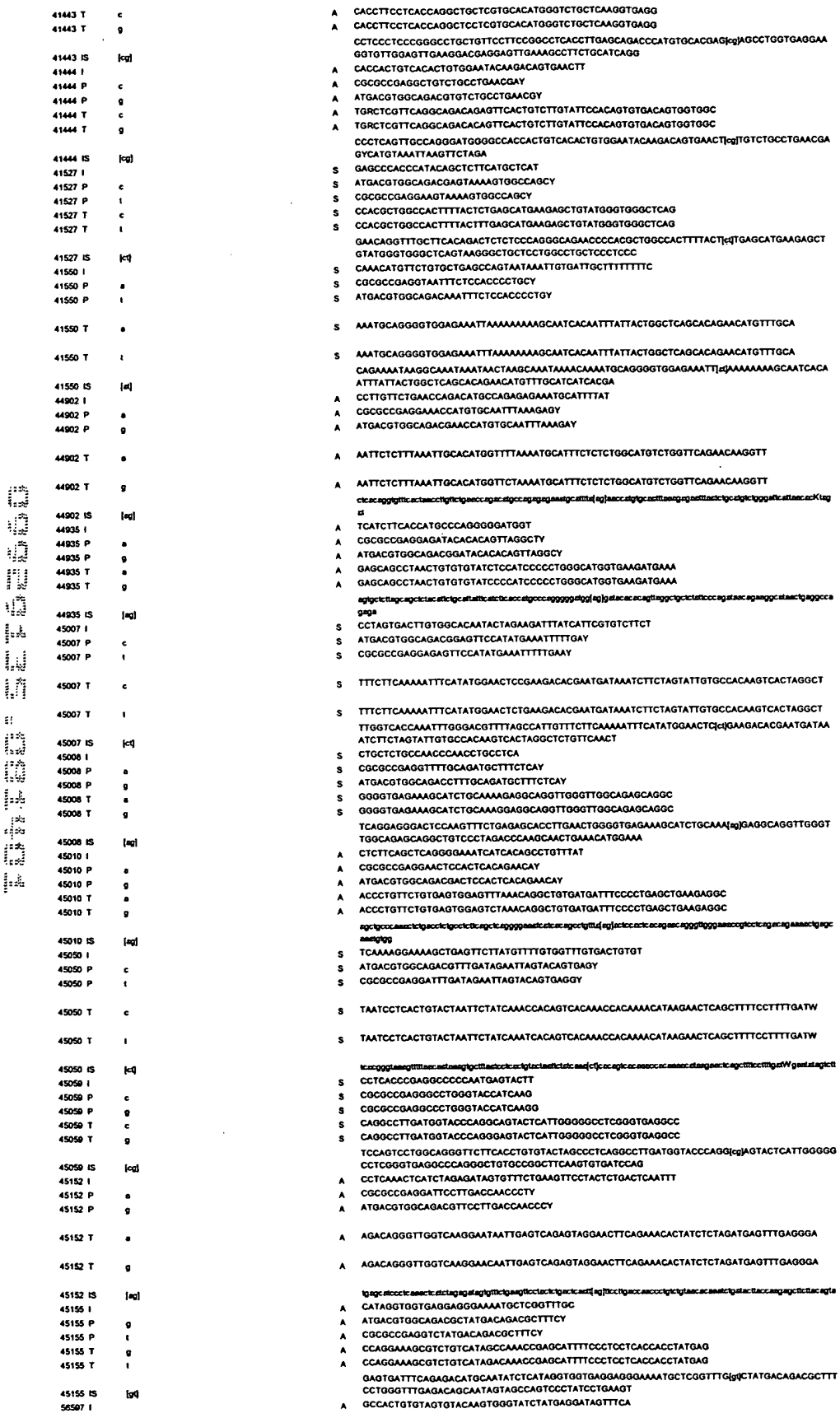


FIGURE 129D

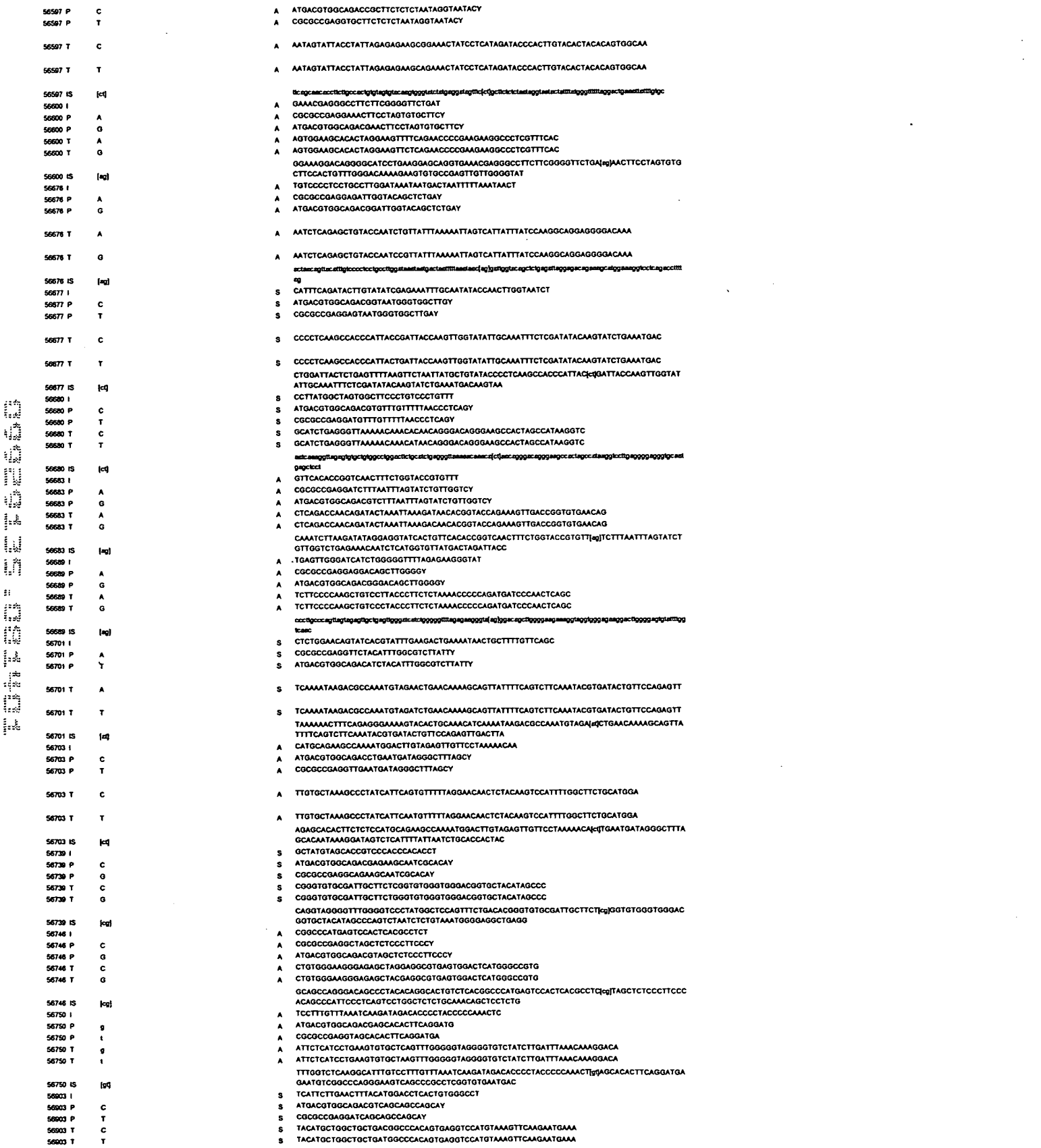
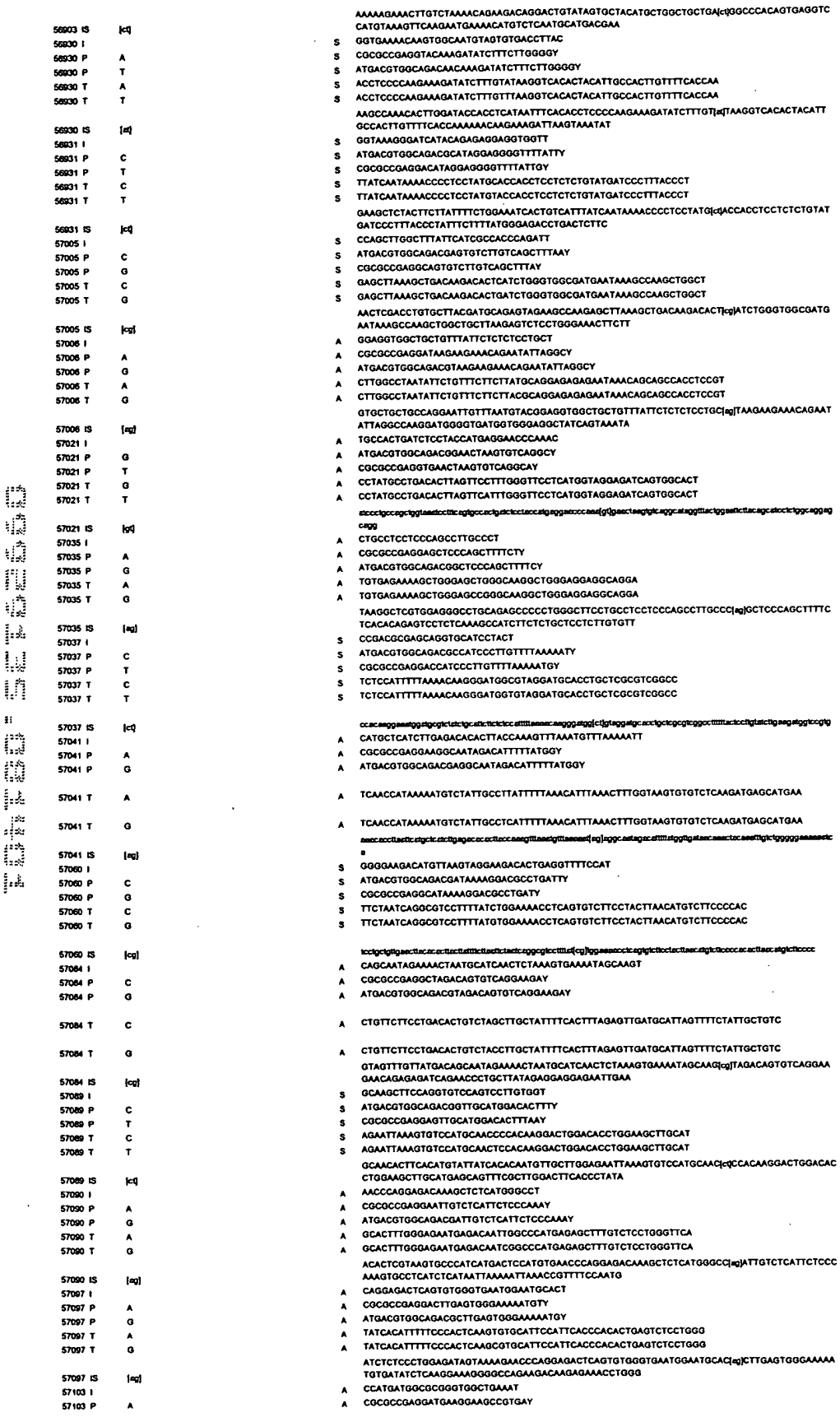
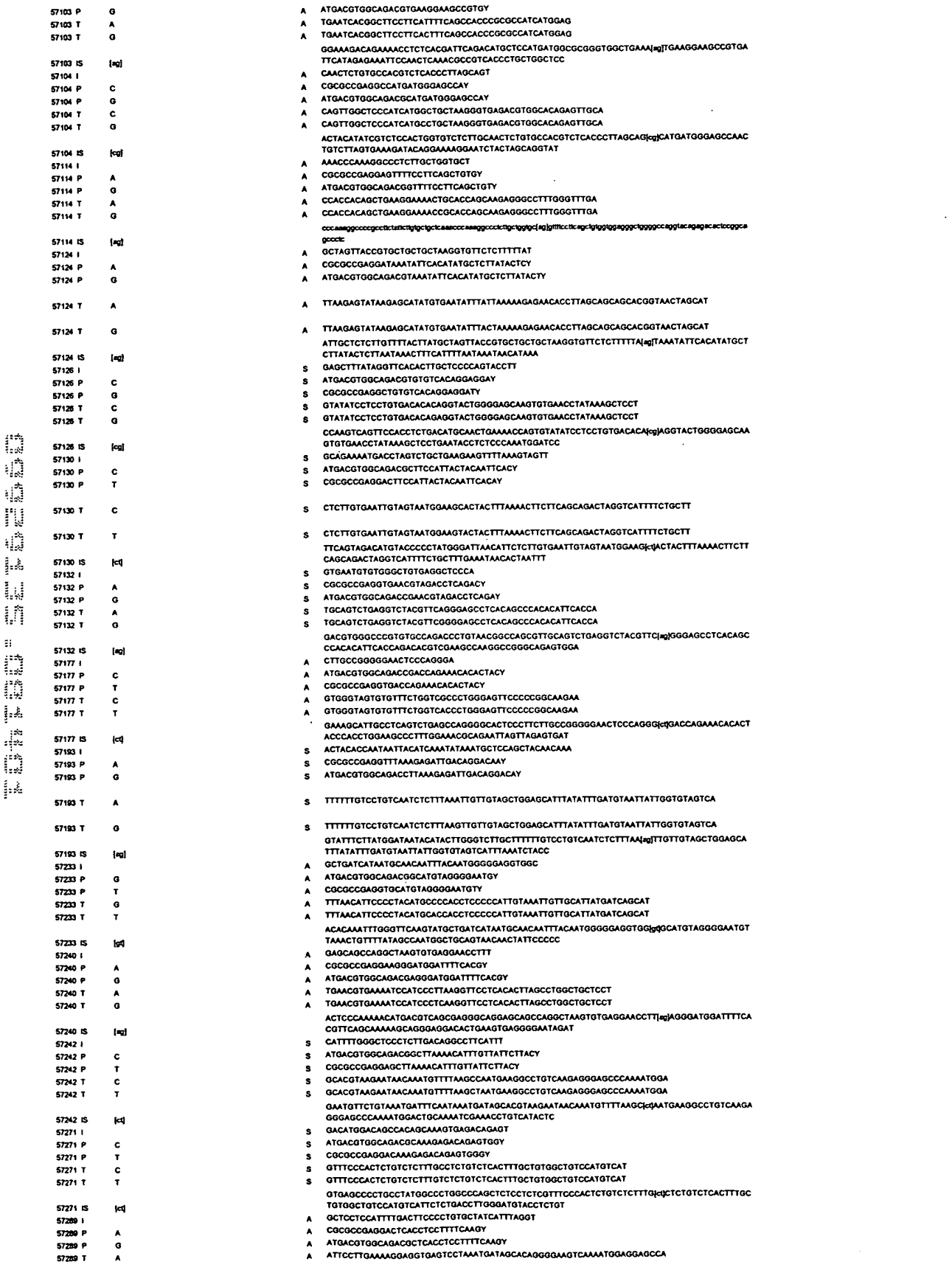

56597 P C A ATGACGTGGCAGACCGCTTCTCTCTAATAGGTAATACY
56597 P T A CGCGCCGAGGTGCTTCTCTCTAATAGGTAATACY
56597 T C A AATAGTATTACCTATTAGAGAGAAGCGGAAACTATCCTCATAGATACCCACTTGTACACTACACAGTGGCAA
56597 T T A AATAGTATTACCTATTAGAGAGAAGCAGAAACTATCCTCATAGATACCCACTTGTACACTACACAGTGGCAA
56597 tS [ct]
56600 I A GAAACGAGGGCCTTCTTCGGGGTTCTGAT
56600 P A A CGCGCCGAGGAAACTTCCTAGTGTGCTTCY
56600 P G A ATGACGTGGCAGACGAACTTCCTAGTGTGCTTCY
56600 T A A AGTGGAAGCACACTAGGAAGTTTTCAGAACCCCGAAGAAGGCCCTCGTTTCAC
56600 T G A AGTGGAAGCACACTAGGAAGTTCTCAGAACCCCGAAGAAGGCCCTCGTTTCAC
56600 tS [ag]
56676 I A TGTCCCCTCCTGCCTTGGATAAATAATGACTAATTTTTAAATAACT
56676 P A A CGCGCCGAGGAGATTGGTACAGCTCTGAY
56676 P G A ATGACGTGGCAGACGGATTGGTACAGCTCTGAY
56676 T A A AATCTCAGAGCTGTACCAATCTGTTATTTAAAAATTAGTCATTATTTATCCAAGGCAGGAGGGGACAAA
56676 T G A AATCTCAGAGCTGTACCAATCCGTTATTTAAAAATTAGTCATTATTTATCCAAGGCAGGAGGGGACAAA
56676 tS [ag]
56677 I S CATTTCAGATACTTGTATATCGAGAAATTTGCAATATACCAACTTGGTAATCT
56677 P C S ATGACGTGGCAGACGGTAATGGGTGGCTTGY
56677 P T S CGCGCCGAGGAGTAATGGGTGGCTTGAY
56677 T C S CCCCTCAAGCCACCCATTACCGATTACCAAGTTGGTATATTGCAAATTTCTCGATATACAAGTATCTGAAATGAC
56677 T T S CCCCTCAAGCCACCCATTACTGATTACCAAGTTGGTATATTGCAAATTTCTCGATATACAAGTATCTGAAATGAC
56677 tS [ct]
56680 I S CCTTATGGCTAGTGGCTTCCCTGTCCCTGTTT
56680 P C S ATGACGTGGCAGACGTGTTTGTTTTTAACCCTCAGY
56680 P T S CGCGCCGAGGATGTTTGTTTTTAACCCTCAGY
56680 T C S GCATCTGAGGGTTAAAAACAAACACAACAGGGACAGGGAAGCCACTAGCCATAAGGTC
56680 T T S GCATCTGAGGGTTAAAAACAAACATAACAGGGACAGGGAAGCCACTAGCCATAAGGTC
56680 tS [ct]
56683 I A GTTCACACCGGTCAACTTTCTGGTACCGTGTTT
56683 P A A CGCGCCGAGGATCTTTAATTTAGTATCTGTTGGTCY
56683 P G A ATGACGTGGCAGACGTCTTTAATTTAGTATCTGTTGGTCY
56683 T A A CTCAGACCAACAGATACTAAATTAAAGATAACACGGTACCAGAAAGTTGACCGGTGTGAACAG
56683 T G A CTCAGACCAACAGATACTAAATTAAAGACAACACGGTACCAGAAAGTTGACCGGTGTGAACAG
56683 tS [ag]
56689 I A .TGAGTTGGGATCATCTGGGGGTTTTAGAGAAGGGTAT
56689 P A A CGCGCCGAGGAGGACAGCTTGGGGY
56689 P G A ATGACGTGGCAGACGGGACAGCTTGGGGY
56689 T A A TCTTCCCCAAGCTGTCCTTACCCTTCTCTAAAACCCCCAGATGATCCCAACTCAGC
56689 T G A TCTTCCCCAAGCTGTCCCTACCCTTCTCTAAAACCCCCAGATGATCCCAACTCAGC
56689 tS [ag]
56701 I S CTCTGGAACAGTATCACGTATTTGAAGACTGAAAATAACTGCTTTTGTTCAGC
56701 P A S CGCGCCGAGGTTCTACATTTGGCGTCTTATTY
56701 P T S ATGACGTGGCAGACATCTACATTTGGCGTCTTATTY
56701 T A S TCAAAATAAGACGCCAAATGTAGAACTGAACAAAAGCAGTTATTTTCAGTCTTCAAATACGTGATACTGTTCCAGAGTT
56701 T T S TCAAAATAAGACGCCAAATGTAGATCTGAACAAAAGCAGTTATTTTCAGTCTTCAAATACGTGATACTGTTCCAGAGTT
56701 tS [ct]
56703 I A CATGCAGAAGCCAAAATGGACTTGTAGAGTTGTTCCTAAAAACAA
56703 P C A ATGACGTGGCAGACCTGAATGATAGGGCTTTAGCY
56703 P T A CGCGCCGAGGTTGAATGATAGGGCTTTAGCY
56703 T C A TTGTGCTAAAGCCCTATCATTCAGTGTTTTTAGGAACAACTCTACAAGTCCATTTTGGCTTCTGCATGGA
56703 T T A TTGTGCTAAAGCCCTATCATTCAATGTTTTTAGGAACAACTCTACAAGTCCATTTTGGCTTCTGCATGGA
56703 tS [ct]
56739 I S GCTATGTAGCACCGTCCCACCCACACCT
56739 P C S ATGACGTGGCAGACGAGAAGCAATCGCACAY
56739 P G S CGCGCCGAGGCAGAAGCAATCGCACAY
56739 T C S CGGGTGTGCGATTGCTTCTCGGTGTGGGTGGGACGGTGCTACATAGCCC
56739 T G S CGGGTGTGCGATTGCTTCTGGGTGTGGGTGGGACGGTGCTACATAGCCC
56739 tS [cg]
56746 I A CGGCCCATGAGTCCACTCACGCCTCT
56746 P C A CGCGCCGAGGCTAGCTCTCCCTTCCCY
56746 P G A ATGACGTGGCAGACGTAGCTCTCCCTTCCCY
56746 T C A CTGTGGGAAGGGAGAGCTAGGAGGCGTGAGTGGACTCATGGGCCGTG
56746 T G A CTGTGGGAAGGGAGAGCTACGAGGCGTGAGTGGACTCATGGGCCGTG
56746 tS [cg]
56750 I A TCCTTTGTTTAAATCAAGATAGACACCCCTACCCCCAAACTC
56750 P g A ATGACGTGGCAGACGAGCACACTTCAGGATG
56750 P t A CGCGCCGAGGTAGCACACTTCAGGATGA
56750 T g A ATTCTCATCCTGAAGTGTGCTCAGTTTGGGGGTAGGGGTGTCTATCTTGATTTAAACAAAGGACA
56750 T t A ATTCTCATCCTGAAGTGTGCTAAGTTTGGGGGTAGGGGTGTCTATCTTGATTTAAACAAAGGACA
56750 tS [gt]
56903 I S TCATTCTTGAACTTTACATGGACCTCACTGTGGGCCT
56903 P C S ATGACGTGGCAGACGTCAGCAGCCAGCAY
56903 P T S CGCGCCGAGGATCAGCAGCCAGCAY
56903 T C S TACATGCTGGCTGCTGACGGCCCACAGTGAGGTCCATGTAAAGTTCAAGAATGAAA
56903 T T S TACATGCTGGCTGCTGATGGCCCACAGTGAGGTCCATGTAAAGTTCAAGAATGAAA

FIGURE 129D




57103 P G A ATGACGTGGCAGACGTGAAGGAAGCCGTGY
57103 T A A TGAATCACGGCTTCCTTCATTTTCAGCCACCCGCGCCATCATGGAG
57103 T G A TGAATCACGGCTTCCTTCACTTTCAGCCACCCGCGCCATCATGGAG
GGAAAGACAGAAAACCTCTCACGATTCAGACATGCTCCATGATGGCGCGGGTGGCTGAAA[ag]TGAAGGAAGCCGTGA
57103 IS [ag] TTCATAGAGAAATTCCAACTCAAACGCCGTCACCCTGCTGGCTCC
57104 I A CAACTCTGTGCCACGTCTCACCCTTAGCAGT
57104 P C A CGCGCCGAGGCCATGATGGGAGCCAY
57104 P G A ATGACGTGGCAGACGCATGATGGGAGCCAY
57104 T C A CAGTTGGCTCCCATCATGGCTGCTAAGGGTGAGACGTGGCACAGAGTTGCA
57104 T G A CAGTTGGCTCCCATCATGCCTGCTAAGGGTGAGACGTGGCACAGAGTTGCA
ACTACATATCGTCTCCACTGGTGTCTCTTGCAACTCTGTGCCACGTCTCACCCTTAGCAG[cg]CATGATGGGAGCCAAC
57104 IS [cg] TGTCTTAGTGAAAGATACAGGAAAAGGAATCTACTAGCAGGTAT
57114 I A AAACCCAAAGGCCCTCTTGCTGGTGCT
57114 P A A CGCGCCGAGGAGTTTTCCTTCAGCTGTGY
57114 P G A ATGACGTGGCAGACGGTTTTCCTTCAGCTGTY
57114 T A A CCACCACAGCTGAAGGAAAACTGCACCAGCAAGAGGGCCTTTGGGTTTGA
57114 T G A CCACCACAGCTGAAGGAAAACCGCACCAGCAAGAGGGCCTTTGGGTTTGA
cccaaaggccccgcctctatctgtgctgctcaaaccaaaggccctctgctggtgc[ag]gtttcctcagctgtgggtgagggctgggggccagggtacagagacactccggca
57114 IS [ag] gccctc
57124 I A GCTAGTTACCGTGCTGCTGCTAAGGTGTTCTCTTTTTAT
57124 P A A CGCGCCGAGGATAAATATTCACATATGCTCTTATACTCY
57124 P G A ATGACGTGGCAGACGTAAATATTCACATATGCTCTTATACTY
57124 T A A TTAAGAGTATAAGAGCATATGTGAATATTTATTAAAAAGAGAACACCTTAGCAGCAGCACGGTAACTAGCAT
57124 T G A TTAAGAGTATAAGAGCATATGTGAATATTTACTAAAAAGAGAACACCTTAGCAGCAGCACGGTAACTAGCAT
ATTGCTCTCTTGTTTTACTTATGCTAGTTACCGTGCTGCTGCTAAGGTGTTCTCTTTTTA[ag]TAAATATTCACATATGCT
57124 IS [ag] CTTATACTCTTAATAAACTTTCATTTTAATAAATAACATAAA
57126 I S GAGCTTTATAGGTTCACACTTGCTCCCCAGTACCTT
57126 P C S ATGACGTGGCAGACGTGTGTCACAGGAGGAY
57126 P G S CGCGCCGAGGCTGTGTCACAGGAGGATY
57126 T C S GTATATCCTCCTGTGACACACAGGTACTGGGGAGCAAGTGTGAACCTATAAAGCTCCT
57126 T G S GTATATCCTCCTGTGACACAGAGGTACTGGGGAGCAAGTGTGAACCTATAAAGCTCCT
CCAAGTCAGTTCCACCTCTGACATGCAACTGAAAACCAGTGTATATCCTCCTGTGACACA[cg]AGGTACTGGGGAGCAA
57126 IS [cg] GTGTGAACCTATAAAGCTCCTGAATACCTCTCCCAAATGGATCC
57130 I S GCAGAAAATGACCTAGTCTGCTGAAGAAGTTTTAAAGTAGTT
57130 P C S ATGACGTGGCAGACGCTTCCATTACTACAATTCACY
57130 P T S CGCGCCGAGGACTTCCATTACTACAATTCACAY
57130 T C S CTCTTGTGAATTGTAGTAATGGAAGCACTACTTTAAAACTTCTTCAGCAGACTAGGTCATTTTCTGCTT
57130 T T S CTCTTGTGAATTGTAGTAATGGAAGTACTACTTTAAAACTTCTTCAGCAGACTAGGTCATTTTCTGCTT
TTCAGTAGACATGTACCCCCTATGGGATTAACATTCTCTTGTGAATTGTAGTAATGGAAG[ct]ACTACTTTAAAACTTCTT
57130 IS [ct] CAGCAGACTAGGTCATTTTCTGCTTTGAAATAACACTAATTT
57132 I S GTGAATGTGTGGGCTGTGAGGCTCCCA
57132 P A S CGCGCCGAGGTGAACGTAGACCTCAGACY
57132 P G S ATGACGTGGCAGACCGAACGTAGACCTCAGAY
57132 T A S TGCAGTCTGAGGTCTACGTTCAGGGAGCCTCACAGCCCACACATTCACCA
57132 T G S TGCAGTCTGAGGTCTACGTTCGGGGAGCCTCACAGCCCACACATTCACCA
GACGTGGGCCCGTGTGCCAGACCCTGTAACGGCCAGCGTTGCAGTCTGAGGTCTACGTTC[ag]GGGAGCCTCACAGC
57132 IS [ag] CCACACATTCACCAGACACGTCGAAGCCAAGGCCGGGCAGAGTGGA
57177 I A CTTGCCGGGGGAACTCCCAGGGA
57177 P C A ATGACGTGGCAGACCGACCAGAAACACACTACY
57177 P T A CGCGCCGAGGTGACCAGAAACACACTACY
57177 T C A GTGGGTAGTGTGTTTCTGGTCGCCCTGGGAGTTCCCCCGGCAAGAA
57177 T T A GTGGGTAGTGTGTTTCTGGTCACCCTGGGAGTTCCCCCGGCAAGAA
GAAAGCATTGCCTCAGTCTGAGCCAGGGGCACTCCCTTCTTGCCGGGGGAACTCCCAGGG[ct]GACCAGAAACACACT
57177 IS [ct] ACCCACCTGGAAGCCCTTTGGAAACGCAGAATTAGTTAGAGTGAT
57193 I S ACTACACCAATAATTACATCAAATATAAATGCTCCAGCTACAACAAA
57193 P A S CGCGCCGAGGTTTAAAGAGATTGACAGGACAAY
57193 P G S ATGACGTGGCAGACCTTAAAGAGATTGACAGGACAY
57193 T A S TTTTTTGTCCTGTCAATCTCTTTAAATTGTTGTAGCTGGAGCATTTATATTTGATGTAATTATTGGTGTAGTCA
57193 T G S TTTTTTGTCCTGTCAATCTCTTTAAGTTGTTGTAGCTGGAGCATTTATATTTGATGTAATTATTGGTGTAGTCA
GTATTTCTTATGGATAATACATACTTGGGTCTTGCTTTTTTGTCCTGTCAATCTCTTTAA[ag]TTGTTGTAGCTGGAGCA
57193 IS [ag] TTTATATTTGATGTAATTATTGGTGTAGTCATTTAAATCTACC
57233 I A GCTGATCATAATGCAACAATTTACAATGGGGGAGGTGGC
57233 P G A ATGACGTGGCAGACGGCATGTAGGGGAATGY
57233 P T A CGCGCCGAGGTGCATGTAGGGGAATGTY
57233 T G A TTTAACATTCCCCTACATGCCCCACCTCCCCCATTGTAAATTGTTGCATTATGATCAGCAT
57233 T T A TTTAACATTCCCCTACATGCACCACCTCCCCCATTGTAAATTGTTGCATTATGATCAGCAT
ACACAAATTTGGGTTCAAGTATGCTGATCATAATGCAACAATTTACAATGGGGGAGGTGG[gt]GCATGTAGGGGAATGT
57233 IS [gt] TAAACTGTTTTATAGCCAATGGCTGCAGTAACAACTATTCCCCC
57240 I A GAGCAGCCAGGCTAAGTGTGAGGAACCTTT
57240 P A A CGCGCCGAGGAAGGGATGGATTTTCACGY
57240 P G A ATGACGTGGCAGACGAGGGATGGATTTTCACGY
57240 T A A TGAACGTGAAAATCCATCCCTTAAGGTTCCTCACACTTAGCCTGGCTGCTCCT
57240 T G A TGAACGTGAAAATCCATCCCTCAAGGTTCCTCACACTTAGCCTGGCTGCTCCT
ACTCCCAAAAACATGACGTCAGCGAGGGCAGGAGCAGCCAGGCTAAGTGTGAGGAACCTT[ag]AGGGATGGATTTTCA
57240 IS [ag] CGTTCAGCAAAAAGCAGGGAGGACACTGAAGTGAGGGGAATAGAT
57242 I S CATTTTGGGCTCCCTCTTGACAGGCCTTCATTT
57242 P C S ATGACGTGGCAGACGGCTTAAAACATTTGTTATTCTTACY
57242 P T S CGCGCCGAGGAGCTTAAAACATTTGTTATTCTTACY
57242 T C S GCACGTAAGAATAACAAATGTTTTAAGCCAATGAAGGCCTGTCAAGAGGGAGCCCAAAATGGA
57242 T T S GCACGTAAGAATAACAAATGTTTTAAGCTAATGAAGGCCTGTCAAGAGGGAGCCCAAAATGGA
GAATGTTCTGTAAATGATTTCAATAAATGATAGCACGTAAGAATAACAAATGTTTTAAGC[ct]AATGAAGGCCTGTCAAGA
57242 IS [ct] GGGAGCCCAAAATGGACTGCAAAATCGAAACCTGTCATACTC
57271 I S GACATGGACAGCCACAGCAAAGTGAGACAGAGT
57271 P C S ATGACGTGGCAGACGCAAAGAGACAGAGTGGY
57271 P T S CGCGCCGAGGACAAAGAGACAGAGTGGGY
57271 T C S GTTTCCCACTCTGTCTCTTTGCCTCTGTCTCACTTTGCTGTGGCTGTCCATGTCAT
57271 T T S GTTTCCCACTCTGTCTCTTTGTCTCTGTCTCACTTTGCTGTGGCTGTCCATGTCAT
GTGAGCCCCTGCCTATGGCCCTGGCCCAGCTCTCCTCTCGTTTCCCACTCTGTCTCTTTG[ct]CTCTGTCTCACTTTGC
57271 IS [ct] TGTGGCTGTCCATGTCATTCTCTGACCTTGGGATGTACCTCTGT
57289 I A GCTCCTCCATTTTGACTTCCCCTGTGCTATCATTTAGGT
57289 P A A CGCGCCGAGGACTCACCTCCTTTTCAAGY
57289 P G A ATGACGTGGCAGACGCTCACCTCCTTTTCAAGY
57289 T A A ATTCCTTGAAAAGGAGGTGAGTCCTAAATGATAGCACAGGGGAAGTCAAAATGGAGGAGCCA

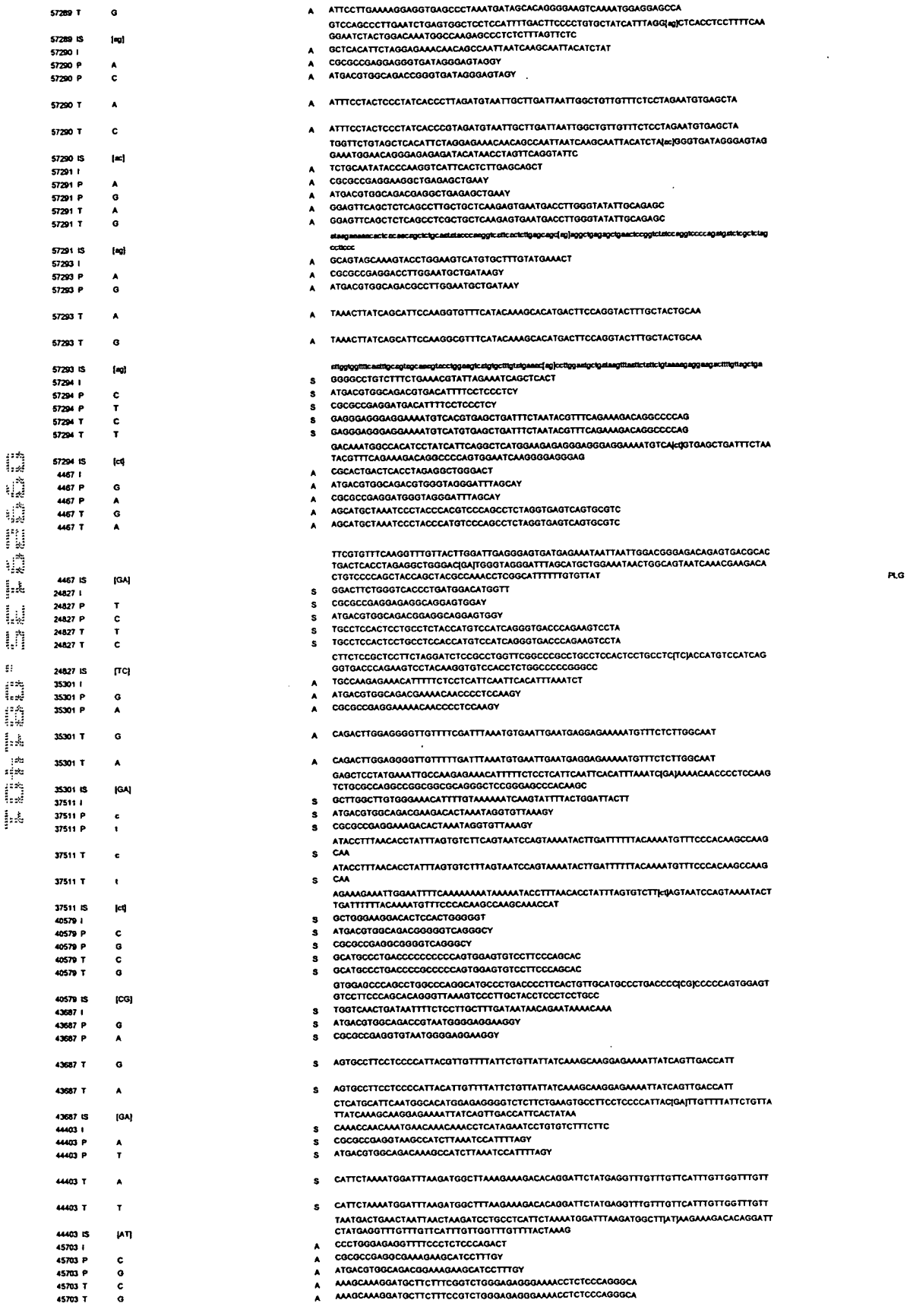
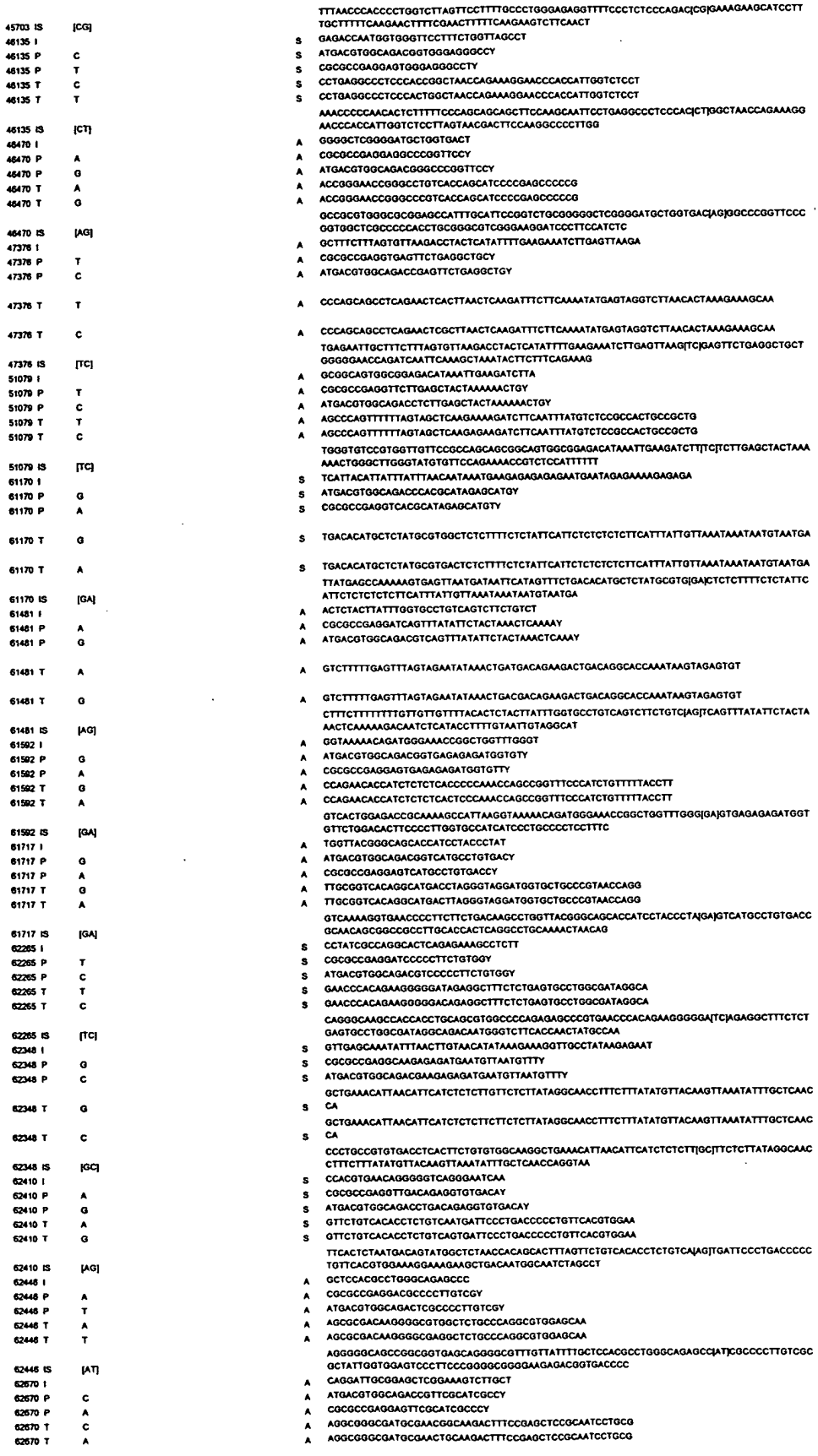
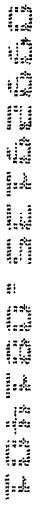

57289 T G A ATTCCTTGAAAAGGAGGTGAGCCCTAAATGATAGCACAGGGGAAGTCAAAATGGAGGAGCCA
GTCCAGCCCTTGAATCTGAGTGGCTCCTCCATTTTGACTTCCCCTGTGCTATCATTTAGG[ag]CTCACCTCCTTTTCAA
57289 IS [ag] GGAATCTACTGGACAAATGGCCAAGAGCCCTCTCTTTAGTTCTC
57290 I A GCTCACATTCTAGGAGAAACAACAGCCAATTAATCAAGCAATTACATCTAT
57290 P A A CGCGCCGAGGAGGGTGATAGGGAGTAGGY
57290 P C A ATGACGTGGCAGACCGGGTGATAGGGAGTAGY
57290 T A A ATTTCCTACTCCCTATCACCCTTAGATGTAATTGCTTGATTAATTGGCTGTTGTTTCTCCTAGAATGTGAGCTA
57290 T C A ATTTCCTACTCCCTATCACCCGTAGATGTAATTGCTTGATTAATTGGCTGTTGTTTCTCCTAGAATGTGAGCTA
57290 IS [ac] TGGTTCTGTAGCTCACATTCTAGGAGAAACAACAGCCAATTAATCAAGCAATTACATCTA[ac]GGGTGATAGGGAGTAG
GAAATGGAACAGGGAGAGAGATACATAACCTAGTTCAGGTATTC
57291 I A TCTGCAATATACCCAAGGTCATTCACTCTTGAGCAGCT
57291 P A A CGCGCCGAGGAAGGCTGAGAGCTGAAY
57291 P G A ATGACGTGGCAGACGAGGCTGAGAGCTGAAY
57291 T A A GGAGTTCAGCTCTCAGCCTTGCTGCTCAAGAGTGAATGACCTTGGGTATATTGCAGAGC
57291 T G A GGAGTTCAGCTCTCAGCCTCGCTGCTCAAGAGTGAATGACCTTGGGTATATTGCAGAGC
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57291 IS [ag] cctccc
57293 I A GCAGTAGCAAAGTACCTGGAAGTCATGTGCTTTGTATGAAACT
57293 P A A CGCGCCGAGGACCTTGGAATGCTGATAAGY
57293 P G A ATGACGTGGCAGACGCCTTGGAATGCTGATAAY
57293 T A A TAAACTTATCAGCATTCCAAGGTGTTTCATACAAAGCACATGACTTCCAGGTACTTTGCTACTGCAA
57293 T G A TAAACTTATCAGCATTCCAAGGCGTTTCATACAAAGCACATGACTTCCAGGTACTTTGCTACTGCAA
ctggtggttttcaattgcagtagcaaaggtacccggaagtcatgtgcttgtatgaaac[ag]cctggaatgctgataagttaattctattctgtaaaagaggaagacttttgttagctga
57293 IS [ag]
57294 I S GGGGCCTGTCTTTCTGAAACGTATTAGAAATCAGCTCACT
57294 P C S ATGACGTGGCAGACGTGACATTTTCCTCCCTCY
57294 P T S CGCGCCGAGGATGACATTTTCCTCCCTCY
57294 T C S GAGGGAGGGAGGAAAATGTCACGTGAGCTGATTTCTAATACGTTTCAGAAAGACAGGCCCCAG
57294 T T S GAGGGAGGGAGGAAAATGTCATGTGAGCTGATTTCTAATACGTTTCAGAAAGACAGGCCCCAG
GACAAATGGCCACATCCTATCATTCAGGCTCATGGAAGAGAGGGAGGGAGGAAAATGTCA[ct]GTGAGCTGATTTCTAA
57294 IS [ct] TACGTTTCAGAAAGACAGGCCCCAGTGGAATCAAGGGGAGGGAG
4467 I A CGCACTGACTCACCTAGAGGCTGGGACT
4467 P G A ATGACGTGGCAGACGTGGGTAGGGATTTAGCAY
4467 P A A CGCGCCGAGGATGGGTAGGGATTTAGCAY
4467 T G A AGCATGCTAAATCCCTACCCACGTCCCAGCCTCTAGGTGAGTCAGTGCGTC
4467 T A A AGCATGCTAAATCCCTACCCATGTCCCAGCCTCTAGGTGAGTCAGTGCGTC
TTCGTGTTTCAAGGTTTGTTACTTGGATTGAGGGAGTGATGAGAAATAATTAATTGGACGGGAGACAGAGTGACGCAC
TGACTCACCTAGAGGCTGGGAC[GA]TGGGTAGGGATTTAGCATGCTGGAAATAACTGGCAGTAATCAAACGAAGACA
4467 IS [GA] CTGTCCCCAGCTACCAGCTACGCCAAACCTCGGCATTTTTTGTGTTAT PLG
24827 I S GGACTTCTGGGTCACCCTGATGGACATGGTT
24827 P T S CGCGCCGAGGAGAGGCAGGAGTGGAY
24827 P C S ATGACGTGGCAGACGGAGGCAGGAGTGGY
24827 T T S TGCCTCCACTCCTGCCTCTACCATGTCCATCAGGGTGACCCAGAAGTCCTA
24827 T C S TGCCTCCACTCCTGCCTCCACCATGTCCATCAGGGTGACCCAGAAGTCCTA
CTTCTCCGCTCCTTCTAGGATCTCCGCCTGGTTCGGCCCGCCTGCCTCCACTCCTGCCTC[TC]ACCATGTCCATCAG
24827 IS [TC] GGTGACCCAGAAGTCCTACAAGGTGTCCACCTCTGGCCCCCGGGCC
35301 I A TGCCAAGAGAAACATTTTTCTCCTCATTCAATTCACATTTAAATCT
35301 P G A ATGACGTGGCAGACGAAAACAACCCCTCCAAGY
35301 P A A CGCGCCGAGGAAAAACAACCCCTCCAAGY
35301 T G A CAGACTTGGAGGGGTTGTTTTCGATTTAAATGTGAATTGAATGAGGAGAAAAATGTTTCTCTTGGCAAT
35301 T A A CAGACTTGGAGGGGTTGTTTTTGATTTAAATGTGAATTGAATGAGGAGAAAAATGTTTCTCTTGGCAAT
GAGCTCCTATGAAATTGCCAAGAGAAACATTTTTCTCCTCATTCAATTCACATTTAAATC[GA]AAAACAACCCCTCCAAG
35301 IS [GA] TCTGCGCCAGGCCGGCGGCGCAGGGCTCCGGGAGCCCACAAGC
37511 I S GCTTGGCTTGTGGGAAACATTTTGTAAAAAATCAAGTATTTTACTGGATTACTT
37511 P c S ATGACGTGGCAGACGAAGACACTAAATAGGTGTTAAAGY
37511 P t S CGCGCCGAGGAAAGACACTAAATAGGTGTTAAAGY
ATACCTTTAACACCTATTTAGTGTCTTCAGTAATCCAGTAAAATACTTGATTTTTTACAAAATGTTTCCCACAAGCCAAG
37511 T c S CAA
ATACCTTTAACACCTATTTAGTGTCTTTAGTAATCCAGTAAAATACTTGATTTTTTACAAAATGTTTCCCACAAGCCAAG
37511 T t S CAA
AGAAAGAAATTGGAATTTTCAAAAAAAATAAAAATACCTTTAACACCTATTTAGTGTCTT[ct]AGTAATCCAGTAAAATACT
37511 IS [ct] TGATTTTTTACAAAATGTTTCCCACAAGCCAAGCAAACCAT
40579 I S GCTGGGAAGGACACTCCACTGGGGGT
40579 P C S ATGACGTGGCAGACGGGGGTCAGGGCY
40579 P G S CGCGCCGAGGCGGGGTCAGGGCY
40579 T C S GCATGCCCTGACCCCCCCCCCAGTGGAGTGTCCTTCCCAGCAC
40579 T G S GCATGCCCTGACCCCGCCCCCAGTGGAGTGTCCTTCCCAGCAC
GTGGAGCCCAGCCTGGCCCAGGCATGCCCTGACCCCTTCACTGTTGCATGCCCTGACCCC[CG]CCCCCAGTGGAGT
40579 IS [CG] GTCCTTCCCAGCACAGGGTTAAAGTCCCTTGCTACCTCCCTCCTGCC
43687 I S TGGTCAACTGATAATTTTCTCCTTGCTTTGATAATAACAGAATAAAACAAA
43687 P G S ATGACGTGGCAGACCGTAATGGGGAGGAAGGY
43687 P A S CGCGCCGAGGTGTAATGGGGAGGAAGGY
43687 T G S AGTGCCTTCCTCCCCATTACGTTGTTTTATTCTGTTATTATCAAAGCAAGGAGAAAATTATCAGTTGACCATT
43687 T A S AGTGCCTTCCTCCCCATTACATTGTTTTATTCTGTTATTATCAAAGCAAGGAGAAAATTATCAGTTGACCATT
CTCATGCATTCAATGGCACATGGAGAGGGGTCTCTTCTGAAGTGCCTTCCTCCCCATTAC[GA]TTGTTTTATTCTGTTA
43687 IS [GA] TTATCAAAGCAAGGAGAAAATTATCAGTTGACCATTCACTATAA
44403 I S CAAACCAACAAATGAACAAACAAACCTCATAGAATCCTGTGTCTTTCTTC
44403 P A S CGCGCCGAGGTAAGCCATCTTAAATCCATTTTAGY
44403 P T S ATGACGTGGCAGACAAAGCCATCTTAAATCCATTTTAGY
44403 T A S CATTCTAAAATGGATTTAAGATGGCTTAAAGAAAGACACAGGATTCTATGAGGTTTGTTTGTTCATTTGTTGGTTTGTT
44403 T T S CATTCTAAAATGGATTTAAGATGGCTTTAAGAAAGACACAGGATTCTATGAGGTTTGTTTGTTCATTTGTTGGTTTGTT
TAATGACTGAACTAATTAACTAAGATCCTGCCTCATTCTAAAATGGATTTAAGATGGCTT[AT]AAGAAAGACACAGGATT
44403 IS [AT] CTATGAGGTTTGTTTGTTCATTTGTTGGTTTGTTTTACTAAAG
45703 I A CCCTGGGAGAGGTTTTCCCTCTCCCAGACT
45703 P C A CGCGCCGAGGCGAAAGAAGCATCCTTTGY
45703 P G A ATGACGTGGCAGACGGAAAGAAGCATCCTTTGY
45703 T C A AAAGCAAAGGATGCTTCTTTCGGTCTGGGAGAGGGAAAACCTCTCCCAGGGCA
45703 T G A AAAGCAAAGGATGCTTCTTTCCGTCTGGGAGAGGGAAAACCTCTCCCAGGGCA

FIGURE 129D


45703 IS [CG]
46135 I
46135 P C
46135 P T
46135 T C
46135 T T
46135 IS [CT]
46470 I
46470 P A
46470 P G
46470 T A
46470 T G
46470 IS [AG]
47376 I
47376 P T
47376 P C
47376 T T
47376 T C
47376 IS [TC]
51079 I
51079 P T
51079 P C
51079 T T
51079 T C
51079 IS [TC]
61170 I
61170 P G
61170 P A
61170 T G
61170 T A
61170 IS [GA]
61481 I
61481 P A
61481 P G
61481 T A
61481 T G
61481 IS [AG]
61592 I
61592 P G
61592 P A
61592 T G
61592 T A
61592 IS [GA]
61717 I
61717 P G
61717 P A
61717 T G
61717 T A
61717 IS [GA]
62265 I
62265 P T
62265 P C
62265 T T
62265 T C
62265 IS [TC]
62348 I
62348 P G
62348 P C
62348 T G
62348 T C
62348 IS [GC]
62410 I
62410 P A
62410 P G
62410 T A
62410 T G
62410 IS [AG]
62446 I
62446 P A
62446 P T
62446 T A
62446 T T
62446 IS [AT]
62670 I
62670 P C
62670 P A
62670 T C
62670 T A



```
                                TCGCCATAGCAACATGCGGGTACCGCGGACCGCAGGATTGCGGAGCTCGGAAAGTCTTGC[CA]GTTCGCATCGCCC
                                GCCTGTCTTGGGGTCTTCTACCTCCGAAGCTGGGACTCGGGGGCCAG
62670 IS      [CA]
62698 I
62698 P       C
62698 P       T
62698 T       C
62698 T       T
                                CGCTCAAGCCGTGCGAGAGTGAGAACAGGTACTGGAGCAGTTGCCGGCTTCGGGACGTGG[CT]CTCACCATCCGCC
                                TTCTCTTCCAGCAGCAGGCCGGGCCTGCCCCCCTTGCCAGCTTCCAC
62698 IS      [CT]
62701 I
62701 P       T
62701 P       G
62701 T       T
62701 T       G
                                CCGGCCCTACCCACAAGATGTGAACTTCAGAGCCTTCTTGCAACTGCTTCTTGGCTATTT[TG]CACCCTCTAACCCTCT
                                GGAAGAAGAATGAGGACTATTATGAAGGCAAAAGCATAAAAGGG
62701 IS      [TG]
62897 I
62897 P       C
62897 P       T
62897 T       C
62897 T       T
                                CCAGAGGGACTCTCAGGAAGAGGCCAGGTCAGGGTGGCTAAGTGTCACCTGGCCAGGCCT[CT]GGGGCAGAGTGG
                                GTGGTGCAGGGCCTGGGTTCCTTGAAGGGCTTCTGGGATGCCTCGGTT
62897 IS      [CT]
63095 I
63095 P       G
63095 P       A
63095 T       G
63095 T       A
                                GGCTAAGAAGTGGTTTTTGGGGCACAAGGGGGAGGTGCTGGGGGTGTCCTGCGAGGACCC[GA]GGGGTCTACATCC
                                GGCCCAGTCCCAGCACTGCAGCTTCCAAGGGTCCCAGGGAGCTGCTC
63095 IS      [GA]
63196 I
63196 P       T
63196 P       G
63196 T       T
63196 T       G
                                GCCTATGTTAGTCGATGGTAGGAATTTTCACATAAGGTTTGTGGCAGCAGACCCAAAAGA[TG]CAGTGAAAGGGGCTA
                                GGGAGAACCACGTTTTTCTTAATTTTTATCCCATGACGTTAAATA
63196 IS      [TG]
63530 I
63530 P       C
63530 P       T
63530 T       C
63530 T       T
                                TGTAAGCAGTCTAATTCTAGTAGGACTCTTTTGTTCCAAAACAAAACAAAACTCGTTAAG[CT]GAAGGAGAGAAAAGAG
                                AGGGTTATTGTAAAGATGTGGAGATTTCAGAGGAAGGTCAGTGT
63530 IS      [CT]
63535 I
63535 P       C
63535 P       T
63535 T       C
63535 T       T
                                AGAAAAGAGAGGCTTCTGGAAACATAGGCTTACATTGTTATTCCTGCATTTGGGCTTCTG[CT]AAGCTCACCACCCTCT
                                CTCAGAGTTTCTATAATACTCCATGGAAATGTGTTGACAAGGCC
63535 IS      [CT]
63656 I
63656 P       T
63656 P       C
63656 T       T
63656 T       C
                                CTAATGCATCCATATTTGCATTTCTTAGAAATCTAAGCAACATTCTATTATTTTCAAGGG[TC]CCCACAGAAAAAACAGC
                                TCTGCAGAGCTTATTTCTAGAGAAACAGAAGAGCCATACAATG
63656 IS      [TC]
63823 I
63823 P       G
63823 P       A
                                AAAGCCTTTTTAAATTTTACTGATTATGAAATCAATAGATGTTTCATTGTTTAAAAATAATCTAGAAAATACCAAAAAAAA
63823 T       G                 AGGAAAATATAT
                                AAAGCCTTTTTAAATTTTACTGATTATGAAATTAATAGATGTTTCATTGTTTAAAAATAATCTAGAAAATACCAAAAAAAA
63823 T       A                 AGGAAAATATAT
                                ATATATTTTCCTTTTTTTTTGGTATTTTCTAGATTATTTTTAAACAATGAAACATCTATT[GA]ATTTCATAATCAGTAAAAT
                                TTAAAAAGGCTTTTTCTTATATCTTAATAATATATTGGTCA
63823 IS      [GA]
63975 I
63975 P       T
63975 P       C
63975 T       T
63975 T       C
                                AAAGACTTAATTAGACTATGGTTATTTGACTTAATGATGTTTTAAAACAATATTCACAAA[TC]TGTGAGTGAGAAAAAAAA
                                CTGCTTGATGCCATACTTCAAAGATGTCGCTTTCAAAATTGC
63975 IS      [TC]
63976 I
63976 P       A
63976 P       G
63976 T       A
63976 T       G
                                AGTAAAAACCAGTGATAAAAGATGGGCTTTGCAGATCTCTAATTAGCAAACTCCCTTGAA[AG]GTATATTAATCAAAATA
                                CATTTCCAATTTAATTTTTAATAGTGTCATTACCAAGGCATTA
63976 IS      [AG]
64075 I
64075 P       A
64075 P       G
64075 T       A
64075 T       G
                                CCCAAAAGAATAAATAAGAATATTGTTGAAATGGTTACATATGATGTCCAGGTGTAGAAG[AG]ACTGGAGGGTTGGGA
                                GCTCAGGCAGGGCTTAAGGGCAAAGAACAAGTTTAATAGGAAAAG
64075 IS      [AG]
64101 I
```

FIGURE 129D

```
64101 P   T     S  CGCGCCGAGGATAGAAGCTGAGGAGGACY
64101 P   C     S  ATGACGTGGCAGACGTAGAAGCTGAGGAGGAY

64101 T   T     S  TTCAGTCCTCCTCAGCTTCTATGTATTTAGTGATTGACTTACTACACACATAATTGCAGTCAGGAAAATATCAG

64101 T   C     S  TTCAGTCCTCCTCAGCTTCTACGTATTTAGTGATTGACTTACTACACACATAATTGCAGTCAGGAAAATATCAG

64101 IS  [TC]    ACAATCTCCTGTTCTCCTAATCCACCTTCATCATCTCTATTCAGTCCTCCTCAGCTTCTA[TC]GTATTTAGTGATTGACT
                  TACTACACACATAATTGCAGTCAGGAAAATATCAGATCTAGGT
64141 I           A  CATCTAACTTTTCACAAAAGCCTATTTTGTTAGATAAACAGACTGTTGA
64141 P   T     A  CGCGCCGAGGTTCTGTACTGTCAAAAAGAATGAY
64141 P   C     A  ATGACGTGGCAGACCTCTGTACTGTCAAAAAGAATGY

64141 T   T     A  ACTTTCATTCTTTTTGACAGTACAGAACAACAGTCTGTTTATCTAACAAAATAGGCTTTTGTGAAAAGTTAGATGTG

64141 T   C     A  ACTTTCATTCTTTTTGACAGTACAGAGCAACAGTCTGTTTATCTAACAAAATAGGCTTTTGTGAAAAGTTAGATGTG

64141 IS  [TC]    GTGTGATTTACACATCTAACTTTTCACAAAAGCCTATTTTGTTAGATAAACAGACTGTTG[TC]TCTGTACTGTCAAAAAG
                  AATGAAAGTGCCATCAACGGGAGACACAAAGAATATTCTAAGG
64147 I           A  CACATCTGTTAGCTCATGTGAGGCAGACAATACTATT
64147 P   C     A  ATGACGTGGCAGACCCCCAGTCTTAGCTGAAY
64147 P   A     A  CGCGCCGAGGACCCAGTCTTAGCTGAATY
64147 T   C     A  TTTTATTCAGCTAAGACTGGGGATAGTATTGTCTGCCTCACATGAGCTAACAGATGTGAA
64147 T   A     A  TTTTATTCAGCTAAGACTGGGTATAGTATTGTCTGCCTCACATGAGCTAACAGATGTGAA

64147 IS  [CA]    GGCTTTGTCATCATAATTATTCTTCACATCTGTTAGCTCATGTGAGGCAGACAATACTAT[CA]CCCAGTCTTAGCTGAA
                  TAAAATGAGAACTAGAAGAGTGAGGTTACCCTGCTGATAAATGC
64586 I           A  GCACTAAATAATTATGTTGCCCTTTTCACTACTTAAACACTTACACATTTTAGATATTACT
64586 P   A     A  CGCGCCGAGGATATTTATTTAACTGTCCTGAAAAATAAAGY
64586 P   G     A  ATGACGTGGCAGACGTATTTATTTAACTGTCCTGAAAAATAAAY

64586 T   A     A  AAAACTTTATTTTTCAGGACAGTTAAATAAATATGTAATATCTAAAATGTGTAAGTGTTTAAGTAGTGAAAAGGGCAACA
                  TAATTATTTAGTGC
64586 T   G     A  AAAACTTTATTTTTCAGGACAGTTAAATAAATACGTAATATCTAAAATGTGTAAGTGTTTAAGTAGTGAAAAGGGCAACA
                  TAATTATTTAGTGC

64586 IS  [AG]    GCACTAAATAATTATGTTGCCCTTTTCACTACTTAAACACTTACACATTTTAGATATTAC[AG]TATTTATTTAACTGTCCT
                  GAAAAATAAAGTTTTCGTTCTTCCTCAACACTCTGCCATATG
64615 I           S  TACAGAAAAATAAAATTTTAATACCATATCAATTTGTACAGAATGCAAATTTCTAATACTT
64615 P   T     S  CGCGCCGAGGATAGAAATTTGTGTATTTAGTTCTAATAAAAY
64615 P   C     S  ATGACGTGGCAGACGTAGAAATTTGTGTATTTAGTTCTAATAAAAY

64615 T   T     S  GTGCTTTTATTAGAACTAAATACACAAATTTCTATAGTATTAGAAATTTGCATTCTGTACAAATTGATATGGTATTAAAAT
                  TTTATTTTTCTGTA
64615 T   C     S  GTGCTTTTATTAGAACTAAATACACAAATTTCTACAGTATTAGAAATTTGCATTCTGTACAAATTGATATGGTATTAAAAT
                  TTTATTTTTCTGTA

64615 IS  [TC]    AAAGTAAAGAACATTCTCAGCTTTTTGTGCTTTTATTAGAACTAAATACACAAATTTCTA[TC]AGTATTAGAAATTTGCAT
                  TCTGTACAAATTGATATGGTATTAAAATTTTATTTTTCTGTA
64629 I           S  AAATTTCTCATTTTATATGTACAGTATGATTGAGACTCTTGAAAATAAAAGATTTCCATGT
64629 P   T     S  CGCGCCGAGGACAAAAAAAAAGTCACTCCTAGY
64629 P   C     S  ATGACGTGGCAGACGCAAAAAAAAAGTCACTCCTAY

64629 T   T     S  TTTTCTAGGAGTGACTTTTTTTTTGTCATGGAAATCTTTTATTTTCAAGAGTCTCAATCATACTGTACATATAAAATGAGA
                  AATTT
64629 T   C     S  TTTTCTAGGAGTGACTTTTTTTTTGCCATGGAAATCTTTTATTTTCAAGAGTCTCAATCATACTGTACATATAAAATGAG
                  AAATTT

64629 IS  [TC]    TTTTGTGTAACACCTTGGATAAATTTTATTCTGATTTTTCTAGGAGTGACTTTTTTTTTG[TC]CATGGAAATCTTTTATTT
                  TCAAGAGTCTCAATCATACTGTACATATAAAATGAGAAATTT
64650 I           A  ACTTAGTGCAGAACCTTACATCCACATTCCATTACCT
64650 P   G     A  ATGACGTGGCAGACGTGGTCACCATTGGTGY
64650 P   A     A  CGCGCCGAGGATGGTCACCATTGGTGTY
64650 T   G     A  CTGTACACCAATGGTGACCACGGTAATGGAATGTGGATGTAAGGTTCTGCACTAAGTGT
64650 T   A     A  CTGTACACCAATGGTGACCATGGTAATGGAATGTGGATGTAAGGTTCTGCACTAAGTGT

64650 IS  [GA]    AGGGGGCCTGGAGCAAAAAAAGACACTTAGTGCAGAACCTTACATCCACATTCCATTACC[GA]TGGTCACCATTGGTG
                  TACAGCTGATGAGGACTTGCTGGACACATGCCCTTTAATTAGGGT
64794 I           S  AGCTGTTGGCATCACACACATATTATCCCATGTCCTT
64794 P   T     S  CGCGCCGAGGAGAAAATACAGTTTTAATCTAAAGCAY
64794 P   C     S  ATGACGTGGCAGACGGAAAATACAGTTTTAATCTAAAGCY

64794 T   T     S  GTTTTGCTTTAGATTAAAACTGTATTTTCTAGGACATGGGATAATATGTGTGTGATGCCAACAGCTGA

64794 T   C     S  GTTTTGCTTTAGATTAAAACTGTATTTTCCAGGACATGGGATAATATGTGTGTGATGCCAACAGCTGA

64794 IS  [TC]    CTATGGGAGTCTGTTTTTTTGGTTTTGTTTTGTTTTGCTTTAGATTAAAACTGTATTTTC[TC]AGGACATGGGATAATAT
                  GTGTGTGATGCCAACAGCTGACCTGTGTCCTCTGAGAGCAAGA
64838 I           S  GTTTAAAATGTTTGTGTAAAATATGAACATTTTGTATTAAGCCACCAGAGAC
64838 P   A     S  CGCGCCGAGGTGGCAGCCTCAGAGY
64838 P   T     S  ATGACGTGGCAGACAGGCAGCCTCAGAGY

64838 T   A     S  GATTCTCTGAGGCTGCCATCTCTGGTGGCTTAATACAAAATGTTCATATTTTACACAAACATTTTAAACCT

64838 T   T     S  GATTCTCTGAGGCTGCCTTCTCTGGTGGCTTAATACAAAATGTTCATATTTTACACAAACATTTTAAACCT

64838 IS  [AT]    GGGGTACCCCATATACAAATATTGCAATGTACCATTTGGTTGGGATTCTCTGAGGCTGCC[AT]TCTCTGGTGGCTTAAT
                  ACAAAATGTTCATATTTTACACAAACATTTTAAACCTGAATACA
65029 I           A  AGAAGGGATTCTGGGCTAGAAAGGGTGCAGAAC
65029 P   G     A  ATGACGTGGCAGACGCCTGAAGTAGAAAGAGACY
65029 P   T     A  CGCGCCGAGGTCCTGAAGTAGAAAGAGACGY
65029 T   G     A  ATCCCGTCTCTTTCTACTTCAGGCTTCTGCACCCTTTCTAGCCCAGAATCCCTTCTTC
65029 T   T     A  ATCCCGTCTCTTTCTACTTCAGGATTCTGCACCCTTTCTAGCCCAGAATCCCTTCTTC

65029 IS  [GT]    GGGCTCAGTAATCTGAAGCTTGGTGGGAAGAAGGGATTCTGGGCTAGAAAGGGTGCAGAA[GT]CCTGAAGTAGAAAG
                  AGACGGGATTTTGGTCCGGGGTGGAGAGCGAATGCATTGAAAAGGG
65066 I           S  AGTACAGAATGGGAACCCCAGAGCTAGGAAATGTAGTTGTATAC
65066 P   A     S  CGCGCCGAGGTTTTAATGAACTGCTACCCCY
65066 P   C     S  ATGACGTGGCAGACGTTTAATGAACTGCTACCCCY

65066 T   A     S  GGCTGGGGTAGCAGTTCATTAAAATATACAACTACATTTCCTAGCTCTGGGGTTCCCATTCTGTACTGG

65066 T   C     S  GGCTGGGGTAGCAGTTCATTAAACTATACAACTACATTTCCTAGCTCTGGGGTTCCCATTCTGTACTGG

65066 IS  [AC]    GCTTTCTGTAGAGCACAAAAGTGAAAGAAGCTTCTTTGGCTGGGGTAGCAGTTCATTAAA[AC]TATACAACTACATTTC
                  CTAGCTCTGGGGTTCCCATTCTGTACTGGAGAGTGCAGGTCACG
65206 I           S  CTTGAACAGTTTTCAGGAAAAAAAGTCCCGAATGTTACTTTCTCAGTT
65206 P   G     S  ATGACGTGGCAGACCAATTTCAATAAATTTCTCAGGGY
65206 P   T     S  CGCGCCGAGGAAATTTCAATAAATTTCTCAGGGGY

65206 T   G     S  TAGACCCCTGAGAAATTTATTGAAATTGACTGAGAAAGTAACATTCGGGACTTTTTTTCCTGAAAACTGTTCAAGCC

65206 T   T     S  TAGACCCCTGAGAAATTTATTGAAATTTACTGAGAAAGTAACATTCGGGACTTTTTTTCCTGAAAACTGTTCAAGCC
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DKFZP434E2135

FIGURE 129D

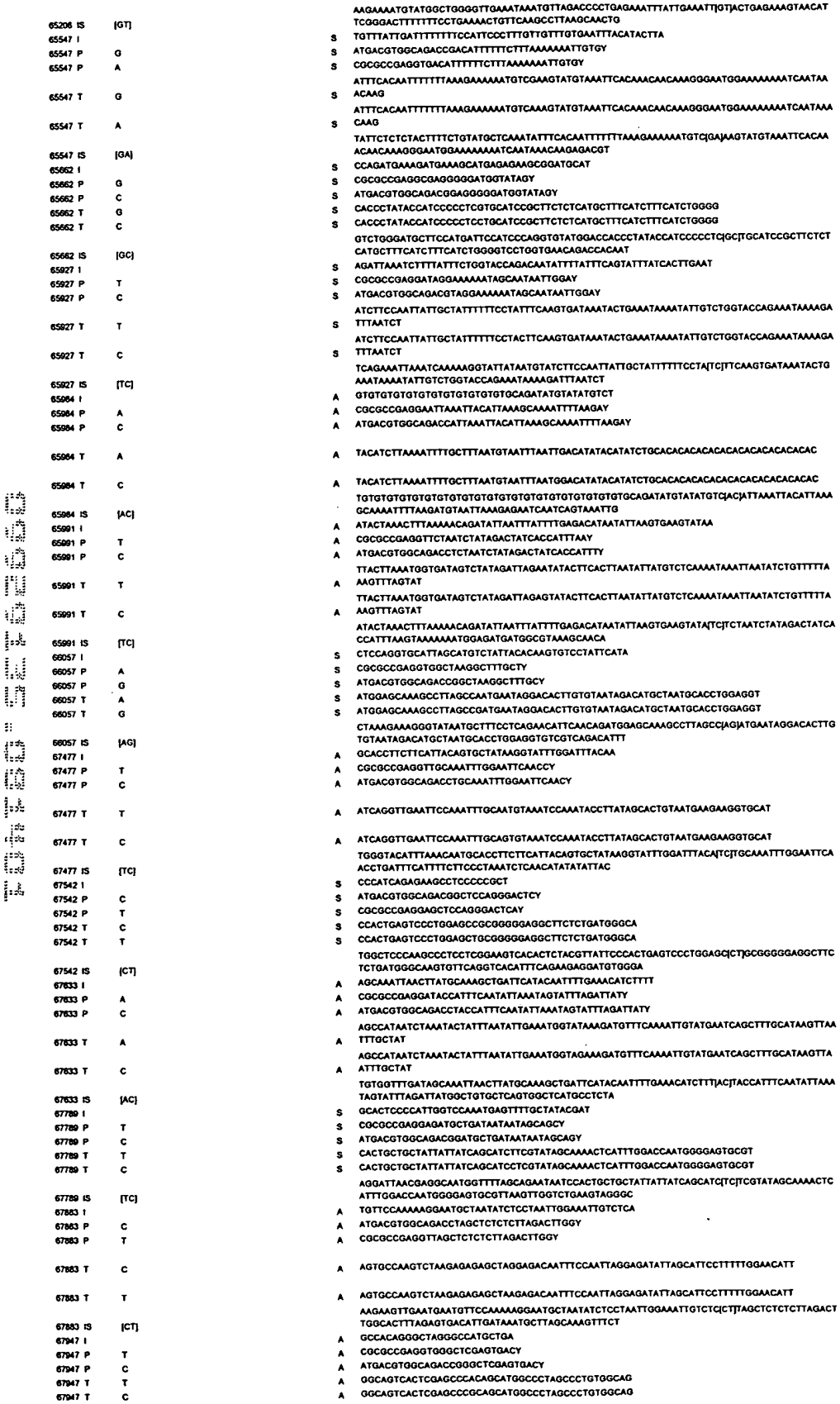

AAGAAAATGTATGGCTGGGGTTGAAATAAATGTTAGACCCCTGAGAAATTTATTGAAATTGTACTGAGAAAGTAACAT
65206 IS (GT) TCGGGACTTTTTTTCCTGAAAACTGTTCAAGCCTTAAGCAACTG
65547 I S TGTTTATTGATTTTTTTTCCATTCCCTTTGTTGTTTGTGAATTTACATACTTA
65547 P G S ATGACGTGGCAGACCGACATTTTTTCTTTAAAAAAATTGTGY
65547 P A S CGCGCCGAGGTGACATTTTTTCTTTAAAAAAATTGTGY
ATTTCACAATTTTTTTAAAGAAAAAATGTCGAAGTATGTAAATTCACAAACAACAAAGGGAATGGAAAAAAAATCAATAA
65547 T G S ACAAG
ATTTCACAATTTTTTTAAAGAAAAAATGTCAAAGTATGTAAATTCACAAACAACAAAGGGAATGGAAAAAAAATCAATAAA
65547 T A S CAAG
TATTCTCTCTACTTTTCTGTATGCTCAAATATTTCACAATTTTTTTAAAGAAAAAATGTC[GA]AAGTATGTAAATTCACAA
ACAACAAAGGGAATGGAAAAAAAATCAATAAACAAGAGACGT
65547 IS (GA)
65662 I S CCAGATGAAAGATGAAAGCATGAGAGAAGCGGATGCAT
65662 P G S CGCGCCGAGGCGAGGGGGATGGTATAGY
65662 P C S ATGACGTGGCAGACGGAGGGGGATGGTATAGY
65662 T G S CACCCTATACCATCCCCCTCGTGCATCCGCTTCTCTCATGCTTTCATCTTTCATCTGGGG
65662 T C S CACCCTATACCATCCCCCTCCTGCATCCGCTTCTCTCATGCTTTCATCTTTCATCTGGGG
GTCTGGGATGCTTCCATGATTCCATCCCAGGTGTATGGACCACCCTATACCATCCCCCTC[GC]TGCATCCGCTTCTCT
65662 IS (GC) CATGCTTTCATCTTTCATCTGGGGTCCTGGTGAACAGACCACAAT
65927 I S AGATTAAATCTTTTATTTCTGGTACCAGACAATATTTTATTTCAGTATTTATCACTTGAAT
65927 P T S CGCGCCGAGGATAGGAAAAAATAGCAATAATTGGAY
65927 P C S ATGACGTGGCAGACGTAGGAAAAAATAGCAATAATTGGAY
ATCTTCCAATTATTGCTATTTTTTCCTATTTCAAGTGATAAATACTGAAATAAAATATTGTCTGGTACCAGAAATAAAAGA
65927 T T S TTTAATCT
ATCTTCCAATTATTGCTATTTTTTCCTACTTCAAGTGATAAATACTGAAATAAAATATTGTCTGGTACCAGAAATAAAAGA
65927 T C S TTTAATCT
TCAGAAATTAAATCAAAAAGGTATTATAATGTATCTTCCAATTATTGCTATTTTTTCCTA[TC]TTCAAGTGATAAATACTG
65927 IS (TC) AAATAAAATATTGTCTGGTACCAGAAATAAAAGATTTAATCT
65984 I A GTGTGTGTGTGTGTGTGTGTGTGCAGATATGTATATGTCT
65984 P A A CGCGCCGAGGAATTAAATTACATTAAAGCAAAATTTTAAGAY
65984 P C A ATGACGTGGCAGACCATTAAATTACATTAAAGCAAAATTTTAAGAY
65984 T A A TACATCTTAAAATTTTGCTTTAATGTAATTTAATTGACATATACATATCTGCACACACACACACACACACACACAC
65984 T C A TACATCTTAAAATTTTGCTTTAATGTAATTTAATGGACATATACATATCTGCACACACACACACACACACACAC
TGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGCAGATATGTATATGT[AC]ATTAAATTACATTAAA
65984 IS (AC) GCAAAATTTTAAGATGTAATTAAAGAGAATCAATCAGTAAATTG
65991 I A ATACTAAACTTTAAAAACAGATATTAATTTATTTTGAGACATAATATTAAGTGAAGTATAA
65991 P T A CGCGCCGAGGTTCTAATCTATAGACTATCACCATTTAAY
65991 P C A ATGACGTGGCAGACCTCTAATCTATAGACTATCACCATTTY
TTACTTAAATGGTGATAGTCTATAGATTAGAATATACTTCACTTAATATTATGTCTCAAAATAAATTAATATCTGTTTTTA
65991 T T A AAGTTTAGTAT
TTACTTAAATGGTGATAGTCTATAGATTAGAGTATACTTCACTTAATATTATGTCTCAAAATAAATTAATATCTGTTTTTA
65991 T C A AAGTTTAGTAT
ATACTAAACTTTAAAAACAGATATTAATTTATTTTGAGACATAATATTAAGTGAAGTATA[TC]TCTAATCTATAGACTATCA
65991 IS (TC) CCATTTAAGTAAAAAAATGGAGATGATGGCGTAAAGCAACA
66057 I S CTCCAGGTGCATTAGCATGTCTATTACACAAGTGTCCTATTCATA
66057 P A S CGCGCCGAGGTGGCTAAGGCTTTGCTY
66057 P G S ATGACGTGGCAGACCGGCTAAGGCTTTGCY
66057 T A S ATGGAGCAAAGCCTTAGCCAATGAATAGGACACTTGTGTAATAGACATGCTAATGCACCTGGAGGT
66057 T G S ATGGAGCAAAGCCTTAGCCGATGAATAGGACACTTGTGTAATAGACATGCTAATGCACCTGGAGGT
CTAAAGAAAGGGTATAATGCTTTCCTCAGAACATTCAACAGATGGAGCAAAGCCTTAGCC[AG]ATGAATAGGACACTTG
66057 IS (AG) TGTAATAGACATGCTAATGCACCTGGAGGTGTCGTCAGACATTT
67477 I A GCACCTTCTTCATTACAGTGCTATAAGGTATTTGGATTTACAA
67477 P T A CGCGCCGAGGTTGCAAATTTGGAATTCAACCY
67477 P C A ATGACGTGGCAGACCTGCAAATTTGGAATTCAACY
67477 T T A ATCAGGTTGAATTCCAAATTTGCAATGTAAATCCAAATACCTTATAGCACTGTAATGAAGAAGGTGCAT
67477 T C A ATCAGGTTGAATTCCAAATTTGCAGTGTAAATCCAAATACCTTATAGCACTGTAATGAAGAAGGTGCAT
TGGGTACATTTAAACAATGCACCTTCTTCATTACAGTGCTATAAGGTATTTGGATTTACA[TC]TGCAAATTTGGAATTCA
67477 IS (TC) ACCTGATTTCATTTTCTTCCCTAAATCTCAACATATATATTAC
67542 I S CCCATCAGAGAAGCCTCCCCCGCT
67542 P C S ATGACGTGGCAGACGGCTCCAGGGACTCY
67542 P T S CGCGCCGAGGAGCTCCAGGGACTCAY
67542 T C S CCACTGAGTCCCTGGAGCCGCGGGGGAGGCTTCTCTGATGGGCA
67542 T T S CCACTGAGTCCCTGGAGCTGCGGGGGAGGCTTCTCTGATGGGCA
TGGCTCCCAAGCCCTCCTCGGAAGTCACACTCTACGTTATTCCCACTGAGTCCCTGGAGC[CT]GCGGGGGAGGCTTC
67542 IS (CT) TCTGATGGGCAAGTGTTCAGGTCACATTTCAGAAGAGGATGTGGGA
67633 I A AGCAAATTAACTTATGCAAAGCTGATTCATACAATTTTGAAACATCTTTT
67633 P A A CGCGCCGAGGATACCATTTCAATATTAAATAGTATTTAGATTATY
67633 P C A ATGACGTGGCAGACCTACCATTTCAATATTAAATAGTATTTAGATTATY
AGCCATAATCTAAATACTATTTAATATTGAAATGGTATAAAGATGTTTCAAAATTGTATGAATCAGCTTTGCATAAGTTAA
67633 T A A TTTGCTAT
AGCCATAATCTAAATACTATTTAATATTGAAATGGTAGAAAGATGTTTCAAAATTGTATGAATCAGCTTTGCATAAGTTA
67633 T C A ATTTGCTAT
TGTGGTTTGATAGCAAATTAACTTATGCAAAGCTGATTCATACAATTTTGAAACATCTTT[AC]TACCATTTCAATATTAAA
67633 IS (AC) TAGTATTTAGATTATGGCTGTGCTCAGTGGCTCATGCCTCTA
67789 I S GCACTCCCCATTGGTCCAAATGAGTTTTGCTATACGAT
67789 P T S CGCGCCGAGGAGATGCTGATAATAATAGCAGCY
67789 P C S ATGACGTGGCAGACGGATGCTGATAATAATAGCAGY
67789 T T S CACTGCTGCTATTATTATCAGCATCTTCGTATAGCAAAACTCATTTGGACCAATGGGGAGTGCGT
67789 T C S CACTGCTGCTATTATTATCAGCATCCTCGTATAGCAAAACTCATTTGGACCAATGGGGAGTGCGT
AGGATTAACGAGGCAATGGTTTTAGCAGAATAATCCACTGCTGCTATTATTATCAGCATC[TC]TCGTATAGCAAAACTC
67789 IS (TC) ATTTGGACCAATGGGGAGTGCGTTAAGTTGGTCTGAAGTAGGGC
67883 I A TGTTCCAAAAAGGAATGCTAATATCTCCTAATTGGAAATTGTCTCA
67883 P C A ATGACGTGGCAGACCTAGCTCTCTCTTAGACTTGGY
67883 P T A CGCGCCGAGGTTAGCTCTCTCTTAGACTTGGY
67883 T C A AGTGCCAAGTCTAAGAGAGAGCTAGGAGACAATTTCCAATTAGGAGATATTAGCATTCCTTTTTGGAACATT
67883 T T A AGTGCCAAGTCTAAGAGAGAGCTAAGAGACAATTTCCAATTAGGAGATATTAGCATTCCTTTTTGGAACATT
AAGAAGTTGAATGAATGTTCCAAAAAGGAATGCTAATATCTCCTAATTGGAAATTGTCTC[CT]TAGCTCTCTCTTAGACT
67883 IS (CT) TGGCACTTTAGAGTGACATTGATAAATGCTTAGCAAAGTTTCT
67947 I A GCCACAGGGCTAGGGCCATGCTGA
67947 P T A CGCGCCGAGGTGGGCTCGAGTGACY
67947 P C A ATGACGTGGCAGACCGGGCTCGAGTGACY
67947 T T A GGCAGTCACTCGAGCCCACAGCATGGCCCTAGCCCTGTGGCAG
67947 T C A GGCAGTCACTCGAGCCCGCAGCATGGCCCTAGCCCTGTGGCAG

FIGURE 129D

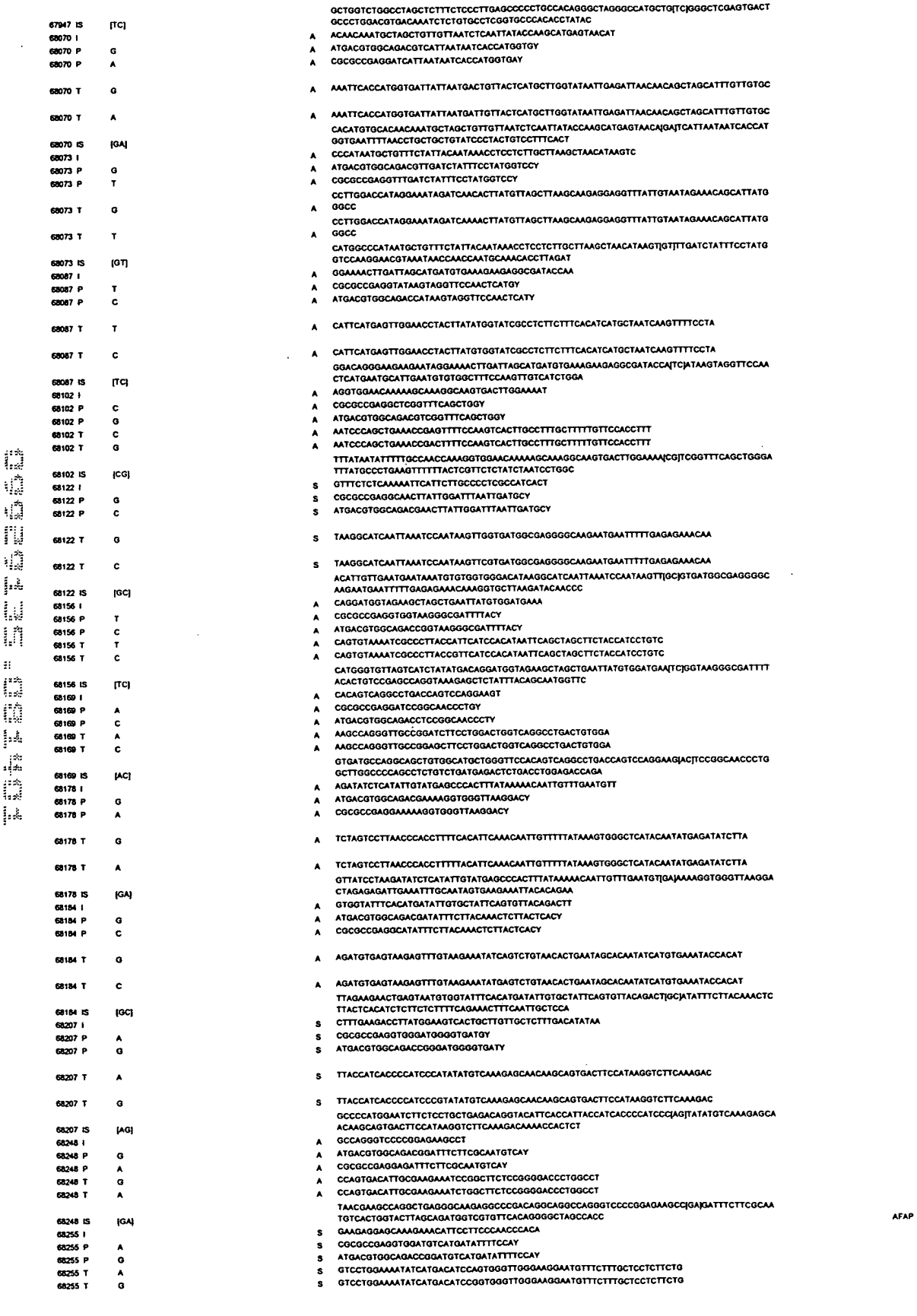

67947 IS [TC]
68070 I
68070 P G
68070 P A
68070 T G
68070 T A
68070 IS [GA]
68073 I
68073 P G
68073 P T
68073 T G
68073 T T
68073 IS [GT]
68087 I
68087 P T
68087 P C
68087 T T
68087 T C
68087 IS [TC]
68102 I
68102 P C
68102 P G
68102 T C
68102 T G
68102 IS [CG]
68122 I
68122 P G
68122 P C
68122 T G
68122 T C
68122 IS [GC]
68156 I
68156 P T
68156 P C
68156 T T
68156 T C
68156 IS [TC]
68169 I
68169 P A
68169 P C
68169 T A
68169 T C
68169 IS [AC]
68178 I
68178 P G
68178 P A
68178 T G
68178 T A
68178 IS [GA]
68184 I
68184 P G
68184 P C
68184 T G
68184 T C
68184 IS [GC]
68207 I
68207 P A
68207 P G
68207 T A
68207 T G
68207 IS [AG]
68248 I
68248 P G
68248 P A
68248 T G
68248 T A
68248 IS [GA]
68255 I
68255 P A
68255 P G
68255 T A
68255 T G
AFAP

FIGURE 129D

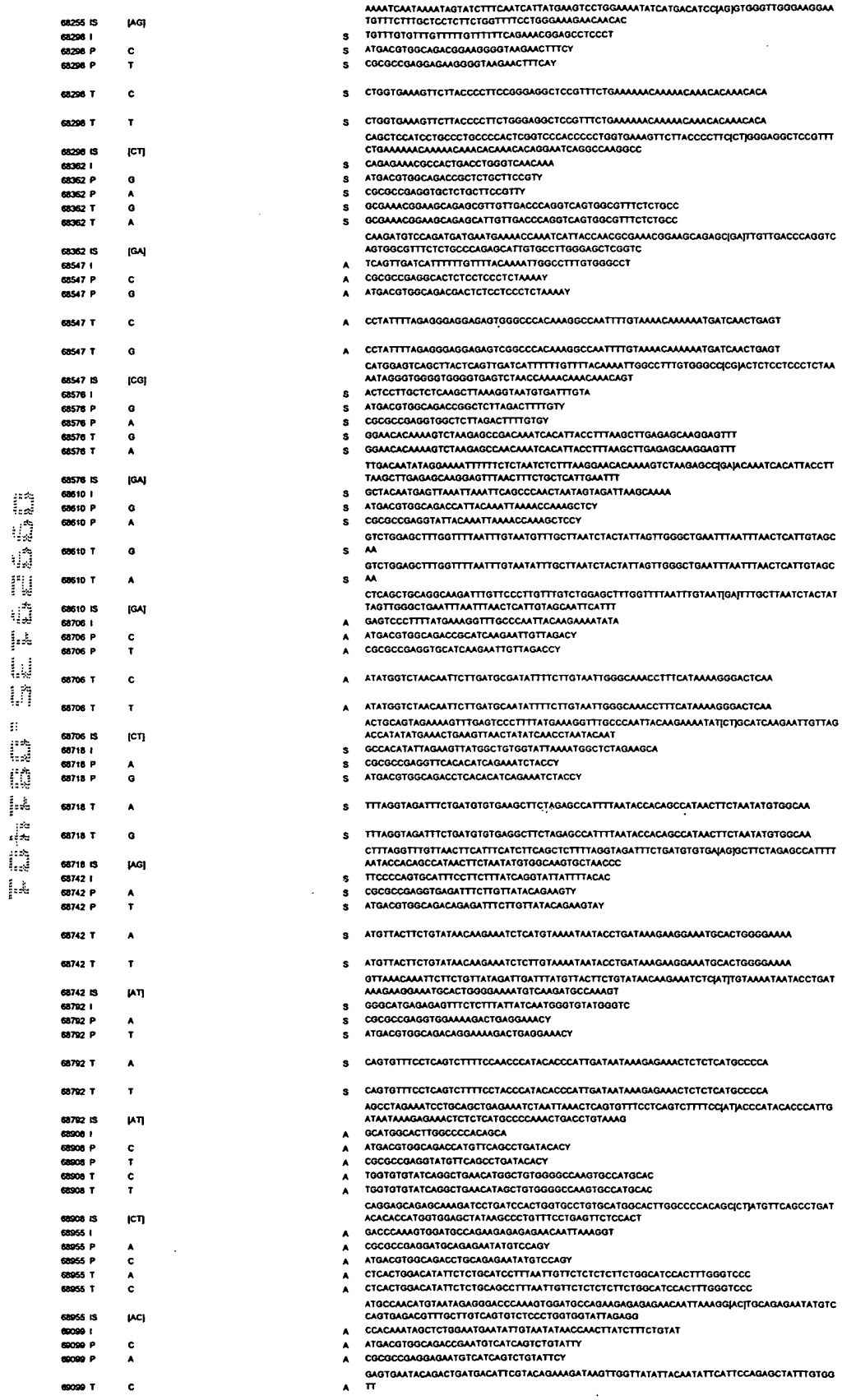


FIGURE 129D

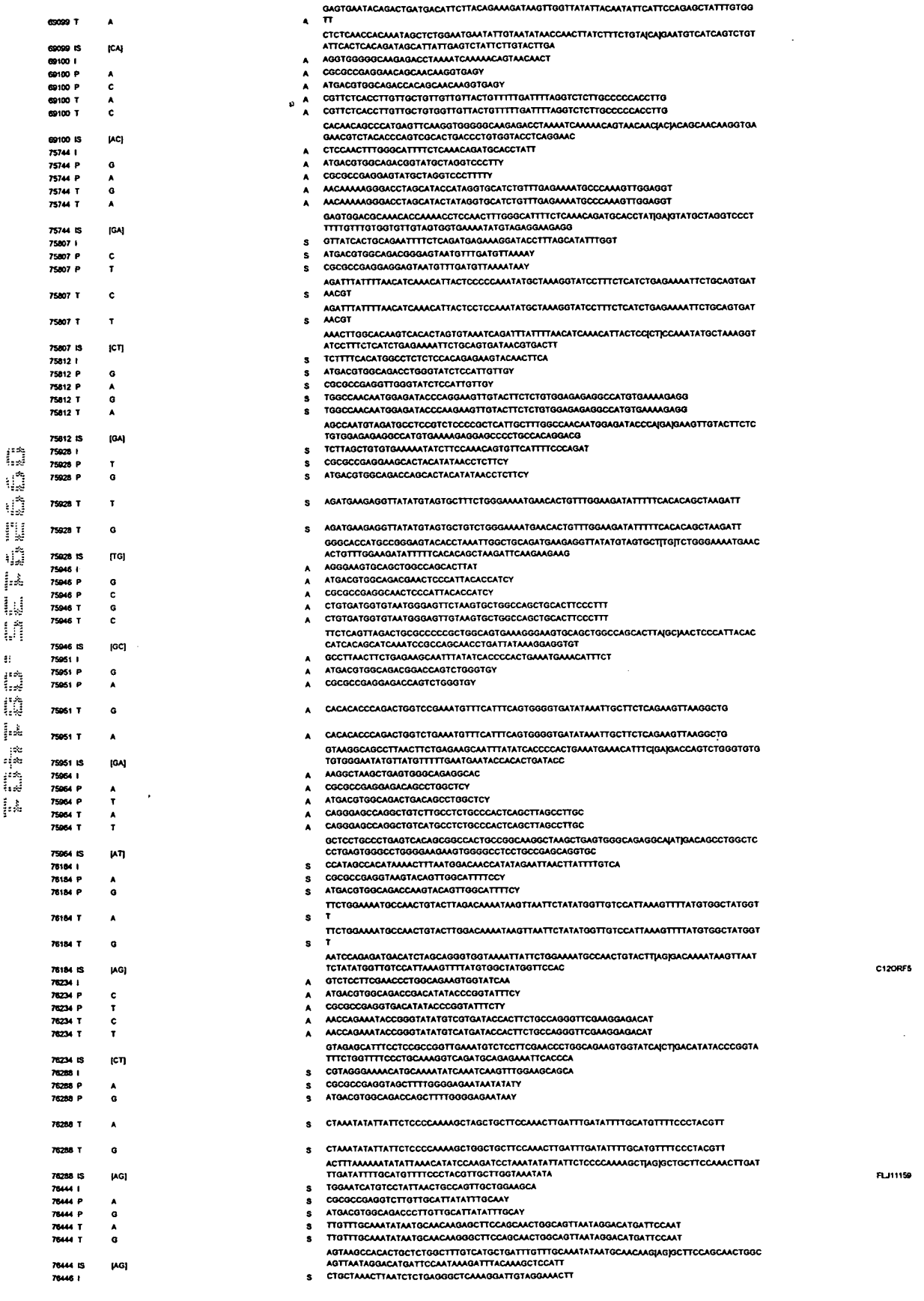


FIGURE 129D

76446 P	T	S	CGCGCCGAGGATTCACAGAATGAGACTGAACY		
76446 P	C	S	ATGACGTGGCAGACGTTCACAGAATGAGACTGAAY		
76446 T	T	S	CAAAGTTCAGTCTCATTCTGTGAATAGTTTCCTACAATCCTTTGAGCCCTCAGAGATTAAGTTTAGCAGGT		
76446 T	C	S	CAAAGTTCAGTCTCATTCTGTGAACAGTTTCCTACAATCCTTTGAGCCCTCAGAGATTAAGTTTAGCAGGT		
76446 IS	[TC]		GGCTGGATTCTGCGTGGTGATAGCAGAATTCCCTGGCAAAGTTCAGTCTCATTCTGTGAA[TC]AGTTTCCTACAATCC TTTGAGCCCTCAGAGATTAAGTTTAGCAGGTTTCCAAAAAAAAGC		
76513 I		A	TGTACATGTCACTAGGAGCATCCCTGATCTCAAAAAACTCTGA		
76513 P	C	A	ATGACGTGGCAGACCCACCCCTCCTGTGY		
76513 P	T	A	CGCGCCGAGGTCACCCCTCCTGTGAY		
76513 T	C	A	GACTTCACAGGAGGGGGTGGCAGAGTTTTTTGAGATCAGGGATGCTCCTAGTGACATGTACAAG		
76513 T	T	A	GACTTCACAGGAGGGGGTGACAGAGTTTTTTGAGATCAGGGATGCTCCTAGTGACATGTACAAG		
76513 IS	[CT]		TGGCTTTCTTCATGATCTTGTACATGTCACTAGGAGCATCCCTGATCTCAAAAAACTCTG[CT]CACCCCTCCTGTGAAG TCCTCCATGGCCTCTGTGGTGTTCCCACCTTTCAGAGCTTCGTA		CAPN3
76642 I		S	TTACTATATGTAATAGACTTTATTTTTCAAAATAAAATTAGAATTAACAAAAAAATCATAA		
76642 P	A	S	CGCGCCGAGGTAGTTTGGAAAGAGAAAAATGCY		
76642 P	G	S	ATGACGTGGCAGACCAGTTTGGAAAGAGAAAAATGCY		
76642 T	A	S	TATTGCATTTTTCTCTTTCCAAACTATATGATTTTTTTGTTAATTCTAATTTTATTTTGAAAAATAAAGTCTATTACATATA GTAA		
76642 T	G	S	TATTGCATTTTTCTCTTTCCAAACTGTATGATTTTTTTGTTAATTCTAATTTTATTTTGAAAAATAAAGTCTATTACATATA GTAA		
76642 IS	[AG]		CAAATACATTCTCTTAGGCTATGGCATTATAGATTTATTGCATTTTTCTCTTTCCAAACT[AG]TATGATTTTTTTTGTTAAT TCTAATTTTATTTTGAAAAATAAAGTCTATTACATATAGTAA		
76672 I		A	GCCCACCTGTCGCGCCTGGTT		
76672 P	A	A	CGCGCCGAGGATGCGCATGCGTACY		
76672 P	G	A	ATGACGTGGCAGACGTGCGCATGCGTACY		
76672 T	A	A	CTTAGTACGCATGCGCATACCAGGCGCGACAGGTGGGCGG		
76672 T	G	A	CTTAGTACGCATGCGCACACCAGGCGCGACAGGTGGGCGG		
76672 IS	[AG]		TTCCGGGACAACACAGCCCTAGGCGTCGCCTTCTGTGTCCGCCCACCTGTCGCGCCTGGT[AG]TGCGCATGCGTACT AAGTGCGAACCTTTCTCTGCCCCGCCCATAATCTTTAGATTTGCCT		
76693 I		A	CCGTCCTCGGGGGGGTCTCCTA		
76693 P	C	A	ATGACGTGGCAGACCCCCCCCACTTAAGTCY		
76693 P	T	A	CGCGCCGAGGTCCCCCCACTTAAGTCY		
76693 T	C	A	AAGAGACTTAAGTGGGGGGGAGGAGACCCCCCCGAGGACGGAG		
76693 T	T	A	AAGAGACTTAAGTGGGGGGAAGGAGACCCCCCCGAGGACGGAG		
76693 IS	[CT]		AGCGCCCCCGGGGGCTGACCAGGCCGTGGCCGGCGCCTCTCCGTCCTCGGGGGGGTCTCCT[CT]CCCCCCACTTAA GTCTCTTCTGCTCGCGGTCATGCCCTGGGCCTCAGGAAAGACCGCGCC		
76773 I		S	GGTGGCACCTTGCCCAGCGCT		
76773 P	C	S	ATGACGTGGCAGACGCGTGCATTCTCCTGY		
76773 P	T	S	CGCGCCGAGGACGTGCATTCTCCTGTY		
76773 T	C	S	TCCCACAGGAGAATGCACGCGCGCTGGGCAAGGTGCCACCCT		
76773 T	T	S	TCCCACAGGAGAATGCACGTGCGCTGGGCAAGGTGCCACCCT		
76773 IS	[CT]		CCTCAACTGACAGGAGACTGCTCACCACATGCCCTCCGAGTTCCCACAGGAGAATGCACG[CT]GCGCTGGGCAAGGT GCCACCCTCGGCTCGGGACGGCAGCCTTGGCGTCTGGCTACGGGCG		
76778 I		A	CCACCTCCTAAGCCTAACCCAGGCAGATGT		
76778 P	A	A	CGCGCCGAGGAAGGCAGGTGGCAY		
76778 P	G	A	ATGACGTGGCAGACGAGGCAGGTGGCAY		
76778 T	A	A	ACGGTGCCACCTGCCTTCATCTGCCTGGGTTAGGCTTAGGAGGTGGGC		
76778 T	G	A	ACGGTGCCACCTGCCTCCATCTGCCTGGGTTAGGCTTAGGAGGTGGGC		
76778 IS	[AG]		GCTGCCTCCTTCCCGCCTCTGCATTGAACGCCCACCTCCTAAGCCTAACCCAGGCAGATG[AG]AGGCAGGTGGCACC GTGGCAGCCCTGGGGAGTGGGAGGAGGTGGGCCTGGGGGGCAGGCC		
76802 I		A	GGCAGGGCTGCTCTGCAGGGGT		
76802 P	G	A	ATGACGTGGCAGACGCGGCGTGAGGGY		
76802 P	A	A	CGCGCCGAGGACGGCGTGAGGGY		
76802 T	G	A	GTGCCCCTCACGCCGCCCCCTGCAGAGCAGCCCTGCCAC		
76802 T	A	A	GTGCCCCTCACGCCGTCCCCTGCAGAGCAGCCCTGCCAC		
76802 IS	[GA]		CCGACAGGGACAGACAGAACGAGCTACAGCGCTCAGGGTGGCAGGGCTGCTCTGCAGGGG[GA]CGGCGTGAGGGG CACAGGCAGGGCATCGCACACTCGCCACAGCCCCAGGAGGCACCGCAC		
76808 I		A	CCAGCCCCTCTTTGCAGACAGCCGA		
76808 P	C	A	ATGACGTGGCAGACCGAGGAGAGTGTCCTAGY		
76808 P	T	A	CGCGCCGAGGTGAGGAGAGTGTCCTAGGY		
76808 T	C	A	GCTGCCTAGGACACTCTCCTCGCGGCTGTCTGCAAAGAGGGGCTGGGG		
76808 T	T	A	GCTGCCTAGGACACTCTCCTCACGGCTGTCTGCAAAGAGGGGCTGGGG		
76808 IS	[CT]		CATCTTGGCCTTCTGATCCCTGTGTGATCCTTGACCCCAGCCCCTCTTTGCAGACAGCCG[CT]GAGGAGAGTGTCCTA GGCAGCGTCCTGCTCCCCAGCTACAATATTAGACCAGATGGGCCG		
76952 I		S	CCAGGCTTCGATTCTATTTGTTACTGTTCTTCTCTCTTTCC		
76952 P	A	S	CGCGCCGAGGTAGAAGCAGACAGCAGTAY		
76952 P	T	S	ATGACGTGGCAGACAAGAAGCAGACAGCAGTY		
76952 T	A	S	TCGGTACTGCTGTCTGCTTCTAGAAAGAGAGAAGAAACAGTAACAAATAGAATCGAAGCCTGGAA		
76952 T	T	S	TCGGTACTGCTGTCTGCTTCTTGAAAGAGAGAAGAAACAGTAACAAATAGAATCGAAGCCTGGAA		
76952 IS	[AT]		CCAGAGAGAAGACCTTCAAGCAATGGCCCTGGTAAGCATTCGGTACTGCTGTCTGCTTCT[AT]GAAAGAGAGAAGAAC AGTAACAAATAGAATCGAAGCCTGGAAAGTTCAAAAATTTGCTTT		
77012 I		A	GGTCTGTGCACCTAAATACTTTTAAAAGTAGAGATTCCATTAATGAA		
77012 P	T	A	CGCGCCGAGGTGGTGACAAAATAATTATAGAGTGY		
77012 P	C	A	ATGACGTGGCAGACCGGTGACAAAATAATTATAGAGTGY		
77012 T	T	A	ATACCACTCTATAATTATTTTGTCACCATCATTAATGGAATCTCTACTTTTAAAAGTATTTAGGTGCACAGACCAC		
77012 T	C	A	ATACCACTCTATAATTATTTTGTCACCGTCATTAATGGAATCTCTACTTTTAAAAGTATTTAGGTGCACAGACCAC		
77012 IS	[TC]		CTCTTGTTAGAAGTGGTCTGTGCACCTAAATACTTTTAAAAGTAGAGATTCCATTAATGA[TC]GGTGACAAAATAATTAT AGAGTGGTATGCCATTAACAAATTAAATGAAGGTATTGAGAAA		
77040 I		S	AGGAACACTGGTTTGCAGGAATCTGGCCCA		
77040 P	G	S	ATGACGTGGCAGACCGGGGCCCATGATY		
77040 P	A	S	CGCGCCGAGGTGGGGCCCATGATTTY		
77040 T	G	S	TGGCAAATCATGGGCCCCGGGGCCAGATTCCTGCAAACCAGTGTTCCTGC		
77040 T	A	S	TGGCAAATCATGGGCCCCAGGGCCAGATTCCTGCAAACCAGTGTTCCTGC		
77040 IS	[GA]		CGTCTGGGAGCCATATGCTTTGAAATGCTCTGTTTGCCAAAATGGCAAATCATGGGCCCC[GA]GGGCCAGATTCCTG CAAACCAGTGTTCCTGCAGGGACCTTGGGCTGTCTCATCAATCCAA		
77107 I		S	ACTGACAATATATTAGCACGGAAATGCAATTCAAATATATAATTTCTACTTAATTTTCATC		
77107 P	A	S	CGCGCCGAGGTTAACAAGATATTAACTTAGGAAAGCY		
77107 P	C	S	ATGACGTGGCAGACGTAACAAGATATTAACTTAGGAAAGCY		
77107 T	A	S	TAGGGCTTTCCTAAGTTAATATCTTGTTAAATGAAAATTAAGTAGAAATTATATATTTGAATTGCATTTCCGTGCTAATAT ATTGTCAGT		
77107 T	C	S	TAGGGCTTTCCTAAGTTAATATCTTGTTACATGAAAATTAAGTAGAAATTATATATTTGAATTGCATTTCCGTGCTAATAT ATTGTCAGT		
77107 IS	[AC]		GTTATACTTAAAGTAGAGACATGTTAGTGAGTAGGGCTTTCCTAAGTTAATATCTTGTTA[AC]ATGAAAATTAAGTAGAA ATTATATATTTGAATTGCATTTCCGTGCTAATATATTGTCAGT		
77139 I		A	TTATATAATATCATTTTAAGATAGATTCACAAACACATAAAGAAAAAAGAATAAGCATTAA		

FIGURE 129D

77139	P	T	A	CGCGCCGAGGTGAAAGGATCAAATGTATACAACY	
77139	P	C	A	ATGACGTGGCAGACCGAAAGGATCAAATGTATACAACY	
77139	T	T	A	GAGTGTTGTATACATTTGATCCTTTCATAATGCTTATTCTTTTTTCTTTATGTGTTTGTGAATCTATCTTAAAATGATATT ATATAA	
77139	T	C	A	GAGTGTTGTATACATTTGATCCTTTCGTAATGCTTATTCTTTTTTCTTTATGTGTTTGTGAATCTATCTTAAAATGATATT ATATAA	
77139	IS	[TC]		TTATATAATATCATTTTAAGATAGATTCACAAACACATAAAGAAAAAAGAATAAGCATTA[TC]GAAAGGATCAAATGTATA CAACACTCAAAGAGTATAAATTCTAATTGTTAGAAAAGTTCA	
77209	I		S	GCACAGCCACCTCCAAGAGCACCCAT	
77209	P	C	S	ATGACGTGGCAGACGAGCCTCTTCAGCCAY	
77209	P	T	S	CGCGCCGAGGAAGCCTCTTCAGCCAY	
77209	T	C	S	GCTGTGGCTGAAGAGGCTCTGGGTGCTCTTGGAGGTGGCTGTGCAT	
77209	T	T	S	GCTGTGGCTGAAGAGGCTTTGGGTGCTCTTGGAGGTGGCTGTGCAT	
77209	IS	[CT]		AGCTTACTCTGGCTTTGCCGAGATGGGGCTGCCCCAGCCAGGGCTGTGGCTGAAGAGGC[CT]TGGGTGCTCTTGG AGGTGGCTGTGCATGTGGTCGTGGGTAAAGTGCTTCTGATATTGTTT	
77215	I		S	CTCTACGAGTTTTTCTTGCCGTTTACTTTGCGCTTCTTCTAT	
77215	P	C	S	ATGACGTGGCAGACGCTATAAGAAAGTTACAAGAAACATY	
77215	P	T	S	CGCGCCGAGGACTATAAGAAAGTTACAAGAAACATTAY	
77215	T	C	S	AAAGTAATGTTTCTTGTAACTTTCTTATAGCTAGAAGAAGCGCAAAGTAAACGGCAAGAAAAACTCGTAGAGAA	
77215	T	T	S	AAAGTAATGTTTCTTGTAACTTTCTTATAGTTAGAAGAAGCGCAAAGTAAACGGCAAGAAAAACTCGTAGAGAA	
77215	IS	[CT]		TGAAAACGTGCACTTTTAAATGTTTAGATGAAAGTAATGTTTCTTGTAACTTTCTTATAG[CT]TAGAAGAAGCGCAAAGT AAACGGCAAGAAAAACTCGTAGAGAAACACAAGGAAATACGTC	
77228	I		A	GGAAGCACATGAACGAGGAAAAGGGGACATCCA	
77228	P	C	A	ATGACGTGGCAGACCTAAATCTTACACCTATGAAGGATY	
77228	P	T	A	CGCGCCGAGGTTAAATCTTACACCTATGAAGGATY	
77228	T	C	A	GATAATCCTTCATAGGTGTAAGATTTAGGGATGTCCCCTTTTCCTCGTTCATGTGCTTCCAC	
77228	T	T	A	GATAATCCTTCATAGGTGTAAGATTTAAGGATGTCCCCTTTTCCTCGTTCATGTGCTTCCAC	
77228	IS	[CT]		ATGACTACGATGGAGAAGAATATGATGTGGAAGCACATGAACGAGGAAAAGGGGACATCC[CT]TAAATCTTACACCTA TGAAGGATTATCCCATTAACAGCAGAAGGCCAAGCCACATTGGAG	
77232	I		A	GAGGCAGACCTGAGAACAACAAACTTTCTTTAGTGGAGTT	
77232	P	G	A	ATGACGTGGCAGACGCATAGTATCTCTCTTAATTACCCY	
77232	P	A	A	CGCGCCGAGGACATAGTATCTCTCTTAATTACCCY	
77232	T	G	A	AGATGGGTAATTAAGAGAGATACTATGCACTCCACTAAAGAAAGTTTGTTGTTCTCAGGTCTGCCTCAT	
77232	T	A	A	AGATGGGTAATTAAGAGAGATACTATGTACTCCACTAAAGAAAGTTTGTTGTTCTCAGGTCTGCCTCAT	
77232	IS	[GA]		ATGGGCAAGGCTTTGATAAATGAGGCAGACCTGAGAACAACAAACTTTCTTTAGTGGAGT[GA]CATAGTATCTCTCTTA ATTACCCATCTCCCCTCTCACTAGTAGCTAGCGAACCCTGTCCC	
77385	I		A	CTGGGAGGGCTGACCCTCTTTTCAGTCAGT	
77385	P	G	A	ATGACGTGGCAGACGTCTTTTCCCTTACCTGTTTY	
77385	P	A	A	CGCGCCGAGGATCTTTTCCCTTACCTGTTTTY	
77385	T	G	A	GCAGAAAACAGGTAAGGGAAAAGACCTGACTGAAAAGAGGGTCAGCCCTCCCAGCA	
77385	T	A	A	GCAGAAAACAGGTAAGGGAAAAGATCTGACTGAAAAGAGGGTCAGCCCTCCCAGCA	
77385	IS	[GA]		ATGGTGCTCTATAGTCTTCAGTGCCACCATGCTGGGAGGGCTGACCCTCTTTTCAGTCAG[GA]TCTTTTCCCTTACCT GTTTTCTGCTTGGGTTCCAAATAGGATTTTTGTCTAGAGGGTGAA	
77530	I		A	GGTTGATGGACATTTTGTAGAACAGGTACTCCCTAGGAGCA	
77530	P	C	A	ATGACGTGGCAGACCAGATAATTTGAAAAGTGAATGAATGY	
77530	P	T	A	CGCGCCGAGGTAGATAATTTGAAAAGTGAATGAATGY	
77530	T	C	A	ACTGCATTCATTCACTTTTCAAATTATCTGGCTCCTAGGGAGTACCTGTTCTACAAAATGTCCATCAACCCT	
77530	T	T	A	ACTGCATTCATTCACTTTTCAAATTATCTAGCTCCTAGGGAGTACCTGTTCTACAAAATGTCCATCAACCCT	
77530	IS	[CT]		AAGCTTGATAGTGTGGGTAGGGTTGATGGACATTTTGTAGAACAGGTACTCCCTAGGAGC[CT]AGATAATTTGAAAAG TGAATGAATGCAGTCTGGATTTCATACCACTTAATTTAACTCTTC	
77539	I		S	CAGCCTCGGGAACCTAAACAGAAGCAACTGTGT	
77539	P	C	S	ATGACGTGGCAGACGATCTTGTTTGGGGCTTTY	
77539	P	T	S	CGCGCCGAGGAATCTTGTTTGGGGCTTTY	
77539	T	C	S	AATCAAAGCCCCAAACAAGATCCACAGTTGCTTCTGTTTAGGTTCCCGAGGCTGTT	
77539	T	T	S	AATCAAAGCCCCAAACAAGATTCACAGTTGCTTCTGTTTAGGTTCCCGAGGCTGTT	
77539	IS	[CT]		GTCTTAGAGACCCAAATATAGCACTTCTAACAATCCTATAATCAAAGCCCCAAACAAGAT[CT]CACAGTTGCTTCTGTTT AGGTTCCCGAGGCTGTTGGTTTTCTCATTCCCCAGGAAGCCTT	
77574	I		S	GCTCCAGGCCACAGACTTGATGCCCAT	
77574	P	C	S	ATGACGTGGCAGACGGGACCACTCGTAAGCY	
77574	P	T	S	CGCGCCGAGGAGGACCACTCGTAAGCY	
77574	T	C	S	CAGCGCTTACGAGTGGTCCCTGGGCATCAAGTCTGTGGCCTGGAGCCC	
77574	T	T	S	CAGCGCTTACGAGTGGTCCTTGGGCATCAAGTCTGTGGCCTGGAGCCC	
77574	IS	[CT]		ATTCTGCTGTACTCATTGGATGGCCGGTTGTTGTCCACGTACAGCGCTTACGAGTGGTCC[CT]TGGGCATCAAGTCTG TGGCCTGGAGCCCCAGCAGTCAGTTCCTGGCAGTTGGGAGCTATG	WDR8
77681	I		A	GCAGGGGAGGGGTACGGGGAGTAA	
77681	P	C	A	ATGACGTGGCAGACCTGTACAGAAGGAGGCAY	
77681	P	T	A	CGCGCCGAGGTTGTACAGAAGGAGGCAY	
77681	T	C	A	GATCTGCCTCCTTCTGTACAGTACTCCCCGTACCCCTCCCCTGCCA	
77681	T	T	A	GATCTGCCTCCTTCTGTACAATACTCCCCGTACCCCTCCCCTGCCA	
77681	IS	[CT]		GGTGGTGGCAAGGACCACCTGATAAGGCTGTGTCCTGGCAGGGGAGGGGGTACGGGGAGTA[CT]TGTACAGAAGGAG GCAGATCATATGGTGCTAACCTATCTCTCTTTTTTGTTGCAGAAGGA	
77726	I		A	ACCCCCACTATTCCTGCCTAGTGGAA	
77726	P	C	A	ATGACGTGGCAGACCGGTTTTCAAGACGGAAAY	
77726	P	T	A	CGCGCCGAGGTGGTTTTCAAGACGGAAAY	
77726	T	C	A	TTACTTTCCGTCTTGAAAACCGTCCACTAGGCAGGAATAGTGGGGGTGT	
77726	T	T	A	TTACTTTCCGTCTTGAAAACCATCCACTAGGCAGGAATAGTGGGGGTGT	
77726	IS	[CT]		TCACTGGGGCCATTTTGCTAGCTCCATTTATCAACACCCCCACTATTCCTGCCTAGTGGA[CT]GGTTTTCAAGACGGA AAGTAAGATGTCGTAAGATTAAAAGATCTTTCAGATCATTTCTTA	
77831	I		A	GCCCAAGTCTGAAATGAACCAAATTGCATGAGCTCTATTT	
77831	P	A	A	CGCGCCGAGGATGTGCCCCTCTTGTAAY	
77831	P	G	A	ATGACGTGGCAGACGTGTGCCCCTCTTGTY	
77831	T	A	A	TATATTACAAGAGGGGCACATAATAGAGCTCATGCAATTTGGTTCATTTCAGACTTGGGCCA	
77831	T	G	A	TATATTACAAGAGGGGCACACAATAGAGCTCATGCAATTTGGTTCATTTCAGACTTGGGCCA	
77831	IS	[AG]		AGCAGCTTTCACCTAAAGCTGGCCCAAGTCTGAAATGAACCAAATTGCATGAGCTCTATT[AG]TGTGCCCCTCTTGTAA TATAAAAATCTAATAAAAGTAAATAGCAAAGTCTAATAGATAAT	
77834	I		S	TGCCTAATTCAGTGTACACTCATTTGCAAGTAAAGCATACATTTAACAGTTCTAATAAT	
77834	P	T	S	CGCGCCGAGGAAATCAGTTGAATGTCATTACAGY	
77834	P	C	S	ATGACGTGGCAGACGAATCAGTTGAATGTCATTACAGY	
77834	T	T	S	TATACTGTAATGACATTCAACTGATTTTTATTAGAACTGTTAAATGTATGCTTTACTTGCAAATGAGTGTACACTGAATT AGGCAAG	
77834	T	C	S	TATACTGTAATGACATTCAACTGATTCTTATTAGAACTGTTAAATGTATGCTTTACTTGCAAATGAGTGTACACTGAATT AGGCAAG	

FIGURE 129D

				TTTGCCTTTTATTTTGTTGAGTTTTCCTGCCCTGTATACTGTAATGACATTCAACTGATT[TC]TTATTAGAACTGTTAAAT
77834	IS	[TC]		GTATGCTTTACTTGCAAATGAGTGTACACTGAATTAGGCAAG
77836	I		S	CCTCTGAAATGGGCTTGGAAGTTTCTAATCCCAAAGACTTCT
77836	P	G	S	CGCGCCGAGGCAACCCAGGATCTGGAY
77836	P	C	S	ATGACGTGGCAGACGAACCCAGGATCTGGATY
77836	T	G	S	TGCTATCCAGATCCTGGGTTGGAAGTCTTTGGGATTAGAAACTTCCAAGCCCATTTCAGAGGCT
77836	T	C	S	TGCTATCCAGATCCTGGGTTCGAAGTCTTTGGGATTAGAAACTTCCAAGCCCATTTCAGAGGCT
				CCCACGTTTTCAACTGAGTAAATATCTAAATATTTTTGCTTGCTATCCAGATCCTGGGTT[GC]GAAGTCTTTGGGATTA
77836	IS	[GC]		GAAACTTCCAAGCCCATTTCAGAGGCTTCCTAGTCCTTGGGAGG
77945	I		S	GCTGGGGCCTGAGGAGCACCGT
77945	P	C	S	ATGACGTGGCAGACGGTCCGGCCAGAGY
77945	P	T	S	CGCGCCGAGGAGTCCGGCCAGAGY
77945	T	C	S	GGCCCTCTGGCCGGACCCGGTGCTCCTCAGGCCCCAGCGC
77945	T	T	S	GGCCCTCTGGCCGGACTCGGTGCTCCTCAGGCCCCAGCGC
				GGACCGCGGCGGCCCGCTAGACTCTGGTCGGGTCTGGAGTATTGGGCCCTCTGGCCGGAC[CT]CGGTGCTCCTCAG
77945	IS	[CT]		GCCCCAGCGCCCGGCACTGAGCCTCGCATCCACATTCGCAGAGTAAA
77999	I		S	TCACACTGACTTGGCGAGCAAGAGCACCT
77999	P	C	S	ATGACGTGGCAGACGGAGAGACGGCTCTGY
77999	P	T	S	CGCGCCGAGGAGAGACGGCTCTGY
77999	T	C	S	GCAACAGAGCCGTCTCTCCGGTGCTCTTGCTCGCCAAGTCAGTGTGAGG
77999	T	T	S	GCAACAGAGCCGTCTCTCTGGTGCTCTTGCTCGCCAAGTCAGTGTGAGG
				GAGGACCCACAGGGTAGACCGCCTCCTTGGCCGGTGACCCCTGCAACAGAGCCGTCTCT[CT]GGTGCTCTTGCTC
77999	IS	[CT]		GCCAAGTCAGTGTGAGGCCCGGACGGAGGAAGCCCTGCTTGCTTCTC
78088	I		S	CCATTATCTTCATGTCACCCCATTTGGTTGAGCAGATGATAA
78088	P	A	S	CGCGCCGAGGTTGTTGGGATGAATGACAAY
78088	P	G	S	ATGACGTGGCAGACCTGTTGGGATGAATGACAAY
78088	T	A	S	TTTTTTGTCATTCATCCCAACAATATCATCTGCTCAACCAAATGGGGTGACATGAAGATAATGGCC
78088	T	G	S	TTTTTTGTCATTCATCCCAACAGTATCATCTGCTCAACCAAATGGGGTGACATGAAGATAATGGCC
				AAACACACATTTTAGAACATGGGGGAGGGGGAGATACTTTTTTTGTCATTCATCCCAACA[AG]TATCATCTGCTCAACC
78088	IS	[AG]		AAATGGGGTGACATGAAGATAATGGCCCACGTAAACACGTTTGG
78090	I		S	CTCTTCTGAGTCCTACCAGTCTACCTTCCTGATATGCTCT
78090	P	C	S	ATGACGTGGCAGACGAGTCTCTTTCAGGGTCTY
78090	P	T	S	CGCGCCGAGGAAGTCTCTTTCAGGGTCTY
78090	T	C	S	CTGGAGACCCTGAAAGAGACTCGAGCATATCAGGAAGGTAGACTGGTAGGACTCAGAAGAGCT
78090	T	T	S	CTGGAGACCCTGAAAGAGACTTGAGCATATCAGGAAGGTAGACTGGTAGGACTCAGAAGAGCT
				TACCTTGTTCCCTTCATCTAGCTCAGATGGTAGGTCCCACTGGAGACCCTGAAAGAGACT[CT]GAGCATATCAGGAAG
78090	IS	[CT]		GTAGACTGGTAGGACTCAGAAGAGCTCATCCATTCTGATCATTTA
78122	I		A	GCACTTTAAGCTGTGCTATGTCGTGCCTCATTTGCA
78122	P	C	A	ATGACGTGGCAGACCGAATTACACCAAGCCTCY
78122	P	T	A	CGCGCCGAGGTGAATTACACCAAGCCTCY
78122	T	C	A	AACAGAGGCTTGGTGTAATTCGGCAAATGAGGCACGACATAGCACAGCTTAAAGTGCAA
78122	T	T	A	AACAGAGGCTTGGTGTAATTCAGCAAATGAGGCACGACATAGCACAGCTTAAAGTGCAA
				TGAGCTGCTGCTTGCTGGTTAGCTTGCACTTTAAGCTGTGCTATGTCGTGCCTCATTTGC[CT]GAATTACACCAAGCC
78122	IS	[CT]		TCTGTTAAAAAAAAACAAGATCTAAGTCAGAAATTTGGGTAATTG
78184	I		A	AGGCAGGCAACATTTACTCACTTTTTACACACTTCTGTTTCATATAGGT
78184	P	A	A	CGCGCCGAGGAAAACATGACAGAAGGTATAGAAY
78184	P	C	A	ATGACGTGGCAGACCAAACATGACAGAAGGTATAGAY
78184	T	A	A	TTCCTTCTATACCTTCTGTCATGTTTTCCTATATGAAACAGAAGTGTGTAAAAAGTGAGTAAATGTTGCCTGCCTTA
78184	T	C	A	TTCCTTCTATACCTTCTGTCATGTTTGCCTATATGAAACAGAAGTGTGTAAAAAGTGAGTAAATGTTGCCTGCCTTA
				AAAAAAATGCTAAGGCAGGCAACATTTACTCACTTTTTACACACTTCTGTTTCATATAGG[AC]AAACATGACAGAAGGTA
78184	IS	[AC]		TAGAAGGAAGTGTTTTTATTATAAGAAATGCTTAGAATGAATG
78194	I		S	TGAGCGGCTGGTAACCCAGCTCTGGA
78194	P	G	S	ATGACGTGGCAGACCCTAGGGCACTGAGAGY
78194	P	A	S	CGCGCCGAGGTCTAGGGCACTGAGAGAY
78194	T	G	S	TCAATCTCTCAGTGCCCTAGGCCAGAGCTGGGTTACCAGCCGCTCAGC
78194	T	A	S	TCAATCTCTCAGTGCCCTAGACCAGAGCTGGGTTACCAGCCGCTCAGC
				GTGGCGTTTTTCAGGCTAGCAAAACACATCCTCTGTTTGTTCAATCTCTCAGTGCCCTAG[GA]CCAGAGCTGGGTTAC
78194	IS	[GA]		CAGCCGCTCAGCTCAAGATCGCCTGTTGGGATGTTAAACGGGCTC
78215	I		S	GTGGGTTCCTGGTGTTGGTTAAAATGCCTTTTATTCCAT
78215	P	T	S	CGCGCCGAGGATGCTTTGGAAATAGTGCAY
78215	P	C	S	ATGACGTGGCAGACGTGCTTTGGAAATAGTGCY
78215	T	T	S	TGTCTGCACTATTTCCAAAGCATTGGAATAAAAGGCATTTTAACCAACACCAGGAACCCACGG
78215	T	C	S	TGTCTGCACTATTTCCAAAGCACTGGAATAAAAGGCATTTTAACCAACACCAGGAACCCACGG
				TATTAGAGCTGTCAGCCTAGGAGCCTACCCCAGTTTTGTGTCTGCACTATTTCCAAAGCA[TC]TGGAATAAAAGGCATT
78215	IS	[TC]		TTAACCAACACCAGGAACCCACGGGAATCTTTTCAAAGGATCTG
78216	I		S	CCTTAGGCTGATCTGATGCAGATCCTTTGAAAAGATTCCCT
78216	P	C	S	ATGACGTGGCAGACGTGGGTTCCTGGTGTY
78216	P	T	S	CGCGCCGAGGATGGGTTCCTGGTGTTY
78216	T	C	S	AACCAACACCAGGAACCCACGGGAATCTTTTCAAAGGATCTGCATCAGATCAGCCTAAGGAA
78216	T	T	S	AACCAACACCAGGAACCCATGGGAATCTTTTCAAAGGATCTGCATCAGATCAGCCTAAGGAA
				TGTCTGCACTATTTCCAAAGCATTGGAATAAAAGGCATTTTAACCAACACCAGGAACCCA[CT]GGGAATCTTTTCAAAG
78216	IS	[CT]		GATCTGCATCAGATCAGCCTAAGGAACACTGCTGTCGGTGATGA
78243	I		S	GCTGAGATTCCTCCTTGGTTGAGGAAAATAGAGTAACGACAATTTTACTAT
78243	P	C	S	ATGACGTGGCAGACGACTCTTTTGCCATAGTGTY
78243	P	G	S	CGCGCCGAGGCACTCTTTTGCCATAGTGTY
78243	T	C	S	TGGGACACTATGGCAAAAGAGTCTAGTAAAATTGTCGTTACTCTATTTTCCTCAACCAAGGAGGAATCTCAGCAA
78243	T	G	S	TGGGACACTATGGCAAAAGAGTGTAGTAAAATTGTCGTTACTCTATTTTCCTCAACCAAGGAGGAATCTCAGCAA
				TAGGTGTTGGCAACAGTGGTACCATTGAAATAAACCCATGGGACACTATGGCAAAAGAGT[CG]TAGTAAAATTGTCGT
78243	IS	[CG]		TACTCTATTTTCCTCAACCAAGGAGGAATCTCAGCAATTTGCAGC
78288	I		S	CCCCTTGAGGGCAAATAGCACATCTGTGGTTGATAA
78288	P	G	S	ATGACGTGGCAGACCAGCTATGACTAGATGTTTTTCY
78288	P	A	S	CGCGCCGAGGTAGCTATGACTAGATGTTTTTCAY
78288	T	G	S	AATGTGAAAAACATCTAGTCATAGCTGTATCAACCACAGATGTGCTATTTGCCCTCAAGGGGGC
78288	T	A	S	AATGTGAAAAACATCTAGTCATAGCTATATCAACCACAGATGTGCTATTTGCCCTCAAGGGGGC
				TGGGCTTCCAAAAACTTATGAAACATTGTGAAAAAATGTGAAAAACATCTAGTCATAGCT[GA]TATCAACCACAGATGT
78288	IS	[GA]		GCTATTTGCCCTCAAGGGGGCACGATGTATTTCACACCAGAGAT
78357	I		S	ACAGTGATGTAGACCACAGTAAAACAAGTCAGGTGGTCAC
78357	P	A	S	CGCGCCGAGGTTTCAATGAATTCTAAATGGTTGCY
78357	P	T	S	ATGACGTGGCAGACATTCAATGAATTCTAAATGGTTGCY
78357	T	A	S	TGATGCAACCATTTAGAATTCATTGAAATGACCACCTGACTTGTTTTACTGTGGTCTACATCACTGTTA
78357	T	T	S	TGATGCAACCATTTAGAATTCATTGAATTGACCACCTGACTTGTTTTACTGTGGTCTACATCACTGTTA
				GCCTCGAAGCAAAGCATATCAGATTGTCCAAAATGATGCAACCATTTAGAATTCATTGAA[AT]TGACCACCTGACTTGT
78357	IS	[AT]		TTTACTGTGGTCTACATCACTGTTAGTGTTGGATGTGGTTTTAA

FIGURE 129D

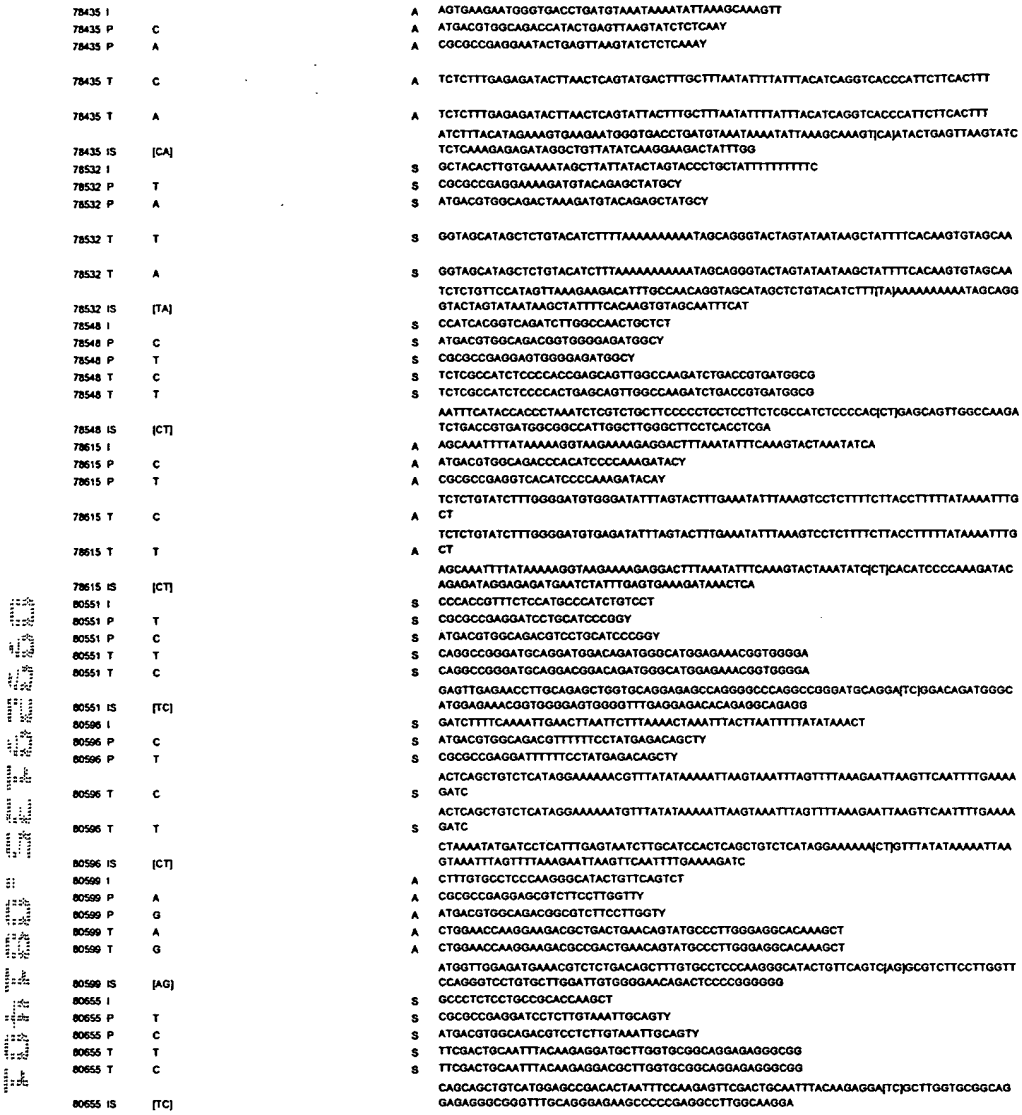

78435 I A AGTGAAGAATGGGTGACCTGATGTAAATAAAATATTAAAGCAAAGTT
78435 P C A ATGACGTGGCAGACCATACTGAGTTAAGTATCTCTCAAY
78435 P A A CGCGCCGAGGAATACTGAGTTAAGTATCTCTCAAAY
78435 T C A TCTCTTTGAGAGATACTTAACTCAGTATGACTTTGCTTTAATATTTTATTTACATCAGGTCACCCATTCTTCACTTT
78435 T A A TCTCTTTGAGAGATACTTAACTCAGTATTACTTTGCTTTAATATTTTATTTACATCAGGTCACCCATTCTTCACTTT
78435 IS [CA] ATCTTTACATAGAAAGTGAAGAATGGGTGACCTGATGTAAATAAAATATTAAAGCAAAGT[CA]ATACTGAGTTAAGTATC TCTCAAAGAGAGATAGGCTGTTATATCAAGGAAGACTATTTGG
78532 I S GCTACACTTGTGAAAATAGCTTATTATACTAGTACCCTGCTATTTTTTTTTTC
78532 P T S CGCGCCGAGGAAAAGATGTACAGAGCTATGCY
78532 P A S ATGACGTGGCAGACTAAAGATGTACAGAGCTATGCY
78532 T T S GGTAGCATAGCTCTGTACATCTTTTAAAAAAAAAATAGCAGGGTACTAGTATAATAAGCTATTTTCACAAGTGTAGCAA
78532 T A S GGTAGCATAGCTCTGTACATCTTTAAAAAAAAAAATAGCAGGGTACTAGTATAATAAGCTATTTTCACAAGTGTAGCAA
78532 IS [TA] TCTCTGTTCCATAGTTAAAGAAGACATTTGCCAACAGGTAGCATAGCTCTGTACATCTTT[TA]AAAAAAAAAATAGCAGG GTACTAGTATAATAAGCTATTTTCACAAGTGTAGCAATTTCAT
78548 I S CCATCACGGTCAGATCTTGGCCAACTGCTCT
78548 P C S ATGACGTGGCAGACGGTGGGGAGATGGCY
78548 P T S CGCGCCGAGGAGTGGGGAGATGGCY
78548 T C S TCTCGCCATCTCCCCACCGAGCAGTTGGCCAAGATCTGACCGTGATGGCG
78548 T T S TCTCGCCATCTCCCCACTGAGCAGTTGGCCAAGATCTGACCGTGATGGCG
78548 IS [CT] AATTTCATACCACCCTAAATCTCGTCTGCTTCCCCCTCCTCCTTCTCGCCATCTCCCCAC[CT]GAGCAGTTGGCCAAGA TCTGACCGTGATGGCGGCCATTGGCTTGGGCTTCCTCACCTCGA
78615 I A AGCAAATTTTATAAAAAGGTAAGAAAAGAGGACTTTAAATATTTCAAAGTACTAAATATCA
78615 P C A ATGACGTGGCAGACCCACATCCCCAAAGATACY
78615 P T A CGCGCCGAGGTCACATCCCCAAAGATACAY
78615 T C A TCTCTGTATCTTTGGGGATGTGGGATATTTAGTACTTTGAAATATTTAAAGTCCTCTTTTCTTACCTTTTTATAAAATTTG CT
78615 T T A TCTCTGTATCTTTGGGGATGTGAGATATTTAGTACTTTGAAATATTTAAAGTCCTCTTTTCTTACCTTTTTATAAAATTTG CT
78615 IS [CT] AGCAAATTTTATAAAAAGGTAAGAAAAGAGGACTTTAAATATTTCAAAGTACTAAATATC[CT]CACATCCCCAAAGATAC AGAGATAGGAGAGATGAATCTATTTGAGTGAAAGATAAACTCA
80551 I S CCCACCGTTTCTCCATGCCCATCTGTCCT
80551 P T S CGCGCCGAGGATCCTGCATCCCGGY
80551 P C S ATGACGTGGCAGACGTCCTGCATCCCGGY
80551 T T S CAGGCCGGGATGCAGGATGGACAGATGGGCATGGAGAAACGGTGGGGA
80551 T C S CAGGCCGGGATGCAGGACGGACAGATGGGCATGGAGAAACGGTGGGGA
80551 IS [TC] GAGTTGAGAACCTTGCAGAGCTGGTGCAGGAGAGCCAGGGGCCCAGGCCGGGATGCAGGA[TC]GGACAGATGGGC ATGGAGAAACGGTGGGGAGTGGGGTTTGAGGAGACACAGAGGCAGAGG
80596 I S GATCTTTTCAAAATTGAACTTAATTCTTTAAAACTAAATTTACTTAATTTTTATATAAACT
80596 P C S ATGACGTGGCAGACGTTTTTTCCTATGAGACAGCTY
80596 P T S CGCGCCGAGGATTTTTTCCTATGAGACAGCTY
80596 T C S ACTCAGCTGTCTCATAGGAAAAAACGTTTATATAAAAATTAAGTAAATTTAGTTTTAAAGAATTAAGTTCAATTTTGAAAA GATC
80596 T T S ACTCAGCTGTCTCATAGGAAAAAATGTTTATATAAAAATTAAGTAAATTTAGTTTTAAAGAATTAAGTTCAATTTTGAAAA GATC
80596 IS [CT] CTAAAATATGATCCTCATTTGAGTAATCTTGCATCCACTCAGCTGTCTCATAGGAAAAAA[CT]GTTTATATAAAAATTAA GTAAATTTAGTTTTAAAGAATTAAGTTCAATTTTGAAAAGATC
80599 I A CTTTGTGCCTCCCAAGGGCATACTGTTCAGTCT
80599 P A A CGCGCCGAGGAGCGTCTTCCTTGGTTY
80599 P G A ATGACGTGGCAGACGGCGTCTTCCTTGGTY
80599 T A A CTGGAACCAAGGAAGACGCTGACTGAACAGTATGCCCTTGGGAGGCACAAAGCT
80599 T G A CTGGAACCAAGGAAGACGCCGACTGAACAGTATGCCCTTGGGAGGCACAAAGCT
80599 IS [AG] ATGGTTGGAGATGAAACGTCTCTGACAGCTTTGTGCCTCCCAAGGGCATACTGTTCAGTC[AG]GCGTCTTCCTTGGTT CCAGGGTCCTGTGCTTGGATTGTGGGGAACAGACTCCCCGGGGGG
80655 I S GCCCTCTCCTGCCGCACCAAGCT
80655 P T S CGCGCCGAGGATCCTCTTGTAAATTGCAGTY
80655 P C S ATGACGTGGCAGACGTCCTCTTGTAAATTGCAGTY
80655 T T S TTCGACTGCAATTTACAAGAGGATGCTTGGTGCGGCAGGAGAGGGCGG
80655 T C S TTCGACTGCAATTTACAAGAGGACGCTTGGTGCGGCAGGAGAGGGCGG
80655 IS [TC] CAGCAGCTGTCATGGAGCCGACACTAATTTCCAAGAGTTCGACTGCAATTTACAAGAGGA[TC]GCTTGGTGCGGCAG GAGAGGGCGGGTTTGCAGGGAGAAGCCCCCGAGGCCTTGGCAAGGA
80738 I S GTACATTACATTTCATTCGGGGCTTTGCTATTTCACTT
80738 P C S ATGACGTGGCAGACGATGATTTGAGCTATAGCTTGY
80738 P T S CGCGCCGAGGAATGATTTGAGCTATAGCTTGY
80738 T C S ACTGCAAGCTATAGCTCAAATCATCAGTGAAATAGCAAAGCCCCGAATGAAATGTAATGTACCT
80738 T T S ACTGCAAGCTATAGCTCAAATCATTAGTGAAATAGCAAAGCCCCGAATGAAATGTAATGTACCT
80738 IS [CT] CCCCCACAGGAGCACTTTGGCTTACACTCTTTTGCAACTGCAAGCTATAGCTCAAATCAT[CT]AGTGAAATAGCAAAGC CCCGAATGAAATGTAATGTACCTTAGAAAACTTCCATAAGCACA
80777 I S CCAAGTCCCAAAGCATCTATACTACAGGGTACAATA
80777 P G S ATGACGTGGCAGACCGCAGTTTCTTTTGAACAATY
80777 P A S CGCGCCGAGGTGCAGTTTCTTTTGAACAATAGY
80777 T G S AACTCTATTGTTCAAAAGAAACTGCGATTGTACCCTGTAGTATAGATGCTTTGGGACTTGGAA
80777 T A S AACTCTATTGTTCAAAAGAAACTGCAATTGTACCCTGTAGTATAGATGCTTTGGGACTTGGAA
80777 IS [GA] TCAAGGAGGGTCTGAGCTGTGTTTTTCCGAAATAAAACTCTATTGTTCAAAAGAAACTGC[GA]ATTGTACCCTGTAGTA TAGATGCTTTGGGACTTGGAATATACAATGACTTCTTTCTTCAT
80786 I A CCTGTGGGATCCATGCCTCTGCTACTGGT
80786 P G A ATGACGTGGCAGACGGCCTCCTGGGCY
80786 P A A CGCGCCGAGGAGCCTCCTGGGCAY
80786 T G A GACCTGCCCAGGAGGCCCCAGTAGCAGAGGCATGGATCCCACAGGCA
80786 T A A GACCTGCCCAGGAGGCTCCAGTAGCAGAGGCATGGATCCCACAGGCA
80786 IS [GA] AGTAGCACCATAGTTCAGCTCCGGTGGCCCTGCCTGTGGGATCCATGCCTCTGCTACTGG[GA]GCCTCCTGGGCAG GTCCCATTACCTGGAGTGCAGGTGACTCTAGGTGCATGGTTGGTGGT
80876 I S CCATGGCGCAGGGGCAGCGA
80876 P G S ATGACGTGGCAGACCAAGTTTCAGGCGCAY
80876 P A S CGCGCCGAGGTAAGTTTCAGGCGCACY
80876 T G S GTTTGTGCGCCTGAAACTTGCGCTGCCCCTGCGCCATGGTC
80876 T A S GTTTGTGCGCCTGAAACTTACGCTGCCCCTGCGCCATGGTC
80876 IS [GA] ATTCTTTTCAGAGGCTGCCGCTGCCGTCTTACTCTTTGCGGGTTTGTGCGCCTGAAACTT[GA]CGCTGCCCCTGCGC CATGGTCCGGCACGCAGCGGAAGAGGCGGGACTGTGAGCAGTCGTA
80923 I S CTTGTTAGCCATAAAGAGATCCTGAGATGTAAAAGATACACATA
80923 P G S ATGACGTGGCAGACCGAGAGCACCTTGGGY
80923 P A S CGCGCCGAGGTGAGAGCACCTTGGGY
80923 T G S TCTTCCCAAGGTGCTCTCGATGTGTATCTTTTACATCTCAGGATCTCTTTATGGCTAACAAGGT
80923 T A S TCTTCCCAAGGTGCTCTCAATGTGTATCTTTTACATCTCAGGATCTCTTTATGGCTAACAAGGT
80923 IS [GA] AAAGAGAGTTAAAATGCATTGAGGCCACTTCCACTCACCACTTCTTCCCAAGGTGCTCTC[GA]ATGTGTATCTTTTACA TCTCAGGATCTCTTTATGGCTAACAAGGTATTTTGTGTGCACTT

FIGURE 129D

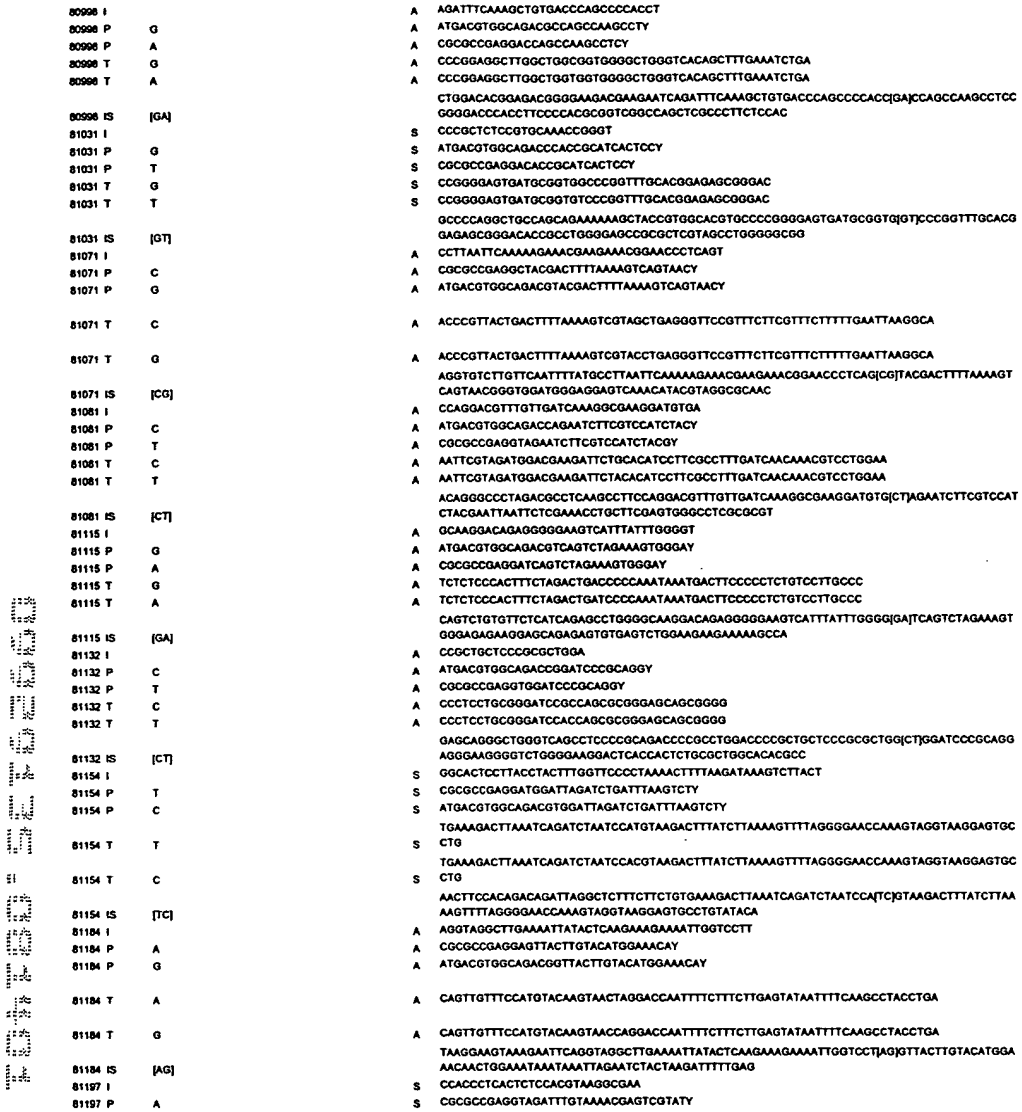

80998 I A AGATTTCAAAGCTGTGACCCAGCCCCACCT
80998 P G A ATGACGTGGCAGACGCCAGCCAAGCCTY
80998 P A A CGCGCCGAGGACCAGCCAAGCCTCY
80998 T G A CCCGGAGGCTTGGCTGGCGGTGGGGCTGGGTCACAGCTTTGAAATCTGA
80998 T A A CCCGGAGGCTTGGCTGGTGGTGGGGCTGGGTCACAGCTTTGAAATCTGA
80998 IS [GA] CTGGACACGGAGACGGGGAAGACGAAGAATCAGATTTCAAAGCTGTGACCCAGCCCCACC[GA]CCAGCCAAGCCTCC GGGGACCCACCTTCCCCACGCGGTCGGCCAGCTCGCCCTTCTCCAC
81031 I S CCCGCTCTCCGTGCAAACCGGGT
81031 P G S ATGACGTGGCAGACCCACCGCATCACTCCY
81031 P T S CGCGCCGAGGACACCGCATCACTCCY
81031 T G S CCGGGGAGTGATGCGGTGGCCCGGTTTGCACGGAGAGCGGGAC
81031 T T S CCGGGGAGTGATGCGGTGTCCCGGTTTGCACGGAGAGCGGGAC
81031 IS [GT] GCCCCAGGCTGCCAGCAGAAAAAAGCTACCGTGGCACGTGCCCCGGGGAGTGATGCGGTG[GT]CCCGGTTTGCACG GAGAGCGGGACACCGCCTGGGGAGCCGCGCTCGTAGCCTGGGGGCGG
81071 I A CCTTAATTCAAAAAGAAACGAAGAAACGGAACCCTCAGT
81071 P C A CGCGCCGAGGCTACGACTTTTAAAAGTCAGTAACY
81071 P G A ATGACGTGGCAGACGTACGACTTTTAAAAGTCAGTAACY
81071 T C A ACCCGTTACTGACTTTTAAAAGTCGTAGCTGAGGGTTCCGTTTCTTCGTTTCTTTTTGAATTAAGGCA
81071 T G A ACCCGTTACTGACTTTTAAAAGTCGTACCTGAGGGTTCCGTTTCTTCGTTTCTTTTTGAATTAAGGCA
81071 IS [CG] AGGTGTCTTGTTCAATTTTATGCCTTAATTCAAAAAGAAACGAAGAAACGGAACCCTCAG[CG]TACGACTTTTAAAAGT CAGTAACGGGTGGATGGGAGGAGTCAAACATACGTAGGCGCAAC
81081 I A CCAGGACGTTTGTTGATCAAAGGCGAAGGATGTGA
81081 P C A ATGACGTGGCAGACCAGAATCTTCGTCCATCTACY
81081 P T A CGCGCCGAGGTAGAATCTTCGTCCATCTACGY
81081 T C A AATTCGTAGATGGACGAAGATTCTGCACATCCTTCGCCTTTGATCAACAAACGTCCTGGAA
81081 T T A AATTCGTAGATGGACGAAGATTCTACACATCCTTCGCCTTTGATCAACAAACGTCCTGGAA
81081 IS [CT] ACAGGGCCCTAGACGCCTCAAGCCTTCCAGGACGTTTGTTGATCAAAGGCGAAGGATGTG[CT]AGAATCTTCGTCCAT CTACGAATTAATTCTCGAAACCTGCTTCGAGTGGGCCTCGCGCGT
81115 I A GCAAGGACAGAGGGGGAAGTCATTTATTTGGGGT
81115 P G A ATGACGTGGCAGACGTCAGTCTAGAAAGTGGGAY
81115 P A A CGCGCCGAGGATCAGTCTAGAAAGTGGGAY
81115 T G A TCTCTCCCACTTTCTAGACTGACCCCCAAATAAATGACTTCCCCCTCTGTCCTTGCCC
81115 T A A TCTCTCCCACTTTCTAGACTGATCCCCAAATAAATGACTTCCCCCTCTGTCCTTGCCC
81115 IS [GA] CAGTCTGTGTTCTCATCAGAGCCTGGGGCAAGGACAGAGGGGGAAGTCATTTATTTGGGG[GA]TCAGTCTAGAAAGT GGGAGAGAAGGAGCAGAGAGTGTGAGTCTGGAAGAAGAAAAAGCCA
81132 I A CCGCTGCTCCCGCGCTGGA
81132 P C A ATGACGTGGCAGACCGGATCCCGCAGGY
81132 P T A CGCGCCGAGGTGGATCCCGCAGGY
81132 T C A CCCTCCTGCGGGATCCGCCAGCGCGGGAGCAGCGGGG
81132 T T A CCCTCCTGCGGGATCCACCAGCGCGGGAGCAGCGGGG
81132 IS [CT] GAGCAGGGCTGGGTCAGCCTCCCCGCAGACCCCGCCTGGACCCCGCTGCTCCCGCGCTGG[CT]GGATCCCGCAGG AGGGAAGGGGTCTGGGGAAGGACTCACCACTCTGCGCTGGCACACGCC
81154 I S GGCACTCCTTACCTACTTTGGTTCCCCTAAAACTTTTAAGATAAAGTCTTACT
81154 P T S CGCGCCGAGGATGGATTAGATCTGATTTAAGTCTY
81154 P C S ATGACGTGGCAGACGTGGATTAGATCTGATTTAAGTCTY
81154 T T S TGAAAGACTTAAATCAGATCTAATCCATGTAAGACTTTATCTTAAAAGTTTTAGGGGAACCAAAGTAGGTAAGGAGTGC CTG
81154 T C S TGAAAGACTTAAATCAGATCTAATCCACGTAAGACTTTATCTTAAAAGTTTTAGGGGAACCAAAGTAGGTAAGGAGTGC CTG
81154 IS [TC] AACTTCCACAGACAGATTAGGCTCTTTCTTCTGTGAAAGACTTAAATCAGATCTAATCCA[TC]GTAAGACTTTATCTTAA AAGTTTTAGGGGAACCAAAGTAGGTAAGGAGTGCCTGTATACA
81184 I A AGGTAGGCTTGAAAATTATACTCAAGAAAGAAAATTGGTCCTT
81184 P A A CGCGCCGAGGAGTTACTTGTACATGGAAACAY
81184 P G A ATGACGTGGCAGACGGTTACTTGTACATGGAAACAY
81184 T A A CAGTTGTTTCCATGTACAAGTAACTAGGACCAATTTTCTTTCTTGAGTATAATTTTCAAGCCTACCTGA
81184 T G A CAGTTGTTTCCATGTACAAGTAACCAGGACCAATTTTCTTTCTTGAGTATAATTTTCAAGCCTACCTGA
81184 IS [AG] TAAGGAAGTAAAGAATTCAGGTAGGCTTGAAAATTATACTCAAGAAAGAAAATTGGTCCT[AG]GTTACTTGTACATGGA AACAACTGGAAATAAATAAATTAGAATCTACTAAGATTTTTGAG
81197 I S CCACCCTCACTCTCCACGTAAGGCGAA
81197 P A S CGCGCCGAGGTAGATTTGTAAAACGAGTCGTATY
81197 P G S ATGACGTGGCAGACCAGATTTGTAAAACGAGTCGY
81197 T A S GTTAATACGACTCGTTTTACAAATCTATCGCCTTACGTGGAGAGTGAGGGTGGGT
81197 T G S GTTAATACGACTCGTTTTACAAATCTGTCGCCTTACGTGGAGAGTGAGGGTGGGT
81197 IS [AG] TAATAAAAAAATCACTTTAGCACAATGTTACAGAGTTAATACGACTCGTTTTACAAATCT[AG]TCGCCTTACGTGGAGAG TGAGGGTGGGTGGGAAGGCAAGGCCTTTTGACATTAAAAACCA
81257 I A ACATGTGTTCCAAATCTCATCAAGATGTGCTCTGATCATCTGTCTAATTAT
81257 P C A ATGACGTGGCAGACCTACCAGATGTGCTGTTAAAY
81257 P A A CGCGCCGAGGATACCAGATGTGCTGTTAAAAY
81257 T C A GGTTTTTTAACAGCACATCTGGTAGTAATTAGACAGATGATCAGAGCACATCTTGATGAGATTTGGAACACATGTTG
81257 T A A GGTTTTTTAACAGCACATCTGGTATTAATTAGACAGATGATCAGAGCACATCTTGATGAGATTTGGAACACATGTTG
81257 IS [CA] TCCTCCATCAACATGTGTTCCAAATCTCATCAAGATGTGCTCTGATCATCTGTCTAATTA[CA]TACCAGATGTGCTGTTA AAAAACCTACAATCTAGATCGTGTGAAAGAAAACATAGCTGTG
81266 I S GGAGAACCTGAATTTTAGGGACAGGCCTGCCA
81266 P G S ATGACGTGGCAGACCAAAATATGGGATTTCTGGAGY
81266 P A S CGCGCCGAGGTAAAATATGGGATTTCTGGAGAAY
81266 T G S ATTATTCTCCAGAAATCCCATATTTTGGGCAGGCCTGTCCCTAAAATTCAGGTTCTCCAC
81266 T A S ATTATTCTCCAGAAATCCCATATTTTAGGCAGGCCTGTCCCTAAAATTCAGGTTCTCCAC
81266 IS [GA] ATATAAACAAGGCTTAGTTATTTACATTTAGGAAATTATTCTCCAGAAATCCCATATTTT[GA]GGCAGGCCTGTCCCTAA AATTCAGGTTCTCCACACCAAAAAATCATTCAGTGTGTGCTCA
81283 I S GGAGGGGGTACCGGGGGCCA
81283 P G S ATGACGTGGCAGACCGGAGTGCTGGCGY
81283 P A S CGCGCCGAGGTGGAGTGCTGGCGY
81283 T G S CACTCGCCAGCACTCCGGGCCCCCGGTACCCCCTCCCC
81283 T A S CACTCGCCAGCACTCCAGGCCCCCGGTACCCCCTCCCC
81283 IS [GA] TCCCCGGGCCTAGTTTCCCCTGGGCTCCAGTCCCTGGGGTCTGCCACTCGCCAGCACTCC[GA]GGCCCCCGGTACC CCCTCCCCTACCCTGCCAGAGGGTAGAGGGAGACCTGGCCAAGGAGG
81288 I S GGTGAGTGGGCATGTGCATATTTGCTTTAAAACATTTTCCAT
81288 P T S CGCGCCGAGGATAACTGCTGACAACAGCY
81288 P C S ATGACGTGGCAGACGTAACTGCTGACAACAGCY
81288 T T S GGTTGCTGTTGTCAGCAGTTATTGGAAAATGTTTTAAAGCAAATATGCACATGCCCACTCACCCA
81288 T C S GGTTGCTGTTGTCAGCAGTTACTGGAAAATGTTTTAAAGCAAATATGCACATGCCCACTCACCCA
81288 IS [TC] ATCTCAGGATGGGGAGAAACTGGGTGCCTGGAGGCTTCAGGTTGCTGTTGTCAGCAGTTA[TC]TGGAAAATGTTTTAA AGCAAATATGCACATGCCCACTCACCCATGCACACACATCTGCTT

FIGURE 129D

81319 I		S	CAGAATCATTCTCCAGCTGGGCCCCTCAGA
81319 P	A	S	CGCGCCGAGGTGCTGGTGATCTTGCY
81319 P	G	S	ATGACGTGGCAGACCGCTGGTGATCTTGCY
81319 T	A	S	CTCGGCAAGATCACCAGCACTGAGGGGCCCAGCTGGAGAATGATTCTGCT
81319 T	G	S	CTCGGCAAGATCACCAGCGCTGAGGGGCCCAGCTGGAGAATGATTCTGCT
81319 IS	[AG]		ATGCCAAGACACCCGGGTTCTGAAAATGTGCTGTGTTCCTACCTCGGCAAGATCACCAGC[AG]CTGAGGGGCCCAGC TGGAGAATGATTCTGCTACAAAAGGAGACAGTTGAGACTTTTGCTT
81326 I		S	AGCTTAGCTTTCAGACAGAGGCTTTTTGGTTGC
81326 P	A	S	CGCGCCGAGGTTGTTTGATTTTCATTACAGTACTTY
81326 P	C	S	ATGACGTGGCAGACGTGTTTGATTTTCATTACAGTACTY
81326 T	A	S	CATCAAGTACTGTAATGAAAATCAAACAACAACCAAAAAGCCTCTGTCTGAAAGCTAAGCTGA
81326 T	C	S	CATCAAGTACTGTAATGAAAATCAAACACCAACCAAAAAGCCTCTGTCTGAAAGCTAAGCTGA
81326 IS	[AC]		AGTGAAATAGCTTGGTCCACACTTAATGCGTTCATCAAGTACTGTAATGAAAATCAAACA[AC]CAACCAAAAAGCCTCT GTCTGAAAGCTAAGCTGAAATAAGACGTGATTGCTTTTGATATC
81353 I		A	TGGTTTCTGACCCCATAATTGGTTTAGAATAACTTCAGTGCCTT
81353 P	G	A	ATGACGTGGCAGACGAACAGAACCTCCACAGY
81353 P	A	A	CGCGCCGAGGAAACAGAACCTCCACAGY
81353 T	G	A	TGTGCTGTGGAGGTTCTGTTCAGGCACTGAAGTTATTCTAAACCAATTATGGGGTCAGAAACCAAT
81353 T	A	A	TGTGCTGTGGAGGTTCTGTTTAGGCACTGAAGTTATTCTAAACCAATTATGGGGTCAGAAACCAAT
81353 IS	[GA]		AGGAATTGACCACAGATTGGTTTCTGACCCCATAATTGGTTTAGAATAACTTCAGTGCCT[GA]AACAGAACCTCCACAG CACAATCAATAAATCAAAAGCCAAATCAGGTCAGAGAAGGGTCT
81432 I		S	ACTTTACTTTTCTCTGAGGAAGTGGTTTAGGGGCA
81432 P	A	S	CGCGCCGAGGTGCTACTGGCCCCY
81432 P	G	S	ATGACGTGGCAGACCGCTACTGGCCCCY
81432 T	A	S	GAGGGGGGCCAGTAGCAGCCCCTAAACCACTTCCTCAGAGAAAAGTAAAGTAA
81432 T	G	S	GAGGGGGGCCAGTAGCGGCCCCTAAACCACTTCCTCAGAGAAAAGTAAAGTAA
81432 IS	[AG]		TCCCCTGGGGGTCCTGCAGAGTACCTGTGCTGACCTGAGCCCACGAGGGGGGCCAGTAGC[AG]GCCCCTAAACCAC TTCCTCAGAGAAAAGTAAAGTAATATTCTTACCAAGAGAAGGCTTGC
81459 I		A	TGTCCGGGTTCCCTGCACACCTGTA
81459 P	C	A	ATGACGTGGCAGACCGCCAGGTTAAACAACCY
81459 P	T	A	CGCGCCGAGGTGCCAGGTTAAACAACCY
81459 T	C	A	CGATGGTTGTTTAACCTGGCGACAGGTGTGCAGGGAACCCGGACATC
81459 T	T	A	CGATGGTTGTTTAACCTGGCAACAGGTGTGCAGGGAACCCGGACATC
81459 IS	[CT]		CTTTTACTTGTTATTTCCGCAGGTGGTGATTCTAGATGTCCGGGTTCCCTGCACACCTGT[CT]GCCAGGTTAAACAAC CATCGAGCATGTGTCAATGGCATTGCTTGGGCCCCACATTCATCC
81479 I		A	AGGAATCCTTATAGCCCCACGTTCCCTTA
81479 P	T	A	CGCGCCGAGGTTAAAGTCTAGTTGCTAGCTAAAY
81479 P	C	A	ATGACGTGGCAGACCTAAAGTCTAGTTGCTAGCTAAAY
81479 T	T	A	CGATTTTAGCTAGCAACTAGACTTTAAAAGGGAACGTGGGGCTATAAGGATTCCTTC
81479 T	C	A	CGATTTTAGCTAGCAACTAGACTTTAGAAGGGAACGTGGGGCTATAAGGATTCCTTC
81479 IS	[TC]		AATAGTAAAGACTTTCAGAACCTTTTTAAAGAAGGAATCCTTATAGCCCCACGTTCCCTT[TC]TAAAGTCTAGTTGCTAG CTAAAATCGAATGCAATTTTTTCTTTCAATAAGCTTCAATATAA
81487 I		S	CCAATTCCCCAGCACTCATTTAGCACCCTACAGATTAT
81487 P	T	S	CGCGCCGAGGACCAAAGTGGTAACAGCY
81487 P	G	S	ATGACGTGGCAGACCCCAAAGTGGTAACAGCY
81487 T	T	S	CTCAGCTGTTACCACTTTGGTTAATCTGTAGGGTGCTAAATGAGTGCTGGGGAATTGGAG
81487 T	G	S	CTCAGCTGTTACCACTTTGGGTAATCTGTAGGGTGCTAAATGAGTGCTGGGGAATTGGAG
81487 IS	[TG]		CTTACATTCCTAATTCAGTGTTTATTGGTTAAAATTGTTCCTCAGCTGTTACCACTTTGG[TG]TAATCTGTAGGGTGCTA AATGAGTGCTGGGGAATTGGAGCCTTTTGCTGAGTCCTCCAGA
81502 I		S	GGCTGGAGGATTCAGCCCTCATCACCACT
81502 P	G	S	CGCGCCGAGGCTAGCTCTCTTCTCCCGY
81502 P	C	S	ATGACGTGGCAGACGTAGCTCTCTTCTCCCGY
81502 T	G	S	CCCCCGGGAGAAGAGAGCTAGGTGGTGATGAGGGCTGAATCCTCCAGCCAG
81502 T	C	S	CCCCCGGGAGAAGAGAGCTACGTGGTGATGAGGGCTGAATCCTCCAGCCAG
81502 IS	[GC]		CCCTCCAGGCAGGTCTATGAGGGGTGTGGAGGGAGGGCTGCCCCCGGGAGAAGAGAGCTA[GC]GTGGTGATGAGG GCTGAATCCTCCAGCCAGGGTGCTCAACAAGCCTGAGCTTGGGGTAAA
81515 I		A	GCGCCAGGCCACCCTGGGA
81515 P	C	A	ATGACGTGGCAGACCTCCAGGCACCCAGY
81515 P	T	A	CGCGCCGAGGTTCCAGGCACCCAGY
81515 T	C	A	GAGCCTGGGTGCCTGGAGCCCAGGGTGGCCTGGCGCCC
81515 T	T	A	GAGCCTGGGTGCCTGGAACCCAGGGTGGCCTGGCGCCC
81515 IS	[CT]		CCGAGAACAGGGGGCTGGGGAGAGAGGAAGAGGTGGGCCAGGGCGCCAGGCCACCCTGGG[CT]TCCAGGCACCCA GGCTCACTTCCTAGGAGGCAGCATGGGGAAGGGGATGGGCCGTACCTG
81523 I		A	CCACTCCCTGGTGTTTCCTAAGATTTTGTTTTGTCAGCATTT
81523 P	A	A	CGCGCCGAGGAAGAAGGCAGCTTTCAAGY
81523 P	C	A	ATGACGTGGCAGACCAGAAGGCAGCTTTCAAY
81523 T	A	A	ACATCTTGAAAGCTGCCTTCTTAATGCTGACAAAACAAAATCTTAGGAAACACCAGGGAGTGGTT
81523 T	C	A	ACATCTTGAAAGCTGCCTTCTGAATGCTGACAAAACAAAATCTTAGGAAACACCAGGGAGTGGTT
81523 IS	[AC]		ATTGCTTTGTGTTTTATAACCACTCCCTGGTGTTTCCTAAGATTTTGTTTTGTCAGCATT[AC]AGAAGGCAGCTTTCAAG ATGTTGTCATTTGATAATTCAGCTGCCTTCATGCTCTCAGCAT
81534 I		S	CCCCCGACCTCCTCTTGGCCGAAT
81534 P	C	S	ATGACGTGGCAGACGTTGACCTCCCCAAACY
81534 P	T	S	CGCGCCGAGGATTGACCTCCCCAAACTY
81534 T	C	S	CACCAGTTTGGGGAGGTCAACTTCGGCCAAGAGGAGGTCGGGGGCT
81534 T	T	S	CACCAGTTTGGGGAGGTCAATTTCGGCCAAGAGGAGGTCGGGGGCT
81534 IS	[CT]		CCAGACCTCATTCCCCTGCTCTGGTCCAGCGCGCAAAACTCACCAGTTTGGGGAGGTCAA[CT]TTCGGCCAAGAGGA GGTCGGGGGCTTCCAGCCACAGGTTCAGGTGAGGCTTTTCAGGCCT
81555 I		A	GGGGCTCAGGCTGGACAGTAATGCCTGT
81555 P	G	A	ATGACGTGGCAGACGGCTACAGACGCAGTY
81555 P	A	A	CGCGCCGAGGAGCTACAGACGCAGTGY
81555 T	G	A	TATCCACTGCGTCTGTAGCCCAGGCATTACTGTCCAGCCTGAGCCCCTG
81555 T	A	A	TATCCACTGCGTCTGTAGCTCAGGCATTACTGTCCAGCCTGAGCCCCTG
81555 IS	[GA]		GATGCCCGGAGGCCAGGATGTCAGGAGCGGTCAGGGGCTCAGGCTGGACAGTAATGCCTG[GA]GCTACAGACGCAG TGGATACACCTGCTGTTTAAATGACTACAGGTGTGGACTCCCTACCC
81569 I		S	CCTGGAATCATCTCCAGAGAAGGAGGCTGCAA
81569 P	G	S	ATGACGTGGCAGACCGTGGTTTGTGAGATATTTTCY
81569 P	A	S	CGCGCCGAGGTGTGGTTTGTGAGATATTTTCTY
81569 T	G	S	TTTAAGAAAATATCTCACAAACCACGTGCAGCCTCCTTCTCTGGAGATGATTCCAGGTC
81569 T	A	S	TTTAAGAAAATATCTCACAAACCACATGCAGCCTCCTTCTCTGGAGATGATTCCAGGTC
81569 IS	[GA]		GAGAAACCTGTGAAGGTTTTGTGAGGGAAGGATTTTTTTAAGAAAATATCTCACAAACCAC[GA]TGCAGCCTCCTTCTCT GGAGATGATTCCAGGTCCTTGGGTGTGGAATTATCACTTTGCAT
81580 I		A	CTGGTGCTGCTTGCGAAGGCGCA
81580 P	T	A	CGCGCCGAGGTGCCTGGCTGGAGY
81580 P	C	A	ATGACGTGGCAGACCGCCTGGCTGGAGY
81580 T	T	A	CTTCCTCCAGCCAGGCAGCGCCTTCGCAAGCAGCACCAGGG
81580 T	C	A	CTTCCTCCAGCCAGGCGGCGCCTTCGCAAGCAGCACCAGGG
81580 IS	[TC]		CGGGAGCAAAAGGTAAGCAACTCTGGTTTTCGGCTTCCCTGGTGCTGCTTGCGAAGGCGC[TC]GCCTGGCTGGAGG AAGCCCTCAGCCCTGATGGATTGACTTCTCTCTTACACAGTACCACC
81581 I		S	CTGAGGAAGTCCACCGGCTGCTGAGAAGT

FIGURE 129D

81581 P	C	S	ATGACGTGGCAGACGTGCCCCTACCACTTY	
81581 P	T	S	CGCGCCGAGGATGCCCCTACCACTTTY	
81581 T	C	S	ACACAAAGTGGTAGGGGCACCTTCTCAGCAGCCGGTGGACTTCCTCAGTC	
81581 T	T	S	ACACAAAGTGGTAGGGGCATCTTCTCAGCAGCCGGTGGACTTCCTCAGTC	
81581 IS	[CT]		CAACATCTCGCCTTTGCCCTTGACACTGACTTTGCCTCGGCACACAAAGTGGTAGGGGCA[CT]CTTCTCAGCAGCCG GTGGACTTCCTCAGTCACCTGTTGATGGAGAGAAGTGAGTGTTACT	
81583 I		A	GACAACTATGCTTGTAATCAAGGGCTGCCTGTGTC	
81583 P	T	A	CGCGCCGAGGTTAAGACTTAAAAGTAGGGACTGY	
81583 P	A	A	ATGACGTGGCAGACATAAGACTTAAAAGTAGGGACTGY	
81583 T	T	A	CCCCCAGTCCCTACTTTTAAGTCTTAAACACAGGCAGCCCTTGATTACAAGCATAGTTGTCCC	
81583 T	A	A	CCCCCAGTCCCTACTTTTAAGTCTTATACACAGGCAGCCCTTGATTACAAGCATAGTTGTCCC	
81583 IS	[TA]		CTATGGGTCTCCTCAGGATGCTGAGGGACAACTATGCTTGTAATCAAGGGCTGCCTGTGT[TA]TAAGACTTAAAAGTA GGGACTGGGGGGCTTCTCTGGACCACTCAGTAAAGATCCCCAAAG	
81603 I		S	CTGTCATGTGGTAAGGCTCCCCCTGAGGT	
81603 P	C	S	ATGACGTGGCAGACGCAGCAGCTTCCCAY	
81603 P	T	S	CGCGCCGAGGACAGCAGCTTCCCATY	
81603 T	C	S	CCAGATGGGAAGCTGCTGCCCTCAGGGGGAGCCTTACCACATGACAGGT	
81603 T	T	S	CCAGATGGGAAGCTGCTGTCCTCAGGGGGAGCCTTACCACATGACAGGT	
81603 IS	[CT]		TGAGTGGGGGAGGGGTGGGGCTGAACAGAGAGGCTGGGGGGGCCAGATGGGAAGCTGCTG[CT]CCTCAGGGGGA GCCTTACCACATGACAGGTCAGATTTGCAGTGTAGACAGACTCCTCTGC	
81693 I		S	TCTCCATGCCCGCTTCAGTTATGCCACAA	
81693 P	G	S	ATGACGTGGCAGACCCCAAGGGAAGAGCAY	
81693 P	A	S	CGCGCCGAGGTCCAAGGGAAGAGCAAY	
81693 T	G	S	TGTTTTGCTCTTCCCTTGGGTGTGGCATAACTGAAGCGGGCATGGAGACG	
81693 T	A	S	TGTTTTGCTCTTCCCTTGGATGTGGCATAACTGAAGCGGGCATGGAGACG	
81693 IS	[GA]		TGGTGACAGCCTCTCCCTCACTGTCCTCCCAGATCTTAGTGTGTTTTGCTCTTCCCTTGG[GA]TGTGGCATAACTGAA GCGGGCATGGAGACGGCGGGGGCATTGACCTATGACTCACAGATAT	
81727 I		S	GGTTCCTTTGAATTTCCTCCCAGAAAGCTCAGATTTCTTTCTTTTTTTTA	
81727 P	A	S	CGCGCCGAGGTCCCCCCTTCTTCTTCY	
81727 P	G	S	ATGACGTGGCAGACCCCCCCCTTCTTCTTCY	
81727 T	A	S	TACTGAAGAAGAAGGGGGGAAAAAAAAAGAAAGAAATCTGAGCTTTCTGGGAGGAAATTCAAAGGAACCAA	
81727 T	G	S	TACTGAAGAAGAAGGGGGGGAAAAAAAAGAAAGAAATCTGAGCTTTCTGGGAGGAAATTCAAAGGAACCAA	
81727 IS	[AG]		GCCTGTGGGTCTTCTCTTCTAGTATCAGTGAGGGGAGGGATTACTGAAGAAGAAGGGGGG[AG]AAAAAAAAGAAAGA AATCTGAGCTTTCTGGGAGGAAATTCAAAGGAACCAAGAGAAATTA	
81753 I		A	AAAACAACCCCAACACACCAGAAAACCATCTTATGCTTTTTTGC	
81753 P	G	A	ATGACGTGGCAGACGCACAATCCCATGATGCY	
81753 P	T	A	CGCGCCGAGGTCACAATCCCATGATGCY	
81753 T	G	A	ATCAGCATCATGGGATTGTGCCAAAAAAGCATAAGATGGTTTTCTGGTGTGTTGGGGTTGTTTTGC	
81753 T	T	A	ATCAGCATCATGGGATTGTGACAAAAAAGCATAAGATGGTTTTCTGGTGTGTTGGGGTTGTTTTGC	
81753 IS	[GT]		GAGCAGATAGTTTAGGCAAAACAACCCCAACACACCAGAAAACCATCTTATGCTTTTTTG[GT]CACAATCCCATGATGC TGATAGTGTTCCCTACTCAGAGTAGACTGAATTATGAGGGGTAG	
81776 I		A	GGCGCAGGGCTAGAGCGGCGT	
81776 P	A	A	CGCGCCGAGGAGGGCAGACGTGGY	
81776 P	C	A	ATGACGTGGCAGACCGGGCAGACGTGGY	
81776 T	A	A	CCTACCACGTCTGCCCTCGCCGCTCTAGCCCTGCGCCCC	
81776 T	C	A	CCTACCACGTCTGCCCGCGCCGCTCTAGCCCTGCGCCCC	
81776 IS	[AC]		ACCTAGCGGCGGCGAGGCGGAGGTGCCGCGGCCGGGCTGGGGCGCAGGGCTAGAGCGGCG[AC]GGCAGACGTG GTAGGTGGAGGGAGGCGGCGCCAGCCCCGCAGCCGCAGCTGTCGTTTCC	
81849 I		A	ACGTTTGTTGGGGGAAGGGAGAACGA	
81849 P	T	A	CGCGCCGAGGTTGGAAAACTAAAGCAAATGATTY	
81849 P	C	A	ATGACGTGGCAGACCTGGAAAACTAAAGCAAATGATY	
81849 T	T	A	AAAAAATCATTTGCTTTAGTTTTCCAACGTTCTCCCTTCCCCCAACAAACGTTA	
81849 T	C	A	AAAAAATCATTTGCTTTAGTTTTCCAGCGTTCTCCCTTCCCCCAACAAACGTTA	
81849 IS	[TC]		AACAACTAGAAATACATGGAATTTTTCTTTAAATAACGTTTGTTGGGGGAAGGGAGAACG[TC]TGGAAAACTAAAGCAA ATGATTTTTTCAATAGTGATCTTTGGTAAGGGTGTAAGGTGAAT	
81912 I		A	TGAACCCTGACATAATAGGTCCCTCGCCGGT	
81912 P	C	A	CGCGCCGAGGCTCCCGTAATCCCAGCY	
81912 P	G	A	ATGACGTGGCAGACGTCCCGTAATCCCAGCY	
81912 T	C	A	TCTAGCTGGGATTACGGGAGCCGGCGAGGGACCTATTATGTCAGGGTTCAGA	
81912 T	G	A	TCTAGCTGGGATTACGGGACCCGGCGAGGGACCTATTATGTCAGGGTTCAGA	
81912 IS	[CG]		GGAAAGGCTTGCATGCAGAGCTGGGTTGTCTGAACCCTGACATAATAGGTCCCTCGCCGG[CG]TCCCGTAATCCCAG CTAGAGGACTTTGGTCCCGTTTCCGGCAAGGCCACCACCTGACTTC	
81923 I		A	GATCCTGCTCTGTATCGTGGAGAAAGACCCAAGGC	
81923 P	T	A	CGCGCCGAGGTAAGTTCCCATTTCCAGTTAAY	
81923 P	A	A	ATGACGTGGCAGACAAGTTCCCATTTCCAGTTAAY	
81923 T	T	A	GAGCTTAACTGGAAATGGGAACTTACCTTGGGTCTTTCTCCACGATACAGAGCAGGATCAC	
81923 T	A	A	GAGCTTAACTGGAAATGGGAACTTTCCTTGGGTCTTTCTCCACGATACAGAGCAGGATCAC	
81923 IS	[TA]		GCTTCTTAAAGGAATGAGCACATTGTGATCCTGCTCTGTATCGTGGAGAAAGACCCAAGG[TA]AAGTTCCCATTTCCA GTTAAGCTCAGCCTAACCTCTCTTAATAGCTATTCCTAGTTCTGC	
81936 I		S	CTCCAACTCCAGAAGGGACATTCAGGGTCTCAAT	
81936 P	C	S	ATGACGTGGCAGACGCAAAGCACTGGATATCTY	
81936 P	T	S	CGCGCCGAGGACAAAGCACTGGATATCTCY	
81936 T	C	S	CCGAGAGATATCCAGTGCTTTGCTTGAGACCCTGAATGTCCCTTCTGGAGTTGGAGAG	
81936 T	T	S	CCGAGAGATATCCAGTGCTTTGTTTGAGACCCTGAATGTCCCTTCTGGAGTTGGAGAG	
81936 IS	[CT]		AAGCAGGTGCCCACGGAGTTTGCAAAGGAGAAACTGAGCCGAGAGATATCCAGTGCTTTG[CT]TTGAGACCCTGAAT GTCCCTTCTGGAGTTGGAGAGTGGGTGAAAAGAGCCAGGTCTGGGA	
81940 I		A	CCAGCAGTGCGCCTGCGCGA	
81940 P	T	A	CGCGCCGAGGTCTTTCCCGCGCGY	
81940 P	C	A	ATGACGTGGCAGACCCTTTCCCGCGCY	
81940 T	T	A	GGAGCGCGCGGGAAAGACGCGCAGGCGCACTGCTGGCA	
81940 T	C	A	GGAGCGCGCGGGAAAGGCGCGCAGGCGCACTGCTGGCA	
81940 IS	[TC]		GGGTTTAGCTCCGCCCACCCCAGCACAGGCAAGCACCCTTGCCAGCAGTGCGCCTGCGCG[TC]CTTTCCCGCGCGC TCCAGGCTGGAGTTAATTCTGTCCTTGGCCGGCCGCCGTTCACAAAG	
81962 I		S	TTCCTCTCAGAGAGCAATTTATTTAAATATCAGTAAACCTATTTTTAAACTTAGATGAA	
81962 P	A	S	CGCGCCGAGGTTCAGCCCAACTGAGAY	
81962 P	G	S	ATGACGTGGCAGACCTCAGCCCAACTGAGAY	
81962 T	A	S	CTCCTCTCAGTTGGGCTGAATCATCTAAGTTTAAAAATAGGTTTACTGATATTTAAATAAATTGCTCTCTGAGAGGAACA	
81962 T	G	S A	CTCCTCTCAGTTGGGCTGAGTCATCTAAGTTTAAAAATAGGTTTACTGATATTTAAATAAATTGCTCTCTGAGAGGAAC	
81962 IS	[AG]		AATCTCTAAAACAGCATGTTAGAGAATTCTGAGACAAAGCACTCCTCTCAGTTGGGCTGA[AG]TCATCTAAGTTTAAAA ATAGGTTTACTGATATTTAAATAAATTGCTCTCTGAGAGGAACA	
82018 I		S	TGGATATATCACTTGACAGATTTCCGAAGAAGTCTGTTTCTTAT	
82018 P	C	S	ATGACGTGGCAGACGAAGAAATAGAATCAAATAGAAGAGCY	
82018 P	G	S	CGCGCCGAGGCAAGAAATAGAATCAAATAGAAGAGCY	
82018 T	C	S	TTCAGCTCTTCTATTTGATTCTATTTCTTCTAAGAAACAGACTTCTTCGGAAATCTGTCAAGTGATATATCCAAC	

FIGURE 129D

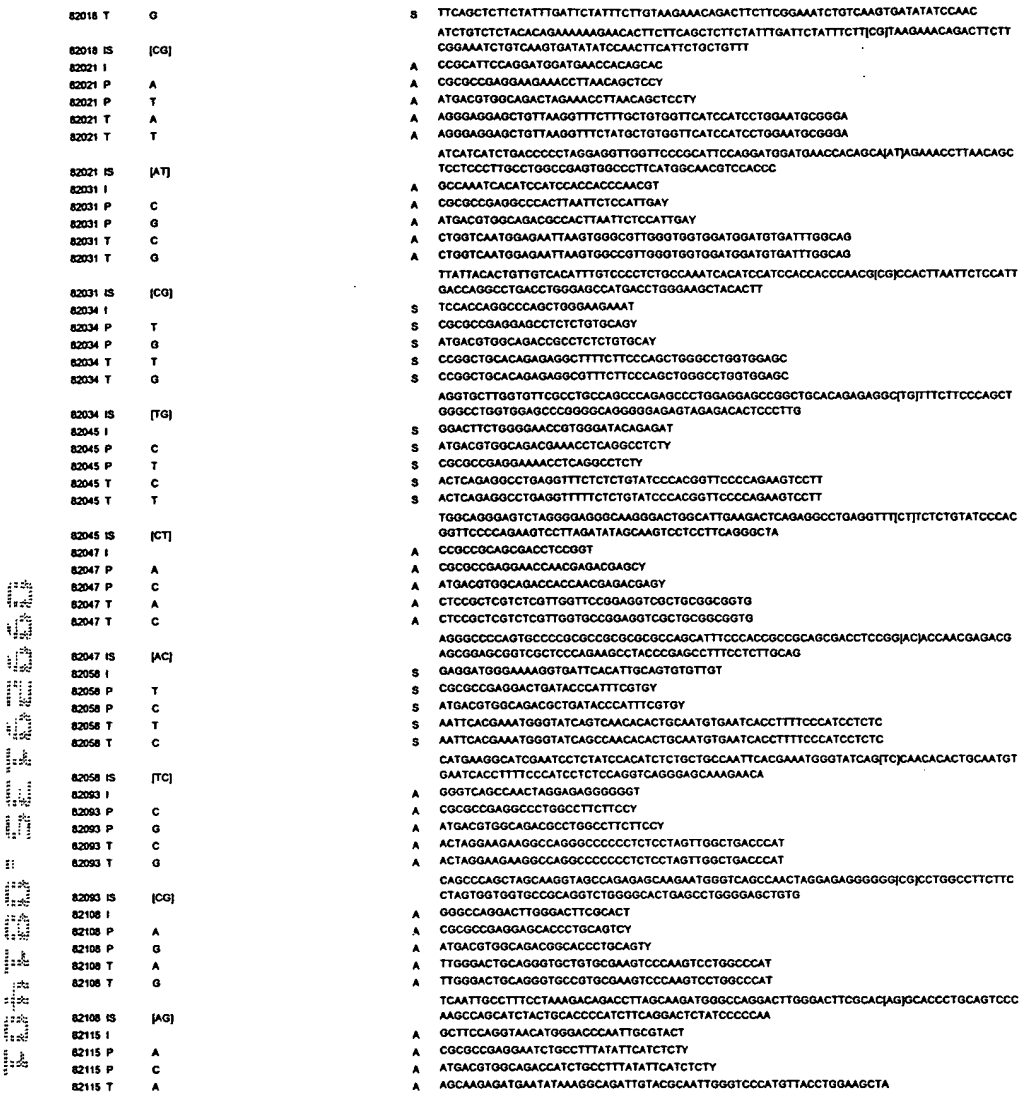

82018 T G S TTCAGCTCTTCTATTTGATTCTATTTCTTGTAAGAAACAGACTTCTTCGGAAATCTGTCAAGTGATATATCCAAC
ATCTGTCTCTACACAGAAAAAAGAACACTTCTTCAGCTCTTCTATTTGATTCTATTTCTT[CG]TAAGAAACAGACTTCTT
82018 IS [CG] CGGAAATCTGTCAAGTGATATATCCAACTTCATTCTGCTGTTT
82021 I A CCGCATTCCAGGATGGATGAACCACAGCAC
82021 P A A CGCGCCGAGGAAGAAACCTTAACAGCTCCY
82021 P T A ATGACGTGGCAGACTAGAAACCTTAACAGCTCCTY
82021 T A A AGGGAGGAGCTGTTAAGGTTTCTTTGCTGTGGTTCATCCATCCTGGAATGCGGGA
82021 T T A AGGGAGGAGCTGTTAAGGTTTCTATGCTGTGGTTCATCCATCCTGGAATGCGGGA
ATCATCATCTGACCCCCTAGGAGGTTGGTTCCCGCATTCCAGGATGGATGAACCACAGCA[AT]AGAAACCTTAACAGC
82021 IS [AT] TCCTCCCTTGCCTGGCCGAGTGGCCCTTCATGGCAACGTCCACCC
82031 I A GCCAAATCACATCCATCCACCACCCAACGT
82031 P C A CGCGCCGAGGCCCACTTAATTCTCCATTGAY
82031 P G A ATGACGTGGCAGACGCCACTTAATTCTCCATTGAY
82031 T C A CTGGTCAATGGAGAATTAAGTGGGCGTTGGGTGGTGGATGGATGTGATTTGGCAG
82031 T G A CTGGTCAATGGAGAATTAAGTGGCCGTTGGGTGGTGGATGGATGTGATTTGGCAG
TTATTACACTGTTGTCACATTTGTCCCCTCTGCCAAATCACATCCATCCACCACCCAACG[CG]CCACTTAATTCTCCATT
82031 IS [CG] GACCAGGCCTGACCTGGGAGCCATGACCTGGGAAGCTACACTT
82034 I S TCCACCAGGCCCAGCTGGGAAGAAAT
82034 P T S CGCGCCGAGGAGCCTCTCTGTGCAGY
82034 P G S ATGACGTGGCAGACCGCCTCTCTGTGCAY
82034 T T S CCGGCTGCACAGAGAGGCTTTTCTTCCCAGCTGGGCCTGGTGGAGC
82034 T G S CCGGCTGCACAGAGAGGCGTTTCTTCCCAGCTGGGCCTGGTGGAGC
AGGTGCTTGGTGTTCGCCTGCCAGCCCAGAGCCCTGGAGGAGCCGGCTGCACAGAGAGGC[TG]TTCTTCCCAGCT
82034 IS [TG] GGGCCTGGTGGAGCCCGGGGCAGGGGGAGAGTAGAGACACTCCCTTG
82045 I S GGACTTCTGGGGAACCGTGGGATACAGAGAT
82045 P C S ATGACGTGGCAGACGAAACCTCAGGCCTCTY
82045 P T S CGCGCCGAGGAAAACCTCAGGCCTCTY
82045 T C S ACTCAGAGGCCTGAGGTTTCTCTCTGTATCCCACGGTTCCCCAGAAGTCCTT
82045 T T S ACTCAGAGGCCTGAGGTTTTTCTCTGTATCCCACGGTTCCCCAGAAGTCCTT
TGGCAGGGAGTCTAGGGGAGGGCAAGGGACTGGCATTGAAGACTCAGAGGCCTGAGGTTTT[CT]TCTCTGTATCCCAC
82045 IS [CT] GGTTCCCCAGAAGTCCTTAGATATAGCAAGTCCTCCTTCAGGGCTA
82047 I A CCGCCGCAGCGACCTCCGGT
82047 P A A CGCGCCGAGGAACCAACGAGACGAGCY
82047 P C A ATGACGTGGCAGACCACCAACGAGACGAGY
82047 T A A CTCCGCTCGTCTCGTTGGTTCCGGAGGTCGCTGCGGCGGTG
82047 T C A CTCCGCTCGTCTCGTTGGTGCCGGAGGTCGCTGCGGCGGTG
AGGGCCCCAGTGCCCCGCGCCGCGCGCGCCAGCATTTCCCACCGCCGCAGCGACCTCCGG[AC]ACCAACGAGACG
82047 IS [AC] AGCGGAGCGGTCGCTCCCAGAAGCCTACCCGAGCCTTTCCTCTTGCAG
82058 I S GAGGATGGGAAAAGGTGATTCACATTGCAGTGTGTTGT
82058 P T S CGCGCCGAGGACTGATACCCATTTCGTGY
82058 P C S ATGACGTGGCAGACGCTGATACCCATTTCGTGY
82058 T T S AATTCACGAAATGGGTATCAGTCAACACACTGCAATGTGAATCACCTTTTCCCATCCTCTC
82058 T C S AATTCACGAAATGGGTATCAGCCAACACACTGCAATGTGAATCACCTTTTCCCATCCTCTC
CATGAAGGCATCGAATCCTCTATCCACATCTCTGCTGCCAATTCACGAAATGGGTATCAG[TC]CAACACACTGCAATGT
82058 IS [TC] GAATCACCTTTTCCCATCCTCTCCAGGTCAGGGAGCAAAGAACA
82093 I A GGGTCAGCCAACTAGGAGAGGGGGGT
82093 P C A CGCGCCGAGGCCCTGGCCTTCTTCCY
82093 P G A ATGACGTGGCAGACGCCTGGCCTTCTTCCY
82093 T C A ACTAGGAAGAAGGCCAGGGCCCCCCTCTCCTAGTTGGCTGACCCAT
82093 T G A ACTAGGAAGAAGGCCAGGCCCCCCTCTCCTAGTTGGCTGACCCAT
CAGCCCAGCTAGCAAGGTAGCCAGAGAGCAAGAATGGGTCAGCCAACTAGGAGAGGGGGG[CG]CCTGGCCTTCTTC
82093 IS [CG] CTAGTGGTGGTGCCGCAGGTCTGGGGCACTGAGCCTGGGGAGCTGTG
82108 I A GGGCCAGGACTTGGGACTTCGCACT
82108 P A A CGCGCCGAGGAGCACCCTGCAGTCY
82108 P G A ATGACGTGGCAGACGGCACCCTGCAGTY
82108 T A A TTGGGACTGCAGGGTGCTGTGCGAAGTCCCAAGTCCTGGCCCAT
82108 T G A TTGGGACTGCAGGGTGCCGTGCGAAGTCCCAAGTCCTGGCCCAT
TCAATTGCCTTTCCTAAAGACAGACCTTAGCAAGATGGGCCAGGACTTGGGACTTCGCAC[AG]GCACCCTGCAGTCCC
82108 IS [AG] AAGCCAGCATCTACTGCACCCCATCTTCAGGACTCTATCCCCCAA
82115 I A GCTTCCAGGTAACATGGGACCCAATTGCGTACT
82115 P A A CGCGCCGAGGAATCTGCCTTTATATTCATCTCTY
82115 P C A ATGACGTGGCAGACCATCTGCCTTTATATTCATCTCTY
82115 T A A AGCAAGAGATGAATATAAAGGCAGATTGTACGCAATTGGGTCCCATGTTACCTGGAAGCTA
82115 T C A AGCAAGAGATGAATATAAAGGCAGATGGTACGCAATTGGGTCCCATGTTACCTGGAAGCTA
ATAACGTAGAGAAGGGGAAGAAGACATAGCTTCCAGGTAACATGGGACCCAATTGCGTAC[AC]ATCTGCCTTTATATT
82115 IS [AC] CATCTCTTGCTCTATATTTTAAGTAATTTCAGATTTTCCTTTTAA
82121 I A GACAAAACCCAAACACTTTTCTTCTGCAATTCATGAAGGAAAGATTACAAAATAT
82121 P C A CGCGCCGAGGCTGGAAAACATCATTTCGGY
82121 P G A ATGACGTGGCAGACGTGGAAAACATCATTTCGGY
82121 T C A AAAACCGAAATGATGTTTTCCAGTATTTTGTAATCTTTCCTTCATGAATTGCAGAAGAAAAGTGTTTGGGTTTTGTCCC
82121 T G A AAAACCGAAATGATGTTTTCCACTATTTTGTAATCTTTCCTTCATGAATTGCAGAAGAAAAGTGTTTGGGTTTTGTCCC
GAATGGGACAAAACCCAAACACTTTTCTTCTGCAATTCATGAAGGAAAGATTACAAAATA[CG]TGGAAAACATCATTTC
82121 IS [CG] GGTTTTTTTTTCTATGCACAGAGAATGAATGATAAGCCTTAAGC
82130 I A CAGCTCTTCCCACCCAGCCCCCT
82130 P G A ATGACGTGGCAGACGCAACTGTTACTCAAATTTATTTGY
82130 P C A CGCGCCGAGGCCAACTGTTACTCAAATTTATTTGY
82130 T G A CTTACAAATAAATTTGAGTAACAGTTGCGGGGGCTGGGTGGGAAGAGCTGAA
82130 T C A CTTACAAATAAATTTGAGTAACAGTTGGGGGGGCTGGGTGGGAAGAGCTGAA
AAATTGGCAAGTTGGTGACCTCAGAAAACCTAGAAATTCAGCTCTTCCCACCCAGCCCCC[GC]CAACTGTTACTCAAAT
82130 IS [GC] TTATTTGTAAGATCTCTATGAAGTGCAGCAGGGTCCCACAGGGG
82134 I S ACCCTCTGGAATTAAGACCACGAGTTATAAAGCAAAACCCATAT
82134 P C S ATGACGTGGCAGACGGAGCATGTGAATACTTACAY
82134 P T S CGCGCCGAGGAGAGCATGTGAATACTTACATTY
82134 T C S CAAAAATGTAAGTATTCACATGCTCCTATGGGTTTTGCTTTATAACTCGTGGTCTTAATTCCAGAGGGTAG
82134 T T S CAAAAATGTAAGTATTCACATGCTCTTATGGGTTTTGCTTTATAACTCGTGGTCTTAATTCCAGAGGGTAG
GCCATCCAGAAATAAATTAAGCGTGTTACACAGAACAAAAATGTAAGTATTCACATGCT[CT]TATGGGTTTTGCTTTAT
82134 IS [CT] AACTCGTGGTCTTAATTCCAGAGGGTAGAAAAGGACGGCCAAA
82176 I S TCTGACAGCCCACGTGCTCCCCAGA
82176 P A S CGCGCCGAGGTGCTCATCACAGAAAATAAAAGY
82176 P G S ATGACGTGGCAGACCGCTCATCACAGAAAATAAAAY
82176 T A S GCCCCTTTTATTTTCTGTGATGAGCACTGGGGAGCACGTGGGCTGTCAGACC
82176 T G S GCCCCTTTTATTTTCTGTGATGAGCGCTGGGGAGCACGTGGGCTGTCAGACC
CAATCAGGACAGGAGCTGCGGGCAACCTAGACATAGCCCCTTTTATTTTCTGTGATGAGC[AG]CTGGGGAGCACGTG
82176 IS [AG] GGCTGTCAGACCGGAGTAGCTCAGAGCAGTGGACCCAGGCTGGGGA

FIGURE 129D

82210 I			A	CTCTTTTAAGTAGGTGAAACACTCATAATCTTATTTATAGAATTAATGTGCACAGA
82210 P	C		A	ATGACGTGGCAGACCAGGCAGTTTTTCAGAAGY
82210 P	T		A	CGCGCCGAGGTAGGCAGTTTTTCAGAAGCY
82210 T	C		A	TTTTGCTTCTGAAAAACTGCCTGCTGTGCACATTAATTCTATAAATAAGATTATGAGTGTTTCACCTACTTAAAAGAGCA
82210 T	T		A	TTTTGCTTCTGAAAAACTGCCTACTGTGCACATTAATTCTATAAATAAGATTATGAGTGTTTCACCTACTTAAAAGAGCA
82210 IS	[CT]			TTTTGCTCTTTTAAGTAGGTGAAACACTCATAATCTTATTTATAGAATTAATGTGCACAG[CT]AGGCAGTTTTTCAGAAG CAAAACCCAACCTAGATCTCAGGCTGGGCCAAATGATAAGATG
82402 I			S	AGAACAGATGAAACGGCAGAGATTCTCTGAGAATATCCCATAAGAT
82402 P	C		S	ATGACGTGGCAGACGCCCTTGATGCAGAGY
82402 P	T		S	CGCGCCGAGGACCCTTGATGCAGAGGY
82402 T	C		S	ATGGCCTCTGCATCAAGGGCTCTTATGGGATATTCTCAGAGAATCTCTGCCGTTTCATCTGTTCTGA
82402 T	T		S	ATGGCCTCTGCATCAAGGGTTCTTATGGGATATTCTCAGAGAATCTCTGCCGTTTCATCTGTTCTGA
82402 IS	[CT]			GCTAAGGTGACCCTCCCCTTCTGCTGGAAGTACCATGCCATATGGCCTCTGCATCAAGGG[CT]TCTTATGGGATATTC TCAGAGAATCTCTGCCGTTTCATCTGTTCTGATATCTACCCAAGC
82415 I			A	ACTGTGCTTCTTGTGGTACTCAAAAAGACTTGTTGAGAAGTGAT
82415 P	G		A	ATGACGTGGCAGACGTCGAAACTTCATGCTGAY
82415 P	A		A	CGCGCCGAGGATCGAAACTTCATGCTGACY
82415 T	G		A	ATAAGTCAGCATGAAGTTTCGACTCACTTCTCAACAAGTCTTTTTGAGTACCACAAGAAGCACAGTGT
82415 T	A		A	ATAAGTCAGCATGAAGTTTCGATTCACTTCTCAACAAGTCTTTTTGAGTACCACAAGAAGCACAGTGT
82415 IS	[GA]			ACAGCTTTTATCCCAACACTGTGCTTCTTGTGGTACTCAAAAAGACTTGTTGAGAAGTG[GA]TCGAAACTTCATGCTG ACTTATGAAATCTTTACGGAAAAGGTAACAATATTGTGAAAGCAG
84229 I			A	CCTGAAGTGCAAACTGACTTCAATTTTGAATAAAATTTAGCATTCAC
84229 P	A		A	CGCGCCGAGGAATTTATAGCCACTTTGAAAACTY
84229 P	T		A	ATGACGTGGCAGACTATTTATAGCCACTTTGAAAACTGY
84229 T	A		A	CCCTCAGTTTTCAAAGTGGCTATAAATTTGAATGCTAAATTTTATTCAAAATTGAAGTCAGTTTGCACTTCAGGGA
84229 T	T		A	CCCTCAGTTTTCAAAGTGGCTATAAATATGAATGCTAAATTTTATTCAAAATTGAAGTCAGTTTGCACTTCAGGGA
84229 IS	[AT]			TTAAAAAATTACTCCCTGAAGTGCAAACTGACTTCAATTTTGAATAAAATTTAGCATTCA[AT]ATTTATAGCCACTTTGAA AACTGAGGGTTTATTTATATCATATGAACTTGAACAGATACT
84253 I			S	CAGATGGAAATTCCCAGTTCTAACTTGATTTTTCAGTGTGTTGGTTT
84253 P	T		S	CGCGCCGAGGAATCTCCTTCATATACAAATGGTY
84253 P	G		S	ATGACGTGGCAGACCATCTCCTTCATATACAAATGGTY
84253 T	T		S	TTCTACCATTTGTATATGAAGGAGATTAACCAACACACTGAAAAATCAAGTTAGAACTGGGAATTTCCATCTGCT
84253 T	G		S	TTCTACCATTTGTATATGAAGGAGATGAACCAACACACTGAAAAATCAAGTTAGAACTGGGAATTTCCATCTGCT
84253 IS	[TG]			AAATTTAAAATAATCTCCCATTAGAAACCAAAACTTCTACCATTTGTATATGAAGGAGAT[TG]AACCAACACACTGAAAA ATCAAGTTAGAACTGGGAATTTCCATCTGCTAAATAAACAGCA
84257 I			S	GATGACCGCGGCTGCCTGACCTTCT
84257 P	C		S	ATGACGTGGCAGACGTCTCCAAGTTAGATATTCCAAY
84257 P	T		S	CGCGCCGAGGATCTCCAAGTTAGATATTCCAAAY
84257 T	C		S	CTGTTTTGGAATATCTAACTTGGAGACGAAGGTCAGGCAGCCGCGGTCATCGT
84257 T	T		S	CTGTTTTGGAATATCTAACTTGGAGATGAAGGTCAGGCAGCCGCGGTCATCGT
84257 IS	[CT]			AGCGTTCCATGGCAGACATGTTGCGTTGGATGCTCTGTTTTGGAATATCTAACTTGGAGA[CT]GAAGGTCAGGCAGCC GCGGTCATCGTAGTTAAAGAGCATTGGGCAGCAGTCATGGCCCTG
84295 I			A	CTTTGGTGGGAGGATGTTCGAGGCAGCT
84295 P	C		A	ATGACGTGGCAGACCGGGTATGGGGACTGY
84295 P	A		A	CGCGCCGAGGAGGGTATGGGGACTGTY
84295 T	C		A	GGCCACAGTCCCCATACCCGGCTGCCTCGAACATCCTCCCACCAAAGCC
84295 T	A		A	GGCCACAGTCCCCATACCCTGCTGCCTCGAACATCCTCCCACCAAAGCC
84295 IS	[CA]			CAGCATGCAGGTAAGAGAGGCTGGGGGCCCTGGCTTTGGTGGGAGGATGTTCGAGGCAGC[CA]GGGTATGGGGACT GTGGCCACCATCGGTGGGAGGTGGGGTTGGGTGGATCCCTCTCACTT
84299 I			S	CCTGAAAGGGGGAATGAGATTGCCACAACT
84299 P	C		S	ATGACGTGGCAGACGTCATACCAGGCCCTTY
84299 P	T		S	CGCGCCGAGGATCATACCAGGCCCTTY
84299 T	C		S	GTGCAAGGGCCTGGTATGACGTTGTGGCAATCTCATTCCCCCTTTCAGGTA
84299 T	T		S	GTGCAAGGGCCTGGTATGATGTTGTGGCAATCTCATTCCCCCTTTCAGGTA
84299 IS	[CT]			ATATGTTTTCCTTTTCTCTCCAGAGTGCCTAGGGCAGAGCTGTGCAAGGGCCTGGTATGA[CT]GTTGTGGCAATCTCA TTCCCCCTTTCAGGTATATAATGTTGACTCCAAAACCTATAATGC
84317 I			A	AGATGGGATGTAAATCACCATGACTGTCATCACTTATGAACAGTGT
84317 P	A		A	CGCGCCGAGGACTTAAACTCACACTACTTTTGTY
84317 P	G		A	ATGACGTGGCAGACGCTTAAACTCACACTACTTTTGY
84317 T	A		A	GATCACAAAAGTAGTGTGAGTTTAAGTCACTGTTCATAAGTGATGACAGTCATGGTGATTTACATCCCATCTAT
84317 T	G		A	GATCACAAAAGTAGTGTGAGTTTAAGCCACTGTTCATAAGTGATGACAGTCATGGTGATTTACATCCCATCTAT
84317 IS	[AG]			ATATTTAAGCTTAATAGATGGGATGTAAATCACCATGACTGTCATCACTTATGAACAGT[AG]CTTAAACTCACACTACT TTTGTGATCATTAAAATGAACTTGTAATCATTAAAATGAATGT
84319 I			S	GTCATTCTCAAATAGAAAAGTAGTAGGACATTTAATAAAGGCAACAATTAATATTGAAT
84319 P	C		S	ATGACGTGGCAGACGAAGTGGAATCTTTTGGGTY
84319 P	G		S	CGCGCCGAGGCAAGTGGAATCTTTTGGGTY
84319 T	C		S	ATTTACCCAAAAGATTCCACTTCTTCAATATTAATTGTTGCCTTTATTAAATGTCCTACTACTTTTCTATTTGAGAATGAC AC
84319 T	G		S	ATTTACCCAAAAGATTCCACTTGTTCAATATTAATTGTTGCCTTTATTAAATGTCCTACTACTTTTCTATTTGAGAATGAC AC
84319 IS	[CG]			AATTAAGAGAATTATCCTTACATCATGCAAATAATTATATTTACCCAAAAGATTCCACTT[CG]TTCAATATTAATTGTTGC CTTTATTAAATGTCCTACTACTTTTCTATTTGAGAATGACAC
84334 I			S	GACAGTAGAAGTGTATTTGGGGGGAAATGCAATT
84334 P	T		S	CGCGCCGAGGATACTTATCACATCAGACTCCY
84334 P	C		S	ATGACGTGGCAGACGTACTTATCACATCAGACTCCY
84334 T	T		S	CACGGGAGTCTGATGTGATAAGTATATTGCATTTCCCCCCAAATACACTTCTACTGTCAG
84334 T	C		S	CACGGGAGTCTGATGTGATAAGTACATTGCATTTCCCCCCAAATACACTTCTACTGTCAG
84334 IS	[TC]			GAAAAAGGCTAACATTAAAACCACCAAATAAAATCCCACGGGAGTCTGATGTGATAAGTA[TC]ATTGCATTTCCCCCCA AATACACTTCTACTGTCAGTAGAAATATTTCCCATCCCTTTTAA
84343 I			S	GCTTAGCCACTTGAAAAACGTGAAATGATAGAACCATTGGAAAATATGTT
84343 P	T		S	CGCGCCGAGGATAATCTGAACCATGTTACAAAAGY
84343 P	C		S	ATGACGTGGCAGACGTAATCTGAACCATGTTACAAAAY
84343 T	T		S	TTGACTTTTGTAACATGGTTCAGATTATACATATTTCCAATGGTTCTATCATTTCACGTTTTTCAAGTGGCTAAGCAG
84343 T	C		S	TTGACTTTTGTAACATGGTTCAGATTACACATATTTCCAATGGTTCTATCATTTCACGTTTTTCAAGTGGCTAAGCAG

FIGURE 129D

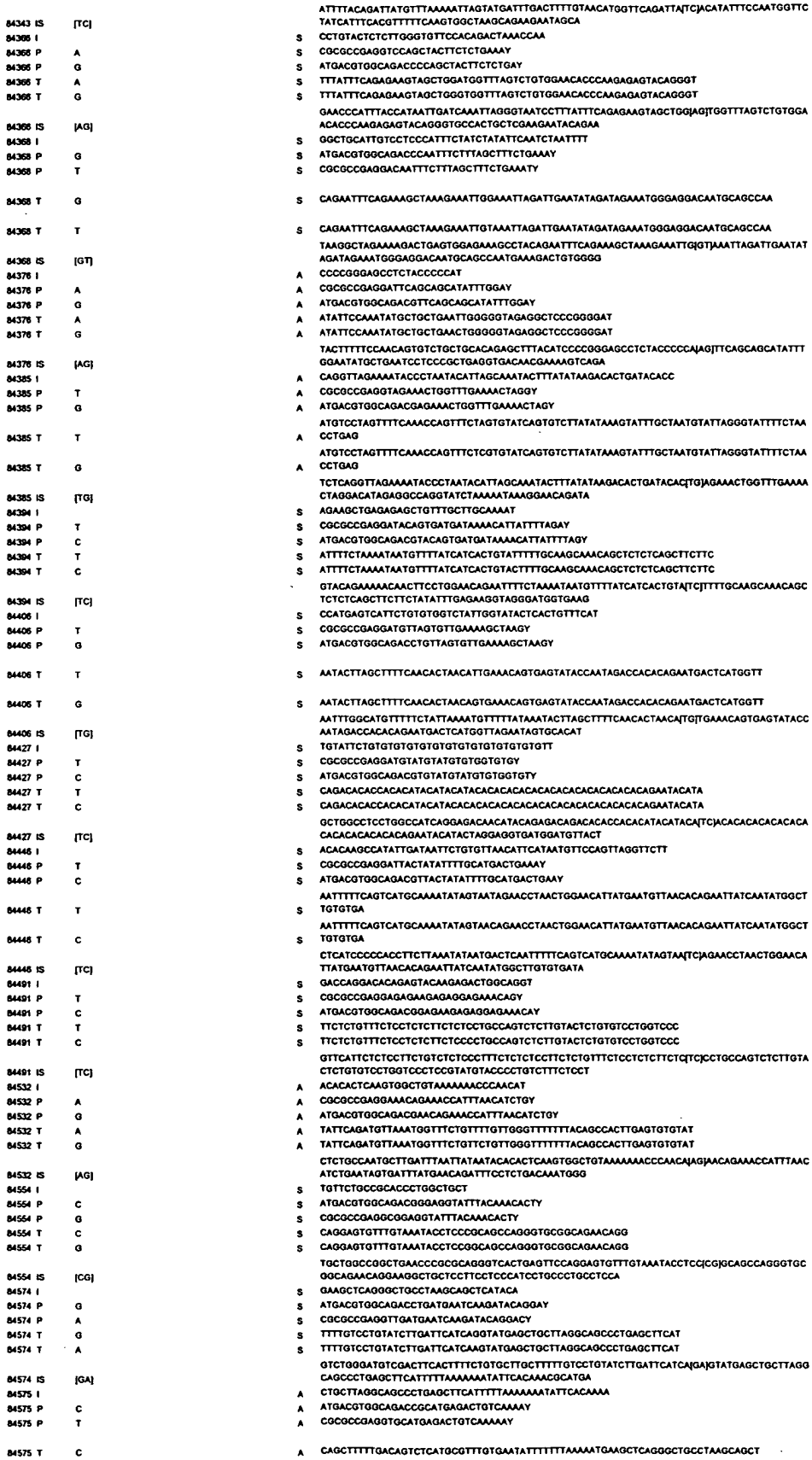

ATTTTACAGATTATGTTTAAAAATTAGTATGATTTGACTTTTGTAACATGGTTCAGATTA[TC]ACATATTTCCAATGGTTC
84343 IS [TC] TATCATTTCACGTTTTTCAAGTGGCTAAGCAGAAGAATAGCA
84366 I S CCTGTACTCTCTTGGGTGTTCCACAGACTAAACCAA
84366 P A S CGCGCCGAGGTCCAGCTACTTCTCTGAAAY
84366 P G S ATGACGTGGCAGACCCCAGCTACTTCTCTGAY
84366 T A S TTTATTTCAGAGAAGTAGCTGGATGGTTTAGTCTGTGGAACACCCAAGAGAGTACAGGGT
84366 T G S TTTATTTCAGAGAAGTAGCTGGGTGGTTTAGTCTGTGGAACACCCAAGAGAGTACAGGGT
GAACCCATTTACCATAATTGATCAAATTAGGGTAATCCTTTATTTCAGAGAAGTAGCTGG[AG]TGGTTTAGTCTGTGGA
84366 IS [AG] ACACCCAAGAGAGTACAGGGTGCCACTGCTCGAAGAATACAGAA
84368 I S GGCTGCATTGTCCTCCCATTTCTATCTATATTCAATCTAATTTT
84368 P G S ATGACGTGGCAGACCCAATTTCTTTAGCTTTCTGAAAY
84368 P T S CGCGCCGAGGACAATTTCTTTAGCTTTCTGAAATY
84368 T G S CAGAATTTCAGAAAGCTAAAGAAATTGGAAATTAGATTGAATATAGATAGAAATGGGAGGACAATGCAGCCAA
84368 T T S CAGAATTTCAGAAAGCTAAAGAAATTGTAAATTAGATTGAATATAGATAGAAATGGGAGGACAATGCAGCCAA
TAAGGCTAGAAAAGACTGAGTGGAGAAAGCCTACAGAATTTCAGAAAGCTAAAGAAATTG[GT]AAATTAGATTGAATAT
84368 IS [GT] AGATAGAAATGGGAGGACAATGCAGCCAATGAAAGACTGTGGGG
84376 I A CCCCGGGAGCCTCTACCCCCAT
84376 P A A CGCGCCGAGGATTCAGCAGCATATTTGGAY
84376 P G A ATGACGTGGCAGACGTTCAGCAGCATATTTGGAY
84376 T A A ATATTCCAAATATGCTGCTGAATTGGGGGTAGAGGCTCCCGGGGAT
84376 T G A ATATTCCAAATATGCTGCTGAACTGGGGGTAGAGGCTCCCGGGGAT
TACTTTTTCCAACAGTGTCTGCTGCACAGAGCTTTACATCCCCGGGAGCCTCTACCCCCA[AG]TTCAGCAGCATATTT
84376 IS [AG] GGAATATGCTGAATCCTCCCGCTGAGGTGACAACGAAAAGTCAGA
84385 I A CAGGTTAGAAAATACCCTAATACATTAGCAAATACTTTATATAAGACACTGATACACC
84385 P T A CGCGCCGAGGTAGAAACTGGTTTGAAAACTAGGY
84385 P G A ATGACGTGGCAGACGAGAAACTGGTTTGAAAACTAGY
ATGTCCTAGTTTTCAAACCAGTTTCTAGTGTATCAGTGTCTTATATAAAGTATTTGCTAATGTATTAGGGTATTTTCTAA
84385 T T A CCTGAG
ATGTCCTAGTTTTCAAACCAGTTTCTCGTGTATCAGTGTCTTATATAAAGTATTTGCTAATGTATTAGGGTATTTTCTAA
84385 T G A CCTGAG
TCTCAGGTTAGAAAATACCCTAATACATTAGCAAATACTTTATATAAGACACTGATACAC[TG]AGAAACTGGTTTGAAAA
84385 IS [TG] CTAGGACATAGAGGCCAGGTATCTAAAAATAAAGGAACAGATA
84394 I S AGAAGCTGAGAGAGCTGTTTGCTTGCAAAAT
84394 P T S CGCGCCGAGGATACAGTGATGATAAAACATTATTTTAGAY
84394 P C S ATGACGTGGCAGACGTACAGTGATGATAAAACATTATTTTAGY
84394 T T S ATTTTCTAAAATAATGTTTTATCATCACTGTATTTTTGCAAGCAAACAGCTCTCTCAGCTTCTTC
84394 T C S ATTTTCTAAAATAATGTTTTATCATCACTGTACTTTTGCAAGCAAACAGCTCTCTCAGCTTCTTC
GTACAGAAAAACAACTTCCTGGAACAGAATTTTCTAAAATAATGTTTTATCATCACTGTA[TC]TTTTGCAAGCAAACAGC
84394 IS [TC] TCTCTCAGCTTCTTCTATATTTGAGAAGGTAGGGATGGTGAAG
84406 I S CCATGAGTCATTCTGTGTGGTCTATTGGTATACTCACTGTTTCAT
84406 P T S CGCGCCGAGGATGTTAGTGTTGAAAAGCTAAGY
84406 P G S ATGACGTGGCAGACCTGTTAGTGTTGAAAAGCTAAGY
84406 T T S AATACTTAGCTTTTCAACACTAACATTGAAACAGTGAGTATACCAATAGACCACACAGAATGACTCATGGTT
84406 T G S AATACTTAGCTTTTCAACACTAACAGTGAAACAGTGAGTATACCAATAGACCACACAGAATGACTCATGGTT
AATTTGGCATGTTTTTCTATTAAAATGTTTTTATAAATACTTAGCTTTTCAACACTAACA[TG]TGAAACAGTGAGTATACC
84406 IS [TG] AATAGACCACACAGAATGACTCATGGTTAGAATAGTGCACAT
84427 I S TGTATTCTGTGTGTGTGTGTGTGTGTGTGTGTT
84427 P T S CGCGCCGAGGATGTATGTATGTGTGGTGTGY
84427 P C S ATGACGTGGCAGACGTGTATGTATGTGTGGTGTY
84427 T T S CAGACACACCACACATACATACATACACACACACACACACACACACACACACAGAATACATA
84427 T C S CAGACACACCACACATACATACACACACACACACACACACACACACACACACAGAATACATA
GCTGGCCTCCTGGCCATCAGGAGACAACATACAGAGACAGACACACCACACATACATACA[TC]ACACACACACACACA
84427 IS [TC] CACACACACACACAGAATACATACTAGGAGGTGATGGATGTTACT
84446 I S ACACAAGCCATATTGATAATTCTGTGTTAACATTCATAATGTTCCAGTTAGGTTCTT
84446 P T S CGCGCCGAGGATTACTATATTTTGCATGACTGAAAY
84446 P C S ATGACGTGGCAGACGTTACTATATTTTGCATGACTGAAY
AATTTTTCAGTCATGCAAAATATAGTAATAGAACCTAACTGGAACATTATGAATGTTAACACAGAATTATCAATATGGCT
84446 T T S TGTGTGA
AATTTTTCAGTCATGCAAAATATAGTAACAGAACCTAACTGGAACATTATGAATGTTAACACAGAATTATCAATATGGCT
84446 T C S TGTGTGA
CTCATCCCCCACCTTCTTAAATATAATGACTCAATTTTTCAGTCATGCAAAATATAGTAA[TC]AGAACCTAACTGGAACA
84446 IS [TC] TTATGAATGTTAACACAGAATTATCAATATGGCTTGTGTGATA
84491 I S GACCAGGACACAGAGTACAAGAGACTGGCAGGT
84491 P T S CGCGCCGAGGAGAGAAGAGAGGAGAAACAGY
84491 P C S ATGACGTGGCAGACGGAGAAGAGAGGAGAAACAY
84491 T T S TTCTCTGTTTCTCCTCTCTTCTCTCCTGCCAGTCTCTTGTACTCTGTGTCCTGGTCCC
84491 T C S TTCTCTGTTTCTCCTCTCTTCTCCCCTGCCAGTCTCTTGTACTCTGTGTCCTGGTCCC
GTTCATTCTCTCCTTCTGTCTCTCCCTTTCTCTCTCCTTCTCTGTTTCTCCTCTTCTC[TC]CCTGCCAGTCTCTTGTA
84491 IS [TC] CTCTGTGTCCTGGTCCCTCCGTATGTACCCCTGTCTTTCTCCT
84532 I A ACACACTCAAGTGGCTGTAAAAAAACCCAACAT
84532 P A A CGCGCCGAGGAAACAGAAACCATTTAACATCTGY
84532 P G A ATGACGTGGCAGACGAACAGAAACCATTTAACATCTGY
84532 T A A TATTCAGATGTTAAATGGTTTCTGTTTTGTTGGGTTTTTTTACAGCCACTTGAGTGTGTAT
84532 T G A TATTCAGATGTTAAATGGTTTCTGTTCTGTTGGGTTTTTTTACAGCCACTTGAGTGTGTAT
CTCTGCCAATGCTTGATTTAATTATAATACACACTCAAGTGGCTGTAAAAAAACCCAACA[AG]AACAGAAACCATTTAAC
84532 IS [AG] ATCTGAATAGTGATTTATGAACAGATTTCCTCTGACAAATGGG
84554 I S TGTTCTGCCGCACCCTGGCTGCT
84554 P C S ATGACGTGGCAGACGGGAGGTATTTACAAACACTY
84554 P G S CGCGCCGAGGCGGAGGTATTTACAAACACTY
84554 T C S CAGGAGTGTTTGTAAATACCTCCCGCAGCCAGGGTGCGGCAGAACAGG
84554 T G S CAGGAGTGTTTGTAAATACCTCCGGCAGCCAGGGTGCGGCAGAACAGG
TGCTGGCCGGCTGAACCCGCGCAGGGTCACTGAGTTCCAGGAGTGTTTGTAAATACCTCC[CG]GCAGCCAGGGTGC
84554 IS [CG] GGCAGAACAGGAAGGCTGCTCCTTCCTCCCATCCTGCCCTGCCTCCA
84574 I S GAAGCTCAGGGCTGCCTAAGCAGCTCATACA
84574 P G S ATGACGTGGCAGACCTGATGAATCAAGATACAGGAY
84574 P A S CGCGCCGAGGTTGATGAATCAAGATACAGGACY
84574 T G S TTTTGTCCTGTATCTTGATTCATCAGGTATGAGCTGCTTAGGCAGCCCTGAGCTTCAT
84574 T A S TTTTGTCCTGTATCTTGATTCATCAAGTATGAGCTGCTTAGGCAGCCCTGAGCTTCAT
GTCTGGGATGTCGACTTCACTTTTCTGTGCTTGCTTTTTGTCCTGTATCTTGATTCATCA[GA]GTATGAGCTGCTTAGG
84574 IS [GA] CAGCCCTGAGCTTCATTTTTAAAAAAATATTCACAAACGCATGA
84575 I A CTGCTTAGGCAGCCCTGAGCTTCATTTTTAAAAAAATATTCACAAAA
84575 P C A ATGACGTGGCAGACCGCATGAGACTGTCAAAAY
84575 P T A CGCGCCGAGGTGCATGAGACTGTCAAAAAY
84575 T C A CAGCTTTTTGACAGTCTCATGCGTTTGTGAATATTTTTTTAAAAATGAAGCTCAGGGCTGCCTAAGCAGCT

FIGURE 129D

84575 T	T	A	CAGCTTTTTGACAGTCTCATGCATTTGTGAATATTTTTTTAAAAATGAAGCTCAGGGCTGCCTAAGCAGCT		
84575 IS	[CT]		TCATCAGGTATGAGCTGCTTAGGCAGCCCTGAGCTTCATTTTTAAAAAAATATTCACAAA[CT]GCATGAGACTGTCAAA AAGCTGTTTTGAACTTCTTAGCTTCTTAGTAGCAACTTACTACT		
84590 I		A	TGCAGCTTATCATGATCTTCCAATGTCTTAAATCAGTCACCAGTC		
84590 P	T	A	CGCGCCGAGGTCCAGAAAAGTTCTTTACGACY		
84590 P	A	A	ATGACGTGGCAGACACCAGAAAAGTTCTTTACGAY		
84590 T	T	A	CATTGTCGTAAAGAACTTTTCTGGAACTGGTGACTGATTTAAGACATTGGAAGATCATGATAAGCTGCATA		
84590 T	A	A	CATTGTCGTAAAGAACTTTTCTGGTACTGGTGACTGATTTAAGACATTGGAAGATCATGATAAGCTGCATA		
84590 IS	[TA]		ATGTGACTGGAAGATATGCAGCTTATCATGATCTTCCAATGTCTTAAATCAGTCACCAGT[TA]CCAGAAAAGTTCTTTAC GACAATGTTTAAAAATTATTTTTCTACGTAATTGCTAAAATTA		LOC51071
84601 I		A	TGATCTCAACCAACCATTAAAGGGTCTGAATGACTTATTACTATATATCC		
84601 P	T	A	CGCGCCGAGGTGAATTATTGTATTCTTCTTGGTGY		
84601 P	G	A	ATGACGTGGCAGACGGAATTATTGTATTCTTCTTGGTGY		
84601 T	T	A	ATTACACCAAGAAGAATACAATAATTCAGATATATAGTAATAAGTCATTCAGACCCTTTAATGGTTGGTTGAGATCATT		
84601 T	G	A	ATTACACCAAGAAGAATACAATAATTCCGATATATAGTAATAAGTCATTCAGACCCTTTAATGGTTGGTTGAGATCATT		
84601 IS	[TG]		CAGTATTATAATGATCTCAACCAACCATTAAAGGGTCTGAATGACTTATTACTATATATC[TG]GAATTATTGTATTCTTCT TGGTGTAATTATTATTATAGTATTATTATCTGAATAGCTTTT		
84607 I		S	AAGTTACTTTAAAAGAGGGCCTAAACATGGGAGATTCAT		
84607 P	T	S	CGCGCCGAGGATATGTTTTTGGACACAATGGY		
84607 P	C	S	ATGACGTGGCAGACGTATGTTTTTGGACACAATGGY		
84607 T	T	S	ACAACCATTGTGTCCAAAAACATATTGAATCTCCCATGTTTAGGCCCTCTTTTAAAGTAACTTTC		
84607 T	C	S	ACAACCATTGTGTCCAAAAACATACTGAATCTCCCATGTTTAGGCCCTCTTTTAAAGTAACTTTC		
84607 IS	[TC]		AAATCAAGACCAACAAATACTGCGAATTTGAGTGAAACAACCATTGTGTCCAAAAACATA[TC]TGAATCTCCCATGTTTA GGCCCTCTTTTAAAGTAACTTTCTCTCTTTACTCTCTACAGGC		
84650 I		S	GGCTGACCAATAAAACTGCTAACCCCAAGGGCT		
84650 P	C	S	ATGACGTGGCAGACGCATGGAAGTAGCCTCTY		
84650 P	T	S	CGCGCCGAGGACATGGAAGTAGCCTCTAGY		
84650 T	C	S	CAGTCTAGAGGCTACTTCCATGCGCCCTTGGGGTTAGCAGTTTTATTGGTCAGCCCA		
84650 T	T	S	CAGTCTAGAGGCTACTTCCATGTGCCCTTGGGGTTAGCAGTTTTATTGGTCAGCCCA		
84650 IS	[CT]		CCACCTCCTCTCCCAGTTCTCCCCACCTCTCTGAGAGTCAGTCTAGAGGCTACTTCCATG[CT]GCCCTTGGGGTTAGC AGTTTTATTGGTCAGCCCAGAGTCTGAGTTTGGTGGACAGTGCTT		
84674 I		S	TGGAAAAGGCCCAGGGAATGCAACTTT		
84674 P	T	S	CGCGCCGAGGATATTTGCATTCATTTAATGGTTCTY		
84674 P	C	S	ATGACGTGGCAGACGTATTTGCATTCATTTAATGGTTCY		
84674 T	T	S	ATCCAGAACCATTAAATGAATGCAAATATAAGTTGCATTCCCTGGGCCTTTTCCAAT		
84674 T	C	S	ATCCAGAACCATTAAATGAATGCAAATACAAGTTGCATTCCCTGGGCCTTTTCCAAT		
84674 IS	[TC]		AATCAAGTAGATTTTCAACATTAAACGTCTTCATCCAGAACCATTAAATGAATGCAAATA[TC]AAGTTGCATTCCCTGGG CCTTTTCCAATACCTAAATTCCTAACAATAACATTACTCTTTT		
84676 I		A	GGGAAGAGAATATAGAACCAACTTACCATTTTCATCTACTGCT		
84676 P	A	A	CGCGCCGAGGAAGCACACTTGCTCCTY		
84676 P	C	A	ATGACGTGGCAGACCAGCACACTTGCTCCY		
84676 T	A	A	GAAAAGGAGCAAGTGTGCTTGCAGTAGATGAAAATGGTAAGTTGGTTCTATATTCTCTTCCCTT		
84676 T	C	A	GAAAAGGAGCAAGTGTGCTGGCAGTAGATGAAAATGGTAAGTTGGTTCTATATTCTCTTCCCTT		
84676 IS	[AC]		ATAAAAGCTCTAGGTTAAGGGAAGAGAATATAGAACCAACTTACCATTTTCATCTACTGC[AC]AGCACACTTGCTCCTT TTCCCAAAAGTTCCTGAACCACCATTGTTAGCCCATTTCGGGCA		
84687 I		A	TGGGTGAAGTCCCAGGGGGCACTT		
84687 P	G	A	ATGACGTGGCAGACGAATTCCCCTCCTGGTY		
84687 P	A	A	CGCGCCGAGGAAATTCCCCTCCTGGTY		
84687 T	G	A	AATGACCAGGAGGGGAATTCAGTGCCCCCTGGGACTTCACCCACT		
84687 T	A	A	AATGACCAGGAGGGGAATTTAGTGCCCCCTGGGACTTCACCCACT		
84687 IS	[GA]		GGGCTCAGCCGATCCTCTCCAAGCTGGAGCCCCAGAGTGGGTGAAGTCCCAGGGGGCACT[GA]AATTCCCCTCCTG GTCATTTCCCTGGGTGGGGAGTAGGGGGGTCTACCCAGCTCTTGGTC		
84691 I		A	GTCTTTGTATAGAGCCATAGAGAGAAACAGTCTTAACTCATTTATGTAA		
84691 P	T	A	CGCGCCGAGGTTTCCCATTTAATTCTGATGACY		
84691 P	C	A	ATGACGTGGCAGACCTTCCCATTTAATTCTGATGACY		
84691 T	T	A	GTCTGTCATCAGAATTAAATGGGAAATACATAAATGAGTTAAGACTGTTTCTCTCTATGGCTCTATACAAAGACAA		
84691 T	C	A	GTCTGTCATCAGAATTAAATGGGAAGTACATAAATGAGTTAAGACTGTTTCTCTCTATGGCTCTATACAAAGACAA		
84691 IS	[TC]		AAAGTAGTAATTGTCTTTGTATAGAGCCATAGAGAGAAACAGTCTTAACTCATTTATGTA[TC]TTCCCATTTAATTCTGA TGACAGACCAAAGGCAATTTAATTTTGGTTATAATTGAGGATG		
84702 I		A	TTGGAAATATTATAGAGTTTTAAATTTAAGAAGCACTTTATTTTTATCATAATCCTAGCAA		
84702 P	T	A	CGCGCCGAGGTCAGCACTAACATTCAGAGY		
84702 P	C	A	ATGACGTGGCAGACCCAGCACTAACATTCAGAGY		
84702 T	T	A	GAGGCTCTGAATGTTAGTGCTGATGCTAGGATTATGATAAAAATAAAGTGCTTCTTAAATTTAAAACTCTATAATATTTC CAA		
84702 T	C	A	GAGGCTCTGAATGTTAGTGCTGGTGCTAGGATTATGATAAAAATAAAGTGCTTCTTAAATTTAAAACTCTATAATATTTC CAA		
84702 IS	[TC]		TTGGAAATATTATAGAGTTTTAAATTTAAGAAGCACTTTATTTTTATCATAATCCTAGCA[TC]CAGCACTAACATTCAGAG CCTCAAATACTCAACAGTTCTTGCTTGAAAATAAATTGCAAA		
84703 I		S	CCCTCTTGGGATCCTATGTATCTGAGCTGCTCTATGTTTAATCT		
84703 P	T	S	CGCGCCGAGGATCATCATGTCACCATCAAAY		
84703 P	C	S	ATGACGTGGCAGACGTCATCATGTCACCATCAAY		
84703 T	T	S	TATTTTTGATGGTGACATGATGATGATTAAACATAGAGCAGCTCAGATACATAGGATCCCAAGAGGGTA		
84703 T	C	S	TATTTTTGATGGTGACATGATGACGATTAAACATAGAGCAGCTCAGATACATAGGATCCCAAGAGGGTA		
84703 IS	[TC]		GGTGACCAGAATCATATGTATGCAGCGGTTTAATAAATATTTTTGATGGTGACATGATGA[TC]GATTAAACATAGAGCA GCTCAGATACATAGGATCCCAAGAGGGTAGAGTGGGACTCTGAC		
84706 I		A	GCAGCTAAGGAGACAGTACGTAAGCACTTGGATCTCT		
84706 P	G	A	ATGACGTGGCAGACGCCAGGATGGAATTGGY		
84706 P	A	A	CGCGCCGAGGACCAGGATGGAATTGGAY		
84706 T	G	A	ACATTCCAATTCCATCCTGGCGAGATCCAAGTGCTTACGTACTGTCTCCTTAGCTGCCT		
84706 T	A	A	ACATTCCAATTCCATCCTGGTGAGATCCAAGTGCTTACGTACTGTCTCCTTAGCTGCCT		
84706 IS	[GA]		GAACTGATGATCGTTTACTCTAAGGCAGCTAAGGAGACAGTACGTAAGCACTTGGATCTC[GA]CCAGGATGGAATTGG AATGTATCCTCAAGAGACAGCAGCAAGAAGTCGAAGAGTCCCGCA		
84712 I		S	AGGGGTTGGTGGTGTTTGCAGGTAGA		
84712 P	G	S	ATGACGTGGCAGACCGACAGAAGGAAGAAAACAY		
84712 P	A	S	CGCGCCGAGGTGACAGAAGGAAGAAAACATTY		
84712 T	G	S	TGATAATGTTTTCTTCCTTCTGTCGCTACCTGCAAAACACCACCAACCCCTAA		
84712 T	A	S	TGATAATGTTTTCTTCCTTCTGTCACTACCTGCAAAACACCACCAACCCCTAA		
84712 IS	[GA]		TCAAAATATGGTTTGTCCTTTATCTGAATTCCCTCCTGATAATGTTTTCTTCCTTCTGTC[GA]CTACCTGCAAAACACCA CCAACCCCTAATTCTCAAGAGTCATTTGTCAAGTCAGTACTTA		
84717 I		S	TCAGAGGTTACAGACAAGATGTCGGCGGATGGA		

FIGURE 129D

84717 P	A	S	CGCGCCGAGGTAGCTTCGAGCCCTTGY
84717 P	G	S	ATGACGTGGCAGACCAGCTTCGAGCCCTY
84717 T	A	S	TCCGCAAGGGCTCGAAGCTACCATCCGCCGACATCTTGTCTGTAACCTCTGACC
84717 T	G	S	TCCGCAAGGGCTCGAAGCTGCCATCCGCCGACATCTTGTCTGTAACCTCTGACC
84717 IS	[AG]		GAAGCCGCCGTCGACAAGCTTCTGTCACAGAGATGCTCCTCTCCGCAAGGGCTCGAAGCT[AG]CCATCCGCCGACAT CTTGTCTGTAACCTCTGACCTCCGACGTCAGCGGAAGTGGAACGGC
84725 I		A	CCAGCACCAGGGAGGGGCACAGT
84725 P	G	A	ATGACGTGGCAGACGATCCTTTAAGAGGGGCY
84725 P	A	A	CGCGCCGAGGAATCCTTTAAGAGGGGCY
84725 T	G	A	GCCCGCCCCTCTTAAAGGATCCTGTGCCCCTCCCTGGTGCTGGGA
84725 T	A	A	GCCCGCCCCTCTTAAAGGATTCTGTGCCCCTCCCTGGTGCTGGGA
84725 IS	[GA]		GCACCCTGCACTTCCCGGTCCACGCCCCACCCGCCATCCCAGCACCAGGGAGGGGCACAG[GA]ATCCTTTAAGAGG GGCGGGCGTGGCTGACCCAAGGAAGCCGGTGTGGGAACACCTGCCAC
84728 I		A	ACCCCGGGCGAGCAGCCAT
84728 P	G	A	ATGACGTGGCAGACGAGGCTGGATCTCAGGY
84728 P	C	A	CGCGCCGAGGCAGGCTGGATCTCAGGY
84728 T	G	A	CATCCCTGAGATCCAGCCTCTGGCTGCTCGCCCGGGGTGG
84728 T	C	A	CATCCCTGAGATCCAGCCTGTGGCTGCTCGCCCGGGGTGG
84728 IS	[GC]		GCTCCCTCCGCCCCGCGCCATCGCGCTCGGAGTGACGGGCCCACCCCGGGCGAGCAGCCA[GC]AGGCTGGATCTC AGGGATGCCAGCTCCCCAGCGGAAGCACAGGCGTGGAGGCTTCTCTCA
84742 I		A	CATCCTGCACCGCGACCTGAAGCTA
84742 P	C	A	ATGACGTGGCAGACCAGTGAGTGCCAGGAY
84742 P	T	A	CGCGCCGAGGTAGTGAGTGCCAGGAAGY
84742 T	C	A	TCCCCTTCCTGGCACTCACTGAGCTTCAGGTCGCGGTGCAGGATGCA
84742 T	T	A	TCCCCTTCCTGGCACTCACTAAGCTTCAGGTCGCGGTGCAGGATGCA
84742 IS	[CT]		CCTGGTCAGCGGCCTGCGCTACCTGCACCAGCGGTGCATCCTGCACCGCGACCTGAAGCT[CT]AGTGAGTGCCAGG AAGGGGAACTGTGGGCGGGGGCGTCGGGAGGTGGGCACGGATCCACC
84774 I		A	ACCACATATGGCAGAACGGGACAGAGATTAAAT
84774 P	A	A	CGCGCCGAGGAAGGCTAAATAGGTTTGCTTY
84774 P	G	A	ATGACGTGGCAGACGAGGCTAAATAGGTTTGCTY
84774 T	A	A	GGGTAAGCAAACCTATTTAGCCTTTTTAATCTCTGTCCCGTTCTGCCATATGTGGTCT
84774 T	G	A	GGGTAAGCAAACCTATTTAGCCTCTTTAATCTCTGTCCCGTTCTGCCATATGTGGTCT
84774 IS	[AG]		AAAAATATCAGTGCAAAGATTGTATTAGACCACATATGGCAGAACGGGACAGAGATTAAA[AG]AGGCTAAATAGGTTTG CTTACCCTTTTTGCCTTTGAGCGCATTGGCGTATCTTGAGAGTA
84783 I		S	TGTCTTCTCACAGAGTCTTGAAGCCAGAGCAGCT
84783 P	C	S	ATGACGTGGCAGACGCCAGGATGTCACGGY
84783 P	T	S	CGCGCCGAGGACCAGGATGTCACGGY
84783 T	C	S	GCTCCCGTGACATCCTGGCGCTGCTCTGGCTTCAAGACTCTGTGAGAAGACAGC
84783 T	T	S	GCTCCCGTGACATCCTGGTGCTGCTCTGGCTTCAAGACTCTGTGAGAAGACAGC
84783 IS	[CT]		GGGCGCTGTGGATGGAGAGGAGGAGAAGCAGCAGTGGGGCCAGCTCCCGTGACATCCTGG[CT]GCTGCTCTGGCTT CAAGACTCTGTGAGAAGACAGCAGTGCTTGGAGTGCTGGATTCTGGC
84787 I		S	CAGGGAGCTGGTTGATTGGGTCTCAACCCA
84787 P	A	S	CGCGCCGAGGTTGATGACTGACCATATCCTY
84787 P	G	S	ATGACGTGGCAGACCTGATGACTGACCATATCCY
84787 T	A	S	AATTAGGATATGGTCAGTCATCAAGGGTTGAGACCCAATCAACCAGCTCCCTGAC
84787 T	G	S	AATTAGGATATGGTCAGTCATCAGGGGTTGAGACCCAATCAACCAGCTCCCTGAC
84787 IS	[AG]		CACTGTCCGTGGTCTGAGCAGCCACAGGCTGTAAACAAATTAGGATATGGTCAGTCATCA[AG]GGGTTGAGACCCAAT CAACCAGCTCCCTGACCCCTTGTTTGCTATGCATTTTCAGTTGTG
84791 I		S	GTATACTAATATAGCTTTGTCCTAAAACTTGGAAGCCATACCAT
84791 P	T	S	CGCGCCGAGGAAAATCCTTGATTCAGATTCCTY
84791 P	G	S	ATGACGTGGCAGACCAAATCCTTGATTCAGATTCCY
84791 T	T	S	AGAAAGGAATCTGAATCAAGGATTTTTGGTATGGCTTCCAAGTTTTAGGACAAAGCTATATTAGTATACCA
84791 T	G	S	AGAAAGGAATCTGAATCAAGGATTTGTGGTATGGCTTCCAAGTTTTAGGACAAAGCTATATTAGTATACCA
84791 IS	[TG]		AAGATTTTTTTTTGTACCTGTTTCCTGTCTATTTTAGAAAGGAATCTGAATCAAGGATTTT[TG]TGGTATGGCTTCCAAGT TTTAGGACAAAGCTATATTAGTATACCAATTTAGTAGCTTATT
84792 I		S	CTCCTGAGACTACACCTGCTTTTAATTTGGTGTCAGTAGGAAT
84792 P	G	S	ATGACGTGGCAGACCGATGGTATACACATTTTACAAAAY
84792 P	T	S	CGCGCCGAGGAGATGGTATACACATTTTACAAAAGY
84792 T	G	S	ATGACTTTTGTAAAATGTGTATACCATCGTTCCTACTGACACCAAATTAAAAGCAGGTGTAGTCTCAGGAGCT
84792 T	T	S	ATGACTTTTGTAAAATGTGTATACCATCTTTCCTACTGACACCAAATTAAAAGCAGGTGTAGTCTCAGGAGCT
84792 IS	[GT]		AACAATTGATAATTTTTTCTTAACATTAAAAAATGACTTTTGTAAAATGTGTATACCAT[GT][TT]CCTACTGACACCAAAT TAAAAGCAGGTGTAGTCTCAGGAGCTCTTTCTGTTCACAGGC
84806 I		S	CACAGCCTTGCAGGCCAGGCCTTA
84806 P	G	S	ATGACGTGGCAGACCTCTATTAACAATTACAAGCGCY
84806 P	A	S	CGCGCCGAGGTTCTATTAACAATTACAAGCGCY
84806 T	G	S	CCTCGCGCTTGTAATTGTTAATAGAGAAGGCCTGGCCTGCAAGGCTGTGTC
84806 T	A	S	CCTCGCGCTTGTAATTGTTAATAGAAAAGGCCTGGCCTGCAAGGCTGTGTC
84806 IS	[GA]		CCCCGTCCGCCCCACCCAGTTCTCAACTCTCTGCTCCTCGCGCTTGTAATTGTTAATAGA[GA]AAGGCCTGGCCTGCA AGGCTGTGTCGTAGGGTCCCGGCCAGGCTGAAAGGGAGGGGTGGG
84851 I		A	CATTCAGGCAGCTCCCCAACACCCTGA
84851 P	C	A	ATGACGTGGCAGACCACACAATGCCCAGACY
84851 P	T	A	CGCGCCGAGGTACACAATGCCCAGACCY
84851 T	C	A	AGTGGGTCTGGGCATTGTGTGCAGGGTGTTGGGGAGCTGCCTGAATGCT
84851 T	T	A	AGTGGGTCTGGGCATTGTGTACAGGGTGTTGGGGAGCTGCCTGAATGCT
84851 IS	[CT]		ACTGGCTCTGAGGGTTGAACTTGGTTCCTTTCAGCATTCAGGCAGCTCCCCAACACCCTG[CT]ACACAATGCCCAGAC CCACTGGACCAGACAGACAGAGCCCGCCTCCAACAAGGGCACCCA
84853 I		A	AGCAGTGGATGGGAAGTGGTAAACAGGCCT
84853 P	G	A	ATGACGTGGCAGACGGAGCCAGCAGTAGAY
84853 P	A	A	CGCGCCGAGGAGAGCCAGCAGTAGACY
84853 T	G	A	GCAGGTCTACTGCTGGCTCCGGCCTGTTTACCACTTCCCATCCACTGCTCT
84853 T	A	A	GCAGGTCTACTGCTGGCTCTGGCCTGTTTACCACTTCCCATCCACTGCTCT
84853 IS	[GA]		AAATTTGAGATGCAGGTAATCCCCACATTAGAGCAGTGGATGGGAAGTGGTAAACAGGCC[GA]GAGCCAGCAGTAGA CCTGCGGCCTTGGCTGAGTCCTGGCTAATAAATACCCTGGTGTCTG
84866 I		S	CTGATTCACCTCCCCTCCTCCCTACACT
84866 P	T	S	CGCGCCGAGGAGATCATTACAGGGGACCY
84866 P	C	S	ATGACGTGGCAGACGGATCATTACAGGGGACCY
84866 T	T	S	GAGAGGTCCCCTGTAATGATCTGTGTAGGGAGGAGGGGAGGTGAATCAGAA
84866 T	C	S	GAGAGGTCCCCTGTAATGATCCGTGTAGGGAGGAGGGGAGGTGAATCAGAA
84866 IS	[TC]		GAGACAATGACCTACGGTGAATGAAGCTCAACACCCAAAGAGAGGTCCCCTGTAATGATC[TC]GTGTAGGGAGGAGG GGAGGTGAATCAGAAAACAAATTCCACGCTCCTGGAAACCCCAGAG
84871 I		S	GGAAGGTGAATGGGTGGGGGGCTAATCTCA
84871 P	A	S	CGCGCCGAGGTTTGGTCAACATTTGCTTTCY
84871 P	G	S	ATGACGTGGCAGACCTTGGTCAACATTTGCTTTCY
84871 T	A	S	AATAGAAAGCAAATGTTGACCAAAGAGATTAGCCCCCCACCCATTCACCTTCCCC
84871 T	G	S	AATAGAAAGCAAATGTTGACCAAGGAGATTAGCCCCCCACCCATTCACCTTCCCC

FIGURE 129D

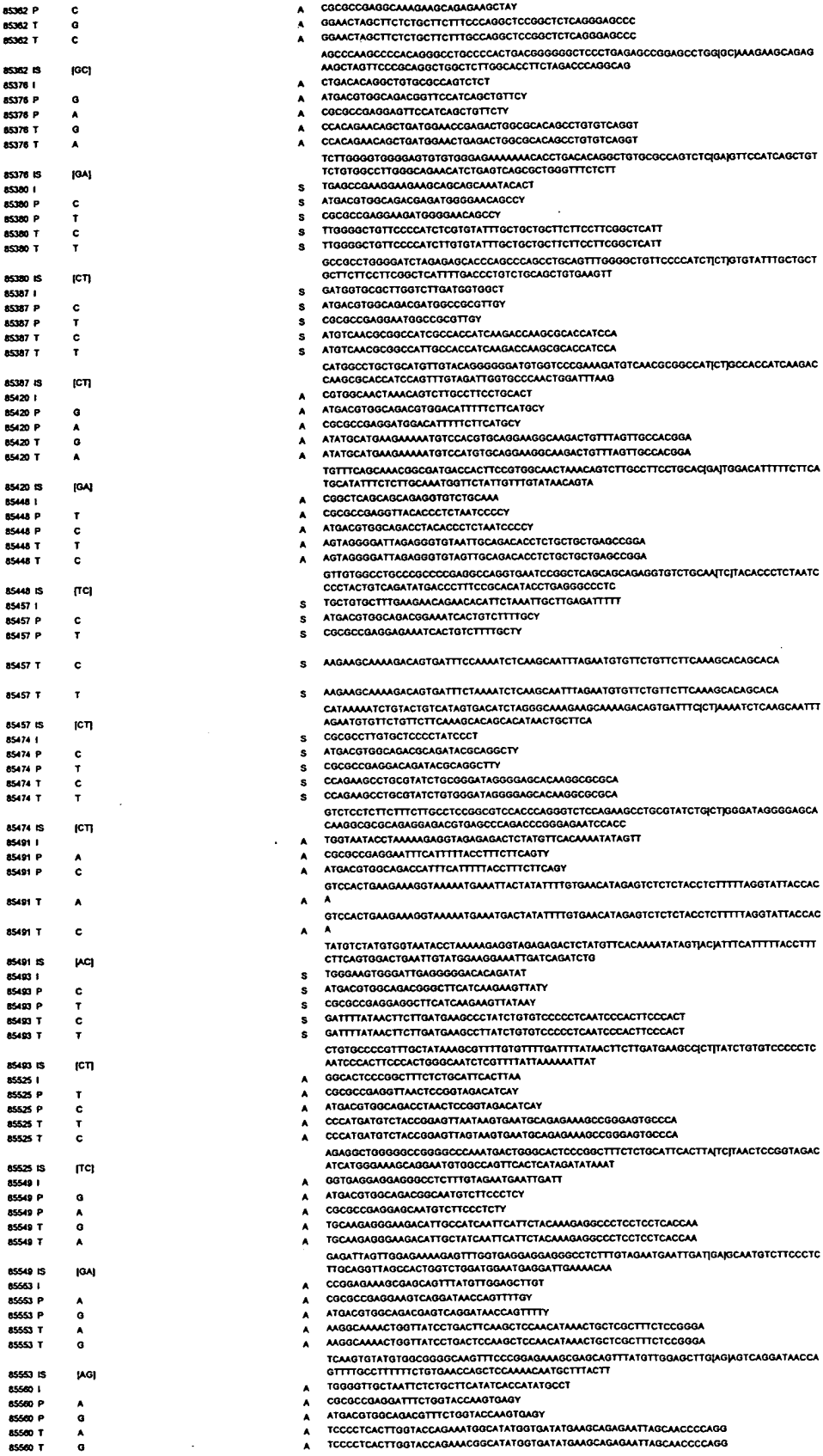


			ACAGCCGATCCAAGTTTATTTAACCACCTAAAATTCAAATAGAAAGCAAATGTTGACCAA[AG]GAGATTAGCCCCCCAC
84871 IS	[AG]		CCATTCACCTTCCCCCAGAGTTTGTTATGAAATTAGGTCATGAT
84874 I		S	GGAGAGAGGAGGACATGGGGCTGCTT
84874 P	C	S	ATGACGTGGCAGACGTTGTGAAGAAGGAATTTGTACY
84874 P	T	S	CGCGCCGAGGATTGTGAAGAAGGAATTTGTACY
84874 T	C	S	ACTTGTACAAATTCCTTCTTCACAACAGCAGCCCCATGTCCTCCTCTCTCCCA
84874 T	T	S	ACTTGTACAAATTCCTTCTTCACAATAGCAGCCCCATGTCCTCCTCTCTCCCA
			TTTATTAGAATATAAAAGTTACAGAAAATGGACTAACTTGTACAAATTCCTTCTTCACAA[CT]AGCAGCCCCATGTCCTC
84874 IS	[CT]		CTCTCTCCCATAGACACAGTTTCATAGTTTCTATTCACTCACA
84897 I		A	CACTCTCTCTCCCATATCTTCTGCTTCTTCCCTTACCCA
84897 P	C	A	ATGACGTGGCAGACCCAAGCTCCATACCCTY
84897 P	T	A	CGCGCCGAGGTCAAGCTCCATACCCTCY
84897 T	C	A	TTAGGAGGGTATGGAGCTTGGGGGTAAGGGAAGAAGCAGAAGATATGGGAGAGAGAGTGGG
84897 T	T	A	TTAGGAGGGTATGGAGCTTGAGGGTAAGGGAAGAAGCAGAAGATATGGGAGAGAGAGTGGG
			CTGATCCTCCTTTCCCTGTCCCCACTCTCTCTCCCATATCTTCTGCTTCTTCCCTTACCC[CT]CAAGCTCCATACCCTC
84897 IS	[CT]		CTAATGCCCACACCTCTTACCTTAGGAAAGGCATCCCAGTTGAG
84903 I		S	TGAAAACAAACTGGGTTTGTACAAGTGAGAAAGACTAGAT
84903 P	C	S	ATGACGTGGCAGACGAGAAAGATTTTAGTCTGTTTAGCY
84903 P	T	S	CGCGCCGAGGAAGAAAGATTTTAGTCTGTTTAGCY
84903 T	C	S	TTCTGCTAAACAGACTAAAATCTTTCTCTCTAGTCTTTCTCACTTGTACAAACCCAGTTTGTTTTCAAA
84903 T	T	S	TTCTGCTAAACAGACTAAAATCTTTCTTTCTAGTCTTTCTCACTTGTACAAACCCAGTTTGTTTTCAAA
			AATATTGATCCATGTGCACGCAGATAAAATGGCTTCTGCTAAACAGACTAAAATCTTTCT[CT]TCTAGTCTTTCTCACTT
84903 IS	[CT]		GTACAAACCCAGTTTGTTTTCAAAAAATCACAGTAGCAATGCA
84922 I		S	TGTGCCTCGACTCCCACCACACACACT
84922 P	C	S	ATGACGTGGCAGACGGCATGGGTAGGCAY
84922 P	T	S	CGCGCCGAGGAGCATGGGTAGGCATY
84922 T	C	S	GAAGATGCCTACCCATGCCGTGTGTGTGGTGGGAGTCGAGGCACATG
84922 T	T	S	GAAGATGCCTACCCATGCTGTGTGTGTGGTGGGAGTCGAGGCACATG
			AGGTGACAGGATGGCCCCAAAGAGAGTTGTGCAGCTGTCCCTGAAGATGCCTACCCATGC[CT]GTGTGTGTGGTGGG
84922 IS	[CT]		AGTCGAGGCACATGTGGACATTCACAGGTAAGAGCTGGGAGGCGCT
84930 I		S	CCCCACCCTGGCCTGGGGGT
84930 P	T	S	CGCGCCGAGGACCTCAACCTACCGAGY
84930 P	C	S	ATGACGTGGCAGACGCCTCAACCTACCGAY
84930 T	T	S	AGAGCTCGGTAGGTTGAGGTCCCCCAGGCCAGGGTGGGGCT
84930 T	C	S	AGAGCTCGGTAGGTTGAGGCCCCCCAGGCCAGGGTGGGGCT
			CCTGGGCCGGCTTTGGGATTCCATCTAGAGCTCCCTCGGCTAGAGCTCGGTAGGTTGAGG[TC]CCCCCAGGCCAGG
84930 IS	[TC]		GTGGGGCTGCCATACTAGCTTCTGCCCTGTCACCCCACTCCTATGTC
84942 I		A	CTTACCCTTGGTTTGCCTGAAGAAAGCTGCTGTTTTTAATTTTC
84942 P	T	A	CGCGCCGAGGTTTTCCTCCAAGCAAGCY
84942 P	A	A	ATGACGTGGCAGACATTTCCTCCAAGCAAGCY
84942 T	T	A	TTGGGCTTGCTTGGAGGAAAAAAAATTAAAAACAGCAGCTTTCTTCAGGCAAACCAAGGGTAAGTA
84942 T	A	A	TTGGGCTTGCTTGGAGGAAATAAAATTAAAAACAGCAGCTTTCTTCAGGCAAACCAAGGGTAAGTA
			TGGCTCAGGGATGTTTACTTACCCTTGGTTTGCCTGAAGAAAGCTGCTGTTTTTAATTTT[TA]TTTCCTCCAAGCAAGC
84942 IS	[TA]		CCAAAACTTCCATGAGCAAAAGAGTCCAAAGAGGCAAGAGGACA
84964 I		A	TGGGTTTTCAGGATGCCTGAGTACATGGATCCTCTAAT
84964 P	C	A	CGCGCCGAGGCACATATCCCTTCATTATCTCTAY
84964 P	G	A	ATGACGTGGCAGACGACATATCCCTTCATTATCTCTACY
84964 T	C	A	TTCAGTAGAGATAATGAAGGGATATGTGTTAGAGGATCCATGTACTCAGGCATCCTGAAAACCCAGG
84964 T	G	A	TTCAGTAGAGATAATGAAGGGATATGTCTTAGAGGATCCATGTACTCAGGCATCCTGAAAACCCAGG
			TCAGAGCCGTGGGATTTCAAACCTGGGTTTTCAGGATGCCTGAGTACATGGATCCTCTAA[CG]ACATATCCCTTCATT
84964 IS	[CG]		ATCTCTACTGAATGTAGCTGATGTTAGGGGAAGTTCTGTGCTGGA
84969 I		S	CGAGCTGATGGCTCACCTGATGTACATGCATGT
84969 P	G	S	ATGACGTGGCAGACCCATCTACAGCAGCATCY
84969 P	T	S	CGCGCCGAGGACATCTACAGCAGCATCY
84969 T	G	S	GGGGGATGCTGCTGTAGATGGCATGCATGTACATCAGGTGAGCCATCAGCTCGGC
84969 T	T	S	GGGGGATGCTGCTGTAGATGTCATGCATGTACATCAGGTGAGCCATCAGCTCGGC
			CCACAATTACCTAAGGTCCAACAAGAGACAGTCTCCAGGAGGGGGATGCTGCTGTAGATG[GT]CATGCATGTACATCA
84969 IS	[GT]		GGTGAGCCATCAGCTCGGCCAGCCACCACCAGCAAAGAAGGCGGC
85026 I		A	CCACAGGAATCCTACTGACGTGGCTGTGTTTACGA
85026 P	C	A	ATGACGTGGCAGACCGCCTCCTCCCCY
85026 P	T	A	CGCGCCGAGGTGCCTCCTCCCCAY
85026 T	C	A	GCTTTGGGGAGGAGGCGCGTAAACACAGCCACGTCAGTAGGATTCCTGTGGCC
85026 T	T	A	GCTTTGGGGAGGAGGCACGTAAACACAGCCACGTCAGTAGGATTCCTGTGGCC
			AGAACAGTGTGTTAGCTTGGAAAGGGCCACAGGAATCCTACTGACGTGGCTGTGTTTACG[CT]GCCTCCTCCCCAAA
85026 IS	[CT]		GCCCTCTCTGTTCTCACACATGGCCTGGTCTGTCCCAAAGGCCTCA
85046 I		A	TGGTAGGGTATATCCATGGATGAATGTTCATCACACCCAT
85046 P	G	A	ATGACGTGGCAGACGTCTAATTCATACCAGGTGGY
85046 P	A	A	CGCGCCGAGGATCTAATTCATACCAGGTGGY
85046 T	G	A	CCTGCCACCTGGTATGAATTAGACTGGGTGTGATGAACATTCATCCATGGATATACCCTACCATT
85046 T	A	A	CCTGCCACCTGGTATGAATTAGATTGGGTGTGATGAACATTCATCCATGGATATACCCTACCATT
			TGGTTATAAGGCAACGCAAAATGGTAGGGTATATCCATGGATGAATGTTCATCACACCCA[GA]TCTAATTCATACCAGG
85046 IS	[GA]		TGGCAGGCTCAGCAAACTGAACCACCACAGGTGTCAGAGATACT
85056 I		S	GCCGCCCGAACATACGACCTTCCCAGT
85056 P	G	S	ATGACGTGGCAGACCCCTCATGACCCCCY
85056 P	T	S	CGCGCCGAGGACCTCATGACCCCCY
85056 T	G	S	TGCTGGGGGTCATGAGGGCTGGGAAGGTCGTATGTTCGGGCGGCTG
85056 T	T	S	TGCTGGGGGTCATGAGGTCTGGGAAGGTCGTATGTTCGGGCGGCTG
			CCCCCGTCCTCACCATCCAATGGGGACACTGTGGAGCTCCAAGTGCTGGGGGTCATGAGG[GT]CTGGGAAGGTCGT
85056 IS	[GT]		ATGTTCGGGCGGCTGGTCCCTTCTCTGGCTGGGCCTCCAGCAGTGGC
85063 I		S	GCTGCGGAAAGAGATCCAGCCTGGCTA
85063 P	G	S	ATGACGTGGCAGACCCCTCCTTTCCCCGY
85063 P	A	S	CGCGCCGAGGTCCTCCTTTCCCCGY
85063 T	G	S	AGGGCGGGGAAAGGAGGGAGCCAGGCTGGATCTCTTTCCGCAGCTC
85063 T	A	S	AGGGCGGGGAAAGGAGGAAGCCAGGCTGGATCTCTTTCCGCAGCTC
			TGGGCAATACAGTTTTGTGCTCACTGGGTGAAGAGGCTGACTTAGGGCGGGGAAAGGAGG[GA]AGCCAGGCTGGAT
85063 IS	[GA]		CTCTTTCCGCAGCTCTCCTCACGTTCCCCTCTAGTCCCGGCGCGGCG
85074 I		S	AGAGACACCAACCCTGCCCCCCTTT
85074 P	G	S	CGCGCCGAGGCTACTGGTATTTGAAAAAAGAACTY
85074 P	C	S	ATGACGTGGCAGACGTACTGGTATTTGAAAAAAGAACTY
85074 T	G	S	GGAGAGTTCTTTTTTCAAATACCAGTAGAAGGGGGGCAGGGTTGGTGTCTCTGA
85074 T	C	S	GGAGAGTTCTTTTTTCAAATACCAGTACAAGGGGGGCAGGGTTGGTGTCTCTGA
			TTCCCAGGGATGGTGGAGGGAAGTGGATAGCAGGGAGAGTTCTTTTTTCAAATACCAGTA[GC]AAGGGGGGCAGGGT
85074 IS	[GC]		TGGTGTCTCTGAAGAGATGACAGACAACTTTGTTTTATAGAGTCTT
85086 I		S	AAAGTATATTAGCACATTTCCTCCTTTTTAATGCAAAGATCATAATCCAAATAA
85086 P	A	S	CGCGCCGAGGTGAGAGAACAAGTATAGGGAAY

FIGURE 129D

85086	P	G	S	ATGACGTGGCAGACCGAGAGAACAAGTATAGGGAY
85086	T	A	S	TATATTCCCTATACTTGTTCTCTCATATTTGGATTATGATCTTTGCATTAAAAAGGAGGAAATGTGCTAATATACTTTTA
85086	T	G	S	TATATTCCCTATACTTGTTCTCTCGTATTTGGATTATGATCTTTGCATTAAAAAGGAGGAAATGTGCTAATATACTTTTA
85086	IS	[AG]		CAGAAGTAGCAATAACTATTCTATAACCGTAAAATTTATATTCCCTATACTTGTTCTCT[AG]TATTTGGATTATGATCTT TGCATTAAAAAGGAGGAAATGTGCTAATATACTTTTATACTA
85091	I		S	CGCCAGGTGAAGGGAGACCTGGCA
85091	P	G	S	ATGACGTGGCAGACCTTCCTCAACTTCCAGAACY
85091	P	A	S	CGCGCCGAGGTTTCCTCAACTTCCAGAACY
85091	T	G	S	GGTTGTTCTGGAAGTTGAGGAAGGCCAGGTCTCCCTTCACCTGGCGGA
85091	T	A	S	GGTTGTTCTGGAAGTTGAGGAAAGCCAGGTCTCCCTTCACCTGGCGGA
85091	IS	[GA]		GAGAGAACCCGGGCCAGGCAAGCGGCGCACCTGCTGCAGGTTGTTCTGGAAGTTGAGGAA[GA]GCCAGGTCTCCCT TCACCTGGCGGATCACTTCCATGGTCAGTGCCTTTTCTTCATGGATG
85127	I		S	CAGTACTCCTCGCCCTAACCCGGCTT
85127	P	G	S	CGCGCCGAGGCGAACCTTCAGACAGACY
85127	P	C	S	ATGACGTGGCAGACGGAACCTTCAGACAGACY
85127	T	G	S	CGGGGTCTGTCTGAAGGTTCGAGCCGGGTTAGGGCGAGGAGTACTGCC
85127	T	C	S	CGGGGTCTGTCTGAAGGTTCCAGCCGGGTTAGGGCGAGGAGTACTGCC
85127	IS	[GC]		GGTTCCGCCGCGCCGGGCTGGGGAGCGGGGCTCCATCCGCCGGGGTCTGTCTGAAGGTTC[GC]AGCCGGGTTAGG GCGAGGAGTACTGCCCTGGAGTAGAGTCTGGGCTGAGGGTGTAGTTGA
85155	I		A	CATATTTGTGGTGGTCTCTGATCAGGCTTCCTCCTT
85155	P	A	A	CGCGCCGAGGATAAGTGGAGAACAGCACY
85155	P	G	A	ATGACGTGGCAGACGTAAGTGGAGAACAGCACY
85155	T	A	A	ACACGTGCTGTTCTCCACTTATAGGAGGAAGCCTGATCAGAGACCACCACAAATATGCC
85155	T	G	A	ACACGTGCTGTTCTCCACTTACAGGAGGAAGCCTGATCAGAGACCACCACAAATATGCC
85155	IS	[AG]		CCACTTGGGGCAGAAGAGGCCCTGGCATATTTGTGGTGGTCTCTGATCAGGCTTCCTCCT[AG]TAAGTGGAGAACAG CACGTGTAATTGGGCTCCACATGAAAATGTGACCTCTGGTTTGCAT
85220	I		S	CTTCTCTTTCTTGTCCCAAGTCATTCATTACTTAATTTTAGTCATGAAAT
85220	P	T	S	CGCGCCGAGGATGGGAGACCCCCAY
85220	P	C	S	ATGACGTGGCAGACGTGGGAGACCCCCY
85220	T	T	S	TCACTGGGGGTCTCCCATTTTCATGACTAAAATTAAGTAATGAATGACTTGGGACAAGAAAGAGAAGTG
85220	T	C	S	TCACTGGGGGTCTCCCACTTTCATGACTAAAATTAAGTAATGAATGACTTGGGACAAGAAAGAGAAGTG
85220	IS	[TC]		GAGAAACCGTCATTGCAGGACATGATTGAGGGAAAACCCCCATTCACTGGGGGTCTCCCA[TC]TTTCATGACTAAAAT TAAGTAATGAATGACTTGGGACAAGAAAGAGAAGTGGATTAAATA
85227	I		S	TGTGCAATTGGTTTAAATTTCCCCTGTGTGCTATGTCTCTC
85227	P	A	S	CGCGCCGAGGTGGGAGTCCAAGTCTGY
85227	P	T	S	ATGACGTGGCAGACAGGGAGTCCAAGTCTGY
85227	T	A	S	CCAGCAGACTTGGACTCCCAAGAGACATAGCACACAGGGGAAATTTAAACCAATTGCACAGT
85227	T	T	S	CCAGCAGACTTGGACTCCCTAGAGACATAGCACACAGGGGAAATTTAAACCAATTGCACAGT
85227	IS	[AT]		CTGATGGTGAAGGTGGAAGTATTCCCCTTCCTGTATCCTGACCAGCAGACTTGGACTCCC[AT]AGAGACATAGCACAC AGGGGAAATTTAAACCAATTGCACAGTCTTTATTTCTGTCTTTAT
85243	I		S	GGTAGCATAAGGGGCAGACTAAGGAATGACGT
85243	P	C	S	ATGACGTGGCAGACGCATGGGAGGTGGCY
85243	P	T	S	CGCGCCGAGGACATGGGAGGTGGCY
85243	T	C	S	GGCAGCCACCTCCCATGCCGTCATTCCTTAGTCTGCCCCTTATGCTACCAT
85243	T	T	S	GGCAGCCACCTCCCATGTCGTCATTCCTTAGTCTGCCCCTTATGCTACCAT
85243	IS	[CT]		ATTATCAAAAAACTAAGGCAGTTCATCAAAGCTTTTTATTTCTGGCAGCCACCTCCCATG[CT]CGTCATTCCTTAGTCTG CCCCTTATGCTACCATATGTTAAAGAGCGTGGTACTCCCCAAT
85261	I		A	GGCAAGTTTCCCGTGCAGTTAGAGAATGTTGACTCT
85261	P	A	A	CGCGCCGAGGATTTGTGGAGCTGGGAY
85261	P	G	A	ATGACGTGGCAGACGTTTGTGGAGCTGGGY
85261	T	A	A	CCTGTCCCAGCTCCACAAATGAGTCAACATTCTCTAACTGCACGGGAAACTTGCCCT
85261	T	G	A	CCTGTCCCAGCTCCACAAACGAGTCAACATTCTCTAACTGCACGGGAAACTTGCCCT
85261	IS	[AG]		GAGGATGGTCTACGATATGGAGAAGGGCAAGTTTCCCGTGCAGTTAGAGAATGTTGACTC[AG]TTTGTGGAGCTGGG ACAGGTATGTGGCATGTCCCCCAGCCCCTTCCTTTTTAATTAAATC
85284	I		S	ACGGAATGAAATGGATGATGACTTTTCACTTTTAATTCTATGAAGTTA
85284	P	G	S	ATGACGTGGCAGACCGATTTTTGAAATCTATACCAAGTY
85284	P	A	S	CGCGCCGAGGTGATTTTTGAAATCTATACCAAGTATTY
85284	T	G	S	ATATAATACTTGGTATAGATTTCAAAAATCGAACTTCATAGAATTAAAAGTGAAAAGTCATCATCCATTTCATTCCGTTT
85284	T	A	S	ATATAATACTTGGTATAGATTTCAAAAATCAAACTTCATAGAATTAAAAGTGAAAAGTCATCATCCATTTCATTCCGTTT
85284	IS	[GA]		GGTCATTATTTTTAAACTTTTCAAATTAGAATATAATACTTGGTATAGATTTCAAAAATC[GA]AACTTCATAGAATTAAAA GTGAAAAGTCATCATCCATTTCATTCCGTTTCTTGATTTTTT
85285	I		A	GGGAGCACTTATTTCAAGGACATTACCACATAGAATTTGAATGCATCTATTA
85285	P	T	A	CGCGCCGAGGTAGTGGAAAAATTTTTGGCAAY
85285	P	C	A	ATGACGTGGCAGACCAGTGGAAAAATTTTTGGCAY
85285	T	T	A	TTTTTTGCCAAAAATTTTTCCACTAAATAGATGCATTCAAATTCTATGTGGTAATGTCCTTGAAATAAGTGCTCCCGT
85285	T	C	A	TTTTTTGCCAAAAATTTTTCCACTGAATAGATGCATTCAAATTCTATGTGGTAATGTCCTTGAAATAAGTGCTCCCGT
85285	IS	[TC]		GAGCCTTACGGGAGCACTTATTTCAAGGACATTACCACATAGAATTTGAATGCATCTATT[TC]AGTGGAAAAATTTTTG GCAAAAAATTTTTAAAAATTATTAGAATAAAAGAAGAAATATTT
85288	I		S	CATGGGAAGTGGCATCCTTGGCTTAGCTTATGTTC
85288	P	T	S	CGCGCCGAGGATGGCTAATACCGGTGTY
85288	P	A	S	ATGACGTGGCAGACTTGGCTAATACCGGTGTY
85288	T	T	S	AAAGACACCGGTATTAGCCATAACATAAGCTAAGCCAAGGATGCCACTTCCCATGAT
85288	T	A	S	AAAGACACCGGTATTAGCCAAAACATAAGCTAAGCCAAGGATGCCACTTCCCATGAT
85288	IS	[TA]		AAAAAATTTGATGCTAAAATATGAAGACTCACCTAAATCCAAAGACACCGGTATTAGCCA[TA]AACATAAGCTAAGCCAA GGATGCCACTTCCCATGATGGCATTCATCAAATTAAACACTGA
85341	I		S	TGTGGGCTGGAAACTCCATAACAGGCACTTGC
85341	P	A	S	CGCGCCGAGGTGCCTCCTCCGAGGY
85341	P	T	S	ATGACGTGGCAGACAGCCTCCTCCGAGGY
85341	T	A	S	CAGACCTCGGAGGAGGCACAAGTGCCTGTTATGGAGTTTCCAGCCCACAGC
85341	T	T	S	CAGACCTCGGAGGAGGCTCAAGTGCCTGTTATGGAGTTTCCAGCCCACAGC
85341	IS	[AT]		TCACTGCACAGTTCCCTGGCTGTGAAATGAGGTGGGTTTGGTGCAGACCTCGGAGGAGGC[AT]CAAGTGCCTGTTAT GGAGTTTCCAGCCCACAGCGCAGGGCCTGGCTGGTGGGAAAGAGCG
85358	I		S	CGAGGGTCCTGGCGATGGAGCCT
85358	P	C	S	ATGACGTGGCAGACGTAGCTTTCATCTTGCTGAY
85358	P	T	S	CGCGCCGAGGATAGCTTTCATCTTGCTGATY
85358	T	C	S	AGGGATCAGCAAGATGAAAGCTACGGCTCCATCGCCAGGACCCTCGGG
85358	T	T	S	AGGGATCAGCAAGATGAAAGCTATGGCTCCATCGCCAGGACCCTCGGG
85358	IS	[CT]		AGCTTAAGCTGAGGGTGATGCTGGGGGCTGTGTTGACAGGGATCAGCAAGATGAAAGCTA[CT]GGCTCCATCGCCAG GACCCTCGGGGGTGTCTTGTTTGGAAGCATCCCTGCTGGCCTCTGG
85362	I		A	GCTCCCTGAGAGCCGGAGCCTGGT
85362	P	G	A	ATGACGTGGCAGACGAAAGAAGCAGAGAAGCTAGY

FIGURE 129D


85362 P C A CGCGCCGAGGCAAAGAAGCAGAGAAGCTAY
85362 T G A GGAACTAGCTTCTCTGCTTCTTTCCCAGGCTCCGGCTCTCAGGGAGCCC
85362 T C A GGAACTAGCTTCTCTGCTTCTTTGCCAGGCTCCGGCTCTCAGGGAGCCC
AGCCCAAGCCCCACAGGGCCTGCCCCACTGACGGGGGGCTCCCTGAGAGCCGGAGCCTGG[GC]AAAGAAGCAGAG
85362 IS [GC] AAGCTAGTTCCCGCAGGCTGGCTCTTGGCACCTTCTAGACCCAGGCAG
85376 I A CTGACACAGGCTGTGCGCCAGTCTCT
85376 P G A ATGACGTGGCAGACGGTTCCATCAGCTGTTCY
85376 P A A CGCGCCGAGGAGTTCCATCAGCTGTTCTY
85376 T G A CCACAGAACAGCTGATGGAACCGAGACTGGCGCACAGCCTGTGTCAGGT
85376 T A A CCACAGAACAGCTGATGGAACTGAGACTGGCGCACAGCCTGTGTCAGGT
TCTTGGGGTGGGGAGTGTGTGGGAGAAAAAAACACCTGACACAGGCTGTGCGCCAGTCT[G/A]GTTCCATCAGCTGT
85376 IS [GA] TCTGTGGCCTTGGGCAGAACATCTGAGTCAGCGCTGGGTTTCTCTT
85380 I S TGAGCCGAAGGAAGAAGCAGCAGCAAATACACT
85380 P C S ATGACGTGGCAGACGAGATGGGGAACAGCCY
85380 P T S CGCGCCGAGGAAGATGGGGAACAGCCY
85380 T C S TTGGGGCTGTTCCCCATCTCGTGTATTTGCTGCTGCTTCTTCCTTCGGCTCATT
85380 T T S TTGGGGCTGTTCCCCATCTTGTGTATTTGCTGCTGCTTCTTCCTTCGGCTCATT
GCCGCCTGGGGATCTAGAGAGCACCCAGCCCAGCCTGCAGTTTGGGGCTGTTCCCCATCT[C/T]GTGTATTTGCTGCT
85380 IS [CT] GCTTCTTCCTTCGGCTCATTTTGACCCTGTCTGCAGCTGTGAAGTT
85387 I S GATGGTGCGCTTGGTCTTGATGGTGGCT
85387 P C S ATGACGTGGCAGACGATGGCCGCGTTGY
85387 P T S CGCGCCGAGGAATGGCCGCGTTGY
85387 T C S ATGTCAACGCGGCCATCGCCACCATCAAGACCAAGCGCACCATCCA
85387 T T S ATGTCAACGCGGCCATTGCCACCATCAAGACCAAGCGCACCATCCA
CATGGCCTGCTGCATGTTGTACAGGGGGGATGTGGTCCCGAAAGATGTCAACGCGGCCAT[C/T]GCCACCATCAAGAC
85387 IS [CT] CAAGCGCACCATCCAGTTTGTAGATTGGTGCCCAACTGGATTTAAG
85420 I A CGTGGCAACTAAACAGTCTTGCCTTCCTGCACT
85420 P G A ATGACGTGGCAGACGTGGACATTTTTCTTCATGCY
85420 P A A CGCGCCGAGGATGGACATTTTTCTTCATGCY
85420 T G A ATATGCATGAAGAAAAATGTCCACGTGCAGGAAGGCAAGACTGTTTAGTTGCCACGGA
85420 T A A ATATGCATGAAGAAAAATGTCCATGTGCAGGAAGGCAAGACTGTTTAGTTGCCACGGA
TGTTTCAGCAAACGGCGATGACCACTTCCGTGGCAACTAAACAGTCTTGCCTTCCTGCAC[G/A]TGGACATTTTTCTTCA
85420 IS [GA] TGCATATTTCTCTTGCAAATGGTTCTATTGTTTGTATAACAGTA
85448 I A CGGCTCAGCAGCAGAGGTGTCTGCAAA
85448 P T A CGCGCCGAGGTTACACCCTCTAATCCCCY
85448 P C A ATGACGTGGCAGACCTACACCCTCTAATCCCCY
85448 T T A AGTAGGGGATTAGAGGGTGTAATTGCAGACACCTCTGCTGCTGAGCCGGA
85448 T C A AGTAGGGGATTAGAGGGTGTAGTTGCAGACACCTCTGCTGCTGAGCCGGA
GTTGTGGCCTGCCCGCCCCGAGGCCAGGTGAATCCGGCTCAGCAGCAGAGGTGTCTGCAA[T/C]TACACCCTCTAATC
85448 IS [TC] CCCTACTGTCAGATATGACCCTTTCCGCACATACCTGAGGGCCCTC
85457 I S TGCTGTGCTTTGAAGAACAGAACACATTCTAAATTGCTTGAGATTTTT
85457 P C S ATGACGTGGCAGACGGAAATCACTGTCTTTTGCY
85457 P T S CGCGCCGAGGAGAAATCACTGTCTTTTGCTY
85457 T C S AAGAAGCAAAAGACAGTGATTTCCAAAATCTCAAGCAATTTAGAATGTGTTCTGTTCTTCAAAGCACAGCACA
85457 T T S AAGAAGCAAAAGACAGTGATTTCTAAAATCTCAAGCAATTTAGAATGTGTTCTGTTCTTCAAAGCACAGCACA
CATAAAAATCTGTACTGTCATAGTGACATCTAGGGCAAAGAAGCAAAAGACAGTGATTT[C/T]AAAATCTCAAGCAATTT
85457 IS [CT] AGAATGTGTTCTGTTCTTCAAAGCACAGCACATAACTGCTTCA
85474 I S CGCGCCTTGTGCTCCCCTATCCCT
85474 P C S ATGACGTGGCAGACGCAGATACGCAGGCTY
85474 P T S CGCGCCGAGGACAGATACGCAGGCTTY
85474 T C S CCAGAAGCCTGCGTATCTGCGGGATAGGGGAGCACAAGGCGCGCA
85474 T T S CCAGAAGCCTGCGTATCTGTGGGATAGGGGAGCACAAGGCGCGCA
GTCTCCTCTTCTTTCTTGCCTCCGGCGTCCACCCAGGGTCTCCAGAAGCCTGCGTATCTG[C/T]GGGATAGGGGAGCA
85474 IS [CT] CAAGGCGCGCAGAGGAGACGTGAGCCCAGACCCGGGAGAATCCACC
85491 I A TGGTAATACCTAAAAAGAGGTAGAGAGACTCTATGTTCACAAAATATAGTT
85491 P A A CGCGCCGAGGAATTTCATTTTTACCTTTCTTCAGTY
85491 P C A ATGACGTGGCAGACCATTTCATTTTTACCTTTCTTCAGY
GTCCACTGAAGAAAGGTAAAAATGAAATTACTATATTTTGTGAACATAGAGTCTCTCTACCTCTTTTTAGGTATTACCAC
85491 T A A A
GTCCACTGAAGAAAGGTAAAAATGAAATGACTATATTTTGTGAACATAGAGTCTCTCTACCTCTTTTTAGGTATTACCAC
85491 T C A A
TATGTCTATGTGGTAATACCTAAAAAGAGGTAGAGAGACTCTATGTTCACAAAATATAGT[A/C]ATTTCATTTTTACCTTT
85491 IS [AC] CTTCAGTGGACTGAATTGTATGGAAGGAAATTGATCAGATCTG
85493 I S TGGGAAGTGGGATTGAGGGGGACACAGATAT
85493 P C S ATGACGTGGCAGACGGGCTTCATCAAGAAGTTATY
85493 P T S CGCGCCGAGGAGGCTTCATCAAGAAGTTATAAY
85493 T C S GATTTTATAACTTCTTGATGAAGCCCTATCTGTGTCCCCCTCAATCCCACTTCCCACT
85493 T T S GATTTTATAACTTCTTGATGAAGCCTTATCTGTGTCCCCCTCAATCCCACTTCCCACT
CTGTGCCCCGTTTGCTATAAAGCGTTTTGTGTTTTGATTTTATAACTTCTTGATGAAGCC[C/T]TATCTGTGTCCCCCTC
85493 IS [CT] AATCCCACTTCCCACTGGGCAATCTCGTTTTATTAAAAAATTAT
85525 I A GGCACTCCCGGCTTTCTCTGCATTCACTTAA
85525 P T A CGCGCCGAGGTTAACTCCGGTAGACATCAY
85525 P C A ATGACGTGGCAGACCTAACTCCGGTAGACATCAY
85525 T T A CCCATGATGTCTACCGGAGTTAATAAGTGAATGCAGAGAAAGCCGGGAGTGCCCA
85525 T C A CCCATGATGTCTACCGGAGTTAGTAAGTGAATGCAGAGAAAGCCGGGAGTGCCCA
AGAGGCTGGGGGCCGGGGCCCAAATGACTGGGCACTCCCGGCTTTCTCTGCATTCACTTA[T/C]TAACTCCGGTAGAC
85525 IS [TC] ATCATGGGAAAGCAGGAATGTGGCCAGTTCACTCATAGATATAAAT
85549 I A GGTGAGGAGGAGGGCCTCTTTGTAGAATGAATTGATT
85549 P G A ATGACGTGGCAGACGGCAATGTCTTCCCTCY
85549 P A A CGCGCCGAGGAGCAATGTCTTCCCTCTY
85549 T G A TGCAAGAGGGAAGACATTGCCATCAATTCATTCTACAAAGAGGCCCTCCTCCTCACCAA
85549 T A A TGCAAGAGGGAAGACATTGCTATCAATTCATTCTACAAAGAGGCCCTCCTCCTCACCAA
GAGATTAGTTGGAGAAAAGAGTTTGGTGAGGAGGAGGGCCTCTTTGTAGAATGAATTGAT[G/A]GCAATGTCTTCCCTC
85549 IS [GA] TTGCAGGTTAGCCACTGGTCTGGATGGAATGAGGATTGAAAACAA
85553 I A CCGGAGAAAGCGAGCAGTTTATGTTGGAGCTTGT
85553 P A A CGCGCCGAGGAAGTCAGGATAACCAGTTTTGY
85553 P G A ATGACGTGGCAGACGAGTCAGGATAACCAGTTTTY
85553 T A A AAGGCAAAACTGGTTATCCTGACTTCAAGCTCCAACATAAACTGCTCGCTTTCTCCGGGA
85553 T G A AAGGCAAAACTGGTTATCCTGACTCCAAGCTCCAACATAAACTGCTCGCTTTCTCCGGGA
TCAAGTGTATGTGGCGGGGCAAGTTTCCCGGAGAAAGCGAGCAGTTTATGTTGGAGCTTG[A/G]AGTCAGGATAACCA
85553 IS [AG] GTTTTGCCTTTTTTCTGTGAACCAGCTCCAAAACAATGCTTTACTT
85560 I A TGGGGTTGCTAATTCTCTGCTTCATATCACCATATGCCT
85560 P A A CGCGCCGAGGATTTCTGGTACCAAGTGAGY
85560 P G A ATGACGTGGCAGACGTTTCTGGTACCAAGTGAGY
85560 T A A TCCCCTCACTTGGTACCAGAAATGGCATATGGTGATATGAAGCAGAGAATTAGCAACCCCAGG
85560 T G A TCCCCTCACTTGGTACCAGAAACGGCATATGGTGATATGAAGCAGAGAATTAGCAACCCCAGG

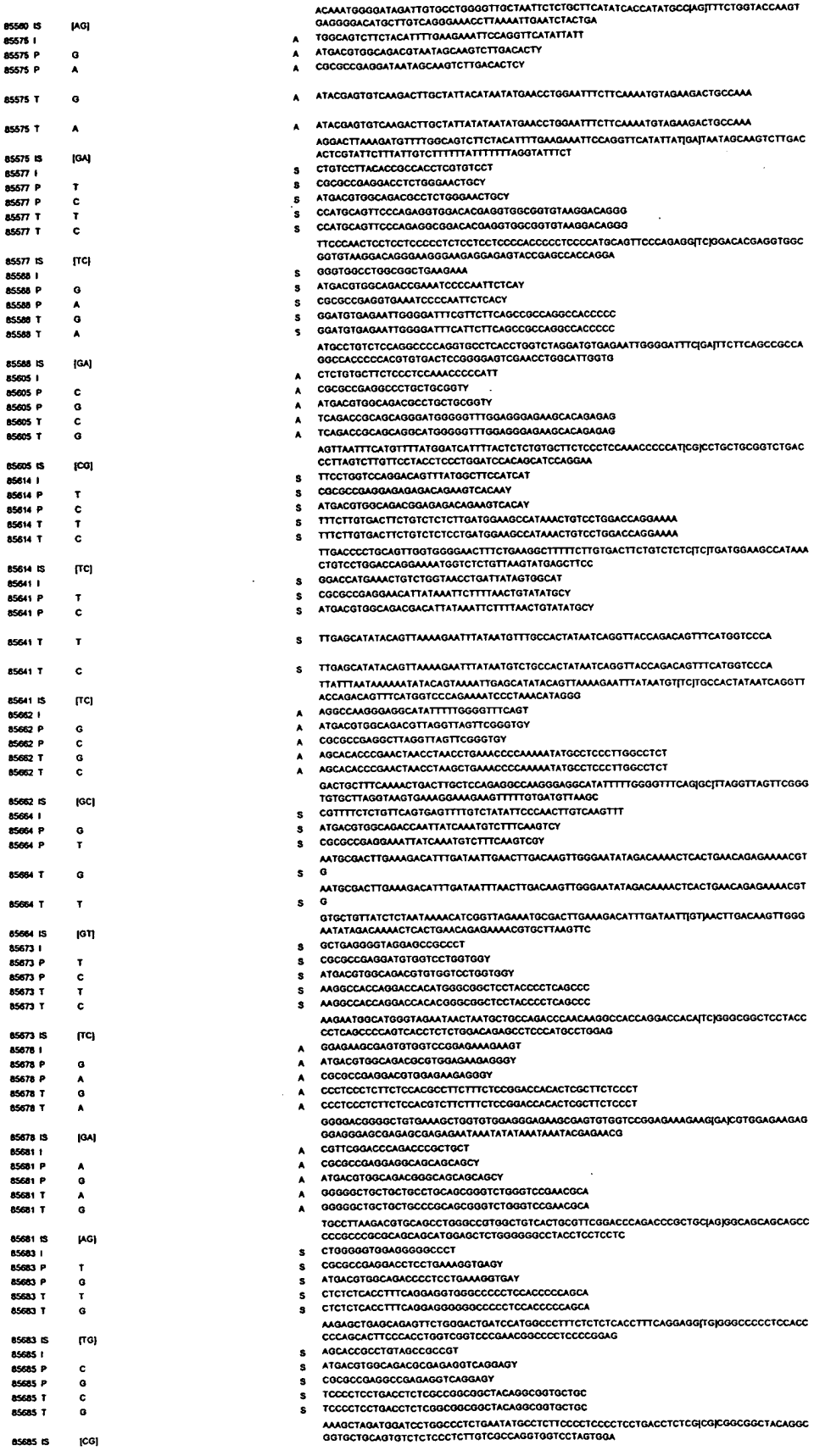

ACAAATGGGGATAGATTGTGCCTGGGGTTGCTAATTCTCTGCTTCATATCACCATATGCC[AG]TTTCTGGTACCAAGT
85560 IS [AG] GAGGGGACATGCTTGTCAGGGAAACCTTAAAATTGAATCTACTGA
85575 I A TGGCAGTCTTCTACATTTTGAAGAAATTCCAGGTTCATATTATT
85575 P G A ATGACGTGGCAGACGTAATAGCAAGTCTTGACACTY
85575 P A A CGCGCCGAGGATAATAGCAAGTCTTGACACTCY
85575 T G A ATACGAGTGTCAAGACTTGCTATTACATAATATGAACCTGGAATTTCTTCAAAATGTAGAAGACTGCCAAA
85575 T A A ATACGAGTGTCAAGACTTGCTATTATATAATATGAACCTGGAATTTCTTCAAAATGTAGAAGACTGCCAAA
AGGACTTAAAGATGTTTTGGCAGTCTTCTACATTTTGAAGAAATTCCAGGTTCATATTAT[GA]TAATAGCAAGTCTTGAC
85575 IS [GA] ACTCGTATTCTTTATTGTCTTTTTTATTTTTTTAGGTATTTCT
85577 I S CTGTCCTTACACCGCCACCTCGTGTCCT
85577 P T S CGCGCCGAGGACCTCTGGGAACTGCY
85577 P C S ATGACGTGGCAGACGCCTCTGGGAACTGCY
85577 T T S CCATGCAGTTCCCAGAGGTGGACACGAGGTGGCGGTGTAAGGACAGGG
85577 T C S CCATGCAGTTCCCAGAGGCGGACACGAGGTGGCGGTGTAAGGACAGGG
TTCCCAACTCCTCCTCCCCCTCTCCTCCTCCCCACCCCCTCCCCATGCAGTTCCCAGAGG[TC]GGACACGAGGTGGC
85577 IS [TC] GGTGTAAGGACAGGGAAGGGAAGAGGAGAGTACCGAGCCACCAGGA
85588 I S GGGTGGCCTGGCGGCTGAAGAAA
85588 P G S ATGACGTGGCAGACCGAAATCCCCAATTCTCAY
85588 P A S CGCGCCGAGGTGAAATCCCCAATTCTCACY
85588 T G S GGATGTGAGAATTGGGGATTTCGTTCTTCAGCCGCCAGGCCACCCCC
85588 T A S GGATGTGAGAATTGGGGATTTCATTCTTCAGCCGCCAGGCCACCCCC
ATGCCTGTCTCCAGGCCCCAGGTGCCTCACCTGGTCTAGGATGTGAGAATTGGGGATTTC[GA]TTCTTCAGCCGCCA
85588 IS [GA] GGCCACCCCCACGTGTGACTCCGGGGAGTCGAACCTGGCATTGGTG
85605 I A CTCTGTGCTTCTCCCTCCAAACCCCCATT
85605 P C A CGCGCCGAGGCCCTGCTGCGGTY
85605 P G A ATGACGTGGCAGACGCCTGCTGCGGTY
85605 T C A TCAGACCGCAGCAGGGATGGGGGTTTGGAGGGAGAAGCACAGAGAG
85605 T G A TCAGACCGCAGCAGGCATGGGGGTTTGGAGGGAGAAGCACAGAGAG
AGTTAATTTCATGTTTTATGGATCATTTTACTCTCTGTGCTTCTCCCTCCAAACCCCCAT[CG]CCTGCTGCGGTCTGAC
85605 IS [CG] CCTTAGTCTTGTTCCTACCTCCCTGGATCCACAGCATCCAGGAA
85614 I S TTCCTGGTCCAGGACAGTTTATGGCTTCCATCAT
85614 P T S CGCGCCGAGGAGAGACAGAAGTCACAAY
85614 P C S ATGACGTGGCAGACGGAGAGACAGAAGTCACAY
85614 T T S TTTCTTGTGACTTCTGTCTCTCTTGATGGAAGCCATAAACTGTCCTGGACCAGGAAAA
85614 T C S TTTCTTGTGACTTCTGTCTCTCCTGATGGAAGCCATAAACTGTCCTGGACCAGGAAAA
TTGACCCCTGCAGTTGGTGGGGAACTTTCTGAAGGCTTTTTCTTGTGACTTCTGTCTCT[C]T[C]TGATGGAAGCCATAAA
85614 IS [TC] CTGTCCTGGACCAGGAAAATGGTCTCTGTTAAGTATGAGCTTCC
85641 I S GGACCATGAAACTGTCTGGTAACCTGATTATAGTGGCAT
85641 P T S CGCGCCGAGGAACATTATAAATTCTTTTAACTGTATATGCY
85641 P C S ATGACGTGGCAGACGACATTATAAATTCTTTTAACTGTATATGCY
85641 T T S TTGAGCATATACAGTTAAAAGAATTTATAATGTTTGCCACTATAATCAGGTTACCAGACAGTTTCATGGTCCCA
85641 T C S TTGAGCATATACAGTTAAAAGAATTTATAATGTCTGCCACTATAATCAGGTTACCAGACAGTTTCATGGTCCCA
TTATTTAATAAAAAATATACAGTAAAATTGAGCATATACAGTTAAAAGAATTTATAATGT[TC]TGCCACTATAATCAGGTT
85641 IS [TC] ACCAGACAGTTTCATGGTCCCAGAAAATCCCTAAACATAGGG
85662 I A AGGCCAAGGGAGGCATATTTTTGGGGTTTCAGT
85662 P G A ATGACGTGGCAGACGTTAGGTTAGTTCGGGTGY
85662 P C A CGCGCCGAGGCTTAGGTTAGTTCGGGTGY
85662 T G A AGCACACCCGAACTAACCTAACCTGAAACCCCAAAAATATGCCTCCCTTGGCCTCT
85662 T C A AGCACACCCGAACTAACCTAAGCTGAAACCCCAAAAATATGCCTCCCTTGGCCTCT
GACTGCTTTCAAAACTGACTTGCTCCAGAGGCCAAGGGAGGCATATTTTTGGGGTTTCAG[GC]TTAGGTTAGTTCGGG
85662 IS [GC] TGTGCTTAGGTAAGTGAAAGGAAAGAAGTTTTTGTGATGTTAAGC
85664 I S CGTTTTCTCTGTTCAGTGAGTTTTGTCTATATTCCCAACTTGTCAAGTTT
85664 P G S ATGACGTGGCAGACCAATTATCAAATGTCTTTCAAGTCY
85664 P T S CGCGCCGAGGAAATTATCAAATGTCTTTCAAGTCGY
AATGCGACTTGAAAGACATTTGATAATTGAACTTGACAAGTTGGGAATATAGACAAAACTCACTGAACAGAGAAAACGT
85664 T G S G
AATGCGACTTGAAAGACATTTGATAATTTAACTTGACAAGTTGGGAATATAGACAAAACTCACTGAACAGAGAAAACGT
85664 T T S G
GTGCTGTTATCTCTAATAAAACATCGGTTAGAAATGCGACTTGAAAGACATTTGATAATT[GT]AACTTGACAAGTTGGG
85664 IS [GT] AATATAGACAAAACTCACTGAACAGAGAAAACGTGCTTAAGTTC
85673 I S GCTGAGGGGTAGGAGCCGCCCT
85673 P T S CGCGCCGAGGATGTGGTCCTGGTGGY
85673 P C S ATGACGTGGCAGACGTGTGGTCCTGGTGGY
85673 T T S AAGGCCACCAGGACCACATGGGCGGCTCCTACCCCTCAGCCC
85673 T C S AAGGCCACCAGGACCACACGGGCGGCTCCTACCCCTCAGCCC
AAGAATGGCATGGGTAGAATAACTAATGCTGCCAGACCCAACAAGGCCACCAGGACCACA[TC]GGGCGGCTCCTACC
85673 IS [TC] CCTCAGCCCCAGTCACCTCTCTGGACAGAGCCTCCCATGCCTGGAG
85678 I A GGAGAAGCGAGTGTGGTCCGGAGAAAGAAGT
85678 P G A ATGACGTGGCAGACGCGTGGAGAAGAGGGY
85678 P A A CGCGCCGAGGACGTGGAGAAGAGGGY
85678 T G A CCCTCCCTCTTCTCCACGCCTTCTTTCTCCGGACCACACTCGCTTCTCCCT
85678 T A A CCCTCCCTCTTCTCCACGTCTTCTTTCTCCGGACCACACTCGCTTCTCCCT
GGGGACGGGGCTGTGAAAGCTGGTGTGGAGGGAGAAGCGAGTGTGGTCCGGAGAAAGAAG[GA]CGTGGAGAAGAG
85678 IS [GA] GGAGGGAGCGAGAGCGAGAGAATAAATATATAAATAAATACGAGAACG
85681 I A CGTTCGGACCCAGACCCGCTGCT
85681 P A A CGCGCCGAGGAGGCAGCAGCAGCY
85681 P G A ATGACGTGGCAGACGGGCAGCAGCAGCY
85681 T A A GGGGGCTGCTGCTGCCCGCAGCGGGTCTGGGTCCGAACGCA
85681 T G A GGGGGCTGCTGCTGCCCGCAGCGGGTCTGGGTCCGAACGCA
TGCCTTAAGACGTGCAGCCTGGGCCGTGGCTGTCACTGCGTTCGGACCCAGACCCGCTGC[AG]GGCAGCAGCAGCC
85681 IS [AG] CCCGCCCGCGCAGCAGCATGGAGCTCTGGGGGGCCTACCTCCTCCTC
85683 I S CTGGGGGTGGAGGGGGCCCT
85683 P T S CGCGCCGAGGACCTCCTGAAAGGTGAGY
85683 P G S ATGACGTGGCAGACCCCTCCTGAAAGGTGAY
85683 T T S CTCTCTCACCTTTCAGGAGGTGGGCCCCCTCCACCCCCAGCA
85683 T G S CTCTCTCACCTTTCAGGAGGGGGGCCCCCTCCACCCCCAGCA
AAGAGCTGAGCAGAGTTCTGGGACTGATCCATGGCCCTTTCTCTCTCACCTTTCAGGAGG[TG]GGGCCCCCTCCACC
85683 IS [TG] CCCAGCACTTCCCACCTGGTCGGTCCCGAACGGCCCCTCCCCGGAG
85685 I S AGCACCGCCTGTAGCCGCCGT
85685 P C S ATGACGTGGCAGACGCGAGAGGTCAGGAGY
85685 P G S CGCGCCGAGGCCGAGAGGTCAGGAGY
85685 T C S TCCCCTCCTGACCTCTCGCCGGCGGCTACAGGCGGTGCTGC
85685 T G S TCCCCTCCTGACCTCTCGGCGGCGGCTACAGGCGGTGCTGC
AAAGCTAGATGGATCCTGGCCCTCTGAATATGCCTCTTCCCCTCCCCTCCTGACCTCTCG[CG]CGGCGGCTACAGGC
85685 IS [CG] GGTGCTGCAGTGTCTCTCCCTCTTGTCGCCAGGTGGTCCTAGTGGA

FIGURE 129D

85692 I		S	ACACCTTCCCCACCGCACATACCAGGA		
85692 P	A	S	CGCGCCGAGGTTTCCAGGGTTTGCCY		
85692 P	G	S	ATGACGTGGCAGACCTTCCAGGGTTTGCCY		
85692 T	A	S	GCTGGGCAAACCCTGGAAACCTGGTATGTGCGGTGGGGAAGGTGTGG		
85692 T	G	S	GCTGGGCAAACCCTGGAAGCCTGGTATGTGCGGTGGGGAAGGTGTGG		
85692 IS	[AG]		CATTGACCAGCCTCTTCCACCTGGTGTTACTGTGACCTCCTGGCTGGGCAAACCCTGGAA[AG]CCTGGTATGTGCGG TGGGGAAGGTGTGGCACAGCCTCCAGGCCTCAGCACCTTAATGGTG		
85703 I		S	GCAGCTTCTGCTTGGCCATGGCCAGA		
85703 P	G	S	ATGACGTGGCAGACCGAATAGTACATGCCAAAGTY		
85703 P	A	S	CGCGCCGAGGTGAATAGTACATGCCAAAGTTY		
85703 T	G	S	CAACAACTTTGGCATGTACTATTCGCTGGCCATGGCCAAGCAGAAGCTGCCC		
85703 T	A	S	CAACAACTTTGGCATGTACTATTCACTGGCCATGGCCAAGCAGAAGCTGCCC		
85703 IS	[GA]		GGTGCTGACCATCGCCATGCCTGTGCCCGTCATTGTCAACAACTTTGGCATGTACTATTC[GA]CTGGCCATGGCCAAG CAGAAGCTGCCCAAGAAGAAGAACAAACACATCCCCCGGCCCCCG		KCNC3
85722 I		A	GTGGGTGGGGGGGTGGTGATTTTTTTTGTCA		
85722 P	C	A	ATGACGTGGCAGACCCTTCACACTTTAAAAGATCAATY		
85722 P	T	A	CGCGCCGAGGTCTTCACACTTTAAAAGATCAATCY		
85722 T	C	A	GATTGATTGATCTTTTAAAGTGTGAAGGGACAAAAAAAATCACCACCCCCCCACCCACAG		
85722 T	T	A	GATTGATTGATCTTTTAAAGTGTGAAGAGACAAAAAAAATCACCACCCCCCCACCCACAG		
85722 IS	[CT]		CATAGGAATTGTGTGTGTGTGATTGTGTCTGTGGGTGGGGGGGTGGTGATTTTTTTTGTC[CT]CTTCACACTTTAAAA GATCAATCAATCGAATCCAATCAAACCTGATTTCCAAATTACTGG		
85725 I		S	GAGGCTGCTGGGGGCTTGGTGAT		
85725 P	C	S	ATGACGTGGCAGACGTGAGAACGTCAGGACAY		
85725 P	T	S	CGCGCCGAGGATGAGAACGTCAGGACAY		
85725 T	C	S	TTCATGTCCTGACGTTCTCACTCACCAAGCCCCCAGCAGCCTCGC		
85725 T	T	S	TTCATGTCCTGACGTTCTCATTCACCAAGCCCCCAGCAGCCTCGC		
85725 IS	[CT]		CTGAGCTTGCAGTGGTGTGTCAGCACGAAGACAAAGGTCATTCATGTCCTGACGTTCTCA[CT]TCACCAAGCCCCCAG CAGCCTCGCTCCATCCTCACCTGGGATCCCATCAGGCCGAGGGCA		
85733 I		A	CCCGAGGGCTCAGCATCCCTCCAT		
85733 P	G	A	ATGACGTGGCAGACGAAAGACTGATCTACATGTTCAY		
85733 P	A	A	CGCGCCGAGGAAAAGACTGATCTACATGTTCAY		
85733 T	G	A	CAGGTGAACATGTAGATCAGTCTTTCTGGAGGGATGCTGAGCCCTCGGGCC		
85733 T	A	A	CAGGTGAACATGTAGATCAGTCTTTTTGGAGGGATGCTGAGCCCTCGGGCC		
85733 IS	[GA]		AGCCCTGAGTGAGGCAGCCGGGTGGCACCGCTGTGGGCCCGAGGGCTCAGCATCCCTCCA[GA]AAAGACTGATCTA CATGTTCACCTGGGCCATGAAGTGTGACTTCTCCTGAAGAGAGCTGG		
85736 I		S	CCTGGTATTTGATGTTAATATTGTTTGCTGAAACTTGAACTTCTGA		
85736 P	G	S	ATGACGTGGCAGACCTGACGTAGAGGTTTTCTCY		
85736 P	A	S	CGCGCCGAGGTTGACGTAGAGGTTTTCTCY		
85736 T	G	S	CCTTGAGAAAACCTCTACGTCAGCAGAAGTTCAAGTTTCAGCAAACAATATTAACATCAAATACCAGGTA		
85736 T	A	S	CCTTGAGAAAACCTCTACGTCAACAGAAGTTCAAGTTTCAGCAAACAATATTAACATCAAATACCAGGTA		
85736 IS	[GA]		CTTAATATATTTACTTAAAGAGTCAAAGGCTTGAGTGTCCTTGAGAAAACCTCTACGTCA[GA]CAGAAGTTCAAGTTTCA GCAAACAATATTAACATCAAATACCAGGTAGCTATAGGTCGCC		
89359 I		S	CTCACCAAAGGGGCCCCACCCTGA		
89359 P	A	S	CGCGCCGAGGTGACTTGAACAGACCATTACY		
89359 P	G	S	ATGACGTGGCAGACCGACTTGAACAGACCATTAY		
89359 T	A	S	GCCTGTAATGGTCTGTTCAAGTCACAGGGTGGGGCCCCTTTGGTGAGTC		
89359 T	G	S	GCCTGTAATGGTCTGTTCAAGTCGCAGGGTGGGGCCCCTTTGGTGAGTC		
89359 IS	[AG]		CTGATGGAGGGTCCCACTTACCCAAGCAGGTGACCATGCCTGTAATGGTCTGTTCAAGTC[AG]CAGGGTGGGGCCCC TTTGGTGAGTCTTCTAAAGGCCTCAGGATCCCTGAGTGTGAGCAGC		
89442 I		S	CCACCCAAATTAGAACAAGTTACAGAAAAAGAAACTCTTATCTTCAATAACT		
89442 P	C	S	ATGACGTGGCAGACGTAACACCTAAACACCCTGY		
89442 P	T	S	CGCGCCGAGGATAACACCTAAACACCCTGY		
89442 T	C	S	GTTTCAGGGTGTTTAGGTGTTACGTTATTGAAGATAAGAGTTTCTTTTTCTGTAACTTGTTCTAATTTGGGTGGGT		
89442 T	T	S	GTTTCAGGGTGTTTAGGTGTTATGTTATTGAAGATAAGAGTTTCTTTTTCTGTAACTTGTTCTAATTTGGGTGGGT		
89442 IS	[CT]		TTTTCATAGCCCTTGGCAACTTGCTTCTGGGATATTCAGTTTCAGGGTGTTTAGGTGTTA[CT]GTTATTGAAGATAAGA GTTTCTTTTTCTGTAACTTGTTCTAATTTGGGTGGGTAATAAGA		
89445 I		A	CGATATAGTCAAGGAATTTGCCAAGTATGATGTGGATCCCCT		
89445 P	A	A	CGCGCCGAGGAGAAGTGGATCAAACAGTACY		
89445 P	G	A	ATGACGTGGCAGACGGAAGTGGATCAAACAGTACY		
89445 T	A	A	CCGTGTACTGTTTGATCCACTTCTGGGGATCCACATCATACTTGGCAAATTCCTTGACTATATCGGG		
89445 T	G	A	CCGTGTACTGTTTGATCCACTTCCGGGGATCCACATCATACTTGGCAAATTCCTTGACTATATCGGG		
89445 IS	[AG]		AATACTGTTACATTTGCCCCGATATAGTCAAGGAATTTGCCAAGTATGATGTGGATCCCC[AG]GAAGTGGATCAAACAG TACACGGGTATCAATGCGATCAACCAGAAGAAGTTTGTTATAGA		ARP3BETA
89468 I		S	AGCATAAGCTGAGATCTGCGGGCAAAGAACAAACT		
89468 P	C	S	ATGACGTGGCAGACGTTGAGTCATGATGCGAAY		
89468 P	T	S	CGCGCCGAGGATTGAGTCATGATGCGAAGY		
89468 T	C	S	TAAGCTTCGCATCATGACTCAACGTTTGTTCTTTGCCCGCAGATCTCAGCTTATGCTCT		
89468 T	T	S	TAAGCTTCGCATCATGACTCAATGTTTGTTCTTTGCCCGCAGATCTCAGCTTATGCTCT		
89468 IS	[CT]		AAACAGCTGTTTCTTGATGCACATCTTCACCTCTTCTTTAAGCTTCGCATCATGACTCAA[CT]GTTTGTTCTTTGCCCGC AGATCTCAGCTTATGCTCTGCCTCTATTCCATGCTCAGTTTGC		
89468 I		A	GGCCCTGGAAGCCAATGCGCATGC		
89468 P	T	A	CGCGCCGAGGTGGCAGTCAACCGGY		
89468 P	A	A	ATGACGTGGCAGACAGGCAGTCAACCGGY		
89468 T	T	A	GTAACCGGTTGACTGCCACATGCGCATTGGCTTCCAGGGCCGG		
89468 T	A	A	GTAACCGGTTGACTGCCTCATGCGCATTGGCTTCCAGGGCCGG		
89468 IS	[TA]		TCCCAAAAGTGAACTGGCACAAAAAGGTGGGACTTCCGGCCCTGGAAGCCAATGCGCATG[TA]GGCAGTCAACCGGT TACGCAATACTTCCTGTCGCGTGATCCTGAGGACCAATGAAAATGC		
89505 I		A	GGCCTTGATGAAGCCAGTGCTTTTTGGGAAAAAA		
89505 P	C	A	ATGACGTGGCAGACCGGAGCAAGGCAACY		
89505 P	T	A	CGCGCCGAGGTGGAGCAAGGCAACGY		
89505 T	C	A	CGTGCGTTGCCTTGCTCCGTTTTTCCCAAAAAGCACTGGCTTCATCAAGGCCAC		
89505 T	T	A	CGTGCGTTGCCTTGCTCCATTTTTCCCAAAAAGCACTGGCTTCATCAAGGCCAC		
89505 IS	[CT]		TCCCAGTGCACTCAGGAGATCGTCGGTGGCCTTGATGAAGCCAGTGCTTTTTGGGAAAAA[CT]GGAGCAAGGCAACG CACGACAGAAGCGGTGCACCAAGGAGTAAAGATTCAGTTCCATGGG		
89506 I		A	CAGGTGGGAGTGAGGACGCAGGGTCT		
89506 P	G	A	ATGACGTGGCAGACGGCACTCGAGTCGAY		
89506 P	A	A	CGCGCCGAGGAGCACTCGAGTCGACY		
89506 T	G	A	AGCAGTCGACTCGAGTGCCGACCCTGCGTCCTCACTCCCACCTGTT		
89506 T	A	A	AGCAGTCGACTCGAGTGCTGACCCTGCGTCCTCACTCCCACCTGTT		
89506 IS	[GA]		GCTTCCTTCCTAGCTGACTTGACTCCCAGCAGTAACAGGTGGGAGTGAGGACGCAGGGTC[GA]GCACTCGAGTCGAC TGCTCTGGCTCCAGGCGTATTTTCTGAAACTGGACTCTGCCAGCCC		
89583 I		A	CACAGAAGATGTTTATTTAGAACTTAAGTTGATTAAAAAATAAAAACAACACAGAAAACTT		
89583 P	G	A	ATGACGTGGCAGACGAGAATACTATCAGCCTAAACAY		

FIGURE 129D

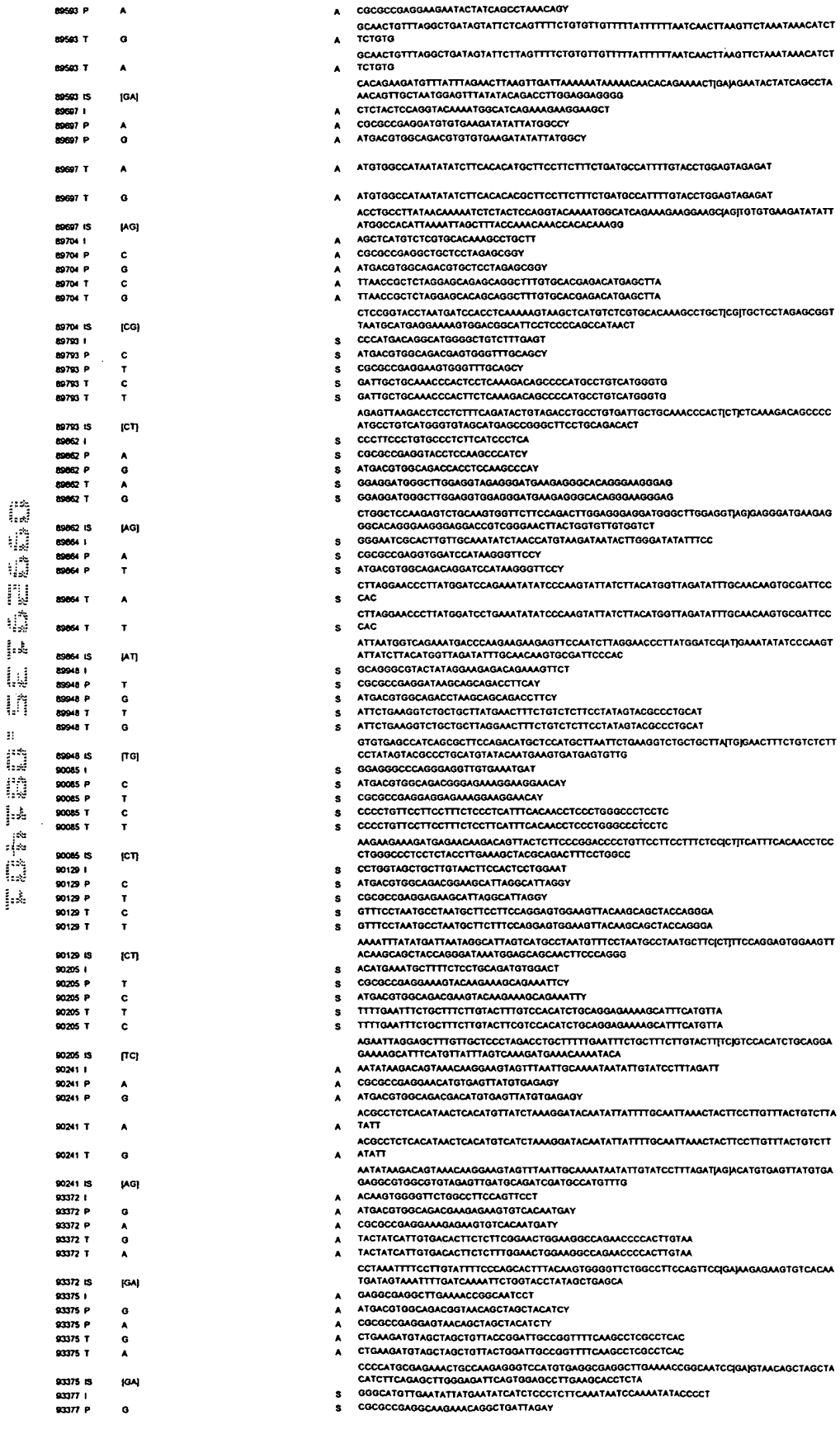

89593 P A A CGCGCCGAGGAAGAATACTATCAGGCTAAACAGY
89593 T G A GCAACTGTTTAGGCTGATAGTATTCTCAGTTTTCTGTGTTGTTTTTATTTTTTAATCAACTTAAGTTCTAAATAAACATCT TCTGTG
89593 T A A GCAACTGTTTAGGCTGATAGTATTCTTAGTTTTCTGTGTTGTTTTTATTTTTTAATCAACTTAAGTTCTAAATAAACATCT TCTGTG
89593 IS [GA] CACAGAAGATGTTTATTTAGAACTTAAGTTGATTAAAAAATAAAAACAACACAGAAAACT[GA]AGAATACTATCAGCCTA AACAGTTGCTAATGGAGTTTATATACAGACCTTGGAGGAGGGG
89697 I A CTCTACTCCAGGTACAAAATGGCATCAGAAAGAAGGAAGCT
89697 P A A CGCGCCGAGGATGTGTGAAGATATATTATGGCCY
89697 P G A ATGACGTGGCAGACGTGTGTGAAGATATATTATGGCY
89697 T A A ATGTGGCCATAATATATCTTCACACATGCTTCCTTCTTTCTGATGCCATTTTGTACCTGGAGTAGAGAT
89697 T G A ATGTGGCCATAATATATCTTCACACACGCTTCCTTCTTTCTGATGCCATTTTGTACCTGGAGTAGAGAT
89697 IS [AG] ACCTGCCTTATAACAAAAATCTCTACTCCAGGTACAAAATGGCATCAGAAAGAAGGAAGC[AG]TGTGTGAAGATATATT ATGGCCACATTAAAATTAGCTTTACCAAACAAACCACACACAAAGG
89704 I A AGCTCATGTCTCGTGCACAAAGCCTGCTT
89704 P C A CGCGCCGAGGCTGCTCCTAGAGCGGY
89704 P G A ATGACGTGGCAGACGTGCTCCTAGAGCGGY
89704 T C A TTAACCGCTCTAGGAGCAGAGCAGGCTTTGTGCACGAGACATGAGCTTA
89704 T G A TTAACCGCTCTAGGAGCACAGCAGGCTTTGTGCACGAGACATGAGCTTA
89704 IS [CG] CTCCGGTACCTAATGATCCACCTCAAAAAGTAAGCTCATGTCTCGTGCACAAAGCCTGCT[CG]TGCTCCTAGAGCGGT TAATGCATGAGGAAAAGTGGACGGCATTCCTCCCCAGCCATAACT
89793 I S CCCATGACAGGCATGGGGCTGTCTTTGAGT
89793 P C S ATGACGTGGCAGACGAGTGGGTTTGCAGCY
89793 P T S CGCGCCGAGGAAGTGGGTTTGCAGCY
89793 T C S GATTGCTGCAAACCCACTCCTCAAAGACAGCCCCATGCCTGTCATGGGTG
89793 T T S GATTGCTGCAAACCCACTTCTCAAAGACAGCCCCATGCCTGTCATGGGTG
89793 IS [CT] AGAGTTAAGACCTCCTCTTTCAGATACTGTAGACCTGCCTGTGATTGCTGCAAACCCACT[CT]CTCAAAGACAGCCCC ATGCCTGTCATGGGTGTAGCATGAGCCGGGCTTCCTGCAGACACT
89862 I S CCCTTCCCTGTGCCCTCTTCATCCCTCA
89862 P A S CGCGCCGAGGTACCTCCAAGCCCATCY
89862 P G S ATGACGTGGCAGACCACCTCCAAGCCCAY
89862 T A S GGAGGATGGGCTTGGAGGTAGAGGGATGAAGAGGGCACAGGGAAGGGAG
89862 T G S GGAGGATGGGCTTGGAGGTGGAGGGATGAAGAGGGCACAGGGAAGGGAG
89862 IS [AG] CTGGCTCCAAGAGTCTGCAAGTGGTTCTTCCAGACTTGGAGGGAGGATGGGCTTGGAGGT[AG]GAGGGATGAAGAG GGCACAGGGAAGGGAGGACCGTCGGGAACTTACTGGTGTTGTGGTCT
89864 I S GGGAATCGCACTTGTTGCAAATATCTAACCATGTAAGATAATACTTGGGATATATTTCC
89864 P A S CGCGCCGAGGTGGATCCATAAGGGTTCCY
89864 P T S ATGACGTGGCAGACAGGATCCATAAGGGTTCCY
89864 T A S CTTAGGAACCCTTATGGATCCAGAAATATATCCCAAGTATTATCTTACATGGTTAGATATTTGCAACAAGTGCGATTCC CAC
89864 T T S CTTAGGAACCCTTATGGATCCTGAAATATATCCCAAGTATTATCTTACATGGTTAGATATTTGCAACAAGTGCGATTCC CAC
89864 IS [AT] ATTAATGGTCAGAAATGACCCAAGAAGAAGAGTTCCAATCTTAGGAACCCTTATGGATCC[AT]GAAATATATCCCAAGT ATTATCTTACATGGTTAGATATTTGCAACAAGTGCGATTCCCAC
89948 I S GCAGGGCGTACTATAGGAAGAGACAGAAAGTTCT
89948 P T S CGCGCCGAGGATAAGCAGCAGACCTTCAY
89948 P G S ATGACGTGGCAGACCTAAGCAGCAGACCTTCY
89948 T T S ATTCTGAAGGTCTGCTGCTTATGAACTTTCTGTCTCTTCCTATAGTACGCCCTGCAT
89948 T G S ATTCTGAAGGTCTGCTGCTTAGGAACTTTCTGTCTCTTCCTATAGTACGCCCTGCAT
89948 IS [TG] GTGTGAGCCATCAGCGCTTCCAGACATGCTCCATGCTTAATTCTGAAGGTCTGCTGCTTA[TG]GAACTTTCTGTCTCTT CCTATAGTACGCCCTGCATGTATACAATGAAGTGATGAGTGTTG
90085 I S GGAGGGCCCAGGGAGGTTGTGAAATGAT
90085 P C S ATGACGTGGCAGACGGGAGAAAGGAAGGAACAY
90085 P T S CGCGCCGAGGAGGAGAAAGGAAGGAACAY
90085 T C S CCCCTGTTCCTTCCTTTCTCCCTCATTTCACAACCTCCCTGGGCCCTCCTC
90085 T T S CCCCTGTTCCTTCCTTTCTCCTTCATTTCACAACCTCCCTGGGCCCTCCTC
90085 IS [CT] AAGAAGAAAGATGAGAACAAGACAGTTACTCTTCCCGGACCCCTGTTCCTTCCTTTCTCC[CT]TCATTTCACAACCTCC CTGGGCCCTCCTCTACCTTGAAAGCTACGCAGACTTTCCTGGCC
90129 I S CCTGGTAGCTGCTTGTAACTTCCACTCCTGGAAT
90129 P C S ATGACGTGGCAGACGGAAGCATTAGGCATTAGGY
90129 P T S CGCGCCGAGGAGAAGCATTAGGCATTAGGY
90129 T C S GTTTCCTAATGCCTAATGCTTCCTTCCAGGAGTGGAAGTTACAAGCAGCTACCAGGGA
90129 T T S GTTTCCTAATGCCTAATGCTTCTTTCCAGGAGTGGAAGTTACAAGCAGCTACCAGGGA
90129 IS [CT] AAAATTTATATGATTAATAGGCATTAGTCATGCCTAATGTTTCCTAATGCCTAATGCTTC[CT]TTCCAGGAGTGGAAGTT ACAAGCAGCTACCAGGGATAAATGGAGCAGCAACTTCCCAGGG
90205 I S ACATGAAATGCTTTTCTCCTGCAGATGTGGACT
90205 P T S CGCGCCGAGGAAAGTACAAGAAAGCAGAAATTCY
90205 P C S ATGACGTGGCAGACGAAGTACAAGAAAGCAGAAATTY
90205 T T S TTTTGAATTTCTGCTTTCTTGTACTTTGTCCACATCTGCAGGAGAAAAGCATTTCATGTTA
90205 T C S TTTTGAATTTCTGCTTTCTTGTACTTCGTCCACATCTGCAGGAGAAAAGCATTTCATGTTA
90205 IS [TC] AGAATTAGGAGCTTTGTTGCTCCCTAGACCTGCTTTTTGAATTTCTGCTTTCTTGTACTT[TC]GTCCACATCTGCAGGA GAAAAGCATTTCATGTTATTTAGTCAAAGATGAAACAAAATACA
90241 I A AATATAAGACAGTAAACAAGGAAGTAGTTTAATTGCAAAATAATATTGTATCCTTTAGATT
90241 P A A CGCGCCGAGGAACATGTGAGTTATGTGAGAGY
90241 P G A ATGACGTGGCAGACGACATGTGAGTTATGTGAGAGY
90241 T A A ACGCCTCTCACATAACTCACATGTTATCTAAAGGATACAATATTATTTTGCAATTAAACTACTTCCTTGTTTACTGTCTTA TATT
90241 T G A ACGCCTCTCACATAACTCACATGTCATCTAAAGGATACAATATTATTTTGCAATTAAACTACTTCCTTGTTTACTGTCTT ATATT
90241 IS [AG] AATATAAGACAGTAAACAAGGAAGTAGTTTAATTGCAAAATAATATTGTATCCTTTAGAT[AG]ACATGTGAGTTATGTGA GAGGCGTGGCGTGTAGAGTTGATGCAGATCGATGCCATGTTTG
93372 I A ACAAGTGGGGTTCTGGCCTTCCAGTTCCT
93372 P G A ATGACGTGGCAGACGAAGAGAAGTGTCACAATGAY
93372 P A A CGCGCCGAGGAAAGAGAAGTGTCACAATGATY
93372 T G A TACTATCATTGTGACACTTCTCTTCGGAACTGGAAGGCCAGAACCCCACTTGTAA
93372 T A A TACTATCATTGTGACACTTCTCTTTGGAACTGGAAGGCCAGAACCCCACTTGTAA
93372 IS [GA] CCTAAATTTTCCTTGTATTTTCCCAGCACTTTACAAGTGGGGTTCTGGCCTTCCAGTTCC[GA]AAGAGAAGTGTCACAA TGATAGTAAATTTTGATCAAAATTCTGGTACCTATAGCTGAGCA
93375 I A GAGGCGAGGCTTGAAAACCGGCAATCCT
93375 P G A ATGACGTGGCAGACGGTAACAGCTAGCTACATCY
93375 P A A CGCGCCGAGGAGTAACAGCTAGCTACATCTY
93375 T G A CTGAAGATGTAGCTAGCTGTTACCGGATTGCCGGTTTTCAAGCCTCGCCTCAC
93375 T A A CTGAAGATGTAGCTAGCTGTTACTGGATTGCCGGTTTTCAAGCCTCGCCTCAC
93375 IS [GA] CCCCATGCGAGAAACTGCCAAGAGGGTCCATGTGAGGCGAGGCTTGAAAACCGGCAATCC[GA]GTAACAGCTAGCTA CATCTTCAGAGCTTGGGAGATTCAGTGGAGCCTTGAAGCACCTCTA
93377 I S GGGCATGTTGAATATTATGAATATCATCTCCCTCTTCAAATAATCCAAAATATACCCCT
93377 P G S CGCGCCGAGGCAAGAAACAGGCTGATTAGAY

FIGURE 129D

93377	P	C	S	ATGACGTGGCAGACGAAGAAACAGGCTGATTAGAY
93377	T	G	S	CACCTCTAATCAGCCTGTTTCTTGGGGGTATATTTTGGATTATTTGAAGAGGGAGATGATATTCATAATATTCAACATG CCCAA
93377	T	C	S	CACCTCTAATCAGCCTGTTTCTTCGGGGTATATTTTGGATTATTTGAAGAGGGAGATGATATTCATAATATTCAACATG CCCAA
93377	IS	[GC]		ATCTTCAGAGCTTGGGAGATTCAGTGGAGCCTTGAAGCACCTCTAATCAGCCTGTTTCTT[GC]GGGGTATATTTTGGA TTATTTGAAGAGGGAGATGATATTCATAATATTCAACATGCCCAA
93379	I		A	GATGGTCAAGGATGTCTCAGGAAGAAGAGGGCAT
93379	P	A	A	CGCGCCGAGGAGAAGAGTACAGGAAACTTGY
93379	P	G	A	ATGACGTGGCAGACGGAAGAGTACAGGAAACTTGY
93379	T	A	A	TACCCAAGTTTCCTGTACTCTTCTTGCCCTCTTCTTCCTGAGACATCCTTGACCATCAC
93379	T	G	A	TACCCAAGTTTCCTGTACTCTTCCTGCCCTCTTCTTCCTGAGACATCCTTGACCATCAC
93379	IS	[AG]		GACACAGTTATCTCAGTGGAGAGCTGTGATGGTCAAGGATGTCTCAGGAAGAAGAGGGCA[AG]GAAGAGTACAGGAA ACTTGGGTAGAACAAGGAATCTCGGGGCATAACAACAAAAGAAATC
93383	I		A	GGGTCTTGACATCTTTATGAACACAGAAAGACCAGTGCTAACAAT
93383	P	G	A	ATGACGTGGCAGACGTAAAGAGAAAAACGAGGCTY
93383	P	A	A	CGCGCCGAGGATAAAGAGAAAAACGAGGCTY
93383	T	G	A	TAAAAGCCTCGTTTTTCTCTTTACTTGTTAGCACTGGTCTTTCTGTGTTCATAAAGATGTCAAGACCCAA
93383	T	A	A	TAAAAGCCTCGTTTTTCTCTTTATTTGTTAGCACTGGTCTTTCTGTGTTCATAAAGATGTCAAGACCCAA
93383	IS	[GA]		TTCTTGTTTTTTTTTTTGGGTCTTGACATCTTTATGAACACAGAAAGACCAGTGCTAACAA[GA]TAAAGAGAAAAACGAG GCTTTTACCACTACTCGTTCAGGTCTGCTGACAGTACATTTTTA
93390	I		S	GTTTGTGACATGGCCCAGACTTTTCTCATCTTTTCAAAAGTAAGAT
93390	P	T	S	CGCGCCGAGGAGTACGTATGAAGAAACAGCY
93390	P	C	S	ATGACGTGGCAGACGGTACGTATGAAGAAACAGCY
93390	T	T	S	AGTCGCTGTTTCTTCATACGTACTTCTTACTTTTGAAAAGATGAGAAAAGTCTGGGCCATGTCACAAACAT
93390	T	C	S	AGTCGCTGTTTCTTCATACGTACCTCTTACTTTTGAAAAGATGAGAAAAGTCTGGGCCATGTCACAAACAT
93390	IS	[TC]		ACCTAGTGGGTGGCAGTCACAAAAGAGATAAACAATAAGTCGCTGTTTCTTCATACGTAC[TC]TCTTACTTTTGAAAAG ATGAGAAAAGTCTGGGCCATGTCACAAACATTGCCAAAAATAAG
93391	I		S	GGTCTCTACACATTCACCGTGGCCACC
93391	P	A	S	CGCGCCGAGGTGCAGGATGTATTGGTACAY
93391	P	C	S	ATGACGTGGCAGACGGCAGGATGTATTGGTACY
93391	T	A	S	TGCCTGTACCAATACATCCTGCAGTGGCCACGGTGAATGTGTAGAGACCAT
93391	T	C	S	TGCCTGTACCAATACATCCTGCCGTGGCCACGGTGAATGTGTAGAGACCAT
93391	IS	[AC]		TAATAGTCCTCCTCATCATGCTTTGTATTTTCCGTAGCTGCCTGTACCAATACATCCTGC[AC]GTGGCCACGGTGAATG TGTAGAGACCATCAATAATTACACTTGCAAGTGTGACCCTGGCT
93399	I		S	TGGACAGCATCGCATCTCACAGCTGGAACT
93399	P	T	S	CGCGCCGAGGACACGAGAGAGCACTTTY
93399	P	C	S	ATGACGTGGCAGACGCACGAGAGAGCACTY
93399	T	T	S	TTCTAAAGTGCTCTCTCGTGTGTTCCAGCTGTGAGATGCGATGCTGTCCACC
93399	T	C	S	TTCTAAAGTGCTCTCTCGTGCGTTCCAGCTGTGAGATGCGATGCTGTCCACC
93399	IS	[TC]		GGTTACCTTGGGAAACGTATTGCTGGAGATGCAAACAAACTTCTAAAGTGCTCTCTCGTG[TC]GTTCCAGCTGTGAGA TGCGATGCTGTCCACCAGCCCCCGAAGGGTTTGGTGAGGTGTGCT
93402	I		A	GCTGGACTCTCCCTCCTGACATTAGCACCATTTA
93402	P	C	A	ATGACGTGGCAGACCTCCTCTGGCTTCGGY
93402	P	T	A	CGCGCCGAGGTTCCTCTGGCTTCGGY
93402	T	C	A	ATTTCCGAAGCCAGAGGAGAAATGGTGCTAATGTCAGGAGGGAGAGTCCAGCAG
93402	T	T	A	ATTTCCGAAGCCAGAGGAAAAATGGTGCTAATGTCAGGAGGGAGAGTCCAGCAG
93402	IS	[CT]		ATTCCCTTGGTAGCTGGACTTTCTGCTGCTGGACTCTCCCTCCTGACATTAGCACCATTT[CT]TCCTCTGGCTTCGGA AATGCTTACGGAAAGGTGAGGAAGTTTATGAATGTACTTCAAAAA
93404	I		A	CAGAGAAGTTCTGGCTGAACACTGGCAACT
93404	P	A	A	CGCGCCGAGGAACAAAGCCAACAGTCAAY
93404	P	G	A	ATGACGTGGCAGACGACAAAGCCAACAGTCAY
93404	T	A	A	TGTTTTGACTGTTGGCTTTGTTGTTGCCAGTGTTCAGCCAGAACTTCTCTGAA
93404	T	G	A	TGTTTTGACTGTTGGCTTTGTCGTTGCCAGTGTTCAGCCAGAACTTCTCTGAA
93404	IS	[AG]		ATTAACTTAGCATGTGTTGAAAAAAAAGTTTCAGAGAAGTTCTGGCTGAACACTGGCAAC[AG]ACAAAGCCAACAGTCA AAACAGAGATGTGATAAGGATCAGAACAGCAGAGGTTCTTTTAA
93405	I		S	ATGGGGATTGAAATAATTGCTGGACTTTTGAGAGATAGAC
93405	P	A	S	CGCGCCGAGGTATATTAAATTGCAAACTGGCAGY
93405	P	T	S	ATGACGTGGCAGACAATATTAAATTGCAAACTGGCAY
93405	T	A	S	ACTACTGCCAGTTTGCAATTTAATATATCTATCTCTCAAAAGTCCAGCAATTATTTCAATCCCCATTT
93405	T	T	S	ACTACTGCCAGTTTGCAATTTAATATTTCTATCTCTCAAAAGTCCAGCAATTATTTCAATCCCCATTT
93405	IS	[AT]		GACTTTAAAACCTAGTTATGTATCAACTGCCCCCACTACTGCCAGTTTGCAATTTAATAT[AT]TCTATCTCTCAAAAGTC CAGCAATTATTTCAATCCCCATTTACAGAAATGGGGCTTGTAG
93406	I		A	CCCATTTACAGAAATGGGGCTTGTAGGAATCAA
93406	P	T	A	CGCGCCGAGGTTGTGAGGGCTAAAGGTY
93406	P	C	A	ATGACGTGGCAGACCTGTGAGGGCTAAAGGTY
93406	T	T	A	ATTGACCTTTAGCCCTCACAATGATTCCTACAAGCCCCATTTCTGTAAATGGGGA
93406	T	C	A	ATTGACCTTTAGCCCTCACAGTGATTCCTACAAGCCCCATTTCTGTAAATGGGGA
93406	IS	[TC]		TCTCAAAAGTCCAGCAATTATTTCAATCCCCATTTACAGAAATGGGGCTTGTAGGAATCA[TC]TGTGAGGGCTAAAGGT CAATAGAAATAAAAGGGAAAAAATTTTTTAAAAAAGGAGGTGTA

Replacement Sheet

FIGURE 129E

SNP	OLIGO	PM	DC	OLIGO_SEQUENCE	GPCO	GPCH	SHORT_GENE_NAME
4031	I		A	TGACAGGTTCTGATTTGCATTTTGCAAGGTTCTGTTGACARTTA			
4031	P	C	A	CGCGCCGAGGCTCACAAAACAGCATCGTGT			
4031	P	T	A	CGCGCCGAGGTTCACAAAACAGCATCGTGT			
4031	T	C	A	TTGCACACGATGCTGTTTTGTGAGAAYTGTCAACAGAACCTTGCAAAATGCAAATCAGAACCTGTCATA			
4031	T	T	A	TTGCACACGATGCTGTTTTGTGAAAAYTGTCAACAGAACCTTGCAAAATGCAAATCAGAACCTGTCATA			
4031	IS	[CT]		AGGAAACAATTTGGAGGCCGTAAGGTATGACAGGTTCTGATTTGCATTTTGCAAGGTTCTGTTGACARTT[CT]TCACAAAACAGCATCGTGTGCAAACACCAA AGACCATCTTCAGTTTGTTTCCAGTCTAAATCTCAAGTTCAATTAGTGNTTATTTGCTGCACAAATAATTAACTACTA	ctg13980	1	
6939	I		A	GCAGGAACCTTCCCCAGGCAGAGCCT			
6939	P	C	A	CGCGCCGAGGCTTCACCGTGACACCAG			
6939	P	A	A	CGCGCCGAGGATTCACCGTGACACCAG			
6939	T	C	A	ATCCCTGGTGTCACGGTGAAGGGCTCTGCCTGGGGAAGGTTCCTGCCG			
6939	T	A	A	ATCCCTGGTGTCACGGTGAATGGCTCTGCCTGGGGAAGGTTCCTGCCG			
6939	IS	[CA]		ACAGAGCACCGGAGGGACCCGCACGGCAGGAACCTTCCCCAGGCAGAGCC[CA]TTCACCGTGACACCAGGGATCCCACAAGGGCCCAGGGCCGCCCCGG CAGA	ctg16586	20	
6962	I		S	CCTGCAGTCCTCTGCCAGCTGCCAA			
6962	P	G	S	CGCGCCGAGGCACCCTTGCCAAGGTG			
6962	P	A	S	CGCGCCGAGGTACCCTTGCCAAGGTGT			
6962	T	G	S	AGTCACACCTTGGCAAGGGTGTGGCAGCTGGCAGAGGACTGCAGGTC			
6962	T	A	S	AGTCACACCTTGGCAAGGGTATGGCAGCTGGCAGAGGACTGCAGGTC			
6962	IS	[GA]		CACATCTCCGAAGGTGGCTCCAGGACTCCAAGTCACACCTTGGCAAGGGT[GA]TGGCAGCTGGCAGAGGACTGCAGGTCCTTGTCAGGCAGAACCTGCCG GGT	ctg16586	20	
6972	I		S	GGCACTCAGTTCCACTAACGAATGATGCCCGTT			
6972	P	C	S	CGCGCCGAGGGTGGACAGACAGAATGATGGY			
6972	P	T	S	CGCGCCGAGGATGGACAGACAGAATGATGGAY			
6972	T	C	S	CCTGTCCATCATTCTGTCTGTCCACACGGGCATCATTCGTTAGTGGAACTGAGTGCCCG			
6972	T	T	S	CCTGTCCATCATTCTGTCTGTCCATACGGGCATCATTCGTTAGTGGAACTGAGTGCCCG			
6972	IS	[CT]		TCACATAAAGCCCACGCATTCATCTGCCTGTCCATCATTCTGTCTGTCCA[CT]ACGGGCATCATTCGTTAGTGGAACTGAGTGCCCGCTGTCGAGCTGACAA G	ctg16586	20	
7035	I		A	TCTCCTAGGCTCTGGTTCATCAGGGTTCATCTTCATCACA			
7035	P	C	A	CGCGCCGAGGCGTCTTGTGGGTGTTGGY			
7035	P	T	A	CGCGCCGAGGTGTCTTGTGGGTGTTGGY			
7035	T	C	A	AACCCCAACACCCACAAGACGGTGATGAAGATGAACCCTGATGAACCAGAGCCTAGGAGATG			
7035	T	T	A	AACCCCAACACCCACAAGACAGTGATGAAGATGAACCCTGATGAACCAGAGCCTAGGAGATG			
7035	IS	[CT]		TTTATTGAGCATCTCCTAGGCTCTGGTTCATCAGGGTTCATCTTCATCAC[CT]GTCTTGTGGGTGTTGGGGTTACCACCTCTGTTGTAGAGATGGACAAGTA C	ctg16586	20	
7051	I		S	GAAGGGAACGAGGGAAAGACAGAATACCCCT			
7051	P	G	S	CGCGCCGAGGCGGCAAAGAGAACAGCAT			
7051	P	C	S	CGCGCCGAGGGGGCAAAGAGAACAGCAT			
7051	T	G	S	ATCCATGCTGTTCTCTTTGCCGGGGGTATTCTGTCTTTCCCTCGTTCCCTTCTT			
7051	T	C	S	ATCCATGCTGTTCTCTTTGCCCGGGGTATTCTGTCTTTCCCTCGTTCCCTTCTT			
7051	IS	[GC]		TACTTACTTCTACCCCAGGGCCTGTGCACATCCATGCTGTTCTCTTTGCC[GC]GGGGTATTCTGTCTTTCCCTCGTTCCCTTCTTTACTCAAAATCCCATATG	ctg14210	12	
7066	I		S	TTTATTTCTCTTGTTTACAAAAGAATTGACATAGGTAAAGGATCAAAAGAA			
7066	P	G	S	CGCGCCGAGGCGGCAGTGACTTTGGTC			
7066	P	A	S	CGCGCCGAGGTGGCAGTGACTTTGGTC			
7066	T	G	S	GAAGGACCAAAGTCACTGCCGTCTTTTGATCCTTTACCTATGTCAATTCTTTTGTAAACAAGAGAAATAAA			
7066	T	A	S	GAAGGACCAAAGTCACTGCCATCTTTTGATCCTTTACCTATGTCAATTCTTTTGTAAACAAGAGAAATAAA			
7066	IS	[GA]		CCTAGTATCTGTTTCTGGAATTTGGTGGGAGAAGGACCAAAGTCACTGCC[GA]TCTTTTGATCCTTTACCTATGTCAATTCTTTTGTAAACAAGAGAAATAAA	ctg14210	12	
7096	I		A	AATACATCTCCACATTTTTTATCAGGATGATTTTTTAAAAAAAGCAGACA			
7096	P	A	A	CGCGCCGAGGACACTCCTCTTTCTTAGCCT			
7096	P	G	A	CGCGCCGAGGGCACTCCTCTTTCTTAGCC			
7096	T	A	A	GTAAAGGCTAAGAAAGAGGAGTGTTGTCTGCTTTTTTTAAAAAATCATCCTGATAAAAAATGTGGAGATGTATT			
7096	T	G	A	GTAAAGGCTAAGAAAGAGGAGTGCTGTCTGCTTTTTTTAAAAAATCATCCTGATAAAAAATGTGGAGATGTATT			
7096	IS	[AG]		AATACATCTCCACATTTTTTATCAGGATGATTTTTTAAAAAAAGCAGACA[AG]CACTCCTCTTTCTTAGCCTTTACAAGGTACCACTAATGATCTCCCTTAAG	ctg14210	12	
7121	I		A	CCAGCAGTGTCCACTATAGGACCCCCTCACAA			
7121	P	T	A	CGCGCCGAGGTAGGGCATGTGGGAGAAG			
7121	P	C	A	CGCGCCGAGGCAGGGCATGTGGGAGA			
7121	T	T	A	CTGGCTTCTCCCACATGCCCTATGTGAGGGGGTCCTATAGTGGACACTGCTGGAT			
7121	T	C	A	CTGGCTTCTCCCACATGCCCTGTGTGAGGGGGTCCTATAGTGGACACTGCTGGAT			
7121	IS	[TC]		AGAGCATGTAGGGTAAGATCCAGCAGTGTCCACTATAGGACCCCCTCACA[TC]AGGGCATGTGGGAGAAGCCAGGCACCCTGGGCTTGAGACAGAGTCAT GCC			
7145	I		A	GCTGCTGATAACGGATGGTGGCTCCAATGCAA			
7145	P	C	A	CGCGCCGAGGCGCAACAGTTGGAGTGAG			
7145	P	T	A	CGCGCCGAGGTGCAACAGTTGGAGTGAG			
7145	T	C	A	AGCACTCACTCCAACTGTTGCGTGCATTGGAGCCACCATCCGTTATCAGCAGCGC			
7145	T	T	A	AGCACTCACTCCAACTGTTGCATGCATTGGAGCCACCATCCGTTATCAGCAGCGC			
7145	IS	[CT]		GAACTGCAAGCTGATGAGCGCTGCTGATAACGGATGGTGGCTCCAATGCA[CT]GCAACAGTTGGAGTGAGTGCTTAACACAGTTAGTGTCCAATCATTAAAG T			
7147	I		A	GTACATGTTTTTCAAAATACAACCCATTCACAGCATTAAAACAACAGATT			
7147	P	INS	A	CGCGCCGAGGGATGTTATAGGCTGAATTACATCCCY			
7147	P	DEL	A	CGCGCCGAGGGGTGTTATAGGCTGAATTACATCCCY			
7147	T	INS	A	GGGAGGGGATGTAATTCAGCCTATAACATCATCTGTTGTTTTAATGCTGTGAATGGGTTGTATTTTGAAAAACATGTAC			
7147	T	DEL	A	GGGAGGGGATGTAATTCAGCCTATAACACATCTGTTGTTTTAATGCTGTGAATGGGTTGTATTTTGAAAAACATGTAC			
7147	IS	[A-]		GTACATGTTTTTCAAAATACAACCCATTCACAGCATTAAAACAACAGATG[A-]TGTTATAGGCTGAATTACATCCCCTCCCCCAACTTCGTATGTTGAAGTTC	ctg22lin4	22	
7151	I		A	ATTTGTAGAAATTTTATGCTTATAATCAGTTGCCTCGAAGGAGTTTTTAAC			
7151	P	T	A	CGCGCCGAGGTGCTCTTTGAAGTTTCTTCAGG			
7151	P	A	A	CGCGCCGAGGAGCTCTTTGAAGTTTCTTCAGG			
7151	T	T	A	AAGACCTGAAGAAACTTCAAAGAGCATTAAAAACTCCTTCGAGGCAACTGATTATAAGCATAAAATTTCTACAAAT			
7151	T	A	A	AAGACCTGAAGAAACTTCAAAGAGCTTTAAAAACTCCTTCGAGGCAACTGATTATAAGCATAAAATTTCTACAAAT			
7151	IS	[TA]		ATTTGTAGAAATTTTATGCTTATAATCAGTTGCCTCGAAGGAGTTTTTAA[TA]GCTCTTTGAAGTTTCTTCAGGTCTTGTCTTTCTTTGTTACCTTGCCGCCC	ctg22lin4	22	
7154	I		A	CTGCTTTTGAAATGCCGGTTAAAAGCTGCCTCACAA			
7154	P	T	A	CGCGCCGAGGTTCCCCTTCCTTTGTTCC			
7154	P	C	A	CGCGCCGAGGCTCCCCTTCCTTTGTTCC			
7154	T	T	A	GAGGGGAACAAAGGAAGGGGAATGTGAGGCAGCTTTTAACCGGCATTTCAAAAGCAGGA			
7154	T	C	A	GAGGGGAACAAAGGAAGGGGAGTGTGAGGCAGCTTTTAACCGGCATTTCAAAAGCAGGA			
7154	IS	[TC]		CCCTGGCCAGGGTTCCTGCTTTTGAAATGCCGGTTAAAAGCTGCCTCACA[TC]TCCCCTTCCTTTGTTCCCCTCAATTGTTTCCTCCCAAGCCCTTCTTCCTC	ctg22lin4	22	
7170	I		S	GGCCCTCACTAGACGCAGATACCCAATCTTGATCTTTA			
7170	P	G	S	CGCGCCGAGGCCAGCCATCAGAAGCATG			
7170	P	A	S	CGCGCCGAGGTCAGCCATCAGAAGCATG			
7170	T	G	S	GGGTCATGCTTCTGATGGCTGGAAAGATCAAGATTGGGTATCTGCGTCTAGTGAGGGCCTC			
7170	T	A	S	GGGTCATGCTTCTGATGGCTGAAAAGATCAAGATTGGGTATCTGCGTCTAGTGAGGGCCTC			

FIGURE 129E

				AGTTTGTAAAGAAAAAAAAGGGTTTATTGGGGTCATGCTTCTGATGGCTG[GA]AAAGATCAAGATTGGGTATCTGCGTCTAGTGAGGGCCTCAGGCTGTCTC		
7170	IS	[GA]		C		
7209	I		A	GGGCTGTGTCCACCATGGCTCCTGTCA		
7209	P	C	A	CGCGCCGAGGCTCCTGCTGCTCCTCT		
7209	P	T	A	CGCGCCGAGGTTCCTGCTGCTCCTCTC		
7209	T	C	A	GTGAGAGAGGAGCAGCAGGAGGACAGGAGCCATGGTGGACACAGCCCTT		
7209	T	T	A	GTGAGAGAGGAGCAGCAGGAAGACAGGAGCCATGGTGGACACAGCCCTT		
				CCACTCCAGCTCTGGACCTCAGAAGGGCTGTGTCCACCATGGCTCCTGTC[CT]TCCTGCTGCTCCTCTCTCACTTCCCAGGTAAGGACAGGCCTCCCACGT		
7209	IS	[CT]		CC	ctg17326	12
7275	I		S	GGGCCCAGGTGCCTTTTATTCCCATCAAACCA		
7275	P	A	S	CGCGCCGAGGTTGGGCGGCCTGG		
7275	P	G	S	CGCGCCGAGGCTGGGCGGCCTGG		
7275	T	A	S	CTCACCAGGCCGCCCAAGGTTTGATGGGAATAAAAGGCACCTGGGCCCAC		
7275	T	G	S	CTCACCAGGCCGCCCAGGGTTTGATGGGAATAAAAGGCACCTGGGCCCAC		
				TCTCTCTGTGAAGTGCGGTTAGCAGCCCCCCTCCCTCACCAGGCCGCCCA[AG]GGTTTGATGGGAATAAAAGGCACCTGGGCCCACTGCTGGACCTGCGG		
7275	IS	[AG]		GTG	ctg17326	12
7306	I		A	GCCTCGGTGCCATCTCTCTACTCCCTTAGAGGTATCT		
7306	P	C	A	CGCGCCGAGGCTGTGGCCTCCTGTCC		
7306	P	A	A	CGCGCCGAGGATGTGGCCTCCTGTCC		
7306	T	C	A	CCCAGGACAGGAGGCCACAGGATACCTCTAAGGGAGTAGAGAGATGGCACCGAGGCCA		
7306	T	A	A	CCCAGGACAGGAGGCCACATGATACCTCTAAGGGAGTAGAGAGATGGCACCGAGGCCA		
				CCCACTGAGGTGTGGCCTCGGTGCCATCTCTCTACTCCCTTAGAGGTATC[CA]TGTGGCCTCCTGTCCTGGGCAGTGGTGGTGACCATGGAGAGGAGAAG		
7306	IS	[CA]		GTA	ctg17326	12
7342	I		A	CCAAGCAGGATAGCAAAGGCTCAGTGACCCCT		
7342	P	C	A	CGCGCCGAGGCACATGTTTAGTATGTCTGGGAATTT		
7342	P	A	A	CGCGCCGAGGAACATGTTTAGTATGTCTGGGAAAATT		
7342	T	C	A	ACCATTTCCCAGACATACTAAACATGTGGGGGTCACTGAGCCTTTGCTATCCTGCTTGGGT		
7342	T	A	A	ACCATTTCCCAGACATACTAAACATGTTGGGGTCACTGAGCCTTTGCTATCCTGCTTGGGT		
				AAAAAAAAAAAAGGGCAACCCAAGCAGGATAGCAAAGGCTCAGTGACCCC[CA]ACATGTTTAGTATGTCTGGGAAATGGTCTGCAGTTTTGAGTCAGGAGAT		
7342	IS	[CA]		G	ctg13206	14
7359	I		A	TTCTATGTGGAGTAAATACTTGATGTTATCAGTGGTGAATGTGTTTTTAGT		
7359	P	A	A	CGCGCCGAGGACCCATTCTATCTACAGCTGT		
7359	P	G	A	CGCGCCGAGGGCCCATTCTATCTACAGCTG		
7359	T	A	A	GGAGACAGCTGTAGATAGAATGGGTCTAAAAACACATTCACCACTGATAACATCAAGTATTTACTCCACATAGAA		
7359	T	G	A	GGAGACAGCTGTAGATAGAATGGGCCTAAAAACACATTCACCACTGATAACATCAAGTATTTACTCCACATAGAA		
				TTCTATGTGGAGTAAATACTTGATGTTATCAGTGGTGAATGTGTTTTTAG[AG]CCCATTCTATCTACAGCTGTCTCCCAAATGGCTGTCAGGCTTTTCCTGGC		
7359	IS	[AG]			ctg13206	14
7366	I		S	ATGAGAAAAACAGCCCCATAAATATGGAACCATAAAAACCTATTTCTGAAT		
7366	P	C	S	CGCGCCGAGGGGAATCGTAAATCAAGGAAGATTAC		
7366	P	T	S	CGCGCCGAGGAGAATCGTAAATCAAGGAAGATTACA		
7366	T	C	S	TGATTGTAATCTTCCTTGATTTACGATTCCTTCAGAAATAGGTTTTTATGGTTCCATATTTATGGGGCTGTTTTTCTCAT		
7366	T	T	S	TGATTGTAATCTTCCTTGATTTACGATTCTTTCAGAAATAGGTTTTTATGGTTCCATATTTATGGGGCTGTTTTTCTCAT		
				GTTTCAAATATTTTCAAATTTTGATTGTAATCTTCCTTGATTTACGATTC[CT]TTCAGAAATAGGTTTTTATGGTTCCATATTTATGGGGCTGTTTTTCTCAT		
7366	IS	[CT]				
7374	I		S	GGCAACCCTTCCATCATTCTATCAACCATGCCACCT		
7374	P	G	S	CGCGCCGAGGCCCTTCTCCCTGCCG		
7374	P	T	S	CGCGCCGAGGACCTTCTCCCTGCCG		
7374	T	G	S	AACTCGGCAGGGAGAAGGGGGTGGCATGGTTGATAGAATGATGGAAGGGTTGCCCA		
7374	T	T	S	AACTCGGCAGGGAGAAGGTGGTGGCATGGTTGATAGAATGATGGAAGGGTTGCCCA		
				GAACTCGGCGCCTGAGCCGGCAGCTGACCACCAACTCGGCAGGGAGAAGG[GT]GGTGGCATGGTTGATAGAATGATGGAAGGGTTGCCCAGTGCACAGG		
7374	IS	[GT]		CTGG	ctg12325	11
7539	I		A	GGCTAACATCCAAACCCCTTTGTATAATCTCCATTGTCTTGCAAGC		
7539	P	T	A	CGCGCCGAGGTGTGATTCCCACCTCCC		
7539	P	G	A	CGCGCCGAGGGGTGATTCCCACCTCCC		
7539	T	T	A	GAATGGGAGGTGGGAATCACACTTGCAAGACAATGGAGATTATACAAAGGGGTTTGGATGTTAGCCAA		
7539	T	G	A	GAATGGGAGGTGGGAATCACCCTTGCAAGACAATGGAGATTATACAAAGGGGTTTGGATGTTAGCCAA		
				CTCTTGGCTAACATCCAAACCCCTTTGTATAATCTCCATTGTCTTGCAAG[TG]GTGATTCCCACCTCCCATTCCAAACCCATTTCCACTCACTCCTCCATTCT		
7539	IS	[TG]			ctg12325	11
7560	I		S	ATTTCCAAATATTTTTGATCCAAGATTGATTGAATCTCAGGATGGGGAACT		
7560	P	C	S	CGCGCCGAGGGCATGGATACAGAGGGCATT		
7560	P	T	S	CGCGCCGAGGACATGGATACAGAGGGCTTTT		
7560	T	C	S	AGTCAGCCCTCTGTATCCATGCGTTCCCCATCCTGAGATTCAATCAATCTTGGATCAAAAATATTTGGAAAT		
7560	T	T	S	AGTCAGCCCTCTGTATCCATGTGTTCCCCATCCTGAGATTCAATCAATCTTGGATCAAAAATATTTGGAAAT		
				TATAGTTTATAATATATATTTACAAATGCAGTCAGCCCTCTGTATCCATG[CT]GTTCCCCATCCTGAGATTCAATCAATCTTGGATCAAAAATATTTGGAAAT		
7560	IS	[CT]			ctg15064	7
7579	I		A	CACCCTCACCTCCAGCGAGCCCCA		
7579	P	C	A	CGCGCCGAGGCTGCCTCCATCACAACTG		
7579	P	T	A	CGCGCCGAGGTTGCCTCCATCACAACTG		
7579	T	C	A	GGGGCAGTTGTGATGGAGGCAGGGGGCTCGCTGGAGGTGAGGGTGGA		
7579	T	T	A	GGGGCAGTTGTGATGGAGGCAAGGGGCTCGCTGGAGGTGAGGGTGGA		
				AGAAAGAGTTGTCCACACTTGACCGTCCACCCTCACCTCCAGCGAGCCCC[CT]TGCCTCCATCACAACTGCCCCCAGGGGTCTAAAATCATCCTCCAGTCC		
7579	IS	[CT]		AT	ctg15064	7
14387	I		A	TTCAGTGCCTCATGTACTGTGTGGGTCTGGTGTAGT		
14387	P	G	A	CGCGCCGAGGGGTTGTCAGATAAAATACAGGATGTY		
14387	P	A	A	CGCGCCGAGGAGTTGTCAGATAAAATACAGGATGTY		
14387	T	G	A	CTGGACATCCTGTATTTTATCTGACAACCCTACACCAGACCCACACAGTACATGAGGCACTGAAGT		
14387	T	A	A	CTGGACATCCTGTATTTTATCTGACAACCTACACCAGACCCACACAGTACATGAGGCACTGAAGT		
				CAAAACAAATCTACTTCAGTGCCTCATGTACTGTGTGGGTCTGGTGTAG[GA]GTTGTCAGATAAAATACAGGATGTCCAGTTATATTTGAATATTAAGTAAAA		
14387	IS	[GA]			ctg15064	7
14389	I		A	GTGAGTTGTGGTTTTTATTCATCGTGTGACTAC		
14389	P	G	A	CGCGCCGAGGGAGTCATTCTGCCTGCCY		
14389	P	T	A	CGCGCCGAGGTAGTCATTCTGCCTGCCCY		
14389	T	G	A	TTTCGGGCAGGCAGAATGACTCTAGTCACACGATGAATAAAAACCACAACTCAC		
14389	T	T	A	TTTCGGGCAGGCAGAATGACTATAGTCACACGATGAATAAAAACCACAACTCAC		
				GTGAGTTGTGGTTTTTATTCATCGTGTGACTA[GT]AGTCATTCTGCCTGCCCGAAAGTTATGTCAGAGAAACCTAGGATTTAGCTGAAGAAATGAAAAAAAA		
14389	IS	[GT]				
14731	I		A	CTTGTAAGTGGCTGGGCTGGGAGACCATCTA		
14731	P	T	A	CGCGCCGAGGTAGGTCTACCTGAGCTTAGTTCY		
14731	P	C	A	CGCGCCGAGGCAGGTCTACCTGAGCTTAGTY		
14731	T	T	A	ATAGGAACTAAGCTCAGGTAGACCTAAGATGGTCTCCCAGCCCAGCCACTTACAAGCC		
14731	T	C	A	ATAGGAACTAAGCTCAGGTAGACCTGAGATGGTCTCCCAGCCCAGCCACTTACAAGCC		
				ATTTGCCCAAGGTCAAATGGCTTGTAAGTGGCTGGGCTGGGAGACCATCT[TC]AGGTCTACCTGAGCTTAGTTCCTATGCTCTATCGATGAAGGAATTCTGC		
14731	IS	[TC]		T	ctg15131	10
14746	I		S	TGGACTCTGAAAATCCTGTGTCCCAGGAAACTGCTT		
14746	P	G	S	CGCGCCGAGGCATTTCTGGGCAAACTGGTY		
14746	P	T	S	CGCGCCGAGGAATTTCTGGGCAAACTGGTY		
14746	T	G	S	CCAAACCAGTTTGCCCAGAAATGAGCAGTTTCCTGGGACACAGGATTTTCAGAGTCCAGA		
14746	T	T	S	CCAAACCAGTTTGCCCAGAAATTAGCAGTTTCCTGGGACACAGGATTTTCAGAGTCCAGA		

FIGURE 129E



				TCTAGCCCTCAAGTTGCAGAGTGATCAGCCAAACCAGTTTGCCCAGAAAT[GT]AGCAGTTTCCTGGGACACAGGATTTTCAGAGTCCAGACAAGGAAAGTCT			
14746 IS	[GT]			T	ctg16263	1	
4167 I			S	GTGGTGTGTTGTGTCTTGTGTATGTATGTGTTGTGTGTGTATT			
4167 P	T		S	CGCGCCGAGGATGACTACTATAATTGAACCTCTACY			
4167 P	C		S	ATGACGTGGCAGACGTGACTACTATAATTGAACCTCTAY			
4167 T	T		S	GACAGTAGAGGTTCAATTATAGTAGTCATATACACACACAACACATACATACACAAGACACAACACACCACAC			
4167 T	C		S	GACAGTAGAGGTTCAATTATAGTAGTCACATACACACACAACACATACATACACAAGACACAACACACCACAC			
				AACATTGCCTGCCTCGGAGGGTGGAGGTGGAAGTGGAATGAAGCCACATGTAACTCCTAGCGCTGTGCCTGAGACAGTAGAGGTTCAATTATAGTAGTCA[			
4167 IS	[TC]			TC]ATACACACACAACACATACATACACAAGACACAACACACCACACACAACACATACATACACCACACACAACACTTACATACACACCACACTCGGCATG			
4266 I			S	GGAGAAGGAGGGCTTCCCGATCACGTCT			
4266 P	C		S	ATGACGTGGCAGACGCTGAGGGAGATCAACA			
4266 P	T		S	CGCGCCGAGGACTGAGGGAGATCAACAC			
4266 T	C		S	GATGGTGTTGATCTCCCTCAGCGACGTGATCGGGAAGCCCTCCTTCTCCTT			
4266 T	T		S	GATGGTGTTGATCTCCCTCAGTGACGTGATCGGGAAGCCCTCCTTCTCCTT			
				AAAGCCTTCCACCCGGGGCCAGGCGTGGTGGGGCCATGCTCACTCTAACGGTGACAATGTTGGGATGCTGGGCCTTGAGGATGGTGTTGATCTCCCTCAG			
				[CT]GACGTGATCGGGAAGCCCTCCTTCTCCTTCTCCATCTTCAGCCGCTTTAGAGCCACAATTTCATCTGTGAAGAAAATACAGACGGCACTGAGAGGCATT			
4266 IS	[CT]			C	ctg2712	15	
4386 I			S	GCTGTTTGACTGTAACATGGCACTTTTATTAACTTGTACCAGCGTAATTATTT			
4386 P	C		S	ATGACGTGGCAGACGTAACAGCATCATTTGATTTTCT			
4386 P	T		S	CGCGCCGAGGATAACAGCATCATTTGATTTTCT			
4386 T	C		S	TCTGAGAAAATCAAATGATGCTGTTACAATAATTACGCTGGTACAAGTTAATAAAAGTGCCATGTTACAGTCAAACAGCTA			
4386 T	T		S	TCTGAGAAAATCAAATGATGCTGTTATAATAATTACGCTGGTACAAGTTAATAAAAGTGCCATGTTACAGTCAAACAGCTA			
				ACTCCTTACTGGTTTTTGGAAAGCAACCAACAGCTAATTCCAACACCATGGGCAGCCCATACAGTCTCTAATTATCTGAGAAAATCAAATGATGCTGTTA[CT]			
4386 IS	[CT]			AATAATTACGCTGGTACAAGTTAATAAAAGTGCCATGTTACAGTCAAACAGCTATGTTGCTATCTATACCATTGAGGGCATAGTTTTAAAAAGTAGTTAT	ctg19030	5	
4543 I			A	CCCAAATGGACTCAGATCTCTCCACTCCCAGAGA			
4543 P	C		A	ATGACGTGGCAGACCTCCCAGTTTCCTCCC			
4543 P	T		A	CGCGCCGAGGTTCCCAGTTTCCTCCC			
4543 T	C		A	GGTTGGGAGGAAACTGGGAGCTCTGGGAGTGGAGAGATCTGAGTCCATTTGGGGT			
4543 T	T		A	GGTTGGGAGGAAACTGGGAACTCTGGGAGTGGAGAGATCTGAGTCCATTTGGGGT			
				GATGTGAGCTTGCAGAGGCATCTGTGAGTACCCACCCCAGACCTCCCCCAGACCCCCATCACAGAGACCCCAAATGGACTCAGATCTCTCCACTCCCAGAG[			
				CT]TCCCAGTTTCCTCCCAACCTAGACTCCATTTCACACAGAGAAGGCCCTGTGGAGCCTGAGAAGGCAAAGGGATCAGAGCCCAGGAGGCATGGTTATTTC			
4543 IS	[CT]			A	ctg13446	1	
4556 I			S	CTCCACTCACCAGCCCCAGGGCT			
4556 P	T		S	CGCGCCGAGGATAGCCATTGGGCCT			
4556 P	C		S	ATGACGTGGCAGACGTAGCCATTGGGCCT			
4556 T	T		S	GCGGAGGCCCAATGGCTATGCCCTGGGGCTGGTGAGTGGAGGG			
4556 T	C		S	GCGGAGGCCCAATGGCTACGCCCTGGGGCTGGTGAGTGGAGGG			
				GCAGTGACGGAGAGCAGGTCAGCCTCCGTCTCAACGGCCACCCGCCAGGAGTGTGGGCCAACGGCAGTGCTCCCCACCCTGAGCGGAGGCCCAATGGCT			
				A[TC]GCCCTGGGGCTGGTGAGTGGAGGGAGTGCCCAAGAGTCCCAGGGGAACACGGGCCTCCCAGACGTGGAGCTCCTTAGCCATGAGCTCAAGGGAGT			
4556 IS	[TC]			GTGCC	ctg13446	1	ADORA2A
4594 I			S	CGCGAGCCCCGTGGTCCACCA			
4594 P	G		S	ATGACGTGGCAGACCGCACACAGACCCCY			
4594 P	A		S	CGCGCCGAGGTGCACACAGACCCCY			
4594 T	G		S	GGGAGGGGTCTGTGTGCGGGTGGACCACGGGGCTCGCGTG			
4594 T	A		S	GGGAGGGGTCTGTGTGCAGGTGGACCACGGGGCTCGCGTG			
				GCACCGGCCAACACGCCTCTGTGCACCTGGGCCAGGTACTTACCAGAGATGGGCAGCTGGGAATTTGGGGCCTGGAGTGAGGGAGGGGTCTGTGTGC[G			
				A]GGTGGACCACGGGGCTCGCGTGCTTGGCAGGCACTGACTCGGTATCCCTTGCCCTTCCTTAGCTGGACTGGTACTCTTGGGTGCCTAATGCACCCTGCA			
4594 IS	[GA]			C	ctg13446	1	
4666 I			A	CCGGATGGAGCGTCCGCAACCCT			
4666 P	G		A	ATGACGTGGCAGACGACAGGCAAGCGCY			
4666 P	C		A	CGCGCCGAGGCACAGGCAAGCGCY			
4666 T	G		A	CCCCGCGCTTGCCTGTCGGGTTGCGGACGCTCCATCCGGCC			
4666 T	C		A	CCCCGCGCTTGCCTGTGGGGTTGCGGACGCTCCATCCGGCC			
				AGTCAACGCCTGCCTCCTCTCGAGCGTCCTCAGCGCAGCCGCCGCCCGCGGAGCCAGCACGAACGAGCCCAGCACCGGCCGGATGGAGCGTCCGCAAC			
				CC[GC]ACAGGCAAGCGCGGGGCGCGGGACGCGGGACGGGCGCCTTTCTCTCCCAACCCTGCTTGCGTCCTAGCCCCACCCCGGGACACTGCCACACAGC			
4666 IS	[GC]			GACAGA	ctg14391	11	
4679 I			A	ACTTTGTTTTAAGAGTAACAGATCACTAGGAGGGTCCTA			
4679 P	T		A	CGCGCCGAGGTCCAGGGCCTCATTCY			
4679 P	C		A	ATGACGTGGCAGACCCCAGGGCCTCATTY			
4679 T	T		A	TCCAGAATGAGGCCCTGGAAGGACCCTCCTAGTGATCTGTTACTCTTAAAACAAAGTAA			
4679 T	C		A	TCCAGAATGAGGCCCTGGGAGGACCCTCCTAGTGATCTGTTACTCTTAAAACAAAGTAA			
				ATTTCATAGCTACCTTTCTCAGAAGCCAAATGCCATCTCCCAACCAAAATCTTAGATGAGTTACTTTGTTTTAAGAGTAACAGATCACTAGGAGGGTCCT[TC]C			
4679 IS	[TC]			CAGGGCCTCATTCTGGAAGGAGAACCAGTGTCTTGGCTAGGAAGGTCCTCCCAGGGCCTCATTCCGGAAGGAGAACCAGTGTCTTGGCTTAGGTGTCTC			F5
4680 I			A	CTTTGCTGCTTGATCTCTTTCTACCTTGGGTCCCTTAA			
4680 P	T		A	CGCGCCGAGGTGCTTAGCATGTTCTTGACY			
4680 P	C		A	ATGACGTGGCAGACCGCTTAGCATGTTCTTGAY			
4680 T	T		A	AAAAGTCAAGAACATGCTAAGCATAAGGGACCCAAGGTAGAAAGAGATCAAGCAGCAAAGCA			
4680 T	C		A	AAAAGTCAAGAACATGCTAAGCGTAAGGGACCCAAGGTAGAAAGAGATCAAGCAGCAAAGCA			
				AGTGTCTTGGCTTAGGTGTCTCCCAACTTTATGTGCTAGTAATTTCATCCAGGAGAACCTGTGCTTTGCTGCTTGATCTCTTTCTACCTTGGGTCCCTTA[TC]			
4680 IS	[TC]			GCTTAGCATGTTCTTGACTTTTGAATTCTCCAGCACCAAGTGAAAGTAGACGTATCCCTGTGACATCTGGCTGTAGAGGATCCTCTATAGGGTCTTCAGA	ctg13206	14	F5
4682 I			S	GTTCCCCACTGAGACACCTCATTGGCAAGAT			
4682 P	T		S	CGCGCCGAGGACTCAGTTCTCAATTCTTCCY			
4682 P	C		S	ATGACGTGGCAGACGCTCAGTTCTCAATTCTTCCY			
4682 T	T		S	CTGTGGAAGAATTGAGAACTGAGTTCTTGCCAATGAGGTGTCTCAGTGGGGAACCA			
4682 T	C		S	CTGTGGAAGAATTGAGAACTGAGCTCTTGCCAATGAGGTGTCTCAGTGGGGAACCA			
				AAGTAGACGTATCCCTGTGACATCTGGCTGTAGAGGATCCTCTATAGGGTCTTCAGAATATGGGCTGGAATGCTCTGCTGTGGAAGAATTGAGAACTGAG[T			
				C]TCTTGCCAATGAGGTGTCTCAGTGGGGAACCAGCTGTGGTGGCTTGTTGGTGAGAAGGGGCTTTCTGAGGTTCTGCAAGGTTATTGACAGTGAACTTAC			
4682 IS	[TC]			T	ctg53	14	F5
4683 I			S	CCCTAGCTCTGGAGAATGGCACTGAATTCGTTTCTTCT			
4683 P	T		S	CGCGCCGAGGAAACACAGATATAATTGTTGGTTCY			
4683 P	C		S	ATGACGTGGCAGACGAACACAGATATAATTGTTGGTTY			
4683 T	T		S	ATTTGAACCAACAATTATATCTGTGTTTGAAGAAACGAATTCAGTGCCATTCTCCAGAGCTAGGGCA			
4683 T	C		S	ATTTGAACCAACAATTATATCTGTGTTCGAAGAAACGAATTCAGTGCCATTCTCCAGAGCTAGGGCA			
				GGTGAGAAGGGGCTTTCTGAGGTTCTGCAAGGTTATTGACAGTGAACTTACTAATATTACTTGGGGAAGAATAATTTGAACCAACAATTATATCTGTGTT[TC]			
4683 IS	[TC]			GAAGAAACGAATTCAGTGCCATTCTCCAGAGCTAGGGCAGTAAGATTGAACTCTTCTTCTTCCTGATTCAATGATGAGTTTCGGAATGACCTGATTCCTA	ctg15944	11	F5
4689 I			A	GGGTCAAAATAACACAAGGAGAGAAAAATGAGAATGAAATATTTAGTAAACTA			
4689 P	T		A	CGCGCCGAGGTTTGTTTTTCTAAAGCAATTTGACY			
4689 P	C		A	ATGACGTGGCAGACCTTGTTTTTCTAAAGCAATTTGACY			
4689 T	T		A	CAATGTCAAATTGCTTTAGAAAAACAAAAGTTTACTAAATATTTCATTCTCATTTTTCTCTCCTTGTGTTATTTTGACCCAG			
4689 T	C		A	CAATGTCAAATTGCTTTAGAAAAACAAGAGTTTACTAAATATTTCATTCTCATTTTTCTCTCCTTGTGTTATTTTGACCCAG			
				TCAAGTATGGGCTGTGGACCACTGCTTGTCTGTGACCTATTGATTACTGGGTCAAAATAACACAAGGAGAGAAAAATGAGAATGAAATATTTAGTAAACT[TC]			
4689 IS	[TC]			TTGTTTTTCTAAAGCAATTTGACATTGCTGTGACTCTAAGCACATGACCAGTGCGTTCATCTCGCTTAACAGAATAAAAAACAAAAGTGTTGCTTAGTGG	ctg22fin4	22	
4866 I			A	CTTGTCTTTGGGGAAAATGGGACCAAGAGGTCCC			

FIGURE 129E

4866 P	T	A	CGCGCCGAGGTGGATAACCTTGGACAGAY			
4866 P	A	A	ATGACGTGGCAGACAGGATAACCTTGGACAGAY			
4866 T	T	A	CTTGTCTGTCCAAGGTTATCCAGGACCTCTTGGTCCCATTTTCCCCAAAGACAAGCA			
4866 T	A	A	CTTGTCTGTCCAAGGTTATCCTGGACCTCTTGGTCCCATTTTCCCCAAAGACAAGCA			
4866 IS	[TA]		AGAGAGAGGTGCCCCAGTGGTCAGTATGCTTGTCTTTGGGGAAAATGGGACCAAGAGGTCC[TA]GGATAACCTTGGACAGACAAGGTTTGCAGAGAGAGAAG TTGGCAAGTGCAGGCTCCTGGG			
4924 I		A	CCAGAGCTCGCTTTACCCCGGGGAATGT			
4924 P	C	A	ATGACGTGGCAGACCAGGTCGGGGCAG			
4924 P	A	A	CGCGCCGAGGAAGGTCGGGGCAG			
4924 T	C	A	CCTACTGCCCCGACCTGCATTCCCCGGGGTAAAGCGAGCTCTGGAG			
4924 T	A	A	CCTACTGCCCCGACCTTCATTCCCCGGGGTAAAGCGAGCTCTGGAG			
4924 IS	[CA]		GACCCAGGACACTACAGTTTCTCTATGCGATCTCCAGAGCTCGCTTTACCCCGGGGAATG[CA]AGGTCGGGGCAGTAGGGAAGCCCCTAGGGATGCAGGG AGGCGGGCGCTGAGGAGTGGAGG	MULTIPLE	MULTIPLE	
4948 I		A	ACAAGACAAAGGGCAGAGCTCATTCTGACCCATA			
4948 P	C	A	ATGACGTGGCAGACCCCTTCCCATCTCTTATCC			
4948 P	T	A	CGCGCCGAGGTCCTTCCCATCTCTTATCC			
4948 T	C	A	TCAGGGATAAGAGATGGGAAGGGATGGGTCAGAATGAGCTCTGCCCTTTGTCTTGTGG			
4948 T	T	A	TCAGGGATAAGAGATGGGAAGGAATGGGTCAGAATGAGCTCTGCCCTTTGTCTTGTGG			
4948 IS	[CT]		TATTGAGTTTCTGTTACTATGGGCCCCACAAGACAAAGGGCAGAGCTCATTCTGACCCAT[CT]CCTTCCCATCTCTTATCCCTGATGTCACTACTGAGCTGG GAATCACAGGAGACTAGAGCA	MULTIPLE	22	
4965 I		A	ACTTCTTTGCCAGCATTGATTTTTCTGAAAGAAAAGGTTTTTTCTGACTCTATTTATCA			
4965 P	T	A	CGCGCCGAGGTATAGTGTTCTGTTCTACAGTAGT			
4965 P	C	A	ATGACGTGGCAGACCATAGTGTTCTGTTCTACAGTAG			
4965 T	T	A	AAGAACTACTGTAGAACAGAACACTATAGATAAATAGAGTCAGAAAAAACCTTTTCTTTCAGAAAAATCAATGCTGGCAAAGAAGTCT			
4965 T	C	A	AAGAACTACTGTAGAACAGAACACTATGGATAAATAGAGTCAGAAAAAACCTTTTCTTTCAGAAAAATCAATGCTGGCAAAGAAGTCT			
4965 IS	[TC]		AGACTTCTTTGCCAGCATTGATTTTTCTGAAAGAAAAGGTTTTTTCTGACTCTATTTATC[TC]ATAGTGTTCTGTTCTACAGTAGTTCTTTCAGATGCTAATGAG ATGTTTCATGGAAAAAAG	MULTIPLE	MULTIPLE	
5040 I		S	GCCTCCACTCAATACCATGTTATACACCCTCTTGT			
5040 P	G	S	CGCGCCGAGGCCTACTGTCAAAGGAGTTTG			
5040 P	C	S	ATGACGTGGCAGACGCTACTGTCAAAGGAGTTT			
5040 T	G	S	TCAACAAACTCCTTTGACAGTAGGCAAGAGGGTGTATAACATGGTATTGAGTGGAGGCAG			
5040 T	C	S	TCAACAAACTCCTTTGACAGTAGCCAAGAGGGTGTATAACATGGTATTGAGTGGAGGCAG			
5040 IS	[GC]		GGAGAATGGTATTCTTTCTCAGGTAAAGAAACTATCTTCAACAAACTCCTTTGACAGTAG[GC]CAAGAGGGTGTATAACATGGTATTGAGTGGAGGCAGAAA TATTAACCTAAACCAGAGCTA	ctg22fin4	22	
5044 I		A	GCTTCATCTAAGTTTCACAACACTGCTCTCATGTCCAGAAAA			
5044 P	C	A	ATGACGTGGCAGACCGCAACTTTACTTCTCACG			
5044 P	T	A	CGCGCCGAGGTGCAACTTTACTTCTCACG			
5044 T	C	A	AGCACGTGAGAAGTAAAGTTGCGTTTCTGGACATGAGAGCAGTGTTGTGAAACTTAGATGAAGCAT			
5044 T	T	A	AGCACGTGAGAAGTAAAGTTGCATTTCTGGACATGAGAGCAGTGTTGTGAAACTTAGATGAAGCAT			
5044 IS	[CT]		CTCGCTGCCTTCTCTATATGCTTCATCTAAGTTTCACAACACTGCTCTCATGTCCAGAAA[CT]GCAACTTTACTTCTCACGTGCTCCTTTTATTTATTTATTTTT TAAACACTACTCAAATGC	ctg22fin4	22	
5064 I		A	GGCTGGGCGGTTTCCGCTCCCA			
5064 P	C	A	ATGACGTGGCAGACCGAGTGGGATTAATAGTGC			
5064 P	T	A	CGCGCCGAGGTGAGTGGGATTAATAGTGC			
5064 T	C	A	AGCCGCACTATTAATCCCACTCGGGGAGCGGAAACCGCCCAGCCCT			
5064 T	T	A	AGCCGCACTATTAATCCCACTCAGGGAGCGGAAACCGCCCAGCCCT			
5064 IS	[CT]		GTGCGCTGCAGGTAAGACAAAGGCCTGGAGCCGGGGGAGGGCTGGGCGGTTTCCGCTCCC[CT]GAGTGGGATTAATAGTGCGGCTCTCGTCCTCAACAG GAGGCTAGCGAAGCGTACCTGGTG	ctg22fin4	22	
5088 I		S	ATCACGGGGCACCCACTGGGCT			
5088 P	C	S	ATGACGTGGCAGACGTGAGGCAGAGCCC			
5088 P	T	S	CGCGCCGAGGATGAGGCAGAGCCC			
5088 T	C	S	CCGCGGGCTCTGCCTCACGCCCAGTGGGTGCCCCGTGATGT			
5088 T	T	S	CCGCGGGCTCTGCCTCATGCCCAGTGGGTGCCCCGTGATGT			
5088 IS	[CT]		CGGGCGAGGGTGGCCTGTGGGCAGGGCTGGAGCTGCCCCACAGCCGCGGGCTCTGCCTCA[CT]GCCCAGTGGGTGCCCCGTGATGTGGCAGGGCTGGC CTTGAGTTTCCTGCTTCTCACGAGC	ctg22fin4	22	
5110 I		A	GCGGGTGGCCAGGCCTGCA			
5110 P	C	A	ATGACGTGGCAGACCCGCCTCATTCGTAC			
5110 P	T	A	CGCGCCGAGGTCGCCTCATTCGTACC			
5110 T	C	A	GGCAGGTACGAATGAGGCGGGCAGGCCTGGCCACCCGCTC			
5110 T	T	A	GGCAGGTACGAATGAGGCGAGCAGGCCTGGCCACCCGCTC			
5110 IS	[CT]		GCACCCTTGATATTTCTTGATTGGTGTTGTGGGGAGGCCGGAGCGGGTGGCCAGGCCTGC[CT]CGCCTCATTCGTACCTGCCCGCCTCCATTGAGCTTGT TGGTCAGCTTCACTTTGCTGAAG	ctg22fin7	22	
5113 I		S	CTCTGATTTGGTACAATTCTTATCTTTAAGTATTTGGTTCTTAACCTAGTATGTT			
5113 P	T	S	CGCGCCGAGGATAAGAATCGCTTAGGAAGAAG			
5113 P	C	S	ATGACGTGGCAGACGTAAGAATCGCTTAGGAAGAA			
5113 T	T	S	TTATCTTCTTCCTAAGCGATTCTTATACATACTAGGTTAAGAACCAAATACTTAAAGATAAGAATTGTACCAAATCAGAGCA			
5113 T	C	S	TTATCTTCTTCCTAAGCGATTCTTACACATACTAGGTTAAGAACCAAATACTTAAAGATAAGAATTGTACCAAATCAGAGCA			
5113 IS	[TC]		AGAAACTCCGTGTGTGAGGCTAAAAAGTTGCATTTTTATCTTCTTCCTAAGCGATTCTTA[TC]ACATACTAGGTTAAGAACCAAATACTTAAAGATAAGAATTG TACCAAATCAGAGCACTTC			
5116 I		S	GAGGACAGCCTGTCCTTTCCTAAATACTCACCCACT			
5116 P	C	S	ATGACGTGGCAGACGAAAGCACAGCCACC			
5116 P	T	S	CGCGCCGAGGAAAAGCACAGCCACC			
5116 T	C	S	GCTCGGTGGCTGTGCTTTCGTGGGTGAGTATTTAGGAAAGGACAGGCTGTCCTCAG			
5116 T	T	S	GCTCGGTGGCTGTGCTTTTGTGGGTGAGTATTTAGGAAAGGACAGGCTGTCCTCAG			
5116 IS	[CT]		GAGCAGCAGTCACGCACACGGATGCTCTGGGCCAGGTAGCCTGCTCGGTGGCTGTGCTTT[CT]GTGGGTGAGTATTTAGGAAAGGACAGGCTGTCCTCAG TGAAGGGTTGTCCTCACTTCAGG			
5128 I		S	CCTTGGGGACCTGTTGATTAATTGAGTGGCCCA			
5128 P	A	S	CGCGCCGAGGTGCCTGCCCCCA			
5128 P	G	S	ATGACGTGGCAGACCGCCTGCCCCC			
5128 T	A	S	CTGCTGGGGGCAGGCAGGGCCACTCAATTAATCAACAGGTCCCCAAGGTC			
5128 T	G	S	CTGCTGGGGGCAGGCGGGGCCACTCAATTAATCAACAGGTCCCCAAGGTC			
5128 IS	[AG]		GAGGGGCTGTCAGCCTGTCTGTGAGGAGGTAGAGTCGGGGGCAGGCTGCTGGGGGCAGGC[AG]GGGCCACTCAATTAATCAACAGGTCCCCAAGGTCGT AGGAGTCGAAGAGATCGCTGATGC			
5129 I		S	GCCCAGGGTTTGAGCTTGCACCCATGT			
5129 P	C	S	ATGACGTGGCAGACGATGGCAGCAGCCA			
5129 P	T	S	CGCGCCGAGGAATGGCAGCAGCCA			
5129 T	C	S	CACGTGGCTGCTGCCATCCATGGGTGCAAGCTCAAACCCTGGGCTG			
5129 T	T	S	CACGTGGCTGCTGCCATTCATGGGTGCAAGCTCAAACCCTGGGCTG			
5129 IS	[CT]		TCTGGGCAGCTGGACACTTACACTTAGTGTGTATGGACAGACGCACGTGGCTGCTGCCAT[CT]CATGGGTGCAAGCTCAAACCCTGGGCTGGCACTGAGA CCAACTCCATCTGGCCTAACTAA	ctg28096	3	
5149 I		A	GTTTCAGCTCCAACAAATCTCAATCTTACCTTCCTTTCAGGATGT			
5149 P	A	A	CGCGCCGAGGAGATTCATAAGAGCCCTTG			
5149 P	G	A	ATGACGTGGCAGACGGATTCATAAGAGCCCTTG			
5149 T	A	A	ACACCAAGGGCTCTTATGAATCTCATCCTGAAAGGAAGGTAAGATTGAGATTTGTTGGAGCTGAAACCT			
5149 T	G	A	ACACCAAGGGCTCTTATGAATCCCATCCTGAAAGGAAGGTAAGATTGAGATTTGTTGGAGCTGAAACCT			
5149 IS	[AG]		TCCCTCTCATACTGAGGTTTCAGCTCCAACAAATCTCAATCTTACCTTCCTTTCAGGATG[AG]GATTCATAAGAGCCCTTGGTGTCTGGAAGCACCAACTGAA CGCAGGCCTTGGATGATGAA			

FIGURE 129E

5153 I		A	CTCCAGTCACTTTTCCTTTAAAGAAAGAGCTCCCTTCATGCT			
5153 P	A	A	CGCGCCGAGGAATTAAAGTATGACTGATTTTACTGG			
5153 P	G	A	ATGACGTGGCAGACGATTAAAGTATGACTGATTTTACTGG			
5153 T	A	A	AATTCCAGTAAAATCAGTCATACTTTAATTGCATGAAGGGAGCTCTTTCTTTAAAGGAAAAGTGACTGGAGAA			
5153 T	G	A	AATTCCAGTAAAATCAGTCATACTTTAATCGCATGAAGGGAGCTCTTTCTTTAAAGGAAAAGTGACTGGAGAA			
5153 IS	[AG]		AAGTCGCAGCTACCATCTTCTCCAGTCACTTTTCCTTTAAAGAAAGAGCTCCCTTCATGC[AG]ATTAAAGTATGACTGATTTTACTGGAATTGGATGTACAGTT ATTTGGGGGCCATTTATCT	ctg15131	10	
5159 I		A	GCTAAGTTCCTGATGTTGCCCACCAGGCTC			
5159 P	T	A	CGCGCCGAGGTTTGCTCTGAGCAGC			
5159 P	A	A	ATGACGTGGCAGACATTGCTCTGAGCAGC			
5159 T	T	A	CAGCGCTGCTCAGAGCAAAAGCCTGGTGGGCAACATCAGGAACTTAGCAA			
5159 T	A	A	CAGCGCTGCTCAGAGCAATAGCCTGGTGGGCAACATCAGGAACTTAGCAA			
5159 IS	[TA]		TAGGGAGCTGGAGACAGCAGAGCCTGGGGTTGCTAAGTTCCTGATGTTGCCCACCAGGCT[TA]TTGCTCTGAGCAGCGCTGCCTCCCAGCTTTCTGGAAC CTTCTGGGACGCCTGGGGTGCAT	ctg13446	1	
5160 I		S	CCAGACACTGCTGTGGGGACTTTACTGCTGTAAAA			
5160 P	G	S	ATGACGTGGCAGACCTCACTCAAGCCTTATAAGTC			
5160 P	A	S	CGCGCCGAGGTTCACTCAAGCCTTATAAGTC			
5160 T	G	S	CTTAGACTTATAAGGCTTGAGTGAGTTTACAGCAGTAAAGTCCCCACAGCAGTGTCTGGCA			
5160 T	A	S	CTTAGACTTATAAGGCTTGAGTGAATTTACAGCAGTAAAGTCCCCACAGCAGTGTCTGGCA			
5160 IS	[GA]		CTATCTGTAAAATAGGGATAATAATGGTACCTATATCTTAGACTTATAAGGCTTGAGTGA[GA]TTTACAGCAGTAAAGTCCCCACAGCAGTGTCTGGCACAGA GGAAGCCCTCAAACATTCAC	ctg13446	1	
5161 I		A	ACTGCCCCACTTCCATGCTGAAGCCAA			
5161 P	C	A	ATGACGTGGCAGACCGCTTGTTCATCTGCA			
5161 P	T	A	CGCGCCGAGGTGCTTGTTCATCTGCAAT			
5161 T	C	A	TGGAATTGCAGATGAACAAGCGTGGCTTCAGCATGGAAGTGGGGCAGTAT			
5161 T	T	A	TGGAATTGCAGATGAACAAGCATGGCTTCAGCATGGAAGTGGGGCAGTAT			
5161 IS	[CT]		AGGAGAGAGATTGAGGGGCAATTAACAAAGATATACTGCCCCACTTCCATGCTGAAGCCA[CT]GCTTGTTCATCTGCAATTCCAAAACTTTGGATGGGTGCA TAACAACCTGTGAATGAAGCA	ctg13980	1	
5162 I		S	GTCAATCCCTGGATTTTTATTGAAACCATTGGAGAAGAGCCATA			
5162 P	G	S	ATGACGTGGCAGACCTCAAATAAATCTGCCAAGTATCY			
5162 P	A	S	CGCGCCGAGGTTCAAATAAATCTGCCAAGTATCY			
5162 T	G	S	CTAGGATACTTGGCAGATTTATTTGAGATGGCTCTTCTCCAATGGTTTCAATAAAAATCCAGGGATTGACGC			
5162 T	A	S	CTAGGATACTTGGCAGATTTATTTGAAATGGCTCTTCTCCAATGGTTTCAATAAAAATCCAGGGATTGACGC			
5162 IS	[GA]		AATGCCCAAAAACTACACAGTGAGTTGCAAAGAGCTAGGATACTTGGCAGATTTATTTGA[GA]ATGGCTCTTCTCCAATGGTTTCAATAAAAATCCAGGGATT GACGCTTCACTGGTAATCCG	ctg19	19	
5165 I		S	CATGCGGTCAGCCCCAAGGTGGGT			
5165 P	G	S	ATGACGTGGCAGACCGTGACCACCCTCAG			
5165 P	T	S	CGCGCCGAGGAGTGACCACCCTCAG			
5165 T	G	S	AGAGCTGAGGGTGGTCACGCCCACCTTGGGGCTGACCGCATGGT			
5165 T	T	S	AGAGCTGAGGGTGGTCACTCCCACCTTGGGGCTGACCGCATGGT			
5165 IS	[GT]		AGCATTACCGGCCAGCTCTCGTCTTAAATTCAGACACTTGCGAGAGCTGAGGGTGGTCAC[GT]CCCACCTTGGGGCTGACCGCATGGTAAGCAGGTGAGG CTGCTCTGCTGGCCAGGGGCCTC	ctg15907	6	
5170 I		A	GCCCAGTGGCCTTCCCTCCCATGA			
5170 P	C	A	ATGACGTGGCAGACCTGGGCCCGCAT			
5170 P	T	A	CGCGCCGAGGTTGGGCCCGCAT			
5170 T	C	A	GTCCATGCGGGCCCAGCATGGGAGGGAAGGCCACTGGGCTT			
5170 T	T	A	GTCCATGCGGGCCCAACATGGGAGGGAAGGCCACTGGGCTT			
5170 IS	[CT]		CATGCGGTGAGTGGGGAAGGGGGGAGCTTGGGGTGAAGCCCAGTGGCCTTCCCTCCCATG[CT]TGGGCCCGCATGGACCAGTCCCCTCCTTGCCCTGGG TCTGGGGTCATGCCCTGCTTGGGC	ctg18037	7	
5195 I		S	GGTCCCTGGGAAGGGGGCCTGAATT			
5195 P	T	S	CGCGCCGAGGAAAGAGATCCCCAAAGTTTG			
5195 P	C	S	ATGACGTGGCAGACGAAGAGATCCCCAAAGTTT			
5195 T	T	S	TCCCCAAACTTTGGGGATCTCTTCATTCAGGCCCCCTTCCCAGGGACCCC			
5195 T	C	S	TCCCCAAACTTTGGGGATCTCTTCATTCAGGCCCCCTTCCCAGGGACCCC			
5195 IS	[TC]		CCTCTCCACAGACACCAACCACCAGTCCCCTAGAAAATCCCCAAACTTTGGGGATCTCTT[TC]ATTCAGGCCCCCTTCCCAGGGACCCCACTACATTCAGTG CTCACCCTCAGGGTCCCCCAA	MULTIPLE	MULTIPLE	
5202 I		A	CTTGAGGCCAGTAGTTCTAGACCAGCCTGACCT			
5202 P	G	A	ATGACGTGGCAGACGCTATGATGAAACCCCATC			
5202 P	A	A	CGCGCCGAGGACTATGATGAAACCCCATC			
5202 T	G	A	TAGAGATGGGGTTTCATCATAGCGGTCAGGCTGGTCTAGAACTACTGGCCTCAAGTG			
5202 T	A	A	TAGAGATGGGGTTTCATCATAGTGGTCAGGCTGGTCTAGAACTACTGGCCTCAAGTG			
5202 IS	[GA]		ACTTTGGGAGGCCAAGGCAGGCAGATCACTTGAGGCCAGTAGTTCTAGACCAGCCTGACC[GA]CTATGATGAAACCCCATCTCTACTAGAAATACAAAAATT AGCCAGGCGTGGTGGTGTGCA	ctg16105	5	
5206 I		A	GCTTGGCTTACAGGGAGCTGCCAATCCT			
5206 P	G	A	ATGACGTGGCAGACGTGATAACCACCAAGCAC			
5206 P	A	A	CGCGCCGAGGATGATAACCACCAAGCAC			
5206 T	G	A	AAACGTGCTTGGTGGTTATCACGGATTGGCAGCTCCCTGTAAGCCAAGCCT			
5206 T	A	A	AAACGTGCTTGGTGGTTATCATGGATTGGCAGCTCCCTGTAAGCCAAGCCT			
5206 IS	[GA]		GGAAATTAACACATATAAAATATTTGGCATGAGGCTTGGCTTACAGGGAGCTGCCAATCC[GA]TGATAACCACCAAGCACGTTTGCCCCTTGGGTAAGACCA GGGTGTGTGTCCTCATCCCTG	ctg16105	5	
5208 I		A	TCCAAGTTAGCCCTCAGGCCTACCTAGGTTAAATCATT			
5208 P	A	A	CGCGCCGAGGATAAAGGTGCCAGGCA			
5208 P	G	A	ATGACGTGGCAGACGTAAAGGTGCCAGGC			
5208 T	A	A	TGACTGCCTGGCACCTTTATATGATTTAACCTAGGTAGGCCTGAGGGCTAACTTGGATA			
5208 T	G	A	TGACTGCCTGGCACCTTTACATGATTTAACCTAGGTAGGCCTGAGGGCTAACTTGGATA			
5208 IS	[AG]		TCCAGCAAATCGTTCTCCCTCTATCCAAGTTAGCCCTCAGGCCTACCTAGGTTAAATCAT[AG]TAAAGGTGCCAGGCAGTCATTCTGCAGACTGTCTTACCAT ATTTGGGCCTCAGTTCCATT	ctg16105	5	
5220 I		S	GCAGTAAAAGAAGCCTGGCCTTTGGAGTCAGAAA			
5220 P	G	S	ATGACGTGGCAGACCAGCAGGGTGACTTG			
5220 P	A	S	CGCGCCGAGGTAGCAGGGTGACTTGG			
5220 T	G	S	GACCCCAAGTCACCCTGCTGTTCTGACTCCAAAGGCCAGGCTTCTTTTACTGCAC			
5220 T	A	S	GACCCCAAGTCACCCTGCTATTCTGACTCCAAAGGCCAGGCTTCTTTTACTGCAC			
5220 IS	[GA]		ATCCTCATCTTACAGAGAAGGAAATGGGGTGCTCTGGGTCTGACCCCAAGTCACCCTGCT[GA]TTCTGACTCCAAAGGCCAGGCTTCTTTTACTGCACCATG ATGTTCTTATCTATATACAGC	ctg16105	5	
5222 I		A	CCATAAAAGCCTCCAAGCCACGTGTAGATGTGAGAA			
5222 P	C	A	ATGACGTGGCAGACCACATTTGACAGAACATTTCAA			
5222 P	T	A	CGCGCCGAGGTACATTTGACAGAACATTTCAAC			
5222 T	C	A	ATGAGTTGAAATGTTCTGTCAAATGTGTCTCACATCTACACGTGGCTTGGAGGCTTTTATGGGG			
5222 T	T	A	ATGAGTTGAAATGTTCTGTCAAATGTATCTCACATCTACACGTGGCTTGGAGGCTTTTATGGGG			
5222 IS	[CT]		ATTTCTTTTCTACCTGGACAGGGCCCCATAAAAGCCTCCAAGCCACGTGTAGATGTGAGA[CT]ACATTTGACAGAACATTTCAACTCATAGCTTATAATGATG CCATTTCTCCAGCTGTGCAA	ctg16105	5	TGFBI
5257 I		A	CAGATCCCGCCCCAACAATGCTCCACA			
5257 P	C	A	ATGACGTGGCAGACCCACTCTGGTTGTTCC			
5257 P	T	A	CGCGCCGAGGTCACTCTGGTTGTTCCG			
5257 T	C	A	GACGCGGAACAACCAGAGTGGGTGGAGCATTGTTGGGGCGGGATCTGGG			
5257 T	T	A	GACGCGGAACAACCAGAGTGAGTGGAGCATTGTTGGGGCGGGATCTGGG			
5257 IS	[CT]		TCCCAGCTCCGCCTAAATGCTATTCCAAGATGCCCAGATCCCGCCCCAACAATGCTCCAC[CT]CACTCTGGTTGTTCCGCGTCTAGGGTCCCACCCTCAACC TCCCGTAGATACAGGCGAGGG	ctg2712	15	
5276 I		A	GGGAAGCTGGTACCAACAGCCCCAGATT			

FIGURE 129E

5276 P	G	A	ATGACGTGGCAGACGCCTCCCCGAAAGG			
5276 P	A	A	CGCGCCGAGGACCTCCCCGAAAGG			
5276 T	G	A	TTCCCCTTTCGGGGAGGCATCTGGGGCTGTTGGTACCAGCTTCCCTC			
5276 T	A	A	TTCCCCTTTCGGGGAGGTATCTGGGGCTGTTGGTACCAGCTTCCCTC			
5276 IS	[GA]		TTCTCTCCTCCAGGAGCAGAACCCTGCTGGAGAGGGAAGCTGGTACCAACAGCCCCAGAT[GA]CCTCCCCGAAAGGGGAAGGACCCCAAAGGAGTGGGCC ACTCACGGACTCATGGCGGTAAA			
5361 I		A	GGGTGCTTGTTGGCTGGGGTGATGTC			
5361 P	A	A	CGCGCCGAGGACCTCCAGAAGCTACAG			
5361 P	T	A	ATGACGTGGCAGACTCCTCCAGAAGCTACAG			
5361 T	A	A	TCAGCTGTAGCTTCTGGAGGTACATCACCCCAGCCAACAAGCACCCAA			
5361 T	T	A	TCAGCTGTAGCTTCTGGAGGAACATCACCCCAGCCAACAAGCACCCAA			
5361 IS	[AT]		TGACATGAGCGGGGTAGGTATTCCCCCAGAGTTTTGGGTGCTTGTTGGCTGGGGTGATGT[AT]CCTCCAGAAGCTACAGCTGACATTATCAGTGAGGATAT TGCTTCAGAGTCCGTGCCTGAC	ctg13284	10	
5362 I		S	GTTGGAAGCTCTAACCAGGGAGCTTGGCTGA			
5362 P	G	S	ATGACGTGGCAGACCCATATGTTGCCCTTGC			
5362 P	A	S	CGCGCCGAGGTCATATGTTGCCCTTGC			
5362 T	G	S	TCCTGCAAGGGCAACATATGGCAGCCAAGCTCCCTGGTTAGAGCTTCCAACAA			
5362 T	A	S	TCCTGCAAGGGCAACATATGACAGCCAAGCTCCCTGGTTAGAGCTTCCAACAA			
5362 IS	[GA]		TCCCAGAGGAGGACTTCCGGAGGAGATGGAGGAATGTTCTTCCTGCAAGGGCAACATATG[GA]CAGCCAAGCTCCCTGGTTAGAGCTTCCAACAACCTCTC GGTGCCCAGTTATGGGGGATTT	ctg15749	X	
5369 I		S	GCTCCCCCGGGCCTGCGA			
5369 P	G	S	ATGACGTGGCAGACCGTCGGGAAGAGGGY			
5369 P	A	S	CGCGCCGAGGTGTCGGGAAGAGGGY			
5369 T	G	S	TGTGCCCTCTTCCCGACGCGCAGGCCCGGGGGAGCCC			
5369 T	A	S	TGTGCCCTCTTCCCGACACGCAGGCCCGGGGGAGCCC			
5369 IS	[GA]		GGGGGAGTCGAGGTAGGGGTCCCAACTGTCCCCCAGGTATCGGTGTGCCCTCTTCCCGAC[GA]CGCAGGCCCGGGGGAGCCCCGGACCCCGCATCCCC CAGGGCGCGGAAACTGGCGAGGCCC	ctg14583	1	
5377 I		S	GCTCAATTTCAAACTGCCTGTGATCCACTCGGTCT			
5377 P	C	S	ATGACGTGGCAGACGAGGAAGGCTTTCCGTY			
5377 P	T	S	CGCGCCGAGGAAGGAAGGCTTTCCGTY			
5377 T	C	S	TTGAACGGAAAGCCTTCCTCGACCGAGTGGATCACAGGCAGTTTGAAATTGAGCGA			
5377 T	T	S	TTGAACGGAAAGCCTTCCTTGACCGAGTGGATCACAGGCAGTTTGAAATTGAGCGA			
5377 IS	[CT]		TGGATTCTACTGACAAACACTGTTTTCATCTTCTAGGTACATTGAACGGAAAGCCTTCCT[CT]GACCGAGTGGATCACAGGCAGTTTGAAATTGAGCGAGAT CTCAGGCTGAGCAAAATGAAA	ctg14583	1	
5379 I		A	GATTCAGGAAGGTGAGTGCTAGAAACAGAACCAAGACTAAGAAA			
5379 P	C	A	ATGACGTGGCAGACCCCATCATGGCCTCC			
5379 P	T	A	CGCGCCGAGGTCCATCATGGCCTCC			
5379 T	C	A	GAAGGGAGGCCATGATGGGTTCTTAGTCTTGGTTCTGTTTCTAGCACTCACCTTCCTGAATCTG			
5379 T	T	A	GAAGGGAGGCCATGATGGATTCTTAGTCTTGGTTCTGTTTCTAGCACTCACCTTCCTGAATCTG			
5379 IS	[CT]		GAAGAGGGGACAGTGCAGATTCAGGAAGGTGAGTGCTAGAAACAGAACCAAGACTAAGAA[CT]CCATCATGGCCTCCCTTCCTTCCCCACCAGACCATCTC CTGTGCATCCTCCTCCTTCCGT	ctg14583	1	
5381 I		S	CTCGCACAGTAATACACAGCCGTGTCCTCGC			
5381 P	C	S	ATGACGTGGCAGACGCTCTCAGGCTGTTCA			
5381 P	A	S	CGCGCCGAGGTCTCTCAGGCTGTTCATT			
5381 T	C	S	TGCAAATGAACAGCCTGAGAGCCGAGGACACGGCTGTGTATTACTGTGCGAGAG			
5381 T	A	S	TGCAAATGAACAGCCTGAGAGACGAGGACACGGCTGTGTATTACTGTGCGAGAG			
5381 IS	[CA]		TCACCATCTCCAGAGACAACGCCAAGAACTCACTGTATCTGCAAATGAACAGCCTGAGAG[CA]CGAGGACACGGCTGTGTATTACTGTGCGAGAGACACAG TGAGGGGAGGTCAGTGTGAGCC	ctg16775	19	
5399 I		A	CTCTTGGTCAAGTTCTCCTTGCCCAGTGATACAATACAA			
5399 P	T	A	CGCGCCGAGGTACTATTTGTTCCCAGGCTY			
5399 P	C	A	ATGACGTGGCAGACCACTATTTGTTCCCAGGCY			
5399 T	T	A	AAATAGCCTGGGAACAAATAGTATGTATTGTATCACTGGGCAAGGAGAACTTGACCAAGAGGT			
5399 T	C	A	AAATAGCCTGGGAACAAATAGTGTGTATTGTATCACTGGGCAAGGAGAACTTGACCAAGAGGT			
5399 IS	[TC]		CTACCCTACCTGCTGGAACCACCTCTTGGTCAAGTTCTCCTTGCCCAGTGATACAATACA[TC]ACTATTTGTTCCCAGGCTATTTCGTTCCCCAACTGGTCCA AGGGTCTGAGGGTAAGAAAC			
5416 I		A	CAACCTCTGCCTCCCGGGTTCAAGCT			
5416 P	G	A	ATGACGTGGCAGACGATTCTCTTGCCTCAGC			
5416 P	A	A	CGCGCCGAGGAATTCTCTTGCCTCAGC			
5416 T	G	A	GGAGGCTGAGGCAAGAGAATCGCTTGAACCCGGGAGGCAGAGGTTGCA			
5416 T	A	A	GGAGGCTGAGGCAAGAGAATTGCTTGAACCCGGGAGGCAGAGGTTGCA			
5416 IS	[GA]		AAGCTGGAGTGCAGGGGCACGATCTCGGCTCACTGCAACCTCTGCCTCCCGGGTTCAAGC[GA]ATTCTCTTGCCTCAGCCTCCCGAGTAGCTGGGGTTAC AGGCACCCGCCACCACACCCAGC			
5438 I		S	CAGTGCATTATGGAACTTTTTAACCTTTTATGGAAACTTTACAAAACCAGCAA			
5438 P	A	S	CGCGCCGAGGTAAAATGGAAGAGTCAAGTTTCT			
5438 P	G	S	ATGACGTGGCAGACCAAAATGGAAGAGTCAAGTTTC			
5438 T	A	S	TAATAGAAACTTGACTCTTCCATTTTATGCTGGTTTTGTAAAGTTTCCATAAAAGGTTAAAAAGTTCCATAATGCACTGTT			
5438 T	G	S	TAATAGAAACTTGACTCTTCCATTTTGTGCTGGTTTTGTAAAGTTTCCATAAAAGGTTAAAAAGTTCCATAATGCACTGTT			
5438 IS	[AG]		TTACTTAATATCTTTTGTAAATGCTTTATGTAAATAATAGAAACTTGACTCTTCCATTTT[AG]TGCTGGTTTTGTAAAGTTTCCATAAAAGGTTAAAAAGTTCCAT AATGCACTGTTTCCTTA	ctg2712	15	
5451 I		A	CAAACAGAATGGGGGCATGAACTTTTTTCCCCATAACTTA			
5451 P	C	A	ATGACGTGGCAGACCAATAAACAACAGTTTTAGCCT			
5451 P	T	A	CGCGCCGAGGTAATAAACAACAGTTTTAGCCTC			
5451 T	C	A	TACTGAGGCTAAAACTGTTGTTTATTGAAGTTATGGGGAAAAAAGTTCATGCCCCCATTCTGTTTGTT			
5451 T	T	A	TACTGAGGCTAAAACTGTTGTTTATTAAAGTTATGGGGAAAAAAGTTCATGCCCCCATTCTGTTTGTT			
5451 IS	[CT]		ACTCTTCAAATGAGGTTGGAACAAACAGAATGGGGGCATGAACTTTTTTCCCCATAACTT[CT]AATAAACAACAGTTTTAGCCTCAGTAGGCTTTATGCAAGC CTTCAACATCTTTTTCTAGG	ctg2712	15	
5516 I		S	GGCTGGTCTTAAACTCCTGGCCTTAAGCAACCA			
5516 P	G	S	ATGACGTGGCAGACCTCCTGCCTCAGCCY			
5516 P	A	S	CGCGCCGAGGTTCCTGCCTCAGCCY			
5516 T	G	S	GGGAGGCTGAGGCAGGAGGGTTGCTTAAGGCCAGGAGTTTAAGACCAGCCTA			
5516 T	A	S	GGGAGGCTGAGGCAGGAAGGTTGCTTAAGGCCAGGAGTTTAAGACCAGCCTA			
5516 IS	[GA]		GAAGGCCACGTGCAGTGGCTTACATCTGCAATCTCAGTGCTTTGGGAGGCTGAGGCAGGA[GA]GGTTGCTTAAGGCCAGGAGTTTAAGACCAGCCTAGGC AACATAGTGAGACTCCGTTTCTG	ctg2712	15	
5517 I		A	GTGTTCCTGTCCCCTGTAGTGTTTTTGTTATTAGACCCTTTTTA			
5517 P	T	A	CGCGCCGAGGTCTCCTTGGTTTAGGAATGY			
5517 P	C	A	ATGACGTGGCAGACCCTCCTTGGTTTAGGAATGY			
5517 T	T	A	CCCCCATTCCTAAACCAAGGAGAAAAAAGGGTCTAATAACAAAAACACTACAGGGGACAGGAACACGG			
5517 T	C	A	CCCCCATTCCTAAACCAAGGAGGAAAAAGGGTCTAATAACAAAAACACTACAGGGGACAGGAACACGG			
5517 IS	[TC]		ATTTGACCCCCGGCTCCGTGTTCCTGTCCCCTGTAGTGTTTTTGTTATTAGACCCTTTTT[TC]CTCCTTGGTTTAGGAATGGGGGCCCCAGGGCCACCCTTG TCCAGGCTCCCTCTACCGTAG			
5536 I		A	CTGCACCACCCACTCCTGGTTGCCT			
5536 P	A	A	CGCGCCGAGGATTGAGCACCGTCTCGY			
5536 P	G	A	ATGACGTGGCAGACGTTGAGCACCGTCTCY			
5536 T	A	A	CGGGCGAGACGGTGCTCAATGGCAACCAGGAGTGGGTGGTGCAGGC			
5536 T	G	A	CGGGCGAGACGGTGCTCAACGGCAACCAGGAGTGGGTGGTGCAGGC			
5536 IS	[AG]		ACTCTGCCGGATGGCTGCGGTCAGCGGGAGGTCCGCCTGCACCACCCACTCCTGGTTGCC[AG]TTGAGCACCGTCTCGCCCGGCATGGCGAGGGAATGC CGCTTGGGGACGTCCTTGGTCAGC	ctg_na	NA	
5539 I		A	TTGACCGACCTCTGACCCAGAGCTT			
5539 P	A	A	CGCGCCGAGGAGCCCCTACTTCACCY			

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FIGURE 129E

5539 P	G	A	ATGACGTGGCAGACGGCCCCTACTTCACCY				
5539 T	A	A	TTAGGGTGAAGTAGGGGCTAGCTCTGGGTCAGAGGTCGGTCAATA				
5539 T	G	A	TTAGGGTGAAGTAGGGGCCAGCTCTGGGTCAGAGGTCGGTCAATA				
5539 IS	[AG]		TTCACCTGGGCTGAACCAGAGTGGGGAGGAATAATATTGACCGACCTCTGACCCAGAGCT[AG]GCCCCTACTTCACCCTAAAGGAGGCTTCCCACCACATA CTTACCTAGCCGATTCCGGGAC	ctg_na	NA	
5543 I		S	TCTGTCACACTGTGCCTAAGAACTCCAAACGGAAAGA				
5543 P	G	S	ATGACGTGGCAGACCGCCAAATGGCTGTTY				
5543 P	A	S	CGCGCCGAGGTGCCAAATGGCTGTTTAAY				
5543 T	G	S	CTTTTTAAACAGCCATTTGGCGCTTTCCGTTTGGAGTTCTTAGGCACAGTGTGACAGAGT				
5543 T	A	S	CTTTTTAAACAGCCATTTGGCACTTTCCGTTTGGAGTTCTTAGGCACAGTGTGACAGAGT				
5543 IS	[GA]		GGGTTCTATTCTGAAGGCTATTCAATTTGATTTGGGGCACTTTTTAAACAGCCATTTGGC[GA]CTTTCCGTTTGGAGTTCTTAGGCACAGTGTGACAGAGTCA GCTTGGTGAGCCCTTCCCCA	ctg_na	NA	SIAT8C
5556 I		S	CCCAGTCCTGGCGGGCTCCAT				
5556 P	T	S	CGCGCCGAGGATGAAGCCCCATCACCY				
5556 P	G	S	ATGACGTGGCAGACCTGAAGCCCCATCACY				
5556 T	T	S	TGGGGGTGATGGGGCTTCATTGGAGCCCGCCAGGACTGGGGA				
5556 T	G	S	TGGGGGTGATGGGGCTTCAGTGGAGCCCGCCAGGACTGGGGA				
5556 IS	[TG]		TCCCAAACCTCGCCCCTTCTCCCTGCAGGCACTGGCAGAGCTGGGGGTGATGGGGCTTCA[TG]TGGAGCCCGCCAGGACTGGGGACACAAGCCTAGGCC TGTACCGTCTGCAGCCCCATCTCC	ctg15972	16	
5557 I		S	CAGAAGGAGCTCCAGGCTCCTCCCCT				
5557 P	T	S	CGCGCCGAGGATGTGGTTCACCCGCY				
5557 P	C	S	ATGACGTGGCAGACGTGTGGTTCACCCGY				
5557 T	T	S	GATGGCGGGTGAACCACATGGGGAGGAGCCTGGAGCTCCTTCTGCA				
5557 T	C	S	GATGGCGGGTGAACCACACGGGGAGGAGCCTGGAGCTCCTTCTGCA				
5557 IS	[TC]		GCGGAAGGTCTCGGGGAGTCGAAGGCAGAGGGGAAAGGACGGGATGGCGGGTGAACCACA[TC]GGGGAGGAGCCTGGAGCTCCTTCTGCATTTTCTTAG GAAGTGCTGCAGGGACCCACTGGA	ctg14840	6	
5598 I		S	GATGGCAGTACTGGGGTGAGGTGGAGAGAATTTTAATA				
5598 P	G	S	ATGACGTGGCAGACCTCTTGAAGCAAATTCATCACY				
5598 P	A	S	CGCGCCGAGGTTCTTGAAGCAAATTCATCACY				
5598 T	G	S	AGCAGTGATGAATTTGCTTCAAGAGATTAAAATTCTCTCCACCTCACCCCAGTACTGCCATCCC				
5598 T	A	S	AGCAGTGATGAATTTGCTTCAAGAAATTAAAATTCTCTCCACCTCACCCCAGTACTGCCATCCC				
5598 IS	[GA]		TTTTGGTAATAAGAGATTTATTTGGTTTTAATTATTAGCAGTGATGAATTTGCTTCAAGA[GA]ATTAAAATTCTCTCCACCTCACCCCAGTACTGCCATCCCTT CACCTAACACTCTCTCCCT	ctg14840	6	
5630 I		A	GCACCTCGGCATCCTGTGGCCAA				
5630 P	T	A	CGCGCCGAGGTGTCTCCATAGGTCCGY				
5630 P	C	A	ATGACGTGGCAGACCGTCTCCATAGGTCCGY				
5630 T	T	A	AGACCGGACCTATGGAGACATGGCCACAGGATGCCGAGGTGCAT				
5630 T	C	A	AGACCGGACCTATGGAGACGTGGCCACAGGATGCCGAGGTGCAT				
5630 IS	[TC]		GGCCCCCAGAGCCTCAGCGTCCCCCAGGCTTTGAGCATGCACCTCGGCATCCTGTGGCCA[TC]GTCTCCATAGGTCCGGTCTGGACACTGGCGGATGGCT GCAGCGCTGCACATCAGGCCACC	ctg14840	6	
5634 I		A	CATCGTCTCGTGGAAATCCTCACAGCACTGTGT				
5634 P	A	A	CGCGCCGAGGAAATAGGTACCATTTTTATGCCY				
5634 P	C	A	ATGACGTGGCAGACCAATAGGTACCATTTTTATGCCY				
5634 T	A	A	AACGGGCATAAAAATGGTACCTATTTCACAGTGCTGTGAGGATTTCCACGAGACGATGCT				
5634 T	C	A	AACGGGCATAAAAATGGTACCTATTGCACAGTGCTGTGAGGATTTCCACGAGACGATGCT				
5634 IS	[AC]		GACGGCGGTTATGCTAAGCCCTGGTGAGCATCGTCTCGTGGAAATCCTCACAGCACTGTG[AC]AATAGGTACCATTTTTATGCCCGTTTTATAAAAAGGGAA ACTTGGGCTCAGAGAAGTTAA	ctg3461	17	
5639 I		S	CCACCTCCTCACCTGGCAGACGAAAGGT				
5639 P	T	S	CGCGCCGAGGAAACTGGTTCCTCCCAY				
5639 P	C	S	ATGACGTGGCAGACGAACTGGTTCCTCCCAY				
5639 T	T	S	ACATTGGGAGGAACCAGTTTCCTTTCGTCTGCCAGGTGAGGAGGTGGTG				
5639 T	C	S	ACATTGGGAGGAACCAGTTCCCTTTCGTCTGCCAGGTGAGGAGGTGGTG				
5639 IS	[TC]		GGCTTTAGCTGCTGTCTTCCCCCTGGGGCTCGATGGTTACCACATTGGGAGGAACCAGTT[TC]CCTTTCGTCTGCCAGGTGAGGAGGTGGTGGGCAAATTC CTTACAGGATGTGACTCTCCCA	ctg14489	1	
5641 I		S	GGAGAAGGGGGACATCATGACATTTTGCAACGCA				
5641 P	G	S	ATGACGTGGCAGACCTCTAGCACTGCAAACAGY				
5641 P	A	S	CGCGCCGAGGTTCTAGCACTGCAAACAGY				
5641 T	G	S	ATCTCTGTTTGCAGTGCTAGAGGCGTTGCAAAATGTCATGATGTCCCCCTTCTCCGA				
5641 T	A	S	ATCTCTGTTTGCAGTGCTAGAAGCGTTGCAAAATGTCATGATGTCCCCCTTCTCCGA				
5641 IS	[GA]		GTTCATGGCACAGAGGAATTAATGAATAAATTACAGCTCATCTCTGTTTGCAGTGCTAGA[GA]GCGTTGCAAAATGTCATGATGTCCCCCTTCTCCGATTCCC CTTTCTGGATCTGGAGAAAA	ctg13297	17	
5653 I		S	GCAACTACTGAGAGCCCCAGACAAACCTGAAAAATGTAGA				
5653 P	A	S	CGCGCCGAGGTTCGTTTTTCTGGAAGTTTCY				
5653 P	G	S	ATGACGTGGCAGACCTCGTTTTTCTGGAAGTTTCY				
5653 T	A	S	TTATGAAACTTCCAGAAAAACGAACTACATTTTTCAGGTTTGTCTGGGGCTCTCAGTAGTTGCCC				
5653 T	G	S	TTATGAAACTTCCAGAAAAACGAGCTACATTTTTCAGGTTTGTCTGGGGCTCTCAGTAGTTGCCC				
5653 IS	[AG]		GGCAGGAATGGGCTATGTGAATGAAAAAAGGTATCCGTTATGAAACTTCCAGAAAAACGA[AG]CTACATTTTTCAGGTTTGTCTGGGGCTCTCAGTAGTTGC CCAAGGGACGGAGTTTAAACC	ctg22fin4	22	
5686 I		S	CTGGGCTCCCCCACTACGCACCTATT				
5686 P	G	S	CGCGCCGAGGCCTTGCACTCCTCTTCAY				
5686 P	C	S	ATGACGTGGCAGACGCTTGCACTCCTCTTCY				
5686 T	G	S	CTTCTGAAGAGGAGTGCAAGGATAGGTGCGTAGTGGGGGAGCCCAGGG				
5686 T	C	S	CTTCTGAAGAGGAGTGCAAGCATAGGTGCGTAGTGGGGGAGCCCAGGG				
5686 IS	[GC]		GACTCTCTTCTGCAGGTGCATGATGACGATCTTTTGTCTTCTTCTGAAGAGGAGTGCAAG[GC]ATAGGTGCGTAGTGGGGGAGCCCAGGGACGGGCTGGT TCTGGGTCCAGGCTCCTGGCCCA	ctg22fin4	22	
5687 I		S	CCCCTGTCCCTGAGGGCCAAAGTCAC				
5687 P	A	S	CGCGCCGAGGTGACTTTCTGCTCCCCY				
5687 P	C	S	ATGACGTGGCAGACGGACTTTCTGCTCCCCY				
5687 T	A	S	GGGAGGGGAGCAGAAAGTCATGACTTTGGCCCTCAGGGACAGGGGAC				
5687 T	C	S	GGGAGGGGAGCAGAAAGTCCTGACTTTGGCCCTCAGGGACAGGGGAC				
5687 IS	[AC]		TTCGTACTTGTTGCTGTGCTTACTGTTCTTCACGTGCTGTGGGGAGGGGAGCAGAAAGTC[AC]TGACTTTGGCCCTCAGGGACAGGGGACAGGAGTGGAC CAGGACCCAGGCTGTCAGTCAAC	ctg22fin4	22	
5698 I		A	CCTCCTATGGGTTGTCACCAAGCTAGGTGCTATTC				
5698 P	G	A	ATGACGTGGCAGACGGTCATCTGCTCCTGTY				
5698 P	T	A	CGCGCCGAGGTGTCATCTGCTCCTGTTY				
5698 T	G	A	TGTGAACAGGAGCAGATGACCAATAGCACCTAGCTTGGTGACAACCCATAGGAGGTA				
5698 T	T	A	TGTGAACAGGAGCAGATGACCAAATAGCACCTAGCTTGGTGACAACCCATAGGAGGTA				
5698 IS	[GT]		GTGGCCCATGGCATTTTATAGGCATACCTCCTATGGGTTGTCACCAAGCTAGGTGCTATT[GT]GTCATCTGCTCCTGTTCACACCAGAGAACCAGGCTACAA GAGAAAAAGCAGAGGCCAAGA	ctg15907	6	CYP19
5725 I		S	TGCCTGCCTGCAATGTGTTTGTGCACATGA				
5725 P	G	S	ATGACGTGGCAGACCGTGCACATGTGTATGTY				
5725 P	A	S	CGCGCCGAGGTGTGCACATGTGTATGTGY				
5725 T	G	S	TATCCACATACACATGTGCACGCATGTGCACAAACACATTGCAGGCAGGCATG				
5725 T	A	S	TATCCACATACACATGTGCACACATGTGCACAAACACATTGCAGGCAGGCATG				
5725 IS	[GA]		CCTGGCCAGAGAAGCAACACACACGTGCACAGACATGTTTATCCACATACACATGTGCAC[GA]CATGTGCACAAACACATTGCAGGCAGGCATGTTGACGC CTCAGGCAGCGGAGGACCCTGA			USP6
5729 I		A	GCAGTGACTTCTTGACATGTTAATCCTTGTCTTAAAGTTACATTTTCCCTT				
5729 P	G	A	ATGACGTGGCAGACGTCACCACTCCCACCY				
5729 P	A	A	CGCGCCGAGGATCACCACTCCCACCY				

FIGURE 129E

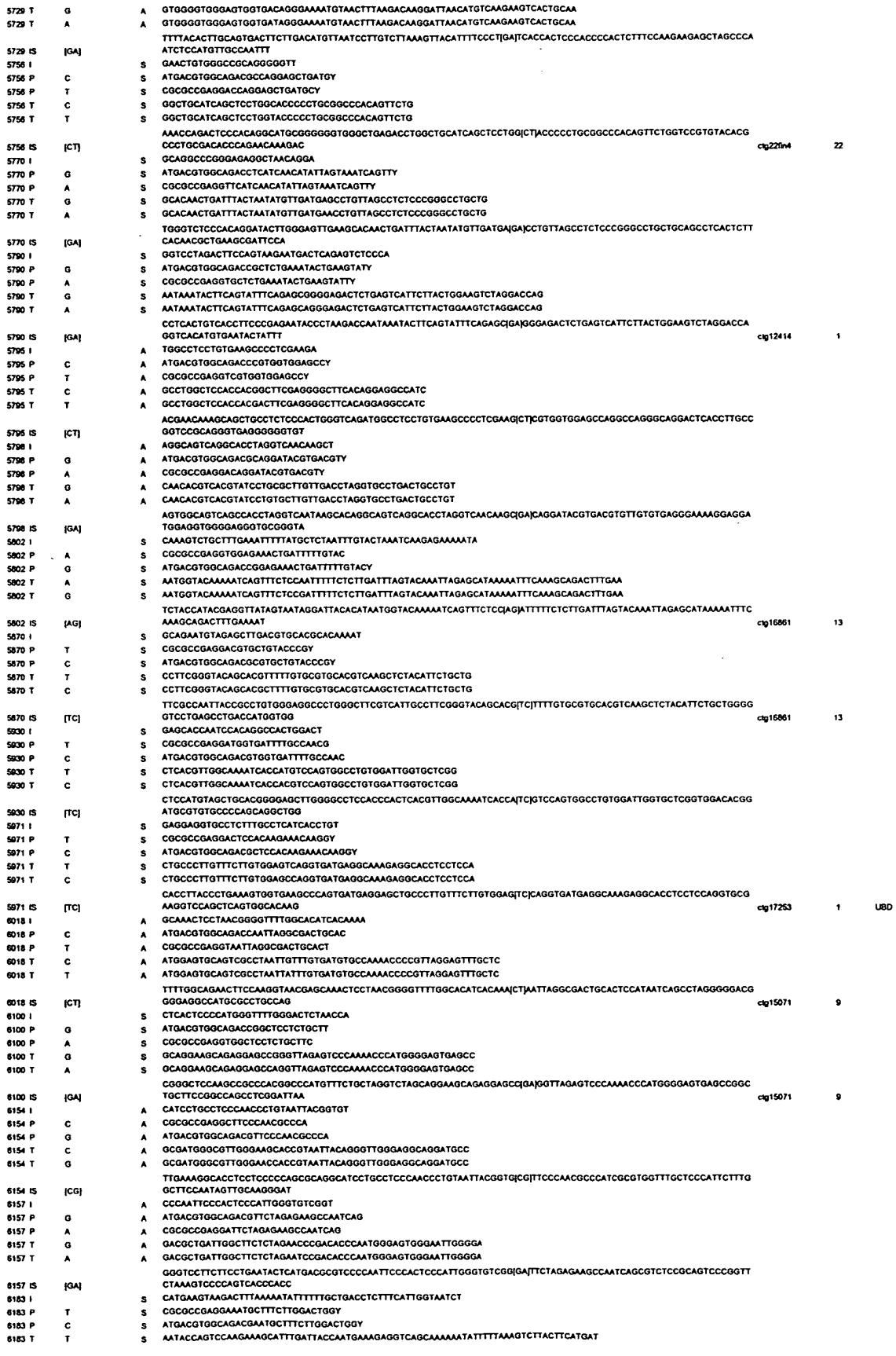
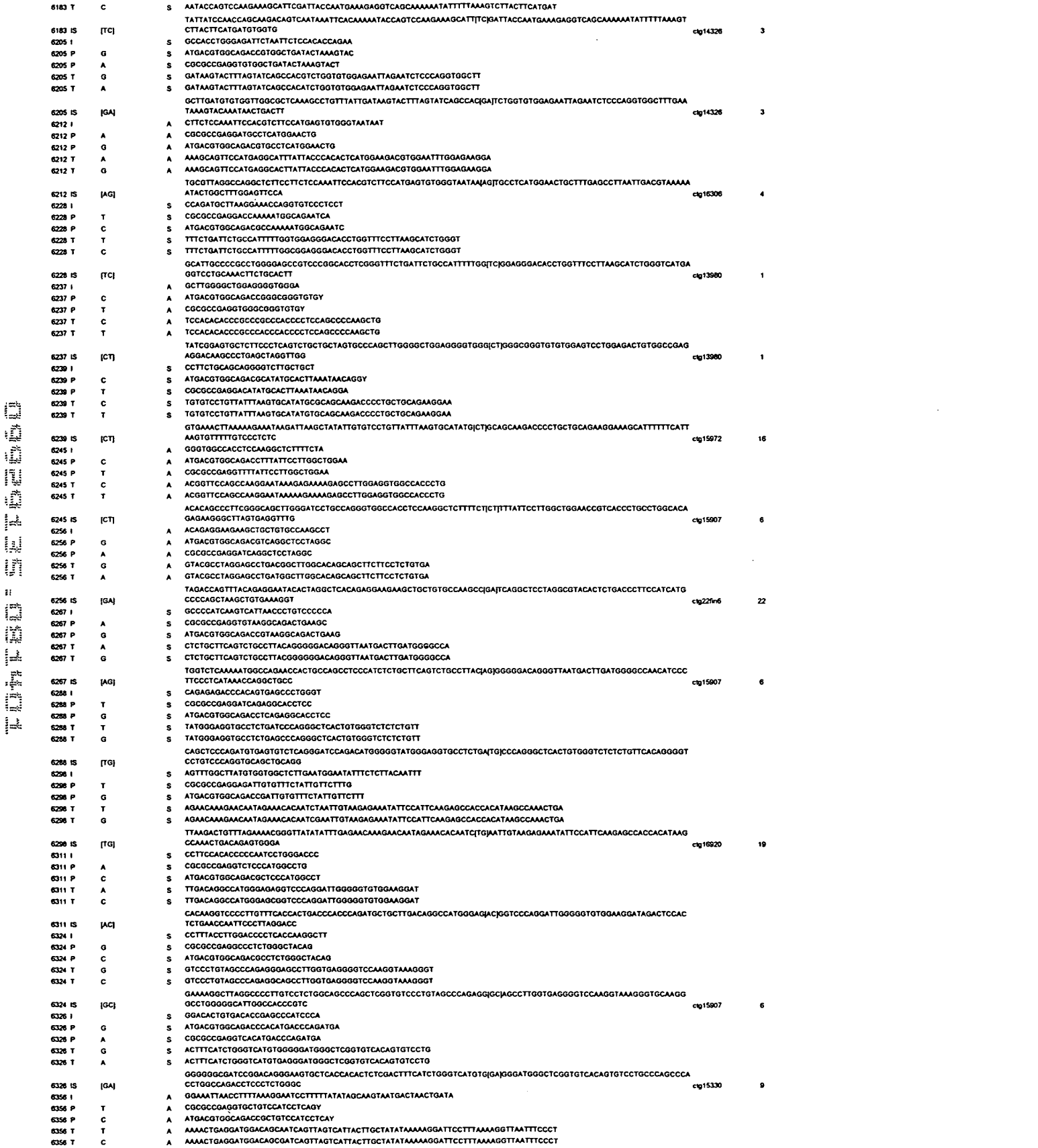

5729 T G A GTGGGGTGGGAGTGGTGACAGGGAAAATGTAACTTTAAGACAAGGATTAACATGTCAAGAAGTCACTGCAA
5729 T A A GTGGGGTGGGAGTGGTGATAGGGAAAATGTAACTTTAAGACAAGGATTAACATGTCAAGAAGTCACTGCAA
TTTTACACTTGCAGTGACTTCTTGACATGTTAATCCTTGTCTTAAAGTTACATTTTCCCT[GA]TCACCACTCCCACCCCACTCTTTCCAAGAAGAGCTAGCCCA
5729 IS [GA] ATCTCCATGTTGCCAATTT
5756 I S GAACTGTGGGCCGCAGGGGGTT
5756 P C S ATGACGTGGCAGACGCCAGGAGCTGATGY
5756 P T S CGCGCCGAGGACCAGGAGCTGATGCY
5756 T C S GGCTGCATCAGCTCCTGGCACCCCCTGCGGCCCACAGTTCTG
5756 T T S GGCTGCATCAGCTCCTGGTACCCCCTGCGGCCCACAGTTCTG
AAACCAGACTCCCACAGGCATGCGGGGGGTGGGCTGAGACCTGGCTGCATCAGCTCCTGG[CT]ACCCCCTGCGGCCCACAGTTCTGGTCCGTGTACACG
5756 IS [CT] CCCTGCGACACCCAGAACAAAGAC ctg22fin4 22
5770 I S GCAGGCCCGGGAGAGGCTAACAGGA
5770 P G S ATGACGTGGCAGACCTCATCAACATATTAGTAAATCAGTTY
5770 P A S CGCGCCGAGGTTCATCAACATATTAGTAAATCAGTTY
5770 T G S GCACAACTGATTTACTAATATGTTGATGAGCCTGTTAGCCTCTCCCGGGCCTGCTG
5770 T A S GCACAACTGATTTACTAATATGTTGATGAACCTGTTAGCCTCTCCCGGGCCTGCTG
TGGGTCTCCCACAGGATACTTGGGAGTTGAAGCACAACTGATTTACTAATATGTTGATGA[GA]CCTGTTAGCCTCTCCCGGGCCTGCTGCAGCCTCACTCTT
5770 IS [GA] CACAACGCTGAAGCGATTCCA
5790 I S GGTCCTAGACTTCCAGTAAGAATGACTCAGAGTCTCCCA
5790 P G S ATGACGTGGCAGACCGCTCTGAAATACTGAAGTATY
5790 P A S CGCGCCGAGGTGCTCTGAAATACTGAAGTATTY
5790 T G S AATAAATACTTCAGTATTTCAGAGCGGGGAGACTCTGAGTCATTCTTACTGGAAGTCTAGGACCAG
5790 T A S AATAAATACTTCAGTATTTCAGAGCAGGGAGACTCTGAGTCATTCTTACTGGAAGTCTAGGACCAG
CCTCACTGTCACCTTCCCGAGAATACCCTAAGACCAATAAATACTTCAGTATTTCAGAGC[GA]GGAGACTCTGAGTCATTCTTACTGGAAGTCTAGGACCA
5790 IS [GA] GGTCACATGTGAATACTATTT ctg12414 1
5795 I A TGGCCTCCTGTGAAGCCCCTCGAAGA
5795 P C A ATGACGTGGCAGACCCGTGGTGGAGCCY
5795 P T A CGCGCCGAGGTCGTGGTGGAGCCY
5795 T C A GCCTGGCTCCACCACGGCTTCGAGGGGCTTCACAGGAGGCCATC
5795 T T A GCCTGGCTCCACCACGACTTCGAGGGGCTTCACAGGAGGCCATC
ACGAACAAAGCAGCTGCCTCTCCCACTGGGTCAGATGGCCTCCTGTGAAGCCCCTCGAAG[CT]CGTGGTGGAGCCAGGCCAGGGCAGGACTCACCTTGCC
5795 IS [CT] GGTCCGCAGGGTGAGGGGGGTGT
5798 I A AGGCAGTCAGGCACCTAGGTCAACAAGCT
5798 P G A ATGACGTGGCAGACGCAGGATACGTGACGTY
5798 P A A CGCGCCGAGGACAGGATACGTGACGTY
5798 T G A CAACACGTCACGTATCCTGCGCTTGTTGACCTAGGTGCCTGACTGCCTGT
5798 T A A CAACACGTCACGTATCCTGTGCTTGTTGACCTAGGTGCCTGACTGCCTGT
AGTGGCAGTCAGCCACCTAGGTCAATAAGCACAGGCAGTCAGGCACCTAGGTCAACAAGC[GA]CAGGATACGTGACGTGTTGTGTGAGGGAAAAGGAGGA
5798 IS [GA] TGGAGGTGGGGAGGGTGCGGGTA
5802 I S CAAAGTCTGCTTTGAAATTTTTATGCTCTAATTTGTACTAAATCAAGAGAAAAATA
5802 P A S CGCGCCGAGGTGGAGAAACTGATTTTTGTAC
5802 P G S ATGACGTGGCAGACCGGAGAAACTGATTTTTGTACY
5802 T A S AATGGTACAAAAATCAGTTTCTCCAATTTTTCTCTTGATTTAGTACAAATTAGAGCATAAAAATTTCAAAGCAGACTTTGAA
5802 T G S AATGGTACAAAAATCAGTTTCTCCGATTTTTCTCTTGATTTAGTACAAATTAGAGCATAAAAATTTCAAAGCAGACTTTGAA
TCTACCATACGAGGTTATAGTAATAGGATTACACATAATGGTACAAAAATCAGTTTCTCC[AG]ATTTTTCTCTTGATTTAGTACAAATTAGAGCATAAAAATTTC
5802 IS [AG] AAAGCAGACTTTGAAAAT ctg16861 13
5870 I S GCAGAATGTAGAGCTTGACGTGCACGCACAAAAT
5870 P T S CGCGCCGAGGACGTGCTGTACCCGY
5870 P C S ATGACGTGGCAGACGCGTGCTGTACCCGY
5870 T T S CCTTCGGGTACAGCACGTTTTTGTGCGTGCACGTCAAGCTCTACATTCTGCTG
5870 T C S CCTTCGGGTACAGCACGCTTTTGTGCGTGCACGTCAAGCTCTACATTCTGCTG
TTCGCCAATTACCGCCTGTGGGAGGCCCTGGGCTTCGTCATTGCCTTCGGGTACAGCACG[TC]TTTTGTGCGTGCACGTCAAGCTCTACATTCTGCTGGGG
5870 IS [TC] GTCCTGAGCCTGACCATGGTGG ctg16861 13
5930 I S GAGCACCAATCCACAGGCCACTGGACT
5930 P T S CGCGCCGAGGATGGTGATTTTGCCAACG
5930 P C S ATGACGTGGCAGACGTGGTGATTTTGCCAAC
5930 T T S CTCACGTTGGCAAAATCACCATGTCCAGTGGCCTGTGGATTGGTGCTCGG
5930 T C S CTCACGTTGGCAAAATCACCACGTCCAGTGGCCTGTGGATTGGTGCTCGG
CTCCATGTAGCTGCACGGGGAGCTTGGGGCCTCCACCCACTCACGTTGGCAAAATCACCA[TC]GTCCAGTGGCCTGTGGATTGGTGCTCGGTGGACACGG
5930 IS [TC] ATGCGTGTGCCCCAGCAGGCTGG
5971 I S GAGGAGGTGCCTCTTTGCCTCATCACCTGT
5971 P T S CGCGCCGAGGACTCCACAAGAAACAAGGY
5971 P C S ATGACGTGGCAGACGCTCCACAAGAAACAAGGY
5971 T T S CTGCCCTTGTTTCTTGTGGAGTCAGGTGATGAGGCAAAGAGGCACCTCCTCCA
5971 T C S CTGCCCTTGTTTCTTGTGGAGCCAGGTGATGAGGCAAAGAGGCACCTCCTCCA
CACCTTACCCTGAAAGTGGTGAAGCCCAGTGATGAGGAGCTGCCCTTGTTTCTTGTGGAG[TC]CAGGTGATGAGGCAAAGAGGCACCTCCTCCAGGTGCG
5971 IS [TC] AAGGTCCAGCTCAGTGGCACAAG ctg17253 1 UBD
6018 I A GCAAACTCCTAACGGGGTTTTGGCACATCACAAAA
6018 P C A ATGACGTGGCAGACCAATTAGGCGACTGCAC
6018 P T A CGCGCCGAGGTAATTAGGCGACTGCACT
6018 T C A ATGGAGTGCAGTCGCCTAATTGTTTGTGATGTGCCAAAACCCCGTTAGGAGTTTGCTC
6018 T T A ATGGAGTGCAGTCGCCTAATTATTTGTGATGTGCCAAAACCCCGTTAGGAGTTTGCTC
TTTTGGCAGAACTTCCAAGGTAACGAGCAAACTCCTAACGGGGTTTTGGCACATCACAAA[CT]AATTAGGCGACTGCACTCCATAATCAGCCTAGGGGGACG
6018 IS [CT] GGGAGGCCATGCGCCTGCCAG ctg15071 9
6100 I S CTCACTCCCCATGGGTTTTGGGACTCTAACCA
6100 P G S ATGACGTGGCAGACCGGCTCCTCTGCTT
6100 P A S CGCGCCGAGGTGGCTCCTCTGCTTC
6100 T G S GCAGGAAGCAGAGGAGCCGGGTTAGAGTCCCAAAACCCATGGGGAGTGAGCC
6100 T A S GCAGGAAGCAGAGGAGCCAGGTTAGAGTCCCAAAACCCATGGGGAGTGAGCC
CGGGCTCCAAGCCGCCCACGGCCCATGTTTCTGCTAGGTCTAGCAGGAAGCAGAGGAGCC[GA]GGTTAGAGTCCCAAAACCCATGGGGAGTGAGCCGGC
6100 IS [GA] TGCTTCCGGCCAGCCTCGGATTAA ctg15071 9
6154 I A CATCCTGCCTCCCAACCCTGTAATTACGGTGT
6154 P C A CGCGCCGAGGCTTCCCAACGCCCA
6154 P G A ATGACGTGGCAGACGTTCCCAACGCCCA
6154 T C A GCGATGGGCGTTGGGAAGCACCGTAATTACAGGGTTGGGAGGCAGGATGCC
6154 T G A GCGATGGGCGTTGGGAACCACCGTAATTACAGGGTTGGGAGGCAGGATGCC
TTGAAAGGCACCTCCTCCCCCAGCGCAGGCATCCTGCCTCCCAACCCTGTAATTACGGTG[CG]TTCCCAACGCCCATCGCGTGGTTTGCTCCCATTCTTTG
6154 IS [CG] GCTTCCAATAGTTGCAAGGGAT
6157 I A CCCAATTCCCACTCCCATTGGGTGTCGGT
6157 P G A ATGACGTGGCAGACGTTCTAGAGAAGCCAATCAG
6157 P A A CGCGCCGAGGATTCTAGAGAAGCCAATCAG
6157 T G A GACGCTGATTGGCTTCTCTAGAACCCGACACCCAATGGGAGTGGGAATTGGGGA
6157 T A A GACGCTGATTGGCTTCTCTAGAATCCGACACCCAATGGGAGTGGGAATTGGGGA
GGGTCCTTCTTCCTGAATACTCATGACGCGTCCCCAATTCCCACTCCCATTGGGTGTCGG[GA]TTCTAGAGAAGCCAATCAGCGTCTCCGCAGTCCCGGTT
6157 IS [GA] CTAAAGTCCCCAGTCACCCACC
6183 I S CATGAAGTAAGACTTTAAAAATATTTTTTGCTGACCTCTTTCATTGGTAATCT
6183 P T S CGCGCCGAGGAAATGCTTTCTTGGACTGGY
6183 P C S ATGACGTGGCAGACGAATGCTTTCTTGGACTGGY
6183 T T S AATACCAGTCCAAGAAAGCATTTGATTACCAATGAAAGAGGTCAGCAAAAAATATTTTTAAAGTCTTACTTCATGAT

FIGURE 129E


6183 T C S AATACCAGTCCAAGAAAGCATTCGATTACCAATGAAAGAGGTCAGCAAAAAATATTTTTAAAGTCTTACTTCATGAT
6183 IS [TC] TATTATCCAACCAGCAAGACAGTCAATAAATTCACAAAAATACCAGTCCAAGAAAGCATT[TC]GATTACCAATGAAAGAGGTCAGCAAAAAATATTTTTAAAGT CTTACTTCATGATGTGGTG ctg14326 3
6205 I S GCCACCTGGGAGATTCTAATTCTCCACACCAGAA
6205 P G S ATGACGTGGCAGACCGTGGCTGATACTAAAGTAC
6205 P A S CGCGCCGAGGTGTGGCTGATACTAAAGTACT
6205 T G S GATAAGTACTTTAGTATCAGCCACGTCTGGTGTGGAGAATTAGAATCTCCCAGGTGGCTT
6205 T A S GATAAGTACTTTAGTATCAGCCACATCTGGTGTGGAGAATTAGAATCTCCCAGGTGGCTT
6205 IS [GA] GCTTGATGTGTGGTTGGCGCTCAAAGCCTGTTTATTGATAAGTACTTTAGTATCAGCCAC[GA]TCTGGTGTGGAGAATTAGAATCTCCCAGGTGGCTTTGAA TAAAGTACAAATAACTGACTT ctg14326 3
6212 I A CTTCTCCAAATTCCACGTCTTCCATGAGTGTGGGTAATAAT
6212 P A A CGCGCCGAGGATGCCTCATGGAACTG
6212 P G A ATGACGTGGCAGACGTGCCTCATGGAACTG
6212 T A A AAAGCAGTTCCATGAGGCATTTATTACCCACACTCATGGAAGACGTGGAATTTGGAGAAGGA
6212 T G A AAAGCAGTTCCATGAGGCACTTATTACCCACACTCATGGAAGACGTGGAATTTGGAGAAGGA
6212 IS [AG] TGCGTTAGGCCAGGCTCTTCCTTCTCCAAATTCCACGTCTTCCATGAGTGTGGGTAATAA[AG]TGCCTCATGGAACTGCTTTGAGCCTTAATTGACGTAAAAA ATACTGGCTTTGGAGTTCCA ctg16306 4
6228 I S CCAGATGCTTAAGGAAACCAGGTGTCCCTCCT
6228 P T S CGCGCCGAGGACCAAAAATGGCAGAATCA
6228 P C S ATGACGTGGCAGACGCCAAAAATGGCAGAATC
6228 T T S TTTCTGATTCTGCCATTTTTGGTGGAGGGACACCTGGTTTCCTTAAGCATCTGGGT
6228 T C S TTTCTGATTCTGCCATTTTTGGCGGAGGGACACCTGGTTTCCTTAAGCATCTGGGT
6228 IS [TC] GCATTGCCCCGCCTGGGGAGCCGTCCCGGCACCTCGGGTTTCTGATTCTGCCATTTTTGG[TC]GGAGGGACACCTGGTTTCCTTAAGCATCTGGGTCATGA GGTCCTGCAAACTTCTGCACTT ctg13980 1
6237 I A GCTTGGGGCTGGAGGGGTGGGA
6237 P C A ATGACGTGGCAGACCGGGCGGGTGTGY
6237 P T A CGCGCCGAGGTGGGCGGGTGTGY
6237 T C A TCCACACACCCGCCCGCCCACCCCTCCAGCCCCAAGCTG
6237 T T A TCCACACACCCGCCCACCCACCCCTCCAGCCCCAAGCTG
6237 IS [CT] TATCGGAGTGCTCTTCCCTCAGTCTGCTGCTAGTGCCCAGCTTGGGGCTGGAGGGGTGGG[CT]GGGCGGGTGTGTGGAGTCCTGGAGACTGTGGCCGAG AGGACAAGCCCTGAGCTAGGTTGG ctg13980 1
6239 I S CCTTCTGCAGCAGGGGTCTTGCTGCT
6239 P C S ATGACGTGGCAGACGCATATGCACTTAAATAACAGGY
6239 P T S CGCGCCGAGGACATATGCACTTAAATAACAGGA
6239 T C S TGTGTCCTGTTATTTAAGTGCATATGCGCAGCAAGACCCCTGCTGCAGAAGGAA
6239 T T S TGTGTCCTGTTATTTAAGTGCATATGTGCAGCAAGACCCCTGCTGCAGAAGGAA
6239 IS [CT] GTGAAACTTAAAAAGAAATAAGATTAAGCTATATTGTGTCCTGTTATTTAAGTGCATATG[CT]GCAGCAAGACCCCTGCTGCAGAAGGAAAGCATTTTTTCATT AAGTGTTTTTGTCCCTCTC ctg15972 16
6245 I A GGGTGGCCACCTCCAAGGCTCTTTTCTA
6245 P C A ATGACGTGGCAGACCTTTATTCCTTGGCTGGAA
6245 P T A CGCGCCGAGGTTTTATTCCTTGGCTGGAA
6245 T C A ACGGTTCCAGCCAAGGAATAAAGAGAAAAGAGCCTTGGAGGTGGCCACCCTG
6245 T T A ACGGTTCCAGCCAAGGAATAAAAAGAAAAGAGCCTTGGAGGTGGCCACCCTG
6245 IS [CT] ACACAGCCCTTCGGGCAGCTTGGGATCCTGCCAGGGTGGCCACCTCCAAGGCTCTTTTCT[CT]TTATTCCTTGGCTGGAACCGTCACCCTGCCTGGCACA GAGAAGGGCTTAGTGAGGTTTG ctg15907 6
6256 I A ACAGAGGAAGAAGCTGCTGTGCCAAGCCT
6256 P G A ATGACGTGGCAGACGTCAGGCTCCTAGGC
6256 P A A CGCGCCGAGGATCAGGCTCCTAGGC
6256 T G A GTACGCCTAGGAGCCTGACGGCTTGGCACAGCAGCTTCTTCCTCTGTGA
6256 T A A GTACGCCTAGGAGCCTGATGGCTTGGCACAGCAGCTTCTTCCTCTGTGA
6256 IS [GA] TAGACCAGTTTACAGAGGAATACACTAGGCTCACAGAGGAAGAAGCTGCTGTGCCAAGCC[GA]TCAGGCTCCTAGGCGTACACTCTGACCCTTCCATCATG CCCCAGCTAAGCTGTGAAAGGT ctg22fin6 22
6267 I S GCCCCATCAAGTCATTAACCCTGTCCCCCA
6267 P A S CGCGCCGAGGTGTAAGGCAGACTGAAGC
6267 P G S ATGACGTGGCAGACCGTAAGGCAGACTGAAG
6267 T A S CTCTGCTTCAGTCTGCCTTACAGGGGGACAGGGTTAATGACTTGATGGGGCCA
6267 T G S CTCTGCTTCAGTCTGCCTTACGGGGGGACAGGGTTAATGACTTGATGGGGCCA
6267 IS [AG] TGGTCTCAAAAATGGCCAGAACCACTGCCAGCCTCCCATCTCTGCTTCAGTCTGCCTTAC[AG]GGGGGACAGGGTTAATGACTTGATGGGGCCAACATCCC TTCCCTCATAAACCAGGCTGCC ctg15907 6
6288 I S CAGAGAGACCCACAGTGAGCCCTGGGT
6288 P T S CGCGCCGAGGATCAGAGGCACCTCC
6288 P G S ATGACGTGGCAGACCTCAGAGGCACCTCC
6288 T T S TATGGGAGGTGCCTCTGATCCCAGGGCTCACTGTGGGTCTCTCTGTT
6288 T G S TATGGGAGGTGCCTCTGAGCCCAGGGCTCACTGTGGGTCTCTCTGTT
6288 IS [TG] CAGCTCCCAGATGTGAGTGTCTCAGGGATCCAGACATGGGGGTATGGGAGGTGCCTCTGA[TG]CCCAGGGCTCACTGTGGGTCTCTCTGTTCACAGGGGT CCTGTCCCAGGTGCAGCTGCAGG ctg16920 19
6298 I S AGTTTGGCTTATGTGGTGGCTCTTGAATGGAATATTTCTCTTACAATTT
6298 P T S CGCGCCGAGGAGATTGTGTTTCTATTGTTCTTTG
6298 P G S ATGACGTGGCAGACCGATTGTGTTTCTATTGTTCTTT
6298 T T S AGAACAAAGAACAATAGAAACACAATCTAATTGTAAGAGAAATATTCCATTCAAGAGCCACCACATAAGCCAAACTGA
6298 T G S AGAACAAAGAACAATAGAAACACAATCGAATTGTAAGAGAAATATTCCATTCAAGAGCCACCACATAAGCCAAACTGA
6298 IS [TG] TTAAGACTGTTTAGAAAACGGGTTATATATTTGAGAACAAAGAACAATAGAAACACAATC[TG]AATTGTAAGAGAAATATTCCATTCAAGAGCCACCACATAAG CCAAACTGACAGAGTGGGA ctg16920 19
6311 I S CCTTCCACACCCCCAATCCTGGGACCC
6311 P A S CGCGCCGAGGTCTCCCATGGCCTG
6311 P C S ATGACGTGGCAGACGCTCCCATGGCCT
6311 T A S TTGACAGGCCATGGGAGAGGTCCCAGGATTGGGGGTGTGGAAGGAT
6311 T C S TTGACAGGCCATGGGAGCGGTCCCAGGATTGGGGGTGTGGAAGGAT
6311 IS [AC] CACAAGGTCCCCTTGTTTCACCACTGACCCACCCAGATGCTGCTTGACAGGCCATGGGAG[AC]GGTCCCAGGATTGGGGGTGTGGAAGGATAGACTCCAC TCTGAACCAATTCCCTTAGGACC
6324 I S CCTTTACCTTGGACCCCTCACCAAGGCTT
6324 P G S CGCGCCGAGGCCCTCTGGGCTACAG
6324 P C S ATGACGTGGCAGACGCCTCTGGGCTACAG
6324 T G S GTCCCTGTAGCCCAGAGGGAGCCTTGGTGAGGGGTCCAAGGTAAAGGGT
6324 T C S GTCCCTGTAGCCCAGAGGCAGCCTTGGTGAGGGGTCCAAGGTAAAGGGT
6324 IS [GC] GAAAAGGCTTAGGCCCCTTGTCCTCTGGCAGCCCAGCTCGGTGTCCCTGTAGCCCAGAGG[GC]AGCCTTGGTGAGGGGTCCAAGGTAAAGGGTGCAAGG GCCTGGGGGCATTGGCCACCCGTC ctg15907 6
6326 I S GGACACTGTGACACCGAGCCCATCCCA
6326 P G S ATGACGTGGCAGACCCACATGACCCAGATGA
6326 P A S CGCGCCGAGGTCACATGACCCAGATGA
6326 T G S ACTTTCATCTGGGTCATGTGGGGGATGGGCTCGGTGTCACAGTGTCCTG
6326 T A S ACTTTCATCTGGGTCATGTGAGGGATGGGCTCGGTGTCACAGTGTCCTG
6326 IS [GA] GGGGGGCGATCCGGACAGGGAAGTGCTCACCACACTCTCGACTTTCATCTGGGTCATGTG[GA]GGGATGGGCTCGGTGTCACAGTGTCCTGCCCAGCCCA CCTGGCCAGACCTCCCTCTGGGC ctg15330 9
6356 I A GGAAATTAACCTTTTAAAGGAATCCTTTTTATATAGCAAGTAATGACTAACTGATA
6356 P T A CGCGCCGAGGTGCTGTCCATCCTCAGY
6356 P C A ATGACGTGGCAGACCGCTGTCCATCCTCAY
6356 T T A AAAACTGAGGATGGACAGCAATCAGTTAGTCATTACTTGCTATATAAAAAGGATTCCTTTAAAAGGTTAATTTCCCT
6356 T C A AAAACTGAGGATGGACAGCGATCAGTTAGTCATTACTTGCTATATAAAAAGGATTCCTTTAAAAGGTTAATTTCCCT

				CCAAGGGAAATTAACCTTTTAAAGGAATCCTTTTTATATAGCAAGTAATGACTAACTGAT[TC]GCTGTCCATCCTCAGTTTTAACCTGAAAAGAGTCCACTGCA		
6356	IS	[TC]		AGGATCCTAGTGCCCGGAG	ctg15330	9
6368	I		A	GGTCTCCTTCCAAGGGTTAGGCACAGAGAGCT		
6368	P	G	A	ATGACGTGGCAGACGCTTCCAGTGTCTACACY		
6368	P	A	A	CGCGCCGAGGACTTCCAGTGTCTACACCY		
6368	T	G	A	AGGTGGTGTAGACACTGGAAGCGCTCTCTGTGCCTAACCCTTGGAAGGAGACCAG		
6368	T	A	A	AGGTGGTGTAGACACTGGAAGTGCTCTCTGTGCCTAACCCTTGGAAGGAGACCAG		
				TTAGGAGGTGCAGATGATGCTCAGACACTGGTCTCCTTCCAAGGGTTAGGCACAGAGAGC[GA]CTTCCAGTGTCTACACCACCTTGTTCAGGTCTGCCTGT		
6368	IS	[GA]		CCCTGAGAACAGTCCCTGCTGA	ctg15330	9
6370	I		S	ACAGACCGTGGTGGACATGTGGCCAT		
6370	P	T	S	CGCGCCGAGGAGCCCTGGCCACY		
6370	P	C	S	ATGACGTGGCAGACGGCCCTGGCCACY		
6370	T	T	S	GGAGGTGGCCAGGGCTTGGCCACATGTCCACCACGGTCTGTCC		
6370	T	C	S	GGAGGTGGCCAGGGCCTGGCCACATGTCCACCACGGTCTGTCC		
				GTGTGAAGAGGCCATTGCTCTAGATCTGGATTTTCCAGGGAAAGGGGAGGTGGCCAGGGC[TC]TGGCCACATGTCCACCACGGTCTGTCCTAAGAGCTGA		
6370	IS	[TC]		GGCCTCAGCCACAGTTGTGTGGG	ctg12559	6
6383	I		A	GTGGGCTCTGCTTTCCCAACTGACCGT		
6383	P	G	A	ATGACGTGGCAGACGTGTCCATCATGCCCY		
6383	P	A	A	CGCGCCGAGGATGTCCATCATGCCCTY		
6383	T	G	A	AGAGAGGGCATGATGGACACCGGTCAGTTGGGAAAGCAGAGCCCACCT		
6383	T	A	A	AGAGAGGGCATGATGGACATCGGTCAGTTGGGAAAGCAGAGCCCACCT		
				AAATGCATTTAGAAGAGTTTAGAATAAAGCCCAGGTGGGCTCTGCTTTCCCAACTGACCG[GA]TGTCCATCATGCCCTCTCTTCTTAGGCTCCTACCTTCATT		
6383	IS	[GA]		CACGTACCTGCCCCACCCAG	ctg15907	6
6387	I		A	ACACTACAATAAAGAAATACTTGAGACTGGGTAATTTATAAACAAAGGAAGTTTAAA		
6387	P	T	A	CGCGCCGAGGTTGACTCACAGTTCCACAY		
6387	P	C	A	ATGACGTGGCAGACCTGACTCACAGTTCCACY		
6387	T	T	A	GCCGTGTGGAACTGTGAGTCAATTAAACTTCCTTTGTTTATAAATTACCCAGTCTCAAGTATTTCTTTATTGTAGTGTGA		
6387	T	C	A	GCCGTGTGGAACTGTGAGTCAGTTAAACTTCCTTTGTTTATAAATTACCCAGTCTCAAGTATTTCTTTATTGTAGTGTGA		
				TTTCACACTACAATAAAGAAATACTTGAGACTGGGTAATTTATAAACAAAGGAAGTTTAA[TC]TGACTCACAGTTCCACACGGCTGGGGAAGCCTCAGGAAAC		
6387	IS	[TC]		TTACAATCATGGCGGAAGGC		
6398	I		A	AGTCTTTCACAAGCCAGCCCAGGGATTTCCA		
6398	P	C	A	ATGACGTGGCAGACCGTCTTTTTCTCCCTGAGY		
6398	P	T	A	CGCGCCGAGGTGTCTTTTTCTCCCTGAGTY		
6398	T	C	A	GAAAACTCAGGGAGAAAAAGACGGGAAATCCCTGGGCTGGCTTGTGAAAGACTCC		
6398	T	T	A	GAAAACTCAGGGAGAAAAAGACAGGAAATCCCTGGGCTGGCTTGTGAAAGACTCC		
				CAGCCAGTTCTCCCAACAGGGCCCTTTGGGAGTCTTTCACAAGCCAGCCCAGGGATTTCC[CT]GTCTTTTTCTCCCTGAGTTTTCTCTGCACTCTCCACAAT		
6398	IS	[CT]		GTCTTCTCTTTTCTCTCGTTT	ctg22fin3	22
6420	I		S	CCTGAGTTCCAGCCATCATCATCCTTCACCTGAAC		
6420	P	A	S	CGCGCCGAGGTTATTTTAATAGCTTGTAACTCATTCTY		
6420	P	C	S	ATGACGTGGCAGACGTATTTTAATAGCTTGTAACTCATTCTY		
6420	T	A	S	AGGAAGAATGAGTTACAAGCTATTAAAATAATTCAGGTGAAGGATGATGATGGCTGGAACTCAGGCC		
6420	T	C	S	AGGAAGAATGAGTTACAAGCTATTAAAATACTTCAGGTGAAGGATGATGATGGCTGGAACTCAGGCC		
				TCTGAAGAGTGCTCTGTGGGGGGTAGGTTGGAGGAAGAATGAGTTACAAGCTATTAAAATA[AC]TTCAGGTGAAGGATGATGATGGCTGGAACTCAGGCCAT		
6420	IS	[AC]		GACATGGAGATGGAGAGAGGAG	ctg22fin4	22
6423	I		A	AGGGCAGGGGACAGTGCTGAACACAATC		
6423	P	T	A	CGCGCCGAGGTATCTTGGGCTGCCTTAY		
6423	P	A	A	ATGACGTGGCAGACAATCTTGGGCTGCCTY		
6423	T	T	A	GACTTAAGGCAGCCCAAGATAATTGTGTTCAGCACTGTCCCCTGCCCTCG		
6423	T	A	A	GACTTAAGGCAGCCCAAGATTATTGTGTTCAGCACTGTCCCCTGCCCTCG		
				CTCCAGGTCATAGGAGGCCCTGATGCCACAGCGAGGGCAGGGGACAGTGCTGAACACAAT[TA]ATCTTGGGCTGCCTTAAGTCCCTCAGTGTCTTCATCAG		
6423	IS	[TA]		CTCAGCCCCAAGTTGAGAAAAT	ctg13980	1
6426	I		A	AGAAGCGGGTGTTGGCCCTGCCA		
6426	P	T	A	CGCGCCGAGGTGGGAAGCCGCCY		
6426	P	C	A	ATGACGTGGCAGACCGGGAAGCCGCCY		
6426	T	T	A	GAAGGGCGGCTTCCCAGGCAGGGCCAACACCCGCTTCTCC		
6426	T	C	A	GAAGGGCGGCTTCCCGGGCAGGGCCAACACCCGCTTCTCC		
				TGTGATCCAAGATGATGACGTGGAGTGCACTATGGTGGAGAAGCGGGTGTTGGCCCTGCC[TC]GGGAAGCCGCCCTTCCTGACCCAGCTCCACTCCTGCT		
6426	IS	[TC]		TCCAGACCATGGTAACTTGTCCC	ctg15665	20
6439	I		A	TGTAAAGTGAAAGGTGGCAAATTCAGAGTCATCTGTATTTAA		
6439	P	C	A	ATGACGTGGCAGACCCTATTTTCAAAATGAAGTAGACTTY		
6439	P	T	A	CGCGCCGAGGTCTATTTTCAAAATGAAGTAGACTTGY		
6439	T	C	A	AACTCAAGTCTACTTCATTTTGAAAATAGGTAAATACAGATGACTCTGAATTTGCCACCTTTCACTTTACATT		
6439	T	T	A	AACTCAAGTCTACTTCATTTTGAAAATAGATAAATACAGATGACTCTGAATTTGCCACCTTTCACTTTACATT		
				AATAGTGAAGCAATATAAATGTAAAGTGAAAGGTGGCAAATTCAGAGTCATCTGTATTTA[CT]CTATTTTCAAAATGAAGTAGACTTGAGTTCTAATAAATAAG		
6439	IS	[CT]		ATAAAATTAAGTTCTGTTT	ctg16537	20
6440	I		S	ACTGAGGTGATGCAAAAGCAGTTTTTTGAATCAGCTTAAACATGATCC		
6440	P	A	S	CGCGCCGAGGTAACACAAAATCTATGAAAAATGCAY		
6440	P	C	S	ATGACGTGGCAGACGAACACAAAATCTATGAAAAATGCY		
6440	T	A	S	GTTGTGCATTTTTCATAGATTTTGTGTTAGATCATGTTTAAGCTGATTCAAAAAACTGCTTTTGCATCACCTCAGTAT		
6440	T	C	S	GTTGTGCATTTTTCATAGATTTTGTGTTCGATCATGTTTAAGCTGATTCAAAAAACTGCTTTTGCATCACCTCAGTAT		
				TTACTGTCTTCTTTGTAACTGGTGCAATTGTGGTTGTGCATTTTTCATAGATTTTGTGTT[AC]GATCATGTTTAAGCTGATTCAAAAAACTGCTTTTGCATCAC		
6440	IS	[AC]		CTCAGTATAAAAATCTGTA	ctg22fin4	22
6452	I		S	TGCCTTGCAAGCTGAATGCAGATACTTTGGCTTT		
6452	P	C	S	ATGACGTGGCAGACGTTTTCACATTTGCTCTGTGY		
6452	P	G	S	CGCGCCGAGGCTTTTCACATTTGCTCTGTGY		
6452	T	C	S	GGAGCACAGAGCAAATGTGAAAACAAGCCAAAGTATCTGCATTCAGCTTGCAAGGCAGT		
6452	T	G	S	GGAGCACAGAGCAAATGTGAAAAGAAGCCAAAGTATCTGCATTCAGCTTGCAAGGCAGT		
				AGATACTCAGAGAAAGACACAGGTAAAGATCTGCCAGGGAGCACAGAGCAAATGTGAAAA[CG]AAGCCAAAGTATCTGCATTCAGCTTGCAAGGCAGTTTCC		
6452	IS	[CG]		CAAGCATCTGTAAACATGTGC	ctg15665	20
6456	I		S	CTTGCAAGAACAGAAGGACCTGATCATGTGTGCACT		
6456	P	C	S	ATGACGTGGCAGACGTATCCTTAGCAACGTATTTTGY		
6456	P	T	S	CGCGCCGAGGATATCCTTAGCAACGTATTTTGY		
6456	T	C	S	AAGACAAAATACGTTGCTAAGGATACGTGCACACATGATCAGGTCCTTCTGTTCTTGCAAGTG		
6456	T	T	S	AAGACAAAATACGTTGCTAAGGATATGTGCACACATGATCAGGTCCTTCTGTTCTTGCAAGTG		
				GACCTGTATTTACTTACTGAGCTATTTTTCTTGATAAGACAAAATACGTTGCTAAGGATA[CT]GTGCACACATGATCAGGTCCTTCTGTTCTTGCAAGTGAATG		
6456	IS	[CT]		TGGAGGTGATGTAACACGA	ctg13446	1
6463	I		A	AGCCCAAGCCGCCCACCCAA		
6463	P	C	A	ATGACGTGGCAGACCCCCTAAGCACCGCY		
6463	P	T	A	CGCGCCGAGGTCCCTAAGCACCGCY		
6463	T	C	A	GGGTGCGGTGCTTAGGGGTGGGTGGGCGGCTTGGGCTGG		
6463	T	T	A	GGGTGCGGTGCTTAGGGATGGGTGGGCGGCTTGGGCTGG		
				TCGCGGCTTCCTCCTCCTCTCGCCGCCACGCGCGCCGCACCAGCCCAAGCCGCCCACCCA[CT]CCCTAAGCACCGCACCCAGACGTCTCGAAACCCCCTC		
6463	IS	[CT]		CCTTCCCCGCTGCCGGCTCAGGT	ctg13516	6
6483	I		A	GCCCACAGTCTTTTAGATTCTCTTTGATTATTATATCTGTAACTGCT		
6483	P	A	A	CGCGCCGAGGATCAAACACAAACTTGACATTTY		
6483	P	G	A	ATGACGTGGCAGACGTCAAACACAAACTTGACATTY		
6483	T	A	A	CCCAAAATGTCAAGTTTGTGTTTGATGCAGTTACAGATATAATAATCAAAGAGAATCTAAAAGACTGTGGGCTT		
6483	T	G	A	CCCAAAATGTCAAGTTTGTGTTTGACGCAGTTACAGATATAATAATCAAAGAGAATCTAAAAGACTGTGGGCTT		

FIGURE 129E

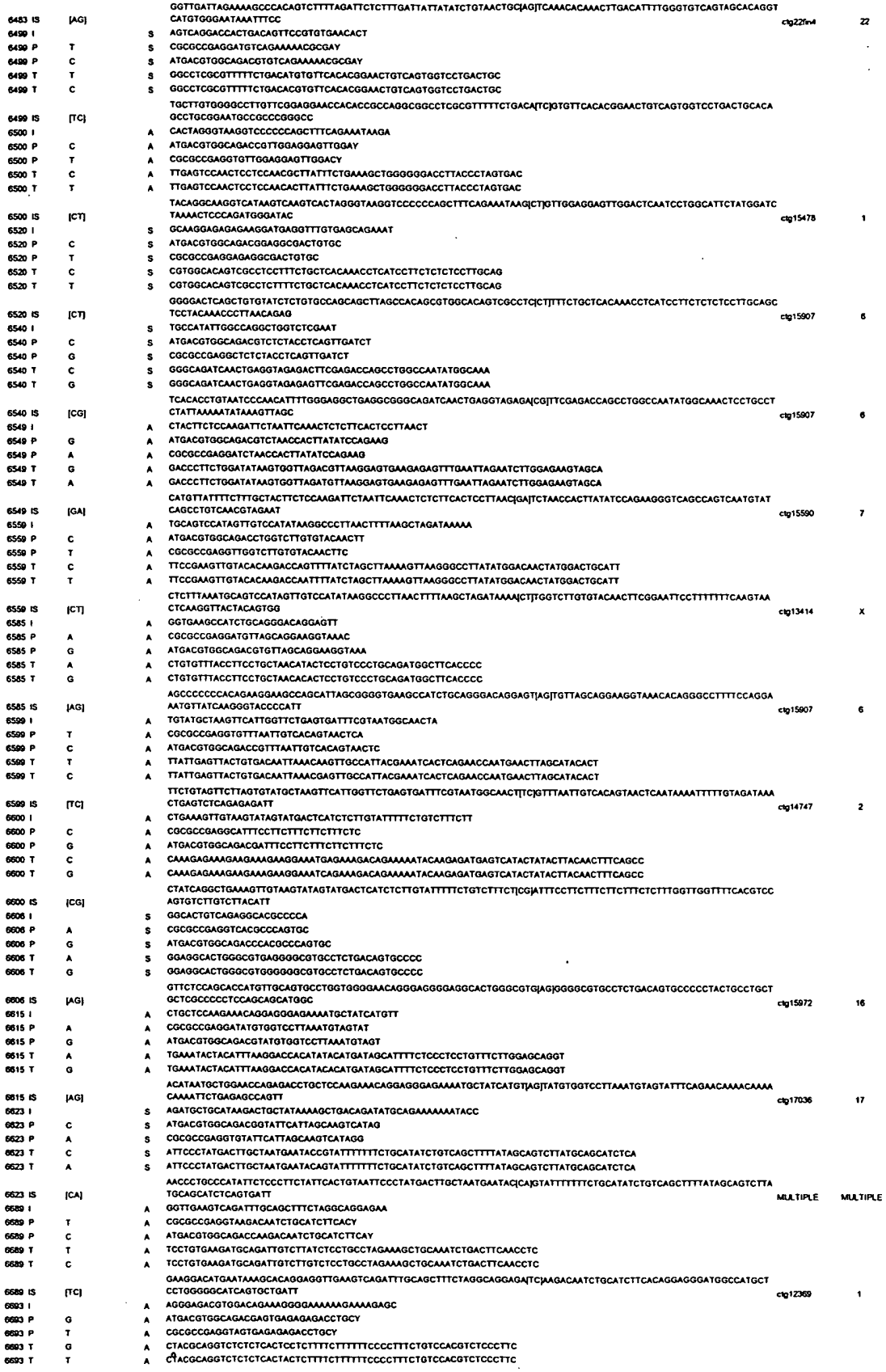
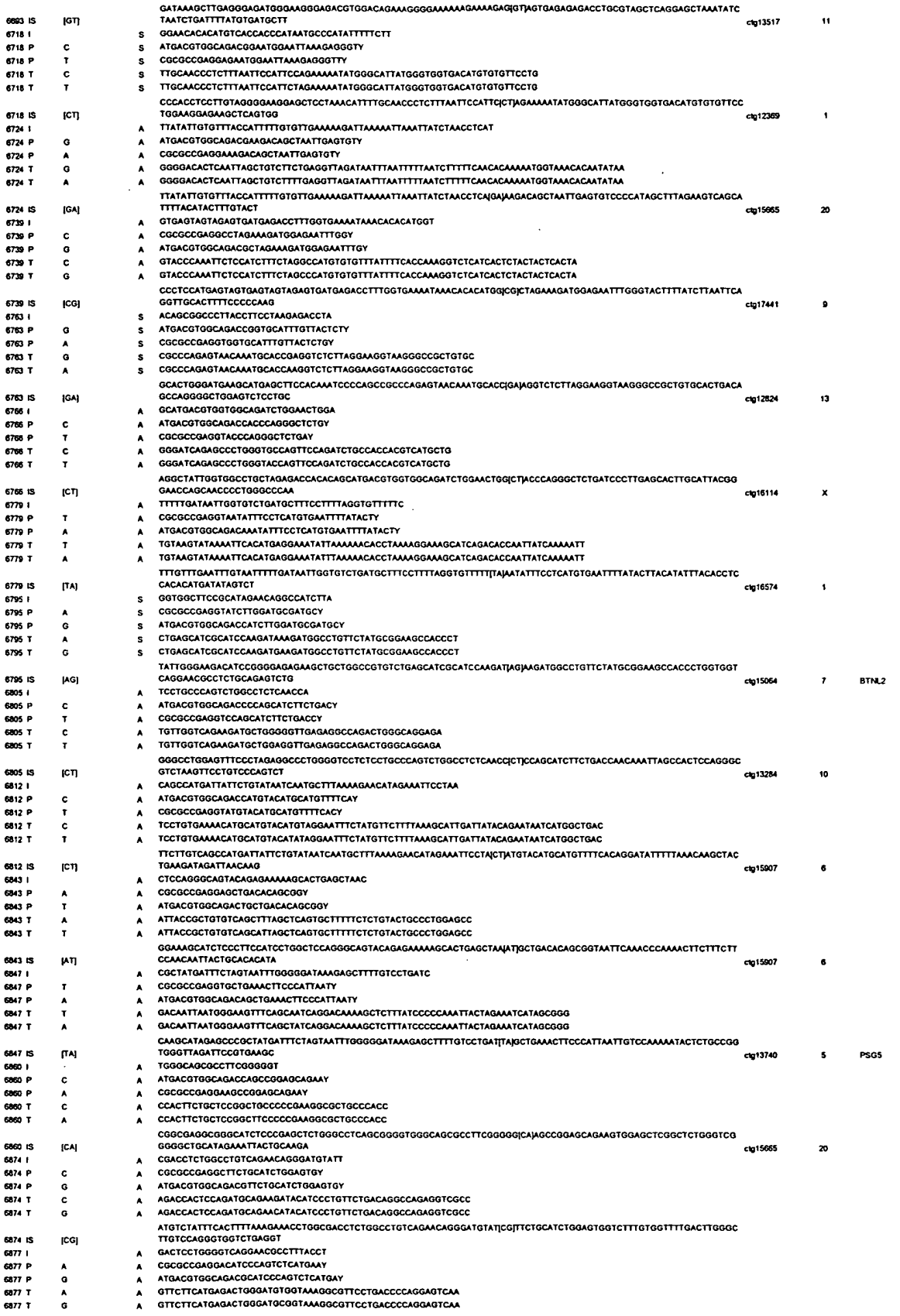

GGTTGATTAGAAAAGCCCACAGTCTTTTAGATTCTCTTTGATTATTATATCTGTAACTGC[AG]TCAAACACAAACTTGACATTTTGGGTGTCAGTAGCACAGGT
6483 IS [AG] CATGTGGGAATAAATTTCC ctg22fin4 22
6499 I S AGTCAGGACCACTGACAGTTCCGTGTGAACACT
6499 P T S CGCGCCGAGGATGTCAGAAAAACGCGAY
6499 P C S ATGACGTGGCAGACGTGTCAGAAAAACGCGAY
6499 T T S GGCCTCGCGTTTTTCTGACATGTGTTCACACGGAACTGTCAGTGGTCCTGACTGC
6499 T C S GGCCTCGCGTTTTTCTGACACGTGTTCACACGGAACTGTCAGTGGTCCTGACTGC
TGCTTGTGGGGCCTTGTTCGGAGGAACCACACCGCCAGGCGGCCTCGCGTTTTTCTGACA[TC]GTGTTCACACGGAACTGTCAGTGGTCCTGACTGCACA
6499 IS [TC] GCCTGCGGAATGCCGCCCGGGCC
6500 I A CACTAGGGTAAGGTCCCCCCAGCTTTCAGAAATAAGA
6500 P C A ATGACGTGGCAGACCGTTGGAGGAGTTGGAY
6500 P T A CGCGCCGAGGTGTTGGAGGAGTTGGACY
6500 T C A TTGAGTCCAACTCCTCCAACGCTTATTTCTGAAAGCTGGGGGGACCTTACCCTAGTGAC
6500 T T A TTGAGTCCAACTCCTCCAACACTTATTTCTGAAAGCTGGGGGGACCTTACCCTAGTGAC
TACAGGCAAGGTCATAAGTCAAGTCACTAGGGTAAGGTCCCCCCAGCTTTCAGAAATAAG[CT]GTTGGAGGAGTTGGACTCAATCCTGGCATTCTATGGATC
6500 IS [CT] TAAAACTCCCAGATGGGATAC ctg15478 1
6520 I S GCAAGGAGAGAGAAGGATGAGGTTTGTGAGCAGAAAT
6520 P C S ATGACGTGGCAGACGGAGGCGACTGTGC
6520 P T S CGCGCCGAGGAGAGGCGACTGTGC
6520 T C S CGTGGCACAGTCGCCTCCTTTCTGCTCACAAACCTCATCCTTCTCTCTCCTTGCAG
6520 T T S CGTGGCACAGTCGCCTCTTTTCTGCTCACAAACCTCATCCTTCTCTCTCCTTGCAG
GGGGACTCAGCTGTGTATCTCTGTGCCAGCAGCTTAGCCACAGCGTGGCACAGTCGCCTC[CT]TTTCTGCTCACAAACCTCATCCTTCTCTCTCCTTGCAGC
6520 IS [CT] TCCTACAAACCCTTAACAGAG ctg15907 6
6540 I S TGCCATATTGGCCAGGCTGGTCTCGAAT
6540 P C S ATGACGTGGCAGACGTCTCTACCTCAGTTGATCT
6540 P G S CGCGCCGAGGCTCTCTACCTCAGTTGATCT
6540 T C S GGGCAGATCAACTGAGGTAGAGACTTCGAGACCAGCCTGGCCAATATGGCAAA
6540 T G S GGGCAGATCAACTGAGGTAGAGAGTTCGAGACCAGCCTGGCCAATATGGCAAA
TCACACCTGTAATCCCAACATTTTGGGAGGCTGAGGCGGGCAGATCAACTGAGGTAGAGA[CG]TTCGAGACCAGCCTGGCCAATATGGCAAACTCCTGCCT
6540 IS [CG] CTATTAAAAATATAAAGTTAGC ctg15907 6
6549 I A CTACTTCTCCAAGATTCTAATTCAAACTCTCTTCACTCCTTAACT
6549 P G A ATGACGTGGCAGACGTCTAACCACTTATATCCAGAAG
6549 P A A CGCGCCGAGGATCTAACCACTTATATCCAGAAG
6549 T G A GACCCTTCTGGATATAAGTGGTTAGACGTTAAGGAGTGAAGAGAGTTTGAATTAGAATCTTGGAGAAGTAGCA
6549 T A A GACCCTTCTGGATATAAGTGGTTAGATGTTAAGGAGTGAAGAGAGTTTGAATTAGAATCTTGGAGAAGTAGCA
CATGTTATTTTCTTTGCTACTTCTCCAAGATTCTAATTCAAACTCTCTTCACTCCTTAAC[GA]TCTAACCACTTATATCCAGAAGGGTCAGCCAGTCAATGTAT
6549 IS [GA] CAGCCTGTCAACGTAGAAT ctg15590 7
6559 I A TGCAGTCCATAGTTGTCCATATAAGGCCCTTAACTTTTAAGCTAGATAAAAA
6559 P C A ATGACGTGGCAGACCTGGTCTTGTGTACAACTT
6559 P T A CGCGCCGAGGTTGGTCTTGTGTACAACTTC
6559 T C A TTCCGAAGTTGTACACAAGACCAGTTTTATCTAGCTTAAAAGTTAAGGGCCTTATATGGACAACTATGGACTGCATT
6559 T T A TTCCGAAGTTGTACACAAGACCAATTTTATCTAGCTTAAAAGTTAAGGGCCTTATATGGACAACTATGGACTGCATT
CTCTTTAAATGCAGTCCATAGTTGTCCATATAAGGCCCTTAACTTTTAAGCTAGATAAAA[CT]TGGTCTTGTGTACAACTTCGGAATTCCTTTTTTTCAAGTAA
6559 IS [CT] CTCAAGGTTACTACAGTGG ctg13414 X
6585 I A GGTGAAGCCATCTGCAGGGACAGGAGTT
6585 P A A CGCGCCGAGGATGTTAGCAGGAAGGTAAAC
6585 P G A ATGACGTGGCAGACGTGTTAGCAGGAAGGTAAA
6585 T A A CTGTGTTTACCTTCCTGCTAACATACTCCTGTCCCTGCAGATGGCTTCACCCC
6585 T G A CTGTGTTTACCTTCCTGCTAACACACTCCTGTCCCTGCAGATGGCTTCACCCC
AGCCCCCCCACAGAAGGAAGCCAGCATTAGCGGGGTGAAGCCATCTGCAGGGACAGGAGT[AG]TGTTAGCAGGAAGGTAAACACAGGGCCTTTTCCAGGA
6585 IS [AG] AATGTTATCAAGGGTACCCCATT ctg15907 6
6599 I A TGTATGCTAAGTTCATTGGTTCTGAGTGATTTCGTAATGGCAACTA
6599 P T A CGCGCCGAGGTGTTTAATTGTCACAGTAACTCA
6599 P C A ATGACGTGGCAGACCGTTTAATTGTCACAGTAACTC
6599 T T A TTATTGAGTTACTGTGACAATTAAACAAGTTGCCATTACGAAATCACTCAGAACCAATGAACTTAGCATACACT
6599 T C A TTATTGAGTTACTGTGACAATTAAACGAGTTGCCATTACGAAATCACTCAGAACCAATGAACTTAGCATACACT
TTCTGTAGTTCTTAGTGTATGCTAAGTTCATTGGTTCTGAGTGATTTCGTAATGGCAACT[TC]GTTTAATTGTCACAGTAACTCAATAAAATTTTTGTAGATAAA
6599 IS [TC] CTGAGTCTCAGAGAGATT ctg14747 2
6600 I A CTGAAAGTTGTAAGTATAGTATGACTCATCTCTTGTATTTTTCTGTCTTTCTT
6600 P C A CGCGCCGAGGCATTTCCTTCTTTCTTCTTTCTC
6600 P G A ATGACGTGGCAGACGATTTCCTTCTTTCTTCTTTCTC
6600 T C A CAAAGAGAAAGAAGAAAGAAGGAAATGAGAAAGACAGAAAAATACAAGAGATGAGTCATACTATACTTACAACTTTCAGCC
6600 T G A CAAAGAGAAAGAAGAAAGAAGGAAATCAGAAAGACAGAAAAATACAAGAGATGAGTCATACTATACTTACAACTTTCAGCC
CTATCAGGCTGAAAGTTGTAAGTATAGTATGACTCATCTCTTGTATTTTTCTGTCTTTCT[CG]ATTTCCTTCTTTCTTCTTTCTCTTTGGTTGGTTTTCACGTCC
6600 IS [CG] AGTGTCTTGTCTTACATT
6606 I S GGCACTGTCAGAGGCACGCCCCA
6606 P A S CGCGCCGAGGTCACGCCCAGTGC
6606 P G S ATGACGTGGCAGACCCACGCCCAGTGC
6606 T A S GGAGGCACTGGGCGTGAGGGGCGTGCCTCTGACAGTGCCCC
6606 T G S GGAGGCACTGGGCGTGGGGGGCGTGCCTCTGACAGTGCCCC
GTTCTCCAGCACCATGTTGCAGTGCCTGGTGGGGAACAGGGAGGGGAGGCACTGGGCGTG[AG]GGGGCGTGCCTCTGACAGTGCCCCCTACTGCCTGCT
6606 IS [AG] GCTCGCCCCCTCCAGCAGCATGGC ctg15972 16
6615 I A CTGCTCCAAGAAACAGGAGGGAGAAAATGCTATCATGTT
6615 P A A CGCGCCGAGGATATGTGGTCCTTAAATGTAGTAT
6615 P G A ATGACGTGGCAGACGTATGTGGTCCTTAAATGTAGT
6615 T A A TGAAATACTACATTTAAGGACCACATATACATGATAGCATTTTCTCCCTCCTGTTTCTTGGAGCAGGT
6615 T G A TGAAATACTACATTTAAGGACCACATACACATGATAGCATTTTCTCCCTCCTGTTTCTTGGAGCAGGT
ACATAATGCTGGAACCAGAGACCTGCTCCAAGAAACAGGAGGGAGAAAATGCTATCATGT[AG]TATGTGGTCCTTAAATGTAGTATTTCAGAACAAAACAAAA
6615 IS [AG] CAAAATTCTGAGAGCCAGTT ctg17036 17
6623 I S AGATGCTGCATAAGACTGCTATAAAAGCTGACAGATATGCAGAAAAAAATACC
6623 P C S ATGACGTGGCAGACGGTATTCATTAGCAAGTCATAG
6623 P A S CGCGCCGAGGTGTATTCATTAGCAAGTCATAGG
6623 T C S ATTCCCTATGACTTGCTAATGAATACCGTATTTTTTTCTGCATATCTGTCAGCTTTTATAGCAGTCTTATGCAGCATCTCA
6623 T A S ATTCCCTATGACTTGCTAATGAATACAGTATTTTTTTCTGCATATCTGTCAGCTTTTATAGCAGTCTTATGCAGCATCTCA
AACCCTGCCCATATTCTCCCTTCTATTCACTGTAATTCCCTATGACTTGCTAATGAATAC[CA]GTATTTTTTTCTGCATATCTGTCAGCTTTTATAGCAGTCTTA
6623 IS [CA] TGCAGCATCTCAGTGATT MULTIPLE MULTIPLE
6689 I A GGTTGAAGTCAGATTTGCAGCTTTCTAGGCAGGAGAA
6689 P T A CGCGCCGAGGTAAGACAATCTGCATCTTCACY
6689 P C A ATGACGTGGCAGACCAAGACAATCTGCATCTTCAY
6689 T T A TCCTGTGAAGATGCAGATTGTCTTATCTCCTGCCTAGAAAGCTGCAAATCTGACTTCAACCTC
6689 T C A TCCTGTGAAGATGCAGATTGTCTTGTCTCCTGCCTAGAAAGCTGCAAATCTGACTTCAACCTC
GAAGGACATGAATAAAGCACAGGAGGTTGAAGTCAGATTTGCAGCTTTCTAGGCAGGAGA[TC]AAGACAATCTGCATCTTCACAGGAGGGATGGCCATGCT
6689 IS [TC] CCTGGGGGCATCAGTGCTGATT ctg12369 1
6693 I A AGGGAGACGTGGACAGAAAGGGGAAAAAAGAAAAGAGC
6693 P G A ATGACGTGGCAGACGAGTGAGAGAGACCTGCY
6693 P T A CGCGCCGAGGTAGTGAGAGAGACCTGCY
6693 T G A CTACGCAGGTCTCTCTCACTCCTCTTTTCTTTTTTCCCCTTTCTGTCCACGTCTCCCTTC
6693 T T A CTACGCAGGTCTCTCTCACTACTCTTTTCTTTTTTCCCCTTTCTGTCCACGTCTCCCTTC

FIGURE 129E



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FIGURE 129E

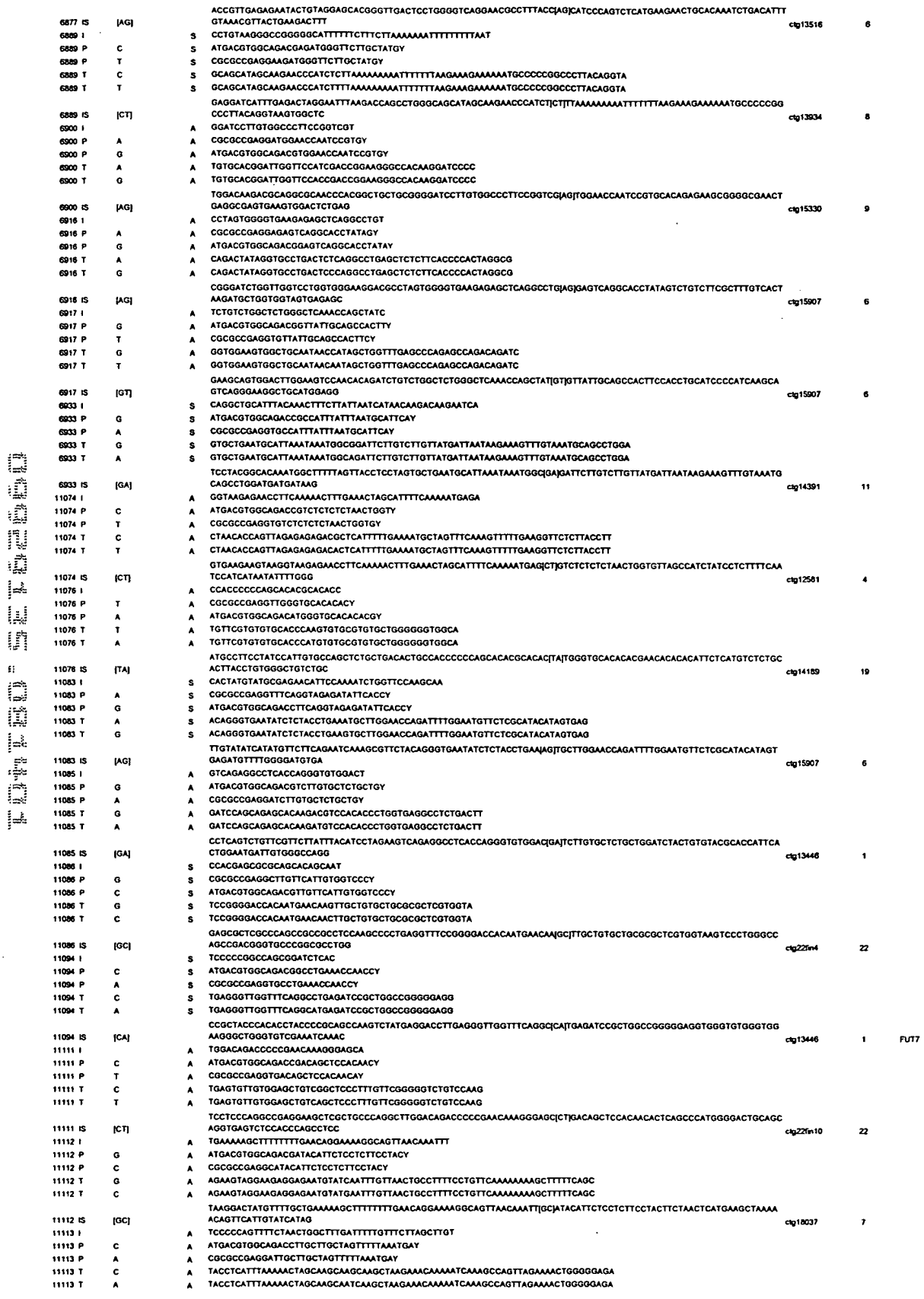

ACCGTTGAGAGAATACTGTAGGAGCACGGGTTGACTCCTGGGGTCAGGAACGCCTTTACC[AG]CATCCCAGTCTCATGAAGAACTGCACAAATCTGACATTT
6877 IS [AG] GTAAACGTTACTGAAGACTTT ctg13516 6
6889 I S CCTGTAAGGGCCGGGGGCATTTTTTCTTTCTTAAAAAAATTTTTTTTTAAT
6889 P C S ATGACGTGGCAGACGAGATGGGTTCTTGCTATGY
6889 P T S CGCGCCGAGGAAGATGGGTTCTTGCTATGY
6889 T C S GCAGCATAGCAAGAACCCATCTCTTAAAAAAAAATTTTTTTAAGAAAGAAAAAATGCCCCCGGCCCTTACAGGTA
6889 T T S GCAGCATAGCAAGAACCCATCTTTTAAAAAAAAATTTTTTTAAGAAAGAAAAAATGCCCCCGGCCCTTACAGGTA
GAGGATCATTTGAGACTAGGAATTTAAGACCAGCCTGGGCAGCATAGCAAGAACCCATCT[CT]TTAAAAAAAAATTTTTTTAAGAAAGAAAAAATGCCCCCGG
6889 IS [CT] CCCTTACAGGTAAGTGGCTC ctg13934 8
6900 I A GGATCCTTGTGGCCCTTCCGGTCGT
6900 P A A CGCGCCGAGGATGGAACCAATCCGTGY
6900 P G A ATGACGTGGCAGACGTGGAACCAATCCGTGY
6900 T A A TGTGCACGGATTGGTTCCATCGACCGGAAGGGCCACAAGGATCCCC
6900 T G A TGTGCACGGATTGGTTCCACCGACCGGAAGGGCCACAAGGATCCCC
TGGACAAGACGCAGGCGCAACCCACGGCTGCTGCGGGGATCCTTGTGGCCCTTCCGGTCG[AG]TGGAACCAATCCGTGCACAGAGAAGCGGGGCGAACT
6900 IS [AG] GAGGCGAGTGAAGTGGACTCTGAG ctg15330 9
6916 I A CCTAGTGGGGTGAAGAGAGCTCAGGCCTGT
6916 P A A CGCGCCGAGGAGAGTCAGGCACCTATAGY
6916 P G A ATGACGTGGCAGACGGAGTCAGGCACCTATAY
6916 T A A CAGACTATAGGTGCCTGACTCTCAGGCCTGAGCTCTCTTCACCCCACTAGGCG
6916 T G A CAGACTATAGGTGCCTGACTCCCAGGCCTGAGCTCTCTTCACCCCACTAGGCG
CGGGATCTGGTTGGTCCTGGTGGGAAGGACGCCTAGTGGGGTGAAGAGAGCTCAGGCCTG[AG]GAGTCAGGCACCTATAGTCTGTCTTCGCTTTGTCACT
6916 IS [AG] AAGATGCTGGTGGTAGTGAGAGC ctg15907 6
6917 I A TCTGTCTGGCTCTGGGCTCAAACCAGCTATC
6917 P G A ATGACGTGGCAGACGGTTATTGCAGCCACTTY
6917 P T A CGCGCCGAGGTGTTATTGCAGCCACTTCY
6917 T G A GGTGGAAGTGGCTGCAATAACCATAGCTGGTTTGAGCCCAGAGCCAGACAGATC
6917 T T A GGTGGAAGTGGCTGCAATAACAATAGCTGGTTTGAGCCCAGAGCCAGACAGATC
GAAGCAGTGGACTTGGAAGTCCAACACAGATCTGTCTGGCTCTGGGCTCAAACCAGCTAT[GT]GTTATTGCAGCCACTTCCACCTGCATCCCCATCAAGCA
6917 IS [GT] GTCAGGGAAGGCTGCATGGAGG ctg15907 6
6933 I S CAGGCTGCATTTACAAACTTTCTTATTAATCATAACAAGACAAGAATCA
6933 P G S ATGACGTGGCAGACCGCCATTTATTTAATGCATTCAY
6933 P A S CGCGCCGAGGTGCCATTTATTTAATGCATTCAY
6933 T G S GTGCTGAATGCATTAAATAAATGGCGGATTCTTGTCTTGTTATGATTAATAAGAAAGTTTGTAAATGCAGCCTGGA
6933 T A S GTGCTGAATGCATTAAATAAATGGCAGATTCTTGTCTTGTTATGATTAATAAGAAAGTTTGTAAATGCAGCCTGGA
TCCTACGGCACAAATGGCTTTTTAGTTACCTCCTAGTGCTGAATGCATTAAATAAATGGC[GA]GATTCTTGTCTTGTTATGATTAATAAGAAAGTTTGTAAATG
6933 IS [GA] CAGCCTGGATGATGATAAG ctg14391 11
11074 I A GGTAAGAGAACCTTCAAAAACTTTGAAACTAGCATTTTCAAAAATGAGA
11074 P C A ATGACGTGGCAGACCGTCTCTCTCTAACTGGTY
11074 P T A CGCGCCGAGGTGTCTCTCTCTAACTGGTGY
11074 T C A CTAACACCAGTTAGAGAGAGACGCTCATTTTTGAAAATGCTAGTTTCAAAGTTTTTGAAGGTTCTCTTACCTT
11074 T T A CTAACACCAGTTAGAGAGAGACACTCATTTTTGAAAATGCTAGTTTCAAAGTTTTTGAAGGTTCTCTTACCTT
GTGAAGAAGTAAGGTAAGAGAACCTTCAAAAACTTTGAAACTAGCATTTTCAAAAATGAG[CT]GTCTCTCTCTAACTGGTGTTAGCCATCTATCCTCTTTTCAA
11074 IS [CT] TCCATCATAATATTTTGGG ctg12581 4
11076 I A CCACCCCCCAGCACACGCACACC
11076 P T A CGCGCCGAGGTTGGGTGCACACACY
11076 P A A ATGACGTGGCAGACATGGGTGCACACACGY
11076 T T A TGTTCGTGTGTGCACCCAAGTGTGCGTGTGCTGGGGGGTGGCA
11076 T A A TGTTCGTGTGTGCACCCATGTGTGCGTGTGCTGGGGGGTGGCA
ATGCCTTCCTATCCATTGTGCCAGCTCTGCTGACACTGCCACCCCCCAGCACACGCACAC[TA]TGGGTGCACACACGAACACACACATTCTCATGTCTCTGC
11076 IS [TA] ACTTACCTGTGGGCTGTCTGC ctg14189 19
11083 I S CACTATGTATGCGAGAACATTCCAAAATCTGGTTCCAAGCAA
11083 P A S CGCGCCGAGGTTTCAGGTAGAGATATTCACCY
11083 P G S ATGACGTGGCAGACCTTCAGGTAGAGATATTCACCY
11083 T A S ACAGGGTGAATATCTCTACCTGAAATGCTTGGAACCAGATTTTGGAATGTTCTCGCATACATAGTGAG
11083 T G S ACAGGGTGAATATCTCTACCTGAAGTGCTTGGAACCAGATTTTGGAATGTTCTCGCATACATAGTGAG
TTGTATATCATATGTTCTTCAGAATCAAAGCGTTCTACAGGGTGAATATCTCTACCTGAA[AG]TGCTTGGAACCAGATTTTGGAATGTTCTCGCATACATAGT
11083 IS [AG] GAGATGTTTTGGGGATGTGA ctg15907 6
11085 I A GTCAGAGGCCTCACCAGGGTGTGGACT
11085 P G A ATGACGTGGCAGACGTCTTGTGCTCTGCTGY
11085 P A A CGCGCCGAGGATCTTGTGCTCTGCTGY
11085 T G A GATCCAGCAGAGCACAAGACGTCCACACCCTGGTGAGGCCTCTGACTT
11085 T A A GATCCAGCAGAGCACAAGATGTCCACACCCTGGTGAGGCCTCTGACTT
CCTCAGTCTGTTCGTTCTTATTTACATCCTAGAAGTCAGAGGCCTCACCAGGGTGTGGAC[GA]TCTTGTGCTCTGCTGGATCTACTGTGTACGCACCATTCA
11085 IS [GA] CTGGAATGATTGTGGGCCAGG ctg13446 1
11086 I S CCACGAGCGCGCAGCACAGCAAT
11086 P G S CGCGCCGAGGCTTGTTCATTGTGGTCCCY
11086 P C S ATGACGTGGCAGACGTTGTTCATTGTGGTCCCY
11086 T G S TCCGGGGACCACAATGAACAAGTTGCTGTGCTGCGCGCTCGTGGTA
11086 T C S TCCGGGGACCACAATGAACAACTTGCTGTGCTGCGCGCTCGTGGTA
GAGCGCTCGCCCAGCCGCCGCCTCCAAGCCCCTGAGGTTTCCGGGGACCACAATGAACAA[GC]TTGCTGTGCTGCGCGCTCGTGGTAAGTCCCTGGGCC
11086 IS [GC] AGCCGACGGGTGCCCGGCGCCTGG ctg22fin4 22
11094 I S TCCCCCGGCCAGCGGATCTCAC
11094 P C S ATGACGTGGCAGACGGCCTGAAACCAACCY
11094 P A S CGCGCCGAGGTGCCTGAAACCAACCY
11094 T C S TGAGGGTTGGTTTCAGGCCTGAGATCCGCTGGCCGGGGGAGG
11094 T A S TGAGGGTTGGTTTCAGGCATGAGATCCGCTGGCCGGGGGAGG
CCGCTACCCACACCTACCCCGCAGCCAAGTCTATGAGGACCTTGAGGGTTGGTTTCAGGC[CA]TGAGATCCGCTGGCCGGGGGAGGTGGGTGTGGGTGG
11094 IS [CA] AAGGGCTGGGTGTCGAAATCAAAC ctg13446 1 FUT7
11111 I A TGGACAGACCCCCGAACAAAGGGAGCA
11111 P C A ATGACGTGGCAGACCGACAGCTCCACAACY
11111 P T A CGCGCCGAGGTGACAGCTCCACAACAY
11111 T C A TGAGTGTTGTGGAGCTGTCGGCTCCCTTTGTTCGGGGGTCTGTCCAAG
11111 T T A TGAGTGTTGTGGAGCTGTCAGCTCCCTTTGTTCGGGGGTCTGTCCAAG
TCCTCCCAGGCCGAGGAAGCTCGCTGCCCAGGCTTGGACAGACCCCCGAACAAAGGGAGC[CT]GACAGCTCCACAACACTCAGCCCATGGGGACTGCAGC
11111 IS [CT] AGGTGAGTCTCCACCCAGCCTCC ctg22fin10 22
11112 I A TGAAAAAGCTTTTTTTTGAACAGGAAAAGGCAGTTAACAAATTT
11112 P G A ATGACGTGGCAGACGATACATTCTCCTCTTCCTACY
11112 P C A CGCGCCGAGGCATACATTCTCCTCTTCCTACY
11112 T G A AGAAGTAGGAAGAGGAGAATGTATCAATTTGTTAACTGCCTTTTCCTGTTCAAAAAAAAGCTTTTTCAGC
11112 T C A AGAAGTAGGAAGAGGAGAATGTATGAATTTGTTAACTGCCTTTTCCTGTTCAAAAAAAAGCTTTTTCAGC
TAAGGACTATGTTTTGCTGAAAAAGCTTTTTTTTGAACAGGAAAAGGCAGTTAACAAATT[GC]ATACATTCTCCTCTTCCTACTTCTAACTCATGAAGCTAAAA
11112 IS [GC] ACAGTTCATTGTATCATAG ctg18037 7
11113 I A TCCCCCAGTTTTCTAACTGGCTTTGATTTTTGTTTCTTAGCTTGT
11113 P C A ATGACGTGGCAGACCTTGCTTGCTAGTTTTTAAATGAY
11113 P A A CGCGCCGAGGATTGCTTGCTAGTTTTTAAATGAY
11113 T C A TACCTCATTTAAAAACTAGCAAGCAAGCAAGCTAAGAAACAAAAATCAAAGCCAGTTAGAAAACTGGGGGAGA
11113 T A A TACCTCATTTAAAAACTAGCAAGCAATCAAGCTAAGAAACAAAAATCAAAGCCAGTTAGAAAACTGGGGGAGA

FIGURE 129E

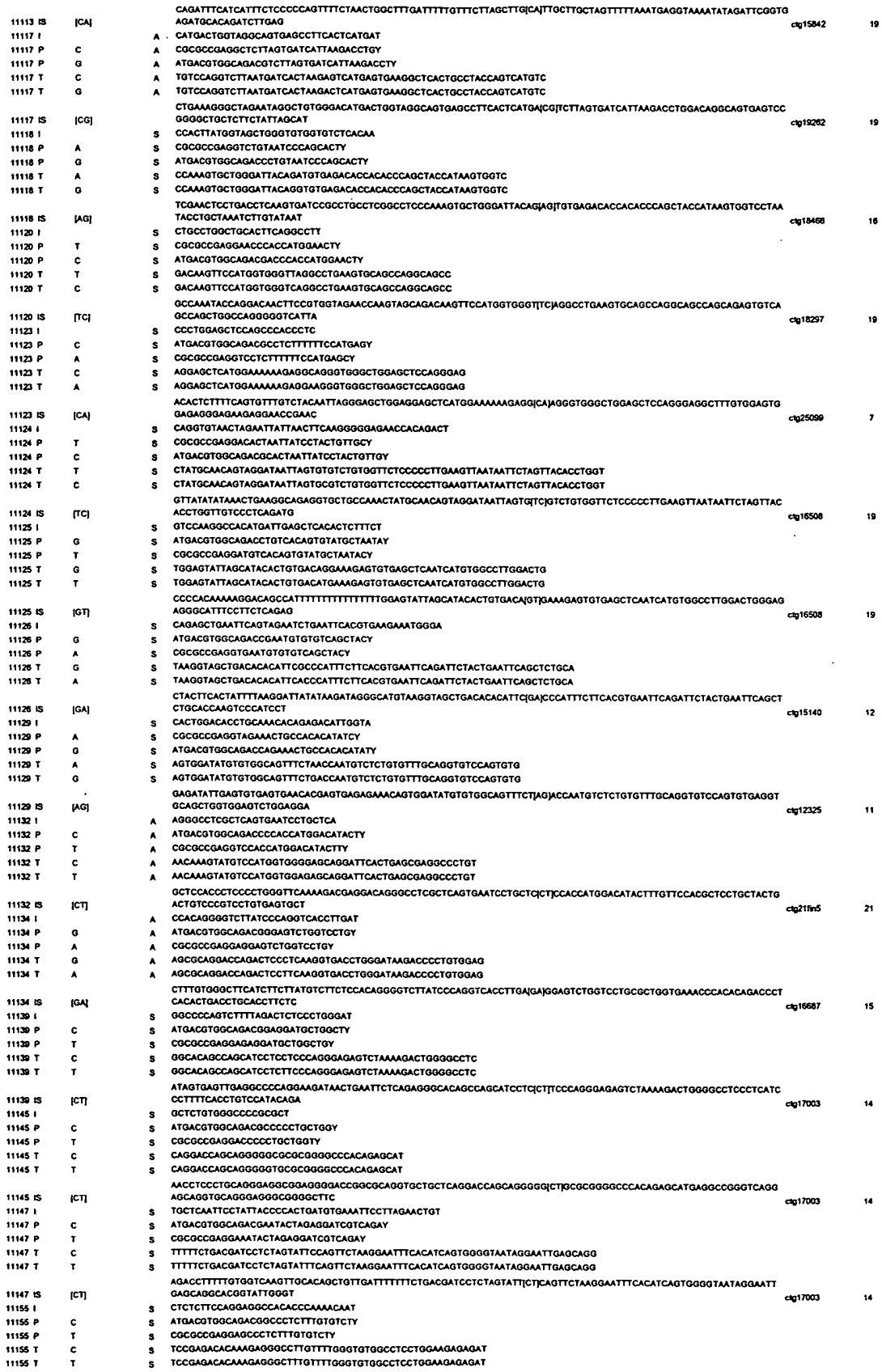

11113 IS [CA] CAGATTTCATCATTTCTCCCCCAGTTTTCTAACTGGCTTTGATTTTTGTTTCTTAGCTTG[CA]TTGCTTGCTAGTTTTTAAATGAGGTAAAATATAGATTCGGTG AGATGCACAGATCTTGAG ctg15842 19
11117 I A CATGACTGGTAGGCAGTGAGCCTTCACTCATGAT
11117 P C A CGCGCCGAGGCTCTTAGTGATCATTAAGACCTGY
11117 P G A ATGACGTGGCAGACGTCTTAGTGATCATTAAGACCTY
11117 T C A TGTCCAGGTCTTAATGATCACTAAGAGTCATGAGTGAAGGCTCACTGCCTACCAGTCATGTC
11117 T G A TGTCCAGGTCTTAATGATCACTAAGACTCATGAGTGAAGGCTCACTGCCTACCAGTCATGTC
11117 IS [CG] CTGAAAGGGCTAGAATAGGCTGTGGGACATGACTGGTAGGCAGTGAGCCTTCACTCATGA[CG]TCTTAGTGATCATTAAGACCTGGACAGGCAGTGAGTCC GGGGCTGCTCTTCTATTAGCAT ctg19262 19
11118 I S CCACTTATGGTAGCTGGGTGTGGTGTCTCACAA
11118 P A S CGCGCCGAGGTCTGTAATCCCAGCACTY
11118 P G S ATGACGTGGCAGACCCTGTAATCCCAGCACTY
11118 T A S CCAAAGTGCTGGGATTACAGATGTGAGACACCACACCCAGCTACCATAAGTGGTC
11118 T G S CCAAAGTGCTGGGATTACAGGTGTGAGACACCACACCCAGCTACCATAAGTGGTC
11118 IS [AG] TCGAACTCCTGACCTCAAGTGATCCGCCTGCCTCGGCCTCCCAAAGTGCTGGGATTACAG[AG]TGTGAGACACCACACCCAGCTACCATAAGTGGTCCTAA TACCTGCTAAATCTTGTATAAT ctg18468 16
11120 I S CTGCCTGGCTGCACTTCAGGCCTT
11120 P T S CGCGCCGAGGAACCCACCATGGAACTY
11120 P C S ATGACGTGGCAGACGACCCACCATGGAACTY
11120 T T S GACAAGTTCCATGGTGGGTTAGGCCTGAAGTGCAGCCAGGCAGCC
11120 T C S GACAAGTTCCATGGTGGGTCAGGCCTGAAGTGCAGCCAGGCAGCC
11120 IS [TC] GCCAAATACCAGGACAACTTCCGTGGTAGAACCAAGTAGCAGACAAGTTCCATGGTGGGT[TC]AGGCCTGAAGTGCAGCCAGGCAGCCAGCAGAGTGTCA GCCAGCTGGCCAGGGGGTCATTA ctg18297 19
11123 I S CCCTGGAGCTCCAGCCCACCCTC
11123 P C S ATGACGTGGCAGACGCCTCTTTTTTCCATGAGY
11123 P A S CGCGCCGAGGTCCTCTTTTTTCCATGAGCY
11123 T C S AGGAGCTCATGGAAAAAAGAGGCAGGGTGGGCTGGAGCTCCAGGGAG
11123 T A S AGGAGCTCATGGAAAAAAGAGGAAGGGTGGGCTGGAGCTCCAGGGAG
11123 IS [CA] ACACTCTTTTCAGTGTTTGTCTACAATTAGGGAGCTGGAGGAGCTCATGGAAAAAAGAGG[CA]AGGGTGGGCTGGAGCTCCAGGGAGGCTTTGTGGAGTG GAGAGGGAGAAGAGGAACCGAAC ctg25099 7
11124 I S CAGGTGTAACTAGAATTATTAACTTCAAGGGGGAGAACCACAGACT
11124 P T S CGCGCCGAGGACACTAATTATCCTACTGTTGCY
11124 P C S ATGACGTGGCAGACGCACTAATTATCCTACTGTTGY
11124 T T S CTATGCAACAGTAGGATAATTAGTGTGTCTGTGGTTCTCCCCCTTGAAGTTAATAATTCTAGTTACACCTGGT
11124 T C S CTATGCAACAGTAGGATAATTAGTGCGTCTGTGGTTCTCCCCCTTGAAGTTAATAATTCTAGTTACACCTGGT
11124 IS [TC] GTTATATATAAACTGAAGGCAGAGGTGCTGCCAAACTATGCAACAGTAGGATAATTAGTG[TC]GTCTGTGGTTCTCCCCCTTGAAGTTAATAATTCTAGTTAC ACCTGGTTGTCCCTCAGATG ctg16508 19
11125 I S GTCCAAGGCCACATGATTGAGCTCACACTCTTTCT
11125 P G S ATGACGTGGCAGACCTGTCACAGTGTATGCTAATAY
11125 P T S CGCGCCGAGGATGTCACAGTGTATGCTAATACY
11125 T G S TGGAGTATTAGCATACACTGTGACAGGAAAGAGTGTGAGCTCAATCATGTGGCCTTGGACTG
11125 T T S TGGAGTATTAGCATACACTGTGACATGAAAGAGTGTGAGCTCAATCATGTGGCCTTGGACTG
11125 IS [GT] CCCCACAAAAAGGACAGCCATTTTTTTTTTTTTTTTGGAGTATTAGCATACACTGTGACA[GT]GAAAGAGTGTGAGCTCAATCATGTGGCCTTGGACTGGGAG AGGGCATTTCCTTCTCAGAG ctg16508 19
11126 I S CAGAGCTGAATTCAGTAGAATCTGAATTCACGTGAAGAAATGGGA
11126 P G S ATGACGTGGCAGACCGAATGTGTGTCAGCTACY
11126 P A S CGCGCCGAGGTGAATGTGTGTCAGCTACY
11126 T G S TAAGGTAGCTGACACACATTCGCCCATTTCTTCACGTGAATTCAGATTCTACTGAATTCAGCTCTGCA
11126 T A S TAAGGTAGCTGACACACATTCACCCATTTCTTCACGTGAATTCAGATTCTACTGAATTCAGCTCTGCA
11126 IS [GA] CTACTTCACTATTTTAAGGATTATATAAGATAGGGCATGTAAGGTAGCTGACACACATTC[GA]CCCATTTCTTCACGTGAATTCAGATTCTACTGAATTCAGCT CTGCACCAAGTCCCATCCT ctg15140 12
11129 I S CACTGGACACCTGCAAACACAGAGACATTGGTA
11129 P A S CGCGCCGAGGTAGAAACTGCCACACATATCY
11129 P G S ATGACGTGGCAGACCAGAAACTGCCACACATATY
11129 T A S AGTGGATATGTGTGGCAGTTTCTAACCAATGTCTCTGTGTTTGCAGGTGTCCAGTGTG
11129 T G S AGTGGATATGTGTGGCAGTTTCTGACCAATGTCTCTGTGTTTGCAGGTGTCCAGTGTG
11129 IS [AG] GAGATATTGAGTGTGAGTGAACACGAGTGAGAGAAACAGTGGATATGTGTGGCAGTTTCT[AG]ACCAATGTCTCTGTGTTTGCAGGTGTCCAGTGTGAGGT GCAGCTGGTGGAGTCTGGAGGA ctg12325 11
11132 I A AGGGCCTCGCTCAGTGAATCCTGCTCA
11132 P C A ATGACGTGGCAGACCCCACCATGGACATACTY
11132 P T A CGCGCCGAGGTCCACCATGGACATACTTY
11132 T C A AACAAAGTATGTCCATGGTGGGGAGCAGGATTCACTGAGCGAGGCCCTGT
11132 T T A AACAAAGTATGTCCATGGTGGAGAGCAGGATTCACTGAGCGAGGCCCTGT
11132 IS [CT] GCTCCACCCTCCCCTGGGTTCAAAAGACGAGGACAGGGCCTCGCTCAGTGAATCCTGCTC[CT]CCACCATGGACATACTTTGTTCCACGCTCCTGCTACTG ACTGTCCCGTCCTGTGAGTGCT ctg21fin5 21
11134 I A CCACAGGGGTCTTATCCCAGGTCACCTTGAT
11134 P G A ATGACGTGGCAGACGGGAGTCTGGTCCTGY
11134 P A A CGCGCCGAGGAGGAGTCTGGTCCTGY
11134 T G A AGCGCAGGACCAGACTCCCTCAAGGTGACCTGGGATAAGACCCCTGTGGAG
11134 T A A AGCGCAGGACCAGACTCCTTCAAGGTGACCTGGGATAAGACCCCTGTGGAG
11134 IS [GA] CTTTGTGGGCTTCATCTTCTTATGTCTTCTCCACAGGGGTCTTATCCCAGGTCACCTTGA[GA]GGAGTCTGGTCCTGCGCTGGTGAAACCCACACAGACCCT CACACTGACCTGCACCTTCTC ctg16687 15
11139 I S GGCCCCAGTCTTTTAGACTCTCCCTGGGAT
11139 P C S ATGACGTGGCAGACGGAGGATGCTGGCTY
11139 P T S CGCGCCGAGGAGAGGATGCTGGCTGY
11139 T C S GGCACAGCCAGCATCCTCCTCCCAGGGAGAGTCTAAAAGACTGGGGCCTC
11139 T T S GGCACAGCCAGCATCCTCTTCCCAGGGAGAGTCTAAAAGACTGGGGCCTC
11139 IS [CT] ATAGTGAGTTGAGGCCCCAGGAAGATAACTGAATTCTCAGAGGGCACAGCCAGCATCCTC[CT]TCCCAGGGAGAGTCTAAAAGACTGGGGCCTCCCTCATC CCTTTTCACCTGTCCATACAGA ctg17003 14
11145 I S GCTCTGTGGGCCCCGCGCT
11145 P C S ATGACGTGGCAGACGCCCCCTGCTGGY
11145 P T S CGCGCCGAGGACCCCCTGCTGGTY
11145 T C S CAGGACCAGCAGGGGGCGCGCGGGGCCCACAGAGCAT
11145 T T S CAGGACCAGCAGGGGGTGCGCGGGGCCCACAGAGCAT
11145 IS [CT] AACCTCCCTGCAGGGAGGCGGAGGGGACCGGCGCAGGTGCTGCTCAGGACCAGCAGGGGG[CT]GCGCGGGGCCCACAGAGCATGAGGCCGGGTCAGG AGCAGGTGCAGGGAGGGCGGGGCTTC ctg17003 14
11147 I S TGCTCAATTCCTATTACCCCACTGATGTGAAATTCCTTAGAACTGT
11147 P C S ATGACGTGGCAGACGAATACTAGAGGATCGTCAGAY
11147 P T S CGCGCCGAGGAAATACTAGAGGATCGTCAGAY
11147 T C S TTTTTCTGACGATCCTCTAGTATTCCAGTTCTAAGGAATTTCACATCAGTGGGGTAATAGGAATTGAGCAGG
11147 T T S TTTTTCTGACGATCCTCTAGTATTTCAGTTCTAAGGAATTTCACATCAGTGGGGTAATAGGAATTGAGCAGG
11147 IS [CT] AGACCTTTTTGTGGTCAAGTTGCACAGCTGTTGATTTTTTTCTGACGATCCTCTAGTATT[CT]CAGTTCTAAGGAATTTCACATCAGTGGGGTAATAGGAATT GAGCAGGCACGGTATTGGGT ctg17003 14
11155 I S CTCTCTTCCAGGAGGCCACACCCAAAACAAT
11155 P C S ATGACGTGGCAGACGGCCCTCTTTGTGTCTY
11155 P T S CGCGCCGAGGAGCCCTCTTTGTGTCTY
11155 T C S TCCGAGACACAAAGAGGGCCTTGTTTTGGGTGTGGCCTCCTGGAAGAGAGAT
11155 T T S TCCGAGACACAAAGAGGGCTTTGTTTTGGGTGTGGCCTCCTGGAAGAGAGAT

FIGURE 129E

				TTAACAGGGGCAGCCGGCGGAGCACTATACGGCCACTGTTCTCCGAGACACAAAGAGGGC[CT]TTGTTTTGGGTGTGGCCTCCTGGAAGAGAGATGGGGA			
11155	tS	[CT]		GTACAGGCTGCTCCACACCGTCC	ctg2846	11	
11160	I		S	GGATCAGCAAAGGCCTAAGGCCAGGTACCT			
11160	P	C	S	ATGACGTGGCAGACGTGGGTCATGCCTGTY			
11160	P	T	S	CGCGCCGAGGATGGGTCATGCCTGTAY			
11160	T	C	S	TGATTACAGGCATGACCCACGGTACCTGGCCTTAGGCCTTTGCTGATCCAT			
11160	T	T	S	TGATTACAGGCATGACCCATGGTACCTGGCCTTAGGCCTTTGCTGATCCAT			
				GGGTTCAATAGATTCTCTTGTTTTGGCCTCCCAAAGTGCCGTGATTACAGGCATGACCCA[CT]GGTACCTGGCCTTAGGCCTTTGCTGATCCATCGGCCCTC			
11160	tS	[CT]		TCAGTACTTCCCTTGGTGTAT	ctg22fin3	22	
11211	I		S	GCCATGTGTGTGGATGTGCACGTTTTGGTA			
11211	P	G	S	ATGACGTGGCAGACCTGAGAACTTACAAGCCTAAAY			
11211	P	A	S	CGCGCCGAGGTTGAGAACTTACAAGCCTAAAY			
11211	T	G	S	TGACTTTAGGCTTGTAAGTTCTCAGACCAAAACGTGCACATCCACACACATGGCAC			
11211	T	A	S	TGACTTTAGGCTTGTAAGTTCTCAAACCAAAACGTGCACATCCACACACATGGCAC			
				GAACGGGAAGCATACGGGTAGGGGAGGCATCAGTCGTGACTTTAGGCTTGTAAGTTCTCA[GA]ACCAAAACGTGCACATCCACACACATGGCACCGCAGCC			
11211	tS	[GA]		AAGCAGAGGCCGGTGAAAGGCA	ctg22fin3	22	
11213	I		A	CCTTCCACTGGACTGATCTCCTTACTGCCCCT			
11213	P	G	A	ATGACGTGGCAGACGGGCCTCAGTTTCCTY			
11213	P	A	A	CGCGCCGAGGAGGCCTCAGTTTCCTCY			
11213	T	G	A	AGATGAGGAAACTGAGGCCCGGGGCAGTAAGGAGATCAGTCCAGTGGAAGGCC			
11213	T	A	A	AGATGAGGAAACTGAGGCCTGGGGCAGTAAGGAGATCAGTCCAGTGGAAGGCC			
				GAGGACAGTGCAGGAAGCCAGGCCTGTGGCCTTCCACTGGACTGATCTCCTTACTGCCCC[GA]GGCCTCAGTTTCCTCATCTGTCTTTTGGGTTAAACGGG			
11213	tS	[GA]		GTCGTGGCGAGGATTAAGACAG	ctg22fin6	22	
11226	I		S	CGAGGCGGGCTCACCCGGGT			
11226	P	G	S	ATGACGTGGCAGACCCCTGGGTTCGCTY			
11226	P	T	S	CGCGCCGAGGACCTGGGTTCGCTCY			
11226	T	G	S	ATCAGAGCGAACCCAGGGCCCGGGTGAGCCCGCCTCGGC			
11226	T	T	S	ATCAGAGCGAACCCAGGTCCCGGGTGAGCCCGCCTCGGC			
				GTCATCTGCCAGCTCTCCAAGGAGCTGGCGGGAAACCGCTGCAATCAGAGCGAACCCAGG[GT]CCCGGGTGAGCCCGCCTCGGCACAGCACTCCAGCTG			
11226	tS	[GT]		CCCCCAGTGCCTTTTGGGGACACA	ctg22fin4	22	
11242	I		A	CTCTGACCAGAGCTTCTAGAAGCGTTTCCCTCTCA			
11242	P	C	A	ATGACGTGGCAGACCGTGGGCAGCCCY			
11242	P	T	A	CGCGCCGAGGTGTGGGCAGCCCY			
11242	T	C	A	GCTGGGGCTGCCCACGGAGAGGGAAACGCTTCTAGAAGCTCTGGTCAGAGCA			
11242	T	T	A	GCTGGGGCTGCCCACAGAGAGGGAAACGCTTCTAGAAGCTCTGGTCAGAGCA			
				AGCCGGAGTGCACAGAGTCATCCTTGCTCTGACCAGAGCTTCTAGAAGCGTTTCCCTCTC[CT]GTGGGCAGCCCCAGCGGCTTCAGAGAAGAGCAAACCG			
11242	tS	[CT]		CCAGTGCGCTCAGCTGTGAAATT	ctg22fin4	22	
11243	I		S	TGCCCAGACAGCTACACTGAGAGACCTCCA			
11243	P	G	S	ATGACGTGGCAGACCGACTGGAGAAGAAGGCY			
11243	P	A	S	CGCGCCGAGGTGACTGGAGAAGAAGGCY			
11243	T	G	S	CCGGGCCTTCTTCTCCAGTCGGGAGGTCTCTCAGTGTAGCTGTCTGGGCAGC			
11243	T	A	S	CCGGGCCTTCTTCTCCAGTCAGGAGGTCTCTCAGTGTAGCTGTCTGGGCAGC			
				AGCTGTGAAATTGTCTCTGACAGGCCTGACCCTGGAGGCCCCGGGCCTTCTTCTCCAGTC[GA]GGAGGTCTCTCAGTGTAGCTGTCTGGGCAGCCCTTGG			
11243	tS	[GA]		CATGGCTAGAGCTGTGCTCCTGC	ctg22fin4	22	
11244	I		S	CGTGGTCCCCGCTTCCCTCCCTCA			
11244	P	A	S	CGCGCCGAGGTATGTCCGATGAGGCTGY			
11244	P	G	S	ATGACGTGGCAGACCATGTCCGATGAGGCTY			
11244	T	A	S	GGCACAGCCTCATCGGACATAGAGGGAGGGAAGCGGGGACCACGCC			
11244	T	G	S	GGCACAGCCTCATCGGACATGGAGGGAGGGAAGCGGGGACCACGCC			
				ACCAGAAGCTGGCTCTGAGGTTTCCTGTGCAAGGGAACTTGGCACAGCCTCATCGGACAT[AG]GAGGGAGGGAAGCGGGGACCACGCCCTGCAGCTTCAC			
11244	tS	[AG]		ACCTGTCGCTGCTGCTCTGGGTG	MULTIPLE	MULTIPLE	
11247	I		S	GACCATGGGCGAGGCTCCCCACT			
11247	P	C	S	ATGACGTGGCAGACGCTATCTCCACCACCAY			
11247	P	T	S	CGCGCCGAGGACTATCTCCACCACCACY			
11247	T	C	S	GACTGTGGTGGTGGAGATAGCGTGGGGAGCCTCGCCCATGGTCTC			
11247	T	T	S	GACTGTGGTGGTGGAGATAGTGTGGGGAGCCTCGCCCATGGTCTC			
				TGGAGCCCCAGGCCACAGGCCAGTCTCGCTTGGCTCTCATGACTGTGGTGGTGGAGATAG[CT]GTGGGGAGCCTCGCCCATGGTCTCACGTGGCAAGAA			
11247	tS	[CT]		GTGCCTTTAGCTCTGGATCCCAAC	MULTIPLE	MULTIPLE	GTF3C5
11253	I		A	GGTGATCTGCACTTCACTGTAATATTCTAGGAGTGGATTTCTCAATTTTC			
11253	P	T	A	CGCGCCGAGGTATCATTCCTTGGTAATTTAGATCTY			
11253	P	G	A	ATGACGTGGCAGACGATCATTCCTTGGTAATTTAGATCY			
11253	T	T	A	TCCCAGATCTAAATTACCAAGGAATGATAAAAATTGAGAAATCCACTCCTAGAATATTACAGTGAAGTGCAGATCACCCA			
11253	T	G	A	TCCCAGATCTAAATTACCAAGGAATGATCAAAATTGAGAAATCCACTCCTAGAATATTACAGTGAAGTGCAGATCACCCA			
				CTCCTTTCCTGGGTGATCTGCACTTCACTGTAATATTCTAGGAGTGGATTTCTCAATTTT[TG]ATCATTCCTTGGTAATTTAGATCTGGGATCTCATGTCTTTT			
11253	tS	[TG]		CAATTCTGAAAAATTCTGA	ctg22fin1	22	
11256	I		A	ACCTCTCTTCCTGCACTCTGCCGGCA			
11256	P	C	A	ATGACGTGGCAGACCCCCTAGAAGAAACTTCTGY			
11256	P	T	A	CGCGCCGAGGTCCCTAGAAGAAACTTCTGAY			
11256	T	C	A	AATATCAGAAGTTTCTTCTAGGGGGCCGGCAGAGTGCAGGAAGAGAGGTGG			
11256	T	T	A	AATATCAGAAGTTTCTTCTAGGGAGCCGGCAGAGTGCAGGAAGAGAGGTGG			
				CCGCTCAGCTGTCTTGGGGCCTGGGGGCGGCTCCCACCTCTCTTCCTGCACTCTGCCGGC[CT]CCCTAGAAGAAACTTCTGATATTGATGTTGGGCCCCA			
11256	tS	[CT]		CAGCCCTGCCATTGCCCAATGCA	ctg22fin1	22	
11257	I		S	CCAGCCTGGCTGTTCCTTGTCCCCT			
11257	P	T	S	CGCGCCGAGGACCAGGTTCAACAACGY			
11257	P	C	S	ATGACGTGGCAGACGCCAGGTTCAACAACGY			
11257	T	T	S	TCCTCGTTGTTGAACCTGGTGGGGACAAGGAACAGCCAGGCTGGGG			
11257	T	C	S	TCCTCGTTGTTGAACCTGGCGGGGACAAGGAACAGCCAGGCTGGGG			
				TGAACTGCTGAGACACGGACGCCTGAGGGCAGGTGCAGACATCCTCGTTGTTGAACCTGG[TC]GGGGACAAGGAACAGCCAGGCTGGGGAGCAGCTGAC			
11257	tS	[TC]		GGGCAGGGAGCCCAGTGGGCACCA	MULTIPLE	22	
11258	I		S	CCCAGCCTGGCTGTTCCTTGTCCCT			
11258	P	G	S	CGCGCCGAGGCACCAGGTTCAACAACGY			
11258	P	C	S	ATGACGTGGCAGACGACCAGGTTCAACAACGY			
11258	T	G	S	TCCTCGTTGTTGAACCTGGTGGGGACAAGGAACAGCCAGGCTGGGGA			
11258	T	C	S	TCCTCGTTGTTGAACCTGGTCGGGACAAGGAACAGCCAGGCTGGGGA			
				GAACTGCTGAGACACGGACGCCTGAGGGCAGGTGCAGACATCCTCGTTGTTGAACCTGG[TG]GGGACAAGGAACAGCCAGGCTGGGGAGCAGCTGACG			
11258	tS	[GC]		GGCAGGGAGCCCAGTGGGCACCAG	ctg22fin4	22	
11272	I		A	AGCTTGCAAGGCAGAAAAAGGCAGGAAGAAGTCA			
11272	P	T	A	CGCGCCGAGGTCCTGGGCCATGGY			
11272	P	C	A	ATGACGTGGCAGACCCCTGGGCCATGGY			
11272	T	T	A	CAGCCCATGGCCCAGGAGACTTCTTCCTGCCTTTTTCTGCCTTGCAAGCTGG			
11272	T	C	A	CAGCCCATGGCCCAGGGGACTTCTTCCTGCCTTTTTCTGCCTTGCAAGCTGG			
				CAATCCAGTGGAGTGATCCTTCTGTCCAGCTTGCAAGGCAGAAAAAGGCAGGAAGAAGTC[TC]CCTGGGCCATGGGCTGCCTCTCAGGGTGGGGTTCTTTT			
11272	tS	[TC]		GGGAGCCAGGAACTGTAAGAAA	ctg22fin4	22	
11294	I		S	CTTTCTCCTCCTGTCCTCACAGATACAGGAAGTTACTGTTT			
11294	P	C	S	ATGACGTGGCAGACGCCAGTTTCTAACTTTACTCAY			
11294	P	T	S	CGCGCCGAGGACCAGTTTCTAACTTTACTCAAY			
11294	T	C	S	GGACTTGAGTAAAGTTAGAAACTGGCAACAGTAACTTCCTGTATCTGTGAGGACAGGAGGAGAAAGGC			
11294	T	T	S	GGACTTGAGTAAAGTTAGAAACTGGTAACAGTAACTTCCTGTATCTGTGAGGACAGGAGGAGAAAGGC			

FIGURE 129E

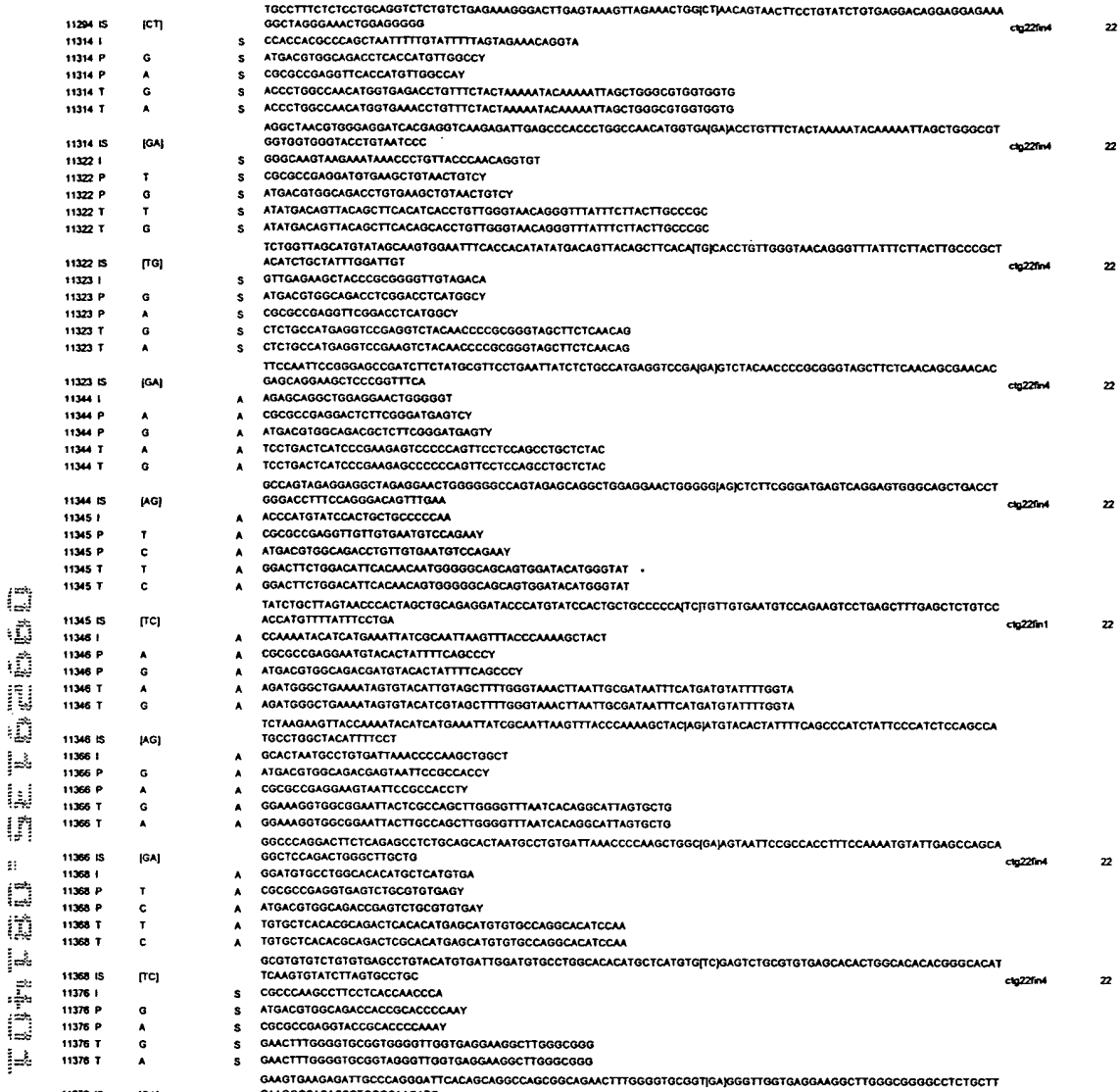


FIGURE 129E

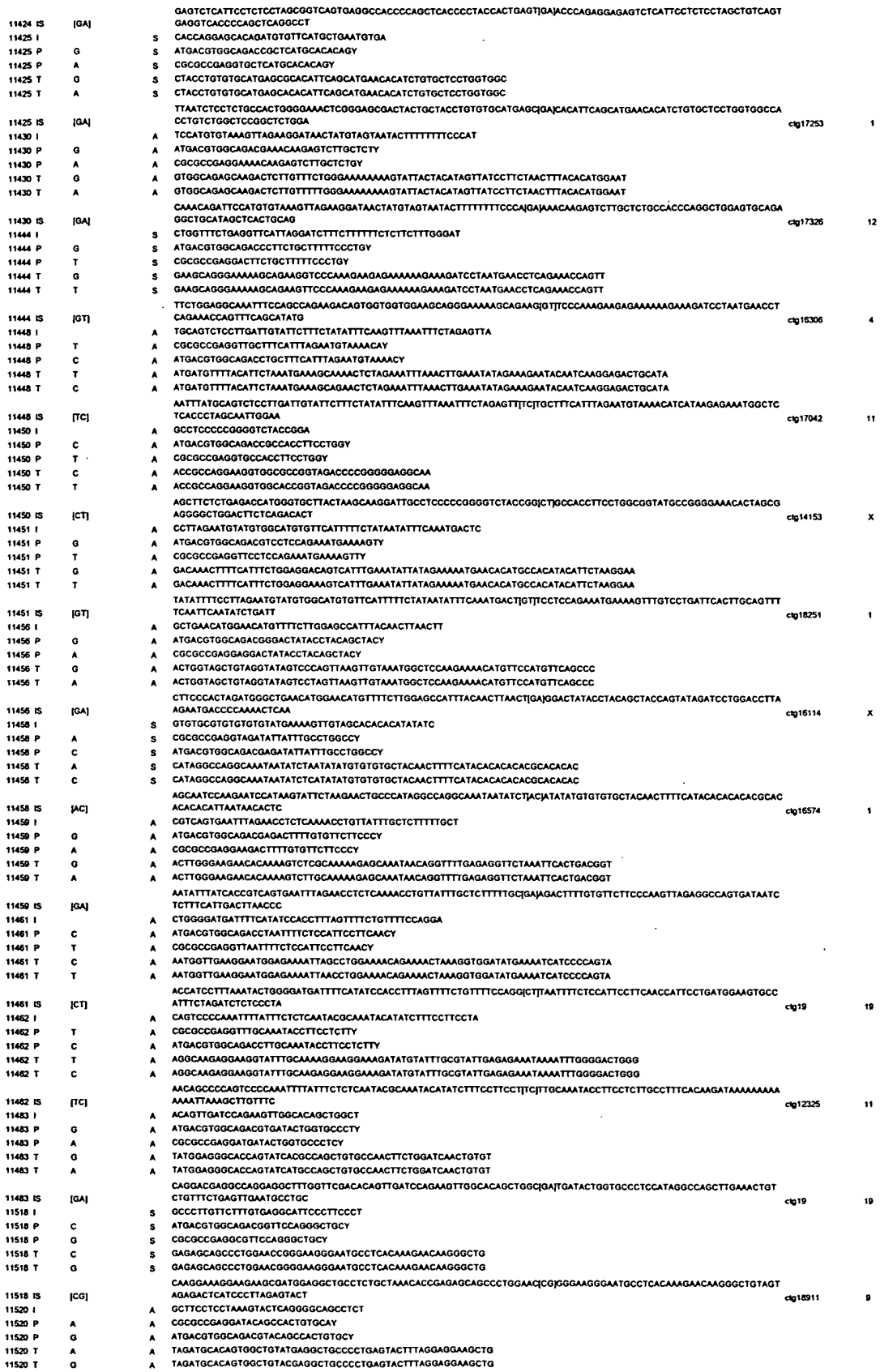

GAGTCTCATTCCTCTCCTAGCGGTCAGTGAGGCCACCCCAGCTCACCCCTACCACTGAGT[GA]ACCCAGAGGAGAGTCTCATTCCTCTCCTAGCTGTCAGT
11424 IS [GA] GAGGTCACCCCAGCTCAGGCCT
11425 I S CACCAGGAGCACAGATGTGTTCATGCTGAATGTGA
11425 P G S ATGACGTGGCAGACCGCTCATGCACACAGY
11425 P A S CGCGCCGAGGTGCTCATGCACACAGY
11425 T G S CTACCTGTGTGCATGAGCGCACATTCAGCATGAACACATCTGTGCTCCTGGTGGC
11425 T A S CTACCTGTGTGCATGAGCACACATTCAGCATGAACACATCTGTGCTCCTGGTGGC
TTAATCTCCTCTGCCACTGGGGAAACTCGGGAGCGACTACTGCTACCTGTGTGCATGAGC[GA]CACATTCAGCATGAACACATCTGTGCTCCTGGTGGCCA
11425 IS [GA] CCTGTCTGGCTCCGGCTCTGGA ctg17253 1
11430 I A TCCATGTGTAAAGTTAGAAGGATAACTATGTAGTAATACTTTTTTTTCCCAT
11430 P G A ATGACGTGGCAGACGAAACAAGAGTCTTGCTCTY
11430 P A A CGCGCCGAGGAAAACAAGAGTCTTGCTCTGY
11430 T G A GTGGCAGAGCAAGACTCTTGTTTCTGGGAAAAAAAAGTATTACTACATAGTTATCCTTCTAACTTTACACATGGAAT
11430 T A A GTGGCAGAGCAAGACTCTTGTTTTTGGGAAAAAAAAGTATTACTACATAGTTATCCTTCTAACTTTACACATGGAAT
CAAACAGATTCCATGTGTAAAGTTAGAAGGATAACTATGTAGTAATACTTTTTTTTCCCA[GA]AAACAAGAGTCTTGCTCTGCCACCCAGGCTGGAGTGCAGA
11430 IS [GA] GGCTGCATAGCTCACTGCAG ctg17326 12
11444 I S CTGGTTTCTGAGGTTCATTAGGATCTTTCTTTTTTCTCTTCTTTGGGAT
11444 P G S ATGACGTGGCAGACCCTTCTGCTTTTTCCCTGY
11444 P T S CGCGCCGAGGACTTCTGCTTTTTCCCTGY
11444 T G S GAAGCAGGGAAAAAGCAGAAGGTCCCAAAGAAGAGAAAAAAGAAAGATCCTAATGAACCTCAGAAACCAGTT
11444 T T S GAAGCAGGGAAAAAGCAGAAGTTCCCAAAGAAGAGAAAAAAGAAAGATCCTAATGAACCTCAGAAACCAGTT
TTCTGGAGGCAAATTTCCAGCCAGAAGACAGTGGTGGTGGAAGCAGGGAAAAAGCAGAAG[GT]TCCCAAAGAAGAGAAAAAAGAAAGATCCTAATGAACCT
11444 IS [GT] CAGAAACCAGTTTCAGCATATG ctg16306 4
11448 I A TGCAGTCTCCTTGATTGTATTCTTTCTATATTTCAAGTTTAAATTTCTAGAGTTA
11448 P T A CGCGCCGAGGTTGCTTTCATTTAGAATGTAAAACAY
11448 P C A ATGACGTGGCAGACCTGCTTTCATTTAGAATGTAAAACY
11448 T T A ATGATGTTTTACATTCTAAATGAAAGCAAAACTCTAGAAATTTAAACTTGAAATATAGAAAGAATACAATCAAGGAGACTGCATA
11448 T C A ATGATGTTTTACATTCTAAATGAAAGCAGAACTCTAGAAATTTAAACTTGAAATATAGAAAGAATACAATCAAGGAGACTGCATA
AATTTATGCAGTCTCCTTGATTGTATTCTTTCTATATTTCAAGTTTAAATTTCTAGAGTT[TC]TGCTTTCATTTAGAATGTAAAACATCATAAGAGAAATGGCTC
11448 IS [TC] TCACCCTAGCAATTGGAA ctg17042 11
11450 I A GCCTCCCCCGGGGTCTACCGGA
11450 P C A ATGACGTGGCAGACCGCCACCTTCCTGGY
11450 P T A CGCGCCGAGGTGCCACCTTCCTGGY
11450 T C A ACCGCCAGGAAGGTGGCGCCGGTAGACCCCGGGGGAGGCAA
11450 T T A ACCGCCAGGAAGGTGGCACCGGTAGACCCCGGGGGAGGCAA
AGCTTCTCTGAGACCATGGGTGCTTACTAAGCAAGGATTGCCTCCCCCGGGGTCTACCGG[CT]GCCACCTTCCTGGCGGTATGCCGGGGAAACACTAGCG
11450 IS [CT] AGGGGCTGGACTTCTCAGACACT ctg14153 X
11451 I A CCTTAGAATGTATGTGGCATGTGTTCATTTTTCTATAATATTTCAAATGACTC
11451 P G A ATGACGTGGCAGACGTCCTCCAGAAATGAAAAGTY
11451 P T A CGCGCCGAGGTTCCTCCAGAAATGAAAAGTTY
11451 T G A GACAAACTTTTCATTTCTGGAGGACAGTCATTTGAAATATTATAGAAAAATGAACACATGCCACATACATTCTAAGGAA
11451 T T A GACAAACTTTTCATTTCTGGAGGAAAGTCATTTGAAATATTATAGAAAAATGAACACATGCCACATACATTCTAAGGAA
TATATTTTCCTTAGAATGTATGTGGCATGTGTTCATTTTTCTATAATATTTCAAATGAC[TG]TCCTCCAGAAATGAAAAGTTTGTCCTGATTCACTTGCAGTTT
11451 IS [GT] TCAATTCAATATCTGATT ctg18251 1
11456 I A GCTGAACATGGAACATGTTTTCTTGGAGCCATTTACAACTTAACTT
11456 P G A ATGACGTGGCAGACGGGACTATACCTACAGCTACY
11456 P A A CGCGCCGAGGAGGACTATACCTACAGCTACY
11456 T G A ACTGGTAGCTGTAGGTATAGTCCCAGTTAAGTTGTAAATGGCTCCAAGAAAACATGTTCCATGTTCAGCCC
11456 T A A ACTGGTAGCTGTAGGTATAGTCCTAGTTAAGTTGTAAATGGCTCCAAGAAAACATGTTCCATGTTCAGCCC
CTTCCCACTAGATGGGCTGAACATGGAACATGTTTTCTTGGAGCCATTTACAACTTAACT[GA]GGACTATACCTACAGCTACCAGTATAGATCCTGGACCTTA
11456 IS [GA] AGAATGACCCCAAAACTCAA ctg16114 X
11458 I S GTGTGCGTGTGTGTATGAAAAGTTGTAGCACACACATATATC
11458 P A S CGCGCCGAGGTAGATATTATTTGCCTGGCCY
11458 P C S ATGACGTGGCAGACGAGATATTATTTGCCTGGCCY
11458 T A S CATAGGCCAGGCAAATAATATCTAATATATGTGTGTGCTACAACTTTTCATACACACACACGCACACAC
11458 T C S CATAGGCCAGGCAAATAATATCTCATATATGTGTGTGCTACAACTTTTCATACACACACACGCACACAC
AGCAATCCAAGAATCCATAAGTATTCTAAGAACTGCCCATAGGCCAGGCAAATAATATCT[AC]ATATATGTGTGTGCTACAACTTTTCATACACACACACGCAC
11458 IS [AC] ACACACATTAATAACACTC ctg16574 1
11459 I A CGTCAGTGAATTTAGAACCTCTCAAAACCTGTTATTTGCTCTTTTTGCT
11459 P G A ATGACGTGGCAGACGAGACTTTTGTGTTCTTCCCY
11459 P A A CGCGCCGAGGAAGACTTTTGTGTTCTTCCCY
11459 T G A ACTTGGGAAGAACACAAAAGTCTCGCAAAAAGAGCAAATAACAGGTTTTGAGAGGTTCTAAATTCACTGACGGT
11459 T A A ACTTGGGAAGAACACAAAAGTCTTGCAAAAAGAGCAAATAACAGGTTTTGAGAGGTTCTAAATTCACTGACGGT
AATATTTATCACCGTCAGTGAATTTAGAACCTCTCAAAACCTGTTATTTGCTCTTTTTGC[GA]AGACTTTTGTGTTCTTCCCAAGTTAGAGGCCAGTGATAATC
11459 IS [GA] TCTTTCATTGACTTAACCC
11461 I A CTGGGGATGATTTTCATATCCACCTTTAGTTTTCTGTTTTCCAGGA
11461 P C A ATGACGTGGCAGACCTAATTTTCTCCATTCCTTCAACY
11461 P T A CGCGCCGAGGTTAATTTTCTCCATTCCTTCAACY
11461 T C A AATGGTTGAAGGAATGGAGAAAATTAGCCTGGAAAACAGAAAACTAAAGGTGGATATGAAAATCATCCCCAGTA
11461 T T A AATGGTTGAAGGAATGGAGAAAATTAACCTGGAAAACAGAAAACTAAAGGTGGATATGAAAATCATCCCCAGTA
ACCATCCTTTAAATACTGGGGATGATTTTCATATCCACCTTTAGTTTTCTGTTTTCCAGG[CT]TAATTTTCTCCATTCCTTCAACCATTCCTGATGGAAGTGCC
11461 IS [CT] ATTTCTAGATCTCTCCCTA ctg19 19
11462 I A CAGTCCCCAAATTTTATTTCTCTCAATACGCAAATACATATCTTTCCTTCCTA
11462 P T A CGCGCCGAGGTTTGCAAATACCTTCCTCTTY
11462 P C A ATGACGTGGCAGACCTTGCAAATACCTTCCTCTTY
11462 T T A AGGCAAGAGGAAGGTATTTGCAAAAGGAAGGAAAGATATGTATTTGCGTATTGAGAGAAATAAAATTTGGGGACTGGG
11462 T C A AGGCAAGAGGAAGGTATTTGCAAGAGGAAGGAAAGATATGTATTTGCGTATTGAGAGAAATAAAATTTGGGGACTGGG
AACAGCCCCAGTCCCCAAATTTTATTTCTCTCAATACGCAAATACATATCTTTCCTTCCT[TC]TTGCAAATACCTTCCTCTTGCCTTTCACAAGATAAAAAAAAA
11462 IS [TC] AAAATTAAAGCTTGTTTC ctg12325 11
11483 I A ACAGTTGATCCAGAAGTTGGCACAGCTGGCT
11483 P G A ATGACGTGGCAGACGTGATACTGGTGCCCTY
11483 P A A CGCGCCGAGGATGATACTGGTGCCCTCY
11483 T G A TATGGAGGGCACCAGTATCACGCCAGCTGTGCCAACTTCTGGATCAACTGTGT
11483 T A A TATGGAGGGCACCAGTATCATGCCAGCTGTGCCAACTTCTGGATCAACTGTGT
CAGGACGAGGCCAGGAGGCTTTGGTTCGACACAGTTGATCCAGAAGTTGGCACAGCTGGC[GA]TGATACTGGTGCCCTCCATAGGCCAGCTTGAAACTGT
11483 IS [GA] CTGTTTCTGAGTTGAATGCCTGC ctg19 19
11518 I S GCCCTTGTTCTTTGTGAGGCATTCCCTTCCCT
11518 P C S ATGACGTGGCAGACGGTTCCAGGGCTGCY
11518 P G S CGCGCCGAGGCGTTCCAGGGCTGCY
11518 T C S GAGAGCAGCCCTGGAACCGGGAAGGGAATGCCTCACAAAGAACAAGGGCTG
11518 T G S GAGAGCAGCCCTGGAACGGGGAAGGGAATGCCTCACAAAGAACAAGGGCTG
CAAGGAAAGGAAGAAGCGATGGAGGCTGCCTCTGCTAAACACCGAGAGCAGCCCTGGAAC[CG]GGGAAGGGAATGCCTCACAAAGAACAAGGGCTGTAGT
11518 IS [CG] AGAGACTCATCCCTTAGAGTACT ctg18911 9
11520 I A GCTTCCTCCTAAAGTACTCAGGGGCAGCCTCT
11520 P A A CGCGCCGAGGATACAGCCACTGTGCAY
11520 P G A ATGACGTGGCAGACGTACAGCCACTGTGCY
11520 T A A TAGATGCACAGTGGCTGTATGAGGCTGCCCCTGAGTACTTTAGGAGGAAGCTG
11520 T G A TAGATGCACAGTGGCTGTACGAGGCTGCCCCTGAGTACTTTAGGAGGAAGCTG

FIGURE 129E

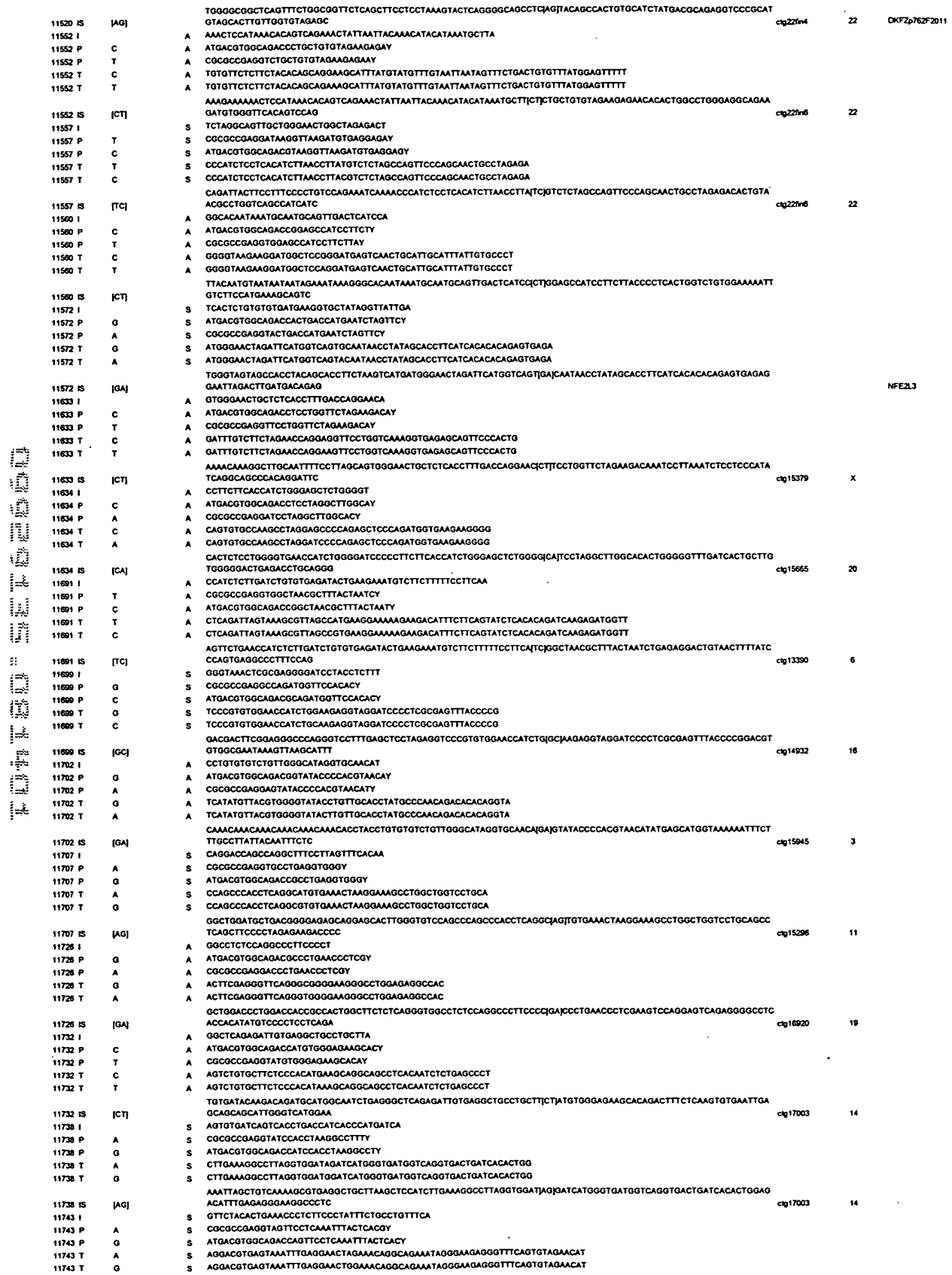

TGGGGCGGCTCAGTTTCTGGCGGTTCTCAGCTTCCTCCTAAAGTACTCAGGGGCAGCCTC[AG]TACAGCCACTGTGCATCTATGACGCAGAGGTCCCGCAT
11520 IS [AG] GTAGCACTTGTTGGTGTAGAGC ctg22fin4 22 DKFZp762F2011
11552 I A AAACTCCATAAACACAGTCAGAAACTATTAATTACAAACATACATAAATGCTTA
11552 P C A ATGACGTGGCAGACCCTGCTGTGTAGAAGAGAY
11552 P T A CGCGCCGAGGTCTGCTGTGTAGAAGAGAAY
11552 T C A TGTGTTCTCTTCTACACAGCAGGAAGCATTTATGTATGTTTGTAATTAATAGTTTCTGACTGTGTTTATGGAGTTTTT
11552 T T A TGTGTTCTCTTCTACACAGCAGAAAGCATTTATGTATGTTTGTAATTAATAGTTTCTGACTGTGTTTATGGAGTTTTT
AAAGAAAAAACTCCATAAACACAGTCAGAAACTATTAATTACAAACATACATAAATGCTT[CT]CTGCTGTGTAGAAGAGAACACACTGGCCTGGGAGGCAGAA
11552 IS [CT] GATGTGGGTTCACAGTCCAG ctg22fin5 22
11557 I S TCTAGGCAGTTGCTGGGAACTGGCTAGAGACT
11557 P T S CGCGCCGAGGATAAGGTTAAGATGTGAGGAGAY
11557 P C S ATGACGTGGCAGACGTAAGGTTAAGATGTGAGGAGY
11557 T T S CCCATCTCCTCACATCTTAACCTTATGTCTCTAGCCAGTTCCCAGCAACTGCCTAGAGA
11557 T C S CCCATCTCCTCACATCTTAACCTTACGTCTCTAGCCAGTTCCCAGCAACTGCCTAGAGA
CAGATTACTTCCTTTCCCCTGTCCAGAAATCAAAACCCATCTCCTCACATCTTAACCTTA[TC]GTCTCTAGCCAGTTCCCAGCAACTGCCTAGAGACACTGTA
11557 IS [TC] ACGCCTGGTCAGCCATCATC ctg22fin6 22
11560 I A GGCACAATAAATGCAATGCAGTTGACTCATCCA
11560 P C A ATGACGTGGCAGACCGGAGCCATCCTTCTY
11560 P T A CGCGCCGAGGTGGAGCCATCCTTCTTAY
11560 T C A GGGGTAAGAAGGATGGCTCCGGGATGAGTCAACTGCATTGCATTTATTGTGCCCT
11560 T T A GGGGTAAGAAGGATGGCTCCAGGATGAGTCAACTGCATTGCATTTATTGTGCCCT
TTACAATGTAATAATAATAGAAATAAAGGGCACAATAAATGCAATGCAGTTGACTCATCC[CT]GGAGCCATCCTTCTTACCCCTCACTGGTCTGTGGAAAAATT
11560 IS [CT] GTCTTCCATGAAAGCAGTC
11572 I S TCACTCTGTGTGTGATGAAGGTGCTATAGGTTATTGA
11572 P G S ATGACGTGGCAGACCACTGACCATGAATCTAGTTCY
11572 P A S CGCGCCGAGGTACTGACCATGAATCTAGTTCY
11572 T G S ATGGGAACTAGATTCATGGTCAGTGCAATAACCTATAGCACCTTCATCACACACAGAGTGAGA
11572 T A S ATGGGAACTAGATTCATGGTCAGTACAATAACCTATAGCACCTTCATCACACACAGAGTGAGA
TGGGTAGTAGCCACCTACAGCACCTTCTAAGTCATGATGGGAACTAGATTCATGGTCAGT[GA]CAATAACCTATAGCACCTTCATCACACACAGAGTGAGAG
11572 IS [GA] GAATTAGACTTGATGACAGAG NFE2L3
11633 I A GTGGGAACTGCTCTCACCTTTGACCAGGAACA
11633 P C A ATGACGTGGCAGACCTCCTGGTTCTAGAAGACAY
11633 P T A CGCGCCGAGGTTCCTGGTTCTAGAAGACAY
11633 T C A GATTTGTCTTCTAGAACCAGGAGGTTCCTGGTCAAAGGTGAGAGCAGTTCCCACTG
11633 T T A GATTTGTCTTCTAGAACCAGGAAGTTCCTGGTCAAAGGTGAGAGCAGTTCCCACTG
AAAACAAAGGCTTGCAATTTTCCTTAGCAGTGGGAACTGCTCTCACCTTTGACCAGGAAC[CT]TCCTGGTTCTAGAAGACAAATCCTTAAATCTCCTCCCATA
11633 IS [CT] TCAGGCAGCCCACAGGATTC ctg15379 X
11634 I A CCTTCTTCACCATCTGGGAGCTCTGGGGT
11634 P C A ATGACGTGGCAGACCTCCTAGGCTTGGCAY
11634 P A A CGCGCCGAGGATCCTAGGCTTGGCACY
11634 T C A CAGTGTGCCAAGCCTAGGAGCCCCAGAGCTCCCAGATGGTGAAGAAGGGG
11634 T A A CAGTGTGCCAAGCCTAGGATCCCCAGAGCTCCCAGATGGTGAAGAAGGGG
CACTCTCCTGGGGTGAACCATCTGGGGATCCCCCTTCTTCACCATCTGGGAGCTCTGGGG[CA]TCCTAGGCTTGGCACACTGGGGGTTTGATCACTGCTTG
11634 IS [CA] TGGGGGACTGAGACCTGCAGGG ctg15665 20
11691 I A CCATCTCTTGATCTGTGTGAGATACTGAAGAAATGTCTTCTTTTTCCTTCAA
11691 P T A CGCGCCGAGGTGGCTAACGCTTTACTAATCY
11691 P C A ATGACGTGGCAGACCGGCTAACGCTTTACTAATY
11691 T T A CTCAGATTAGTAAAGCGTTAGCCATGAAGGAAAAAGAAGACATTTCTTCAGTATCTCACACAGATCAAGAGATGGTT
11691 T C A CTCAGATTAGTAAAGCGTTAGCCGTGAAGGAAAAAGAAGACATTTCTTCAGTATCTCACACAGATCAAGAGATGGTT
AGTTCTGAACCATCTCTTGATCTGTGTGAGATACTGAAGAAATGTCTTCTTTTTCCTTCA[TC]GGCTAACGCTTTACTAATCTGAGAGGACTGTAACTTTTATC
11691 IS [TC] CCAGTGAGGCCCTTTCCAG ctg13390 6
11699 I S GGGTAAACTCGCGAGGGGATCCTACCTCTTT
11699 P G S CGCGCCGAGGCCAGATGGTTCCACACY
11699 P C S ATGACGTGGCAGACGCAGATGGTTCCACACY
11699 T G S TCCCGTGTGGAACCATCTGGAAGAGGTAGGATCCCCTCGCGAGTTTACCCCG
11699 T C S TCCCGTGTGGAACCATCTGCAAGAGGTAGGATCCCCTCGCGAGTTTACCCCG
GACGACTTCGGAGGGCCCAGGGTCCTTTGAGCTCCTAGAGGTCCCGTGTGGAACCATCTG[GC]AAGAGGTAGGATCCCCTCGCGAGTTTACCCCGGACGT
11699 IS [GC] GTGGCGAATAAAGTTAAGCATTT ctg14932 16
11702 I A CCTGTGTGTCTGTTGGGCATAGGTGCAACAT
11702 P G A ATGACGTGGCAGACGGTATACCCCACGTAACAY
11702 P A A CGCGCCGAGGAGTATACCCCACGTAACATY
11702 T G A TCATATGTTACGTGGGGTATACCTGTTGCACCTATGCCCAACAGACACACAGGTA
11702 T A A TCATATGTTACGTGGGGTATACTTGTTGCACCTATGCCCAACAGACACACAGGTA
CAAACAAACAAACAAACAAACACCTACCTGTGTGTCTGTTGGGCATAGGTGCAACA[GA]GTATACCCCACGTAACATATGAGCATGGTAAAAAATTTCT
11702 IS [GA] TTGCCTTATTACAATTTCTC ctg15945 3
11707 I S CAGGACCAGCCAGGCTTTCCTTAGTTTCACAA
11707 P A S CGCGCCGAGGTGCCTGAGGTGGGY
11707 P G S ATGACGTGGCAGACCGCCTGAGGTGGGY
11707 T A S CCAGCCCACCTCAGGCATGTGAAACTAAGGAAAGCCTGGCTGGTCCTGCA
11707 T G S CCAGCCCACCTCAGGCGTGTGAAACTAAGGAAAGCCTGGCTGGTCCTGCA
GGCTGGATGCTGACGGGGAGAGCAGGAGCACTTGGGTGTCCAGCCCAGCCCACCTCAGGC[AG]TGTGAAACTAAGGAAAGCCTGGCTGGTCCTGCAGCC
11707 IS [AG] TCAGCTTCCCCTAGAGAAGACCCC ctg15296 11
11726 I A GGCCTCTCCAGGCCCTTCCCCT
11726 P G A ATGACGTGGCAGACGCCCTGAACCCTCGY
11726 P A A CGCGCCGAGGACCCTGAACCCTCGY
11726 T G A ACTTCGAGGGTTCAGGGCGGGGAAGGGCCTGGAGAGGCCAC
11726 T A A ACTTCGAGGGTTCAGGGTGGGGAAGGGCCTGGAGAGGCCAC
GCTGGACCCTGGACCACCGCCACTGGCTTCTCTCAGGGTGGCCTCTCCAGGCCCTTCCCC[GA]CCCTGAACCCTCGAAGTCCAGGAGTCAGAGGGGCCTC
11726 IS [GA] ACCACATATGTCCCCTCCTCAGA ctg16920 19
11732 I A GGCTCAGAGATTGTGAGGCTGCCTGCTTA
11732 P C A ATGACGTGGCAGACCATGTGGGAGAAGCACY
11732 P T A CGCGCCGAGGTATGTGGGAGAAGCACAY
11732 T C A AGTCTGTGCTTCTCCCACATGAAGCAGGCAGCCTCACAATCTCTGAGCCCT
11732 T T A AGTCTGTGCTTCTCCCACATAAAGCAGGCAGCCTCACAATCTCTGAGCCCT
TGTGATACAAGACAGATGCATGGCAATCTGAGGGCTCAGAGATTGTGAGGCTGCCTGCTT[CT]ATGTGGGAGAAGCACAGACTTTCTCAAGTGTGAATTGA
11732 IS [CT] GCAGCAGCATTGGGTCATGGAA ctg17003 14
11738 I S AGTGTGATCAGTCACCTGACCATCACCCATGATCA
11738 P A S CGCGCCGAGGTATCCACCTAAGGCCTTTY
11738 P G S ATGACGTGGCAGACCATCCACCTAAGGCCTY
11738 T A S CTTGAAAGGCCTTAGGTGGATAGATCATGGGTGATGGTCAGGTGACTGATCACACTGG
11738 T G S CTTGAAAGGCCTTAGGTGGATGGATCATGGGTGATGGTCAGGTGACTGATCACACTGG
AAATTAGCTGTCAAAAGCGTGAGGCTGCTTAAGCTCCATCTTGAAAGGCCTTAGGTGGAT[AG]GATCATGGGTGATGGTCAGGTGACTGATCACACTGGAG
11738 IS [AG] ACATTTGAGAGGGAAGGCCCTC ctg17003 14
11743 I S GTTCTACACTGAAACCCTCTTCCCTATTTCTGCCTGTTTCA
11743 P A S CGCGCCGAGGTAGTTCCTCAAATTTACTCACGY
11743 P G S ATGACGTGGCAGACCAGTTCCTCAAATTTACTCACY
11743 T A S AGGACGTGAGTAAATTTGAGGAACTAGAAACAGGCAGAAATAGGGAAGAGGGTTTCAGTGTAGAACAT
11743 T G S AGGACGTGAGTAAATTTGAGGAACTGGAAACAGGCAGAAATAGGGAAGAGGGTTTCAGTGTAGAACAT

FIGURE 129E

				ATATTTTGTTACAGAAGCACAAATGGATAAGACAAAGGACGTGAGTAAATTTGAGGAACT[AG]GAAACAGGCAGAAATAGGGAAGAGGGTTTCAGTGTAGAA			
11743	IS	[AG]		CATGCAGTGGTTTGGAGGCAT	ctg16920	19	
11788	I		A	GGGGCAGCTTGTTCTGCAGGTCTAGCACT			
11788	P	A	A	CGCGCCGAGGAGCCTTGCCCATCTTY			
11788	P	G	A	ATGACGTGGCAGACGGCCTTGCCCATCTY			
11788	T	A	A	CACCAAGATGGGCAAGGCTGTGCTAGACCTGCAGAACAAGCTGCCCCTG			
11788	T	G	A	CACCAAGATGGGCAAGGCCGTGCTAGACCTGCAGAACAAGCTGCCCCTG			
				ACCTGTGGCGCTGGCGTAGACCACGCGGGCCAGGGGCAGCTTGTTCTGCAGGTCTAGCAC[AG]GCCTTGCCCATCTTGGTGGAGCCGGCATTCTTGGCTT			
11788	IS	[AG]		TGTGACACTCGTCGAACACGATC	ctg16587	15	
11790	I		S	GGATTAGGGATTTAATCTTTCCTCTGCCCTTCAGGTTCCT			
11790	P	C	S	ATGACGTGGCAGACGTGAGCCACCTCACAY			
11790	P	T	S	CGCGCCGAGGATGAGCCACCTCACAGY			
11790	T	C	S	TAACCTGTGAGGTGGCTCACGGAACCTGAAGGGCAGAGGAAAGATTAAATCCCTAATCCAA			
11790	T	T	S	TAACCTGTGAGGTGGCTCATGGAACCTGAAGGGCAGAGGAAAGATTAAATCCCTAATCCAA			
				CAGCCAGAAGAGCAGTGTTGTGACGCTGTCTTTCTGTTTCATAACCTGTGAGGTGGCTCA[CT]GGAACCTGAAGGGCAGAGGAAAGATTAAATCCCTAATCC			
11790	IS	[CT]		AATAATAAGGTTTTCTTCCAT			
11805	I		S	AGGCAGGGAAAGCTATGGGTCAGAATCAGGAAT			
11805	P	T	S	CGCGCCGAGGAACCTCATTGTCTTGATGAGY			
11805	P	C	S	ATGACGTGGCAGACGACCTCATTGTCTTGATGAGY			
11805	T	T	S	CCCCCTCATCAAGACAATGAGGTTTTCCTGATTCTGACCCATAGCTTTCCCTGCCTCA			
11805	T	C	S	CCCCCTCATCAAGACAATGAGGTCTTCCTGATTCTGACCCATAGCTTTCCCTGCCTCA			
				AGGCCATCAGATCAAGCTAGACTGGCTTGTCCTCAGGCCCCCTCATCAAGACAATGAGGT[TC]TTCCTGATTCTGACCCATAGCTTTCCCTGCCTCATATGC			
11805	IS	[TC]		CCACAGCCAGGAAAACAGAGG	MULTIPLE	MULTIPLE	
11815	I		A	CTGCTGAAAATGAAGCAACTGGCCCTGGCA			
11815	P	C	A	ATGACGTGGCAGACCTTATTCCTCCACCTCTTGY			
11815	P	T	A	CGCGCCGAGGTTTATTCCTCCACCTCTTGY			
11815	T	C	A	GGAGCAAGAGGTGGAGGAATAAGGCCAGGGCCAGTTGCTTCATTTTCAGCAGGG			
11815	T	T	A	GGAGCAAGAGGTGGAGGAATAAAGCCAGGGCCAGTTGCTTCATTTTCAGCAGGG			
				GGTAATTTAAATGTGCCTGATTCATCTCTCCCTGCTGAAAATGAAGCAACTGGCCCTGGC[CT]TTATTCCTCCACCTCTTGCTCCAATCAGCGGTCCATTGTT			
11815	IS	[CT]		TCCAGTGGATACAAGGGGCC	ctg14007	17	MGEA6
11817	I		A	TGGCCTTATTCCTCCACCTCTTGCTCCAATCAGT			
11817	P	C	A	ATGACGTGGCAGACCGGTCCATTGTTTCCAGY			
11817	P	A	A	CGCGCCGAGGAGGTCCATTGTTTCCAGTY			
11817	T	C	A	ATCCACTGGAAACAATGGACCGCTGATTGGAGCAAGAGGTGGAGGAATAAGGCCAGG			
11817	T	A	A	ATCCACTGGAAACAATGGACCTCTGATTGGAGCAAGAGGTGGAGGAATAAGGCCAGG			
				CCCTGCTGAAAATGAAGCAACTGGCCCTGGCCTTATTCCTCCACCTCTTGCTCCAATCAG[CA]GGTCCATTGTTTCCAGTGGATACAAGGGGCCCGTTCATG			
11817	IS	[CA]		AGAAGAGGACCTCCTTTCCCC	ctg22fin4	22	
11819	I		A	AGTCCAGCTAGCATTGATTCCAACCCTCCTTCATCAATTTTAATTTAA			
11819	P	T	A	CGCGCCGAGGTTCAGTGCAAAGAAATGAAGY			
11819	P	C	A	ATGACGTGGCAGACCTCAGTGCAAAGAAATGAAGY			
11819	T	T	A	ATTACTTCATTTCTTTGCACTGAATAAATTAAAATTGATGAAGGAGGGTTGGAATCAATGCTAGCTGGACTTC			
11819	T	C	A	ATTACTTCATTTCTTTGCACTGAGTAAATTAAAATTGATGAAGGAGGGTTGGAATCAATGCTAGCTGGACTTC			
				AAATACAGCCAGAAGTCCAGCTAGCATTGATTCCAACCCTCCTTCATCAATTTTAATTTA[TC]TCAGTGCAAAGAAATGAAGTAATTTGCTGGCCACACTGACT			
11819	IS	[TC]		ATGCATCTAACTGGATTGA			
11843	I		A	CATCCCTGTTCCAGCCCCGTGTTGTT			
11843	P	C	A	CGCGCCGAGGCCCGGCCATGTGAY			
11843	P	G	A	ATGACGTGGCAGACGCCGGCCATGTGAY			
11843	T	C	A	TGAGTCACATGGCCGGGACAACACGGGGCTGGAACAGGGATGCT			
11843	T	G	A	TGAGTCACATGGCCGGCACAACACGGGGCTGGAACAGGGATGCT			
				TATCGGGCAAGGGGACAAGGTCTGGCTTCCCGGAGCATCCCTGTTCCAGCCCCGTGTTGT[CG]CCGGCCATGTGACTCACAGCTCCTCTCATTTTCATGAG			
11843	IS	[CG]		TGTCTGGGTTTGACGAGAAATA	ctg17207	19	
11847	I		A	CCAACAACTAGCTTTGCAGGCTTCTCACACACCT			
11847	P	G	A	ATGACGTGGCAGACGTGCTACCCTCCCAGY			
11847	P	A	A	CGCGCCGAGGATGCTACCCTCCCAGY			
11847	T	G	A	CACACTGGGAGGGTAGCACGGTGTGTGAGAAGCCTGCAAAGCTAGTTGTTGGGA			
11847	T	A	A	CACACTGGGAGGGTAGCATGGTGTGTGAGAAGCCTGCAAAGCTAGTTGTTGGGA			
				CAAAGCTAGGACAAAAACCAGGGTCTCCCAACAACTAGCTTTGCAGGCTTCTCACACACC[GA]TGCTACCCTCCGAGTGTGGAAAGGAACCACTCAGCCTC			
11847	IS	[GA]		CCCACACTTTCTGCCATAGGAG	ctg15842	19	
11862	I		A	GCTCACAGGCCGGTGGGTGCAAT			
11862	P	A	A	CGCGCCGAGGACCCTGAAGGACACACY			
11862	P	G	A	ATGACGTGGCAGACGCCCTGAAGGACACAY			
11862	T	A	A	GGCTGTGTGTCCTTCAGGGTTTGCACCCACCGGCCTGTGAGCGC			
11862	T	G	A	GGCTGTGTGTCCTTCAGGGCTTGCACCCACCGGCCTGTGAGCGC			
				GGAACTCAAGGCACAGGAGCCTGGCTTTTGCGCAGGGCGCTCACAGGCCGGTGGGTGCAA[AG]CCCTGAAGGACACACAGCCTGTCCCTTTAGCGCCCAT			
11862	IS	[AG]		CGCTTCTGGTGTGAGCTCCCGCT	ctg15842	19	
11902	I		S	GTGTCTGCTCCCTCCCTCTGGTCCCA			
11902	P	A	S	CGCGCCGAGGTGGCACATCTCTGGACY			
11902	P	G	S	ATGACGTGGCAGACCGGCACATCTCTGGAY			
11902	T	A	S	GGGGGTCCAGAGATGTGCCAGGGACCAGAGGGAGGGAGCAGACACCC			
11902	T	G	S	GGGGGTCCAGAGATGTGCCGGGGACCAGAGGGAGGGAGCAGACACCC			
				GAATACGCCGTTGCCCGTCATCTCTCTCCGACAGCAGGGCAGGGGGTCCAGAGATGTGCC[AG]GGGACCAGAGGGAGGGAGCAGACACCCACCCGGCCT			
11902	IS	[AG]		GGGCAGGTCCTCCTCATTGCTTGC	ctg19247	7	
11908	I		A	TCTCAAAACAACAACAACAACAACAACAACAATAAGTGAACATCAGCAT			
11908	P	A	A	CGCGCCGAGGAGTACCCCAGCCCTY			
11908	P	G	A	ATGACGTGGCAGACGGTACCCCAGCCCY			
11908	T	A	A	GGACAGGGCTGGGGTACTTGCTGATGTTCACTTATTGTTGTTGTTGTTGTTGTTTTGAGACG			
11908	T	G	A	GGACAGGGCTGGGGTACCTGCTGATGTTCACTTATTGTTGTTGTTGTTGTTGTTTTGAGACG			
				AGCGAGACTCCGTCTCAAAACAACAACAACAACAACAACAACAATAAGTGAACATCAGCA[AG]GTACCCCAGCCCTGTCCTCTGAACACAGCACACTTTCCC			
11908	IS	[AG]		AGGAATGGAAGACTTGCTCCT	MULTIPLE	18	
11915	I		S	GGAAGGTTTCTTCCCAGAGTCAAGATCCACTTCTGGT			
11915	P	G	S	ATGACGTGGCAGACCAATACCCTGGTCTCTGTY			
11915	P	T	S	CGCGCCGAGGAAATACCCTGGTCTCTGTY			
11915	T	G	S	GAGAACAGAGACCAGGGTATTGCCAGAAGTGGATCTTGACTCTGGGAAGAAACCTTCCGA			
11915	T	T	S	GAGAACAGAGACCAGGGTATTTCCAGAAGTGGATCTTGACTCTGGGAAGAAACCTTCCGA			
				CCGCATAAAAACCATTAAGACATCTTCTGGGGAAATCAAGAGAACAGAGACCAGGGTATT[GT]CCAGAAGTGGATCTTGACTCTGGGAAGAAACCTTCCGAG			
11915	IS	[GT]		CAGATGGTGTCTGTGATGGCC	ctg15907	6	
11917	I		A	CAGTTTTTGTCTCTCTCGTCAGGATTGTTTTGGTAGGCAT			
11917	P	C	A	ATGACGTGGCAGACCACTTTCAGAACTGTTCCATY			
11917	P	A	A	CGCGCCGAGGAACTTTCAGAACTCTTCCATTAY			
11917	T	C	A	AATCTAATGGAAGAGTTCTGAAAGTGTGCCTACCAAAACAATCCTGACGAGAGAGACAAAAACTGCA			
11917	T	A	A	AATCTAATGGAAGAGTTCTGAAAGTTTGCCTACCAAAACAATCCTGACGAGAGAGACAAAAACTGCA			
				TAGCATCAGCTCTAATATATGCAGTTTTTGTCTCTCTCGTCAGGATTGTTTTGGTAGGCA[CA]ACTTTCAGAACTCTTCCATTAGATTTCTTCAAAATTGTTTA			
11917	IS	[CA]		GGGTTCCTCTCAAGTTTTG	ctg17129	17	
12009	I		A	GGCCCCTTCTCTGGCCTGTCTACCCT			
12009	P	G	A	ATGACGTGGCAGACGCCCTGGCAAACGY			
12009	P	A	A	CGCGCCGAGGACCCTGGCAAACGGY			
12009	T	G	A	CCAGCCGTTTGCCAGGGCGGGTAGACAGGCCAGAGAAGGGGCCGG			
12009	T	A	A	CCAGCCGTTTGCCAGGGTGGGTAGACAGGCCAGAGAAGGGGCCGG			

FIGURE 129E

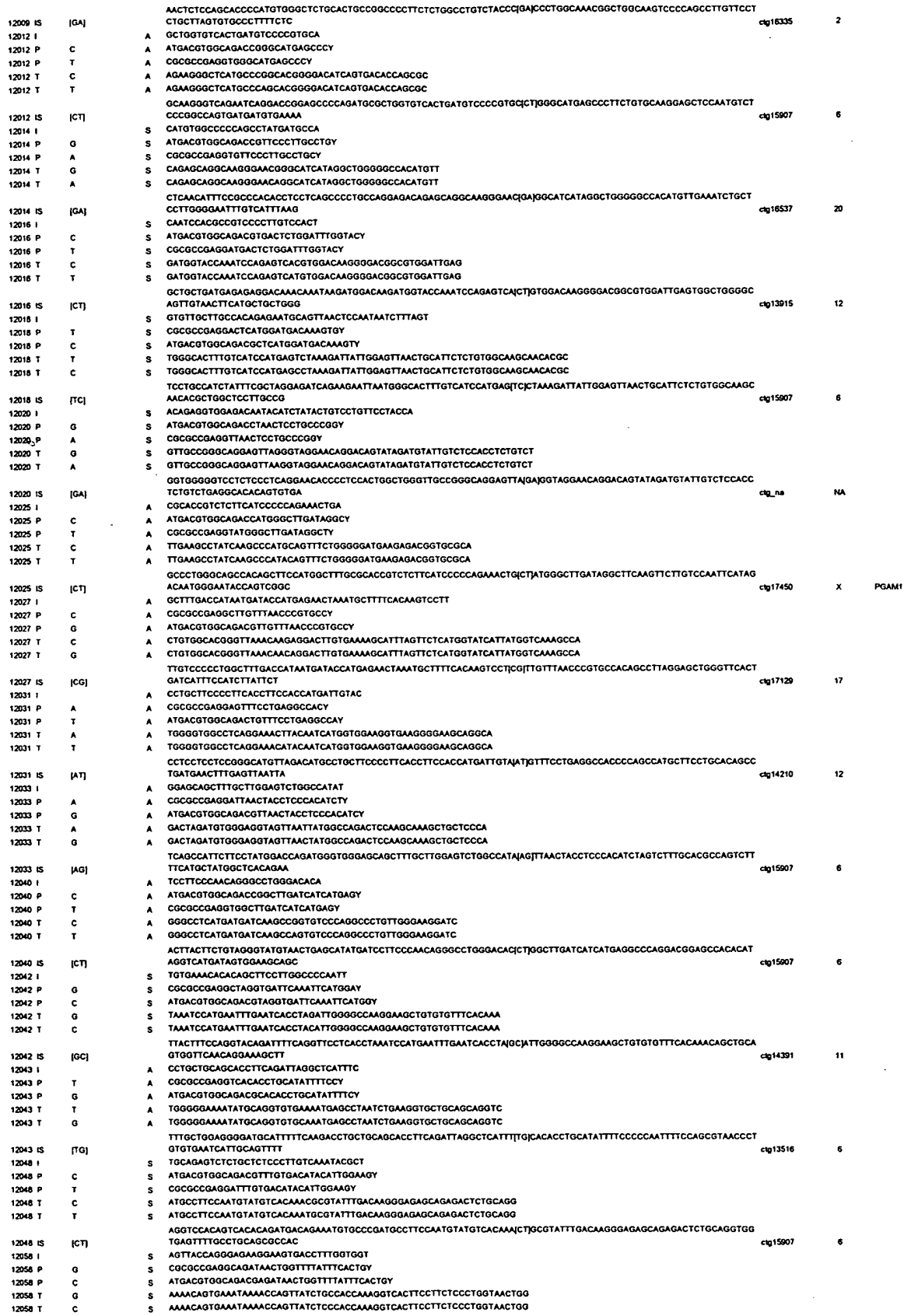

AACTCTCCAGCACCCCATGTGGGCTCTGCACTGCCGGCCCCTTCTCTGGCCTGTCTACCC[GA]CCCTGGCAAACGGCTGGCAAGTCCCCAGCCTTGTTCCT
12009 IS [GA] CTGCTTAGTGTGCCCTTTTCTC ctg16335 2
12012 I A GCTGGTGTCACTGATGTCCCCGTGCA
12012 P C A ATGACGTGGCAGACCGGGCATGAGCCCY
12012 P T A CGCGCCGAGGTGGGCATGAGCCCY
12012 T C A AGAAGGGCTCATGCCCGGCACGGGGACATCAGTGACACCAGCGC
12012 T T A AGAAGGGCTCATGCCCAGCACGGGGACATCAGTGACACCAGCGC
GCAAGGGTCAGAATCAGGACCGGAGCCCCAGATGCGCTGGTGTCACTGATGTCCCCGTGC[CT]GGGCATGAGCCCTTCTGTGCAAGGAGCTCCAATGTCT
12012 IS [CT] CCCGGCCAGTGATGATGTGAAAA ctg15907 6
12014 I S CATGTGGCCCCAGCCTATGATGCCA
12014 P G S ATGACGTGGCAGACCGTTCCCTTGCCTGY
12014 P A S CGCGCCGAGGTGTTCCCTTGCCTGCY
12014 T G S CAGAGCAGGCAAGGGAACGGGCATCATAGGCTGGGGGCCACATGTT
12014 T A S CAGAGCAGGCAAGGGAACAGGCATCATAGGCTGGGGGCCACATGTT
CTCAACATTTCCGCCCACACCTCCTCAGCCCCTGCCAGGAGACAGAGCAGGCAAGGGAAC[GA]GGCATCATAGGCTGGGGGCCACATGTTGAAATCTGCT
12014 IS [GA] CCTTGGGGAATTTGTCATTTAAG ctg16537 20
12016 I S CAATCCACGCCGTCCCCTTGTCCACT
12016 P C S ATGACGTGGCAGACGTGACTCTGGATTTGGTACY
12016 P T S CGCGCCGAGGATGACTCTGGATTTGGTACY
12016 T C S GATGGTACCAAATCCAGAGTCACGTGGACAAGGGGACGGCGTGGATTGAG
12016 T T S GATGGTACCAAATCCAGAGTCATGTGGACAAGGGGACGGCGTGGATTGAG
GCTGCTGATGAGAGAGGACAAACAAATAAGATGGACAAGATGGTACCAAATCCAGAGTCA[CT]GTGGACAAGGGGACGGCGTGGATTGAGTGGCTGGGGC
12016 IS [CT] AGTTGTAACTTCATGCTGCTGGG ctg13915 12
12018 I S GTGTTGCTTGCCACAGAGAATGCAGTTAACTCCAATAATCTTTAGT
12018 P T S CGCGCCGAGGACTCATGGATGACAAAGTGY
12018 P C S ATGACGTGGCAGACGCTCATGGATGACAAAGTY
12018 T T S TGGGCACTTTGTCATCCATGAGCTAAAGATTATTGGAGTTAACTGCATTCTCTGTGGCAAGCAACACGC
12018 T C S TGGGCACTTTGTCATCCATGAGCCTAAAGATTATTGGAGTTAACTGCATTCTCTGTGGCAAGCAACACGC
TCCTGCCATCTATTTCGCTAGGAGATCAGAAGAATTAATGGGCACTTTGTCATCCATGAG[TC]CTAAAGATTATTGGAGTTAACTGCATTCTCTGTGGCAAGC
12018 IS [TC] AACACGCTGGCTCCTTGCCG ctg15907 6
12020 I S ACAGAGGTGGAGACAATACATCTATACTGTCCTGTTCCTACCA
12020 P G S ATGACGTGGCAGACCTAACTCCTGCCCGGY
12020 P A S CGCGCCGAGGTTAACTCCTGCCCGGY
12020 T G S GTTGCCGGGCAGGAGTTAGGGTAGGAACAGGACAGTATAGATGTATTGTCTCCACCTCTGTCT
12020 T A S GTTGCCGGGCAGGAGTTAAGGTAGGAACAGGACAGTATAGATGTATTGTCTCCACCTCTGTCT
GGTGGGGGTCCTCTCCCTCAGGAACACCCCTCCACTGGCTGGGTTGCCGGGCAGGAGTTA[GA]GGTAGGAACAGGACAGTATAGATGTATTGTCTCCACC
12020 IS [GA] TCTGTCTGAGGCACACAGTGTGA ctg_na NA
12025 I A CGCACCGTCTCTTCATCCCCCAGAAACTGA
12025 P C A ATGACGTGGCAGACCATGGGCTTGATAGGCY
12025 P T A CGCGCCGAGGTATGGGCTTGATAGGCTY
12025 T C A TTGAAGCCTATCAAGCCCATGCAGTTTCTGGGGGATGAAGAGACGGTGCGCA
12025 T T A TTGAAGCCTATCAAGCCCATACAGTTTCTGGGGGATGAAGAGACGGTGCGCA
GCCCTGGGCAGCCACAGCTTCCATGGCTTTGCGCACCGTCTCTTCATCCCCCAGAAACTG[CT]ATGGGCTTGATAGGCTTCAAGTTCTTGTCCAATTCATAG
12025 IS [CT] ACAATGGGAATACCAGTCGGC ctg17450 X PGAM1
12027 I A GCTTTGACCATAATGATACCATGAGAACTAAATGCTTTTCACAAGTCCTT
12027 P C A CGCGCCGAGGCTTGTTTAACCCGTGCCY
12027 P G A ATGACGTGGCAGACGTTGTTTAACCCGTGCCY
12027 T C A CTGTGGCACGGGTTAAACAAGAGGACTTGTGAAAAGCATTTAGTTCTCATGGTATCATTATGGTCAAAGCCA
12027 T G A CTGTGGCACGGGTTAAACAACAGGACTTGTGAAAAGCATTTAGTTCTCATGGTATCATTATGGTCAAAGCCA
TTGTCCCCCTGGCTTTGACCATAATGATACCATGAGAACTAAATGCTTTTCACAAGTCCT[CG]TTGTTTAACCCGTGCCACAGCCTTAGGAGCTGGGTTCACT
12027 IS [CG] GATCATTTCCATCTTATTCT ctg17129 17
12031 I A CCTGCTTCCCCTTCACCTTCCACCATGATTGTAC
12031 P A A CGCGCCGAGGAGTTTCCTGAGGCCACY
12031 P T A ATGACGTGGCAGACTGTTTCCTGAGGCCAY
12031 T A A TGGGGTGGCCTCAGGAAACTTACAATCATGGTGGAAGGTGAAGGGGAAGCAGGCA
12031 T T A TGGGGTGGCCTCAGGAAACATACAATCATGGTGGAAGGTGAAGGGGAAGCAGGCA
CCTCCTCCTCCGGGCATGTTAGACATGCCTGCTTCCCCTTCACCTTCCACCATGATTGTA[AT]GTTTCCTGAGGCCACCCCAGCCATGCTTCCTGCACAGCC
12031 IS [AT] TGATGAACTTTGAGTTAATTA ctg14210 12
12033 I A GGAGCAGCTTTGCTTGGAGTCTGGCCATAT
12033 P A A CGCGCCGAGGATTAACTACCTCCCACATCTY
12033 P G A ATGACGTGGCAGACGTTAACTACCTCCCACATCY
12033 T A A GACTAGATGTGGGAGGTAGTTAATTATGGCCAGACTCCAAGCAAAGCTGCTCCCA
12033 T G A GACTAGATGTGGGAGGTAGTTAACTATGGCCAGACTCCAAGCAAAGCTGCTCCCA
TCAGCCATTCTTCCTATGGACCAGATGGGTGGGAGCAGCTTTGCTTGGAGTCTGGCCATA[AG]TTAACTACCTCCCACATCTAGTCTTTGCACGCCAGTCTT
12033 IS [AG] TTCATGCTATGGCTCACAGAA ctg15907 6
12040 I A TCCTTCCCAACAGGGCCTGGGACACA
12040 P C A ATGACGTGGCAGACCGGCTTGATCATCATGAGY
12040 P T A CGCGCCGAGGTGGCTTGATCATCATGAGY
12040 T C A GGGCCTCATGATGATCAAGCCGGTGTCCCAGGCCCTGTTGGGAAGGATC
12040 T T A GGGCCTCATGATGATCAAGCCAGTGTCCCAGGCCCTGTTGGGAAGGATC
ACTTACTTCTGTAGGGTATGTAACTGAGCATATGATCCTTCCCAACAGGGCCTGGGACAC[CT]GGCTTGATCATCATGAGGCCCAGGACGGAGCCACACAT
12040 IS [CT] AGGTCATGATAGTGGAAGCAGC ctg15907 6
12042 I S TGTGAAACACACAGCTTCCTTGGCCCCAATT
12042 P G S CGCGCCGAGGCTAGGTGATTCAAATTCATGGAY
12042 P C S ATGACGTGGCAGACGTAGGTGATTCAAATTCATGGY
12042 T G S TAAATCCATGAATTTGAATCACCTAGATTGGGGCCAAGGAAGCTGTGTGTTTCACAAA
12042 T C S TAAATCCATGAATTTGAATCACCTACATTGGGGCCAAGGAAGCTGTGTGTTTCACAAA
TTACTTTCCAGGTACAGATTTTCAGGTTCCTCACCTAAATCCATGAATTTGAATCACCTA[GC]ATTGGGGCCAAGGAAGCTGTGTGTTTCACAAACAGCTGCA
12042 IS [GC] GTGGTTCAACAGGAAAGCTT ctg14391 11
12043 I A CCTGCTGCAGCACCTTCAGATTAGGCTCATTTC
12043 P T A CGCGCCGAGGTCACACCTGCATATTTTCCY
12043 P G A ATGACGTGGCAGACGCACACCTGCATATTTTCY
12043 T T A TGGGGGAAAATATGCAGGTGTGAAAATGAGCCTAATCTGAAGGTGCTGCAGCAGGTC
12043 T G A TGGGGGAAAATATGCAGGTGTGCAAATGAGCCTAATCTGAAGGTGCTGCAGCAGGTC
TTTGCTGGAGGGGATGCATTTTTCAAGACCTGCTGCAGCACCTTCAGATTAGGCTCATTT[TG]CACACCTGCATATTTTCCCCCAATTTTCCAGCGTAACCCT
12043 IS [TG] GTGTGAATCATTGCAGTTTT ctg13516 6
12048 I S TGCAGAGTCTCTGCTCTCCCTTGTCAAATACGCT
12048 P C S ATGACGTGGCAGACGTTTGTGACATACATTGGAAGY
12048 P T S CGCGCCGAGGATTTGTGACATACATTGGAAGY
12048 T C S ATGCCTTCCAATGTATGTCACAAACGCGTATTTGACAAGGGAGAGCAGAGACTCTGCAGG
12048 T T S ATGCCTTCCAATGTATGTCACAAATGCGTATTTGACAAGGGAGAGCAGAGACTCTGCAGG
AGGTCCACAGTCACACAGATGACAGAAATGTGCCCGATGCCTTCCAATGTATGTCACAAA[CT]GCGTATTTGACAAGGGAGAGCAGAGACTCTGCAGGTGG
12048 IS [CT] TGAGTTTTGCCTGCAGCGCCAC ctg15907 6
12058 I S AGTTACCAGGGAGAAGGAAGTGACCTTTGGTGGT
12058 P G S CGCGCCGAGGCAGATAACTGGTTTTATTTCACTGY
12058 P C S ATGACGTGGCAGACGAGATAACTGGTTTTATTTCACTGY
12058 T G S AAAACAGTGAAATAAAACCAGTTATCTGCCACCAAAGGTCACTTCCTTCTCCCTGGTAACTGG
12058 T C S AAAACAGTGAAATAAAACCAGTTATCTCCCACCAAAGGTCACTTCCTTCTCCCTGGTAACTGG

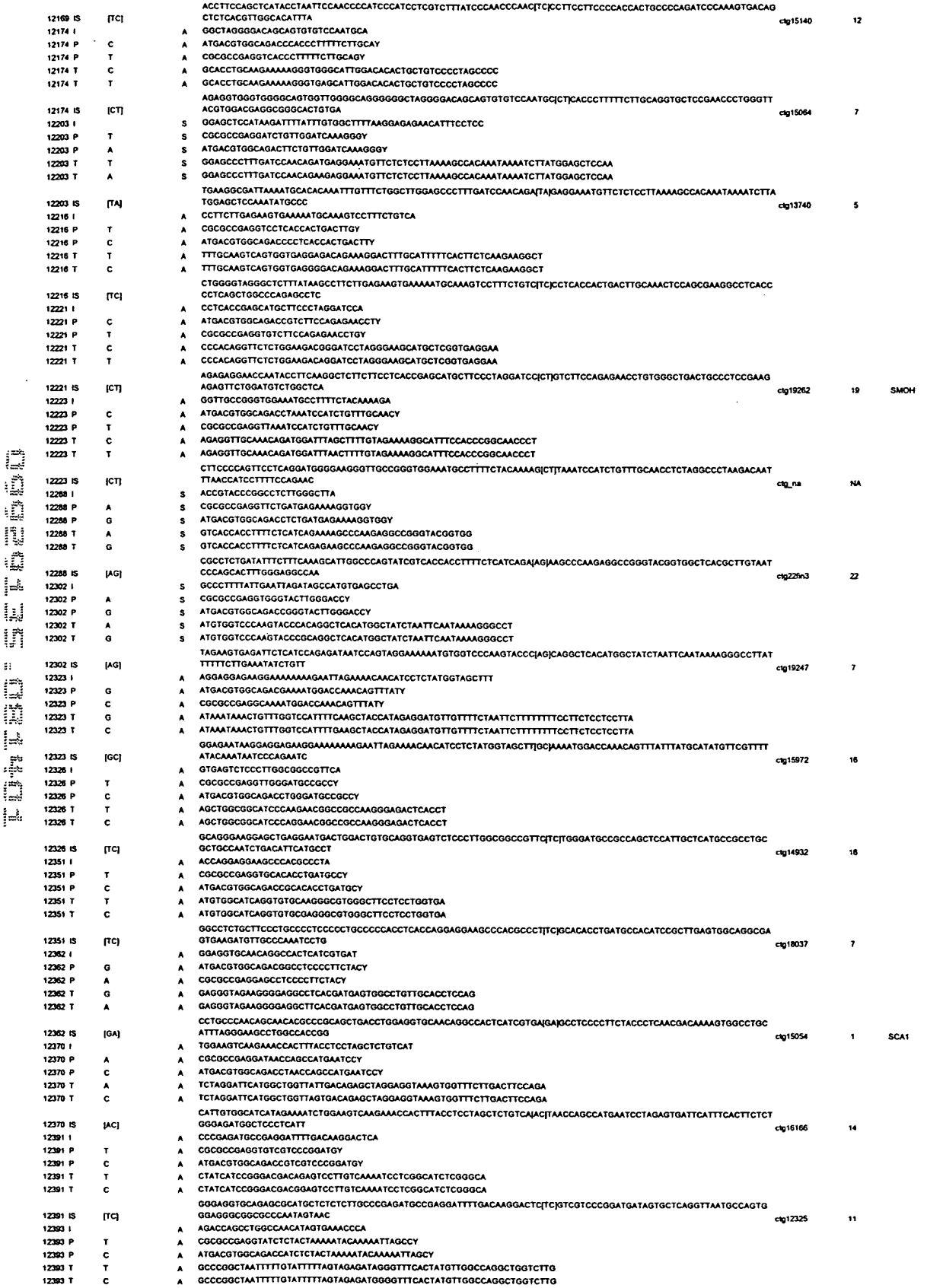
FIGURE 129E

				TGAGGATCTGCATCTTTAACAGGCTGAAACCAGAAAACAGTGAAATAAAACCAGTTATCT[GC]CCACCAAAGGTCACTTCCTTCTCCCTGGTAACTGGACTCT			
12058	IS	[GC]		CCTCTGGCTGCAACACCTCT	ctg15478	1	
12059	I		S	TGACTTAGTTTGCTGGGTTATCTGCTGTGCCTGATT			
12059	P	C	S	ATGACGTGGCAGACGAGTACCGAATTTATAAAGCACY			
12059	P	T	S	CGCGCCGAGGAAGTACCGAATTTATAAAGCACY			
12059	T	C	S	ACCTGTGCTTTATAAATTCGGTACTCATCAGGCACAGCAGATAACCCAGCAAACTAAGTCACA			
12059	T	T	S	ACCTGTGCTTTATAAATTCGGTACTTATCAGGCACAGCAGATAACCCAGCAAACTAAGTCACA			
				TTCCAATGAGCCTGTGGGAAAATATTAACAAGCATACCTGTGCTTTATAAATTCGGTACT[CT]ATCAGGCACAGCAGATAACCCAGCAAACTAAGTCACATCT			
12059	IS	[CT]		ATTCTGGAATTTCAGGGTTT			
12064	I		S	GTGGGCGCTCGGCACCATGCT			
12064	P	T	S	CGCGCCGAGGAGTCTGAGGATGGCCY			
12064	P	C	S	ATGACGTGGCAGACGGTCTGAGGATGGCCY			
12064	T	T	S	CTTTGGCCATCCTCAGACTGCATGGTGCCGAGCGCCCACAA			
12064	T	C	S	CTTTGGCCATCCTCAGACCGCATGGTGCCGAGCGCCCACAA			
				TGTAAGTCACAAGTGGGCCAAGTCCCCACTAATCAGCCTCTCCTTTGGCCATCCTCAGAC[TC]GCATGGTGCCGAGCGCCCACAACAGGCTCATGGAACAG			
12064	IS	[TC]		CTGGCCCTCCTGTGCACCACGC	ctg15907	6	
12069	I		S	AGCCCATCATTTGTTTTTGTGGCAAAGGGATATGTTGTCATAATAAATTCT			
12069	P	C	S	ATGACGTGGCAGACGATCAGTGGTTCCGAGY			
12069	P	G	S	CGCGCCGAGGCATCAGTGGTTCCGAGY			
12069	T	C	S	CTGGCTCGGAACCACTGATCGAATTTATTATGACAACATATCCCTTTGCCACAAAAACAAATGATGGGCTAA			
12069	T	G	S	CTGGCTCGGAACCACTGATGGAATTTATTATGACAACATATCCCTTTGCCACAAAAACAAATGATGGGCTAA			
				ACAATATCCCCTAGTGGGGATCGGTGGGGGCAACATTGTCCCTGGCTCGGAACCACTGAT[CG]GAATTTATTATGACAACATATCCCTTTGCCACAAAAACA			
12069	IS	[CG]		AATGATGGGCTAACCGTGTGT	ctg15330	9	
12071	I		A	TGTGCCTCATCAGCAAAATGGGGATGATAATGAATGGTAA			
12071	P	C	A	ATGACGTGGCAGACCCTGCCTCATAGAAATGTGY			
12071	P	T	A	CGCGCCGAGGTCTGCCTCATAGAAATGTGY			
12071	T	C	A	TTCTCACATTTCTATGAGGCAGGTACCATTCATTATCATCCCCATTTTGCTGATGAGGCACAGA			
12071	T	T	A	TTCTCACATTTCTATGAGGCAGATACCATTCATTATCATCCCCATTTTGCTGATGAGGCACAGA			
				GGGCTGGTTACTCCACCTCTCTGTGCCTCATCAGCAAAATGGGGATGATAATGAATGGTA[CT]CTGCCTCATAGAAATGTGAGAATAGAGTGAATGAACTCA			
12071	IS	[CT]		TATAAAGCTCTAGGCACCATG	ctg15140	12	
12086	I		A	GCCTGCCCTCAAATCATTGGTTCAAATCGCTCTA			
12086	P	T	A	CGCGCCGAGGTGAGAAGTTTGGGAGCTY			
12086	P	C	A	ATGACGTGGCAGACCGAGAAGTTTGGGAGCY			
12086	T	T	A	TGGGAGCTCCCAAACTTCTCAAGAGCGATTTGAACCAATGATTTGAGGGCAGGCTG			
12086	T	C	A	TGGGAGCTCCCAAACTTCTCGAGAGCGATTTGAACCAATGATTTGAGGGCAGGCTG			
				AGTCCTAAACTGTCCCTATCTTCACCAGCCTGCCCTCAAATCATTGGTTCAAATCGCTCT[TC]GAGAAGTTTGGGAGCTCCCAGGGCGGGGGCTTTCTAACA			
12086	IS	[TC]		GCTCTGCCTAGCTCGGGCCTG	ctg15478	1	
12090	I		S	TGGGCCAGTGTCCCCTACTAAGCAGCC			
12090	P	A	S	CGCGCCGAGGTTTCTGGGACATGCTGTY			
12090	P	T	S	ATGACGTGGCAGACATTCTGGGACATGCTGTY			
12090	T	A	S	GAGAACAGCATGTCCCAGAAAGCTGCTTAGTAGGGGACACTGGCCCACT			
12090	T	T	S	GAGAACAGCATGTCCCAGAATGCTGCTTAGTAGGGGACACTGGCCCACT			
				TCTGAGTGGACATCAAGGAAGCTGCAGGGGCAGCCCCGCAGAGAACAGCATGTCCCAGAA[AT]GCTGCTTAGTAGGGGACACTGGCCCACTCTCTCTGCC			
12090	IS	[AT]		CCTCCCAGACTCCAGCCTCACTA	ctg22fn4	22	
12092	I		A	CTGTGGGCACTGGGGGAAACTTAGGCT			
12092	P	G	A	ATGACGTGGCAGACGCCTCCTCCAAGGCY			
12092	P	A	A	CGCGCCGAGGACCTCCTCCAAGGCY			
12092	T	G	A	GAGAGCCTTGGAGGAGGCGCCTAAGTTTCCCCCAGTGCCCACAGCA			
12092	T	A	A	GAGAGCCTTGGAGGAGGTGCCTAAGTTTCCCCCAGTGCCCACAGCA			
				TGGGTGGTGCGTGTATTTTCAGTGCCGGAGGGTGCTGTGGGCACTGGGGGAAACTTAGGC[GA]CCTCCTCCAAGGCTCTCTTGGTGCCTCCTCATCTGTT			
12092	IS	[GA]		CCTTCAGCTTCTGGATCTTGAGC	ctg15665	20	
12093	I		A	GCTCCCAAAATGTGTTCCATGGTACACTAGAGTAGCAA			
12093	P	C	A	ATGACGTGGCAGACCATACAAAGAGATGGAATCCAY			
12093	P	T	A	CGCGCCGAGGTATACAAAGAGATGGAATCCAAAY			
12093	T	C	A	TATTTTTGGATTCCATCTCTTTGTATGTGCTACTCTAGTGTACCATGGAACACATTTTGGGAGCTG			
12093	T	T	A	TATTTTTGGATTCCATCTCTTTGTATATGCTACTCTAGTGTACCATGGAACACATTTTGGGAGCTG			
				CTGAAGGGTAAGCAGAGCCGCCAGCTCCCAAAATGTGTTCCATGGTACACTAGAGTAGCA[CT]ATACAAAGAGATGGAATCCAAAAATAATACGAAGCTTAG			
12093	IS	[CT]		GACAAAAGGGGCACTGTTTTC	ctg13980	1	
12095	I		S	GCCCTCATTCTCAGCCCCTCACCATCCT			
12095	P	C	S	ATGACGTGGCAGACGTGCGCCACCTGGY			
12095	P	T	S	CGCGCCGAGGATGCGCCACCTGGY			
12095	T	C	S	GGCCCCAGGTGGCGCACGGATGGTGAGGGGCTGAGAATGAGGGCAC			
12095	T	T	S	GGCCCCAGGTGGCGCATGGATGGTGAGGGGCTGAGAATGAGGGCAC			
				GGAGGATGCCAGGCCTGGAGACGTCCAGCCGCAGGCGGCTGCTGGGCCCCAGGTGGCGCA[CT]GGATGGTGAGGGGCTGAGAATGAGGGCACCGACTG			
12095	IS	[CT]		TGAAGCTGGGGCATCGATGACCCAA	ctg16537	20	SEMA7A
12096	I		S	CATGGGCTCTTGGGCTGGGAGCAA			
12096	P	A	S	CGCGCCGAGGTCGCTGCATTTAGTCAAGY			
12096	P	G	S	ATGACGTGGCAGACCCGCTGCATTTAGTCAAY			
12096	T	A	S	CAAACTTGACTAAATGCAGCGATGCTCCCAGCCCAAGAGCCCATGGG			
12096	T	G	S	CAAACTTGACTAAATGCAGCGGTGCTCCCAGCCCAAGAGCCCATGGG			
				CCAAGACTTTATCTTCTGGAAAATATTTTTCAGACTCCTCAAACTTGACTAAATGCAGCG[AG]TGCTCCCAGCCCAAGAGCCCATGGGTCGGGGAGTGGGTT			
12096	IS	[AG]		TGGATAGGAGAGCTGGGACTC	ctg22fn3	22	SEMA7A
12097	I		S	GCACCCTGGCAGGGACCCTGGAAT			
12097	P	C	S	ATGACGTGGCAGACGGCCATCAGATAACCCTY			
12097	P	T	S	CGCGCCGAGGAGCCATCAGATAACCCTY			
12097	T	C	S	GGTGAGGGTTATCTGATGGCTTCCAGGGTCCCTGCCAGGGTGCGA			
12097	T	T	S	GGTGAGGGTTATCTGATGGCTTTCCAGGGTCCCTGCCAGGGTGCGA			
				GGAGTTGTGTGGGGAAGCGAGGGGGAAAGGCTGGAGAAGTGGTGAGGGTTATCTGATGGC[CT]TTCCAGGGTCCCTGCCAGGGTGCGACACTCACCTCC			
12097	IS	[CT]		TTCAGCCTCTTCACAGCATACACC	ctg15665	20	
12101	I		S	TGCGCCACCTCTTTGGTATTGATCTCTTCCATCTGT			
12101	P	G	S	ATGACGTGGCAGACCCCTGAATTACTTCCATTGCY			
12101	P	T	S	CGCGCCGAGGACCTGAATTACTTCCATTGCY			
12101	T	G	S	GTCAGCAATGGAAGTAATTCAGGGCAGATGGAAGAGATCAATACCAAAGAGGTGGCGCAGC			
12101	T	T	S	GTCAGCAATGGAAGTAATTCAGGTCAGATGGAAGAGATCAATACCAAAGAGGTGGCGCAGC			
				AGCCCGGGAGCCCAACCCTTCGGTGACCGGCGCGCAGGTCAGCAATGGAAGTAATTCAGG[GT]CAGATGGAAGAGATCAATACCAAAGAGGTGGCGCAGC			
12101	IS	[GT]		GTATCACCACCGAGCTCAAGCGC	ctg14243	19	
12102	I		A	ACATCCCAATATGGTGGGGACCTCACAAACACATTA			
12102	P	C	A	ATGACGTGGCAGACCGGAGCAATTCAATATGCY			
12102	P	T	A	CGCGCCGAGGTGGAGCAATTCAATATGCAY			
12102	T	C	A	ACCTTGCATATTGAATTGCTCCGAATGTGTTTGTGAGGTCCCCACCATATTGGGATGTCT			
12102	T	T	A	ACCTTGCATATTGAATTGCTCCAAATGTGTTTGTGAGGTCCCCACCATATTGGGATGTCT			
				AGAAATGATTGTAGCAACATCCCAGACATCCCAATATGGTGGGGACCTCACAAACACATT[CT]GGAGCAATTCAATATGCAAGGTAAGTTTTGGTGCTAATAG			
12102	IS	[CT]		GCCAATGTTTTCATAATGTA	ctg15590	7	
12105	I		A	CCCAGGAGCCCACAGACTGGGTTTCCT			
12105	P	A	A	CGCGCCGAGGATCTGCGTACTTGCCAY			
12105	P	G	A	ATGACGTGGCAGACGTCTGCGTACTTGCCY			
12105	T	A	A	TGTGTGGCAAGTACGCAGATGGAAACCCAGTCTGTGGGCTCCTGGGTG			
12105	T	G	A	TGTGTGGCAAGTACGCAGACGGAAACCCAGTCTGTGGGCTCCTGGGTG			

FIGURE 129E

				GAGAGGGGCCAGCTGGAGGTAGCAGGGAGTAGCACCCAGGAGCCCACAGACTGGGTTTCC[AG]TCTGCGTACTTGCCACACACTATGTGACCCCTTGGCA			
12105 IS	[AG]			TGAGCCCCGTTTGCCTCATCTGC	ctg15144	12	
12106 I			A	CACCTCCTCAGCCTCCTGGTTCCCCT			
12106 P	C		A	CGCGCCGAGGCCTACCCCCTGCGY			
12106 P	G		A	ATGACGTGGCAGACGCTACCCCCTGCGY			
12106 T	C		A	TGTGCGCAGGGGGTAGGGGGGAACCAGGAGGCTGAGGAGGTGCT			
12106 T	G		A	TGTGCGCAGGGGGTAGCGGGGAACCAGGAGGCTGAGGAGGTGCT			
				CAAGGGGGCCTGAGGGAGCTGCAGTAGGGTCTCAGCACCTCCTCAGCCTCCTGGTTCCCC[CG]CTACCCCCTGCGCACAGATATCCAGTTCTGGAACAGC			
12106 IS	[CG]			CGGCAGTCCCTGGAGGGCCTGTC	ctg19262	19	
12110 I			A	GGGCGTTCTTCTCTGAGCCTGTTTCCACTA			
12110 P	T		A	CGCGCCGAGGTTTAAAATGATTATGGTGATGGAGY			
12110 P	C		A	ATGACGTGGCAGACCTTAAAATGATTATGGTGATGGAGY			
12110 T	T		A	CAGTCTCCATCACCATAATCATTTTAAAAGTGGAAACAGGCTCAGAGAAGAACGCCCCT			
12110 T	C		A	CAGTCTCCATCACCATAATCATTTTAAGAGTGGAAACAGGCTCAGAGAAGAACGCCCCT			
				GAGACCTGAGTTCCAGTCCTGGCTTTGTCAGGGGCGTTCTTCTCTGAGCCTGTTTCCACT[TC]TTAAAATGATTATGGTGATGGAGACTGACTCTGATTCAC			
12110 IS	[TC]			AGGGGCAGGGTCCATCATTGC	ctg22fin4	22	
12112 I			S	GCCCAGGGCCCTCTGTGGGTT			
12112 P	C		S	ATGACGTGGCAGACGCAGGATCATCCAGGCY			
12112 P	T		S	CGCGCCGAGGACAGGATCATCCAGGCY			
12112 T	C		S	CCCAGCCTGGATGATCCTGCACCCACAGAGGGCCCTGGGCAA			
12112 T	T		S	CCCAGCCTGGATGATCCTGTACCCACAGAGGGCCCTGGGCAA			
				CTTCGGTACCACACAGCACACACATAGAGCAGAGGTTCCCAGCCTGGATGATCCTG[CT]ACCCACAGAGGGCCCTGGGCAATGTCTGGAGACATCTGTGGT			
12112 IS	[CT]			TGTCACAGCCTGGGCGGG	ctg15279	10	
12114 I			A	CACAGCTCAAAAATGTTTTACCTGATTAAAAAAAAACCCAAACTAGA			
12114 P	T		A	CGCGCCGAGGTTGTTTGATCATTTTTGAAAGTAACY			
12114 P	C		A	ATGACGTGGCAGACCTGTTTGATCATTTTTGAAAGTAACY			
12114 T	T		A	TAGGGTTACTTTCAAAAATGATCAAACAACTAGTTTGGGTTTTTTTTTTAATCAGGTAAAACATTTTTGAGCTGTGGA			
12114 T	C		A	TAGGGTTACTTTCAAAAATGATCAAACAGCTAGTTTGGGTTTTTTTTTAATCAGGTAAAACATTTTTGAGCTGTGGA			
				ATTTTAAACTCTTCCCACAGCTCAAAAATGTTTTACCTGATTAAAAAAAAACCCAAACTAG[TC]TGTTTGATCATTTTTGAAAGTAACCCTAGAACTCTACAACTA			
12114 IS	[TC]			ACATGAACTGGCACTGAG	MULTIPLE	MULTIPLE	
12119 I			S	TCACTAGGAATTTTCATTTTCATTTAGGTTTTGTAATGTCCTTGTCTT			
12119 P	T		S	CGCGCCGAGGATTTTCATGACTGTTGATAATTTGTY			
12119 P	C		S	ATGACGTGGCAGACGTTTTCATGACTGTTGATAATTTGY			
12119 T	T		S	TAAGACAAATTATCAACAGTCATGAAAATAGACAAGGACATTACAAAACCTAAATGAAAATGAAAATTCCTAGTGATG			
12119 T	C		S	TAAGACAAATTATCAACAGTCATGAAAACAGACAAGGACATTACAAAACCTAAATGAAAATGAAAATTCCTAGTGATG			
				TAATCTCAGGTGTTTTCATAGATCAAAGTGGGTAAGACAAATTATCAACAGTCATGAAAA[TC]AGACAAGGACATTACAAAACCTAAATGAAAATGAAAATTCC			
12119 IS	[TC]			TAGTGATGTTATATCCTAA	ctg15540	4	
12120 I			A	GGCGAGGGGCCCCCGCC			
12120 P	T		A	CGCGCCGAGGTGGGCTGCGATGGY			
12120 P	G		A	ATGACGTGGCAGACGGGGCTGCGATGGY			
12120 T	T		A	CAGGCCATCGCAGCCCAGCGGGGGCCCCTCGCCCC			
12120 T	G		A	CAGGCCATCGCAGCCCCGCGGGGGCCCCTCGCCCC			
				CCCGGGCACATTCGAGGAGTGCCACCCGGAAGTGCAAGGGTGAGGGGCGAGGGGCCCCCGC[TG]GGGCTGCGATGGCCTGGATCTCGGGGGAAGGGGG			
12120 IS	[TG]			AGGACACTGGGGACTCTGGGATTTGG	ctg15064	7	
12128 I			S	TCCACTTGTAAACTTTGAATATGATTACTCCGAACACTGTGACCACT			
12128 P	C		S	ATGACGTGGCAGACGAACCCCACAGAAACCY			
12128 P	T		S	CGCGCCGAGGAAACCCCACAGAAACCAY			
12128 T	C		S	ATCCTGGTTTCTGTGGGGTTCGTGGTCACAGTGTTCGGAGTAATCATATTCAAAGTTTACAAGTGGAAG			
12128 T	T		S	ATCCTGGTTTCTGTGGGGTTTGTGGTCACAGTGTTCGGAGTAATCATATTCAAAGTTTACAAGTGGAAG			
				GCAGAAAAAAAATCTCACCTTTTATCTACTTCTTTCTCTAATCCTGGTTTCTGTGGGGTT[CT]GTGGTCACAGTGTTCGGAGTAATCATATTCAAAGTTTACAA			
12128 IS	[CT]			GTGGAAGCAGTCTAGAGAC	ctg22fin7	22	
12136 I			S	CAGCTATGCCCTCTGCTCCTCATCCTCCTAT			
12136 P	C		S	ATGACGTGGCAGACGGTATAGTTCAAAGTCGTTTCY			
12136 P	T		S	CGCGCCGAGGAGTATAGTTCAAAGTCGTTTCCY			
12136 T	C		S	ACTGGGAAACGACTTTGAACTATACCTAGGAGGATGAGGAGCAGAGGGCATAGCTGGG			
12136 T	T		S	ACTGGGAAACGACTTTGAACTATACTTAGGAGGATGAGGAGCAGAGGGCATAGCTGGG			
				TGAAAGGAATTGGAAGGAGAAGTGAGCTTAAGGGGACTGGGAAACGACTTTGAACTATAC[CT]TAGGAGGATGAGGAGCAGAGGGCATAGCTGGGGACGA			
12136 IS	[CT]			TTACCACCAAATGAAAGCAATCC	ctg18911	9	
12137 I			A	GCAAGGCCGCCTGCCCGCA			
12137 P	C		A	ATGACGTGGCAGACCGTGGCCCAGGCY			
12137 P	T		A	CGCGCCGAGGTGTGGCCCAGGCY			
12137 T	C		A	CACGGCCTGGGCCACGGCGGGCAGGCGGCCTTGCAG			
12137 T	T		A	CACGGCCTGGGCCACAGCGGGCAGGCGGCCTTGCAG			
				GCACACAAAGGAGGACACTTATGAGAACCTGCATAAGGTGCTGCAAGGCCGCCTGCCCGC[CT]GTGGCCCAGGCCGTGGCCCAGCTCGCAGGGCAGCTC			
12137 IS	[CT]			CTCATCCGGCTCAGCCACGATCGC	ctg17004	X	TFR2
12140 I			A	GGTGCTAGAACTCCGGCCGGCAC			
12140 P	G		A	ATGACGTGGCAGACGCTCCTTTTCTCGCCY			
12140 P	T		A	CGCGCCGAGGTCTCCTTTTCTCGCCAY			
12140 T	G		A	GCAGTGGCGAGAAAAGGAGCTGCCGGCCGGAGTTCTAGCACCGA			
12140 T	T		A	GCAGTGGCGAGAAAAGGAGATGCCGGCCGGAGTTCTAGCACCGA			
				GGCTTCCCTCACCCGGCCGCTCCGCACCTCTCCTTCTCGGTGCTAGAACTCCGGCCGGCA[GT]CTCCTTTTCTCGCCACTGCCTCCTGCCCTGCGGAGAA			
12140 IS	[GT]			GCGAGAGGGCGAGACACCCGAGC			
12142 I			S	TCTTTCTCTCCCAACCCGTGTCAGGTCCTTCC			
12142 P	A		S	CGCGCCGAGGTTCCTGGATACTCATAACGY			
12142 P	T		S	ATGACGTGGCAGACATCCTGGATACTCATAACGCY			
12142 T	A		S	GGCCGCGTTATGAGTATCCAGGAAGAAGGACCTGACACGGGTTGGGAGAGAAAGAGA			
12142 T	T		S	GGCCGCGTTATGAGTATCCAGGATGAAGGACCTGACACGGGTTGGGAGAGAAAGAGA			
				CTCTAGAAACGCGACGCCCAATGGGAGTGAGAAATGGGGCCGCGTTATGAGTATCCAGGA[AT]GAAGGACCTGACACGGGTTGGGAGAGAAAGAGAAACT			
12142 IS	[AT]			CTGGGGAGATGGGGAATTCTCAA	ctg15064	7	
12151 I			A	CGGGCCCAAGGCTGCTGCCC			
12151 P	G		A	ATGACGTGGCAGACGGTGTGTGTCAAAGGGY			
12151 P	T		A	CGCGCCGAGGTGTGTGTGTCAAAGGGAY			
12151 T	G		A	TGGTTCCCTTTGACACACACCGGCAGCAGCCTTGGGCCCGTG			
12151 T	T		A	TGGTTCCCTTTGACACACACAGGCAGCAGCCTTGGGCCCGTG			
				TTGAGTGTGAAGCAGAGAACAAGGCCTGAGAGGAAAAGTCACGGGCCCAAGGCTGCTGCC[GT]GTGTGTGTCAAAGGGAACCACTCATCAGTATTCGAGG			
12151 IS	[GT]			GATCGTCTTCCCGTCATTCCTTC	ctg19247	7	
12158 I			A	GCAGGCCTGGTCTCCACGAGCTCCT			
12158 P	A		A	CGCGCCGAGGACGTCCTGGGTCTGY			
12158 P	G		A	ATGACGTGGCAGACGCGTCCTGGGTCTGY			
12158 T	A		A	GGACCAGACCCAGGACGTGGAGCTCGTGGAGACCAGGCCTGCAG			
12158 T	G		A	GGACCAGACCCAGGACGCGGAGCTCGTGGAGACCAGGCCTGCAG			
				ACCACAGCTGCCCACTTCTGGAAGGTTCCATCCCCTGCAGGCCTGGTCTCCACGAGCTCC[AG]CGTCCTGGGTCTGGTCCTCCCCATCCCGCTGCCAGGT			
12158 IS	[AG]			CAGTATGATCTCCGCAGGGTAGA	ctg25099	7	MULTIPLE SHORT GENE NAMES
12169 I			A	CCATCCCATCCTCGTCTTTATCCCAACCCAACA			
12169 P	T		A	CGCGCCGAGGTCCTTCCTTCCCCACY			
12169 P	C		A	ATGACGTGGCAGACCCCTTCCTTCCCCACY			
12169 T	T		A	AGTGGTGGGGAAGGAAGGAGTTGGGTTGGGATAAAGACGAGGATGGGATGGGG			
12169 T	C		A	AGTGGTGGGGAAGGAAGGGGTTGGGTTGGGATAAAGACGAGGATGGGATGGGG			

FIGURE 129E



12169 IS	[TC]		ACCTTCCAGCTCATACCTAATTCCAACCCCATCCCATCCTCGTCTTTATCCCAACCCAAC[TC]CCTTCCTTCCCCACCACTGCCCCAGATCCCAAAGTGACAG CTCTCACGTTGGCACATTTA	ctg15140	12	
12174 I		A	GGCTAGGGGACAGCAGTGTGTCCAATGCA			
12174 P	C	A	ATGACGTGGCAGACCCACCCTTTTTCTTGCAY			
12174 P	T	A	CGCGCCGAGGTCACCCTTTTTCTTGCAGY			
12174 T	C	A	GCACCTGCAAGAAAAAGGGTGGGCATTGGACACACTGCTGTCCCCTAGCCCC			
12174 T	T	A	GCACCTGCAAGAAAAAGGGTGAGCATTGGACACACTGCTGTCCCCTAGCCCC			
12174 IS	[CT]		AGAGGTGGGTGGGGCAGTGGTTGGGGCAGGGGGGCTAGGGGACAGCAGTGTGTCCAATGC[CT]CACCCTTTTTCTTGCAGGTGCTCCGAACCCTGGGTT ACGTGGACGAGGCGGGCACTGTGA	ctg15064	7	
12203 I		S	GGAGCTCCATAAGATTTTATTTGTGGCTTTTAAGGAGAGAACATTTCCTCC			
12203 P	T	S	CGCGCCGAGGATCTGTTGGATCAAAGGGY			
12203 P	A	S	ATGACGTGGCAGACTTCTGTTGGATCAAAGGGY			
12203 T	T	S	GGAGCCCTTTGATCCAACAGATGAGGAAATGTTCTCTCCTTAAAAGCCACAAATAAAATCTTATGGAGCTCCAA			
12203 T	A	S	GGAGCCCTTTGATCCAACAGAAGAGGAAATGTTCTCTCCTTAAAAGCCACAAATAAAATCTTATGGAGCTCCAA			
12203 IS	[TA]		TGAAGGCGATTAAAATGCACACAAATTTGTTTCTGGCTTGGAGCCCTTTGATCCAACAGA[TA]GAGGAAATGTTCTCTCCTTAAAAGCCACAAATAAAATCTTA TGGAGCTCCAAATATGCCC	ctg13740	5	
12216 I		A	CCTTCTTGAGAAGTGAAAAATGCAAAGTCCTTTCTGTCA			
12216 P	T	A	CGCGCCGAGGTCCTCACCACTGACTTGY			
12216 P	C	A	ATGACGTGGCAGACCCCTCACCACTGACTTY			
12216 T	T	A	TTTGCAAGTCAGTGGTGAGGAGACAGAAAGGACTTTGCATTTTTCACTTCTCAAGAAGGCT			
12216 T	C	A	TTTGCAAGTCAGTGGTGAGGGGACAGAAAGGACTTTGCATTTTTCACTTCTCAAGAAGGCT			
12216 IS	[TC]		CTGGGGTAGGGCTCTTTATAAGCCTTCTTGAGAAGTGAAAAATGCAAAGTCCTTTCTGTC[TC]CCTCACCACTGACTTGCAAACTCCAGCGAAGGCCTCACC CCTCAGCTGGCCCAGAGCCTC			
12221 I		A	CCTCACCGAGCATGCTTCCCTAGGATCCA			
12221 P	C	A	ATGACGTGGCAGACCGTCTTCCAGAGAACCTY			
12221 P	T	A	CGCGCCGAGGTGTCTTCCAGAGAACCTGY			
12221 T	C	A	CCCACAGGTTCTCTGGAAGACGGGATCCTAGGGAAGCATGCTCGGTGAGGAA			
12221 T	T	A	CCCACAGGTTCTCTGGAAGACAGGATCCTAGGGAAGCATGCTCGGTGAGGAA			
12221 IS	[CT]		AGAGAGGAACCAATACCTTCAAGGCTCTTCTTCCTCACCGAGCATGCTTCCCTAGGATCC[CT]GTCTTCCAGAGAACCTGTGGGCTGACTGCCCTCCGAAG AGAGTTCTGGATGTCTGGCTCA	ctg19262	19	SMOH
12223 I		A	GGTTGCCGGGTGGAAATGCCTTTTCTACAAAAGA			
12223 P	C	A	ATGACGTGGCAGACCTAAATCCATCTGTTTGCAACY			
12223 P	T	A	CGCGCCGAGGTTAAATCCATCTGTTTGCAACY			
12223 T	C	A	AGAGGTTGCAAACAGATGGATTTAGCTTTTGTAGAAAAGGCATTTCCACCCGGCAACCCT			
12223 T	T	A	AGAGGTTGCAAACAGATGGATTTAACTTTTGTAGAAAAGGCATTTCCACCCGGCAACCCT			
12223 IS	[CT]		CTTCCCCAGTTCCTCAGGATGGGGAAGGGTTGCCGGGTGGAAATGCCTTTTCTACAAAAG[CT]TAAATCCATCTGTTTGCAACCTCTAGGCCCTAAGACAAT TTAACCATCCTTTTCCAGAAC	ctg_na	NA	
12288 I		S	ACCGTACCCGGCCTCTTGGGCTTA			
12288 P	A	S	CGCGCCGAGGTTCTGATGAGAAAAGGTGGY			
12288 P	G	S	ATGACGTGGCAGACCTCTGATGAGAAAAGGTGGY			
12288 T	A	S	GTCACCACCTTTTCTCATCAGAAAAGCCCAAGAGGCCGGGTACGGTGG			
12288 T	G	S	GTCACCACCTTTTCTCATCAGAGAAGCCCAAGAGGCCGGGTACGGTGG			
12288 IS	[AG]		CGCCTCTGATATTTCTTTCAAAGCATTGGCCCAGTATCGTCACCACCTTTTCTCATCAGA[AG]AAGCCCAAGAGGCCGGGTACGGTGGCTCACGCTTGTAAT CCCAGCACTTTGGGAGGCCAA	ctg22fin3	22	
12302 I		S	GCCCTTTTATTGAATTAGATAGCCATGTGAGCCTGA			
12302 P	A	S	CGCGCCGAGGTGGGTACTTGGGACCY			
12302 P	G	S	ATGACGTGGCAGACCGGGTACTTGGGACCY			
12302 T	A	S	ATGTGGTCCCAAGTACCCACAGGCTCACATGGCTATCTAATTCAATAAAAGGGCCT			
12302 T	G	S	ATGTGGTCCCAAGTACCCGCAGGCTCACATGGCTATCTAATTCAATAAAAGGGCCT			
12302 IS	[AG]		TAGAAGTGAGATTCTCATCCAGAGATAATCCAGTAGGAAAAAATGTGGTCCCAAGTACCC[AG]CAGGCTCACATGGCTATCTAATTCAATAAAAGGGCCTTAT TTTTTCTTGAAATATCTGTT	ctg19247	7	
12323 I		A	AGGAGGAGAAGGAAAAAAAAGAATTAGAAAACAACATCCTCTATGGTAGCTTT			
12323 P	G	A	ATGACGTGGCAGACGAAAATGGACCAAACAGTTTATY			
12323 P	C	A	CGCGCCGAGGCAAAATGGACCAAACAGTTTATY			
12323 T	G	A	ATAAATAAACTGTTTGGTCCATTTTCAAGCTACCATAGAGGATGTTGTTTTCTAATTCTTTTTTTTCCTTCTCCTCCTTA			
12323 T	C	A	ATAAATAAACTGTTTGGTCCATTTTGAAGCTACCATAGAGGATGTTGTTTTCTAATTCTTTTTTTTCCTTCTCCTCCTTA			
12323 IS	[GC]		GGAGAATAAGGAGGAGAAGGAAAAAAAAGAATTAGAAAACAACATCCTCTATGGTAGCTT[GC]AAAATGGACCAAACAGTTTATTTATGCATATGTTCGTTTT ATACAAATAATCCCAGAATC	ctg15972	16	
12326 I		A	GTGAGTCTCCCTTGGCGGCCGTTCA			
12326 P	T	A	CGCGCCGAGGTTGGGATGCCGCCY			
12326 P	C	A	ATGACGTGGCAGACCTGGGATGCCGCCY			
12326 T	T	A	AGCTGGCGGCATCCCAAGAACGGCCGCCAAGGGAGACTCACCT			
12326 T	C	A	AGCTGGCGGCATCCCAGGAACGGCCGCCAAGGGAGACTCACCT			
12326 IS	[TC]		GCAGGGAAGGAGCTGAGGAATGACTGGACTGTGCAGGTGAGTCTCCCTTGGCGGCCGTT[TC]TC[TGGGATGCCGCCAGCTCCATTGCTCATGCCGCCTGC GCTGCCAATCTGACATTCATGCCT	ctg14932	16	
12351 I		A	ACCAGGAGGAAGCCCACGCCCTA			
12351 P	T	A	CGCGCCGAGGTGCACACCTGATGCCY			
12351 P	C	A	ATGACGTGGCAGACCGCACACCTGATGCY			
12351 T	T	A	ATGTGGCATCAGGTGTGCAAGGGCGTGGGCTTCCTCCTGGTGA			
12351 T	C	A	ATGTGGCATCAGGTGTGCGAGGGCGTGGGCTTCCTCCTGGTGA			
12351 IS	[TC]		GGCCTCTGCTTCCCTGCCCCTCCCCCTGCCCCCACCTCACCAGGAGGAAGCCCACGCCCT]TC]GCACACCTGATGCCACATCCGCTTGAGTGGCAGGCGA GTGAAGATGTTGCCCAAATCCTG	ctg18037	7	
12362 I		A	GGAGGTGCAACAGGCCACTCATCGTGAT			
12362 P	G	A	ATGACGTGGCAGACGGCCTCCCCTTCTACY			
12362 P	A	A	CGCGCCGAGGAGCCTCCCCTTCTACY			
12362 T	G	A	GAGGGTAGAAGGGGAGGCCTCACGATGAGTGGCCTGTTGCACCTCCAG			
12362 T	A	A	GAGGGTAGAAGGGGAGGCTTCACGATGAGTGGCCTGTTGCACCTCCAG			
12362 IS	[GA]		CCTGCCCAACAGCAACACGCCCGCAGCTGACCTGGAGGTGCAACAGGCCACTCATCGTGA[GA]GCCTCCCCTTCTACCCTCAACGACAAAAGTGGCCTGC ATTTAGGGAAGCCTGGCCACCGG	ctg15054	1	SCA1
12370 I		A	TGGAAGTCAAGAAACCACTTTACCTCCTAGCTCTGTCAT			
12370 P	A	A	CGCGCCGAGGATAACCAGCCATGAATCCY			
12370 P	C	A	ATGACGTGGCAGACCTAACCAGCCATGAATCCY			
12370 T	A	A	TCTAGGATTCATGGCTGGTTATTGACAGAGCTAGGAGGTAAAGTGGTTTCTTGACTTCCAGA			
12370 T	C	A	TCTAGGATTCATGGCTGGTTAGTGACAGAGCTAGGAGGTAAAGTGGTTTCTTGACTTCCAGA			
12370 IS	[AC]		CATTGTGGCATCATAGAAAATCTGGAAGTCAAGAAACCACTTTACCTCCTAGCTCTGTCA[AC]TAACCAGCCATGAATCCTAGAGTGATTCATTTCACTTCTCT GGGAGATGGCTCCCTCATT	ctg16166	14	
12391 I		A	CCCGAGATGCCGAGGATTTTGACAAGGACTCA			
12391 P	T	A	CGCGCCGAGGTGTCGTCCCGGATGY			
12391 P	C	A	ATGACGTGGCAGACCGTCGTCCCGGATGY			
12391 T	T	A	CTATCATCCGGGACGACAGAGTCCTTGTCAAAATCCTCGGCATCTCGGGCA			
12391 T	C	A	CTATCATCCGGGACGACGGAGTCCTTGTCAAAATCCTCGGCATCTCGGGCA			
12391 IS	[TC]		GGGAGGTGCAGAGCGCATGCTCTCTCTTGCCCGAGATGCCGAGGATTTTGACAAGGACTC[TC]GTCGTCCCGGATGATAGTGCTCAGGTTAATGCCAGTG GGAGGGCGGCGCCCAATAGTAAC	ctg12325	11	
12393 I		A	AGACCAGCCTGGCCAACATAGTGAAACCCA			
12393 P	T	A	CGCGCCGAGGTATCTCTACTAAAAATACAAAAATTAGCCY			
12393 P	C	A	ATGACGTGGCAGACCATCTCTACTAAAAATACAAAAATTAGCY			
12393 T	T	A	GCCCGGCTAATTTTTGTATTTTTAGTAGAGATAGGGTTTCACTATGTTGGCCAGGCTGGTCTTG			
12393 T	C	A	GCCCGGCTAATTTTTGTATTTTTAGTAGAGATGGGGTTTCACTATGTTGGCCAGGCTGGTCTTG			

FIGURE 129E

				GGAGGCCGAGATGGGCAAGGTCAGGAGTTCAAGACCAGCCTGGCCAACATAGTGAAACCC[TC]ATCTCTACTAAAAATACAAAAATTAGCCGGGCATGGTG		
12393	IS	[TC]		GCACGTGCCTATAGTCCCAGCT	ctg5212	19
12395	I		A	GGTCAGGCTAGGGTGAGGACCACGCT		
12395	P	A	A	CGCGCCGAGGAGCCTGCTCACGCY		
12395	P	G	A	ATGACGTGGCAGACGGCCTGCTCACGCY		
12395	T	A	A	AGATGCGTGAGCAGGCTGCGTGGTCCTCACCCTAGCCTGACCAG		
12395	T	G	A	AGATGCGTGAGCAGGCCGCGTGGTCCTCACCCTAGCCTGACCAG		
				GAGGTGCTGCATGCAGAGTGACCCAGTAAATTCCTGGTCAGGCTAGGGTGAGGACCACGC[AG]GCCTGCTCACGCATCTTCCGTCCCTGTCTCCCCGCTG		
12395	IS	[AG]		CTCAGCACCTCTGCTCTCTGGCC	ctg15907	6
12429	I		S	CAATTCTACTCTGTACTCAGTGGCCATTAAGCCAGCATTT		
12429	P	G	S	CGCGCCGAGGCTGCCTCTGCTGCAY		
12429	P	C	S	ATGACGTGGCAGACGTGCCTCTGCTGCAY		
12429	T	G	S	CTGATGCAGCAGAGGCAGAATGCTGGCTTAATGGCCACTGAGTACAGAGTAGAATTGGA		
12429	T	C	S	CTGATGCAGCAGAGGCACAATGCTGGCTTAATGGCCACTGAGTACAGAGTAGAATTGGA		
				CTCGTGGTGGCCCTGCTTCCTCACTGCTTCGGAGACGCTCATGCTGATGCAGCAGAGGCA[GC]AATGCTGGCTTAATGGCCACTGAGTACAGAGTAGAATT		
12429	IS	[GC]		GGAGTAAACTGAGGGCTGTTTC	ctg25099	7
12471	I		A	CTCTGGAAACCGGCCAGTTCTGCCGAAATAAAA		
12471	P	C	A	ATGACGTGGCAGACCCACAGTTTCACTCCTGY		
12471	P	T	A	CGCGCCGAGGTCACAGTTTCACTCCTGGY		
12471	T	C	A	TAAGCCAGGAGTGAAACTGTGGTTTATTTCGGCAGAACTGGCCGGTTTCCAGAGAC		
12471	T	T	A	TAAGCCAGGAGTGAAACTGTGATTTATTTCGGCAGAACTGGCCGGTTTCCAGAGAC		
				CCTGAAGGAGATGCCCGATACCGGGGGTCTCTGGAAACCGGCCAGTTCTGCCGAAATAAA[CT]CACAGTTTCACTCCTGGCTTAGGCAAGCAGCTGGCAGA		
12471	IS	[CT]		GACCTTGGAGACAGCCATGGGC	ctg12483	1
12479	I		A	CCTTAGTTTTCTGATGGGGAAGAGAGATCACTCATATAAAGATTTAATC		
12479	P	G	A	ATGACGTGGCAGACGCAGGCTTTATACCTGTAATY		
12479	P	T	A	CGCGCCGAGGTCAGGCTTTATACCTGTAATACY		
12479	T	G	A	TGAGGTATTACAGGTATAAAGCCTGCATTAAATCTTTATATGAGTGATCTCTCTTCCCCATCAGAAAACTAAGGAA		
12479	T	T	A	TGAGGTATTACAGGTATAAAGCCTGAATTAAATCTTTATATGAGTGATCTCTCTTCCCCATCAGAAAACTAAGGAA		
				TTTGAAAATTTTCCTTAGTTTTCTGATGGGGAAGAGAGATCACTCATATAAAGATTTAAT[GT]CAGGCTTTATACCTGTAATACCTCATACTGTAATATTCATG		
12479	IS	[GT]		GCTTATGATATTTGTATCT	ctg22fin6	22
12482	I		S	AGTGTGCAAACCATCCGAAATGTGTTCAGCGTA		
12482	P	A	S	CGCGCCGAGGTGAAGCTGGATATCGGCY		
12482	P	G	S	ATGACGTGGCAGACCGAAGCTGGATATCGGY		
12482	T	A	S	GAGAGCCGATATCCAGCTTCAACGCTGAACACATTTCGGATGGTTTGCACACTCA		
12482	T	G	S	GAGAGCCGATATCCAGCTTCGACGCTGAACACATTTCGGATGGTTTGCACACTCA		
				TTCATAGTGGTTTGGAAAATGGTTGACTATTTGGTCATCTGAGAGCCGATATCCAGCTTC[AG]ACGCTGAACACATTTCGGATGGTTTGCACACTCATCCTGA		
12482	IS	[AG]		AAGAGATGAGCAGGAGAGAC	ctg12325	11
12484	I		A	GTGCAAGTGTGTCCTATGGATGACAAGGGCTATAGTCA		
12484	P	T	A	CGCGCCGAGGTTGTGTCCCCAAGGAAY		
12484	P	C	A	ATGACGTGGCAGACCTGTGTCCCCAAGGAAY		
12484	T	T	A	CACTTTCCTTGGGGACACAAGACTATAGCCCTTGTCATCCATAGGACACACTTGCACTT		
12484	T	C	A	CACTTTCCTTGGGGACACAGGACTATAGCCCTTGTCATCCATAGGACACACTTGCACTT		
				CGAGTTCTGAGTTAACTCGGCAAGTGCAAGTGTGTCCTATGGATGACAAGGGCTATAGTC[TC]TGTGTCCCCAAGGAAAGTGGACAAAAGCTCATGGAGCC		
12484	IS	[TC]		TGTGCCTTCTGGTGATGGGCGC	ctg15285	12
12526	I		A	CCAAAACCCTTGAAACTTCATGTTGTTACAGATGACTGCAAACT		
12526	P	A	A	CGCGCCGAGGACAACACCAATTTTTCTAACTTY		
12526	P	G	A	ATGACGTGGCAGACGCAACACCAATTTTTCTAACTY		
12526	T	A	A	TTTCAAGTTAGAAAAATTGGTGTTGTGTTTGCAGTCATCTGTAACAACATGAAGTTTCAAGGGTTTTGGCA		
12526	T	G	A	TTTCAAGTTAGAAAAATTGGTGTTGCGTTTGCAGTCATCTGTAACAACATGAAGTTTCAAGGGTTTTGGCA		
				TACTTCATGTGGGTCTGCCAAAACCCTTGAAACTTCATGTTGTTACAGATGACTGCAAAC[AG]CAACACCAATTTTTCTAACTTGAAATGATGTTATAAGTGAA		
12526	IS	[AG]		TTCCCAGCTTGCTGAACCA		
12529	I		S	CCCTAAAGAGACTTATTCACAAACTGCAAATGAGTGTTTGCACAT		
12529	P	G	S	ATGACGTGGCAGACCCCTCAGCCTCTGGY		
12529	P	T	S	CGCGCCGAGGACCTCAGCCTCTGGTY		
12529	T	G	S	TTAAACCAGAGGCTGAGGGTGTGCAAACACTCATTTGCAGTTTGTGAATAAGTCTCTTTAGGGGT		
12529	T	T	S	TTAAACCAGAGGCTGAGGTTGTGCAAACACTCATTTGCAGTTTGTGAATAAGTCTCTTTAGGGGT		
				TCAGTAGCCCTATTAGAGATTATGTTAACACTTGAAGAGGAGTTAAACCAGAGGCTGAGG[GT]TGTGCAAACACTCATTTGCAGTTTGTGAATAAGTCTCTTT		
12529	IS	[GT]		AGGGGTGGCAGTTTGTTTCT	ctg18709	X
12530	I		S	GTTCCCAAAGGAATTGTCATGTGAAGTAATGTTCTCTCTGTTCTTATTTTCAACT		
12530	P	T	S	CGCGCCGAGGAAATTGCCCAGACTGAAGY		
12530	P	G	S	ATGACGTGGCAGACCAATTGCCCAGACTGAAY		
12530	T	T	S	TTTGCTTCAGTCTGGGCAATTTGTTGAAAATAAGAACAGAGAGAACATTACTTCACATGACAATTCCTTTGGGAACGC		
12530	T	G	S	TTTGCTTCAGTCTGGGCAATTGGTTGAAAATAAGAACAGAGAGAACATTACTTCACATGACAATTCCTTTGGGAACGC		
				TTAACTTCTTTACATGCCCAACTACTCTTGACAGTTACTTTTGCTTCAGTCTGGGCAATT[TG]GTTGAAAATAAGAACAGAGAGAACATTACTTCACATGACAA		
12530	IS	[TG]		TTCCTTTGGGAACGCATAC	ctg16263	1
12532	I		A	GCTGCCCTCTCCTGACCTCCCCCT		
12532	P	C	A	CGCGCCGAGGCCTCCAGAAGCATTCCTY		
12532	P	G	A	ATGACGTGGCAGACGCTCCAGAAGCATTCCY		
12532	T	C	A	AATAAGGAATGCTTCTGGAGGGGGGGAGGTCAGGAGAGGGCAGCTC		
12532	T	G	A	AATAAGGAATGCTTCTGGAGCGGGGGAGGTCAGGAGAGGGCAGCTC		
				TCTAAACATGGGAACAAACTCCCCAAAAAGAGACAGAGCTGCCCTCTCCTGACCTCCCC[CG]CTCCAGAAGCATTCCTTATTCGTGGTCTTTTTTGTTTGTT		
12532	IS	[CG]		TGTTTGTTTGTTGTGGTTA	ctg13980	1
12542	I		S	TGCCCGACTCCCCTGCCCTGTA		
12542	P	A	S	CGCGCCGAGGTGCCCATCGAGCTCY		
12542	P	G	S	ATGACGTGGCAGACCGCCCATCGAGCTY		
12542	T	A	S	GCTTGAGCTCGATGGGCAACAGGGCAGGGGAGTCGGGCACA		
12542	T	G	S	GCTTGAGCTCGATGGGCGACAGGGCAGGGGAGTCGGGCACA		
				GAGGGCCTGACCTGCAGGGCCGGCAGGTACTTGGGCAGCTCCTGCTTGAGCTCGATGGGC[AG]ACAGGGCAGGGGAGTCGGGCACATAGTCGCCCTCTG		
12542	IS	[AG]		TCAGGGCGCTGCTCTGCGGCGTTC	ctg15907	6
12559	I		A	CTCTTGCAAGGGGTAAGGGCACTCCTCTA		
12559	P	C	A	ATGACGTGGCAGACCGGAGGAACAGCCTY		
12559	P	T	A	CGCGCCGAGGTGGAGGAACAGCCTGY		
12559	T	C	A	CTCCCAGGCTGTTCCTCCGAGAGGAGTGCCCTTACCCCTTGCAAGAGGT		
12559	T	T	A	CTCCCAGGCTGTTCCTCCAAGAGGAGTGCCCTTACCCCTTGCAAGAGGT		
				TCCTTGGGTCCTTGTCATATTGTGGAAGGAACCTCTTGCAAGGGGTAAGGGCACTCCTCT[CT]GGAGGAACAGCCTGGGAGTGGCTACTTTGAGGCTCTTG		
12559	IS	[CT]		GTGCTGGAGTGTCATCAGCACA	ctg16105	5
12582	I		S	CATACATGACTCATAACACATATTCTATCCTGTCGGTCACATTGCTTT		
12582	P	G	S	ATGACGTGGCAGACCCCTTTCTAATACAATTTCTTGGY		
12582	P	T	S	CGCGCCGAGGACCTTTCTAATACAATTTCTTGGY		
12582	T	G	S	CTCTCCAAGAAATTGTATTAGAAAGGGAAGCAATGTGACCGACAGGATAGAATATGTGTTATGAGTCATGTATGTT		
12582	T	T	S	CTCTCCAAGAAATTGTATTAGAAAGGTAAGCAATGTGACCGACAGGATAGAATATGTGTTATGAGTCATGTATGTT		
				ACTTCTTGTGTCCATTATTCAAGAAGATACCAGCCTCTCCAAGAAATTGTATTAGAAAGG[GT]AAGCAATGTGACCGACAGGATAGAATATGTGTTATGAGTC		
12582	IS	[GT]		ATGTATGTTGATTTTATATC	ctg16105	5
12589	I		A	CCCAAATTATAGGGCCTCTCCTCAGAGCTTTCTGGT		
12589	P	C	A	ATGACGTGGCAGACCTTTGTGCAAGCCCGY		
12589	P	A	A	CGCGCCGAGGATTTGTGCAAGCCCGY		
12589	T	C	A	AAATCGGGCTTGCACAAAGCCAGAAAGCTCTGAGGAGAGGCCCTATAATTTGGGCT		
12589	T	A	A	AAATCGGGCTTGCACAAATCCAGAAAGCTCTGAGGAGAGGCCCTATAATTTGGGCT		

FIGURE 129E

				TTTAAGATTGACCTTTCTCCTGAAGCCCAAATTATAGGGCCTCTCCTCAGAGCTTTCTGG[CA]TTTGTGCAAGCCCGATTTCCCAAGGAAGGTCCTTCATTGG		
12589	IS	[CA]		CCTCTGAGAGAGGCAGTATC	ctg13934	8
12592	I		A	GGATTTTCAGATTCATTCCTAGAGGCTACGAGTCCCCAT		
12592	P	A	A	CGCGCCGAGGATTCTCTAGGCTTCATGATGY		
12592	P	G	A	ATGACGTGGCAGACGTTCTCTAGGCTTCATGATGY		
12592	T	A	A	AAAGCATCATGAAGCCTAGAGAATTGGGGACTCGTAGCCTCTAGGAATGAATCTGAAAATCCCA		
12592	T	G	A	AAAGCATCATGAAGCCTAGAGAACTGGGGACTCGTAGCCTCTAGGAATGAATCTGAAAATCCCA		
				ATTCCATGACCCTAACACTCTGGGATTTTCAGATTCATTCCTAGAGGCTACGAGTCCCCA[AG]TTCTCTAGGCTTCATGATGCTTTTCTTCGATGAGGCTAGG		
12592	IS	[AG]		ATTTGAGGATCGCTAAGGCA	ctg15665	20
12618	I		S	TCCCTTCAGCTGTAGAACCCATAATAATGTCCCTCATCCT		
12618	P	T	S	CGCGCCGAGGATGCAGCCACTTTATAGACY		
12618	P	C	S	ATGACGTGGCAGACGTGCAGCCACTTTATAGACY		
12618	T	T	S	ATCTGTCTATAAAGTGGCTGCATGGATGAGGGACATTATTATGGGTTCTACAGCTGAAGGGAAC		
12618	T	C	S	ATCTGTCTATAAAGTGGCTGCACGGATGAGGGACATTATTATGGGTTCTACAGCTGAAGGGAAC		
				CTCCCTTATGTGAGAGTGAGCGTAGGCAGAGCCTAGCAATCTGTCTATAAAGTGGCTGCA[TC]GGATGAGGGACATTATTATGGGTTCTACAGCTGAAGGG		
12618	IS	[TC]		AACTGGGTTCCAAGCCCAACTC		
12624	I		S	AGGCATGAGAAACTTGAGATAAGAGTGAATTCTGAAACGT		
12624	P	C	S	ATGACGTGGCAGACGAGAACTTCTCTTGGTAAATATGAY		
12624	P	T	S	CGCGCCGAGGAAGAACTTCTCTTGGTAAATATGAY		
12624	T	C	S	TTCATCATATTTACCAAGAGAAGTTCTCCGTTTCAGAATTCACTCTTATCTCAAGTTTCTCATGCCTAA		
12624	T	T	S	TTCATCATATTTACCAAGAGAAGTTCTTCGTTTCAGAATTCACTCTTATCTCAAGTTTCTCATGCCTAA		
				TAAAGAAAAATTTAAAAAGAAAAAAAATAATATTTCATCATATTTACCAAGAGAAGTTCT[CT]CGTTTCAGAATTCACTCTTATCTCAAGTTTCTCATGCCTAAAA		
12624	IS	[CT]		CTTCACTTAGAGACAAA		
12634	I		S	GTTCAGACCCACTGTTTTATAGACATGGCCGTCACTCA		
12634	P	A	S	CGCGCCGAGGTGCAAGCTTAGCCTCAY		
12634	P	G	S	ATGACGTGGCAGACCGCAAGCTTAGCCTCY		
12634	T	A	S	ACAATGAGGCTAAGCTTGCAGAGTGACGGCCATGTCTATAAAACAGTGGGTCTGAACTG		
12634	T	G	S	ACAATGAGGCTAAGCTTGCGGAGTGACGGCCATGTCTATAAAACAGTGGGTCTGAACTG		
				CCTGCAAAGACGATGCTATTGTGCCCATTTTACAGAGGAGTACAATGAGGCTAAGCTTGC[AG]GAGTGACGGCCATGTCTATAAAACAGTGGGTCTGAACTG		
12634	IS	[AG]		CAACTCAGGTCAGCCTGGTTC	ctg_na	NA
12639	I		A	CCCACAGAGGTGTACACATGGGGAAACTGAGC		
12639	P	G	A	ATGACGTGGCAGACGCTCAGTGACCTGTCCY		
12639	P	T	A	CGCGCCGAGGTCTCAGTGACCTGTCCY		
12639	T	G	A	ACTTGGACAGGTCACTGAGCCTCAGTTTCCCCATGTGTACACCTCTGTGGGCT		
12639	T	T	A	ACTTGGACAGGTCACTGAGACTCAGTTTCCCCATGTGTACACCTCTGTGGGCT		
				CCCTTCTGAGCCTCATCTCATTGCCTCAGCCCACAGAGGTGTACACATGGGGAAACTGAG[GT]CTCAGTGACCTGTCCAAGTCCCCACAGCCAGGATGGCA		
12639	IS	[GT]		GGGCAGGGACTTGAAGTCAGGA	ctg_na	NA
12640	I		A	ACCCTTTTCTTCCATAGTGCTGAGGTCCTGGGT		
12640	P	G	A	ATGACGTGGCAGACGGAACTGGTTCCTGACTY		
12640	P	A	A	CGCGCCGAGGAGAACTGGTTCCTGACTY		
12640	T	G	A	CAGCAGTCAGGAACCAGTTCCCCCAGGACCTCAGCACTATGGAAGAAAAGGGTCA		
12640	T	A	A	CAGCAGTCAGGAACCAGTTCTCCCAGGACCTCAGCACTATGGAAGAAAAGGGTCA		
				AGCTAGGGCCCTAGATATACCTGGCTTGACCCTTTTCTTCCATAGTGCTGAGGTCCTGGG[GA]GAACTGGTTCCTGACTGCTGGAGTGCCTGCAACCAGGT		
12640	IS	[GA]		CACCATGGATGCCTGACTGTCT	ctg25114	1
12649	I		S	GAACTTAGATGCCATAGACACTATATTGCAGAAAGGTTGTGGAAAAGAT		
12649	P	C	S	ATGACGTGGCAGACGGATAGAAATGAGTCACAACTY		
12649	P	T	S	CGCGCCGAGGAGATAGAAATGAGTCACAACTTATY		
12649	T	C	S	GGAAATAAGTTGTGACTCATTTCTATCCTCTTTTCCACAACCTTTCTGCAATATAGTGTCTATGGCATCTAAGTTCTC		
12649	T	T	S	GGAAATAAGTTGTGACTCATTTCTATCTTCTTTTCCACAACCTTTCTGCAATATAGTGTCTATGGCATCTAAGTTCTC		
				GCTGCTCACCACATTGCATTGCAATTGATACCAGGAAATAAGTTGTGACTCATTTCTATC[CT]TCTTTTCCACAACCTTTCTGCAATATAGTGTCTATGGCATC		
12649	IS	[CT]		TAAGTTCTCCCTGGGACAA	ctg53	14
12650	I		A	GGTAAGTTCCTTTACTTTTCTTCAATTCTGCTGACATTTAGCCCCATTTAT		
12650	P	A	A	CGCGCCGAGGATCAAGAGGATATCTTCCTAAACY		
12650	P	G	A	ATGACGTGGCAGACGTCAAGAGGATATCTTCCTAAACY		
12650	T	A	A	GGAAGTTTAGGAAGATATCCTCTTGATTAAATGGGGCTAAATGTCAGCAGAATTGAAGAAAAGTAAAGGAACTTACCAA		
12650	T	G	A	GGAAGTTTAGGAAGATATCCTCTTGACTAAATGGGGCTAAATGTCAGCAGAATTGAAGAAAAGTAAAGGAACTTACCAA		
				ATCAAGTATTGGTAAGTTCCTTTACTTTTCTTCAATTCTGCTGACATTTAGCCCCATTTA[AG]TCAAGAGGATATCTTCCTAAACTTCCCAGACTTCTTCGCTG		
12650	IS	[AG]		CAGCACAGCAGAAGCTTAA	ctg53	14
12652	I		S	TTTTATTGCCATGCAATTTTGAGGAAGGGGCT		
12652	P	T	S	CGCGCCGAGGATCAGGTGTTAACTCTTAAAGGY		
12652	P	C	S	ATGACGTGGCAGACGTCAGGTGTTAACTCTTAAAGGY		
12652	T	T	S	TGAGCCTTTAAGAGTTAACACCTGATGCCCCTTCCTCAAAATTGCATGGCAATAAAACA		
12652	T	C	S	TGAGCCTTTAAGAGTTAACACCTGACGCCCCTTCCTCAAAATTGCATGGCAATAAAACA		
				TAGCCCCTTTTCCATGGCACTTTTTCAGCAGCAAATGAGCCTTTAAGAGTTAACACCTGA[TC]GCCCCTTCCTCAAAATTGCATGGCAATAAAACAAAATGAA		
12652	IS	[TC]		ATAAAAAGGATTATCTATTA	ctg16861	13
12657	I		S	CCAGGAGCTGGGCCGCAGGTTA		
12657	P	A	S	CGCGCCGAGGTGCCCTGACAGCAAY		
12657	P	G	S	ATGACGTGGCAGACCGCCCTGACAGCAY		
12657	T	A	S	ATGTTTGCTGTCAGGGCAAACCTGCGGCCCAGCTCCTGGGG		
12657	T	G	S	ATGTTTGCTGTCAGGGCGAACCTGCGGCCCAGCTCCTGGGG		
				CCGGTCACGGTCAGGCCGCACACTACGCAAGAACTTCTTAAAGATGTTTGCTGTCAGGGC[AG]AACCTGCGGCCCAGCTCCTGGGGCTGGCCTTTCTCTC		
12657	IS	[AG]		CTTTGGGTTCACGTGCCCCCCCA	ctg17036	17
12659	I		A	CTAGCACCTGGCACTTGCTACATACCCATAAAACACATAA		
12659	P	C	A	ATGACGTGGCAGACCTGAATATCACTGACCACCY		
12659	P	T	A	CGCGCCGAGGTTGAATATCACTGACCACCY		
12659	T	C	A	CTGGGGTGGTCAGTGATATTCAGTATGTGTTTTATGGGTATGTAGCAAGTGCCAGGTGCTAGCG		
12659	T	T	A	CTGGGGTGGTCAGTGATATTCAATATGTGTTTTATGGGTATGTAGCAAGTGCCAGGTGCTAGCG		
				GTATGTCACCCCAGAACCTCGCTAGCACCTGGCACTTGCTACATACCCATAAAACACATA[CT]TGAATATCACTGACCACCCCAGATCACCCTCCAGGCTGC		
12659	IS	[CT]		TTGCTACCCTCAGACGGTAAC		
12660	I		A	TCCTGTCTCTCAAGAAATTTATCTCTGAGTCAGTGACTTTTGCATCTT		
12660	P	A	A	CGCGCCGAGGAAGTGTCACCACAGAAAGY		
12660	P	G	A	ATGACGTGGCAGACGAGTGTCACCACAGAAAGY		
12660	T	A	A	AGCCCTTTCTGTGGTGACACTTAGATGCAAAAGTCACTGACTCAGAGATAAATTTCTTGAGAGACAGGAGT		
12660	T	G	A	AGCCCTTTCTGTGGTGACACTCAGATGCAAAAGTCACTGACTCAGAGATAAATTTCTTGAGAGACAGGAGT		
				AAGCAATGAATACTCCTGTCTCTCAAGAAATTTATCTCTGAGTCAGTGACTTTTGCATCT[AG]AGTGTCACCACAGAAAGGGCTCCAGGAGGGAGGACTAGA		
12660	IS	[AG]		GAGAGAAATGATCGTTGATGT	ctg16306	4
12661	I		A	GCCCTTACTTAGGGTGATAGAAATTCTTTTTCTTTTTGCTCCTTTGTGA		
12661	P	T	A	CGCGCCGAGGTCACATTCTTCCATCGGTY		
12661	P	C	A	ATGACGTGGCAGACCCACATTCTTCCATCGGY		
12661	T	T	A	GCTGACCGATGGAAGAATGTGACACAAAGGAGCAAAAAGAAAAAGAAATTTCTATCACCCTAAGTAAGGGCTT		
12661	T	C	A	GCTGACCGATGGAAGAATGTGGCACAAAGGAGCAAAAAGAAAAAGAAATTTCTATCACCCTAAGTAAGGGCTT		
				TCTTCAAGGGAAGCCCTTACTTAGGGTGATAGAAATTCTTTTTCTTTTTGCTCCTTTGTG[TC]CACATTCTTCCATCGGTCAGCAGGCAACTGACAGGTGTAC		
12661	IS	[TC]		CCCTCCCTGAGCCCCATTCA	ctg19247	7
12668	I		A	CCCCGGCACAAAGGTAAGCTAGCCTCCA		
12668	P	C	A	ATGACGTGGCAGACCGAGGCTGGAGTGAAY		
12668	P	T	A	CGCGCCGAGGTGAGGCTGGAGTGAATY		
12668	T	C	A	CCCCATTCACTCCAGCCTCGGGAGGCTAGCTTACCTTTGTGCCGGGGAT		
12668	T	T	A	CCCCATTCACTCCAGCCTCAGGAGGCTAGCTTACCTTTGTGCCGGGGAT		

FIGURE 129E

				CCACGTGGATGAGTTCATGTCCTTTGTCCCCATCCCCGGCACAAAGGTAAGCTAGCCTCC[CT]GAGGCTGGAGTGAATGGGGTAGCAGCAAACCAATATAT		
12668	IS	[CT]		TACCCGCCCCTGCCAGCAGAGG	ctg14493	3
12670	I		S	TCTTTCCAGTGCCACAGGTGCATAACCTATTTCTCTCTAT		
12670	P	C	S	ATGACGTGGCAGACGAGCATTACCACCAACACY		
12670	P	T	S	CGCGCCGAGGAAGCATTACCACCAACACY		
12670	T	C	S	TATTGTGTTGGTGGTAATGCTCTAGAGAGAAATAGGTTATGCACCTGTGGCACTGGAAAGAGG		
12670	T	T	S	TATTGTGTTGGTGGTAATGCTTTAGAGAGAAATAGGTTATGCACCTGTGGCACTGGAAAGAGG		
				CACAGCTCAAGTGTTCAATAGTCACATAAGGCTAGTGGCTATTGTGTTGGTGGTAATGCT[CT]TAGAGAGAAATAGGTTATGCACCTGTGGCACTGGAAAGA		
12670	IS	[CT]		GGTTCTTTCATTTTCTTATGG	ctg15972	16
12722	I		S	ACCATTTGTTGATCTCCTGCCTATATCTAATACATAAGCACTCCAAGAAACT		
12722	P	C	S	ATGACGTGGCAGACGTATTCCCTCTATAAGCAATCCY		
12722	P	G	S	CGCGCCGAGGCTATTCCCTCTATAAGCAATCCY		
12722	T	C	S	AAATGGATTGCTTATAGAGGGAATACGTTTCTTGGAGTGCTTATGTATTAGATATAGGCAGGAGATCAACAAATGGTTA		
12722	T	G	S	AAATGGATTGCTTATAGAGGGAATAGGTTTCTTGGAGTGCTTATGTATTAGATATAGGCAGGAGATCAACAAATGGTTA		
				TCTCGTTTTTTGTTTTGTTTTGTTTTGTTTTAAATAAATGGATTGCTTATAGAGGGAATA[CG]GTTTCTTGGAGTGCTTATGTATTAGATATAGGCAGGAGATC		
12722	IS	[CG]		AACAAATGGTTATAGTGAA	ctg15972	16
12724	I		A	CAGCCCTCCAGACCCCTTTGTGTAGAGCA		
12724	P	T	A	CGCGCCGAGGTGTGTGCCCAGGGY		
12724	P	C	A	ATGACGTGGCAGACCGTGTGCCCAGGGY		
12724	T	T	A	GAGGCCCTGGGCACACAGCTCTACACAAAGGGGTCTGGAGGGCTGGG		
12724	T	C	A	GAGGCCCTGGGCACACGGCTCTACACAAAGGGGTCTGGAGGGCTGGG		
				CAGAGAGCAGGGCGTGGGACAGCGCTCCCGCCCAGCCCTCCAGACCCCTTTGTGTAGAGC[TC]GTGTGCCCAGGGCCTCGGAGCTGTACAAAGCTTGGT		
12724	IS	[TC]		TCAAAATTTGGCTTGGATACTTAG	ctg15907	6
12737	I		S	GTATCTGCCTTCAGGACTCCTTTGTTTCTCTGGGTTC		
12737	P	C	S	ATGACGTGGCAGACGGACCATTTTCTTAATTTTAAAATCTTY		
12737	P	A	S	CGCGCCGAGGTGACCATTTTCTTAATTTTAAAATCTTAAY		
12737	T	C	S	TAAATTAAGATTTTAAAATTAAGAAAATGGTCCAACCCAGAGAAACAAAGGAGTCCTGAAGGCAGATACTA		
12737	T	A	S	TAAATTAAGATTTTAAAATTAAGAAAATGGTCAAACCCAGAGAAACAAAGGAGTCCTGAAGGCAGATACTA		
				TACAGGGATAGTAGGAGAATAAGAGAAATAAATTAAGATTTTAAAATTAAGAAAATGGTC[CA]AACCCAGAGAAACAAAGGAGTCCTGAAGGCAGATACTACC		
12737	IS	[CA]		CTCAGGGCATCTGTTGATGC	ctg15907	6
12743	I		S	GGATGTCTAATAGCATCTCTGACCTCAGCCCAGTAGATT		
12743	P	T	S	CGCGCCGAGGACCAGTAGCATTCCCCY		
12743	P	C	S	ATGACGTGGCAGACGCCAGTAGCATTCCCY		
12743	T	T	S	ACTGGGGGAATGCTACTGGTATCTACTGGGCTGAGGTCAGAGATGCTATTAGACATCCAA		
12743	T	C	S	ACTGGGGGAATGCTACTGGCATCTACTGGGCTGAGGTCAGAGATGCTATTAGACATCCAA		
				GCAATGTCCAGGGACATTTTTCATTGTCACAAGTTGCGGGGACTGGGGGAATGCTACTGG[TC]ATCTACTGGGCTGAGGTCAGAGATGCTATTAGACATCC		
12743	IS	[TC]		AATAATGCACAAATCAGCCTCA	ctg15907	6
12760	I		A	CTCTAAGTAGGCTGTGCTGGCTTGGCTGGT		
12760	P	A	A	CGCGCCGAGGAACTTCACCTTGAGAGGTY		
12760	P	G	A	ATGACGTGGCAGACGACTTCACCTTGAGAGGTY		
12760	T	A	A	ACCGACCTCTCAAGGTGAAGTTCCAGCCAAGCCAGCACAGCCTACTTAGAGCA		
12760	T	G	A	ACCGACCTCTCAAGGTGAAGTCCCAGCCAAGCCAGCACAGCCTACTTAGAGCA		
				AGGGGAAAGGTCTTAGATAGCAGATTGGTTGCTCTAAGTAGGCTGTGCTGGCTTGGCTGG[AG]ACTTCACCTTGAGAGGTCGGTGAACATCACAGCTGCAT		
12760	IS	[AG]		AGGGAATGCAGGGACAGGCGGA	ctg15907	6
12765	I		A	GCTTCCACTTGTTTCTGCAAGCAGAAAGCCATCT		
12765	P	G	A	ATGACGTGGCAGACGTTATCTACAGTGTGGCTAATY		
12765	P	A	A	CGCGCCGAGGATTATCTACAGTGTGGCTAATCY		
12765	T	G	A	AAGTGATTAGCCACACTGTAGATAACGATGGCTTTCTGCTTGCAGAAACAAGTGGAAGCCG		
12765	T	A	A	AAGTGATTAGCCACACTGTAGATAATGATGGCTTTCTGCTTGCAGAAACAAGTGGAAGCCG		
				ACCATCTCCATGGTAACACAGACACCGGCTTCCACTTGTTTCTGCAAGCAGAAAGCCATC[GA]TTATCTACAGTGTGGCTAATCACTTCCATAAATTCGATCA		
12765	IS	[GA]		AGATCTTGTACAAGACCCTT	ctg15907	6
12786	I		S	GGGCATAAGAATAGCTTCATGGCTCCAAGTCTGATCATTC		
12786	P	C	S	ATGACGTGGCAGACGGTGCATAGGTCAGTATATTGY		
12786	P	A	S	CGCGCCGAGGTGTGCATAGGTCAGTATATTGY		
12786	T	C	S	GTCACAATATACTGACCTATGCACCAATGATCAGACTTGGAGCCATGAAGCTATTCTTATGCCCAA		
12786	T	A	S	GTCACAATATACTGACCTATGCACAAATGATCAGACTTGGAGCCATGAAGCTATTCTTATGCCCAA		
				TTTCTACCACGGGATGAACAGCTTTTAAGGAGATTGGTCACAATATACTGACCTATGCAC[CA]AATGATCAGACTTGGAGCCATGAAGCTATTCTTATGCCCA		
12786	IS	[CA]		AGAAACCTGGTCACATTAGG	ctg13446	1
12798	I		S	AGCTGATCAGACTGTGGTCTAAATACAATGCAGACCAGATTCT		
12798	P	T	S	CGCGCCGAGGAGAGAATGATGGAGACAGTY		
12798	P	C	S	ATGACGTGGCAGACGGAGAATGATGGAGACAGTY		
12798	T	T	S	CTGAACTGTCTCCATCATTCTCTGAATCTGGTCTGCATTGTATTTAGACCACAGTCTGATCAGCTTT		
12798	T	C	S	CTGAACTGTCTCCATCATTCTCCGAATCTGGTCTGCATTGTATTTAGACCACAGTCTGATCAGCTTT		
				TTAAATTCGTTGCTTATGACTTTGTAAGTAATAAGTTGCTGAACTGTCTCCATCATTCTC[TC]GAATCTGGTCTGCATTGTATTTAGACCACAGTCTGATCAGC		
12798	IS	[TC]		TTTCCTTGGGCTGCAAGGG	ctg13446	1
12802	I		A	CCCTTAGTAATATACAGAAGATAGGACTCAAGCTTATTTGGGATA		
12802	P	C	A	ATGACGTGGCAGACCCTGATCAATTCTTTCTGATGY		
12802	P	T	A	CGCGCCGAGGTCTGATCAATTCTTTCTGATGTY		
12802	T	C	A	AACAACATCAGAAAGAATTGATCAGGATCCCAAATAAGCTTGAGTCCTATCTTCTGTATATTACTAAGGGCT		
12802	T	T	A	AACAACATCAGAAAGAATTGATCAGAATCCCAAATAAGCTTGAGTCCTATCTTCTGTATATTACTAAGGGCT		
				TGAGAATAAATAAAAGCCCTTAGTAATATACAGAAGATAGGACTCAAGCTTATTTGGGAT[CT]CTGATCAATTCTTTCTGATGTTGTTGAAAATGACAAAGTTG		
12802	IS	[CT]		GGTGGCTACATGGCTTCAG	ctg13414	X
12813	I		A	GGCTCCTCTACTGGGTTTCTGTCTTTCATTCAATGTAATATTGTTCCT		
12813	P	G	A	ATGACGTGGCAGACGTTTAGCTATTAACAATCAGCTATY		
12813	P	A	A	CGCGCCGAGGATTTAGCTATTAACAATCAGCTATGY		
12813	T	G	A	TGTTCATAGCTGATTGTTAATAGCTAAACGGAACAATATTACATTGAATGAAAGACAGAAACCCAGTAGAGGAGCCCT		
12813	T	A	A	TGTTCATAGCTGATTGTTAATAGCTAAATGGAACAATATTACATTGAATGAAAGACAGAAACCCAGTAGAGGAGCCCT		
				TGATGGGGGCCAGGGCTCCTCTACTGGGTTTCTGTCTTTCATTCAATGTAATATTGTTCC[GA]TTTAGCTATTAACAATCAGCTATGAACAAAGGGTGAAGAA		
12813	IS	[GA]		CACTGACAGTCACAGTAAAG	ctg13414	X
12857	I		A	CCTTCCTGGCTGCTGCCCAAGGAT		
12857	P	C	A	CGCGCCGAGGCCACCAGGCCAGCY		
12857	P	G	A	ATGACGTGGCAGACGCACCAGGCCAGCY		
12857	T	C	A	CGAGGCTGGCCTGGTGGTCCTTGGGCAGCAGCCAGGAAGGCG		
12857	T	G	A	CGAGGCTGGCCTGGTGCTCCTTGGGCAGCAGCCAGGAAGGCG		
				GGTCAGCCGACCCCGCCCTTGCCACTCCCTCTCATCGCCTTCCTGGCTGCTGCCCAAGGA[CG]CACCAGGCCAGCCTCGGGGCTCTCAACCCCTCTTCCC		
12857	IS	[CG]		ACGTGCCTTGGGGCTCAGCCGTG	ctg13414	X
12859	I		A	CCAGTGCAGTTCCACAGCCACCAGGAA		
12859	P	C	A	ATGACGTGGCAGACCGGGCTGCGGGY		
12859	P	T	A	CGCGCCGAGGTGGGCTGCGGGY		
12859	T	C	A	ACCCCCCGCAGCCCGTCCTGGTGGCTGTGGAACTGCACTGGGT		
12859	T	T	A	ACCCCCCGCAGCCCATCCTGGTGGCTGTGGAACTGCACTGGGT		
				TCTCCTAAGCTGCCTTCCACCATCTGCCCGCCACCCAGTGCAGTTCCACAGCCACCAGGA[CT]GGGCTGCGGGGGGTGTCCCGACTGGCTCTGGGGTGCT		
12859	IS	[CT]		GGGGAAAGCACTGTGGGGCGGGC	ctg14493	3
12861	I		S	CTGAAGTGAGGCAGATGCATGAGTGATTGAGAATAATGCTT		
12861	P	T	S	CGCGCCGAGGACCTTGGTGAAGCATTCY		
12861	P	C	S	ATGACGTGGCAGACGCCTTGGTGAAGCATTY		
12861	T	T	S	AATGGAATGCTTCACCAAGGTAGCATTATTCTCAATCACTCATGCATCTGCCTCACTTCAGTA		
12861	T	C	S	AATGGAATGCTTCACCAAGGCAGCATTATTCTCAATCACTCATGCATCTGCCTCACTTCAGTA		

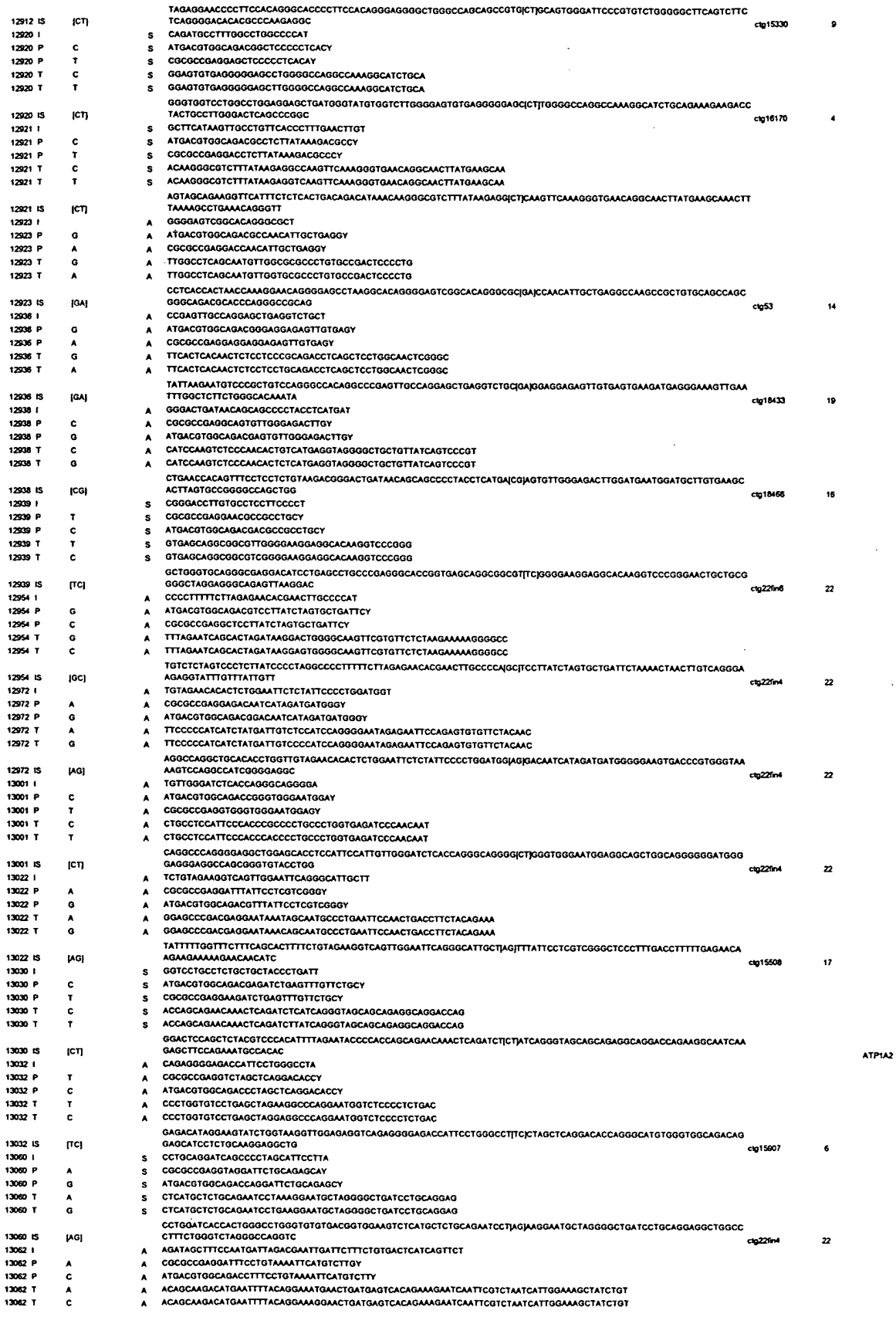
KIAA0015

FIGURE 129E

				GTATCACAGAAGATGGTAGTACCTGAACCTCATGCTTCTAAATGGAATGCTTCACCAAGG[TC]AGCATTATTCTCAATCACTCATGCATCTGCCTCACTTCAG		
12861	IS	[TC]		TACGGAGCAAATATGTATCA	ctg13921	8
12867	I		A	CCTGGGTTCAAGCAATTCTCCTGCCTCAGGA		
12867	P	T	A	CGCGCCGAGGTGCCTGAGCAGTGGY		
12867	P	C	A	ATGACGTGGCAGACCGCCTGAGCAGTGGY		
12867	T	T	A	GTCCCCACTGCTCAGGCACCTGAGGCAGGAGAATTGCTTGAACCCAGGAG		
12867	T	C	A	GTCCCCACTGCTCAGGCGCCTGAGGCAGGAGAATTGCTTGAACCCAGGAG		
				TGCAATCTCAGCTCACTGCAACCTCTGCCTCCTGGGTTCAAGCAATTCTCCTGCCTCAGG[TC]GCCTGAGCAGTGGGGACCACAGGCGTGCACCACCTCAC		
12867	IS	[TC]		CCAGCTAATTTTGTATTTTTAG	ctg15907	6
12872	I		A	GACCTGCTACAGTCAGCAGGACCTGCTT		
12872	P	A	A	CGCGCCGAGGACAGTCAGCAGCACCY		
12872	P	G	A	ATGACGTGGCAGACGCAGTCAGCAGCACY		
12872	T	A	A	GGCAGGTGCTGCTGACTGTAGCAGGTCCTGCTGACTGTAGCAGGTCCT		
12872	T	G	A	GGCAGGTGCTGCTGACTGCAGCAGGTCCTGCTGACTGTAGCAGGTCCT		
				GACATTGGCGGTCTCACTGCTAGCCCCTAGAAGGACCTGCTACAGTCAGCAGGACCTGCT[AG]CAGTCAGCAGCACCTGCCAAGAAGATATTCTTACTCCC		
12872	IS	[AG]		CTTTATGGTGAGGACAACTGTG	ctg15907	6
12878	I		S	CAGCTGCCCACTCCTCTGTGTCCTCTTAGAA		
12878	P	A	S	CGCGCCGAGGTTGTGCTCTGGGTGTY		
12878	P	G	S	ATGACGTGGCAGACCTGTGCTCTGGGTGTY		
12878	T	A	S	ACACACACCCAGAGCACAATCTAAGAGGACACAGAGGAGTGGGCAGCTGGC		
12878	T	G	S	ACACACACCCAGAGCACAGTCTAAGAGGACACAGAGGAGTGGGCAGCTGGC		
				AGTCACCTCCACTCCAGTGAGCTCCTTAATCCAGCAGAGAAGACACACACCCAGAGCACA[AG]TCTAAGAGGACACAGAGGAGTGGGCAGCTGGCTTGGCT		
12878	IS	[AG]		GTTGCACTTGAAGACAGGATCC	ctg15907	6
12887	I		A	GGATTTCCACCTGAGTTTTGGGGGAACATGAGCT		
12887	P	G	A	ATGACGTGGCAGACGTCCAGCCCTCAGCY		
12887	P	A	A	CGCGCCGAGGATCCAGCCCTCAGCY		
12887	T	G	A	AGCTGCTGAGGGCTGGACGCTCATGTTCCCCCAAAACTCAGGTGGAAATCCTC		
12887	T	A	A	AGCTGCTGAGGGCTGGATGCTCATGTTCCCCCAAAACTCAGGTGGAAATCCTC		
				CTCCTAATGCCACTGCTTTGGGGGTGAGGATTTCCACCTGAGTTTTGGGGGAACATGAGC[GA]TCCAGCCCTCAGCAGCTGTTACTGTGACCCGCAAACCT		
12887	IS	[GA]		GCCGCCCCCCTGCTCTTGCCCA	ctg15907	6
12888	I		A	TCTCTTGTCCAGAGCAGGTAGCTGGGACCT		
12888	P	G	A	ATGACGTGGCAGACGGGCATCTGCTCAGY		
12888	P	A	A	CGCGCCGAGGAGGCATCTGCTCAGCY		
12888	T	G	A	GAGGGCTGAGCAGATGCCCGGTCCCAGCTACCTGCTCTGGACAAGAGATG		
12888	T	A	A	GAGGGCTGAGCAGATGCCTGGTCCCAGCTACCTGCTCTGGACAAGAGATG		
				CAGGTCACGAGGCTGTCCCTTCTGTGAGCCATCTCTTGTCCAGAGCAGGTAGCTGGGACC[GA]GGCATCTGCTCAGCCCTCCGGGCTCTCCGTGGTGGGC		
12888	IS	[GA]		AGTCCGCAGCCTGTCCTCCAGGG	ctg15907	6
12891	I		S	CCCAGGCCCTACCCCCAGAACTGGT		
12891	P	T	S	CGCGCCGAGGATCTTGCTGGACCAGGY		
12891	P	C	S	ATGACGTGGCAGACGTCTTGCTGGACCAGGY		
12891	T	T	S	AGATCCTGGTCCAGCAAGATCCAGTTCTGGGGGTAGGGCCTGGGCA		
12891	T	C	S	AGATCCTGGTCCAGCAAGACCCAGTTCTGGGGGTAGGGCCTGGGCA		
				TGTAGGACTCACTTGAGGAGCCTCTAAAAATCCTCATGTCCAGATCCTGGTCCAGCAAGA[TC]CCAGTTCTGGGGGTAGGGCCTGGGCATCAGCATTTTTTA		
12891	IS	[TC]		TCTATAGCTATGTAAAGAACG	ctg14747	2
12894	I		S	CTGAACCCCCCACAGCAGGGGCT		
12894	P	C	S	ATGACGTGGCAGACGGCCAGTCCTGCTY		
12894	P	T	S	CGCGCCGAGGAGCCAGTCCTGCTGY		
12894	T	C	S	CCTGCAGCAGGACTGGCCGCCCCTGCTGTGGGGGGTTCAGAA		
12894	T	T	S	CCTGCAGCAGGACTGGCTGCCCCTGCTGTGGGGGGTTCAGAA		
				TGACCTTGGGCCAGAAGGTCAAACTCCGAAGACTGAAACTCTGCCTGCAGCAGGACTGGC[CT]GCCCCTGCTGTGGGGGGTTCAGAAAATAAAATGCCGC		
12894	IS	[CT]		GCAGCCCTTGCCAGGGAAGTGTC	ctg17042	11
12895	I		S	CCAGACAGCCCTGTTAACACCTGGGCAGA		
12895	P	A	S	CGCGCCGAGGTTCTGTGAAAGGAGAAATGTY		
12895	P	G	S	ATGACGTGGCAGACCTCTGTGAAAGGAGAAATGTY		
12895	T	A	S	CAAGACATTTCTCCTTTCACAGAACTGCCCAGGTGTTAACAGGGCTGTCTGGAC		
12895	T	G	S	CAAGACATTTCTCCTTTCACAGAGCTGCCCAGGTGTTAACAGGGCTGTCTGGAC		
				TGTGGTGGTTTATATTCATGTTTGTGGAAAAATCTTGCAAGACATTTCTCCTTTCACAGA[AG]CTGCCCAGGTGTTAACAGGGCTGTCTGGACGGGGCTCTT		
12895	IS	[AG]		TTGCTTCCCCCTCAATCTGGG	ctg16920	19
12898	I		A	GGGAGGCTGAGGCGGGTGGATCAA		
12898	P	C	A	ATGACGTGGCAGACCGAGGTCAAGAGATCGAY		
12898	P	T	A	CGCGCCGAGGTGAGGTCAAGAGATCGAGY		
12898	T	C	A	TGGTCTCGATCTCTTGACCTCGTGATCCACCCGCCTCAGCCTCCCAA		
12898	T	T	A	TGGTCTCGATCTCTTGACCTCATGATCCACCCGCCTCAGCCTCCCAA		
				TGGGCGCAGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCTGAGGCGGGTGGATCA[CT]GAGGTCAAGAGATCGAGACCATCCTGGTCAACATGGT		
12898	IS	[CT]		GAAACCCCGTCTCTACTAAAAAA	ctg15907	6
12899	I		A	TGGTCAACATGGTGAAACCCCGTCTCTACTAAAAAAAAATACAAAGAAAAAAAC		
12899	P	A	A	CGCGCCGAGGATTAGCTGGGCGTGGY		
12899	P	T	A	ATGACGTGGCAGACTTTAGCTGGGCGTGGY		
12899	T	A	A	GCCACCACGCCCAGCTAATTTTTTTTCTTTGTATTTTTTTTTAGTAGAGACGGGGTTTCACCATGTTGACCAGG		
12899	T	T	A	GCCACCACGCCCAGCTAAATTTTTTTTCTTTGTATTTTTTTTTAGTAGAGACGGGGTTTCACCATGTTGACCAGG		
				ACCATCCTGGTCAACATGGTGAAACCCCGTCTCTACTAAAAAAAAATACAAAGAAAAAAAA[AT]TTAGCTGGGCGTGGTGGCGCATGCCTGTAGTCCCAGCTG		
12899	IS	[AT]		CTGGGGAGGCTGAGGCAGGAG	ctg17036	17
12902	I		S	CCCACGCACAGTGCAGAGGACCCT		
12902	P	C	S	ATGACGTGGCAGACGTAGGTGGCCACAGAY		
12902	P	T	S	CGCGCCGAGGATAGGTGGCCACAGAGY		
12902	T	C	S	AGACCTCTGTGGCCACCTACGGGTCCTCTGCACTGTGCGTGGGGC		
12902	T	T	S	AGACCTCTGTGGCCACCTATGGGTCCTCTGCACTGTGCGTGGGGC		
				ACCTTTGCAGGAGGACAAGCCATGCCGGCCTCAACTAGCGGAGACCTCTGTGGCCACCTA[CT]GGGTCCTCTGCACTGTGCGTGGGGCAGTGGGGACGG		
12902	IS	[CT]		AGCTTCCTGCCCCCCGGGGCCTGC	ctg17036	17
12905	I		A	CCCGGCACCAGTCTCAAGGCCATA		
12905	P	C	A	ATGACGTGGCAGACCGGCTCCGACAGCY		
12905	P	T	A	CGCGCCGAGGTGGCTCCGACAGCY		
12905	T	C	A	TGACGCTGTCGGAGCCGATGGCCTTGAGACTGGTGCCGGGCT		
12905	T	T	A	TGACGCTGTCGGAGCCAATGGCCTTGAGACTGGTGCCGGGCT		
				CTGACGAGGTCTGCCGAGGACGCGTTTCTCTCTGCAGCCCGGCACCAGTCTCAAGGCCAT[CT]GGCTCCGACAGCGTCACCTCCTGGGACCTTCCCTTCA		
12905	IS	[CT]		TGTATGGTCCCAGCGGCATGCGG	ctg15907	6
12908	I		S	CCTGGCCGGTCTCAGAGCGAGACAA		
12908	P	A	S	CGCGCCGAGGTGCTGCTCACCAGCY		
12908	P	G	S	ATGACGTGGCAGACCGCTGCTCACCAGY		
12908	T	A	S	GAGGGCTGGTGAGCAGCATGTCTCGCTCTGAGACCGGCCAGGCT		
12908	T	G	S	GAGGGCTGGTGAGCAGCGTGTCTCGCTCTGAGACCGGCCAGGCT		
				AGGCGCAGGGCCGATTGTCCACTTCTGGCCCCTGAGGTACCGGGAGGGCTGGTGAGCAGC[AG]TGTCTCGCTCTGAGACCGGCCAGGCTGCTGGGGCA		
12908	IS	[AG]		GGCATCTGATGTACAGTAGTTCCCA	ctg13740	5
12912	I		A	GGCTGGGCCAGCAGCCGTGA		
12912	P	C	A	ATGACGTGGCAGACCGCAGTGGGATTCCY		
12912	P	T	A	CGCGCCGAGGTGCAGTGGGATTCCCY		
12912	T	C	A	ACACGGGAATCCCACTGCGCACGGCTGCTGGCCCAGCCCC		
12912	T	T	A	ACACGGGAATCCCACTGCACACGGCTGCTGGCCCAGCCCC		

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FIGURE 129E



Pages 1 to 1 are withheld pursuant to 35 USC 112

FIGURE 129E

				TTTTCACAGATAGCTTTCCAATGATTAGACGAATTGATTCTTTCTGTGACTCATCAGTTC[AC]TTTCCTGTAAAATTCATGTCTTGCTGTTGATTTGTGAATAAG			
13062	IS	[AC]		GTATCGTAAATAAAACAT	ctg15064	7	
13069	I		S	CTTGCTATCCCCTCGGCCATGCTGCT			
13069	P	C	S	ATGACGTGGCAGACGCCCCACCTGTGCAY			
13069	P	T	S	CGCGCCGAGGACCCCACCTGTGCACY			
13069	T	C	S	CTACGTGCACAGGTGGGCGCAGCATGGCCGAGGGGATAGCAAGCT			
13069	T	T	S	CTACGTGCACAGGTGGGTGCAGCATGGCCGAGGGGATAGCAAGCT			
				TGGCGGAGATTGTCATGGCCATAGACTCGGTGCACCGGCTTGGCTACGTGCACAGGTGGG[CT]GCAGCATGGCCGAGGGGATAGCAAGCTTGTTCCCTG			
13069	IS	[CT]		GCCGGGTTCTTGGAAGGTCAGAGC	ctg25099	7	
13070	I		A	CTCAGCATATCTCATCTTCTACAAAAGACTCCAAAGATTTCTCTTTTCACCT			
13070	P	A	A	CGCGCCGAGGAGCTCCCAATTACTGCCY			
13070	P	G	A	ATGACGTGGCAGACGGCTCCCAATTACTGCY			
13070	T	A	A	ATGTGGCAGTAATTGGGAGCTGGTGAAAAGAGAAATCTTTGGAGTCTTTTGTAGAAGATGAGATATGCTGAGCT			
13070	T	G	A	ATGTGGCAGTAATTGGGAGCCGGTGAAAAGAGAAATCTTTGGAGTCTTTTGTAGAAGATGAGATATGCTGAGCT			
				GCACGGCAGCTCAGCATATCTCATCTTCTACAAAAGACTCCAAAGATTTCTCTTTTCACC[AG]GCTCCCAATTACTGCCACATAACACATGCCTTGAAATGTG			
13070	IS	[AG]		ATTGCCTCTGGTTTGTAACT			
13086	I		A	CCAGGGCAACAACCTTGGGTAATTAGAAAAGTCAGAAAAACATACT			
13086	P	A	A	CGCGCCGAGGAAACAAACTCATTTAGACTAGAGAY			
13086	P	G	A	ATGACGTGGCAGACGAACAAACTCATTTAGACTAGAGAY			
13086	T	A	A	AGTGTCTCTAGTCTAAATGAGTTTGTTTGTATGTTTTTCTGACTTTTCTAATTACCCAAGGTTGTTGCCCTGGCC			
13086	T	G	A	AGTGTCTCTAGTCTAAATGAGTTTGTTCGTATGTTTTTCTGACTTTTCTAATTACCCAAGGTTGTTGCCCTGGCC			
				TGAATAAAAGAGAGGCCAGGGCAACAACCTTGGGTAATTAGAAAAGTCAGAAAAACATAC[AG]AACAAACTCATTTAGACTAGAGACACTGTGATTGATCTTG			
13086	IS	[AG]		CTACACTAGACTATTACATT	ctg16170	4	
13093	I		S	AGACACGGCAAGACAATAACTTTGTAATCGAGCTAGTTTTGCT			
13093	P	T	S	CGCGCCGAGGATTCACCAAGCTAAATTGCY			
13093	P	C	S	ATGACGTGGCAGACGTTCACCAAGCTAAATTGCY			
13093	T	T	S	TTCTGCAATTTAGCTTGGTGAATGCAAAACTAGCTCGATTACAAAGTTATTGTCTTGCCGTGTCTTT			
13093	T	C	S	TTCTGCAATTTAGCTTGGTGAACGCAAAACTAGCTCGATTACAAAGTTATTGTCTTGCCGTGTCTTT			
				CTTTGTGGCCTCAGTCATGTAACTTTGAGTTAGCAGTTTTCTGCAATTTAGCTTGGTGAA[TC]GCAAAACTAGCTCGATTACAAAGTTATTGTCTTGCCGTGT			
13093	IS	[TC]		CTTTCCGTGTTGTGAATAAC			
13122	I		A	AGCTGACCAGGTTGTCAGGCTTGTGTTCCA			
13122	P	T	A	CGCGCCGAGGTATGTTACTCTGCATGACTCY			
13122	P	C	A	ATGACGTGGCAGACCATGTTACTCTGCATGACTY			
13122	T	T	A	AGGGGAGTCATGCAGAGTAACATAGGAACACAAGCCTGACAACCTGGTCAGCTTC			
13122	T	C	A	AGGGGAGTCATGCAGAGTAACATGGGAACACAAGCCTGACAACCTGGTCAGCTTC			
				TTGAGAGTTCAAAGGAGCTAGAGTAAGTGGAAGCTGACCAGGTTGTCAGGCTTGTGTTCC[TC]ATGTTACTCTGCATGACTCCCCTTTAAACGTCAGTCTTT			
13122	IS	[TC]		GTTCTGCAATGCCGTCTTGTC	ctg15581	4	
13161	I		S	GCCAAGAGCCCTCTATGCCACAATCCTTTTTTAAAGATTAAATATGAGAA			
13161	P	G	S	ATGACGTGGCAGACCGCTTTTCTTGTTCCTTCAY			
13161	P	A	S	CGCGCCGAGGTGCTTTTCTTGTTCCTTCAY			
13161	T	G	S	GTCATGAAGGAACAAGAAAAGCGTCTCATATTTAATCTTTAAAAAAGGATTGTGGCATAGAGGGCTCTTGGCGG			
13161	T	A	S	GTCATGAAGGAACAAGAAAAGCATCTCATATTTAATCTTTAAAAAAGGATTGTGGCATAGAGGGCTCTTGGCGG			
				TCCGTGTTTGCTGCCCGTGGGTCCCTTGTTTTCTTCAAGTCATGAAGGAACAAGAAAAGC[GA]TCTCATATTTAATCTTTAAAAAAGGATTGTGGCATAGAGG			
13161	IS	[GA]		GCTCTTGGCGGCGTATAAGC	ctg15581	4	
13167	I		S	CGCACACAAAGGCCCCAAGAGCGTATCC			
13167	P	A	S	CGCGCCGAGGTAGCGCCCGAAAATGY			
13167	P	C	S	ATGACGTGGCAGACGAGCGCCCGAAAATGY			
13167	T	A	S	ACCGCATTTTCGGGCGCTAGATACGCTCTTGGGGCCTTTGTGTGCGTT			
13167	T	C	S	ACCGCATTTTCGGGCGCTCGATACGCTCTTGGGGCCTTTGTGTGCGTT			
				AGCGACGGTTCCCTCGTATCTCTGCCTGTGTCCTGCAAGCTCACCGCATTTTCGGGCGCT[AC]GATACGCTCTTGGGGCCTTTGTGTGCGTTCTCTGTCTT			
13167	IS	[AC]		ATTTCCGGGCGACGTGCCGCGT	ctg16170	4	FLJ23544
13185	I		S	AGTTTGCTTACCTTCTCTGACCTGCAGTAGGCATATTCTTAAAAC			
13185	P	A	S	CGCGCCGAGGTGGAGCTATGCAGAGTCY			
13185	P	C	S	ATGACGTGGCAGACGGGAGCTATGCAGAGTY			
13185	T	A	S	AAGGGACTCTGCATAGCTCCATTTTAAGAATATGCCTACTGCAGGTCAGAGAAGGTAAGCAAACTGC			
13185	T	C	S	AAGGGACTCTGCATAGCTCCCTTTTAAGAATATGCCTACTGCAGGTCAGAGAAGGTAAGCAAACTGC			
				TCAAGAGAGGTGAGAAAAAGGAGCCACAGCAGGATGATTCAAGGGACTCTGCATAGCTCC[AC]TTTTAAGAATATGCCTACTGCAGGTCAGAGAAGGTAAG			
13185	IS	[AC]		CAAACTGCCTAAGGCCACACAG	ctg14391	11	
13220	I		A	GCACAACCAGAAGCTGGTGTGGCTTACTCTT			
13220	P	A	A	CGCGCCGAGGATGAGTGTGTCCTGAGCY			
13220	P	G	A	ATGACGTGGCAGACGTGAGTGTGTCCTGAGCY			
13220	T	A	A	AAATGCTCAGGACACACTCATAGAGTAAGCCACACCAGCTTCTGGTTGTGCCT			
13220	T	G	A	AAATGCTCAGGACACACTCACAGAGTAAGCCACACCAGCTTCTGGTTGTGCCT			
				CCAGGCCTCTGATCTAGGTCGGTACAAGAGGCACAACCAGAAGCTGGTGTGGCTTACTCT[AG]TGAGTGTGTCCTGAGCATTTGCTGAATTATGACAAGCA			
13220	IS	[AG]		TTTCTCCAAATGTCCTGTTTGA			
13226	I		A	GCTGGCAGATTGTGTGGAGGTTGCAGTTCTGA			
13226	P	T	A	CGCGCCGAGGTCCTGAGGCTGAAGAAGY			
13226	P	C	A	ATGACGTGGCAGACCCCTGAGGCTGAAGAAY			
13226	T	T	A	GCCCCTTCTTCAGCCTCAGGACAGAACTGCAACCTCCACACAATCTGCCAGCCG			
13226	T	C	A	GCCCCTTCTTCAGCCTCAGGGCAGAACTGCAACCTCCACACAATCTGCCAGCCG			
				CCAGAAGACCGTGTTGTCCCCTGGTGTCGGCTGGCAGATTGTGTGGAGGTTGCAGTTCTG[TC]CCTGAGGCTGAAGAAGGGGCTAAGAGACACAAATGAA			
13226	IS	[TC]		GACCCAGGCCGAGCTCCTGAGGA	ctg16114	X	
13288	I		A	TCCTTACCTTGGAGATCCTAGTCTGATGGAGGAGACAC			
13288	P	G	A	ATGACGTGGCAGACGGTCCCACCTCTGGY			
13288	P	T	A	CGCGCCGAGGTGTCCCACCTCTGGAY			
13288	T	G	A	AATCTCCAGAGGTGGGACCTGTCTCCTCCATCAGACTAGGATCTCCAAGGTAAGGACC			
13288	T	T	A	AATCTCCAGAGGTGGGACATGTCTCCTCCATCAGACTAGGATCTCCAAGGTAAGGACC			
				GATGGGGTGGGCCAGGGAACTGGTCCTTACCTTGGAGATCCTAGTCTGATGGAGGAGACA[GT]GTCCCACCTCTGGAGATTGTCATCTGATGGGAAGATA			
13288	IS	[GT]		GGAACATGGTCTCATGATCTTTG	ctg13446	1	
13298	I		S	GGTCTTGATAGGGTCCCCCGGCCTCT			
13298	P	C	S	ATGACGTGGCAGACGCTCCACTCAGCTCAY			
13298	P	T	S	CGCGCCGAGGACTCCACTCAGCTCATCY			
13298	T	C	S	CTGAGATGAGCTGAGTGGAGCGAGGCCGGGGGACCCTATCAAGACCTT			
13298	T	T	S	CTGAGATGAGCTGAGTGGAGTGAGGCCGGGGGACCCTATCAAGACCTT			
				CCCAGGGCACAGTGGGGACCAGGCATGAGGCACCTGCAGACTGAGATGAGCTGAGTGGAG[CT]GAGGCCGGGGGACCCTATCAAGACCTTTCCCCTCCA			
13298	IS	[CT]		GCTGGAGCCAGACCTGAGCTGTGA	ctg21fin5	21	
13327	I		S	ACACAGGCCTACACAGCAAGGAGGCCA			
13327	P	A	S	CGCGCCGAGGTCCTGTACATGAGACAGGY			
13327	P	G	S	ATGACGTGGCAGACCCCTGTACATGAGACAGGY			
13327	T	A	S	GCTTCCTGTCTCATGTACAGGAGGCCTCCTTGCTGTGTAGGCCTGTGTTC			
13327	T	G	S	GCTTCCTGTCTCATGTACAGGGGCCTCCTTGCTGTGTAGGCCTGTGTTC			
				ATCTTGTTTTTGCGGGTCCATCTGTACATCTTGTGTTTTGCTTCCTGTCTCATGTACAGG[AG]GGCCTCCTTGCTGTGTAGGCCTGTGTTCAATTCTAGGGG			
13327	IS	[AG]		TCAGTTGTCTGGCAGATGGGC	ctg12325	11	
13366	I		A	ACGCGCCAGGGGTGGCCAA			
13366	P	C	A	ATGACGTGGCAGACCGGTGGGCCGTCY			
13366	P	T	A	CGCGCCGAGGTGGTGGGCCGTCY			
13366	T	C	A	GGTGGACGGCCCACCGTGGCCACCCCTGGCGCGTGG			
13366	T	T	A	GGTGGACGGCCCACCATGGCCACCCCTGGCGCGTGG			

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FIGURE 129E

				CATCATCAAGGTCATGGTGAGCCGCGGGCGGGAGCACCGTCCACGCGCCAGGGGTGGCCA[CT]GGTGGGCCGTCCACCCACTCCGGGCCTCACTTTACC		
13366	tS	[CT]		CCTCTGTGAGTGCGGAGGCCGAAG	ctg13740	5
13371	I		S	CCTTGGCCCAGCCCAGCCCAT		
13371	P	C	S	ATGACGTGGCAGACGCCCACTCCCTGCY		
13371	P	T	S	CGCGCCGAGGACCCACTCCCTGCTY		
13371	T	C	S	GGCCAGCAGGGAGTGGGCTGGGCTGGGCTGGGCCAAGGTA		
13371	T	T	S	GGCCAGCAGGGAGTGGGTTGGGCTGGGCTGGGCCAAGGTA		
				TGGGTGAGATCGTGACCACCATTCCCACCATAGGTGAGGTGGGGGCCAGCAGGGAGTGGG[CT]TGGGCTGGGCTGGGCCAAGGTACAAGGCCTCACCCT		
13371	tS	[CT]		GCATCCCGCACCCAGGCTTCAACG	ctg14708	2
13397	I		A	TTCAGTGGGTTCTCTTGGGCTCTAGGTCCTGT		
13397	P	C	A	CGCGCCGAGGCAGAATGTTGTGAGGGGY		
13397	P	G	A	ATGACGTGGCAGACGAGAATGTTGTGAGGGGY		
13397	T	C	A	TAAACCCCTCACAACATTCTGCAGGACCTAGAGCCCAAGAGAACCCACTGAAGA		
13397	T	G	A	TAAACCCCTCACAACATTCTCCAGGACCTAGAGCCCAAGAGAACCCACTGAAGA		
				TGCCTCCGCCATCCCACAGATGATGGATCTTCAGTGGGTTCTCTTGGGCTCTAGGTCCTG[CG]AGAATGTTGTGAGGGGTTTATTTTTTTTTAATAGTGTTC		
13397	tS	[CG]		ATAAAGAAATACATAGTATTC	ctg15665	20
13405	I		S	AGCAAGTCATCCAGCCTCTCTGGATCTCAGTGA		
13405	P	A	S	CGCGCCGAGGTTAATCTTCATTGATGAATAGTGACY		
13405	P	G	S	ATGACGTGGCAGACCTAATCTTCATTGATGAATAGTGACY		
13405	T	A	S	TGCCGTCACTATTCATCAATGAAGATTAACACTGAGATCCAGAGAGGCTGGATGACTTGCTCA		
13405	T	G	S	TGCCGTCACTATTCATCAATGAAGATTAGCACTGAGATCCAGAGAGGCTGGATGACTTGCTCA		
				TGCCTTGGGGAAATGTGGAGAACATTCAATCTTGCCGTCACTATTCATCAATGAAGATTA[AG]CACTGAGATCCAGAGAGGCTGGATGACTTGCTCAAGTTC		
13405	tS	[AG]		ACCAGCATGGTAGTGGCAAAG		
13416	I		S	CTGCGCCTCCCGCTCCCCATCA		
13416	P	G	S	ATGACGTGGCAGACCCTGGCTGGTATCCCY		
13416	P	A	S	CGCGCCGAGGTCTGGCTGGTATCCCY		
13416	T	G	S	AACCGGGGATACCAGCCAGGGATGGGGAGCGGGAGGCGCAGGG		
13416	T	A	S	AACCGGGATACCAGCCAGAGATGGGGAGCGGGAGGCGCAGGG		
				AGTGGCTCATTCTTTCTGTTGCACCACGGACCGTCATTCTGTAACCGGGATACCAGCCAG[GA]GATGGGGAGCGGGAGGCGCAGGGCAGGGGCGTCCCT		
13416	tS	[GA]		CCTCTCAGCACAGCCTCCCCGCGC	ctg16339	X
13419	I		A	ACAAATAGGGAATCACGGTGTGAAGCCCAGGAT		
13419	P	G	A	ATGACGTGGCAGACGCCTTCTTTGGCTTCCY		
13419	P	A	A	CGCGCCGAGGACCTTCTTTGGCTTCCTY		
13419	T	G	A	TCACAGGAAGCCAAAGAAGGCTCCTGGGCTTCACACCGTGATTCCCTATTTGTGT		
13419	T	A	A	TCACAGGAAGCCAAAGAAGGTTCCTGGGCTTCACACCGTGATTCCCTATTTGTGT		
				ACTTCTTCTTGTTTAGATGATGAAGGACACAAATAGGGAATCACGGTGTGAAGCCCAGGA[GA]CCTTCTTTGGCTTCCTGTGACTGCCACGGACTTGGAATC		
13419	tS	[GA]		ATGTGGTCCCCGAATTAACTT	ctg17403	17
13420	I		A	AGCCTTCTTTGGCTTCCTGTGACTGCCAA		
13420	P	C	A	ATGACGTGGCAGACCGGACTTGGAATCATGTGY		
13420	P	T	A	CGCGCCGAGGTGGACTTGGAATCATGTGY		
13420	T	C	A	GGACCACATGATTCCAAGTCCGTGGCAGTCACAGGAAGCCAAAGAAGGCTCC		
13420	T	T	A	GGACCACATGATTCCAAGTCCATGGCAGTCACAGGAAGCCAAAGAAGGCTCC		
				CACAAATAGGGAATCACGGTGTGAAGCCCAGGAGCCTTCTTTGGCTTCCTGTGACTGCCA[CT]GGACTTGGAATCATGTGGTCCCCGAATTAACTTTCCATA		
13420	tS	[CT]		GTATTCTGAACTATGAACTGG	ctg22fin3	22
13432	I		S	TGCTGATTTCTCCCACAACTCAATAGTTTCCTGAATTAAAATAACAGCTTCA		
13432	P	G	S	ATGACGTGGCAGACCGACACTTACCTTTGGAAGY		
13432	P	A	S	CGCGCCGAGGTGACACTTACCTTTGGAAGY		
13432	T	G	S	CGTCCTTCCAAAGGTAAGTGTCGGAAGCTGTTATTTTAATTCAGGAAACTATTGAGTTGTGGGAGAAATCAGCAAA		
13432	T	A	S	CGTCCTTCCAAAGGTAAGTGTCAGAAGCTGTTATTTTAATTCAGGAAACTATTGAGTTGTGGGAGAAATCAGCAAA		
				GGCTCGAAAATGAGACGCTTTTCTGCTTGGATCAGCCCCGTCCTTCCAAAGGTAAGTGTC[GA]GAAGCTGTTATTTTAATTCAGGAAACTATTGAGTTGTGG		
13432	tS	[GA]		GAGAAATCAGCAAAGGCAAGG	ctg15907	6
13473	I		A	AGGAGATGGGCCCTGCAAGCCTCTTC		
13473	P	G	A	ATGACGTGGCAGACGCTTAGCCGTCTGTTCY		
13473	P	T	A	CGCGCCGAGGTCTTAGCCGTCTGTTCAY		
13473	T	G	A	TTTCTGAACAGACGGCTAAGCAAGAGGCTTGCAGGGCCCATCTCCTCA		
13473	T	T	A	TTTCTGAACAGACGGCTAAGAAAGAGGCTTGCAGGGCCCATCTCCTCA		
				ACCTGTACTGAGCTCCGTGAGGATAAATAACTCTGAGGAGATGGGCCCTGCAAGCCTCTT[GT]CTTAGCCGTCTGTTCAGAAAATAGCGTTTTCGAAATGCC		
13473	tS	[GT]		CTGAGTTGACCTAATGTCTTA	ctg17042	11
13513	I		S	CACACCTCAGGATGGAGACACTGGGGCA		
13513	P	G	S	ATGACGTGGCAGACCCTGGGCACCAGGY		
13513	P	A	S	CGCGCCGAGGTCTGGGCACCAGGY		
13513	T	G	S	CCTCCCTGGTGCCCAGGGCCCCAGTGTCTCCATCCTGAGGTGTGGC		
13513	T	A	S	CCTCCCTGGTGCCCAGAGCCCCAGTGTCTCCATCCTGAGGTGTGGC		
				TCCCCTGCTGCCCCACCCTAAGGCCCTGCCTCCTCCACTGCTCTCCTCCCTGGTGCCCAG[GA]GCCCCAGTGTCTCCATCCTGAGGTGTGGCTGAGGAAG		
13513	tS	[GA]		GAAGTAGGTATGTGGCACAGAGA	ctg14932	16
13577	I		A	GGGGGTCAGAAGGTCAACAGAACAGGCTAGAT		
13577	P	A	A	CGCGCCGAGGAGCTTCCAGAACTGACTAY		
13577	P	G	A	ATGACGTGGCAGACGGCTTCCAGAACTGACTY		
13577	T	A	A	TGATTAGTCAGTTCTGGAAGCTTCTAGCCTGTTCTGTTGACCTTCTGACCCCCTG		
13577	T	G	A	TGATTAGTCAGTTCTGGAAGCCTCTAGCCTGTTCTGTTGACCTTCTGACCCCCTG		
				GGTGAGCACCATCCGGACTCTAGAAGCCAGGGGGTCAGAAGGTCAACAGAACAGGCTAGA[AG]GCTTCCAGAACTGACTAATCATGGTTCCCATAAGCCAT		
13577	tS	[AG]		TTTCTAACACAGTAGAGATATT	ctg13657	1
13607	I		A	TGCAGATGTTTACAGCTCAGCTGCATAATTCTCTCCCA		
13607	P	C	A	ATGACGTGGCAGACCTCTGAAGCCTCCCTGY		
13607	P	T	A	CGCGCCGAGGTTCTGAAGCCTCCCTGY		
13607	T	C	A	CTGACAGGGAGGCTTCAGAGGGGAGAGAATTATGCAGCTGAGCTGTAAACATCTGCAAT		
13607	T	T	A	CTGACAGGGAGGCTTCAGAAGGGAGAGAATTATGCAGCTGAGCTGTAAACATCTGCAAT		
				GATCCCAGGAGGAATCAGAGAATTGCAGATGTTTACAGCTCAGCTGCATAATTCTCTCCC[CT]TCTGAAGCCTCCCTGTCAGGTGGGCATCCAGCCTCCTGA		
13607	tS	[CT]		TGAATACCTCAAGAGACGGGG	ctg16105	5
13611	I		A	TGTGTAAACATAGGCAGGCCACTTAGCCTCTCACA		
13611	P	C	A	ATGACGTGGCAGACCTCCTCAGTTTCCACCCY		
13611	P	T	A	CGCGCCGAGGTTCCTCAGTTTCCACCCY		
13611	T	C	A	ACAAGGGTGGAAACTGAGGAGGTGAGAGGCTAAGTGGCCTGCCTATGTTTACACAGC		
13611	T	T	A	ACAAGGGTGGAAACTGAGGAAGTGAGAGGCTAAGTGGCCTGCCTATGTTTACACAGC		
				TGGGTTTGAATCTGCCGCTAACTGGCTGTGTAAACATAGGCAGGCCACTTAGCCTCTCAC[CT]TCCTCAGTTTCCACCCTTGTAAAGTGGAATGCTAATGCT		
13611	tS	[CT]		GCACCTTGAAGAGCTGTTATC	ctg15422	X
13618	I		S	TGAGATACAAGTCATCAGGAAGCTGAAAAACAGGAAAAAGCCT		
13618	P	C	S	ATGACGTGGCAGACGACCAAGTTCAAACTCCTGY		
13618	P	T	S	CGCGCCGAGGAACCAAGTTCAAACTCCTGY		
13618	T	C	S	GAAACAGGAGTTTGAACTTGGTCGGCTTTTTCCTGTTTTTCAGCTTCCTGATGACTTGTATCTCACT		
13618	T	T	S	GAAACAGGAGTTTGAACTTGGTTGGCTTTTTCCTGTTTTTCAGCTTCCTGATGACTTGTATCTCACT		
				AGGTGCCTTCTAAGGGCTTTAGCTGAAATTCTTCTGGTGAAACAGGAGTTTGAACTTGGT[CT]GGCTTTTTCCTGTTTTTCAGCTTCCTGATGACTTGTATCT		
13618	tS	[CT]		CACTTCGAAATCTGATATTA	ctg22fin4	22
13619	I		A	AGAAATTGGCAAACGCTACACGTCAAGCACCAT		
13619	P	G	A	ATGACGTGGCAGACGAGACCAGAGCCGTTY		
13619	P	C	A	CGCGCCGAGGCAGACCAGAGCCGTTY		
13619	T	G	A	TAACAACGGCTCTGGTCTCTGGTGCTTGACGTGTAGCGTTTGCCAATTTCTGT		
13619	T	C	A	TAACAACGGCTCTGGTCTGTGGTGCTTGACGTGTAGCGTTTGCCAATTTCTGT		

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FIGURE 129E

				TAGACCACGACAGAAATGTTTACACCACAGAAATTGGCAAACGCTACACGTCAAGCACCA[GC]AGACCAGAGCCGTTGTTATTTTTTTATTTAATTCAATGTA			
13619	IS	[GC]		TATGTAGAAAACATGCTCTCA	ctg3461	17	
13625	I		A	GGGCCAACCACCTAGACACACCCCGT			
13625	P	C	A	ATGACGTGGCAGACCTCACCTGGCGTCCY			
13625	P	A	A	CGCGCCGAGGATCACCTGGCGTCCY			
13625	T	C	A	ACAAGGACGCCAGGTGAGCGGGGTGTGTCTAGGTGGTTGGCCCCT			
13625	T	A	A	ACAAGGACGCCAGGTGATCGGGGTGTGTCTAGGTGGTTGGCCCCT			
				AATCCAGTGAGGGCACCAGCAGCCGGGAAGAGGAGGGGCCAACCACCTAGACACACCCCG[CA]TCACCTGGCGTCCTTGTTCCAATGGGAAGGTGGCTGA			
13625	IS	[CA]		GTTGGTTCGCTTCCTGCTGCACA	ctg19247	7	
13627	I		S	CAACTTCTCAATTCCACTGTTATTGGATAAAAGAACCTATAGACAATATGT			
13627	P	T	S	CGCGCCGAGGAAAACGAATGGGTGTGGY			
13627	P	C	S	ATGACGTGGCAGACGAAACGAATGGGTGTGGY			
13627	T	T	S	ACAGCCACACCCATTCGTTTTCATATTGTCTATAGGTTCTTTTATCCAATAACAGTGGAATTGAGAAGTTGTG			
13627	T	C	S	ACAGCCACACCCATTCGTTTCCATATTGTCTATAGGTTCTTTTATCCAATAACAGTGGAATTGAGAAGTTGTG			
				AGGCCAAATCCAAACCTTTTTCATAAAGTTTTATTGGACCACAGCCACACCCATTCGTTT[TC]CATATTGTCTATAGGTTCTTTTATCCAATAACAGTGGAATT			
13627	IS	[TC]		GAGAAGTTGTGACAAATAA	MULTIPLE	18	
13668	I		A	GGGCACCCCCTTAACCGCTCCTCA			
13668	P	C	A	ATGACGTGGCAGACCGACCTCCAGCAGAGY			
13668	P	T	A	CGCGCCGAGGTGACCTCCAGCAGAGY			
13668	T	C	A	TGGGCTCTGCTGGAGGTCGGAGGAGCGGTTAAGGGGGTGCCCCA			
13668	T	T	A	TGGGCTCTGCTGGAGGTCAGAGGAGCGGTTAAGGGGGTGCCCCA			
				CGTTTCTCTTTCTTCTCCCTTTGCCCCCGGGGAAATGGGGCACCCCCTTAACCGCTCCTC[CT]GACCTCCAGCAGAGCCCACTGGGGACAGCCTCAGCCTG			
13668	IS	[CT]		GCCCTCTTTGCATTGCACTTTT	ctg3454	17	
13669	I		S	TGTATGAGCCAGAGAAGCCCCAAAGACAGAACAA			
13669	P	A	S	CGCGCCGAGGTAGCAACCTCCCTGTCY			
13669	P	G	S	ATGACGTGGCAGACCAGCAACCTCCCTGTY			
13669	T	A	S	GTAGGACAGGGAGGTTGCTATGTTCTGTCTTTGGGGCTTCTCTGGCTCATACAGC			
13669	T	G	S	GTAGGACAGGGAGGTTGCTGTGTTCTGTCTTTGGGGCTTCTCTGGCTCATACAGC			
				CAGCCCTCTTTGCTGCTGGGTGCGTGTCTGGGCAGGTCTGGGTAGGACAGGGAGGTTGCT[AG]TGTTCTGTCTTTGGGGCTTCTCTGGCTCATACAGCCT			
13668	IS	[AG]		CTGGCCTCCTCAGTGACCACCAG	ctg832	11	
13673	I		A	GCCTGGACCTCGGTTTCCTCACCTGTATAGTAGAC			
13673	P	G	A	ATGACGTGGCAGACGATATGGGAGCACCCAY			
13673	P	T	A	CGCGCCGAGGTATATGGGAGCACCCAGY			
13673	T	G	A	TGCGCTGGGTGCTCCCATATCTCTACTATACAGGTGAGGAAACCGAGGTCCAGGCTG			
13673	T	T	A	TGCGCTGGGTGCTCCCATATATCTACTATACAGGTGAGGAAACCGAGGTCCAGGCTG			
				GCTGGGTACTTTGAGTGGCTCCTTCAGCCTGGACCTCGGTTTCCTCACCTGTATAGTAGA[GT]ATATGGGAGCACCCAGCGCAGGATCACTGCCCACCTCA			
13673	IS	[GT]		GTCACACTGTGAACATAAATCA	ctg22fin3	22	
13674	I		S	GCTCGATGGCACGGCGCACTTTCTA			
13674	P	A	S	CGCGCCGAGGTCGCAGTTTCCTCAAATTY			
13674	P	G	S	ATGACGTGGCAGACCCGCAGTTTCCTCAAATY			
13674	T	A	S	AAAGAATTTGAGGAAACTGCGAGAAAGTGCGCCGTGCCATCGAGCAG			
13674	T	G	S	AAAGAATTTGAGGAAACTGCGGAGAAAGTGCGCCGTGCCATCGAGCAG			
				ATTCTTTATTTCCAGGCAAAGGAAACCAACAATAAGAAGAAAGAATTTGAGGAAACTGCG[AG]AGAAAGTGCGCCGTGCCATCGAGCAGCTGGCTGCCATG			
13674	IS	[AG]		GATTGAGGCCTCTGGCCGGAGC	ctg15907	6	
13692	I		A	AGAAGGTTAGATTGGCCCCATGGATTCCTTTCACAA			
13692	P	C	A	ATGACGTGGCAGACCTGACATCTGAAACACACTY			
13692	P	T	A	CGCGCCGAGGTTGACATCTGAAACACACTGY			
13692	T	C	A	TCAGCAGTGTGTTTCAGATGTCAGTGTGAAAGGAATCCATGGGGCCAATCTAACCTTCTAG			
13692	T	T	A	TCAGCAGTGTGTTTCAGATGTCAATGTGAAAGGAATCCATGGGGCCAATCTAACCTTCTAG			
				TGGTTTTCAGGATTACTCTAATACTAGAAGGTTAGATTGGCCCCATGGATTCCTTTCACA[CT]TGACATCTGAAACACACTGCTGACTCCTAACCTGGGTTGG			
13692	IS	[CT]		ACTCATGCTGCTGGCCTGGA	ctg15907	6	
13696	I		A	GGACAACTCGGAGAGCAGCGAGGAGTCT			
13696	P	A	A	CGCGCCGAGGATCGGACAGTGCGGY			
13696	P	G	A	ATGACGTGGCAGACGTCGGACAGTGCGGY			
13696	T	A	A	CTGTCCGCACTGTCCGATGACTCCTCGCTGCTCTCCGAGTTGTCCAT			
13696	T	G	A	CTGTCCGCACTGTCCGACGACTCCTCGCTGCTCTCCGAGTTGTCCAT			
				TGTAGCCGTCCAGGTCAAGGCTGAAAAGCCCATGGACAACTCGGAGAGCAGCGAGGAGTC[AG]TCGGACAGTGCGGACAGTGAGGAGGCACCAGCAGCC			
13696	IS	[AG]		ATGACTGCAGCTCAGGTGAGGCCT	ctg12325	11	
13700	I		A	CCCGGGATCGTAGTCAGAGCCCACCA			
13700	P	C	A	ATGACGTGGCAGACCTGTGGTCTGTGCAAGY			
13700	P	T	A	CGCGCCGAGGTTGTGGTCTGTGCAAGY			
13700	T	C	A	CTGACTTGCACAGACCACAGGGTGGGCTCTGACTACGATCCCGGGGT			
13700	T	T	A	CTGACTTGCACAGACCACAAGGTGGGCTCTGACTACGATCCCGGGGT			
				CTGGGGCTAGCAGAGGCACTTGCAGCACAGAGAACCCCGGGATCGTAGTCAGAGCCCACC[CT]TGTGGTCTGTGCAAGTCAGACAAAATGAAGATGGGTT			
13700	IS	[CT]		AATTCACCTTTTCTTTTCTTTTC	ctg12325	11	
13702	I		A	CGGCTGCCGAGGGCGGTGGT			
13702	P	A	A	CGCGCCGAGGATTTGGGCCTGGTGTY			
13702	P	G	A	ATGACGTGGCAGACGTTTGGGCCTGGTGY			
13702	T	A	A	TAACACACCAGGCCCAAATCCACCGCCCTCGGCAGCCGCC			
13702	T	G	A	TAACACACCAGGCCCAAACCCACCGCCCTCGGCAGCCGCC			
				GTAGAGGTTGGGAAGTCTGCCGAGGAAGGGCCCGCGTGGGGCGGCTGCCGAGGGCGGTGG[AG]TTTGGGCCTGGTGTGTTACTCTGCAGACAAGGCCT			
13702	IS	[AG]		CGGTTATGATCACGACCGGATGGCG	ctg14583	1	
13704	I		S	GGGGGCCAGAGGTATCCGGCTGGTATTAT			
13704	P	T	S	CGCGCCGAGGAGTCCAGGGCTACCY			
13704	P	C	S	ATGACGTGGCAGACGGTCCAGGGCTACCY			
13704	T	T	S	AAAGGGTAGCCCTGGACTTAATACCAGCCGGATACCTCTGGCCCCCAC			
13704	T	C	S	AAAGGGTAGCCCTGGACCTAATACCAGCCGGATACCTCTGGCCCCCAC			
				GTTCACGTTAACATATAGACACTGTTGGAAGCAGTTCCTTCTAAAAGGGTAGCCCTGGAC[TC]TAATACCAGCCGGATACCTCTGGCCCCCACCCCATTACT			
13704	IS	[TC]		GTACCTCTGGAGTCACTACTG	ctg14583	1	COX10
13707	I		A	GCAAACTGACCAGCTCAGGTACCCAGTCAGAA			
13707	P	T	A	CGCGCCGAGGTGATTCCACCCGCAAY			
13707	P	C	A	ATGACGTGGCAGACCGATTCCACCCGCAY			
13707	T	T	A	GCATTTGCGGGTGGAATCATCTGACTGGGTACCTGAGCTGGTCAGTTTGCAG			
13707	T	C	A	GCATTTGCGGGTGGAATCGTCTGACTGGGTACCTGAGCTGGTCAGTTTGCAG			
				CGCCGAGTTCTGGGAAGAGAATTTTAACTGCAAACTGACCAGCTCAGGTACCCAGTCAGA[TC]GATTCCACCCGCAAATGCACAGGTGAGAGCTGCCCAGG			
13707	IS	[TC]		GTGGTGAGGGTGGTGAGGGTGG	ctg16401	17	
13709	I		S	CTCTGGCCTGCTCGGGGTCCACA			
13709	P	A	S	CGCGCCGAGGTGTCCGCTGTTCCTCY			
13709	P	G	S	ATGACGTGGCAGACCGTCCGCTGTTCCTY			
13709	T	A	S	CTATGAGGAACAGCGGACAGTGGACCCCGAGCAGGCCAGAGGG			
13709	T	G	S	CTATGAGGAACAGCGGACGGTGGACCCCGAGCAGGCCAGAGGG			
				GATAGCATGGCTGGGGGCCCGGCCCCCACACAGCGTGATTGACTATGAGGAACAGCGGAC[AG]GTGGACCCCGAGCAGGCCAGAGGGGTGCTCAAGTGC			
13709	IS	[AG]		GACATGTCGGATCTGTCTCTCATC	ctg17450	X	GRM6
13712	I		A	TGAACTAACTGAATGAGAACTCACTTTTCACTAAGGGGATGGTGT			
13712	P	C	A	ATGACGTGGCAGACCTAGCTGTTCATGAGGGAY			
13712	P	A	A	CGCGCCGAGGATAGCTGTTCATGAGGGAY			
13712	T	C	A	GGGATCCCTCATGAACAGCTAGCACCATCCCCTTAGTGAAAAGTGAGTTCTCATTCAGTTAGTTCACA			
13712	T	A	A	GGGATCCCTCATGAACAGCTATCACCATCCCCTTAGTGAAAAGTGAGTTCTCATTCAGTTAGTTCACA			

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FIGURE 129E

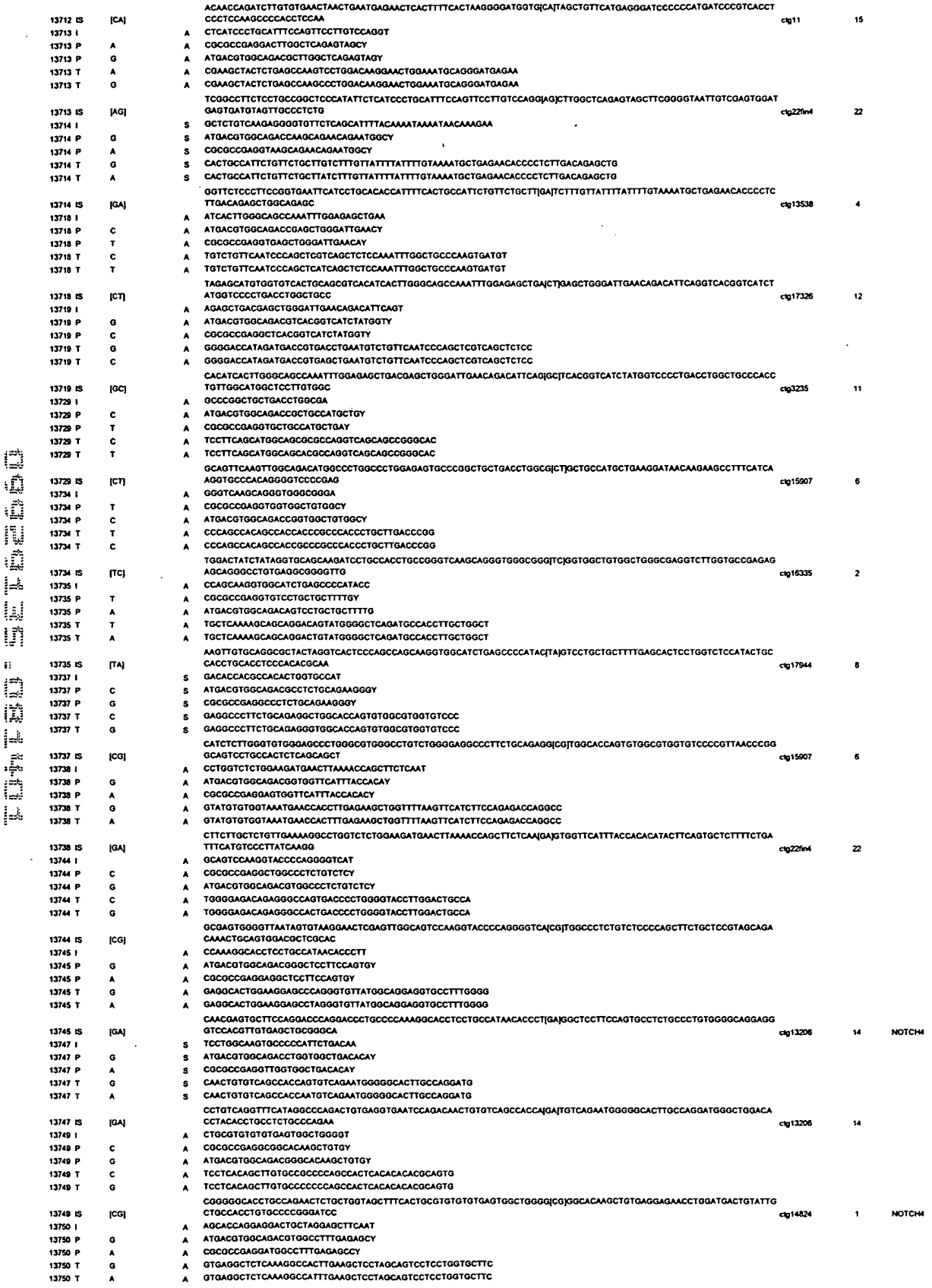

ACAACCAGATCTTGTGTGAACTAACTGAATGAGAACTCACTTTTCACTAAGGGGATGGTG[CA]TAGCTGTTCATGAGGGATCCCCCCATGATCCCGTCACCT
13712 IS [CA] CCCTCCAAGCCCCACCTCCAA ctg11 15
13713 I A CTCATCCCTGCATTTCCAGTTCCTTGTCCAGGT
13713 P A A CGCGCCGAGGACTTGGCTCAGAGTAGCY
13713 P G A ATGACGTGGCAGACGCTTGGCTCAGAGTAGY
13713 T A A CGAAGCTACTCTGAGCCAAGTCCTGGACAAGGAACTGGAAATGCAGGGATGAGAA
13713 T G A CGAAGCTACTCTGAGCCAAGCCCTGGACAAGGAACTGGAAATGCAGGGATGAGAA
TCGGCCTTCTCCTGCCGGCTCCCATATTCTCATCCCTGCATTTCCAGTTCCTTGTCCAGG[AG]CTTGGCTCAGAGTAGCTTCGGGGTAATTGTCGAGTGGAT
13713 IS [AG] GAGTGATGTAGTTGCCCTCTG ctg22fin4 22
13714 I S GCTCTGTCAAGAGGGGTGTTCTCAGCATTTTACAAAATAAAATAACAAAGAA
13714 P G S ATGACGTGGCAGACCAAGCAGAACAGAATGGCY
13714 P A S CGCGCCGAGGTAAGCAGAACAGAATGGCY
13714 T G S CACTGCCATTCTGTTCTGCTTGTCTTTGTTATTTTATTTTGTAAAATGCTGAGAACACCCCTCTTGACAGAGCTG
13714 T A S CACTGCCATTCTGTTCTGCTTATCTTTGTTATTTTATTTTGTAAAATGCTGAGAACACCCCTCTTGACAGAGCTG
GGTTCTCCCTTCCGGTGAATTCATCCTGCACACCATTTTCACTGCCATTCTGTTCTGCTT[GA]TCTTTGTTATTTTATTTTGTAAAATGCTGAGAACACCCCTC
13714 IS [GA] TTGACAGAGCTGGCAGAGC ctg13538 4
13718 I A ATCACTTGGGCAGCCAAATTTGGAGAGCTGAA
13718 P C A ATGACGTGGCAGACCGAGCTGGGATTGAACY
13718 P T A CGCGCCGAGGTGAGCTGGGATTGAACAY
13718 T C A TGTCTGTTCAATCCCAGCTCGTCAGCTCTCCAAATTTGGCTGCCCAAGTGATGT
13718 T T A TGTCTGTTCAATCCCAGCTCATCAGCTCTCCAAATTTGGCTGCCCAAGTGATGT
TAGAGCATGTGGTGTCACTGCAGCGTCACATCACTTGGGCAGCCAAATTTGGAGAGCTGA[CT]GAGCTGGGATTGAACAGACATTCAGGTCACGGTCATCT
13718 IS [CT] ATGGTCCCCTGACCTGGCTGCC ctg17326 12
13719 I A AGAGCTGACGAGCTGGGATTGAACAGACATTCAGT
13719 P G A ATGACGTGGCAGACGTCACGGTCATCTATGGTY
13719 P C A CGCGCCGAGGCTCACGGTCATCTATGGTY
13719 T G A GGGGACCATAGATGACCGTGACCTGAATGTCTGTTCAATCCCAGCTCGTCAGCTCTCC
13719 T C A GGGGACCATAGATGACCGTGAGCTGAATGTCTGTTCAATCCCAGCTCGTCAGCTCTCC
CACATCACTTGGGCAGCCAAATTTGGAGAGCTGACGAGCTGGGATTGAACAGACATTCAG[GC]TCACGGTCATCTATGGTCCCCTGACCTGGCTGCCCACC
13719 IS [GC] TGTTGGCATGGCTCCTTGTGGC ctg3235 11
13729 I A GCCCGGCTGCTGACCTGGCGA
13729 P C A ATGACGTGGCAGACCGCTGCCATGCTGY
13729 P T A CGCGCCGAGGTGCTGCCATGCTGAY
13729 T C A TCCTTCAGCATGGCAGCGCGCCAGGTCAGCAGCCGGGCAC
13729 T T A TCCTTCAGCATGGCAGCACGCCAGGTCAGCAGCCGGGCAC
GCAGTTCAAGTTGGCAGACATGGCCCTGGCCCTGGAGAGTGCCCGGCTGCTGACCTGGCG[CT]GCTGCCATGCTGAAGGATAACAAGAAGCCTTTCATCA
13729 IS [CT] AGGTGCCCACAGGGGTCCCCGAG ctg15907 6
13734 I A GGGTCAAGCAGGGTGGGCGGGA
13734 P T A CGCGCCGAGGTGGTGGCTGTGGCY
13734 P C A ATGACGTGGCAGACCGGTGGCTGTGGCY
13734 T T A CCCAGCCACAGCCACCACCCGCCCACCCTGCTTGACCCGG
13734 T C A CCCAGCCACAGCCACCGCCCGCCCACCCTGCTTGACCCGG
TGGACTATCTATAGGTGCAGCAAGATCCTGCCACCTGCCGGGTCAAGCAGGGTGGGCGGG[TC]GGTGGCTGTGGCTGGGCGAGGTCTTGGTGCCGAGAG
13734 IS [TC] AGCAGGGCCTGTGAGGCGGGGTTG ctg16335 2
13735 I A CCAGCAAGGTGGCATCTGAGCCCCATACC
13735 P T A CGCGCCGAGGTGTCCTGCTGCTTTTGY
13735 P A A ATGACGTGGCAGACAGTCCTGCTGCTTTTG
13735 T T A TGCTCAAAAGCAGCAGGACAGTATGGGGCTCAGATGCCACCTTGCTGGCT
13735 T A A TGCTCAAAAGCAGCAGGACTGTATGGGGCTCAGATGCCACCTTGCTGGCT
AAGTTGTGCAGGCGCTACTAGGTCACTCCCAGCCAGCAAGGTGGCATCTGAGCCCCATAC[TA]GTCCTGCTGCTTTTGAGCACTCCTGGTCTCCATACTGC
13735 IS [TA] CACCTGCACCTCCCACACGCAA ctg17944 8
13737 I S GACACCACGCCACACTGGTGCCAT
13737 P C S ATGACGTGGCAGACGCCTCTGCAGAAGGGY
13737 P G S CGCGCCGAGGCCCTCTGCAGAAGGGY
13737 T C S GAGGCCCTTCTGCAGAGGCTGGCACCAGTGTGGCGTGGTGTCCC
13737 T G S GAGGCCCTTCTGCAGAGGGTGGCACCAGTGTGGCGTGGTGTCC
CATCTCTTGGGTGTGGGAGCCCTGGGCGTGGGCCTGTCTGGGGAGGCCCTTCTGCAGAGG[CG]TGGCACCAGTGTGGCGTGGTGTCCCCGTTAACCCGG
13737 IS [CG] GCAGTCCTGCCACTCTCAGCAGCT ctg15907 6
13738 I A CCTGGTCTCTGGAAGATGAACTTAAAACCAGCTTCTCAAT
13738 P G A ATGACGTGGCAGACGGTGGTTCATTTACCACAY
13738 P A A CGCGCCGAGGAGTGGTTCATTTACCACACY
13738 T G A GTATGTGTGGTAAATGAACCACCTTGAGAAGCTGGTTTTAAGTTCATCTTCCAGAGACCAGGCC
13738 T A A GTATGTGTGGTAAATGAACCACTTTGAGAAGCTGGTTTTAAGTTCATCTTCCAGAGACCAGGCC
CTTCTTGCTCTGTTGAAAAGGCCTGGTCTCTGGAAGATGAACTTAAAACCAGCTTCTCAA[GA]GTGGTTCATTTACCACACATACTTCAGTGCTCTTTTCTGA
13738 IS [GA] TTTCATGTCCCTTATCAAGG ctg22fin4 22
13744 I A GCAGTCCAAGGTACCCCAGGGGTCAT
13744 P C A CGCGCCGAGGCTGGCCCTCTGTCTCY
13744 P G A ATGACGTGGCAGACGTGGCCCTCTGTCTCY
13744 T C A TGGGGAGACAGAGGGCCAGTGACCCCTGGGGTACCTTGGACTGCCA
13744 T G A TGGGGAGACAGAGGGCCACTGACCCCTGGGGTACCTTGGACTGCCA
GCGAGTGGGGTTAATAGTGTAAGGAACTCGAGTTGGCAGTCCAAGGTACCCCAGGGGTCA[CG]TGGCCCTCTGTCTCCCCAGCTTCTGCTCCGTAGCAGA
13744 IS [CG] CAAACTGCAGTGGACGCTCGCAC ctg22fin4 22
13745 I A CCAAAGGCACCTCCTGCCATAACACCCTT
13745 P G A ATGACGTGGCAGACGGGCTCCTTCCAGTGY
13745 P A A CGCGCCGAGGAGGCTCCTTCCAGTGY
13745 T G A GAGGCACTGGAAGGAGCCCAGGGTGTTATGGCAGGAGGTGCCTTTGGGG
13745 T A A GAGGCACTGGAAGGAGCCTAGGGTGTTATGGCAGGAGGTGCCTTTGGGG
CAACGAGTGCTTCCAGGACCCAGGACCCTGCCCCAAAGGCACCTCCTGCCATAACACCCT[GA]GGCTCCTTCCAGTGCCTCTGCCCTGTGGGGCAGGAGG
13745 IS [GA] GTCCACGTTGTGAGCTGCGGGCA ctg13206 14 NOTCH4
13747 I S TCCTGGCAAGTGCCCCCATTCTGACAA
13747 P G S ATGACGTGGCAGACCTGGTGGCTGACACAY
13747 P A S CGCGCCGAGGTTGGTGGCTGACACAY
13747 T G S CAACTGTGTCAGCCACCAGTGTCAGAATGGGGGCACTTGCCAGGATG
13747 T A S CAACTGTGTCAGCCACCAATGTCAGAATGGGGGCACTTGCCAGGATG
CCTGTCAGGTTTCATAGGCCCAGACTGTGAGGTGAATCCAGACAACTGTGTCAGCCACCA[GA]TGTCAGAATGGGGGCACTTGCCAGGATGGGCTGGACA
13747 IS [GA] CCTACACCTGCCTCTGCCCAGAA ctg13206 14
13749 I A CTGCGTGTGTGTGAGTGGCTGGGGT
13749 P C A CGCGCCGAGGCGGCACAAGCTGTGY
13749 P G A ATGACGTGGCAGACGGGCACAAGCTGTGY
13749 T C A TCCTCACAGCTTGTGCCGCCCCAGCCACTCACACACACGCAGTG
13749 T G A TCCTCACAGCTTGTGCCCCCCCAGCCACTCACACACACGCAGTG
CGGGGGCACCTGCCAGAACTCTGCTGGTAGCTTTCACTGCGTGTGTGTGAGTGGCTGGGG[CG]GGCACAAGCTGTGAGGAGAACCTGGATGACTGTATTG
13749 IS [CG] CTGCCACCTGTGCCCCGGGATCC ctg14824 1 NOTCH4
13750 I A AGCACCAGGAGGACTGCTAGGAGCTTCAAT
13750 P G A ATGACGTGGCAGACGTGGCCTTTGAGAGCY
13750 P A A CGCGCCGAGGATGGCCTTTGAGAGCCY
13750 T G A GTGAGGCTCTCAAAGGCCACTTGAAGCTCCTAGCAGTCCTCCTGGTGCTTC
13750 T A A GTGAGGCTCTCAAAGGCCATTTGAAGCTCCTAGCAGTCCTCCTGGTGCTTC

FIGURE 129E

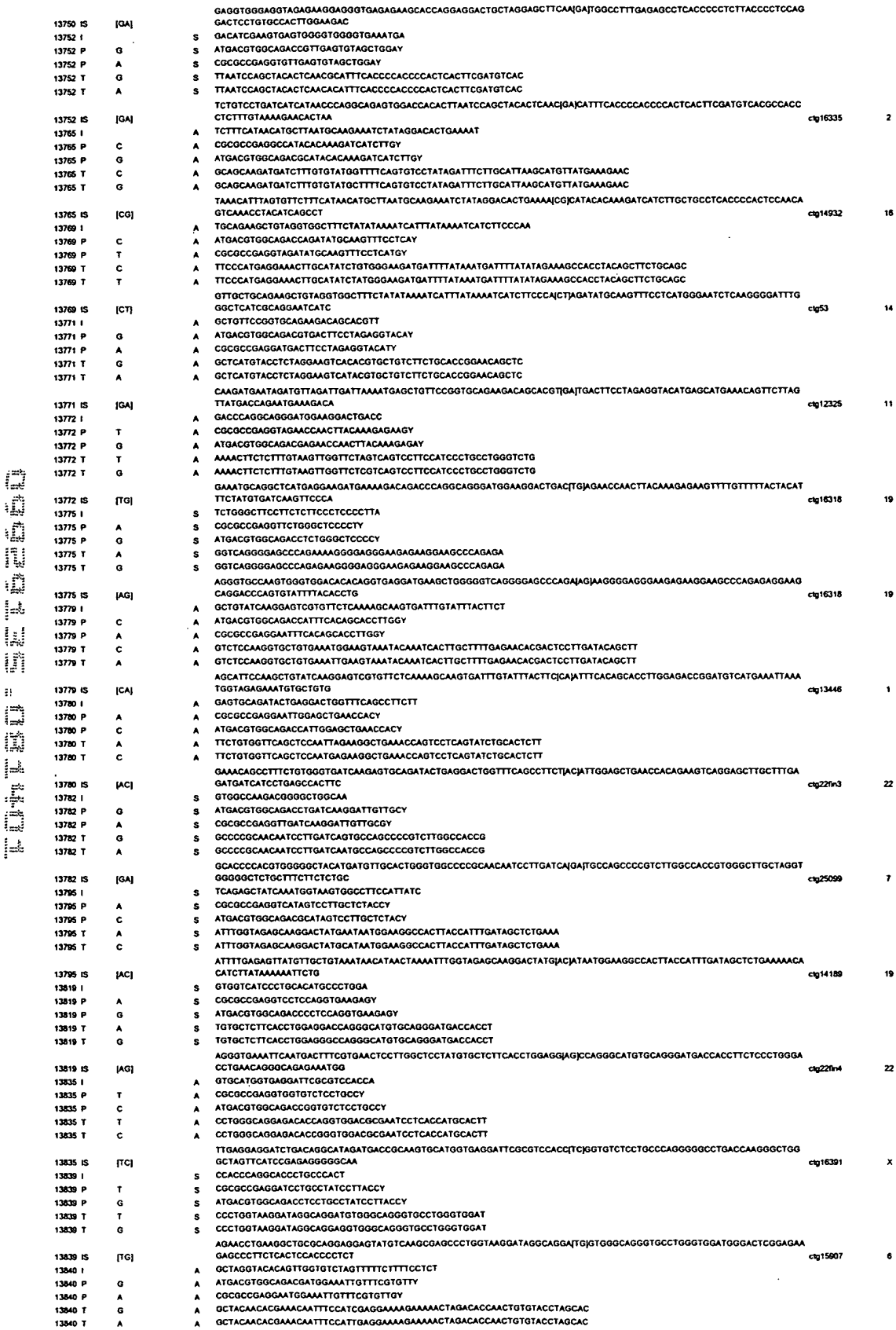


Exhibit 2149
Illumina, Inc. et al. v. Ariosa Diagnostics, Inc. et al.
IPR2013-00276, -00277, -00278, -00279, -00280, -00281

FIGURE 129E

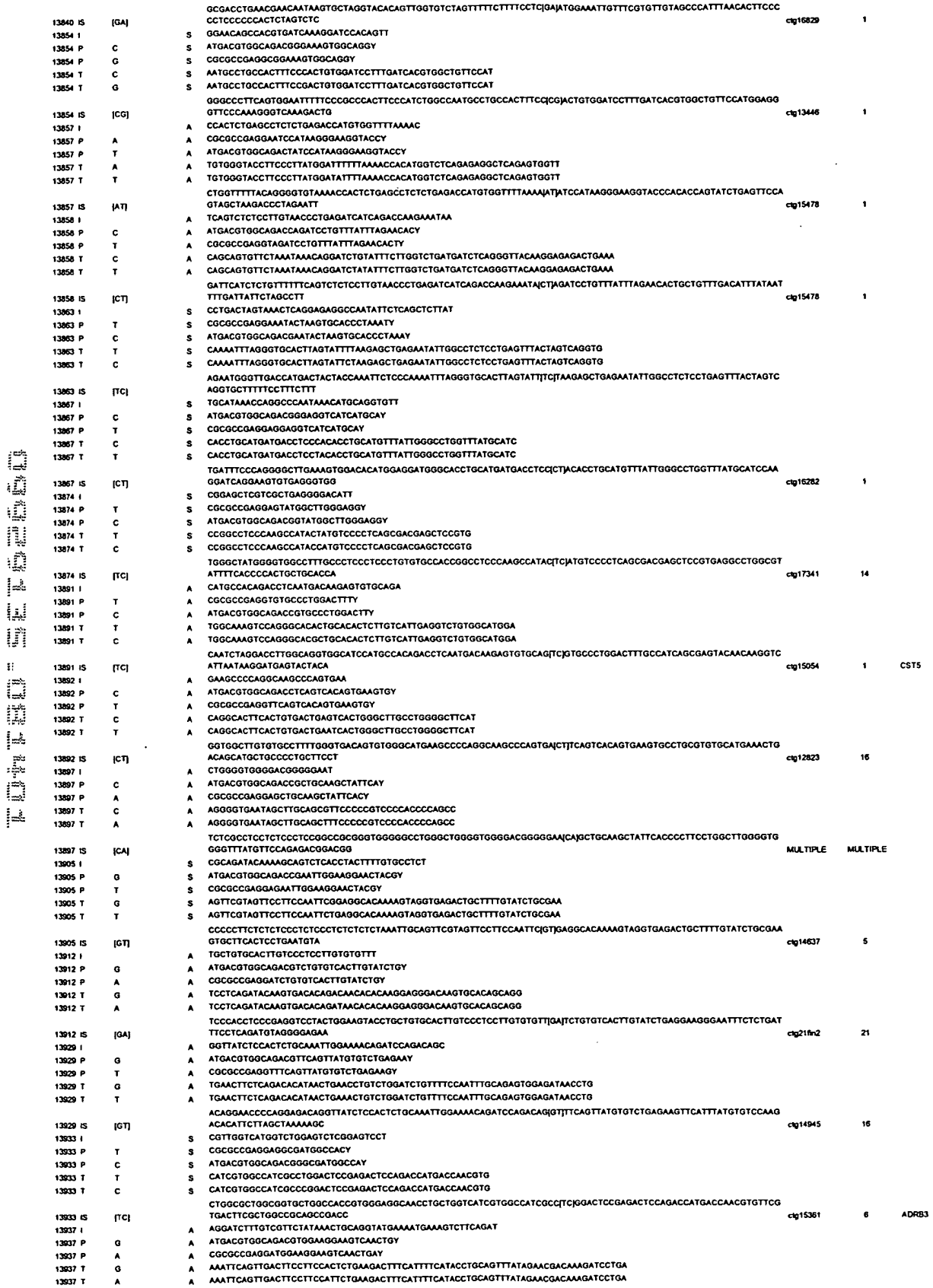
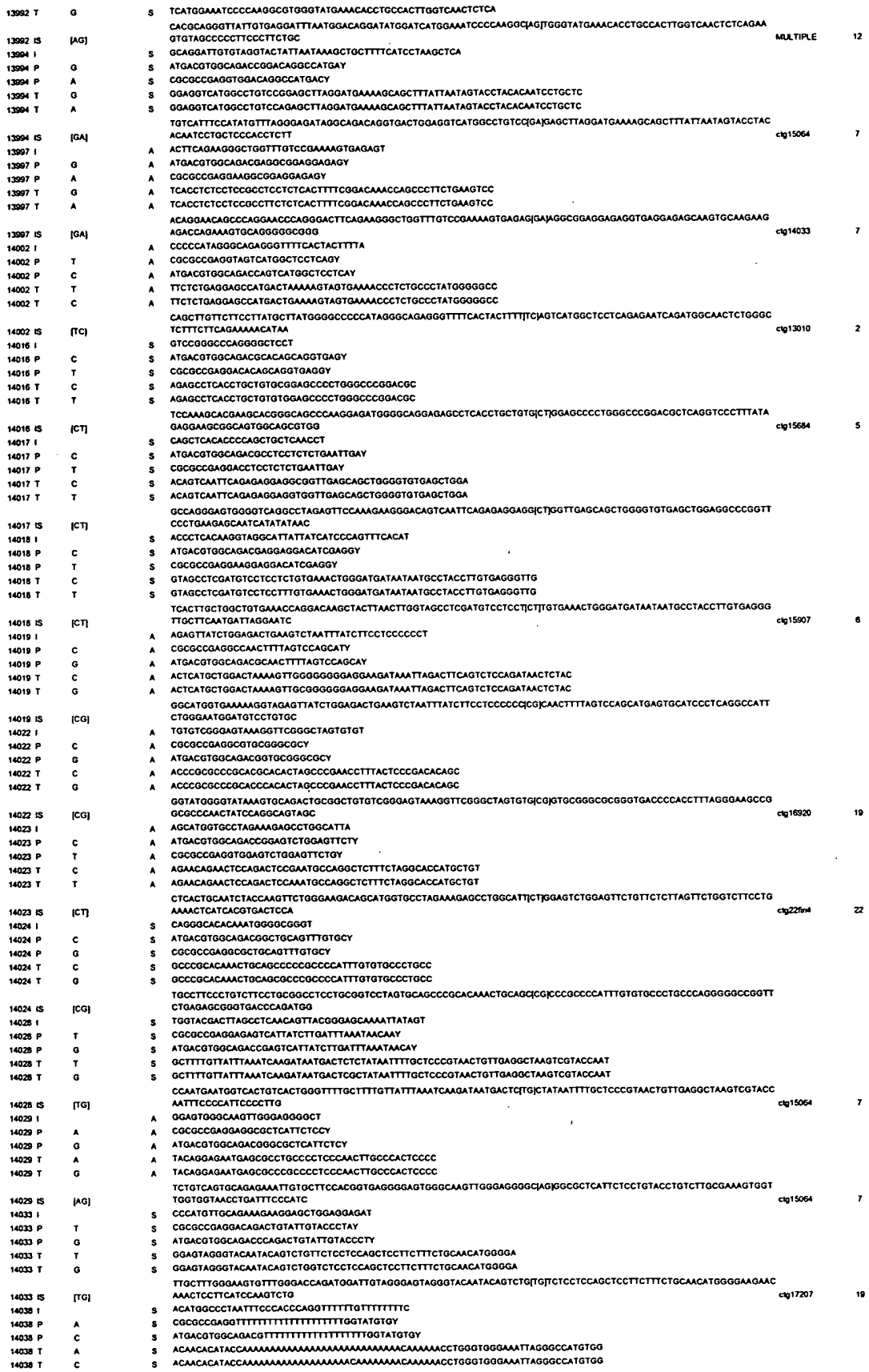

GCGACCTGAACGAACAATAAGTGCTAGGTACACAGTTGGTGTCTAGTTTTTCTTTTCCTC[GA]ATGGAAATTGTTTCGTGTTGTAGCCCATTTAACACTTCCC
13840 IS [GA] CCTCCCCCCACTCTAGTCTC ctg16829 1
13854 I S GGAACAGCCACGTGATCAAAGGATCCACAGTT
13854 P C S ATGACGTGGCAGACGGGAAAGTGGCAGGY
13854 P G S CGCGCCGAGGCGGAAAGTGGCAGGY
13854 T C S AATGCCTGCCACTTTCCCACTGTGGATCCTTTGATCACGTGGCTGTTCCAT
13854 T G S AATGCCTGCCACTTTCCGACTGTGGATCCTTTGATCACGTGGCTGTTCCAT
GGGCCCTTCAGTGGAATTTTTCCCGCCCACTTCCCATCTGGCCAATGCCTGCCACTTTC[CG]ACTGTGGATCCTTTGATCACGTGGCTGTTCCATGGAGG
13854 IS [CG] GTTCCCAAAGGGTCAAAGACTG ctg13446 1
13857 I A CCACTCTGAGCCTCTCTGAGACCATGTGGTTTTAAAAC
13857 P A A CGCGCCGAGGAATCCATAAGGGAAGGTACCY
13857 P T A ATGACGTGGCAGACTATCCATAAGGGAAGGTACCY
13857 T A A TGTGGGTACCTTCCCTTATGGATTTTTTAAAACCACATGGTCTCAGAGAGGCTCAGAGTGGTT
13857 T T A TGTGGGTACCTTCCCTTATGGATATTTTAAAACCACATGGTCTCAGAGAGGCTCAGAGTGGTT
CTGGTTTTTACAGGGGTGTAAAACCACTCTGAGCCTCTCTGAGACCATGTGGTTTTAAAA[AT]ATCCATAAGGGAAGGTACCCACACCAGTATCTGAGTTCCA
13857 IS [AT] GTAGCTAAGACCCTAGAATT ctg15478 1
13858 I A TCAGTCTCTCCTTGTAACCCTGAGATCATCAGACCAAGAAATAA
13858 P C A ATGACGTGGCAGACCAGATCCTGTTTATTTAGAACACY
13858 P T A CGCGCCGAGGTAGATCCTGTTTATTTAGAACACTY
13858 T C A CAGCAGTGTTCTAAATAAACAGGATCTGTATTTCTTGGTCTGATGATCTCAGGGTTACAAGGAGAGACTGAAA
13858 T T A CAGCAGTGTTCTAAATAAACAGGATCTATATTTCTTGGTCTGATGATCTCAGGGTTACAAGGAGAGACTGAAA
GATTCATCTCTGTTTTTTCAGTCTCTCCTTGTAACCCTGAGATCATCAGACCAAGAAATA[CT]AGATCCTGTTTATTTAGAACACTGCTGTTTGACATTTATAAT
13858 IS [CT] TTTGATTATTCTAGCCTT ctg15478 1
13863 I S CCTGACTAGTAAACTCAGGAGAGGCCAATATTCTCAGCTCTTAT
13863 P T S CGCGCCGAGGAAATACTAAGTGCACCCTAAATY
13863 P C S ATGACGTGGCAGACGAATACTAAGTGCACCCTAAAY
13863 T T S CAAAATTTAGGGTGCACTTAGTATTTTAAGAGCTGAGAATATTGGCCTCTCCTGAGTTTACTAGTCAGGTG
13863 T C S CAAAATTTAGGGTGCACTTAGTATTCTAAGAGCTGAGAATATTGGCCTCTCCTGAGTTTACTAGTCAGGTG
AGAATGGGTTGACCATGACTACTACCAAATTCTCCCAAAATTTAGGGTGCACTTAGTATT[TC]AAGAGCTGAGAATATTGGCCTCTCCTGAGTTTACTAGTC
13863 IS [TC] AGGTGCTTTTTCCTTTCTTT ctg15478 1
13867 I S TGCATAAACCAGGCCCAATAAACATGCAGGTGTT
13867 P C S ATGACGTGGCAGACGGGAGGTCATCATGCAY
13867 P T S CGCGCCGAGGAGGAGGTCATCATGCAY
13867 T C S CACCTGCATGATGACCTCCCACACCTGCATGTTTATTGGGCCTGGTTTATGCATC
13867 T T S CACCTGCATGATGACCTCCTACACCTGCATGTTTATTGGGCCTGGTTTATGCATC
TGATTTCCCAGGGGCTTGAAAGTGGACACATGGAGGATGGGCACCTGCATGATGACCTCC[CT]ACACCTGCATGTTTATTGGGCCTGGTTTATGCATCCAA
13867 IS [CT] GGATCAGGAAGTGTGAGGGTGG ctg16282 1
13874 I S CGGAGCTCGTCGCTGAGGGGACATT
13874 P T S CGCGCCGAGGAGTATGGCTTGGGAGGY
13874 P C S ATGACGTGGCAGACGGTATGGCTTGGGAGGY
13874 T T S CCGGCCTCCCAAGCCATACTATGTCCCCTCAGCGACGAGCTCCGTG
13874 T C S CCGGCCTCCCAAGCCATACCATGTCCCCTCAGCGACGAGCTCCGTG
TGGGCTATGGGGTGGCCTTTGCCCTCCCTCCCTGTGTGCCACCGGCCTCCCAAGCCATAC[TC]ATGTCCCCTCAGCGACGAGCTCCGTGAGGCCTGGCGT
13874 IS [TC] ATTTTCACCCCACTGCTGCACCA ctg17341 14
13891 I A CATGCCACAGACCTCAATGACAAGAGTGTGCAGA
13891 P T A CGCGCCGAGGTGTGCCCTGGACTTTY
13891 P C A ATGACGTGGCAGACCGTGCCCTGGACTTY
13891 T T A TGGCAAAGTCCAGGGCACACTGCACACTCTTGTCATTGAGGTCTGTGGCATGGA
13891 T C A TGGCAAAGTCCAGGGCACGCTGCACACTCTTGTCATTGAGGTCTGTGGCATGGA
CAATCTAGGACCTTGGCAGGTGGCATCCATGCCACAGACCTCAATGACAAGAGTGTGCAG[TC]GTGCCCTGGACTTTGCCATCAGCGAGTACAACAAGGTC
13891 IS [TC] ATTAATAAGGATGAGTACTACA ctg15054 1 CST5
13892 I A GAAGCCCCAGGCAAGCCCAGTGAA
13892 P C A ATGACGTGGCAGACCTCAGTCACAGTGAAGTGY
13892 P T A CGCGCCGAGGTTCAGTCACAGTGAAGTGY
13892 T C A CAGGCACTTCACTGTGACTGAGTCACTGGGCTTGCCTGGGGCTTCAT
13892 T T A CAGGCACTTCACTGTGACTGAATCACTGGGCTTGCCTGGGGCTTCAT
GGTGGCTTGTGTGCCTTTTGGGTGACAGTGTGGGCATGAAGCCCCAGGCAAGCCCAGTGA[CT]TCAGTCACAGTGAAGTGCCTGCGTGTGCATGAAACTG
13892 IS [CT] ACAGCATGCTGCCCCTGCTTCCT ctg12823 16
13897 I A CTGGGGTGGGGACGGGGGAAT
13897 P C A ATGACGTGGCAGACCGCTGCAAGCTATTCAY
13897 P A A CGCGCCGAGGAGCTGCAAGCTATTCACY
13897 T C A AGGGGTGAATAGCTTGCAGCGTTCCCCCGTCCCCACCCCAGCC
13897 T A A AGGGGTGAATAGCTTGCAGCTTTCCCCCGTCCCCACCCCAGCC
TCTCGCCTCCTCTCCCTCCGGCCGCGGGTGGGGGCCTGGGCTGGGGTGGGGACGGGGGAA[CA]GCTGCAAGCTATTCACCCCTTCCTGGCTTGGGGTG
13897 IS [CA] GGGTTTATGTTCCAGAGACGGACGG MULTIPLE MULTIPLE
13905 I S CGCAGATACAAAAGCAGTCTCACCTACTTTTGTGCCTCT
13905 P G S ATGACGTGGCAGACCGAATTGGAAGGAACTACGY
13905 P T S CGCGCCGAGGAGAATTGGAAGGAACTACGY
13905 T G S AGTTCGTAGTTCCTTCCAATTCGGAGGCACAAAAGTAGGTGAGACTGCTTTTGTATCTGCGAA
13905 T T S AGTTCGTAGTTCCTTCCAATTCTGAGGCACAAAAGTAGGTGAGACTGCTTTTGTATCTGCGAA
CCCCCTTCTCTCTCCCTCTCCCTCTCTCTCTAAATTGCAGTTCGTAGTTCCTTCCAATTC[GT]GAGGCACAAAAGTAGGTGAGACTGCTTTTGTATCTGCGAA
13905 IS [GT] GTGCTTCACTCCTGAATGTA ctg14637 5
13912 I A TGCTGTGCACTTGTCCCTCCTTGTGTGTTT
13912 P G A ATGACGTGGCAGACGTCTGTGTCACTTGTATCTGY
13912 P A A CGCGCCGAGGATCTGTGTCACTTGTATCTGY
13912 T G A TCCTCAGATACAAGTGACACAGACAACACACAAGGAGGGACAAGTGCACAGCAGG
13912 T A A TCCTCAGATACAAGTGACACAGATAACACACAAGGAGGGACAAGTGCACAGCAGG
TCCCACCTCCCGAGGTCCTACTGGAAGTACCTGCTGTGCACTTGTCCCTCCTTGTGTGTT[GA]TCTGTGTCACTTGTATCTGAGGAAGGGAATTTCTCTGAT
13912 IS [GA] TTCCTCAGATGTAGGGGAGAA ctg21fin2 21
13929 I A GGTTATCTCCACTCTGCAAATTGGAAAACAGATCCAGACAGC
13929 P G A ATGACGTGGCAGACGTTCAGTTATGTGTCTGAGAAY
13929 P T A CGCGCCGAGGTTTCAGTTATGTGTCTGAGAAGY
13929 T G A TGAACTTCTCAGACACATAACTGAACCTGTCTGGATCTGTTTTCCAATTTGCAGAGTGGAGATAACCTG
13929 T T A TGAACTTCTCAGACACATAACTGAAACTGTCTGGATCTGTTTTCCAATTTGCAGAGTGGAGATAACCTG
ACAGGAACCCCAGGAGACAGGTTATCTCCACTCTGCAAATTGGAAAACAGATCCAGACAG[GT]TTCAGTTATGTGTCTGAGAAGTTCATTTATGTGTCCAAG
13929 IS [GT] ACACATTCTTAGCTAAAAAGC ctg14945 16
13933 I S CGTTGGTCATGGTCTGGAGTCTCGGAGTCCT
13933 P T S CGCGCCGAGGAGGCGATGGCCACY
13933 P C S ATGACGTGGCAGACGGGCGATGGCCAY
13933 T T S CATCGTGGCCATCGCCTGGACTCCGAGACTCCAGACCATGACCAACGTG
13933 T C S CATCGTGGCCATCGCCCGGACTCCGAGACTCCAGACCATGACCAACGTG
CTGGCGCTGGCGGTGCTGGCCACCGTGGGAGGCAACCTGCTGGTCATCGTGGCCATCGCC[TC]GGACTCCGAGACTCCAGACCATGACCAACGTGTTCG
13933 IS [TC] TGACTTCGCTGGCCGCAGCCGACC ctg15361 6 ADRB3
13937 I A AGGATCTTTGTCGTTCTATAAACTGCAGGTATGAAAATGAAAGTCTTCAGAT
13937 P G A ATGACGTGGCAGACGTGGAAGGAAGTCAACTGY
13937 P A A CGCGCCGAGGATGGAAGGAAGTCAACTGAY
13937 T G A AAATTCAGTTGACTTCCTTCCACTCTGAAGACTTTCATTTTCATACCTGCAGTTTATAGAACGACAAAGATCCTGA
13937 T A A AAATTCAGTTGACTTCCTTCCATTCTGAAGACTTTCATTTTCATACCTGCAGTTTATAGAACGACAAAGATCCTGA

FIGURE 129E

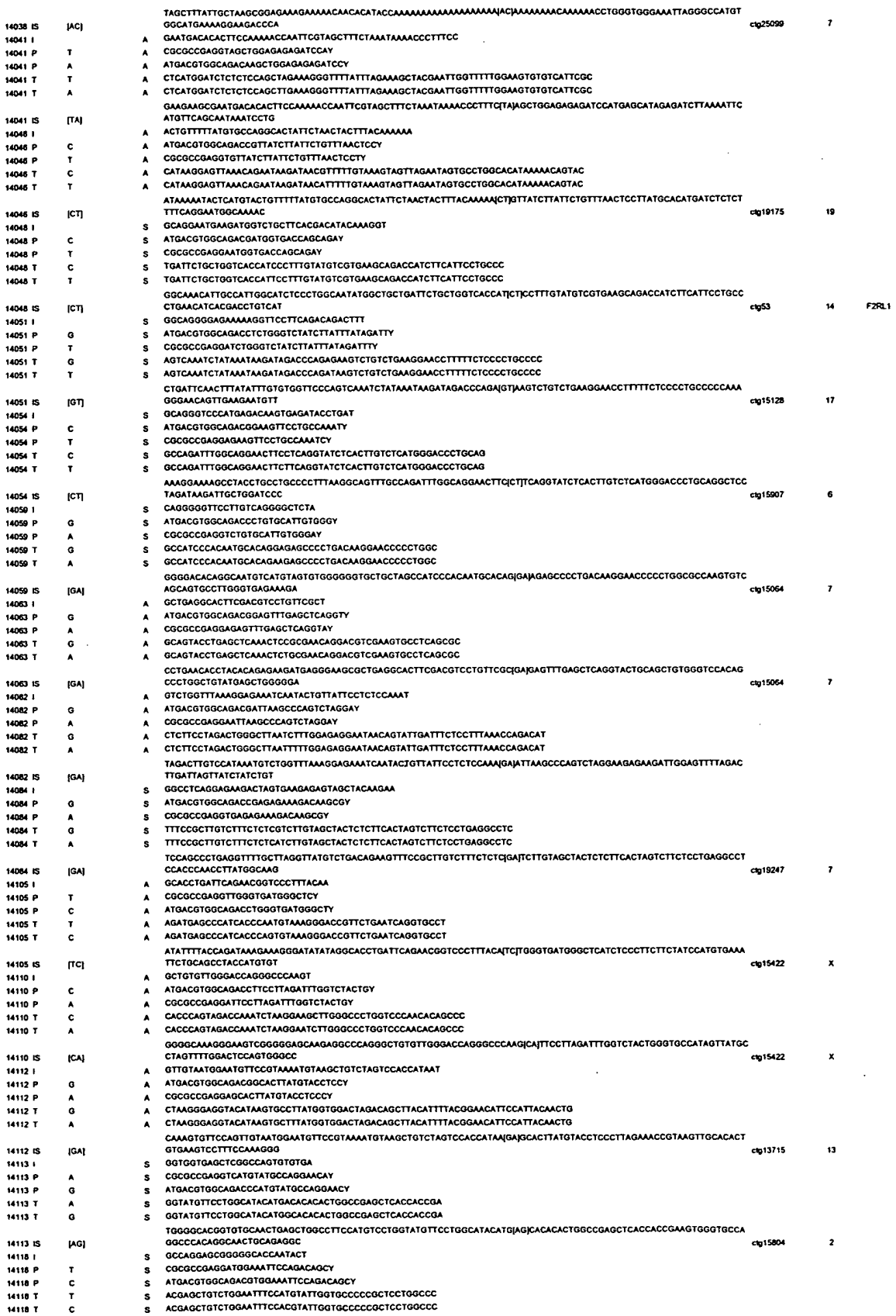
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13937	IS	[GA]		AGGTGATAGAAAATATCCA	ctg16733	3	
13942	I		A	CAGCCAGGCTGGTATTTTCCAAAGGCAGAGAA			
13942	P	C	A	ATGACGTGGCAGACCGGTCCCTGCCCY			
13942	P	T	A	CGCGCCGAGGTGGTCCCTGCCCAY			
13942	T	C	A	CTTCTGGGCAGGGACCGTCTCTGCCTTTGGAAAATACCAGCCTGGCTGCC			
13942	T	T	A	CTTCTGGGCAGGGACCATCTCTGCCTTTGGAAAATACCAGCCTGGCTGCC			
				TTTCCCTGCTGAGGGTTTGTAACGTCTGGCAGCCAGGCTGGTATTTTCCAAAGGCAGAGA[CT]GGTCCCTGCCCAGAAGCTGTGATTTCAGGGGGCCAGG			
13942	IS	[CT]		AGTGGCACCCTACCATCTCCTCA	ctg15907	6	
13945	I		S	GAAACCGAGACACAGGAGGCTTATGTAAGATGTCCAATGC			
13945	P	A	S	CGCGCCGAGGTCATACAGCAATTAACTGGTY			
13945	P	C	S	ATGACGTGGCAGACGCATACAGCAATTAACTGGY			
13945	T	A	S	CTCCACCAGTTAATTGCTGTATGACATTGGACATCTTACATAAGCCTCCTGTGTCTCGGTTTCCT			
13945	T	C	S	CTCCACCAGTTAATTGCTGTATGCCATTGGACATCTTACATAAGCCTCCTGTGTCTCGGTTTCCT			
				TTTCCAGAAATTATCCTTTCCTCCCTCTTCCTTCTGGCTCCACCAGTTAATTGCTGTATG[AC]CATTGGACATCTTACATAAGCCTCCTGTGTCTCGGTTTCCT			
13945	IS	[AC]		TATTTGTAAAATGGAGCGT	ctg14243	19	
13946	I		A	CCTCATAAGGTCACTGGGGGCTTAAAGGAGAGGT			
13946	P	G	A	ATGACGTGGCAGACGTGCAGAGAAGGAACCTY			
13946	P	A	A	CGCGCCGAGGATGCAGAGAAGGAACCTY			
13946	T	G	A	GTGGAGGTTCCTTCTCTGCACCCTCTCCTTTAAGCCCCCAGTGACCTTATGAGGTA			
13946	T	A	A	GTGGAGGTTCCTTCTCTGCATCCTCTCCTTTAAGCCCCCAGTGACCTTATGAGGTA			
				TGTAAAATGGAGCGTAATAAACACCTACCTCATAAGGTCACTGGGGGCTTAAAGGAGAGG[GA]TGCAGAGAAGGAACCTCCACAGAACCTGGCACCTTGTA			
13946	IS	[GA]		TGAACTGGCTAGGGGTTGGCTC	ctg17241	X	
13947	I		S	GCTTCAAAACAAATATGATATCTTGCTAAATAGAACATTCGTAAAAGATCCATAAGT			
13947	P	G	S	CGCGCCGAGGCAAATAATGAACTAGAAATAAATTGAAAGAY			
13947	P	C	S	ATGACGTGGCAGACGAAATAATGAACTAGAAATAAATTGAAAGAY			
13947	T	G	S	TCAATCTTTCAATTTATTTCTAGTTCATTATTTGCTTATGGATCTTTTACGAATGTTCTATTTAGCAAGATATCATATTTGTTTTGAAGCTT			
13947	T	C	S	TCAATCTTTCAATTTATTTCTAGTTCATTATTTCCTTATGGATCTTTTACGAATGTTCTATTTAGCAAGATATCATATTTGTTTTGAAGCTT			
				AACATTATATGTGAGTACATCACTATGTCAATCTTTCAATTTATTTCTAGTTCATTATTT[GC]CTTATGGATCTTTTACGAATGTTCTATTTAGCAAGATATCATA			
13947	IS	[GC]		TTTGTTTTGAAGCTTGG	ctg15907	6	
13950	I		S	CCAGCACCTGGCCCTTCAGCCCA			
13950	P	G	S	ATGACGTGGCAGACCGCATAGAAGTTGAAGCCY			
13950	P	A	S	CGCGCCGAGGTGCATAGAAGTTGAAGCCY			
13950	T	G	S	AGGTGGCTTCAACTTCTATGCGGGGCTGAAGGGCCAGGTGCTGGTG			
13950	T	A	S	AGGTGGCTTCAACTTCTATGCAGGGCTGAAGGGCCAGGTGCTGGTG			
				AGGGGTGCCCCTTCGGCGGCACTTTAATTCCAACTTTAAAGGTGGCTTCAACTTCTATGC[GA]GGGCTGAAGGGCCAGGTGCTGGTGCTGCGGACAACTTC			
13950	IS	[GA]		AACTGTCTACAATTATGATTAC	ctg15907	6	ABP1
13954	I		S	CCTACACACATGGCCCTGTGCCTCCCA			
13954	P	A	S	CGCGCCGAGGTGCAAGAAGCAGCACY			
13954	P	G	S	ATGACGTGGCAGACCGCAAGAAGCAGCACY			
13954	T	A	S	CTGTGTGCTGCTTCTTGCAGGGAGGCACAGGGCCATGTGTGTAGGAA			
13954	T	G	S	CTGTGTGCTGCTTCTTGCGGGGAGGCACAGGGCCATGTGTGTAGGAA			
				GGAGCCTCACTGGGGCAGACAATAAACCCTCAGAGCCTCGCTCTGTGTGCTGCTTCTTGC[AG]GGGAGGCACAGGGCCATGTGTGTAGGAAACACACGAA			
13954	IS	[AG]		CAGACGTGCACACACACACAGAC	ctg15907	6	
13957	I		A	AGACATGTGTTCCCCAATCTTCTTGCCTACTGTGTCT			
13957	P	G	A	ATGACGTGGCAGACGCCTGGGAAGAGTAAAACY			
13957	P	A	A	CGCGCCGAGGACCTGGGAAGAGTAAAACY			
13957	T	G	A	ATAGGTTTTACTCTTCCCAGGCGACACAGTAGGCAAGAAGATTGGGGAACACATGTCTGG			
13957	T	A	A	ATAGGTTTTACTCTTCCCAGGTGACACAGTAGGCAAGAAGATTGGGGAACACATGTCTGG			
				CAGTGTCAAGAGTCCAGGAATGCCAGACATGTGTTCCCCAATCTTCTTGCCTACTGTGTC[GA]CCTGGGAAGAGTAAAACCTATTGTGAAGTGAATGCTTTC			
13957	IS	[GA]		CATCCCTGTCTTAAGGGTCTG	ctg15907	6	
13959	I		A	CCACAGAAAAGATGAATGCCTCCACACTTCCTTTTGGAAAC			
13959	P	T	A	CGCGCCGAGGTAAATCATAAAGCAATCATGTACATY			
13959	P	G	A	ATGACGTGGCAGACGAAATCATAAAGCAATCATGTACAY			
13959	T	T	A	TAAAATGTACATGATTGCTTTATGATTTATTTCCAAAAGGAAGTGTGGAGGCATTCATCTTTTCTGTGGTT			
13959	T	G	A	TAAAATGTACATGATTGCTTTATGATTTCTTTCCAAAAGGAAGTGTGGAGGCATTCATCTTTTCTGTGGTT			
				TATAACCAGCAGGAATAGAACCACAGAAAAGATGAATGCCTCCACACTTCCTTTTGGAAA[TG]AAATCATAAAGCAATCATGTACATTTTAAGAGGCACTCAG			
13959	IS	[TG]		CTGATGTGGTGAAGTGTACA			
13966	I		A	CCCTGACCCTGGCATCCTGGCTCATTC			
13966	P	G	A	ATGACGTGGCAGACGTTAGTTCGTCTCATCACTTY			
13966	P	T	A	CGCGCCGAGGTTTAGTTCGTCTCATCACTTGY			
13966	T	G	A	GTTCCAAGTGATGAGACGAACTAACAATGAGCCAGGATGCCAGGGTCAGGGGT			
13966	T	T	A	GTTCCAAGTGATGAGACGAACTAAAAATGAGCCAGGATGCCAGGGTCAGGGGT			
				TTCCTGCAGCCTCCTTAGAACCCCATGTTGACACCCCTGACCCTGGCATCCTGGCTCATT[GT]TTAGTTCGTCTCATCACTTGGAACCTGTCTGATTCACCT			
13966	IS	[GT]		CACTCTCTTCTCCCCAACCCT	ctg15907	6	
13970	I		A	CCCCCTAACTGCATCACCTTTTCCCTA			
13970	P	T	A	CGCGCCGAGGTAAGCTTTTTAATTCCTATGAGGY			
13970	P	C	A	ATGACGTGGCAGACCAAGCTTTTTAATTCCTATGAGGY			
13970	T	T	A	GGGGCCTCATAGGAATTAAAAAGCTTAAGGGAAAAGGTGATGCAGTTAGGGGGTA			
13970	T	C	A	GGGGCCTCATAGGAATTAAAAAGCTTGAGGGAAAAGGTGATGCAGTTAGGGGGTA			
				GGGTGTCTCCTCTTTTATCATCCTCAATGTTTTACCCCCTAACTGCATCACCTTTTCCCT[TC]AAGCTTTTTAATTCCTATGAGGCCCCTTCCACTTCCCCTAT			
13970	IS	[TC]		CCCCTTAGGCCCACCCCCA	ctg15907	6	
13986	I		S	CGAAGGATGGGCTCAGGAGCCCCAT			
13986	P	T	S	CGCGCCGAGGATGTGCTCTACCACACAY			
13986	P	C	S	ATGACGTGGCAGACGTGTGCTCTACCACACY			
13986	T	T	S	CACCTGTGTGGTAGAGCACATTGGGGCTCCTGAGCCCATCCTTCGGG			
13986	T	C	S	CACCTGTGTGGTAGAGCACACTGGGGCTCCTGAGCCCATCCTTCGGG			
				TCTCCCATTTAGCCTTAACCCCCTCTTACGGGGACACTTACACCTGTGTGGTAGAGCACA[TC]TGGGGCTCCTGAGCCCATCCTTCGGGACTGGAGTAAGT			
13986	IS	[TC]		GTATGGCAGATGGATGGAATTA	ctg15907	6	
13988	I		S	GGCTAGAATAGTGTATTACAATTTGGGGTTCTGAAAATATGATTGCCAAATTTACAC			
13988	P	A	S	CGCGCCGAGGTCCTCATTTCAAAGCAAGCY			
13988	P	C	S	ATGACGTGGCAGACGCCTCATTTCAAAGCAAGY			
13988	T	A	S	GCGTGCTTGCTTTGAAATGAGGATGTAAATTTGGCAATCATATTTTCAGAACCCCAAATTGTAATACACTATTCTAGCCTC			
13988	T	C	S	GCGTGCTTGCTTTGAAATGAGGCTGTAAATTTGGCAATCATATTTTCAGAACCCCAAATTGTAATACACTATTCTAGCCTC			
				CTGATGTTGCTGCGTCTATGTTTGAGGGTGAGAGGGGAGCGTGCTTGCTTTGAAATGAGG[AC]TGTAAATTTGGCAATCATATTTTCAGAACCCCAAATTGT			
13988	IS	[AC]		AATACACTATTCTAGCCTCCT	ctg25099	7	
13991	I		A	GCTGACCTGGAGGCCCAGGTTGAGTT			
13991	P	C	A	ATGACGTGGCAGACCCCTGAAGGAGGAGCY			
13991	P	A	A	CGCGCCGAGGACCTGAAGGAGGAGCY			
13991	T	C	A	ATCAGCTCCTCCTTCAGGGACTCAACCTGGGCCTCCAGGTCAGCCT			
13991	T	A	A	ATCAGCTCCTCCTTCAGGTACTCAACCTGGGCCTCCAGGTCAGCCT			
				TGCGCAGGATCCTGGATGATCTCACTCTGTGCAAGGCTGACCTGGAGGCCCAGGTTGAGT[CA]CCTGAAGGAGGAGCTGATGTGCCTCAAAAAGAACCAT			
13991	IS	[CA]		GAGGAGGTGAGGCTGGAAGTCCC	ctg19247	7	
13992	I		S	AGAGTTGACCAAGTGGCAGGTGTTTCATACCCAA			
13992	P	A	S	CGCGCCGAGGTGCCTTGGGGATTTCCY			
13992	P	G	S	ATGACGTGGCAGACCGCCTTGGGGATTTCY			
13992	T	A	S	TCATGGAAATCCCCAAGGCATGGGTATGAAACACCTGCCACTTGGTCAACTCTCA			

FIGURE 129E



Filed: May 31, 2006

FIGURE 129E



				TAGCTTTATTGCTAAGCGGAGAAAGAAAAACAACACATACCAAAAAAAAAAAAAAAAAAAA[AC]AAAAAAAACAAAAAACCTGGGTGGGAAATTAGGGCCATGT			
14038	IS	[AC]		GGCATGAAAAGGAAGACCCA	ctg25099	7	
14041	I		A	GAATGACACACTTCCAAAAACCAATTCGTAGCTTTCTAAATAAAACCCTTTCC			
14041	P	T	A	CGCGCCGAGGTAGCTGGAGAGAGATCCAY			
14041	P	A	A	ATGACGTGGCAGACAAGCTGGAGAGAGATCCY			
14041	T	T	A	CTCATGGATCTCTCTCCAGCTAGAAAGGGTTTTATTTAGAAAGCTACGAATTGGTTTTTGGAAGTGTGTCATTCGC			
14041	T	A	A	CTCATGGATCTCTCTCCAGCTTGAAAGGGTTTTATTTAGAAAGCTACGAATTGGTTTTTGGAAGTGTGTCATTCGC			
14041	IS	[TA]		GAAGAAGCGAATGACACACTTCCAAAAACCAATTCGTAGCTTTCTAAATAAAACCCTTTC[TA]AGCTGGAGAGAGATCCATGAGCATAGAGATCTTAAAATTC ATGTTCAGCAATAAATCCTG			
14046	I		A	ACTGTTTTTATGTGCCAGGCACTATTCTAACTACTTTACAAAAAA			
14046	P	C	A	ATGACGTGGCAGACCGTTATCTTATTCTGTTTAACTCCY			
14046	P	T	A	CGCGCCGAGGTGTTATCTTATTCTGTTTAACTCCTY			
14046	T	C	A	CATAAGGAGTTAAACAGAATAAGATAACGTTTTTGTAAAGTAGTTAGAATAGTGCCTGGCACATAAAAACAGTAC			
14046	T	T	A	CATAAGGAGTTAAACAGAATAAGATAACATTTTTGTAAAGTAGTTAGAATAGTGCCTGGCACATAAAAACAGTAC			
14046	IS	[CT]		ATAAAAATACTCATGTACTGTTTTTATGTGCCAGGCACTATTCTAACTACTTTACAAAAA[CT]GTTATCTTATTCTGTTTAACTCCTTATGCACATGATCTCTCT TTTCAGGAATGGCAAAAC	ctg19175	19	
14048	I		S	GCAGGAATGAAGATGGTCTGCTTCACGACATACAAAGGT			
14048	P	C	S	ATGACGTGGCAGACGATGGTGACCAGCAGAY			
14048	P	T	S	CGCGCCGAGGAATGGTGACCAGCAGAY			
14048	T	C	S	TGATTCTGCTGGTCACCATCCCTTTGTATGTCGTGAAGCAGACCATCTTCATTCCTGCCC			
14048	T	T	S	TGATTCTGCTGGTCACCATTCCTTTGTATGTCGTGAAGCAGACCATCTTCATTCCTGCCC			
14048	IS	[CT]		GGCAAACATTGCCATTGGCATCTCCCTGGCAATATGGCTGCTGATTCTGCTGGTCACCAT[CT]CCTTTGTATGTCGTGAAGCAGACCATCTTCATTCCTGCC CTGAACATCACGACCTGTCAT	ctg53	14	FZRL1
14051	I		S	GGCAGGGGAGAAAAAGGTTCCTTCAGACAGACTTT			
14051	P	G	S	ATGACGTGGCAGACCTCTGGGTCTATCTTATTTATAGATTY			
14051	P	T	S	CGCGCCGAGGATCTGGGTCTATCTTATTTATAGATTTY			
14051	T	G	S	AGTCAAATCTATAAATAAGATAGACCCAGAGAAGTCTGTCTGAAGGAACCTTTTTCTCCCCTGCCCC			
14051	T	T	S	AGTCAAATCTATAAATAAGATAGACCCAGATAAGTCTGTCTGAAGGAACCTTTTTCTCCCCTGCCCC			
14051	IS	[GT]		CTGATTCAACTTTATATTTGTGTGGTTCCCAGTCAAATCTATAAATAAGATAGACCCAGA[GT]AAGTCTGTCTGAAGGAACCTTTTTCTCCCCTGCCCCCAAA GGGAACAGTTGAAGAATGTT	ctg15128	17	
14054	I		S	GCAGGGTCCCATGAGACAAGTGAGATACCTGAT			
14054	P	C	S	ATGACGTGGCAGACGGAAGTTCCTGCCAAATY			
14054	P	T	S	CGCGCCGAGGAGAAGTTCCTGCCAAATCY			
14054	T	C	S	GCCAGATTTGGCAGGAACTTCCTCAGGTATCTCACTTGTCTCATGGGACCCTGCAG			
14054	T	T	S	GCCAGATTTGGCAGGAACTTCTTCAGGTATCTCACTTGTCTCATGGGACCCTGCAG			
14054	IS	[CT]		AAAGGAAAAGCCTACCTGCCTGCCCCTTTAAGGCAGTTTGCCAGATTTGGCAGGAACTTC[CT]TCAGGTATCTCACTTGTCTCATGGGACCCTGCAGGCTCC TAGATAAGATTGCTGGATCCC	ctg15907	6	
14059	I		S	CAGGGGGTTCCTTGTCAGGGGCTCTA			
14059	P	G	S	ATGACGTGGCAGACCCTGTGCATTGTGGGY			
14059	P	A	S	CGCGCCGAGGTCTGTGCATTGTGGGAY			
14059	T	G	S	GCCATCCCACAATGCACAGGAGAGCCCCTGACAAGGAACCCCCTGGC			
14059	T	A	S	GCCATCCCACAATGCACAGAAGAGCCCCTGACAAGGAACCCCCTGGC			
14059	IS	[GA]		GGGGACACAGGCAATGTCATGTAGTGTGGGGGGTGCTGCTAGCCATCCCACAATGCACAG[GA]AGAGCCCCTGACAAGGAACCCCCTGGCGCCAAGTGTC AGCAGTGCCTTGGGTGAGAAAGA	ctg15064	7	
14063	I		A	GCTGAGGCACTTCGACGTCCTGTTCGCT			
14063	P	G	A	ATGACGTGGCAGACGGAGTTTGAGCTCAGGTY			
14063	P	A	A	CGCGCCGAGGAGAGTTTGAGCTCAGGTAY			
14063	T	G	A	GCAGTACCTGAGCTCAAACTCCGCGAACAGGACGTCGAAGTGCCTCAGCGC			
14063	T	A	A	GCAGTACCTGAGCTCAAACTCTGCGAACAGGACGTCGAAGTGCCTCAGCGC			
14063	IS	[GA]		CCTGAACACCTACACAGAGAAGATGAGGGAAGCGCTGAGGCACTTCGACGTCCTGTTCGC[GA]GAGTTTGAGCTCAGGTACTGCAGCTGTGGGTCCACAG CCCTGGCTGTATGAGCTGGGGGA	ctg15064	7	
14082	I		A	GTCTGGTTTAAAGGAGAAATCAATACTGTTATTCCTCTCCAAAT			
14082	P	G	A	ATGACGTGGCAGACGATTAAGCCCAGTCTAGGAY			
14082	P	A	A	CGCGCCGAGGAATTAAGCCCAGTCTAGGAY			
14082	T	G	A	CTCTTCCTAGACTGGGCTTAATCTTTGGAGAGGAATAACAGTATTGATTTCTCCTTTAAACCAGACAT			
14082	T	A	A	CTCTTCCTAGACTGGGCTTAATTTTTGGAGAGGAATAACAGTATTGATTTCTCCTTTAAACCAGACAT			
14082	IS	[GA]		TAGACTTGTCCATAAATGTCTGGTTTAAAGGAGAAATCAATAC[GT]TATTCCTCTCCAAA[GA]ATTAAGCCCAGTCTAGGAAGAGAAGATTGGAGTTTTAGAC TTGATTAGTTATCTATCTGT			
14084	I		S	GGCCTCAGGAGAAGACTAGTGAAGAGAGTAGCTACAAGAA			
14084	P	G	S	ATGACGTGGCAGACCGAGAGAAAGACAAGCGY			
14084	P	A	S	CGCGCCGAGGTGAGAGAAAGACAAGCGY			
14084	T	G	S	TTTCCGCTTGTCTTTCTCTCGTCTTGTAGCTACTCTCTTCACTAGTCTTCTCCTGAGGCCTC			
14084	T	A	S	TTTCCGCTTGTCTTTCTCTCATCTTGTAGCTACTCTCTTCACTAGTCTTCTCCTGAGGCCTC			
14084	IS	[GA]		TCCAGCCCTGAGGTTTTGCTTAGGTTATGTCTGACAGAAGTTTCCGCTTGTCTTTCTCT[GA]TCTTGTAGCTACTCTCTTCACTAGTCTTCTCCTGAGGCCT CCACCCAACCTTATGGCAAG	ctg19247	7	
14105	I		A	GCACCTGATTCAGAACGGTCCCTTTACAA			
14105	P	T	A	CGCGCCGAGGTTGGGTGATGGGCTCY			
14105	P	C	A	ATGACGTGGCAGACCTGGGTGATGGGCTY			
14105	T	T	A	AGATGAGCCCATCACCCAATGTAAAGGGACCGTTCTGAATCAGGTGCCT			
14105	T	C	A	AGATGAGCCCATCACCCAGTGTAAAGGGACCGTTCTGAATCAGGTGCCT			
14105	IS	[TC]		ATATTTTACCAGATAAAGAAAGGGATATATAGGCACCTGATTCAGAACGGTCCCTTTACA[TC]TGGGTGATGGGCTCATCTCCCTTCTTCTATCCATGTGAAA TTCTGCAGCCTACCATGTGT	ctg15422	X	
14110	I		A	GCTGTGTTGGGACCAGGGCCCAAGT			
14110	P	C	A	ATGACGTGGCAGACCTTCCTTAGATTTGGTCTACTGY			
14110	P	A	A	CGCGCCGAGGATTCCTTAGATTTGGTCTACTGY			
14110	T	C	A	CACCCAGTAGACCAAATCTAAGGAAGCTTGGGCCCTGGTCCCAACACAGCCC			
14110	T	A	A	CACCCAGTAGACCAAATCTAAGGAATCTTGGGCCCTGGTCCCAACACAGCCC			
14110	IS	[CA]		GGGGCAAAGGGAAGTCGGGGGAGCAAGAGGCCCAGGGCTGTGTTGGGACCAGGGCCCAAG[CA]TTCCTTAGATTTGGTCTACTGGGTGCCATAGTTATGC CTAGTTTTGGACTCCAGTGGGCC	ctg15422	X	
14112	I		A	GTTGTAATGGAATGTTCCGTAAAATGTAAGCTGTCTAGTCCACCATAAT			
14112	P	G	A	ATGACGTGGCAGACGGCACTTATGTACCTCCY			
14112	P	A	A	CGCGCCGAGGAGCACTTATGTACCTCCCY			
14112	T	G	A	CTAAGGGAGGTACATAAGTGCCTTATGGTGGACTAGACAGCTTACATTTTACGGAACATTCCATTACAACTG			
14112	T	A	A	CTAAGGGAGGTACATAAGTGCTTTATGGTGGACTAGACAGCTTACATTTTACGGAACATTCCATTACAACTG			
14112	IS	[GA]		CAAAGTGTTCCAGTTGTAATGGAATGTTCCGTAAAATGTAAGCTGTCTAGTCCACCATAA[GA]GCACTTATGTACCTCCCTTAGAAACCGTAAGTTGCACACT GTGAAGTCCTTTCCAAAGGG	ctg13715	13	
14113	I		S	GGTGGTGAGCTCGGCCAGTGTGTGA			
14113	P	A	S	CGCGCCGAGGTCATGTATGCCAGGAACAY			
14113	P	G	S	ATGACGTGGCAGACCCATGTATGCCAGGAACY			
14113	T	A	S	GGTATGTTCCTGGCATACATGACACACACTGGCCGAGCTCACCACCGA			
14113	T	G	S	GGTATGTTCCTGGCATACATGGCACACACTGGCCGAGCTCACCACCGA			
14113	IS	[AG]		TGGGGCACGGTGTGCAACTGAGCTGGCCTTCCATGTCCTGGTATGTTCCTGGCATACATG[AG]CACACACTGGCCGAGCTCACCACCGAAGTGGGTGCCA GGCCCACAGGCAACTGCAGAGGC	ctg15804	2	
14118	I		S	GCCAGGAGCGGGGGCACCAATACT			
14118	P	T	S	CGCGCCGAGGATGGAAATTCCAGACAGCY			
14118	P	C	S	ATGACGTGGCAGACGTGGAAATTCCAGACAGCY			
14118	T	T	S	ACGAGCTGTCTGGAATTTCCATGTATTGGTGCCCCCGCTCCTGGCCC			
14118	T	C	S	ACGAGCTGTCTGGAATTTCCACGTATTGGTGCCCCCGCTCCTGGCCC			

FIGURE 129E

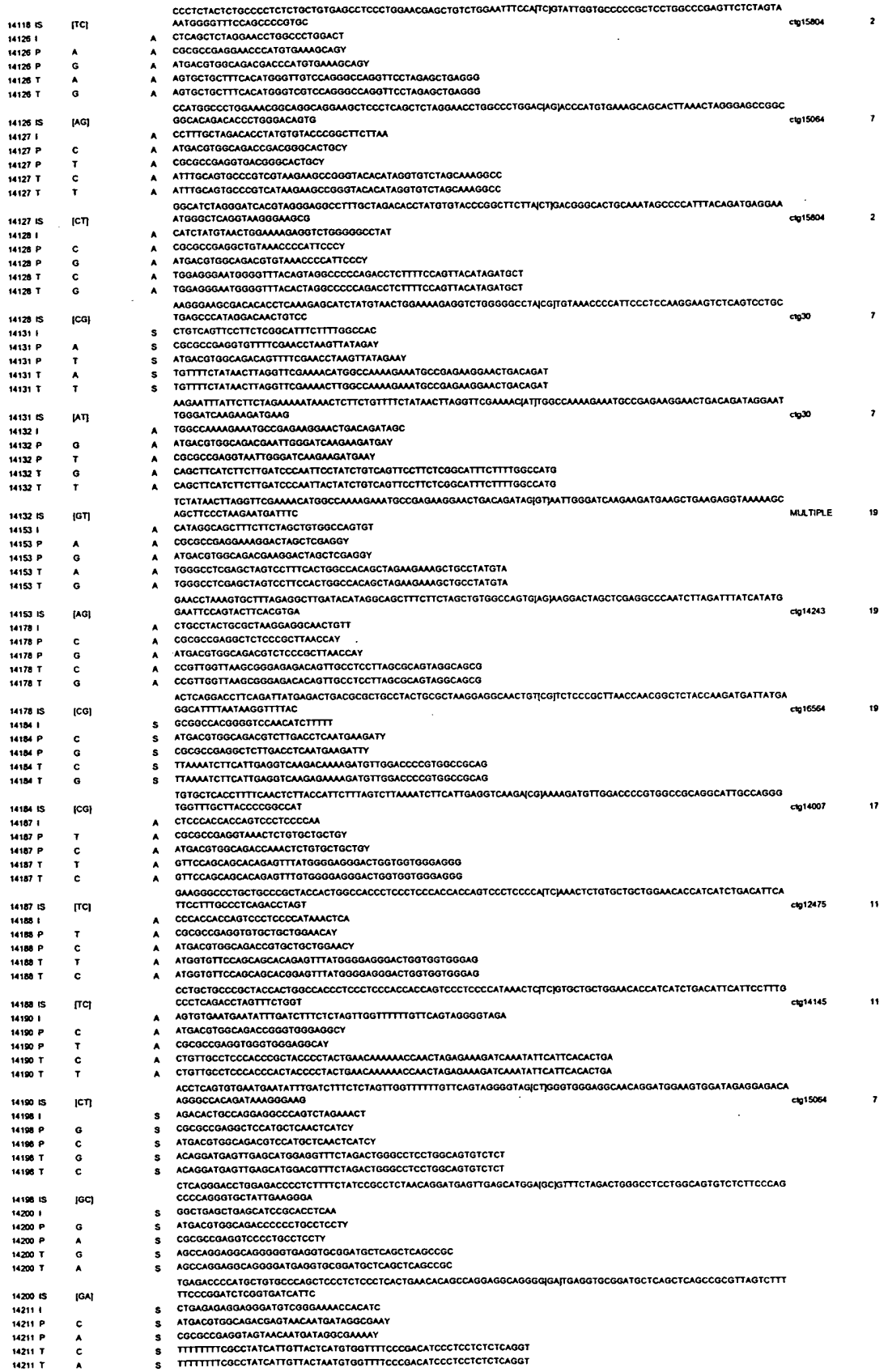
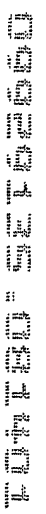

CCCTCTACTCTGCCCCTCTCTGCTGTGAGCCTCCCTGGAACGAGCTGTCTGGAATTTCCA[TC]GTATTGGTGCCCCCGCTCCTGGCCCGAGTTCTCTAGTA
14118 IS [TC] AATGGGGTTTCCAGCCCCGTGC ctg15804 2
14126 I A CTCAGCTCTAGGAACCTGGCCCTGGACT
14126 P A A CGCGCCGAGGAACCCATGTGAAAGCAGY
14126 P G A ATGACGTGGCAGACGACCCATGTGAAAGCAGY
14126 T A A AGTGCTGCTTTCACATGGGTTGTCCAGGGCCAGGTTCCTAGAGCTGAGGG
14126 T G A AGTGCTGCTTTCACATGGGTCGTCCAGGGCCAGGTTCCTAGAGCTGAGGG
CCATGGCCCTGGAAACGGCAGGCAGGAAGCTCCCTCAGCTCTAGGAACCTGGCCCTGGAC[AG]ACCCATGTGAAAGCAGCACTTAAACTAGGGAGCCGGC
14126 IS [AG] GGCACAGACACCCTGGGACAGTG ctg15064 7
14127 I A CCTTTGCTAGACACCTATGTGTACCCGGCTTCTTAA
14127 P C A ATGACGTGGCAGACCGACGGGCACTGCY
14127 P T A CGCGCCGAGGTGACGGGCACTGCY
14127 T C A ATTTGCAGTGCCCGTCGTAAGAAGCCGGGTACACATAGGTGTCTAGCAAAGGCC
14127 T T A ATTTGCAGTGCCCGTCATAAGAAGCCGGGTACACATAGGTGTCTAGCAAAGGCC
GGCATCTAGGGATCACGTAGGGAGGCCTTTGCTAGACACCTATGTGTACCCGGCTTCTTA[CT]GACGGGCACTGCAAATAGCCCCATTTACAGATGAGGAA
14127 IS [CT] ATGGGCTCAGGTAAGGGAAGCG ctg15804 2
14128 I A CATCTATGTAACTGGAAAAGAGGTCTGGGGGCCTAT
14128 P C A CGCGCCGAGGCTGTAAACCCCATTCCCY
14128 P G A ATGACGTGGCAGACGTGTAAACCCCATTCCCY
14128 T C A TGGAGGGAATGGGGTTTACAGTAGGCCCCCAGACCTCTTTTCCAGTTACATAGATGCT
14128 T G A TGGAGGGAATGGGGTTTACACTAGGCCCCCAGACCTCTTTTCCAGTTACATAGATGCT
AAGGGAAGCGACACACCTCAAAGAGCATCTATGTAACTGGAAAAGAGGTCTGGGGGCCTA[CG]TGTAAACCCCATTCCCTCCAAGGAAGTCTCAGTCCTGC
14128 IS [CG] TGAGCCCATAGGACAACTGTCC ctg30 7
14131 I S CTGTCAGTTCCTTCTCGGCATTTCTTTTGGCCAC
14131 P A S CGCGCCGAGGTGTTTTCGAACCTAAGTTATAGAY
14131 P T S ATGACGTGGCAGACAGTTTTCGAACCTAAGTTATAGAAY
14131 T A S TGTTTTCTATAACTTAGGTTCGAAAACATGGCCAAAAGAAATGCCGAGAAGGAACTGACAGAT
14131 T T S TGTTTTCTATAACTTAGGTTCGAAAACTTGGCCAAAAGAAATGCCGAGAAGGAACTGACAGAT
AAGAATTTATTCTTCTAGAAAAATAAACTCTTCTGTTTTCTATAACTTAGGTTCGAAAAC[AT]TGGCCAAAAGAAATGCCGAGAAGGAACTGACAGATAGGAAT
14131 IS [AT] TGGGATCAAGAAGATGAAG ctg30 7
14132 I A TGGCCAAAAGAAATGCCGAGAAGGAACTGACAGATAGC
14132 P G A ATGACGTGGCAGACGAATTGGGATCAAGAAGATGAY
14132 P T A CGCGCCGAGGTAATTGGGATCAAGAAGATGAAY
14132 T G A CAGCTTCATCTTCTTGATCCCAATTCCTATCTGTCAGTTCCTTCTCGGCATTTCTTTTGGCCATG
14132 T T A CAGCTTCATCTTCTTGATCCCAATTACTATCTGTCAGTTCCTTCTCGGCATTTCTTTTGGCCATG
TCTATAACTTAGGTTCGAAAACATGGCCAAAAGAAATGCCGAGAAGGAACTGACAGATAG[GT]AATTGGGATCAAGAAGATGAAGCTGAAGAGGTAAAAAGC
14132 IS [GT] AGCTTCCCTAAGAATGATTTC MULTIPLE 19
14153 I A CATAGGCAGCTTTCTTCTAGCTGTGGCCAGTGT
14153 P A A CGCGCCGAGGAAAGGACTAGCTCGAGGY
14153 P G A ATGACGTGGCAGACGAAGGACTAGCTCGAGGY
14153 T A A TGGGCCTCGAGCTAGTCCTTTCACTGGCCACAGCTAGAAGAAAGCTGCCTATGTA
14153 T G A TGGGCCTCGAGCTAGTCCTTCCACTGGCCACAGCTAGAAGAAAGCTGCCTATGTA
GAACCTAAAGTGCTTTAGAGGCTTGATACATAGGCAGCTTTCTTCTAGCTGTGGCCAGTG[AG]AAGGACTAGCTCGAGGCCCAATCTTAGATTTATCATATG
14153 IS [AG] GAATTCCAGTACTTCACGTGA ctg14243 19
14178 I A CTGCCTACTGCGCTAAGGAGGCAACTGTT
14178 P C A CGCGCCGAGGCTCTCCCGCTTAACCAY
14178 P G A ATGACGTGGCAGACGTCTCCCGCTTAACCAY
14178 T C A CCGTTGGTTAAGCGGGAGAGACAGTTGCCTCCTTAGCGCAGTAGGCAGCG
14178 T G A CCGTTGGTTAAGCGGGAGACACAGTTGCCTCCTTAGCGCAGTAGGCAGCG
ACTCAGGACCTTCAGATTATGAGACTGACGCGCTGCCTACTGCGCTAAGGAGGCAACTGT[CG]TCTCCCGCTTAACCAACGGCTCTACCAAGATGATTATGA
14178 IS [CG] GGCATTTTAATAAGGTTTTAC ctg16564 19
14184 I S GCGGCCACGGGGTCCAACATCTTTTT
14184 P C S ATGACGTGGCAGACGTCTTGACCTCAATGAAGATY
14184 P G S CGCGCCGAGGCTCTTGACCTCAATGAAGATTY
14184 T C S TTAAAATCTTCATTGAGGTCAAGACAAAAGATGTTGGACCCCGTGGCCGCAG
14184 T G S TTAAAATCTTCATTGAGGTCAAGAGAAAAGATGTTGGACCCCGTGGCCGCAG
TGTGCTCACCTTTTCAACTCTTACCATTCTTTAGTCTTAAAATCTTCATTGAGGTCAAGA[CG]AAAAGATGTTGGACCCCGTGGCCGCAGGCATTGCCAGGG
14184 IS [CG] TGGTTTGCTTACCCCGGCCAT ctg14007 17
14187 I A CTCCCACCACCAGTCCCTCCCCAA
14187 P T A CGCGCCGAGGTAAACTCTGTGCTGCTGY
14187 P C A ATGACGTGGCAGACCAAACTCTGTGCTGCTGY
14187 T T A GTTCCAGCAGCACAGAGTTTATGGGGAGGGACTGGTGGTGGGAGGG
14187 T C A GTTCCAGCAGCACAGAGTTTGTGGGGAGGGACTGGTGGTGGGAGGG
GAAGGGCCCTGCTGCCCGCTACCACTGGCCACCCTCCCTCCCACCACCAGTCCCTCCCCA[TC]AAACTCTGTGCTGCTGGAACACCATCATCTGACATTCA
14187 IS [TC] TTCCTTTGCCCTCAGACCTAGT ctg12475 11
14188 I A CCCACCACCAGTCCCTCCCCATAAACTCA
14188 P T A CGCGCCGAGGTGTGCTGCTGGAACAY
14188 P C A ATGACGTGGCAGACCGTGCTGCTGGAACY
14188 T T A ATGGTGTTCCAGCAGCACAGAGTTTATGGGGAGGGACTGGTGGTGGGAG
14188 T C A ATGGTGTTCCAGCAGCACGGAGTTTATGGGGAGGGACTGGTGGTGGGAG
CCTGCTGCCCGCTACCACTGGCCACCCTCCCTCCCACCACCAGTCCCTCCCCATAAACTC[TC]GTGCTGCTGGAACACCATCATCTGACATTCATTCCTTTG
14188 IS [TC] CCCTCAGACCTAGTTTCTGGT ctg14145 11
14190 I A AGTGTGAATGAATATTTGATCTTTCTCTAGTTGGTTTTTTGTTCAGTAGGGGTAGA
14190 P C A ATGACGTGGCAGACCGGGTGGGAGGCY
14190 P T A CGCGCCGAGGTGGGTGGGAGGCAY
14190 T C A CTGTTGCCTCCCACCCGCTACCCCTACTGAACAAAAAACCAACTAGAGAAAGATCAAATATTCATTCACACTGA
14190 T T A CTGTTGCCTCCCACCCACTACCCCTACTGAACAAAAAACCAACTAGAGAAAGATCAAATATTCATTCACACTGA
ACCTCAGTGTGAATGAATATTTGATCTTTCTCTAGTTGGTTTTTTGTTCAGTAGGGGTAG[CT]GGGTGGGAGGCAACAGGATGGAAGTGGATAGAGGAGACA
14190 IS [CT] AGGGCCACAGATAAAGGGAAG ctg15064 7
14198 I S AGACACTGCCAGGAGGCCCAGTCTAGAAACT
14198 P G S CGCGCCGAGGCTCCATGCTCAACTCATCY
14198 P C S ATGACGTGGCAGACGTCCATGCTCAACTCATCY
14198 T G S ACAGGATGAGTTGAGCATGGAGGTTTCTAGACTGGGCCTCCTGGCAGTGTCTCT
14198 T C S ACAGGATGAGTTGAGCATGGACGTTTCTAGACTGGGCCTCCTGGCAGTGTCTCT
CTCAGGGACCTGGAGACCCCTCTTTTCTATCCGCCTCTAACAGGATGAGTTGAGCATGGA[GC]GTTTCTAGACTGGGCCTCCTGGCAGTGTCTCTTCCCAG
14198 IS [GC] CCCCAGGGTGCTATTGAAGGGA
14200 I S GGCTGAGCTGAGCATCCGCACCTCAA
14200 P G S ATGACGTGGCAGACCCCCCTGCCTCCTY
14200 P A S CGCGCCGAGGTCCCCTGCCTCCTY
14200 T G S AGCCAGGAGGCAGGGGGTGAGGTGCGGATGCTCAGCTCAGCCGC
14200 T A S AGCCAGGAGGCAGGGGATGAGGTGCGGATGCTCAGCTCAGCCGC
TGAGACCCCATGCTGTGCCCAGCTCCCTCTCCCTCACTGAACACAGCCAGGAGGCAGGGG[GA]TGAGGTGCGGATGCTCAGCTCAGCCGCGTTAGTCTTT
14200 IS [GA] TTCCCGGATCTCGGTGATCATTC
14211 I S CTGAGAGAGGAGGGATGTCGGGAAAACCACATC
14211 P C S ATGACGTGGCAGACGAGTAACAATGATAGGCGAAY
14211 P A S CGCGCCGAGGTAGTAACAATGATAGGCGAAAAY
14211 T C S TTTTTTTTCGCCTATCATTGTTACTCATGTGGTTTTCCCGACATCCCTCCTCTCTCAGGT
14211 T A S TTTTTTTTCGCCTATCATTGTTACTAATGTGGTTTTCCCGACATCCCTCCTCTCTCAGGT

FIGURE 129E



				AGGGCAAGCCAGTGAGTTACTCAAGTTTGGTCATATTTTTTTTCGCCTATCATTGTTACT[CA]ATGTGGTTTTCCCGACATCCCTCCTCTCTCAGGTAATGAT			
14211	IS	[CA]		TCATTGGTGTGGCGCAAGAC	ctg22fin4	22	
14221	I		A	GCTGACCTCCTTCCTCCGAGGAAGCTTTGA			
14221	P	C	A	ATGACGTGGCAGACCTCCTGGCCAGTCTTY			
14221	P	T	A	CGCGCCGAGGTTCCTGGCCAGTCTTGY			
14221	T	C	A	TGGGCAAGACTGGCCAGGAGCAAAGCTTCCTCGGAGGAAGGAGGTCAGCAG			
14221	T	T	A	TGGGCAAGACTGGCCAGGAACAAAGCTTCCTCGGAGGAAGGAGGTCAGCAG			
				CAGGGGCTCCCTTTGAACTGGGCTTGGGGCTGCTGACCTCCTTCCTCCGAGGAAGCTTTG[CT]TCCTGGCCAGTCTTGCCCATGGGCATTGCCAGTCACAT			
14221	IS	[CT]		GATTCAACTGGAGGCCCATGTG	ctg22fin4	22	
14223	I		S	GTGTGGAATACTAATTGTGGATTGTGAATTTAAAATGGGGGA			
14223	P	A	S	CGCGCCGAGGTGATGTCTCTTTCCTCCATY			
14223	P	G	S	ATGACGTGGCAGACCGATGTCTCTTTCCTCCAY			
14223	T	A	S	CAGCATGGAGGAAAGAGACATCACCCCCATTTTAAATTCACAATCCACAATTAGTATTCCACACCT			
14223	T	G	S	CAGCATGGAGGAAAGAGACATCGCCCCCATTTTAAATTCACAATCCACAATTAGTATTCCACACCT			
				CTATGGGGAGTTATTTCTGGCCCCAGATACTCAGCTGTCAGCATGGAGGAAAGAGACATC[AG]CCCCCATTTTAAATTCACAATCCACAATTAGTATTCCACA			
14223	IS	[AG]		CCTTTATCTTTCTCTCATCA	ctg22fin4	22	
14227	I		S	CAGCAAAGGAAGCCAGGTCCAGCATAGCT			
14227	P	C	S	ATGACGTGGCAGACGCCACTGAGTCCTGTY			
14227	P	T	S	CGCGCCGAGGACCACTGAGTCCTGTCY			
14227	T	C	S	CTAGGACAGGACTCAGTGGCGCTATGCTGGACCTGGCTTCCTTTGCTGCC			
14227	T	T	S	CTAGGACAGGACTCAGTGGTGCTATGCTGGACCTGGCTTCCTTTGCTGCC			
				TTCATTTCCTTAATGATTTGAAAAGTTATTTTCAAAGGTTCCTAGGACAGGACTCAGTGG[CT]GCTATGCTGGACCTGGCTTCCTTTGCTGCCGAAGTACAGA			
14227	IS	[CT]		CCCTCTGCAGCATAACAGAA	ctg22fin4	22	
14232	I		A	CAAAGGCCCTGCTCAAAGGCCAGCTT			
14232	P	A	A	CGCGCCGAGGAAGCAGAGTTGGCGTY			
14232	P	G	A	ATGACGTGGCAGACGAGCAGAGTTGGCGTY			
14232	T	A	A	ACTCACGCCAACTCTGCTTAGCTGGCCTTTGAGCAGGGCCTTTGCC			
14232	T	G	A	ACTCACGCCAACTCTGCTCAGCTGGCCTTTGAGCAGGGCCTTTGCC			
				ACCTGCCTACAGACCCTGGCCCAGAGGAGCACAGGCAAAGGCCCTGCTCAAAGGCCAGCT[AG]AGCAGAGTTGGCGTGAGTGTGTCCCATTGACATGGGG			
14232	IS	[AG]		CCAGTCCTCATTCATCACTGGCT	ctg22fin4	22	
14242	I		A	CCGGAAATGGGACCTTCTGGCTGCCTAT			
14242	P	C	A	CGCGCCGAGGCAGTTCAACCCTTTCAGGY			
14242	P	G	A	ATGACGTGGCAGACGAGTTCAACCCTTTCAGGY			
14242	T	C	A	CCCTCCTGAAAGGGTTGAACTGTAGGCAGCCAGAAGGTCCCATTTCCGGTC			
14242	T	G	A	CCCTCCTGAAAGGGTTGAACTCTAGGCAGCCAGAAGGTCCCATTTCCGGTC			
				CTTGGGATGATGATGAGCCATGGGGCCCATGGACCGGAAATGGGACCTTCTGGCTGCCTA[CG]AGTTCAACCCTTTCAGGAGGGCACCTATCTGGCCACC			
14242	IS	[CG]		ATACACCTGCCATACCTGCAAGG	ctg22fin4	22	TAPBP
14243	I		S	CCCTCTTATCCATCATCCCTCCCCCTATTACGGTCT			
14243	P	G	S	ATGACGTGGCAGACCCCACAATCCAGTGCY			
14243	P	T	S	CGCGCCGAGGACCACAATCCAGTGCCY			
14243	T	G	S	GGTGGGCACTGGATTGTGGGGACCGTAATAGGGGGAGGGATGATGGATAAGAGGGTG			
14243	T	T	S	GGTGGGCACTGGATTGTGGTGACCGTAATAGGGGGAGGGATGATGGATAAGAGGGTG			
				GTGTACAGTGAGTTGGGGGACAGAGGTCTCCAGGGGTAGAGGGTGGGCACTGGATTGTGG[GT]GACCGTAATAGGGGGAGGGATGATGGATAAGAGGGT			
14243	IS	[GT]		GCCTGGGCAAGTAAGTAGAGATAG	ctg22fin3	22	
14253	I		S	GCGAGACCCAAACCATGCACTTCTATTACCAAAATACAACTAT			
14253	P	T	S	CGCGCCGAGGAAAGGCACACTCTCCCY			
14253	P	G	S	ATGACGTGGCAGACCAAGGCACACTCTCCCY			
14253	T	T	S	AAGTGGGAGAGTGTGCCTTTTAGTTGTATTTTGGTAATAGAAGTGCATGGTTTGGGTCTCGCCC			
14253	T	G	S	AAGTGGGAGAGTGTGCCTTGTAGTTGTATTTTGGTAATAGAAGTGCATGGTTTGGGTCTCGCCC			
				TTTCTGTCTGATTTCACTCAGTGGGTTCATCTTTTCTCTCTAAGTGGGAGAGTGTGCCTT[TG]TAGTTGTATTTTGGTAATAGAAGTGCATGGTTTGGGTCTC			
14253	IS	[TG]		GCCCTATTTTGTTTTCTATT	ctg22fin4	22	
14260	I		S	ACACCTTGGGCCTCTCAGTGGGACCC			
14260	P	C	S	ATGACGTGGCAGACGTCCACACAGCCCAY			
14260	P	A	S	CGCGCCGAGGTTCCACACAGCCCAGY			
14260	T	C	S	CCACCTGGGCTGTGTGGACGGTCCCACTGAGAGGCCCAAGGTGTGT			
14260	T	A	S	CCACCTGGGCTGTGTGGAAGGTCCCACTGAGAGGCCCAAGGTGTGT			
				TGGAAGAGGGAGAGAGAGGACGTGCCCACCTCCCTTTCAGAGCCACCTGGGCTGTGTGGA[CA]GGTCCCACTGAGAGGCCCAAGGTGTGTAGACAGAGA			
14260	IS	[CA]		AAGCAGCAGAGAGCCGCTGCTCCT	MULTIPLE	22	
14284	I		S	AGAGGGCTGCCCCAAAAGAGGGTTTGAAGT			
14284	P	C	S	ATGACGTGGCAGACGCAGCTGCTCCCAY			
14284	P	G	S	CGCGCCGAGGCCAGCTGCTCCCAAY			
14284	T	C	S	CTTTTTGGGAGCAGCTGCCTTCAAACCCTCTTTTGGGGCAGCCCTCTTC			
14284	T	G	S	CTTTTTGGGAGCAGCTGGCTTCAAACCCTCTTTTGGGGCAGCCCTCTTC			
				CTATCCTCTTCAGATCCTCTTACGGGATTGCCTTCTTCAGACTCTTTTTGGGAGCAGCTG[CG]CTTCAAACCCTCTTTTGGGGCAGCCCTCTTCAGATTCTTT			
14284	IS	[CG]		TTCAGGGCAGCCTTCTTCAG	ctg22fin4	22	HTATSF1
14285	I		A	TGTGGGTGTGTCTTTCCCCCCAGCAAAGT			
14285	P	G	A	ATGACGTGGCAGACGGAGGGGCCCTGY			
14285	P	C	A	CGCGCCGAGGCGAGGGGCCCTGY			
14285	T	G	A	AATCCAGGGCCCCTCCCTTTGCTGGGGGGAAAGACACACCCACACG			
14285	T	C	A	AATCCAGGGCCCCTCGCTTTGCTGGGGGGAAAGACACACCCACACG			
				GGGGTGGTGGAAGGGCCTGTGGGTAAAGGGCGTGTGGGTGTGTCTTTCCCCCCAGCAAAG[GC]GAGGGGCCCTGGATTGAGCCCAGGGGCCCTTGGTG			
14285	IS	[GC]		TTCCCCACTTCTCCCCAACCATTAT	ctg22fin4	22	
14286	I		A	GGAAGGGTACAATGTCGTCCGCGCCTCT			
14286	P	G	A	ATGACGTGGCAGACGAGGGCCATGATTGGAY			
14286	P	A	A	CGCGCCGAGGAAGGGCCATGATTGGAY			
14286	T	G	A	TGTGTCCAATCATGGCCCTCGAGGCGCGGACGACATTGTACCCTTCCCA			
14286	T	A	A	TGTGTCCAATCATGGCCCTTGAGGCGCGGACGACATTGTACCCTTCCCA			
				TCTCCCCAACCATTATCTCTCGCTGCAGGTCTGGGAAGGGTACAATGTCGTCCGCGCCTC[GA]AGGGCCATGATTGGACACACCGACTCGGCTGAGGCTG			
14286	IS	[GA]		CCCCAGGAACCATAAGGGGTGAC	ctg22fin8	22	
14288	I		A	GCAAGCTGCCGAGAGGACAAGGGGTA			
14288	P	T	A	CGCGCCGAGGTTGGCTGGAGGAAAGTY			
14288	P	C	A	ATGACGTGGCAGACCTGGCTGGAGGAAAGTY			
14288	T	T	A	CCAGACTTTCCTCCAGCCAAACCCCTTGTCCTCTCGGCAGCTTGCAG			
14288	T	C	A	CCAGACTTTCCTCCAGCCAGACCCCTTGTCCTCTCGGCAGCTTGCAG			
				TGCAGAAGGGGCTGGATGGTCACGCTCCGTGGCCTGCAAGCTGCCGAGAGGACAAGGGGT[TC]TGGCTGGAGGAAAGTCTGGGGATCTGGGGAGGGGC			
14288	IS	[TC]		AGGGCCATCCCTCCAGCCCTTGTGC	ctg22fin4	22	
14299	I		S	CTGCCGCCTCCTGACTGCCCCC			
14299	P	A	S	CGCGCCGAGGTATCCCCGCAGCCY			
14299	P	C	S	ATGACGTGGCAGACGATCCCCGCAGCCY			
14299	T	A	S	CAGGGGCTGCGGGGATAGGGGCAGTCAGGAGGCGGCAGTG			
14299	T	C	S	CAGGGGCTGCGGGGATCGGGGCAGTCAGGAGGCGGCAGTG			
				GGGGCCAGGTACCCTGGGAGAGAGGAGGGAAATGAAATCCGGCACAGGGGCTGCGGGGAT[AC]GGGGCAGTCAGGAGGCGGCAGTGCGGTGCAAGGG			
14299	IS	[AC]		CCCCCCCACGCGGCCAGCTGTGGAAC	ctg22fin4	22	
14317	I		A	GCACTCATGGCTGTAATCCACTCACCAAGCCT			
14317	P	G	A	ATGACGTGGCAGACGCAACACTAGTTCAAAGGTY			
14317	P	A	A	CGCGCCGAGGACAACACTAGTTCAAAGGTATTY			
14317	T	G	A	GGATAATACCTTTGAACTAGTGTTGCGGCTTGGTGAGTGGATTACAGCCATGAGTGCAG			
14317	T	A	A	GGATAATACCTTTGAACTAGTGTTGTGGCTTGGTGAGTGGATTACAGCCATGAGTGCAG			

FIGURE 129E

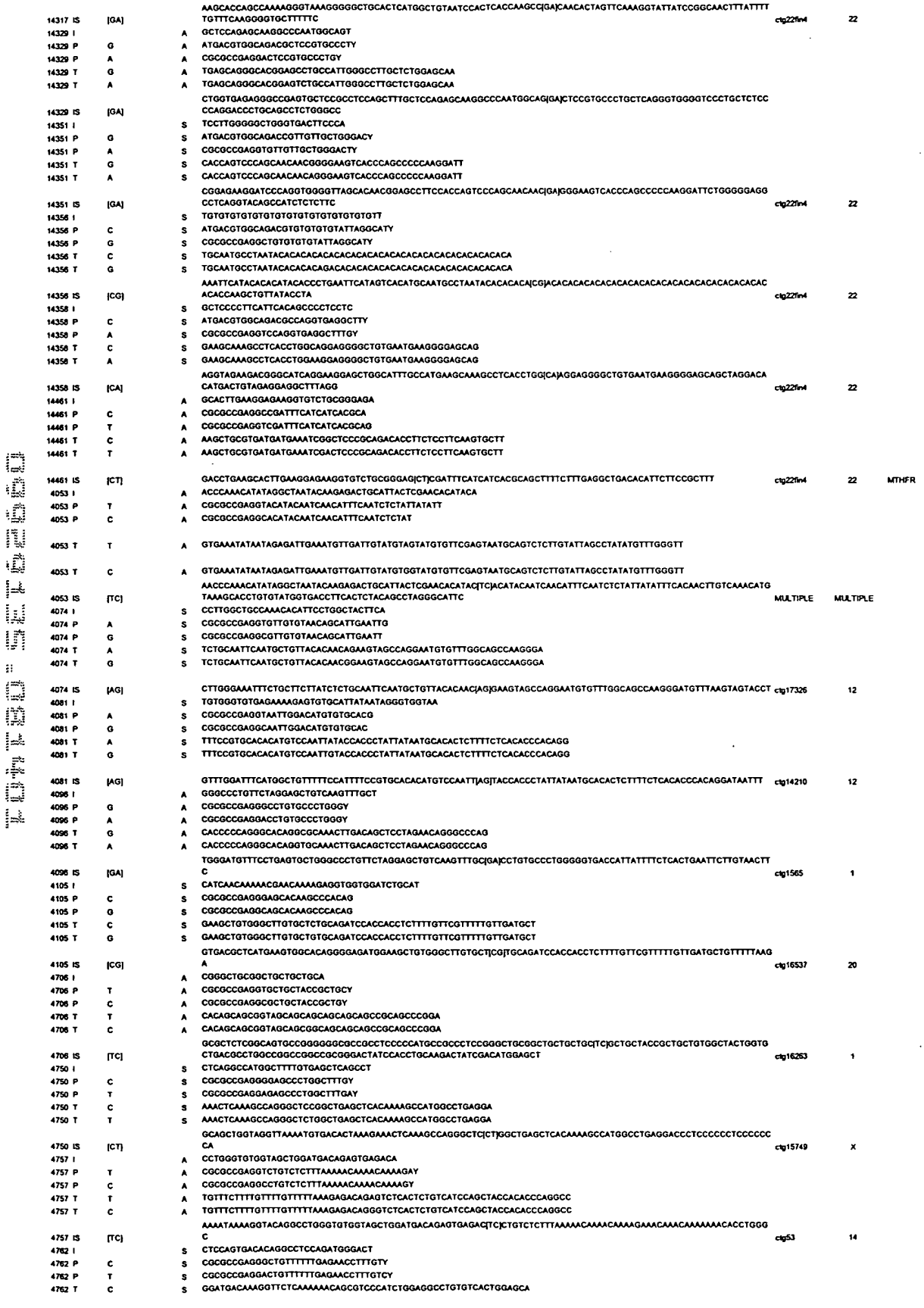

AAGCACCAGCCAAAAGGGTAAAGGGGGCTGCACTCATGGCTGTAATCCACTCACCAAGCC[GA]CAACACTAGTTCAAAGGTATTATCCGGCAACTTTATTTT
14317 IS [GA] TGTTTCAAGGGGTGCTTTTTC ctg22fin4 22
14329 I A GCTCCAGAGCAAGGCCCAATGGCAGT
14329 P G A ATGACGTGGCAGACGCTCCGTGCCCTY
14329 P A A CGCGCCGAGGACTCCGTGCCCTGY
14329 T G A TGAGCAGGGCACGGAGCCTGCCATTGGGCCTTGCTCTGGAGCAA
14329 T A A TGAGCAGGGCACGGAGTCTGCCATTGGGCCTTGCTCTGGAGCAA
CTGGTGAGAGGGCCGAGTGCTCCGCCTCCAGCTTTGCTCCAGAGCAAGGCCCAATGGCAG[GA]CTCCGTGCCCTGCTCAGGGTGGGGTCCCTGCTCTCC
14329 IS [GA] CCAGGACCCTGCAGCCTCTGGGCC
14351 I S TCCTTGGGGGCTGGGTGACTTCCCA
14351 P G S ATGACGTGGCAGACCGTTGTTGCTGGGACY
14351 P A S CGCGCCGAGGTGTTGTTGCTGGGACTY
14351 T G S CACCAGTCCCAGCAACAACGGGGAAGTCACCCAGCCCCCAAGGATT
14351 T A S CACCAGTCCCAGCAACAACAGGGAAGTCACCCAGCCCCCAAGGATT
CGGAGAAGGATCCCAGGTGGGGTTAGCACAACGGAGCCTTCCACCAGTCCCAGCAACAAC[GA]GGGAAGTCACCCAGCCCCCAAGGATTCTGGGGGAGG
14351 IS [GA] CCTCAGGTACAGCCATCTCTCTTC ctg22fin4 22
14356 I S TGTGTGTGTGTGTGTGTGTGTGTGTGTT
14356 P C S ATGACGTGGCAGACGTGTGTGTGTATTAGGCATY
14356 P G S CGCGCCGAGGCTGTGTGTGTATTAGGCATY
14356 T C S TGCAATGCCTAATACACACACACACACACACACACACACACACACACACACACA
14356 T G S TGCAATGCCTAATACACACACAGACACACACACACACACACACACACACACA
AAATTCATACACACATACACCCTGAATTCATAGTCACATGCAATGCCTAATACACACACA[CG]ACACACACACACACACACACACACACACACACACACAC
14356 IS [CG] ACACCAAGCTGTTATACCTA ctg22fin4 22
14358 I S GCTCCCCTTCATTCACAGCCCCTCCTC
14358 P C S ATGACGTGGCAGACGCCAGGTGAGGCTTY
14358 P A S CGCGCCGAGGTCCAGGTGAGGCTTTGY
14358 T C S GAAGCAAAGCCTCACCTGGCAGGAGGGGCTGTGAATGAAGGGGAGCAG
14358 T A S GAAGCAAAGCCTCACCTGGAAGGAGGGGCTGTGAATGAAGGGGAGCAG
AGGTAGAAGACGGGCATCAGGAAGGAGCTGGCATTTGCCATGAAGCAAAGCCTCACCTGG[CA]AGGAGGGGCTGTGAATGAAGGGGAGCAGCTAGGACA
14358 IS [CA] CATGACTGTAGAGGAGGCTTTAGG ctg22fin4 22
14461 I A GCACTTGAAGGAGAAGGTGTCTGCGGGAGA
14461 P C A CGCGCCGAGGCCGATTTCATCATCACGCA
14461 P T A CGCGCCGAGGTCGATTTCATCATCACGCAG
14461 T C A AAGCTGCGTGATGATGAAATCGGCTCCCGCAGACACCTTCTCCTTCAAGTGCTT
14461 T T A AAGCTGCGTGATGATGAAATCGACTCCCGCAGACACCTTCTCCTTCAAGTGCTT
14461 IS [CT] GACCTGAAGCACTTGAAGGAGAAGGTGTCTGCGGGAG[CT]CGATTTCATCATCACGCAGCTTTTCTTTGAGGCTGACACATTCTTCCGCTTT ctg22fin4 22 MTHFR
4053 I A ACCCAAACATATAGGCTAATACAAGAGACTGCATTACTCGAACACATACA
4053 P T A CGCGCCGAGGTACATACAATCAACATTTCAATCTCTATTATATT
4053 P C A CGCGCCGAGGCACATACAATCAACATTTCAATCTCTAT
4053 T T A GTGAAATATAATAGAGATTGAAATGTTGATTGTATGTAGTATGTGTTCGAGTAATGCAGTCTCTTGTATTAGCCTATATGTTTGGGTT
4053 T C A GTGAAATATAATAGAGATTGAAATGTTGATTGTATGTGGTATGTGTTCGAGTAATGCAGTCTCTTGTATTAGCCTATATGTTTGGGTT
AACCCAAACATATAGGCTAATACAAGAGACTGCATTACTCGAACACATAC[TC]ACATACAATCAACATTTCAATCTCTATTATATTTCACAACTTGTCAAACATG
4053 IS [TC] TAAAGCACCTGTGTATGGTGACCTTCACTCTACAGCCTAGGGCATTC MULTIPLE MULTIPLE
4074 I S CCTTGGCTGCCAAACACATTCCTGGCTACTTCA
4074 P A S CGCGCCGAGGTGTTGTGTAACAGCATTGAATTG
4074 P G S CGCGCCGAGGCGTTGTGTAACAGCATTGAATT
4074 T A S TCTGCAATTCAATGCTGTTACACAACAGAAGTAGCCAGGAATGTGTTTGGCAGCCAAGGGA
4074 T G S TCTGCAATTCAATGCTGTTACACAACGGAAGTAGCCAGGAATGTGTTTGGCAGCCAAGGGA
CTTGGGAAATTTCTGCTTCTTATCTCTGCAATTCAATGCTGTTACACAAC[AG]GAAGTAGCCAGGAATGTGTTTGGCAGCCAAGGGATGTTTAAGTAGTACCT
4074 IS [AG] ctg17326 12
4081 I S TGTGGGTGTGAGAAAAGAGTGTGCATTATAATAGGGTGGTAA
4081 P A S CGCGCCGAGGTAATTGGACATGTGTGCACG
4081 P G S CGCGCCGAGGCAATTGGACATGTGTGCAC
4081 T A S TTTCCGTGCACACATGTCCAATTATACCACCCTATTATAATGCACACTCTTTTCTCACACCCACAGG
4081 T G S TTTCCGTGCACACATGTCCAATTGTACCACCCTATTATAATGCACACTCTTTTCTCACACCCACAGG
GTTTGGATTTCATGGCTGTTTTTCCATTTTCCGTGCACACATGTCCAATT[AG]TACCACCCTATTATAATGCACACTCTTTTCTCACACCCACAGGATAATTT
4081 IS [AG] ctg14210 12
4096 I A GGGCCCTGTTCTAGGAGCTGTCAAGTTTGCT
4096 P G A CGCGCCGAGGGCCTGTGCCCTGGGY
4096 P A A CGCGCCGAGGACCTGTGCCCTGGGY
4096 T G A CACCCCCAGGGCACAGGCGCAAACTTGACAGCTCCTAGAACAGGGCCCAG
4096 T A A CACCCCCAGGGCACAGGTGCAAACTTGACAGCTCCTAGAACAGGGCCCAG
TGGGATGTTTCCTGAGTGCTGGGCCCTGTTCTAGGAGCTGTCAAGTTTGC[GA]CCTGTGCCCTGGGGGTGACCATTATTTTCTCACTGAATTCTTGTAACTT
4096 IS [GA] C ctg1565 1
4105 I S CATCAACAAAAACGAACAAAAGAGGTGGTGGATCTGCAT
4105 P C S CGCGCCGAGGGAGCACAAGCCCACAG
4105 P G S CGCGCCGAGGCAGCACAAGCCCACAG
4105 T C S GAAGCTGTGGGCTTGTGCTCTGCAGATCCACCACCTCTTTTGTTCGTTTTTGTTGATGCT
4105 T G S GAAGCTGTGGGCTTGTGCTGTGCAGATCCACCACCTCTTTTGTTCGTTTTTGTTGATGCT
GTGACGCTCATGAAGTGGCACAGGGGAGATGGAAGCTGTGGGCTTGTGCT[CG]TGCAGATCCACCACCTCTTTTGTTCGTTTTTGTTGATGCTGTTTTTAAG
4105 IS [CG] A ctg16537 20
4706 I A CGGGCTGCGGCTGCTGCTGCA
4706 P T A CGCGCCGAGGTGCTGCTACCGCTGCY
4706 P C A CGCGCCGAGGCGCTGCTACCGCTGY
4706 T T A CACAGCAGCGGTAGCAGCAGCAGCAGCCGCAGCCCGGA
4706 T C A CACAGCAGCGGTAGCAGCGGCAGCAGCAGCCGCAGCCCGGA
GCGCTCTCGGCAGTGCCGGGGGGCGCCGCCTCCCCCATGCCGCCCTCCGGGCTGCGGCTGCTGCTGC[TC]GCTGCTACCGCTGCTGTGGCTACTGGTG
4706 IS [TC] CTGACGCCTGGCCGGCCGGCCGCGGGACTATCCACCTGCAAGACTATCGACATGGAGCT ctg16263 1
4750 I S CTCAGGCCATGGCTTTTGTGAGCTCAGCCT
4750 P C S CGCGCCGAGGGGAGCCCTGGCTTTGY
4750 P T S CGCGCCGAGGAGAGCCCTGGCTTTGAY
4750 T C S AAACTCAAAGCCAGGGCTCCGGCTGAGCTCACAAAAGCCATGGCCTGAGGA
4750 T T S AAACTCAAAGCCAGGGCTCTGGCTGAGCTCACAAAAGCCATGGCCTGAGGA
GCAGCTGGTAGGTTAAAATGTGACACTAAAGAAACTCAAAGCCAGGGCTC[CT]GGCTGAGCTCACAAAAGCCATGGCCTGAGGACCCTCCCCCCTCCCCCC
4750 IS [CT] CA ctg15749 X
4757 I A CCTGGGTGTGGTAGCTGGATGACAGAGTGAGACA
4757 P T A CGCGCCGAGGTCTGTCTCTTTAAAAACAAAACAAAAGAY
4757 P C A CGCGCCGAGGCCTGTCTCTTTAAAAACAAAACAAAAGY
4757 T T A TGTTTCTTTTGTTTTGTTTTTAAAGAGACAGAGTCTCACTCTGTCATCCAGCTACCACACCCAGGCC
4757 T C A TGTTTCTTTTGTTTTGTTTTTAAAGAGACAGGGTCTCACTCTGTCATCCAGCTACCACACCCAGGCC
AAAATAAAAGGTACAGGCCTGGGTGTGGTAGCTGGATGACAGAGTGAGAC[TC]CTGTCTCTTTAAAAACAAAACAAAAGAAACAAACAAAAAAACACCTGGG
4757 IS [TC] C ctg53 14
4762 I S CTCCAGTGACACAGGCCTCCAGATGGGACT
4762 P C S CGCGCCGAGGGCTGTTTTTTGAGAACCTTTGTY
4762 P T S CGCGCCGAGGACTGTTTTTTGAGAACCTTTGTCY
4762 T C S GGATGACAAAGGTTCTCAAAAAACAGCGTCCCATCTGGAGGCCTGTGTCACTGGAGCA

FIGURE 129E

4762	T	T	S	GGATGACAAAGGTTCTCAAAAAACAGTGTCCCATCTGGAGGCCTGTGTCACTGGAGCA		
4762	IS	[CT]		TGAAGATTAAAGAGGGGAGGGGCAGGATGACAAAGGTTCTCAAAAAACAG[CT]GTCCCATCTGGAGGCCTGTGTCACTGGAGCACTTGTATTAATAGAAACT	ctg13516	6
4762	I		A	GGCGAGCTCAGAGTGGGGGCCCT		
6959	P	INS	A	CGCGCCGAGGCCGGCGTCCCCGY		
6959	P	DEL	A	CGCGCCGAGGCGGCGTCCCCGGY		
6959	T	INS	A	AAGGCCGGGGACGCCGGGGGCCCCCACTCTGAGCTCGCCGT		
6959	T	DEL	A	AAGGCCGGGGACGCCGGGGCCCCCACTCTGAGCTCGCCGT		
6959	IS	[-C]		CCTCTCGCTTGCAGAAAAAAAAGAAACGGCGAGCTCAGAGTGGGGGCCCC[-C]GGCGTCCCCGGCCTTGCACGTGCGCGCCCGGATGCCTAGCCCGGGCCGCC	ctg14333	11
6991	I		A	CTGATCTCAGCTCTTTCTATTCCTGCCCAGTTGGGATCA		
6991	P	T	A	CGCGCCGAGGTAGGGTCTTGCCCATTG		
6991	P	C	A	CGCGCCGAGGCAGGGTCTTGCCCATTG		
6991	T	T	A	AAGGCAATGGGCAAGACCCTAGATCCCAACTGGGCAGGAATAGAAAGAGCTGAGATCAGAA		
6991	T	C	A	AAGGCAATGGGCAAGACCCTGGATCCCAACTGGGCAGGAATAGAAAGAGCTGAGATCAGAA		
6991	IS	[TC]		CCCATTGCCTTTCTGATCTCAGCTCTTTCTATTCCTGCCCAGTTGGGATC[TC]AGGGTCTTGCCCATTGCCTTTCTGATCTCAGCTCTTTCTATTCCTGCCCA		
7033	I		S	TCTGGTGACCCCATCCCGGAAGCCTTA		
7033	P	G	S	CGCGCCGAGGCCGGAAAGCGCTTCCY		
7033	P	A	S	CGCGCCGAGGTCGGAAAGCGCTTCCY		
7033	T	G	S	AGGGGGAAGCGCTTTCCGGAAGGCTTCCGGGATGGGGTCACCAGAGT		
7033	T	A	S	AGGGGGAAGCGCTTTCCGAAAGGCTTCCGGGATGGGGTCACCAGAGT		
7033	IS	[GA]		GGAGAAATAACCCCAACTCGATGGGGTGGAAAAGGGGGAAGCGCTTTCCG[GA]AAGGCTTCCGGGATGGGGTCACCAGAGTCAGAGGAAGGAGTAACAGT AGA	ctg14326	3
7124	I		S	GCCATGCAGGCAGAGCCTGAAACTCGTA		
7124	P	A	S	CGCGCCGAGGTCCCAGCAGAAGAAGGGY		
7124	P	G	S	CGCGCCGAGGCCCCAGCAGAAGAAGGGY		
7124	T	A	S	AACACCCTTCTTCTGCTGGGAACGAGTTTCAGGCTCTGCCTGCATGGCCA		
7124	T	G	S	AACACCCTTCTTCTGCTGGGGACGAGTTTCAGGCTCTGCCTGCATGGCCA		
7124	IS	[AG]		AGACAGGAAACACCACTCTGCTCTTGAGTAAACACCCTTCTTCTGCTGGG[AG]ACGAGTTTCAGGCTCTGCCTGCATGGCCACAAGCCTGGAAAAACGGTA TG	ctg15907	6
7196	I		A	GGACAGCGAGGCTACCTCCTGCCCA		
7196	P	T	A	CGCGCCGAGGTCTGAACTTCTGCCAGCA		
7196	P	C	A	CGCGCCGAGGCCTGAACTTCTGCCAGC		
7196	T	T	A	CCGATGCTGGCAGAAGTTCAGAGGGCAGGAGGTAGCCTCGCTGTCCAA		
7196	T	C	A	CCGATGCTGGCAGAAGTTCAGGGGGCAGGAGGTAGCCTCGCTGTCCAA		
7196	IS	[TC]		GGCCTACCCGGTGCGGCAGCCTTGTTGGACAGCGAGGCTACCTCCTGCCC[TC]CTGAACTTCTGCCAGCATCGGGACCACCCCGGTACCCACAGCCGGAC CCG	ctg13446	1
7200	I		A	CATCTGTTCCCTGCACATGGAATGTTTGTTGAATGAATAAATGATGGTTAA		
7200	P	C	A	CGCGCCGAGGCGAGATGGGTCTGCATTG		
7200	P	T	A	CGCGCCGAGGTGAGATGGGTCTGCATTG		
7200	T	C	A	CCTGCAATGCAGACCCATCTCGTAACCATCATTTATTCATTCAACAAACATTCCATGTGCAGGGAACAGATG		
7200	T	T	A	CCTGCAATGCAGACCCATCTCATAACCATCATTTATTCATTCAACAAACATTCCATGTGCAGGGAACAGATG		
7200	IS	[CT]		CATCTGTTCCCTGCACATGGAATGTTTGTTGAATGAATAAATGATGGTTA[CT]GAGATGGGTCTGCATTGCAGGGAGGTTGGTGAATTTCCCCCCAGGGACT T	ctg13446	1
7213	I		A	TAATAAATTTGTCGTGATAAAATTCCCTTTTTCGGTGTCTCATAACACTCT		
7213	P	G	A	CGCGCCGAGGGTCCTCTTCAGCTCCACA		
7213	P	A	A	CGCGCCGAGGATCCTCTTCAGCTCCACA		
7213	T	G	A	ACAGTGTGGAGCTGAAGAGGACGAGTGTTATGAGACACCGAAAAAGGGAATTTTATCACGACAAATTTATTA		
7213	T	A	A	ACAGTGTGGAGCTGAAGAGGATGAGTGTTATGAGACACCGAAAAAGGGAATTTTATCACGACAAATTTATTA		
7213	IS	[GA]		TAATAAATTTGTCGTGATAAAATTCCCTTTTTCGGTGTCTCATAACACTC[GA]TCCTCTTCAGCTCCACACTGTCTGATGCCAGCACAGCCCCGCCAGCTCTC	ctg15907	6
7221	I		S	ACAAGGTCAGGAGGGCCTTTCCCTGGGT		
7221	P	G	S	CGCGCCGAGGCCCCACACAGACCTCT		
7221	P	C	S	CGCGCCGAGGGCCCACACAGACCTCT		
7221	T	G	S	CGTGAGAGGTCTGTGTGGGGCCCAGGGAAAGGCCCTCCTGACCTTGTTT		
7221	T	C	S	CGTGAGAGGTCTGTGTGGGCCCCAGGGAAAGGCCCTCCTGACCTTGTTT		
7221	IS	[GC]		AGATGGCTGGGAGCAGGGGTGGACTCTCCCCCGTGAGAGGTCTGTGTGGG[GC]CCCAGGGAAAGGCCCTCCTGACCTTGTTTGTGATAGTGGGCTCCAT TCCC	ctg15907	6
7236	I		S	AAATGGAAGCTTAATTCCTCCCTGATTTCACACATAGATAAAAATTAATGC		
7236	P	A	S	CGCGCCGAGGTGAGAGAGGCGTGAAGAC		
7236	P	C	S	CGCGCCGAGGGGAGAGAGGCGTGAAGA		
7236	T	A	S	GTTGGTCTTCACGCCTCTCTCACATTAATTTTTATCTATGTGTGAAATCAGGGAGGAATTAAGCTTCCATTT		
7236	T	C	S	GTTGGTCTTCACGCCTCTCTCCCATTAATTTTTATCTATGTGTGAAATCAGGGAGGAATTAAGCTTCCATTT		
7236	IS	[AC]		ACAAAGATAAAATTCCAAACCATAGGGCAGTTGGTCTTCACGCCTCTCTC[AC]CATTAATTTTTATCTATGTGTGAAATCAGGGAGGAATTAAGCTTCCATTT	ctg17333	X
7315	I		S	TCCATTGTTTTGAAGCGAGTCCTGGCCATGGAATTCA		
7315	P	G	S	CGCGCCGAGGCGTTCGTGCACCCG		
7315	P	A	S	CGCGCCGAGGTGTTCGTGCACCCGT		
7315	T	G	S	ACTGACGGGTGCACGAACGGAATTCCATGGCCAGGACTCGCTTCAAAACAATGGAAT		
7315	T	A	S	ACTGACGGGTGCACGAACAGAATTCCATGGCCAGGACTCGCTTCAAAACAATGGAAT		
7315	IS	[GA]		AAAATTCAGGCTGCTTTTCAGAACCTTTACACACTGACGGGTGCACGAAC[GA]GAATTCCATGGCCAGGACTCGCTTCAAAACAATGGAATGGAAGGAATGG G	ctg15907	6
7351	I		A	CTCTGGTCTCTCTGGTGATATGGGGCCCTGC		
7351	P	T	A	CGCGCCGAGGTACATCTCCAGCCCAGC		
7351	P	G	A	CGCGCCGAGGGACATCTCCAGCCCAGC		
7351	T	T	A	CCCTGCTGGGCTGGAGATGTACAGGGCCCCATATCACCAGAGAGACCAGAGCT		
7351	T	G	A	CCCTGCTGGGCTGGAGATGTCCAGGGCCCCATATCACCAGAGAGACCAGAGCT		
7351	IS	[TG]		CTGCTTGGTCCTGTGGTGAGCTCTGGTCTCTCTGGTGATATGGGGCCCTG[TG]ACATCTCCAGCCCAGCAGGGAAGTCTCCTGATCTGTGGCCCAGGACA TCA	ctg22fin4	22
7352	I		A	TTCGAAATACTAATCATTGTCCTCTAGGGCAAAAAAACTTTTTTTTTCAACA		
7352	P	C	A	CGCGCCGAGGCCTGCATTAGTTAAAATATACTGGTAC		
7352	P	T	A	CGCGCCGAGGTCTGCATTAGTTAAAATATACTGGTACA		
7352	T	C	A	AAGCTGTACCAGTATATTTTAACTAATGCAGGGTTGAAAAAAAAGTTTTTTTGCCCTAGAGGACAATGATTAGTATTTCGAA		
7352	T	T	A	AAGCTGTACCAGTATATTTTAACTAATGCAGAGTTGAAAAAAAAGTTTTTTTGCCCTAGAGGACAATGATTAGTATTTCGAA		
7352	IS	[CT]		TTCGAAATACTAATCATTGTCCTCTAGGGCAAAAAAACTTTTTTTTTCAAC[CT]CTGCATTAGTTAAAATATACTGGTACAGCTTTTTTGGATGGTGGTTTGGA	ctg22fin4	22
7373	I		A	GCCCTCCTTGGTCTGTCCGCTGCTGAA		
7373	P	T	A	CGCGCCGAGGTCTCCTGGCCTCTCCT		
7373	P	C	A	CGCGCCGAGGCCTCCTGGCCTCTCC		
7373	T	T	A	GGAGAGGAGAGGCCAGGAGATCAGCAGCGGACAGACCAAGGAGGGCCT		
7373	T	C	A	GGAGAGGAGAGGCCAGGAGGTCAGCAGCGGACAGACCAAGGAGGGCCT		
7373	IS	[TC]		AAATTCCATGGCTTGACTTATAAGGCCCTCCTTGGTCTGTCCGCTGCTGA[TC]CTCCTGGCCTCTCCTCTCCTGTTTCTCCCCTCCTGCTTCATCTTGAGCC A	ctg22fin6	22
7493	I		S	CTATGCCGAGGCCCACCGCCGA		
7493	P	G	S	CGCGCCGAGGCCATGGCCGCCTG		
7493	P	A	S	CGCGCCGAGGTCATGGCCGCCTGC		
7493	T	G	S	CAGGGCAGGCGGCCATGGCGGCGGTGGGCCTCGGCATAGCC		
7493	T	A	S	CAGGGCAGGCGGCCATGACGGCGGTGGGCCTCGGCATAGCC		

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FIGURE 129E

7493	IS	[GA]		AGCAGCGCGATGGTGGGCTGGAACAGCTGCGCCCAGGGCAGGCGGCCATG[GA]CGGCGGTGGGCCTCGGCATAGCCACGGAGCTCCCCGGGCACCCC GATCCA	ctg15907	6	GGTLA1
7526	I		A	GCATGTTACAACTGCCCCTCCTGCCAGACC			
7526	P	G	A	CGCGCCGAGGGGTAAGCTTCGTCATCCTC			
7526	P	T	A	CGCGCCGAGGTGTAAGCTTCGTCATCCTCC			
7526	T	G	A	GGTAGGAGGATGACGAAGCTTACCGTCTGGCAGGAGGGGCAGTTGTAACATGCTG			
7526	T	T	A	GGTAGGAGGATGACGAAGCTTACAGTCTGGCAGGAGGGGCAGTTGTAACATGCTG			
7526	IS	[GT]		CATCTGTACTATCACAGCCCAGCATGTTACAACTGCCCCTCCTGCCAGAC[GT]GTAAGCTTCGTCATCCTCCTACCAAACACTCCTGTGCATCTTGCTGGCA C	ctg25099	7	
7548	I		S	GCTGTTCTTTCTGTGGGGTTGGAGGCTCTGCA			
7548	P	G	S	CGCGCCGAGGCCTAGGTGAGAATGCAGGTTT			
7548	P	A	S	CGCGCCGAGGTCTAGGTGAGAATGCAGGGTTT			
7548	T	G	S	AGAGCCCTGCATTCTCACCTAGGGCAGAGCCTCCAACCCCACAGAAAGAACAGCGT			
7548	T	A	S	AGAGCCCTGCATTCTCACCTAGAGCAGAGCCTCCAACCCCACAGAAAGAACAGCGT			
7548	IS	[GA]		TCCAGGTCCCTCCCGGGATGCCTCCCACAGAGCCCTGCATTCTCACCTAG[GA]GCAGAGCCTCCAACCCCACAGAAAGAACAGCGTTCTCAGGGAAAACCT GC	ctg15064	7	
7613	I		S	CACCGTGAGGGTTAAACGACAGAGCTCTAGGAATATACCTCT			
7613	P	T	S	CGCGCCGAGGACTCTAGCTGTTGTTGCTG			
7613	P	C	S	CGCGCCGAGGGCTCTAGCTGTTGTTGCT			
7613	T	T	S	GGACCAGCAACAACAGCTAGAGTGAGGTATATTCCTAGAGCTCTGTCGTTTAACCCTCACGGTGGC			
7613	T	C	S	GGACCAGCAACAACAGCTAGAGCGAGGTATATTCCTAGAGCTCTGTCGTTTAACCCTCACGGTGGC			
7613	IS	[TC]		TCCCTTCCCCGCCCGACTTACGCTCCCAGGACCAGCAACAACAGCTAGAG[TC]GAGGTATATTCCTAGAGCTCTGTCGTTTAACCCTCACGGTGGCCGAGT GG	ctg15064	7	
7649	I		A	GCTGTGTGGGGTCCCAGCTCACCCT			
7649	P	C	A	CGCGCCGAGGCCTTCCCAGGTGGCCTTT			
7649	P	G	A	CGCGCCGAGGGCTTCCCAGGTGGCTTT			
7649	T	C	A	GCATGGCCACCTGGGAAGGGGGTGAGCTGGGACCCCACACAGCTA			
7649	T	G	A	GCATGGCCACCTGGGAAGCGGGTGAGCTGGGACCCCACACAGCTA			
7649	IS	[CG]		GGGACCCAGCTGTCCTTCCCCAGCTAGCTGTGTGGGGTCCCAGCTCACCC[CG]CTTCCCAGGTGGCCATGCCAGGTCCCAGCCCTTCCCCTCCCTGGGCA GAT	ctg15665	20	
7688	I		A	CTTTCAGCTCGTTCCATTTCCTTGCTATTGTGAAGAATGCAGA			
7688	P	T	A	CGCGCCGAGGTAGTAAACATGCTAATTTGACAGGCY			
7688	P	C	A	CGCGCCGAGGCAGTAAACATGCTAATTTGACAGGY			
7688	T	T	A	TTAAGCCTGTCAAATTAGCATGTTTACTACTGCATTCTTCACAATAGCAAGGAAATGGAACGAGCTGAAAGGA			
7688	T	C	A	TTAAGCCTGTCAAATTAGCATGTTTACTGCTGCATTCTTCACAATAGCAAGGAAATGGAACGAGCTGAAAGGA			
7688	IS	[TC]		AAGGTTTCATTACCCATTCTTTTCCTGATGGTCCTTTCAGCTCGTTCCATTTCCTTGCTATTGTGAAGAATGCAG[TC]AGTAAACATGCTAATTTGACAGGCTT AATTTCAGAATTATTTTTGCATCTTTAAGTCAATTAAAAAGTCATACTCTGCTTTTGATGTTCTGAAACTAATTACTATAGAATTCATGGTTCAAAACTGGCCGC NGTTAAA	ctg14391	11	
7726	I		A	CTTGTCCCCTTTCACCCTCACAGCCTCTCCA			
7726	P	C	A	CGCGCCGAGGCTATGACAAGCAAGCCTAAGT			
7726	P	T	A	CGCGCCGAGGTTATGACAAGCAAGCCTAAGTC			
7726	T	C	A	AAAGGACTTAGGCTTGCTTGTCATAGGGAGAGGCTGTGAGGGTGAAAGGGGACAAGGT			
7726	T	T	A	AAAGGACTTAGGCTTGCTTGTCATAAGGAGAGGCTGTGAGGGTGAAAGGGGACAAGGT			
7726	IS	[CT]		CGGCCAGTAAATGAAAAGGAGCAGGAACTCATCACAAGGCCCTGGCTGGCACCCTCCAACCCAACACACCTTGTCCCCTTTCACCCTCACAGCCTCTCC[CT]TATGACAAGCAAGCCTAAGTCCTTTCCCAAGAACAGTACCCAAGCGTTCCTTTCCCAGTGGACAGTGGGACAGAAAAGCCAGCCCAGTCCACAGCAAGGAG G	ctg22fin4	22	
14737	I		S	CCCTAGATGAGTGCATCAGAGGAAGGTAGATACCTTGGTTTTC			
14737	P	A	S	CGCGCCGAGGTCTTTTTGGGAGCCAGCY			
14737	P	C	S	CGCGCCGAGGGCTTTTTGGGAGCCAGCY			
14737	T	A	S	CCTTGCTGGCTCCCAAAAAGAAAAACCAAGGTATCTACCTTCCTCTGATGCACTCATCTAGGGAA			
14737	T	C	S	CCTTGCTGGCTCCCAAAAAGCAAAACCAAGGTATCTACCTTCCTCTGATGCACTCATCTAGGGAA			
14737	IS	[AC]		CAGTGTGAGAAATGGTTCCTTTAGCACTAGCCTTGCTGGCTCCCAAAAAG[AC]AAAACCAAGGTATCTACCTTCCTCTGATGCACTCATCTAGGGAAGGGCG T	ctg14072	17	
14750	I		S	CTGCTTTTATCCACTGTATGAGGATCCCCTCCATATAAATGATCTTCTACT			
14750	P	C	S	CGCGCCGAGGGCAGGCTTCTACCAAAACC			
14750	P	T	S	CGCGCCGAGGACAGGCTTCTACCAAAACC			
14750	T	C	S	ATGAGGTTTTGGTAGAAGCCTGCGTAGAAGATCATTTATATGGAGGGGATCCTCATACAGTGGATAAAAGCAG			
14750	T	T	S	ATGAGGTTTTGGTAGAAGCCTGTGTAGAAGATCATTTATATGGAGGGGATCCTCATACAGTGGATAAAAGCAG			
14750	IS	[CT]			ctg15140	12	
14751	I		A	GTAGCCAGTCTTGACTTGTTCCTACCCTTCAAAAAATGGTCAAGA			
14751	P	C	A	CGCGCCGAGGCTTCTGGGTGGTACTTAGTGA			
14751	P	T	A	CGCGCCGAGGTTTCTGGGTGGTACTTAGTGA			
14751	T	C	A	AGAGTCACTAAGTACCACCCAGAAGCTTGACCATTTTTTGAAGGGTAGGAACAAGTCAAGACTGGCTACCC			
14751	T	T	A	AGAGTCACTAAGTACCACCCAGAAACTTGACCATTTTTTGAAGGGTAGGAACAAGTCAAGACTGGCTACCC			
14751	IS	[CT]			MULTIPLE	MULTIPLE	
14752	I		A	CTGAGTAGGGGAAACTACAGGTGTGTGCCACCT			
14752	P	A	A	CGCGCCGAGGACCACACCCAACTAATTTTAAAATT			
14752	P	C	A	CGCGCCGAGGCCCACACCCAACTAATTTTAAAAT			
14752	T	A	A	TACAAATAATTTTAAAATTAGTTGGGTGTGGTGGTGGCACACACCTGTAGTTTCCCCTACTCAGGA			
14752	T	C	A	TACAAATAATTTTAAAATTAGTTGGGTGTGGGGGTGGCACACACCTGTAGTTTCCCCTACTCAGGA			
14752	IS	[AC]			ctg15330	9	
14755	I		S	GGAAGCATCCTTGTGTCTACCTGGGACAAGCTCAAT			
14755	P	T	S	CGCGCCGAGGAGTGTGCTTGGTGTACAAAC			
14755	P	G	S	CGCGCCGAGGCGTGTGCTTGGTGTACAA			
14755	T	T	S	CTAGGTTTGTACACCAAGCACACTTTGAGCTTGTCCCAGGTAGACACAAGGATGCTTCCTA			
14755	T	G	S	CTAGGTTTGTACACCAAGCACACGTTGAGCTTGTCCCAGGTAGACACAAGGATGCTTCCTA			
14755	IS	[TG]			ctg13740	5	
14785	I		A	CTTGCTGCTGTGACGTCAGCTTCCCCATCA			
14785	P	C	A	CGCGCCGAGGCTCCCAGCCAGGCTTTT			
14785	P	T	A	CGCGCCGAGGTTCCCAGCCAGGCTGTTT			
14785	T	C	A	GGTCCAGCCTGGCTGGGAGGATGGGGAAGCTGACGTCACAGCAGCAAGGA			
14785	T	T	A	GGTCCAGCCTGGCTGGGAAGATGGGGAAGCTGACGTCACAGCAGCAAGGA			
14785	IS	[CT]			ctg15064	7	
14786	I		S	AGGGTTGCTACAACAGAATATCTGAGGCTGGGTAATTTATAAAGGAAGAT			
14786	P	C	S	CGCGCCGAGGGGTGTGTTTGGCTCATCAT			
14786	P	G	S	CGCGCCGAGGCGTGTGTTTGGCTCATCA			
14786	T	C	S	CAGAATGATGAGCCAAACACACCTCTTCCTTTATAAATTACCCAGCCTCAGATATTCTGTTGTAGCAACCCTA			
14786	T	G	S	CAGAATGATGAGCCAAACACACGTCTTCCTTTATAAATTACCCAGCCTCAGATATTCTGTTGTAGCAACCCTA			
14786	IS	[CG]			ctg15064	7	
14797	I		A	GTAAATATTTCCCAAGCCTCCTCCATCCCTCCT			
14797	P	G	A	CGCGCCGAGGGCCACCCAAAATGCCA			
14797	P	A	A	CGCGCCGAGGACCACCCAAAATGCCAG			
14797	T	G	A	GGGCCTGGCATTTTGGGTGGCGGAGGGATGGAGGAGGCTTGGGAAATATTTACTA			
14797	T	A	A	GGGCCTGGCATTTTGGGTGGTGGAGGGATGGAGGAGGCTTGGGAAATATTTACTA			
14797	IS	[GA]			ctg18433	19	
14806	I		A	GTCCCCAATCAATCTGGAAACTGAAAAGGAGCCAGAATATTCATTTC			
14806	P	T	A	CGCGCCGAGGTCCACCATCAAGCCTGC			
14806	P	A	A	CGCGCCGAGGACCACCATCAAGCCTG			
14806	T	T	A	GGCTGCAGGCTTGATGGTGGAAAATGAATATTCTGGCTCCTTTTCAGTTTCCAGATTGATTGGGGACAA			

FIGURE 129E

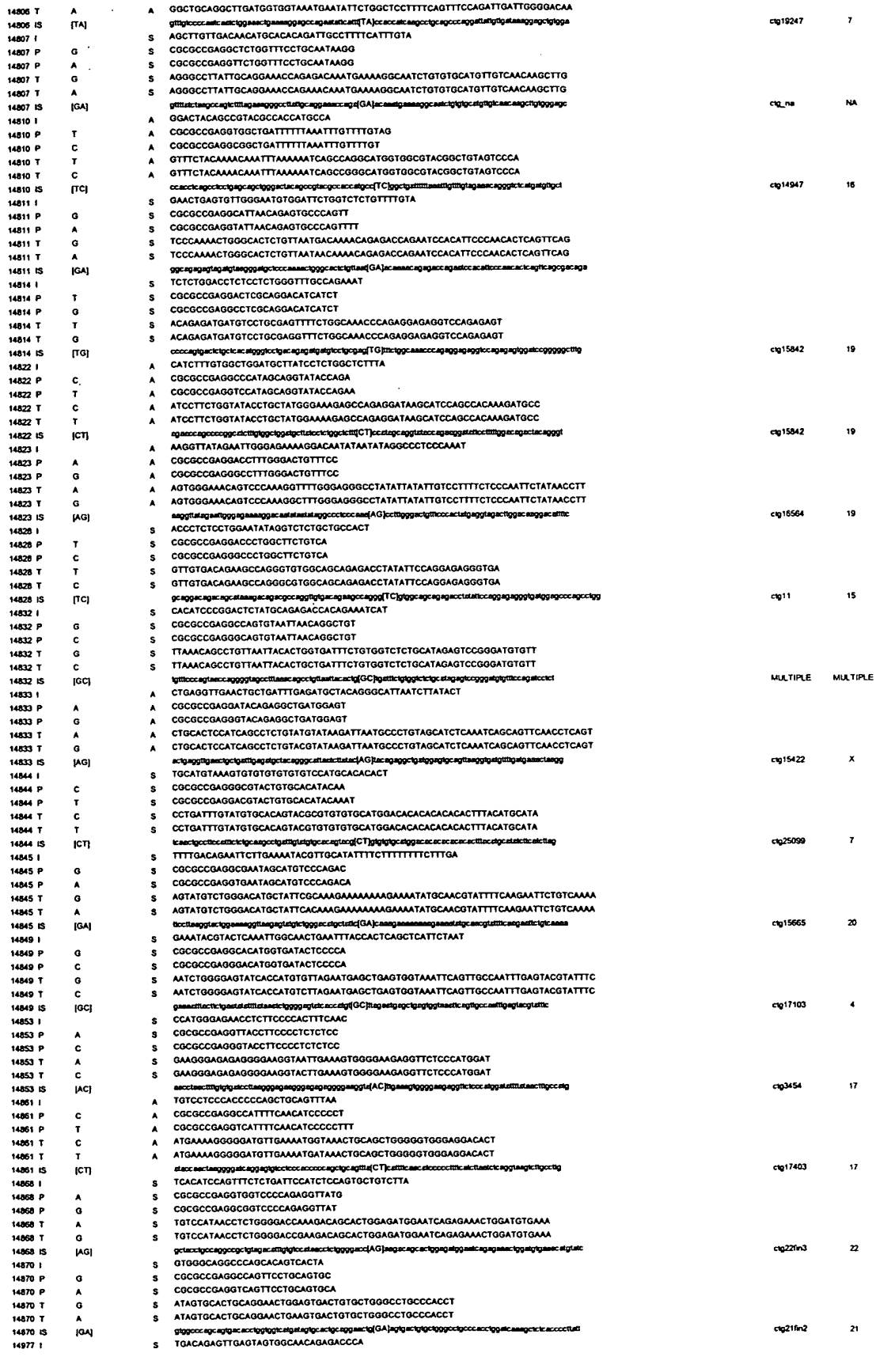


FIGURE 129E

14977	P	G	S	CGCGCCGAGGCACCGTTTGCAAATCATAACATAT		
14977	P	A	S	CGCGCCGAGGTACCGTTTGCAAATCATAACATATTTA		
14977	T	G	S	ATAGTAAATATGTTATGATTTGCAAACGGTGGGGTCTCTGTTGCCACTACTCAACTCTGTCATT		
14977	T	A	S	ATAGTAAATATGTTATGATTTGCAAACGGTAGGGTCTCTGTTGCCACTACTCAACTCTGTCATT		
14977	tS	[GA]		CAGGAAGACTGGGAAGAAGACTATTGGAATACGCCAGGCACCAGGATTTGGAAAGCTTTCTGAAGGGGGCAAAATAGTAAATATGTTATGATTTGCAAACG GT[GA]GGGTCTCTGTTGCCACTACTCAACTCTGTCATTTTAGAATGAAAGAAGCCATATATTATATGTAAACAAATGGGTGTGTGTGCATTCCAATAAAACTTC ATT	ctg16537	20
14978	I		S	CCCATGTTGTAGCATGCACCTTCATTCCTTTTTATGGCTT		
14978	P	T	S	CGCGCCGAGGAAATAATATTCCGTGGTGTAGATAGAG		
14978	P	C	S	CGCGCCGAGGGAATAATATTCCGTGGTGTAGATAGAG		
14978	T	T	S	TGTACTCTATCTACACCACGGAATATTATTTAGCCATAAAAAGGAATGAAGGTGCATGCTACAACATGGGTA		
14978	T	C	S	TGTACTCTATCTACACCACGGAATATTATTCAGCCATAAAAAGGAATGAAGGTGCATGCTACAACATGGGTA		
14978	tS	[TC]		ACATATACATATGGTCTCATAGCAGCATTAATCACAACAGCCAAAGTGGAAACATCCCAAGTGTCCATCAACTGATGAATGGATAAGCAAAATGTACTCTATC TACACCACGGAATATTATT[TC]AGCCATAAAAAGGAATGAAGGTGCATGCTACAACATGGGTAAACTTTGAAAACATTATGCTGAGTGAAATAAGCCAGACAC A	ctg18037	7
14981	I		S	ACCTTAACTTTCAATGCCTTGATTTCCTTCTTTATAAAATGGGAAAAATGT		
14981	P	C	S	CGCGCCGAGGGTAACTCTTGTCTTGTAGGGTTG		
14981	P	T	S	CGCGCCGAGGATAACTCTTGTCTTGTAGGGTTG		
14981	T	C	S	ATAACAACCCTACAAGACAAGAGTTACCATTTTTCCCATTTTATAAAGAAGGAAATCAAGGCATTGAAAGTTAAGGTGA		
14981	T	T	S	ATAACAACCCTACAAGACAAGAGTTATCATTTTTCCCATTTTATAAAGAAGGAAATCAAGGCATTGAAAGTTAAGGTGA		
14981	tS	[CT]		CTACCCGCCTCGGCCTCCCAAAGCGCTGGGATTACAGGCGTGAGCCACCGCGCCCAGCAAGTTTTGTTTCTTTCAAGTCCATAACAACCCTACAAGACAAG AGTTA[CT]CATTTTTCCCATTTTATAAAGAAGGAAATCAAGGCATTGAAAGTTAAGGTGACTTACCCAATCACCCGTAGGAAGTGGCAGAGCCAGGATTTGAA GCC	ctg_na	NA
15031	I		S	GGGAAAGCAAAATAAAAAATAAAAAAATATAAAATCAGTATTATTTTTCTATGCTAATTTC		
15031	P	A	S	CGCGCCGAGGTTAAATGATTTCCATTAGCTTATTTTTGG		
15031	P	C	S	CGCGCCGAGGGTAAATGATTTCCATTAGCTTATTTTTGG		
15031	T	A	S	TTTACCAAAAATAAGCTAATGGAAATCATTTAAAAATTAGCATAGAAAAATAATACTGATTTTATATTTTTTTATTTTTTATTTTGCTTTCCCCA		
15031	T	C	S	TTTACCAAAAATAAGCTAATGGAAATCATTTACAAATTAGCATAGAAAAATAATACTGATTTTATATTTTTTTATTTTTTATTTTGCTTTCCCCA		
15031	tS	[AC]		CCAAATGCAGACGACATCCAGGAAAATATATAGTCTTTTTCTTATTTACCAAAAATAAGCTAATGGAAATCATTTA[AC]AAATTAGCATAGAAAAATAATACTGA TTTTATATTTTTTATTTTTTATTTTGCTTTCCCCAAATGTACTGATCACACTCCAGGCTCCCCCAAAATCTAGACAGTGCTTTCTTCCATCTCTGAAGGGTGTT AAAACC	ctg24	15
5105	I		S	ACATAAGGAGACATAGCCTACTTTAGCCCAAAACTTCA		
5105	P	A	S	CGCGCCGAGGTTTCACTTGTTATGTCCTTTTAC		
5105	P	G	S	ATGACGTGGCAGACCTTCACTTGTTATGTCCTTTTAC		
5105	T	A	S	AGAGGTAAAAGGACATAACAAGTGAAAGAAGTTTTGGGCTAAAGTAGGCTATGTCTCCTTATGTAT		
5105	T	G	S	AGAGGTAAAAGGACATAACAAGTGAAGGAAGTTTTGGGCTAAAGTAGGCTATGTCTCCTTATGTAT		
5105	tS	[AG]		AAGAAGATCCGAGTTTATTTCATTCTATGTTTTAAGAGGTAAAAGGACATAACAAGTGAA[AG]GAAGTTTTGGGCTAAAGTAGGCTATGTCTCCTTATGTATTA CTCAATACTGTTTTGCAGA	ctg16279	17
6072	I		A	AGACAGGACAAGGAGGGCTCATGCCCT		
6072	P	C	A	ATGACGTGGCAGACCGCCCGGCTGCY		
6072	P	A	A	CGCGCCGAGGAGCCCGGCTGCY		
6072	T	C	A	CCTTGCAGCCGGGCGGGGCATGAGCCCTCCTTGTCCTGTCTGA		
6072	T	A	A	CCTTGCAGCCGGGCTGGGCATGAGCCCTCCTTGTCCTGTCTGA		
6072	tS	[CA]		ATAGTCCAAGGTGGGATTTTGCCACCAGTCAGTCAGACAGGACAAGGAGGGCTCATGCCC[CA]GCCCGGGTGCAAGGACAGGCCACAGGGAGGTGTGATA GGCTCGGCAGCTCCTGGGCACCA	ctg3235	11
6395	I		A	TGTCCTCTTGACAAAGGTCTAACCTACAAGTCTCCCACT		
6395	P	A	A	CGCGCCGAGGAGAATTTGCGCTGGTCY		
6395	P	G	A	ATGACGTGGCAGACGGAATTTGCGCTGGTY		
6395	T	A	A	GTAAGACCAGCGCAAATTCTGTGGGAGACTTGTAGGTTAGACCTTTGTCAAGAGGACAAA		
6395	T	G	A	GTAAGACCAGCGCAAATTCCGTGGGAGACTTGTAGGTTAGACCTTTGTCAAGAGGACAAA		
6395	tS	[AG]		CCAGACCTTTAGATGTCAGTTTTGTCCTCTTGACAAAGGTCTAACCTACAAGTCTCCCAC[AG]GAATTTGCGCTGGTCTTACTGTGTTCTTAATCTCTTTTCCT GTCTCACCAGGGTTGCAGG	ctg13206	14
6694	I		A	GTGACCCTGAGTTGCACATATGACACCAGTGAGAT		
6694	P	A	A	CGCGCCGAGGATAATTATTATTTGTTCTGGTACAAGCY		
6694	P	G	A	ATGACGTGGCAGACGTAATTATTATTTGTTCTGGTACAAGY		
6694	T	A	A	GGCTGCTTGTACCAGAACAAATAATAATTATTCTCACTGGTGTCATATGTGCAACTCAGGGTCACAG		
6694	T	G	A	GGCTGCTTGTACCAGAACAAATAATAATTACTCTCACTGGTGTCATATGTGCAACTCAGGGTCACAG		
6694	tS	[AG]		AGATGTCTGTGCAGGAGGCAGAGACTGTGACCCTGAGTTGCACATATGACACCAGTGAGA[AG]TAATTATTATTTGTTCTGGTACAAGCAGCCTCCCAGCAG GCAGATGATTCTCGTTATTCG		
12358	I		S	GAGGGCAGGGCTTGACTGGGAGCTAGT		
12358	P	C	S	ATGACGTGGCAGACGGGCCCCTGAGCY		
12358	P	G	S	CGCGCCGAGGCGGCCCCTGAGCY		
12358	T	C	S	ACTGGCTCAGGGGCCCCTAGCTCCCAGTCAAGCCCTGCCCTCCT		
12358	T	G	S	ACTGGCTCAGGGGCCGCTAGCTCCCAGTCAAGCCCTGCCCTCCT		
12358	tS	[CG]		AGGTGCCCCAGGAGCCACCTGCTCCACTCATCCACAAAGGCCTTAACTGGCTCAGGGGCC[CG]CTAGCTCCCAGTCAAGCCCTGCCCTCCTGACCTTGTC CTGCCCTGGTGCTGCCAGTCGGG	ctg15811	4
15061	I		S	GTACTCACATCTCGAGTGATAATCTCAGGGTTGATGATGA		
15061	P	A	S	CGCGCCGAGGTCGAAGAGGCTCACGCY		
15061	P	G	S	CGCGCCGAGGCCGAAGAGGCTCACGY		
15061	T	A	S	AAAGGCGTGAGCCTCTTCGACATCATCAACCCTGAGATTATCACTCGAGATGTGAGTAC		
15061	T	G	S	AAAGGCGTGAGCCTCTTCGGCATCATCAACCCTGAGATTATCACTCGAGATGTGAGTAC		
15061	tS	[AG]		CGAGGTAGTGTTTACAGCCCTCATGAACAGCAAAGGCGTGAGCCTCTTCG[AG]CATCATCAACCCTGAGATTATCACTCGAGATGTGAGTAC	ctg21fin5	21
16827	I		A	CGCTAGAATGTCAACTCATTATGCTCTTCAGTGCTCTATATCCTGAAT		
16827	P	A	A	CGCGCCGAGGATGGGTATCACAAGACCAY		
16827	P	G	A	ATGACGTGGCAGACGTGGGTATCACAAGACCAY		
16827	T	A	A	TGAGTGGTCTTGTGATACCCATTTCAGGATATAGAGCACTGAAGAGCATAATGAGTTGACATTCTAGCGTC		
16827	T	G	A	TGAGTGGTCTTGTGATACCCACTTCAGGATATAGAGCACTGAAGAGCATAATGAGTTGACATTCTAGCGTC		
16827	tS	[AG]		ATAGGGAATGGGACGCTAGAATGTCAACTCATTATGCTCTTCAGTGCTCTATATCCTGAA[AG]TGGGTATCACAAGACCACTCAAATAAGGGCAGAGGGATG GCCTGGGGTAGATGCCACAGA	ctg13321	5
4067	I		A	CCTCTGCCTAATGCCTAAGATGTTAAATCTGAACTTGATTTGCCATTAATT		
4067	P	A	A	CGCGCCGAGGACAGTTGTTCAGGATGTGATG		
4067	P	G	A	CGCGCCGAGGGCAGTTGTTCAGGATGTGAT		
4067	T	A	A	GGGACATCACATCCTGAACAACTGTATTAATGGCAAATCAAGTTCAGATTTAACATCTTAGGCATTAGGCAGAGG		
4067	T	G	A	GGGACATCACATCCTGAACAACTGCATTAATGGCAAATCAAGTTCAGATTTAACATCTTAGGCATTAGGCAGAGG		
4067	tS	[AG]		CCTCTGCCTAATGCCTAAGATGTTAAATCTGAACTTGATTTGCCATTAAT[AG]CAGTTGTTCAGGATGTGATGTCCCCAGTTCTCTCTCCATGAATGTGGGGG	ctg17782	X
6993	I		A	TCTCAGGGTATGCTTAAATTATTGCTATCAGGTACATTTATCATACCACCA		
6993	P	T	A	CGCGCCGAGGTACATACCTTTCCTGAACAAGTG		
6993	P	C	A	CGCGCCGAGGCACATACCTTTCCTGAACAAGT		
6993	T	T	A	TCCTCACTTGTTCAGGAAAGGTATGTAGGTGGTATGATAAATGTACCTGATAGCAATAATTTAAGCATACCCTGAGA		
6993	T	C	A	TCCTCACTTGTTCAGGAAAGGTATGTGGGTGGTATGATAAATGTACCTGATAGCAATAATTTAAGCATACCCTGAGA		
6993	tS	[TC]		TCTCAGGGTATGCTTAAATTATTGCTATCAGGTACATTTATCATACCACC[TC]ACATACCTTTCCTGAACAAGTGAGGAAAAGATGCACTCAAGTCAATCAGG	ctg17490	X
6996	I		A	GGCCTGTGTCCCTCAAGCTGGACGTGT		
6996	P	A	A	CGCGCCGAGGACCTGAGGCACACGGY		
6996	P	C	A	CGCGCCGAGGCCCTGAGGCACACGGY		

FIGURE 129E

6996 T	A	A	CTTTCCGTGTGCCTCAGGTCACGTCCAGCTTGAGGGACACAGGCCTG			
6996 T	C	A	CTTTCCGTGTGCCTCAGGGCACGTCCAGCTTGAGGGACACAGGCCTG			
6996 IS	[AC]		ATGTAATCAGAGCTCTTGGGGACAGGCCTGTGTCCCTCAAGCTGGACGTG[AC]CCTGAGGCACACGGAAAGTACAGCCCCAATGAGTGGCCTTGGCCTCT GCC	ctg13206	14	
6997 I		A	CCCGCAGCGAAGGTTATGTTAATACAATCAGCTTTTT			
6997 P	A	A	CGCGCCGAGGACTCCGCCATGAAGTCC			
6997 P	G	A	CGCGCCGAGGGCTCCGCCATGAAGTC			
6997 T	A	A	AGAAGGACTTCATGGCGGAGTAAAAGCTGATTGTATTAACATAACCTTCGCTGCGGGAA			
6997 T	G	A	AGAAGGACTTCATGGCGGAGCAAAAGCTGATTGTATTAACATAACCTTCGCTGCGGGAA			
6997 IS	[AG]		GTTCTTTTGAGATTCCCGCAGCGAAGGTTATGTTAATACAATCAGCTTTT[AG]CTCCGCCATGAAGTCCTTCTCGTGCTTTCTGGTGGAGAGTAATCTCCAGT	ctg15907	6	
7022 I		A	CTTCCCATTCCCCACACTCTCCAGTCCA			
7022 P	T	A	CGCGCCGAGGTCTCTCCTCCCTTATTGCAG			
7022 P	C	A	CGCGCCGAGGCCTCTCCTCCCTTATTGCA			
7022 T	T	A	GAGCCTGCAATAAGGGAGGAGAGAGGACTGGAGAGTGTGGGGAATGGGAAGAA			
7022 T	C	A	GAGCCTGCAATAAGGGAGGAGAGGGGACTGGAGAGTGTGGGGAATGGGAAGAA			
7022 IS	[TC]		CTTTAGTCCAAAGTAAACTACTTCTTCCCATTCCCCACACTCTCCAGTC[TC]CTCTCCTCCCTTATTGCAGGCTCCAGTGTTCCTGCCTTCTCCTTGGTGCA	ctg15907	6	APOL2
7107 I		S	GGAGGTTAGAATTCTATACCTTAGCATTTCTCTCCCTTTTCCTCAACAACT			
7107 P	G	S	CGCGCCGAGGCCAGCCCCTCAAGAATATC			
7107 P	C	S	CGCGCCGAGGGCAGCCCCTCAAGAATATC			
7107 T	G	S	CTTGGATATTCTTGAGGGGCTGGGTTGTTGAGGAAAAGGGAGAGAAATGCTAAGGTATAGAATTCTAACCTCC			
7107 T	C	S	CTTGGATATTCTTGAGGGGCTGCGTTGTTGAGGAAAAGGGAGAGAAATGCTAAGGTATAGAATTCTAACCTCC			
7107 IS	[GC]		AGGCATGAGCTACCGCACCCTGCCATTTCTTGGATATTCTTGAGGGGCTG[GC]GTTGTTGAGGAAAAGGGAGAGAAATGCTAAGGTATAGAATTCTAACCTC C	ctg17341	14	
7157 I		A	ATCCCTTCTCCTCTCACCTCCCAACCCTGAA			
7157 P	T	A	CGCGCCGAGGTATTTCTTCCTTCCACCCCA			
7157 P	C	A	CGCGCCGAGGCATTTCTTCCTTCCACCCC			
7157 T	T	A	CGGGTGGGGTGGAAGGAAGAAATATCAGGGTTGGGAGGTGAGAGGAGAAGGGATGC			
7157 T	C	A	CGGGTGGGGTGGAAGGAAGAAATGTCAGGGTTGGGAGGTGAGAGGAGAAGGGATGC			
7157 IS	[TC]		TCCTCCCCCACTGAGGCTGCATCCCTTCTCCTCTCACCTCCCAACCCTGA[TC]ATTTCTTCCTTCCACCCCACCCGGCTGTATTCTCTCTCCCTCTCTCTCCC	ctg15907	6	
7162 I		S	GCTGGCCCTGCAATCGTCCTGGTCACATTATTT			
7162 P	G	S	CGCGCCGAGGCTCCTGCATAACAACATCTATGT			
7162 P	T	S	CGCGCCGAGGATCCTGCATAACAACATCTATGT			
7162 T	G	S	AGAGACATAGATGTTGTTATGCAGGAGAATAATGTGACCAGGACGATTGCAGGGCCAGCCC			
7162 T	T	S	AGAGACATAGATGTTGTTATGCAGGATAATAATGTGACCAGGACGATTGCAGGGCCAGCCC			
7162 IS	[GT]		AAGGTCTTTAGTTGAGTAGGAAAGAGAGACATAGATGTTGTTATGCAGGA[GT]AATAATGTGACCAGGACGATTGCAGGGCCAGCCCCCTTAGGCAGCCTC TG			
7166 I		A	GGTTGAGTGTTCTAGGGCAGGTGCAATAGAACT			
7166 P	G	A	CGCGCCGAGGGATGACGGAGATCCTCCCY			
7166 P	A	A	CGCGCCGAGGAATGACGGAGATCCTCCCY			
7166 T	G	A	GGGAGGGAGGATCTCCGTCATCGTTCTATTGCACCTGCCCTAGAACACTCAACCTT			
7166 T	A	A	GGGAGGGAGGATCTCCGTCATTGTTCTATTGCACCTGCCCTAGAACACTCAACCTT			
7166 IS	[GA]		ATCGGTGGATTGATTCAAGGTTGAGTGTTCTAGGGCAGGTGCAATAGAAC[GA]ATGACGGAGATCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTTC TT	ctg14391	11	
7171 I		A	CCAAGACCCTTAAGTTTTCATGCAGACAATTGGATGTTATTTCTCTCTGAA			
7171 P	C	A	CGCGCCGAGGCCCAACATTTTTCAAACAGTATTCC			
7171 P	T	A	CGCGCCGAGGTCCAACATTTTTCAAACAGTATTCC			
7171 T	C	A	CCAAGGAATACTGTTTGAAAAATGTTGGGTCAGAGAGAAATAACATCCAATTGTCTGCATGAAAACTTAAGGGTCTTGG			
7171 T	T	A	CCAAGGAATACTGTTTGAAAAATGTTGGATCAGAGAGAAATAACATCCAATTGTCTGCATGAAAACTTAAGGGTCTTGG			
7171 IS	[CT]		CCAAGACCCTTAAGTTTTCATGCAGACAATTGGATGTTATTTCTCTCTGA[CT]CCAACATTTTTCAAACAGTATTCCTTGGAACCCAACAAAAGTTCCACAAG	ctg16400	17	
7185 I		S	GCGCAGGTGGTCAGAAAGCCCCTCTGC			
7185 P	T	S	CGCGCCGAGGAGAGGGTCAGACCTCAAG			
7185 P	A	S	CGCGCCGAGGTGAGGGTCAGACCTCAAG			
7185 T	T	S	CATTCTTGAGGTCTGACCCTCTCAGAGGGGCTTTCTGACCACCTGCGCTG			
7185 T	A	S	CATTCTTGAGGTCTGACCCTCACAGAGGGGCTTTCTGACCACCTGCGCTG			
7185 IS	[TA]		TTCTCCACACTGCATAGCTGACTCCTTCTCATTCTTGAGGTCTGACCCTG[TA]CAGAGGGGCTTTCTGACCACCTGCGCTGCGTTGCTCTGCCCTGTCTTCT C	ctg17731	1	
7248 I		A	AATTCTCCATTTACAACTTAAACCTAAAGATGTGAGTTGAAAGGCTATAAA			
7248 P	T	A	CGCGCCGAGGTATTATTAGCTGCTGGGCTGTTT			
7248 P	C	A	CGCGCCGAGGCATTATTAGCTGCTGGGCTTTT			
7248 T	T	A	ATGTCAGCCCAGCAGCTAATAATATTATAGCCTTTCAACTCACATCTTTAGGTTTAAGTTGTAAATGGAGAATT			
7248 T	C	A	ATGTCAGCCCAGCAGCTAATAATGTTATAGCCTTTCAACTCACATCTTTAGGTTTAAGTTGTAAATGGAGAATT			
7248 IS	[TC]		AATTCTCCATTTACAACTTAAACCTAAAGATGTGAGTTGAAAGGCTATAA[TC]ATTATTAGCTGCTGGGCTGACATCTTGATCCATGATATTTTAGCCCAGAG	ctg15944	11	
7282 I		A	CAAAGACACTCAAAGATGGTTTTGTTTTGTTTTTGTCCAGTAATTCTTTTA			
7282 P	C	A	CGCGCCGAGGCGGAATTTCTCCAAAGGAAATAATC			
7282 P	T	A	CGCGCCGAGGTGGAATTTCTCCAAAGGAAATAATC			
7282 T	C	A	CACTGATTATTTCCTTTGGAGAAATTCCGAAAAGAATTACTGGACAAAAACAAAACAAAACCATCTTTGAGTGTCTTTG			
7282 T	T	A	CACTGATTATTTCCTTTGGAGAAATTCCAAAAAGAATTACTGGACAAAAACAAAACAAAACCATCTTTGAGTGTCTTTG			
7282 IS	[CT]		CAAAGACACTCAAAGATGGTTTTGTTTTGTTTTTGTCCAGTAATTCTTTT[CT]GGAATTTCTCCAAAGGAAATAATCAGTGATGAGGTTAAAAAAAATTGTCT	ctg5212	19	
7324 I		A	CAAATTGGAATGAATTCTCTGGATATAGTATCTTTGAGGAAACTCAGTCCA			
7324 P	C	A	CGCGCCGAGGCGCCACCCCTTCATG			
7324 P	T	A	CGCGCCGAGGTGCCACCCCTTCATGT			
7324 T	C	A	ATGGACATGAAGGGGTGGCGGGACTGAGTTTCCTCAAAGATACTATATCCAGAGAATTCATTCCAATTTG			
7324 T	T	A	ATGGACATGAAGGGGTGGCAGGACTGAGTTTCCTCAAAGATACTATATCCAGAGAATTCATTCCAATTTG			
7324 IS	[CT]		CAAATTGGAATGAATTCTCTGGATATAGTATCTTTGAGGAAACTCAGTCC[CT]GCCACCCCTTCATGTCCATCATCTTACAAACATGGCTTAAAACTTACCTA			
7469 I		S	AGTTTTCAATCAAATTCAAAGACAGTGTGTATACAATTCCTTTCACAACCA			
7469 P	G	S	CGCGCCGAGGCGTCATATCCTCACCTCCA			
7469 P	A	S	CGCGCCGAGGTGTCATATCCTCACCTCCAT			
7469 T	G	S	GAGGATGGAGGTGAGGATATGACGGGTTGTGAAAGGAATTGTATACACACTGTCTTTGAATTTGATTGAAAACT			
7469 T	A	S	GAGGATGGAGGTGAGGATATGACAGGTTGTGAAAGGAATTGTATACACACTGTCTTTGAATTTGATTGAAAACT			
7469 IS	[GA]		AGAGGAAACTGGGCAATAGCTGCAGATGAGGATGGAGGTGAGGATATGAC[GA]GGTTGTGAAAGGAATTGTATACACACTGTCTTTGAATTTGATTGAAAAC T	ctg15053	16	
14416 I		S	CTAGTTGGGCAGGGGCCTGGGGAAT			
14416 P	C	S	CGCGCCGAGGGTAGACCTGCTTGAATGACTAGY			
14416 P	T	S	CGCGCCGAGGATAGACCTGCTTGAATGACTAGY			
14416 T	C	S	GGAGCTAGTCATTCAAGCAGGTCTACTTCCCCAGGCCCCTGCCCAACTAGGT			
14416 T	T	S	GGAGCTAGTCATTCAAGCAGGTCTATTTCCCCAGGCCCCTGCCCAACTAGGT			
14416 IS	[CT]		ATGGAGCCTGAACCCGTAACAAGTCTCAGAGGCAGGCCGTAGGAGGAGCTAGGCCAGCAGGAGCTAGTCATTCAAGCAGGTCTA[CT]TTCCCCAGGCCCC TGCCCAACTAGGTCCTCTGATGCCTTCCTTTACCCACCAGCTGCTGTTAGTGAGGATCCAACAGGCCTGCCTCTGGCCAGTCTGCAGTACGACAGGGTCCA ATG	ctg12387	2	
14736 I		S	CACGGTGTTAATTTTGGCAACCCTATCCTGGAATTCTAGACTTT			
14736 P	C	S	CGCGCCGAGGGGATCACCAACATTGTTGTCTY			
14736 P	G	S	CGCGCCGAGGCGATCACCAACATTGTTGTCTY			

FIGURE 129E

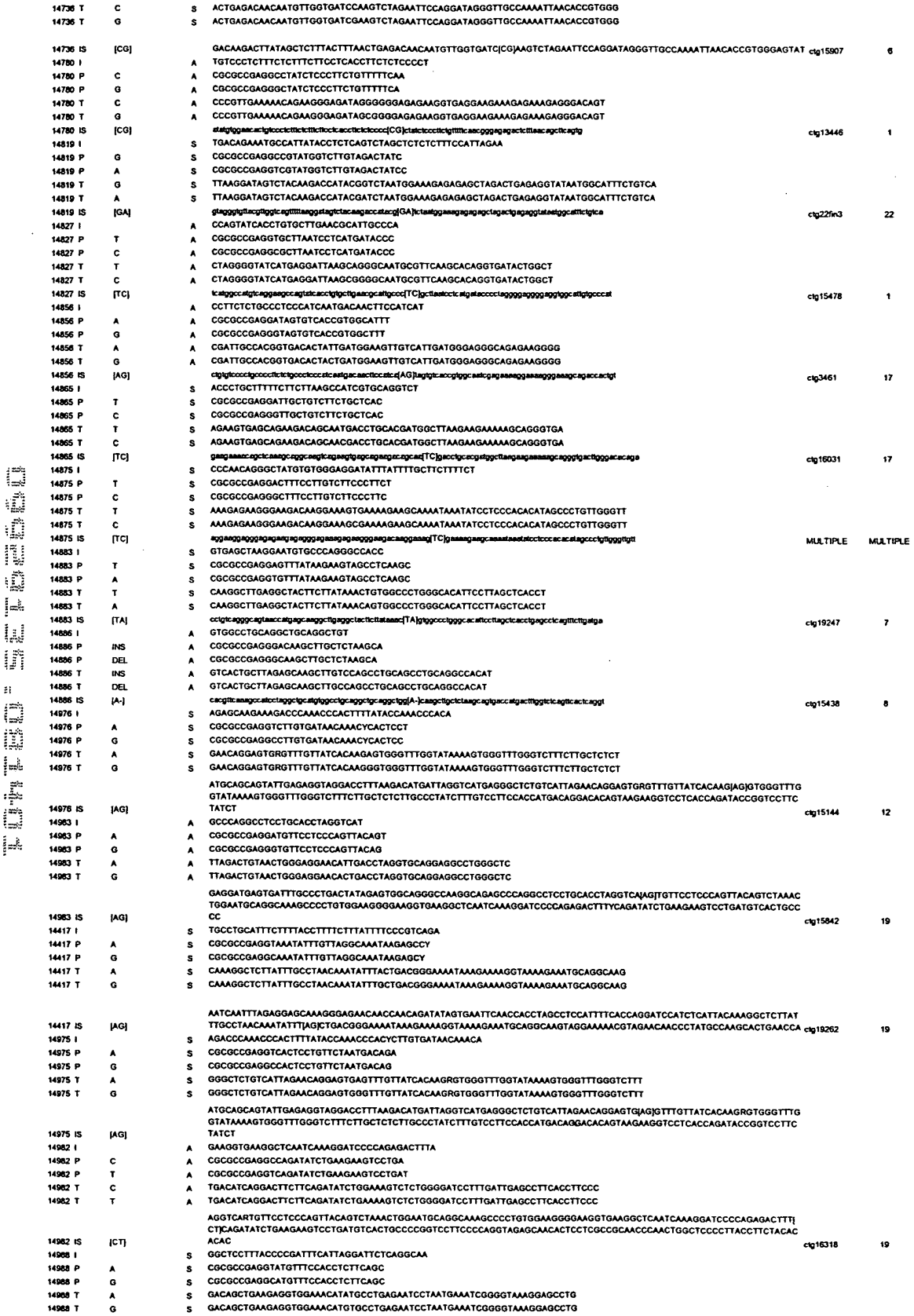


FIGURE 129E

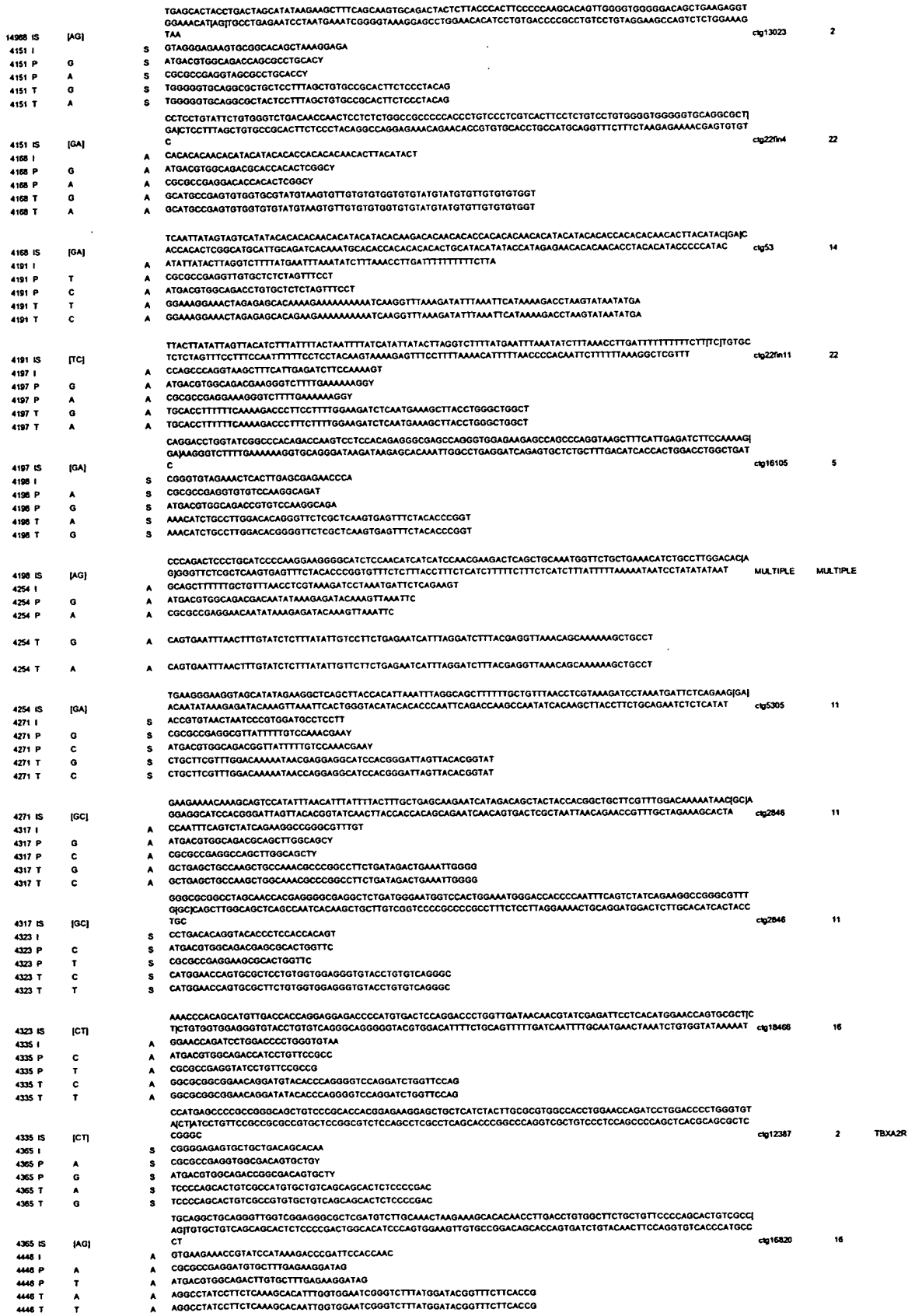

TGAGCACTACCTGACTAGCATATAAGAAGCTTTCAGCAAGTGCAGACTACTCTTACCCACTTCCCCCAAGCACAGTTGGGGTGGGGGACAGCTGAAGAGGT
GGAAACAT[AG]TGCCTGAGAATCCTAATGAAATCGGGGTAAAGGAGCCTGGAACACATCCTGTGACCCCGCCTGTCCTGTAGGAAGCCAGTCTCTGGAAAG
14968 IS [AG] TAA ctg13023 2
4151 I S GTAGGGAGAAGTGCGGCACAGCTAAAGGAGA
4151 P G S ATGACGTGGCAGACCAGCGCCTGCACY
4151 P A S CGCGCCGAGGTAGCGCCTGCACCY
4151 T G S TGGGGGTGCAGGCGCTGCTCCTTTAGCTGTGCCGCACTTCTCCCTACAG
4151 T A S TGGGGGTGCAGGCGCTACTCCTTTAGCTGTGCCGCACTTCTCCCTACAG
CCTCCTGTATTCTGTGGGTCTGACAACCAACTCCTCTCTGGCCGCCCCCACCCTGTCCCTCGTCACTTCCTCTGTCCTGTGGGGTGGGGGTGCAGGCGCT
GA[CTCCTTTAGCTGTGCCGCACTTCTCCCTACAGGCCAGGAGAAACAGAACACCGTGTGCACCTGCCATGCAGGTTTCTTTCTAAGAGAAAACGAGTGTGT
4151 IS [GA] C ctg22fin4 22
4168 I A CACACACAACACATACATACACACCACACACAACACTTACATACT
4168 P G A ATGACGTGGCAGACGCACCACACTCGGCY
4168 P A A CGCGCCGAGGACACCACACTCGGCY
4168 T G A GCATGCCGAGTGTGGTGCGTATGTAAGTGTTGTGTGGTGTGTATGTATGTTGTTGTGTGGT
4168 T A A GCATGCCGAGTGTGGTGTGTATGTAAGTGTTGTGTGGTGTGTATGTATGTTGTTGTGTGGT
TCAATTATAGTAGTCATATACACACACAACACATACATACACAAGACACAACACACCACACACAACACATACATACACACCACACACAACACTTACATAC[GA]C
4168 IS [GA] ACCACACTCGGCATGCATTGCAGATCACAAATGCACACCACACACACACTGCATACATATACCATAGAGAACACACAACACCTACACATACCCCCATAC ctg53 14
4191 I A ATATTATACTTAGGTCTTTTATGAATTTAAATATCTTTAAACCTTGATTTTTTTTTTCTTA
4191 P T A CGCGCCGAGGTTGTGCTCTCTAGTTTCCT
4191 P C A ATGACGTGGCAGACCTGTGCTCTCTAGTTTCCT
4191 T T A GGAAAGGAAACTAGAGAGCACAAAAGAAAAAAAAAATCAAGGTTTAAAGATATTTAAATTCATAAAAGACCTAAGTATAATATGA
4191 T C A GGAAAGGAAACTAGAGAGCACAGAAGAAAAAAAAAATCAAGGTTTAAAGATATTTAAATTCATAAAAGACCTAAGTATAATATGA
TTACTTATATTAGTTACATCTTTATTTTACTAATTTTATCATATTATACTTAGGTCTTTTATGAATTTAAATATCTTTAAACCTTGATTTTTTTTTCTT[TC]TGTGC
4191 IS [TC] TCTCTAGTTTCCTTTCCAATTTTTTCCTCCTACAAGTAAAAGAGTTTCCTTTTAAAACATTTTAACCCCACAATTCTTTTTTAAAGGCTCGTTT ctg22fin11 22
4197 I A CCAGCCCAGGTAAGCTTTCATTGAGATCTTCCAAAAGT
4197 P G A ATGACGTGGCAGACGAAGGGTCTTTTGAAAAAAGGY
4197 P A A CGCGCCGAGGAAAGGGTCTTTTGAAAAAAGGY
4197 T G A TGCACCTTTTTTCAAAAGACCCTTCCTTTTGGAAGATCTCAATGAAAGCTTACCTGGGCTGGCT
4197 T A A TGCACCTTTTTTCAAAAGACCCTTTCTTTTGGAAGATCTCAATGAAAGCTTACCTGGGCTGGCT
CAGGACCTGGTATCGGCCCACAGACCAAGTCCTCCACAGAGGGCGAGCCAGGGTGGAGAAGAGCCAGCCCAGGTAAGCTTTCATTGAGATCTTCCAAAAG[
GA]AAGGGTCTTTTGAAAAAAGGTGCAGGGATAAGATAAGAGCACAAATTGGCCTGAGGATCAGAGTGCTCTGCTTTGACATCACCACTGGACCTGGCTGAT
4197 IS [GA] C ctg16105 5
4198 I S CGGGTGTAGAAACTCACTTGAGCGAGAACCCA
4198 P A S CGCGCCGAGGTGTGTCCAAGGCAGAT
4198 P G S ATGACGTGGCAGACCGTGTCCAAGGCAGA
4198 T A S AAACATCTGCCTTGGACACAGGGTTCTCGCTCAAGTGAGTTTCTACACCCGGT
4198 T G S AAACATCTGCCTTGGACACGGGGTTCTCGCTCAAGTGAGTTTCTACACCCGGT
CCCAGACTCCCTGCATCCCCAAGGAAGGGGCATCTCCAACATCATCATCCAACGAAGACTCAGCTGCAAATGGTTCTGCTGAAACATCTGCCTTGGACAC[A
4198 IS [AG] G]CGGTTCTCGCTCAAGTGAGTTTCTACACCCGGTGTTTCTCTTTACCTTTCTCATCTTTTTCTTTCTCATCTTTATTTTTAAAAATAATCCTATATATAAT MULTIPLE MULTIPLE
4254 I A GCAGCTTTTTTGCTGTTTAACCTCGTAAAGATCCTAAATGATTCTCAGAAGT
4254 P G A ATGACGTGGCAGACGACAATATAAAGAGATACAAAGTTAAATTC
4254 P A A CGCGCCGAGGAACAATATAAAGAGATACAAAGTTAAATTC
4254 T G A CAGTGAATTTAACTTTGTATCTCTTTATATTGTCCTTCTGAGAATCATTTAGGATCTTTACGAGGTTAAACAGCAAAAAAGCTGCCT
4254 T A A CAGTGAATTTAACTTTGTATCTCTTTATATTGTTCTTCTGAGAATCATTTAGGATCTTTACGAGGTTAAACAGCAAAAAAGCTGCCT
TGAAGGGAAGGTAGCATATAGAAGGCTCAGCTTACCACATTAAATTTAGGCAGCTTTTTTGCTGTTTAACCTCGTAAAGATCCTAAATGATTCTCAGAAG[GA]
4254 IS [GA] ACAATATAAAGAGATACAAAGTTAAATTCACTGGGTACATACACACCCAATTCAGACCAAGCCAATATCACAAGCTTACCTTCTGCAGAATCTCTCATAT ctg5305 11
4271 I S ACCGTGTAACTAATCCCGTGGATGCCTCCTT
4271 P G S CGCGCCGAGGCGTTATTTTTGTCCAAACGAAY
4271 P C S ATGACGTGGCAGACGGTTATTTTTGTCCAAACGAAY
4271 T G S CTGCTTCGTTTGGACAAAAATAACGAGGAGGCATCCACGGGATTAGTTACACGGTAT
4271 T C S CTGCTTCGTTTGGACAAAAATAACCAGGAGGCATCCACGGGATTAGTTACACGGTAT
GAAGAAAACAAAGCAGTCCATATTTAACATTTATTTTACTTTGCTGAGCAAGAATCATAGACAGCTACTACCACGGCTGCTTCGTTTGGACAAAAATAAC[GC]A
4271 IS [GC] GGAGGCATCCACGGGATTAGTTACACGGTATCAACTTACCACCACAGCAGAATCAACAGTGACTCGCTAATTAACAGAACCGTTTGCTAGAAAGCACTA ctg2846 11
4317 I A CCAATTTCAGTCTATCAGAAGGCCGGGCGTTTGT
4317 P G A ATGACGTGGCAGACGCAGCTTGGCAGCY
4317 P C A CGCGCCGAGGCCAGCTTGGCAGCTY
4317 T G A GCTGAGCTGCCAAGCTGCCAAACGCCCGGCCTTCTGATAGACTGAAATTGGGG
4317 T C A GCTGAGCTGCCAAGCTGGCAAACGCCCGGCCTTCTGATAGACTGAAATTGGGG
GGGCGCGGCCTAGCAACCACGAGGGGCGAGGCTCTGATGGGAATGGTCCACTGGAAATGGGACCACCCCAATTTCAGTCTATCAGAAGGCCGGGCGTTT
G[GC]CAGCTTGGCAGCTCAGCCAATCACAAGCTGCTTGTCGGTCCCCGCCCCGCCTTTCTCCTTAGGAAAACTGCAGGATGGACTCTTGCACATCACTACC
4317 IS [GC] TGC ctg2846 11
4323 I S CCTGACACAGGTACACCCTCCACCACAGT
4323 P C S ATGACGTGGCAGACGAGCGCACTGGTTC
4323 P T S CGCGCCGAGGAAGCGCACTGGTTC
4323 T C S CATGGAACCAGTGCGCTCCTGTGGTGGAGGGTGTACCTGTGTCAGGGC
4323 T T S CATGGAACCAGTGCGCTTCTGTGGTGGAGGGTGTACCTGTGTCAGGGC
AAACCCACAGCATGTTGACCACCAGGAGGAGACCCCATGTGACTCCAGGACCCTGGTTGATAACAACGTATCGAGATTCCTCACATGGAACCAGTGCGCT[C
4323 IS [CT] T]CTGTGGTGGAGGGTGTACCTGTGTCAGGGCAGGGGGTACGTGGACATTTTCTGCAGTTTTGATCAATTTTGCAATGAACTAAATCTGTGGTATAAAAAT ctg18466 16
4335 I A GGAACCAGATCCTGGACCCCTGGGTGTAA
4335 P C A ATGACGTGGCAGACCATCCTGTTCCGCC
4335 P T A CGCGCCGAGGTATCCTGTTCCGCCG
4335 T C A GGCGCGGCGGAACAGGATGTACACCCAGGGGTCCAGGATCTGGTTCCAG
4335 T T A GGCGCGGCGGAACAGGATATACACCCAGGGGTCCAGGATCTGGTTCCAG
CCATGAGCCCCGCCGGGCAGCTGTCCCGCACCACGGAGAAGGAGCTGCTCATCTACTTGCGCGTGGCCACCTGGAACCAGATCCTGGACCCCTGGGTGT
A[CT]ATCCTGTTCCGCCGCGCCGTGCTCCGGCGTCTCCAGCCTCGCCTCAGCACCCGGCCCAGGTCGCTGTCCCTCCAGCCCCAGCTCACGCAGCGCTC
4335 IS [CT] CGGGC ctg12387 2 TBXA2R
4365 I S CGGGGAGAGTGCTGCTGACAGCACAA
4365 P A S CGCGCCGAGGTGGCGACAGTGCTGY
4365 P G S ATGACGTGGCAGACCGGCGACAGTGCTY
4365 T A S TCCCCAGCACTGTCGCCATGTGCTGTCAGCAGCACTCTCCCCGAC
4365 T G S TCCCCAGCACTGTCGCCGTGTGCTGTCAGCAGCACTCTCCCCGAC
TGCAGGCTGCAGGGTTGGTCGGAGGGCGCTCGATGTCTTGCAAACTAAGAAAGCACACAACCTTGACCTGTGGCTTCTGCTGTTCCCCAGCACTGTCGCC[
AG]TGTGCTGTCAGCAGCACTCTCCCCGACTGGCACATCCCAGTGGAAGTTGTGCCGGACAGCACCAGTGATCTGTACAACTTCCAGGTGTCACCCATGCC
4365 IS [AG] CT ctg16820 16
4446 I A GTGAAGAAACCGTATCCATAAAGACCCGATTCCACCAAC
4446 P A A CGCGCCGAGGATGTGCTTTGAGAAGGATAG
4446 P T A ATGACGTGGCAGACTTGTGCTTTGAGAAGGATAG
4446 T A A AGGCCTATCCTTCTCAAAGCACATTTGGTGGAATCGGGTCTTTATGGATACGGTTTCTTCACCG
4446 T T A AGGCCTATCCTTCTCAAAGCACAATTGGTGGAATCGGGTCTTTATGGATACGGTTTCTTCACCG

FIGURE 129E

				ACCAGAGAACCAGGCTACAAGAGAAAAAGCAGAGGCCAAGAGTTTGAGGGGAGAAATAGTCGGTGAAGAAACCGTATCCATAAAGACCCGATTCCACCAA[A			
4448 IS	[AT]			T]TGTGCTTTGAGAAGGATAGGCCTTCATTAACAAAATGTATGTCTGGTTCCCCAGTAGAGCTCTACTGCCTCAACCAAGGGGATTTTTATGTCTGGGGCAG	ctg15907	6	CYP19
4486 I			S	CCCCCTCAAGTACCTCTGTGTGACCTCACAAGT			
4486 P	C		S	ATGACGTGGCAGACGCCTCCCAGGGCY			
4486 P	T		S	CGCGCCGAGGACCTCCCAGGGCCY			
4486 T	C		S	CTGAGGCCCTGGGAGGCCTTGTGAGGTCACACAGAGGTACTTGAGGGGGAC			
4486 T	T		S	CTGAGGCCCTGGGAGGTCTTGTGAGGTCACACAGAGGTACTTGAGGGGGAC			
				CAGAGGTTCTGAGGGACCCAGGCTCTTCCTCTGGGTAAAGGTCTGTAAGAAGGGGCTGGGGTAGCTCAGAGTAGCAGCTCACATCTGAGGCCCTGGGAG			
				G[CT]CTTGTGAGGTCACACAGAGGTACTTGAGGGGGACTGGAGGCCGTCTCTGGTCCCCAGGGCAAGGGAACAGCAGAACTTAGGGTCAGGGTCTCAGG			
4486 IS	[CT]			GAACC	ctg22fin3	22	LIF
4515 I			A	AGAACTACCAAGAGCAAACAACTTGTGTATCAGTCTGGTCAATTATAAGAAAA			
4515 P	C		A	ATGACGTGGCAGACCGTGGCTATTTCTTCCCY			
4515 P	T		A	CGCGCCGAGGTGTGGCTATTTCTTCCCTY			
4515 T	C		A	TTGCAGGGAAGAAATAGCCACGTTTCTTATAATTGACCAGACTGATACACAAGTTGTTTGCTCTTGGTAGTTCTCT			
4515 T	T		A	TTGCAGGGAAGAAATAGCCACATTTCTTATAATTGACCAGACTGATACACAAGTTGTTTGCTCTTGGTAGTTCTCT			
				ACAGCACATACACATAGTGTTTTCTCAGTTTACCAAGAGAACTACCAAGAGCAAACAACTTGTGTATCAGTCTGGTCAATTATAAGAAA[CT]GTGGCTATTTCT			
4515 IS	[CT]			TCCCTGCAATTTAGTAACTTGACATTTTTCTCTTTCTCTCTTTCTGTCTCTCTTTTTTGTAATCACAGCAGAATCTAAGAAGAAGAAA	MULTIPLE	3	
4540 I			A	TGAAGGGTCCGTGCTCTCCTCTTCTGGTCC			
4540 P	G		A	ATGACGTGGCAGACGTGTTCCCAGAGCCCY			
4540 P	T		A	CGCGCCGAGGTTGTTCCCAGAGCCCY			
4540 T	G		A	GAAAGGGCTCTGGGAACACGACCAGAAGAGGAGAGCACGGACCCTTCAGG			
4540 T	T		A	GAAAGGGCTCTGGGAACAAGACCAGAAGAGGAGAGCACGGACCCTTCAGG			
				GGGTGAGCCAACTGGACACTCAGACAGACACACAGACAGGTGGAGGCCCTGCTCTGCTCTACTCCTACTCCTGAAGGGTCCGTGCTCTCCTCTTCTGGTC[			
4540 IS	[GT]			GT]TGTTCCCAGAGCCCTTTCCCCGCCTGCCCCTTCGTTCTCCATCCACTTCACCACTGCCTTCCTCCTTCTGCTCCCCCTTGTCCAGAATCTCTCTCTCCTA	ctg14932	16	
4548 I			A	CTCTGCCACTTGCTCTCTTTCTGGCTGGTT			
4548 P	G		A	ATGACGTGGCAGACGTGGGAAGGATGGCGY			
4548 P	A		A	CGCGCCGAGGATGGGAAGGATGGCGY			
4548 T	G		A	AAGACGCCATCCTTCCCACACCAGCCAGAAAGAGAGCAAGTGGCAGAGCT			
4548 T	A		A	AAGACGCCATCCTTCCCATACCAGCCAGAAAGAGAGCAAGTGGCAGAGCT			
				AAGTTCTGCCTTCATGATTTCCAAAGCTTCAGTATTCCAAATCTCAGGTGAATAGGGTGGTATCCACTAAGCTCTGCCACTTGCTCTCTTTCTGGCTGGT[GA]			
4548 IS	[GA]			TGGGAAGGATGGCGTCTTTTTTTTTTTTTTTTTTTTTTTTGAGATGGAGTCTTGCTCTGTTACCCAAGCTGGATTGTAGTGTTGTGATCTCGGCTCACTGCAAC	ctg13103	9	
4549 I			S	TCAGAGAGTGGGCTCCTGCAGCCACC			
4549 P	C		S	ATGACGTGGCAGACGCTGGACAGTGAATTCTGY			
4549 P	A		S	CGCGCCGAGGTCTGGACAGTGAATTCTGY			
4549 T	C		S	TGACCAGAATTCACTGTCCAGCGTGGCTGCAGGAGCCCACTCTCTGAAG			
4549 T	A		S	TGACCAGAATTCACTGTCCAGAGTGGCTGCAGGAGCCCACTCTCTGAAG			
				ACCTAGTTGGAAATGGGAGTGATGGGCATGACTAAAGTCTTCCTCATCCCACCAGAGGCGCACTCAACTGTGGCTAGGGTGACCAGAATTCACTGTCCAG[			
				CA]GTGGCTGCAGGAGCCCACTCTCTGAAGATGGTGGGATTCAGAGGTGGGAGTAGAGTTGGGTGGTCTTGTGAGCTGAGCACTCTCCCAAAAGTGTCCC			
4549 IS	[CA]			CTA	ctg15665	20	
4557 I			S	CCTGCAATGAGATATTCCTTCTTTCCTCCAACGTCCAGA			
4557 P	G		S	ATGACGTGGCAGACCGAGACCCCACACA			
4557 P	A		S	CGCGCCGAGGTGAGACCCCACACAC			
4557 T	G		S	GGCAGTGTGTGGGGTCTCGCTGGACGTTGGAGGAAAGAAGGAATATCTCATTGCAGGTG			
4557 T	A		S	GGCAGTGTGTGGGGTCTCACTGGACGTTGGAGGAAAGAAGGAATATCTCATTGCAGGTG			
				CTTACATGTCCTCCTCCTTGTCTTTCCAGATGTTCAAAGGGCCTGAGAAGGATATAGAGTTTATCTACACGGCCCCCTCCTCGGCAGTGTGTGGGGTCTC[G			
4557 IS	[GA]			A]CTGGACGTTGGAGGAAAGAAGGAATATCTCATTGCAGGTGTGTATGAGTGGGGCCATCAGCCGGAGGCT	ctg13980	1	
4572 I			A	GGCGGCAGGATCTGAACTCGCTTTACCTA			
4572 P	T		A	CGCGCCGAGGTCTTGTTTGGAGCACAGY			
4572 P	C		A	ATGACGTGGCAGACCCTTGTTTGGAGCACAGY			
4572 T	T		A	GTCCCTGTGCTCCAAACAAGAAGGTAAAGCGAGTTCAGATCCTGCCGCCCA			
4572 T	C		A	GTCCCTGTGCTCCAAACAAGGAGGTAAAGCGAGTTCAGATCCTGCCGCCCA			
				ATCGAGTCTGAATCTGCACTACTCAACTTATAAACTGTCTGCAGACACCTGTTAGGGAAATTGCTGATCATGGGCGGCAGGATCTGAACTCGCTTTACCT[TC			
				]CTTGTTTGGAGCACAGGGACCGCCCAGCTAGAGGAGCACCAGCGCACTGCGCCCCAGCCCTGGGCGAGGGTGCGGAGGATTTGTTCTCGGTGCAATCCT			
4572 IS	[TC]			G	ctg19247	7	NPY2R
4627 I			S	ACCAGGCTTCGCAAGAGCACATTGGCATTTAAAT			
4627 P	C		S	ATGACGTGGCAGACGGAAGCCAGTTACTCATCY			
4627 P	G		S	CGCGCCGAGGCGAAGCCAGTTACTCATCY			
4627 T	C		S	CCCTGATGAGTAACTGGCTTCCTTTAAATGCCAATGTGCTCTTGCGAAGCCTGGTGA			
4627 T	G		S	CCCTGATGAGTAACTGGCTTCGTTTAAATGCCAATGTGCTCTTGCGAAGCCTGGTGA			
				CAGTACACATGGTTTCCTTTTTCCTCACCTGCTCTGTCCTTCTTAGGGGAGCTGAACTCACGGCTGAGCTCGGATACCACCCTGATGAGTAACTGGCTTC[C			
4627 IS	[CG]			G]TTTAAATGCCAATGTGCTCTTGCGAAGCCTGGTGAAAGTGGTGGGGCTGTATGGCTTCATGCTCAGCATATCGCCTCGACTCACCCTCCTTTCTCTGCTG	ctg14946	16	
4896 I			S	ACTCGAACAATCACTTGCTATGCTCTCTTAGCCTCAGTA			
4896 P	A		S	CGCGCCGAGGTTGCCCATCTGTGAAATGY			
4896 P	G		S	ATGACGTGGCAGACCTGCCCATCTGTGAAATY			
4896 T	A		S	TCCCCATTTCACAGATGGGCAAACTGAGGCTAAGAGAGCATAGCAAGTGATTGTTCGAGTCA			
4896 T	G		S	TCCCCATTTCACAGATGGGCAGACTGAGGCTAAGAGAGCATAGCAAGTGATTGTTCGAGTCA			
				CTCCTTTGGACTTGGGACTACTCTTGGGACATGGAATTATCCCCATTTCACAGATGGGCA[AG]ACTGAGGCTAAGAGAGCATAGCAAGTGATTGTTCGAGTC			
4896 IS	[AG]			AGGCCTACGGTGTCCCAGCCC	ctg14243	19	
4903 I			S	GCCAGAACCTGGGTATCAGTCAGCTGAGTAGTAGAA			
4903 P	G		S	ATGACGTGGCAGACCGAGGCCTGGGTGY			
4903 P	A		S	CGCGCCGAGGTGAGGCCTGGGTGY			
4903 T	G		S	CTGCCACCCAGGCCTCGTCTACTACTCAGCTGACTGATACCCAGGTTCTGGCAG			
4903 T	A		S	CTGCCACCCAGGCCTCATCTACTACTCAGCTGACTGATACCCAGGTTCTGGCAG			
				AAAGGCCACAGAGGTCTCAAAGACCCCAGAGGCTCGGGAGGCACCTGCCACCCAGGCCTC[GA]TCTACTACTCAGCTGACTGATACCCAGGTTCTGGCAG			
4903 IS	[GA]			CTGAAAACAAGAGTCTAGCAGCT	ctg15064	7	JCL-1
4978 I			S	GGCTTTCATCTGGAAACCCCCAGTGAAGAATGTC			
4978 P	A		S	CGCGCCGAGGTGTTTTGAATATTATGCTATATAGGATAG			
4978 P	T		S	ATGACGTGGCAGACAGTTTTGAATATTATGCTATATAGGATAG			
4978 T	A		S	TATACTATCCTATATAGCATAATATTCAAAACAACATTCTTCACTGGGGGTTTCCAGATGAAAGCCCA			
4978 T	T		S	TATACTATCCTATATAGCATAATATTCAAAACTACATTCTTCACTGGGGGTTTCCAGATGAAAGCCCA			
				TTCACTAAGCAACTCCTTCAACTCGAAATATACTATCCTATATAGCATAATATTCAAAAC[AT]ACATTCTTCACTGGGGGTTTCCAGATGAAAGCCCACATTTT			
4978 IS	[AT]			GTTAACATGACTCACTGAG	ctg14946	16	
5011 I			S	GCCATTCCCCTCTGAGAAATGTAATATTCAAGAGGCTCTTTATCATTAGTC			
5011 P	A		S	CGCGCCGAGGTTTTGCATGGCACAAAAAAY			
5011 P	T		S	ATGACGTGGCAGACATTTGCATGGCACAAAAAAY			
5011 T	A		S	AGGTTTTTTTGTGCCATGCAAAAACTAATGATAAAGAGCCTCTTGAATATTACATTTCTCAGAGGGGAATGGCTC			
5011 T	T		S	AGGTTTTTTTGTGCCATGCAAATACTAATGATAAAGAGCCTCTTGAATATTACATTTCTCAGAGGGGAATGGCTC			
				TTTGAAATGCCTCTTTCTTCTCTTGCCTGCCATGACCAAGGTTTTTTTGTGCCATGCAAA[AT]ACTAATGATAAAGAGCCTCTTGAATATTACATTTCTCAGAG			
5011 IS	[AT]			GGGAATGGCTCTAAATCAC	ctg15126	17	
5086 I			A	ACGGCTCAGTGACTTTTGGTTCCCACGACT			
5086 P	C		A	ATGACGTGGCAGACCTTGACAGAGACAGGGAY			
5086 P	A		A	CGCGCCGAGGATTGACAGAGACAGGGACY			
5086 T	C		A	CGAGGTCCCTGTCTCTGTCAAGGTCGTGGGAACCAAAAGTCACTGAGCCGTCC			
5086 T	A		A	CGAGGTCCCTGTCTCTGTCAATGTCGTGGGAACCAAAAGTCACTGAGCCGTCC			

FIGURE 129E

				TCCAGGCCCTGTGCTCAGAGGTGGGGGGAGGACGGCTCAGTGACTTTTGGTTCCCACGAC[CA]TTGACAGAGACAGGGACCTCGACGCATCCTCCATACC			
5086	IS	[CA]		CGCTGCGGGGAAATGGACCCCAC	ctg11	15	
5101	I		A	GGGCCTGCCTGTGGTCAAGAGTTTCCTGT			
5101	P	A	A	CGCGCCGAGGAGTCTGAATTTGAGGGTGY			
5101	P	G	A	ATGACGTGGCAGACGGTCTGAATTTGAGGGTGY			
5101	T	A	A	GGACCACCCTCAAATTCAGACTCAGGAAACTCTTGACCACAGGCAGGCCCAG			
5101	T	G	A	GGACCACCCTCAAATTCAGACCCAGGAAACTCTTGACCACAGGCAGGCCCAG			
				AGGTAAGAGTCTTGACTTCCTAGGTGGAACCTGGGCCTGCCTGTGGTCAAGAGTTTCCTG[AG]GTCTGAATTTGAGGGTGGTCCATGCTGAGGGCTCTGG			
5101	IS	[AG]		GGTTGTGATGAGTAGGGAATGGA	ctg22fin4	22	
5109	I		A	AGTCATTGAAGTTGTGAAAGTCTATTTTTTTTCCTGTAAATCTATTTTTTACAGAATT			
5109	P	A	A	CGCGCCGAGGATAAGAAACATCAATGACCTGA			
5109	P	G	A	ATGACGTGGCAGACGTAAGAAACATCAATGACCTG			
5109	T	A	A	CAGATCAGGTCATTGATGTTTCTTATATTCTGTAAAAAATAGATTTACAGGAAAAAAAATAGACTTTCACAACTTCAATGACTTT			
5109	T	G	A	CAGATCAGGTCATTGATGTTTCTTACATTCTGTAAAAAATAGATTTACAGGAAAAAAAATAGACTTTCACAACTTCAATGACTTT			
				TAAAGTCATTGAAGTTGTGAAAGTCTATTTTTTTTCCTGTAAATCTATTTTTTACAGAAT[AG]TAAGAAACATCAATGACCTGATCTGTCCTTCCTCCTCCTTCC			
5109	IS	[AG]		CGCTTCCCCCAAAATCAC	ctg25099	7	MGC5139
5117	I		A	ACAGGATGGGTGGGGAAGTCCCTACTTGAAAT			
5117	P	G	A	ATGACGTGGCAGACGGCCTCTCCCTACAC			
5117	P	A	A	CGCGCCGAGGAGCCTCTCCCTACAC			
5117	T	G	A	GTGGGTGTAGGGAGAGGCCTTTCAAGTAGGGACTTCCCCACCCATCCTGTCT			
5117	T	A	A	GTGGGTGTAGGGAGAGGCTTTTCAAGTAGGGACTTCCCCACCCATCCTGTCT			
				GTACCCTTGTGAGATGGTTTAGGGGAGAGACAGGATGGGTGGGGAAGTCCCTACTTGAAA[GA]GCCTCTCCCTACACCCACCCCCCGCTTCTCTTTTTGAC			
5117	IS	[GA]		AAAACTCAAGGCTTTCTTGGCC	ctg25099	7	
5122	I		S	GCTTAGGGCAGTCCCCTGGGAGCTT			
5122	P	C	S	ATGACGTGGCAGACGAGTAGGGGGATCCC			
5122	P	T	S	CGCGCCGAGGAAGTAGGGGGATCCC			
5122	T	C	S	GTCCGGGATCCCCCTACTCAGCTCCCAGGGGACTGCCCTAAGCTA			
5122	T	T	S	GTCCGGGATCCCCCTACTTAGCTCCCAGGGGACTGCCCTAAGCTA			
				GAGAGAGGAGGCTGGAGTACTCCTATCTCAGATCTGGAAGGAGTCCGGGATCCCCCTACT[CT]AGCTCCCAGGGGACTGCCCTAAGCTAGAAGAAGTGGA			
5122	IS	[CT]		TATTGGGATCTCTGACTCAAGAG	ctg17465	16	
5126	I		A	GCCAACATGGTGAAACTGTGTCTCTACTAAAAATACAAAAATTAGGCAGT			
5126	P	G	A	ATGACGTGGCAGACGGATGGTGGCATGTAC			
5126	P	A	A	CGCGCCGAGGAGATGGTGGCATGTACC			
5126	T	G	A	TACAGGTACATGCCACCATCCCTGCCTAATTTTTGTATTTTTAGTAGAGACACAGTTTCACCATGTTGGCCA			
5126	T	A	A	TACAGGTACATGCCACCATCTCTGCCTAATTTTTGTATTTTTAGTAGAGACACAGTTTCACCATGTTGGCCA			
				AGACCAGCCTGGCCAACATGGTGAAACTGTGTCTCTACTAAAAATACAAAAATTAGGCAG[GA]GATGGTGGCATGTACCTGTAGTCCCAGCTACCTGGGAG			
5126	IS	[GA]		GCTGAGGTGAGAGAGTTGCTTG	ctg15064	7	
5140	I		S	GACTCTATTGCCCACGGGACTGATAACTGAATTTCCATA			
5140	P	A	S	CGCGCCGAGGTGCAGGTAAAATTTAGGTTCCY			
5140	P	G	S	ATGACGTGGCAGACCGCAGGTAAAATTTAGGTTCY			
5140	T	A	S	CGTGGGAACCTAAATTTTACCTGCAATGGAAATTCAGTTATCAGTCCCGTGGGCAATAGAGTCAC			
5140	T	G	S	CGTGGGAACCTAAATTTTACCTGCGATGGAAATTCAGTTATCAGTCCCGTGGGCAATAGAGTCAC			
				TCACAGTTTTCAAATTTGCTGGGTACGGTGTACCGGCGTGGGAACCTAAATTTTACCTGC[AG]ATGGAAATTCAGTTATCAGTCCCGTGGGCAATAGAGTCA			
5140	IS	[AG]		CTGTATTTGACCTTAAAAAGT			
5214	I		A	GCTGGCTTTTGCACTGAGTAGTTGCAGTTGAATAGTTT			
5214	P	G	A	ATGACGTGGCAGACGTGACAGAGACCCTCTG			
5214	P	A	A	CGCGCCGAGGATGACAGAGACCCTCTG			
5214	T	G	A	GGGTCAGAGGGTCTCTGTCACAACTATTCAACTGCAACTACTCAGTGCAAAAGCCAGCCA			
5214	T	A	A	GGGTCAGAGGGTCTCTGTCATAACTATTCAACTGCAACTACTCAGTGCAAAAGCCAGCCA			
				TGTCTGTTTACATATTGTTTATGGCTGGCTTTTGCACTGAGTAGTTGCAGTTGAATAGTT[GA]TGACAGAGACCCTCTGACCCACAAAGGCAAAAATATTTGT			
5214	IS	[GA]		TCTCTAGTCTTTTTCAGAAA	ctg25099	7	
5216	I		S	TTTCATTTTGGTCTCACTTCAGTGCTGGTAGCT			
5216	P	C	S	ATGACGTGGCAGACGATGTTGAACTGATTTTGAAACA			
5216	P	T	S	CGCGCCGAGGAATGTTGAACTGATTTTGAAACA			
5216	T	C	S	GTGATGTTTCAAAATCAGTTCAACATCGCTACCAGCACTGAAGTGAGACCAAAATGAAACA			
5216	T	T	S	GTGATGTTTCAAAATCAGTTCAACATTGCTACCAGCACTGAAGTGAGACCAAAATGAAACA			
				TTAAAGCTTTTGGTGTTTTATTTGTCTAAAAACAGTGATGTTTCAAAATCAGTTCAACAT[CT]GCTACCAGCACTGAAGTGAGACCAAAATGAAACAAGATATA			
5216	IS	[CT]		AAAAAGCAATTTGATTAAA	ctg14932	16	
5218	I		S	AGTATCTTCTGTTGGCCTGCTCCCTGGGTAGC			
5218	P	A	S	CGCGCCGAGGTAGCTTGTGACTTCCCTAA			
5218	P	C	S	ATGACGTGGCAGACGAGCTTGTGACTTCCCT			
5218	T	A	S	AGTCTTAGGGAAGTCACAAGCTACTACCCAGGGAGCAGGCCAACAGAAGATACTCT			
5218	T	C	S	AGTCTTAGGGAAGTCACAAGCTCCTACCCAGGGAGCAGGCCAACAGAAGATACTCT			
				TAAAGGAAATTGGCAGCACTTTTCTTGGAGCAAGGCTCAGTCTTAGGGAAGTCACAAGCT[AC]CTACCCAGGGAGCAGGCCAACAGAAGATACTCTCCTCTA			
5218	IS	[AC]		TTCTAAGATTCCTCCAGTACA	ctg_na	NA	
5219	I		S	GGGCAGGACACACGATGTAGCATCTGCTTTGA			
5219	P	A	S	CGCGCCGAGGTCAATTTGAACCAATAAATTGAATC			
5219	P	G	S	ATGACGTGGCAGACCCAATTTGAACCAATAAATTGAATC			
5219	T	A	S	TTTAGATTCAATTTATTGGTTCAAATTGACAAAGCAGATGCTACATCGTGTGTCCTGCCCAG			
5219	T	G	S	TTTAGATTCAATTTATTGGTTCAAATTGGCAAAGCAGATGCTACATCGTGTGTCCTGCCCAG			
				CTCCTCTATTCTAAGATTCCTCCAGTACATACTTTAGATTCAATTTATTGGTTCAAATTG[AG]CAAAGCAGATGCTACATCGTGTGTCCTGCCCAGTATTAAGA			
5219	IS	[AG]		GTAGTCAATTTGTGGCCTC	ctg18466	16	
5252	I		S	GACCTGCACTGGGTGGCTCTATTCCCACT			
5252	P	T	S	CGCGCCGAGGATTGCCTCTTCGGTCTA			
5252	P	C	S	ATGACGTGGCAGACGTTGCCTCTTCGGTCT			
5252	T	T	S	CTATTAGACCGAAGAGGCAATGTGGGAATAGAGCCACCCAGTGCAGGTCTG			
5252	T	C	S	CTATTAGACCGAAGAGGCAACGTGGGAATAGAGCCACCCAGTGCAGGTCTG			
				CTGCTGCTGCTGTTGCAATACTGGTCTCGCACCTGGTATGCTATTAGACCGAAGAGGCAA[TC]GTGGGAATAGAGCCACCCAGTGCAGGTCTGGGTAAAGA			
5252	IS	[TC]		AGTATTATAATCTCCTCCTGGT	ctg19148	19	NCOA3
5263	I		S	ACTGTATCTACAGCAACCTGTGAAGTGGAAACTGTGATCTC			
5263	P	C	S	ATGACGTGGCAGACGCCCCAGCGCCY			
5263	P	A	S	CGCGCCGAGGTCCCCAGCGCCY			
5263	T	C	S	AGAGGGCGCTGGGGCAGATCACAGTTTCCACTTCACAGGTTGCTGTAGATACAGTTC			
5263	T	A	S	AGAGGGCGCTGGGGAAGATCACAGTTTCCACTTCACAGGTTGCTGTAGATACAGTTC			
				CCAAATGAGGTCCCGAGAGTTAGGGAATAGGGTGGAATCTTCTGGAAGAGGGCGCTGGGG[CA]AGATCACAGTTTCCACTTCACAGGTTGCTGTAGATACA			
5263	IS	[CA]		GTTCACTGCCCACAGAGATGAT	ctg18433	19	
5264	I		S	CCACCAGAAGGTTCAGGGTTCCATCTTGGAACTTCA			
5264	P	A	S	CGCGCCGAGGTGGATCACTTCTTGCTG			
5264	P	G	S	ATGACGTGGCAGACCGGATCACTTCTTGCTG			
5264	T	A	S	GGACCAGCAAGAAGTGATCCAGAAGTTCCAAGATGGAACCCTGAACCTTCTGGTGGCC			
5264	T	G	S	GGACCAGCAAGAAGTGATCCGGAAGTTCCAAGATGGAACCCTGAACCTTCTGGTGGCC			
				GTACCAGCCTCTTTCTCCTCCCTGCCCTCCGCCTGCAGAGGGACCAGCAAGAAGTGATCC[AG]GAAGTTCCAAGATGGAACCCTGAACCTTCTGGTGGCCA			
5264	IS	[AG]		CGAGTGTGGCGGAGGAGGGGCT	ctg15944	11	
5269	I		S	CCACTGGAACCCACTTCTCCACATCCACCT			
5269	P	C	S	ATGACGTGGCAGACGTCCCCGACCTGC			
5269	P	T	S	CGCGCCGAGGATCCCCGACCTGC			
5269	T	C	S	GGCGGCAGGTCGGGGACGGTGGATGTGGAGAAGTGGGTTCCAGTGGGC			
5269	T	T	S	GGCGGCAGGTCGGGGATGGTGGATGTGGAGAAGTGGGTTCCAGTGGGC			

FIGURE 129E

				GGCCCCTTGAACCAGCCGTGACACACACCTGTGGGAATGGCGCTGGCGGCAGGTCGGGGA[CT]GGTGGATGTGGAGAAGTGGGTTCCAGTGGGCTGTGG			
5269	IS	[CT]		ATGCCTCTTGGGGTTGATGTCGCC	ctg16508	19	
5286	I		S	GTGTCTATCATCGGCTCTCAGGGCGTATCTCCA			
5286	P	G	S	ATGACGTGGCAGACCAACTTGAGCTCCATCTG			
5286	P	A	S	CGCGCCGAGGTAACTTGAGCTCCATCTGT			
5286	T	G	S	GGAGACAGATGGAGCTCAAGTTGGGAGATACGCCCTGAGAGCCGATGATAGACACAA			
5286	T	A	S	GGAGACAGATGGAGCTCAAGTTAGGAGATACGCCCTGAGAGCCGATGATAGACACAA			
				CTGAGAGTAAATACTTGGCGCCTCCAGCTGCTGGCCAAGGAGACAGATGGAGCTCAAGTT[GA]GGAGATACGCCCTGAGAGCCGATGATAGACACAAGTC			
5286	IS	[GA]		CAGATCTCGGATTTTGATACTGT			LOC65243
5382	I		S	GGGAGGTTTGTGTCTGGGCTCACACTGACA			
5382	P	G	S	ATGACGTGGCAGACCTCCCCTCACTGTGTC			
5382	P	A	S	CGCGCCGAGGTTCCCCTCACTGTGTC			
5382	T	G	S	GAGAGACACAGTGAGGGGAGGTCAGTGTGAGCCCAGACACAAACCTCCCTG			
5382	T	A	S	GAGAGACACAGTGAGGGGAAGTCAGTGTGAGCCCAGACACAAACCTCCCTG			
				AACAGCCTGAGAGCCGAGGACACGGCTGTGTATTACTGTGCGAGAGACACAGTGAGGGGA[GA]GTCAGTGTGAGCCCAGACACAAACCTCCCTGCAGGGG			
5382	IS	[GA]		TCCGCAGGACCACCAGGGGGCGA	MULTIPLE	22	
5400	I		S	GGGGAGGGGAGCCTGGGAGTGTTTCTTAA			
5400	P	G	S	ATGACGTGGCAGACCCCTCAGACCCTTGGY			
5400	P	A	S	CGCGCCGAGGTCCTCAGACCCTTGGAY			
5400	T	G	S	CTGGTCCAAGGGTCTGAGGGTAAGAAACACTCCCAGGCTCCCCTCCCCAG			
5400	T	A	S	CTGGTCCAAGGGTCTGAGGATAAGAAACACTCCCAGGCTCCCCTCCCCAG			
				ACAATACATACTATTTGTTCCCAGGCTATTTCGTTCCCCAACTGGTCCAAGGGTCTGAGG[GA]TAAGAAACACTCCCAGGCTCCCCTCCCCAGCCTAAGACA			
5400	IS	[GA]		ACTTCATCATGCCAGGCGGGC	ctg15424	2	
5407	I		S	GCCCCTTTCGGGCTGAAGGCTGTCT			
5407	P	C	S	ATGACGTGGCAGACGAATAAGCACTTCAGCTGC			
5407	P	G	S	CGCGCCGAGGCAATAAGCACTTCAGCTG			
5407	T	C	S	AAGAGCAGCTGAAGTGCTTATTCGACAGCCTTCAGCCCGAAAGGGGCAA			
5407	T	G	S	AAGAGCAGCTGAAGTGCTTATTGGACAGCCTTCAGCCCGAAAGGGGCAA			
				CGAGCAGCGGGAGCTGGAAGATAAAATCCACCTTGGTGAAGAGCAGCTGAAGTGCTTATT[CG]GACAGCCTTCAGCCCGAAAGGGGCAAATAAGAGACCA			
5407	IS	[CG]		GTCCCCGGTGGAGGAGGGGCACG	ctg22fin3	22	APXL
5436	I		A	GTAGCTGAGCTCACTACACCAGTCATAACCAT			
5436	P	C	A	ATGACGTGGCAGACCCCACATTTCAAACAAGC			
5436	P	A	A	CGCGCCGAGGACCACATTTCAAACAAGC			
5436	T	C	A	CTTGGCTTGTTTGAAATGTGGGTGGTTATGACTGGTGTAGTGAGCTCAGCTACTT			
5436	T	A	A	CTTGGCTTGTTTGAAATGTGGTTGGTTATGACTGGTGTAGTGAGCTCAGCTACTT			
				AGAAGATTGATCCCAAGACGATATTACAAGTAGCTGAGCTCACTACACCAGTCATAACCA[CA]CCACATTTCAAACAAGCCAAGTCATTTATTTTGGAAATAAA			
5436	IS	[CA]		GTTTCAAATAGGCTTAGCA	ctg53	14	
5459	I		S	CCTGCCTAGGATCTGTGCAGACCCTGTCT			
5459	P	G	S	CGCGCCGAGGCCACCCAGTTGCTGAY			
5459	P	C	S	ATGACGTGGCAGACGCACCCAGTTGCTGY			
5459	T	G	S	GCTGTCAGCAACTGGGTGGGACAGGGTCTGCACAGATCCTAGGCAGGGT			
5459	T	C	S	GCTGTCAGCAACTGGGTGCGACAGGGTCTGCACAGATCCTAGGCAGGGT			
				GGTCCGCTGGCAAGGGGGGTGGACTCTAGAAGGAACAGGAGGGCTGTCAGCAACTGGGTG[GC]GACAGGGTCTGCACAGATCCTAGGCAGGGTGAGAAT			
5459	IS	[GC]		AGGTAGTACCTCGGTTCTGGGCTG	ctg53	14	
5469	I		A	GGCTTCGAGGACCTGTCCCATGTCCAGT			
5469	P	G	A	ATGACGTGGCAGACGCTGGCTCCCCAGY			
5469	P	C	A	CGCGCCGAGGCCTGGCTCCCCAGY			
5469	T	G	A	ATGGCTGGGGAGCCAGCCTGGACATGGGACAGGTCCTCGAAGCCGG			
5469	T	C	A	ATGGCTGGGGAGCCAGGCTGGACATGGGACAGGTCCTCGAAGCCGG			
				AGCCCCGACACCGTCTCGCCCTCCCTGAGCCCCGGCTTCGAGGACCTGTCCCATGTCCAG[GC]CTGGCTCCCCAGCCATCAACGGCCGCAGCCAGACAG			
5469	IS	[GC]		ATGACGAGGAGATGACGGGCGAAT	ctg53	14	MGC2749
5478	I		A	GGGTGATTTCTCCTGACTCTTTCTCTTCCCCGTCA			
5478	P	C	A	ATGACGTGGCAGACCCAGCTGTCCCCTACY			
5478	P	T	A	CGCGCCGAGGTCAGCTGTCCCCTACY			
5478	T	C	A	GGTGGTAGGGGACAGCTGGGACGGGGAAGAGAAAGAGTCAGGAGAAATCACCCAG			
5478	T	T	A	GGTGGTAGGGGACAGCTGAGACGGGGAAGAGAAAGAGTCAGGAGAAATCACCCAG			
				GATGGGGGCTTTGGGATCAGGCAGCTGGGTGATTTCTCCTGACTCTTTCTCTTCCCCGTC[CT]CAGCTGTCCCCTACCACCACCGGTCACAGATGTGAGCC			
5478	IS	[CT]		TTGAGTTGCAGCAGCTGCGGGA			
5499	I		S	GCTAGAGAACCAGTTGGAGAAACTGGGGCAGATT			
5499	P	T	S	CGCGCCGAGGAATACCACTGTCTTCCTTCY			
5499	P	C	S	ATGACGTGGCAGACGATACCACTGTCTTCCTTCY			
5499	T	T	S	ATGGGAAGGAAGACAGTGGTATTATCTGCCCCAGTTTCTCCAACTGGTTCTCTAGCAG			
5499	T	C	S	ATGGGAAGGAAGACAGTGGTATCATCTGCCCCAGTTTCTCCAACTGGTTCTCTAGCAG			
				GGGACTGAACACAGCCCTCATCCCCATTGTTTCTGGAAATGGGAAGGAAGACAGTGGTAT[TC]ATCTGCCCCAGTTTCTCCAACTGGTTCTCTAGCAGAGG			
5499	IS	[TC]		CTTGCTAACTTGAGCCCCTAAG	ctg53	14	
5562	I		A	GGAGCTCTTTCTTTCTGCATTGTTACTCACAATCGGCTTACT			
5562	P	C	A	ATGACGTGGCAGACCCCTCAAAGAACTCATCAGY			
5562	P	A	A	CGCGCCGAGGACCTCAAAGAACTCATCAGAY			
5562	T	C	A	CATTTCTGATGAGTTCTTTGAGGGGTAAGCCGATTGTGAGTAACAATGCAGAAAGAAAGAGCTCCTA			
5562	T	A	A	CATTTCTGATGAGTTCTTTGAGGTGTAAGCCGATTGTGAGTAACAATGCAGAAAGAAAGAGCTCCTA			
				GCTCATTATGACTTAGCTAGGAGCTCTTTCTTTCTGCATTGTTACTCACAATCGGCTTAC[CA]CCTCAAAGAACTCATCAGAAATGTCAGTATCCTGATCACTT			
5562	IS	[CA]		AAATGAAGGCCTTCTGGAC	ctg13361	9	
5564	I		A	TGTGACCCCAGCCCTTGTGAGCCAAT			
5564	P	G	A	ATGACGTGGCAGACGTTGCTCAGAGTCTAGCAY			
5564	P	C	A	CGCGCCGAGGCTTGCTCAGAGTCTAGCAY			
5564	T	G	A	CAGATGCTAGACTCTGAGCAACTTGGCTCACAAGGGCTGGGGTCACAGC			
5564	T	C	A	CAGATGCTAGACTCTGAGCAAGTTGGCTCACAAGGGCTGGGGTCACAGC			
				CCTGCTCTGTGACCAGTAGCTGCCAGGCTGTCTGCTGTGACCCCAGCCCTTGTGAGCCAA[GC]TTGCTCAGAGTCTAGCATCTGCCAGCCAGCTACGTGTG			
5564	IS	[GC]		TGGCTCTGGTCTGTGAGCCAGT	ctg23	17	
5565	I		S	GCAGGAAACTGGCTCAGGGCAGACAGAAT			
5565	P	C	S	ATGACGTGGCAGACGGACAGCGCTTGACY			
5565	P	G	S	CGCGCCGAGGCGACAGCGCTTGACY			
5565	T	C	S	TGTAGTCAAGCGCTGTCCTTCTGTCTGCCCTGAGCCAGTTTCCTGCCC			
5565	T	G	S	TGTAGTCAAGCGCTGTCGTTCTGTCTGCCCTGAGCCAGTTTCCTGCCC			
				CACCAGCTGTCTGTGTGTCCAGTCCATGCCAACCTACTTGCTATGTAGTCAAGCGCTGTC[CG]TTCTGTCTGCCCTGAGCCAGTTTCCTGCCCATCTACCTC			
5565	IS	[CG]		CTGCCGACCTCTTTCCTGCAG	ctg15907	6	
5570	I		S	CATACAACAGAAGGCATTAAGTTCCCTCTACTCCCCCT			
5570	P	C	S	ATGACGTGGCAGACGCCCCCACCCAGY			
5570	P	T	S	CGCGCCGAGGACCCCCACCCAGAY			
5570	T	C	S	TAATTCTGGGTGGGGGCGGGGGAGTAGAGGGAACTTAATGCCTTCTGTTGTATGAG			
5570	T	T	S	TAATTCTGGGTGGGGGTGGGGGAGTAGAGGGAACTTAATGCCTTCTGTTGTATGAG			
				GGTCTCAGTGTTTTTCTTCTACTCTGTCCCTAAAATTAAAAAGTTAATTCTGGGTGGGGG[CT]GGGGGAGTAGAGGGAACTTAATGCCTTCTGTTGTATGAG			
5570	IS	[CT]		TTGGTAGATAATTTTTAAAAT	ctg15907	6	
5615	I		A	CCTGGTGGGCTGGACACCAGGTTGT			
5615	P	G	A	ATGACGTGGCAGACGAGAGGGACCAGACGY			
5615	P	A	A	CGCGCCGAGGAAGAGGGACCAGACGY			
5615	T	G	A	CAGCCGTCTGGTCCCTCTCCAACCTGGTGTCCAGCCCACCAGGCC			
5615	T	A	A	CAGCCGTCTGGTCCCTCTTCAACCTGGTGTCCAGCCCACCAGGCC			

Subject to Protective Order Pursuant to Rule 26(c)

FIGURE 129E

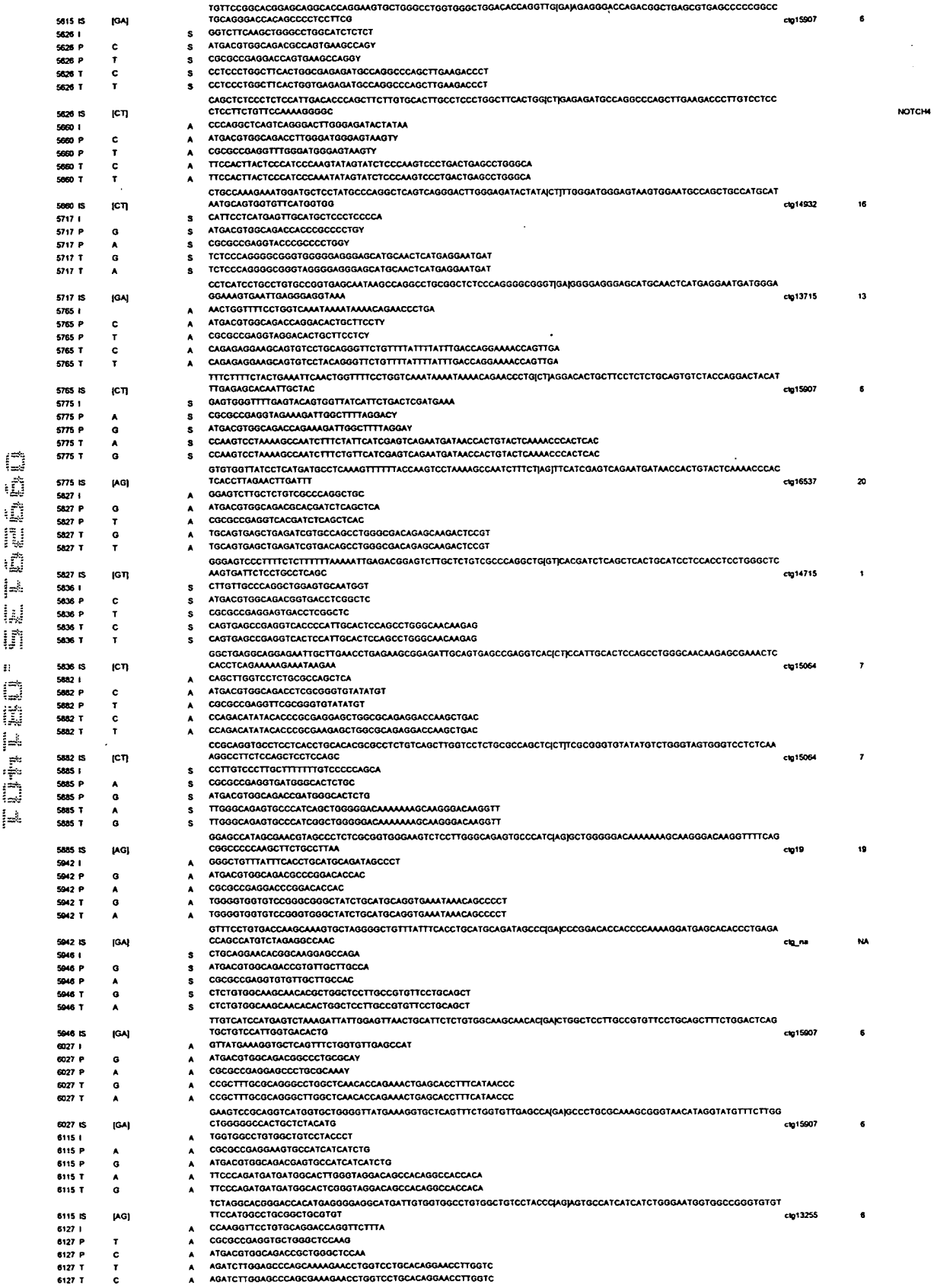

TGTTCCGGCACGGAGCAGGCACCAGGAAGTGCTGGGCCTGGTGGGCTGGACACCAGGTTG[GA]AGAGGGACCAGACGGCTGAGCGTGAGCCCCCGGCC
5615 tS [GA] TGCAGGGACCACAGCCCCTCCTTCG ctg15907 6
5626 I S GGTCTTCAAGCTGGGCCTGGCATCTCTCT
5626 P C S ATGACGTGGCAGACGCCAGTGAAGCCAGY
5626 P T S CGCGCCGAGGACCAGTGAAGCCAGGY
5626 T C S CCTCCCTGGCTTCACTGGCGAGAGATGCCAGGCCCAGCTTGAAGACCCT
5626 T T S CCTCCCTGGCTTCACTGGTGAGAGATGCCAGGCCCAGCTTGAAGACCCT
CAGCTCTCCCTCTCCATTGACACCCAGCTTCTTGTGCACTTGCCTCCCTGGCTTCACTGG[CT]GAGAGATGCCAGGCCCAGCTTGAAGACCCTTGTCCTCC
5626 tS [CT] CTCCTTCTGTTCCAAAAGGGGC NOTCH4
5660 I A CCCAGGCTCAGTCAGGGACTTGGGAGATACTATAA
5660 P C A ATGACGTGGCAGACCTTGGGATGGGAGTAAGTY
5660 P T A CGCGCCGAGGTTTGGGATGGGAGTAAGTY
5660 T C A TTCCACTTACTCCCATCCCAAGTATAGTATCTCCCAAGTCCCTGACTGAGCCTGGGCA
5660 T T A TTCCACTTACTCCCATCCCAAATATAGTATCTCCCAAGTCCCTGACTGAGCCTGGGCA
CTGCCAAAGAAATGGATGCTCCTATGCCCAGGCTCAGTCAGGGACTTGGGAGATACTATA[CT]TTGGGATGGGAGTAAGTGGAATGCCAGCTGCCATGCAT
5660 tS [CT] AATGCAGTGGTGTTCATGGTGG ctg14932 16
5717 I S CATTCCTCATGAGTTGCATGCTCCCTCCCCA
5717 P G S ATGACGTGGCAGACCACCCGCCCCTGY
5717 P A S CGCGCCGAGGTACCCGCCCCTGGY
5717 T G S TCTCCCAGGGGCGGGTGGGGGAGGGAGCATGCAACTCATGAGGAATGAT
5717 T A S TCTCCCAGGGGCGGGTAGGGGAGGGAGCATGCAACTCATGAGGAATGAT
CCTCATCCTGCCTGTGCCGGTGAGCAATAAGCCAGGCCTGCGGCTCTCCCAGGGGCGGGT[GA]GGGGAGGGAGCATGCAACTCATGAGGAATGATGGGA
5717 tS [GA] GGAAAGTGAATTGAGGGAGGTAAA ctg13715 13
5765 I A AACTGGTTTTCCTGGTCAAATAAAATAAAACAGAACCCTGA
5765 P C A ATGACGTGGCAGACCAGGACACTGCTTCCTY
5765 P T A CGCGCCGAGGTAGGACACTGCTTCCTCY
5765 T C A CAGAGAGGAAGCAGTGTCCTGCAGGGTTCTGTTTTATTTTATTTGACCAGGAAAACCAGTTGA
5765 T T A CAGAGAGGAAGCAGTGTCCTACAGGGTTCTGTTTTATTTTATTTGACCAGGAAAACCAGTTGA
TTTCTTTTCTACTGAAATTCAACTGGTTTTCCTGGTCAAATAAAATAAAACAGAACCCTG[CT]AGGACACTGCTTCCTCTCTGCAGTGTCTACCAGGACTACAT
5765 tS [CT] TTGAGAGCACAATTGCTAC ctg15907 6
5775 I S GAGTGGGTTTTGAGTACAGTGGTTATCATTCTGACTCGATGAAA
5775 P A S CGCGCCGAGGTAGAAAGATTGGCTTTTAGGACY
5775 P G S ATGACGTGGCAGACCAGAAAGATTGGCTTTTAGGAY
5775 T A S CCAAGTCCTAAAAGCCAATCTTTCTATTCATCGAGTCAGAATGATAACCACTGTACTCAAAACCCACTCAC
5775 T G S CCAAGTCCTAAAAGCCAATCTTTCTGTTCATCGAGTCAGAATGATAACCACTGTACTCAAAACCCACTCAC
GTGTGGTTATCCTCATGATGCCTCAAAGTTTTTTACCAAGTCCTAAAAGCCAATCTTTCT[AG]TTCATCGAGTCAGAATGATAACCACTGTACTCAAAACCCAC
5775 tS [AG] TCACCTTAGAACTTGATTT ctg16537 20
5827 I A GGAGTCTTGCTCTGTCGCCCAGGCTGC
5827 P G A ATGACGTGGCAGACGCACGATCTCAGCTCA
5827 P T A CGCGCCGAGGTCACGATCTCAGCTCAC
5827 T G A TGCAGTGAGCTGAGATCGTGCCAGCCTGGGCGACAGAGCAAGACTCCGT
5827 T T A TGCAGTGAGCTGAGATCGTGACAGCCTGGGCGACAGAGCAAGACTCCGT
GGGAGTCCCTTTTCTCTTTTTTAAAAATTGAGACGGAGTCTTGCTCTGTCGCCCAGGCTG[GT]CACGATCTCAGCTCACTGCATCCTCCACCTCCTGGGCTC
5827 tS [GT] AAGTGATTCTCCTGCCTCAGC ctg14715 1
5836 I S CTTGTTGCCCAGGCTGGAGTGCAATGGT
5836 P C S ATGACGTGGCAGACGGTGACCTCGGCTC
5836 P T S CGCGCCGAGGAGTGACCTCGGCTC
5836 T C S CAGTGAGCCGAGGTCACCCCATTGCACTCCAGCCTGGGCAACAAGAG
5836 T T S CAGTGAGCCGAGGTCACTCCATTGCACTCCAGCCTGGGCAACAAGAG
GGCTGAGGCAGGAGAATTGCTTGAACCTGAGAAGCGGAGATTGCAGTGAGCCGAGGTCAC[CT]CCATTGCACTCCAGCCTGGGCAACAAGAGCGAAACTC
5836 tS [CT] CACCTCAGAAAAAGAAATAAGAA ctg15064 7
5882 I A CAGCTTGGTCCTCTGCGCCAGCTCA
5882 P C A ATGACGTGGCAGACCTCGCGGGTGTATATGT
5882 P T A CGCGCCGAGGTTCGCGGGTGTATATGT
5882 T C A CCAGACATATACACCCGCGAGGAGCTGGCGCAGAGGACCAAGCTGAC
5882 T T A CCAGACATATACACCCGCGAAGAGCTGGCGCAGAGGACCAAGCTGAC
CCGCAGGTGCCTCCTCACCTGCACACGCGCCTCTGTCAGCTTGGTCCTCTGCGCCAGCTC[CT]TCGCGGGTGTATATGTCTGGGTAGTGGGTCCTCTCAA
5882 tS [CT] AGGCCTTCTCCAGCTCCTCCAGC ctg15064 7
5885 I S CCTTGTCCCTTGCTTTTTTTGTCCCCCAGCA
5885 P A S CGCGCCGAGGTGATGGGCACTCTGC
5885 P G S ATGACGTGGCAGACCGATGGGCACTCTG
5885 T A S TTGGGCAGAGTGCCCATCAGCTGGGGGACAAAAAAAGCAAGGGACAAGGTT
5885 T G S TTGGGCAGAGTGCCCATCGGCTGGGGGACAAAAAAAGCAAGGGACAAGGTT
GGAGCCATAGCGAACGTAGCCCTCTCGCGGTGGGAAGTCTCCTTGGGCAGAGTGCCCATC[AG]GCTGGGGGACAAAAAAAGCAAGGGACAAGGTTTTCAG
5885 tS [AG] CGGCCCCCAAGCTTCTGCCTTAA ctg19 19
5942 I A GGGCTGTTTATTTCACCTGCATGCAGATAGCCCT
5942 P G A ATGACGTGGCAGACGCCCGGACACCAC
5942 P A A CGCGCCGAGGACCCGGACACCAC
5942 T G A TGGGGTGGTGTCCGGGCGGGCTATCTGCATGCAGGTGAAATAAACAGCCCCT
5942 T A A TGGGGTGGTGTCCGGGTGGGCTATCTGCATGCAGGTGAAATAAACAGCCCCT
GTTTCCTGTGACCAAGCAAAGTGCTAGGGGCTGTTTATTTCACCTGCATGCAGATAGCCC[GA]CCCGGACACCACCCCAAAAGGATGAGCACACCCTGAGA
5942 tS [GA] CCAGCCATGTCTAGAGGCCAAC ctg_na NA
5946 I S CTGCAGGAACACGGCAAGGAGCCAGA
5946 P G S ATGACGTGGCAGACCGTGTTGCTTGCCA
5946 P A S CGCGCCGAGGTGTGTTGCTTGCCAC
5946 T G S CTCTGTGGCAAGCAACACGCTGGCTCCTTGCCGTGTTCCTGCAGCT
5946 T A S CTCTGTGGCAAGCAACACACTGGCTCCTTGCCGTGTTCCTGCAGCT
TTGTCATCCATGAGTCTAAAGATTATTGGAGTTAACTGCATTCTCTGTGGCAAGCAACAC[GA]CTGGCTCCTTGCCGTGTTCCTGCAGCTTTCTGGACTCAG
5946 tS [GA] TGCTGTCCATTGGTGACACTG ctg15907 6
6027 I A GTTATGAAAGGTGCTCAGTTTCTGGTGTTGAGCCAT
6027 P G A ATGACGTGGCAGACGGCCCTGCGCAY
6027 P A A CGCGCCGAGGAGCCCTGCGCAAAY
6027 T G A CCGCTTTGCGCAGGGCCTGGCTCAACACCAGAAACTGAGCACCTTTCATAACCC
6027 T A A CCGCTTTGCGCAGGGCTTGGCTCAACACCAGAAACTGAGCACCTTTCATAACCC
GAAGTCCGCAGGTCATGGTGCTGGGGTTATGAAAGGTGCTCAGTTTCTGGTGTTGAGCCA[GA]GCCCTGCGCAAAGCGGGTAACATAGGTATGTTTCTTGG
6027 tS [GA] CTGGGGGCCACTGCTCTACATG ctg15907 6
6115 I A TGGTGGCCTGTGGCTGTCCTACCCT
6115 P A A CGCGCCGAGGAAGTGCCATCATCATCTG
6115 P G A ATGACGTGGCAGACGAGTGCCATCATCATCTG
6115 T A A TTCCCAGATGATGATGGCACTTGGGTAGGACAGCCACAGGCCACCACA
6115 T G A TTCCCAGATGATGATGGCACTCGGGTAGGACAGCCACAGGCCACCACA
TCTAGGCACGGGACCACATGAGGGGAGGCATGATTGTGGTGGCCTGTGGCTGTCCTACCC[AG]AGTGCCATCATCATCTGGGAATGGTGGCCGGGTGTGT
6115 tS [AG] TTCCATGGCCTGCGGCTGCGTGT ctg13255 6
6127 I A CCAAGGTTCCTGTGCAGGACCAGGTTCTTTA
6127 P T A CGCGCCGAGGTGCTGGGCTCCAAG
6127 P C A ATGACGTGGCAGACCGCTGGGCTCCAA
6127 T T A AGATCTTGGAGCCCAGCAAAAGAACCTGGTCCTGCACAGGAACCTTGGTC
6127 T C A AGATCTTGGAGCCCAGCGAAAGAACCTGGTCCTGCACAGGAACCTTGGTC

FIGURE 129E

6127 IS	[TC]		AAAAAATCAAAGAACATGTCCGGTCTAAGACCAAGGTTCCTGTGCAGGACCAGGTTCTTTTC]GCTGGGCTCCAAGATCTTAAAGCCACGGAGAAGCCTCTC ATCTTATGGCATTGACAAAGA	ctg16857	14	UBD
6153 I		S	CGAGGAAACTCGTCCCCCCCACGTTAATA			
6153 P	G	S	ATGACGTGGCAGACCCTGACCGACTTTGC			
6153 P	A	S	CGCGCCGAGGTCTGACCGACTTTGCC			
6153 T	G	S	ATGTGGCAAAGTCGGTCAGGATTAACGTGGGGGGGACGAGTTTCCTCGGA			
6153 T	A	S	ATGTGGCAAAGTCGGTCAGAATTAACGTGGGGGGGACGAGTTTCCTCGGA			
6153 IS	[GA]		AAGGTGCATTTGGCTCTCACCAGAAATGGTTTGCTGGCTCCATGTGGCAAAGTCGGTCAG[GA]ATTAACGTGGGGGGGACGAGTTTCCTCGGAGCTGGGA TCTGTGTTAAGGAGCTGGGGTCC	MULTIPLE	MULTIPLE	
6165 I		A	CTCTCCCCTGCTATCTCAGCCTCCAGAGTT			
6165 P	C	A	ATGACGTGGCAGACCGCCTGCTTCTCTCG			
6165 P	A	A	CGCGCCGAGGAGCCTGCTTCTCTCG			
6165 T	C	A	CCTGCGAGAGAAGCAGGCGACTCTGGAGGCTGAGATAGCAGGGGAGAGCA			
6165 T	A	A	CCTGCGAGAGAAGCAGGCTACTCTGGAGGCTGAGATAGCAGGGGAGAGCA			
6165 IS	[CA]		CCAAGGACAAGCTGTCTGACCCCTAACCTTGCTCTCCCCTGCTATCTCAGCCTCCAGAGT[CA]GCCTGCTTCTCTCGCAGGCGCTTCTGTTTGGCTTCACG GTTCCTCCGGGAGATGGGAGAT	ctg17748	14	
6192 I		S	TGGAGGAAAAACCTACAGGATAATAAAGATCCATGGGGATTTTCAAAAAGT			
6192 P	T	S	CGCGCCGAGGATCGTGCATCCCTGT			
6192 P	C	S	ATGACGTGGCAGACGTCGTGCATCCCTGT			
6192 T	T	S	AAACACAGGGATGCACGATCTTTTTGAAAATCCCCATGGATCTTTATTATCCTGTAGGTTTTTCCTCCAGA			
6192 T	C	S	AAACACAGGGATGCACGACCTTTTTGAAAATCCCCATGGATCTTTATTATCCTGTAGGTTTTTCCTCCAGA			
6192 IS	[TC]		TGCTGGAAACAGATGATATGCTTAAAGGAAAAACAAAAGTGTAAACACAGGGATGCACGA[TC]CTTTTTGAAAATCCCCATGGATCTTTATTATCCTGTAGGT TTTTCCTCCAGAAGTTTGAG	ctg18433	19	
6219 I		A	GAGAGAGCGGAGCTTTTACCAAAAAGGCTGCATA			
6219 P	C	A	ATGACGTGGCAGACCCTCACTAATATACAGTAGGAAAC			
6219 P	T	A	CGCGCCGAGGTCTCACTAATATACAGTAGGAAAC			
6219 T	C	A	TGAAGTTTCCTACTGTATATTAGTGAGGATGCAGCCTTTTTGGTAAAAGCTCCGCTCTCTCTT			
6219 T	T	A	TGAAGTTTCCTACTGTATATTAGTGAGAATGCAGCCTTTTTGGTAAAAGCTCCGCTCTCTCTT			
6219 IS	[CT]		GAGCCTGGTGTGGAAAATCTACTGCAAGAGAGAGCGGAGCTTTTACCAAAAAGGCTGCAT[CT]CTCACTAATATACAGTAGGAAACTTCACCCAGGGTCTCT GGGTCTGGAAAGAAAATTGAA	ctg21fin5	21	
6248 I		S	CAATCCCCAGGAGGGAATCCTATCCTAGAGTCTATCTGTTAA			
6248 P	A	S	CGCGCCGAGGTCAGGACCCCATCTCAY			
6248 P	G	S	ATGACGTGGCAGACCCAGGACCCCATCTCY			
6248 T	A	S	GCCCTGAGATGGGGTCCTGATAACAGATAGACTCTAGGATAGGATTCCCTCCTGGGGATTGCG			
6248 T	G	S	GCCCTGAGATGGGGTCCTGGTAACAGATAGACTCTAGGATAGGATTCCCTCCTGGGGATTGCG			
6248 IS	[AG]		TACGGACTTGCTGTTAGGATGGGAATTATGGATCAGGAATTGCCCTGAGATGGGGTCCTG[AG]TAACAGATAGACTCTAGGATAGGATTCCCTCCTGGGGA TTGCGGCAGAGTGTACTTGCAA	ctg11	15	
6252 I		A	CGACTCTCTGAGACTCAGCGTTTCCAACAAGCT			
6252 P	A	A	CGCGCCGAGGAGGGCTTTGTCAGAAGAY			
6252 P	G	A	ATGACGTGGCAGACGGGGCTTTGTCAGAAGY			
6252 T	A	A	CAGTTCTTCTGACAAAGCCCTGCTTGTTGGAAACGCTGAGTCTCAGAGAGTCGCC			
6252 T	G	A	CAGTTCTTCTGACAAAGCCCCGCTTGTTGGAAACGCTGAGTCTCAGAGAGTCGCC			
6252 IS	[AG]		TCTTGGCTTCTCTTATTTCTAGGACTGGCGACTCTCTGAGACTCAGCGTTTCCAACAAGC[AG]GGGCTTTGTCAGAAGAACTGTGGGCTCCGAGGGAGGCC CTGGTCATGGGGTCACCTGCAT	ctg22fin3	22	
6303 I		A	TGACTCCTGTGCCCCACCATGGACACT			
6303 P	A	A	CGCGCCGAGGACTTTGCTACACACTCCT			
6303 P	G	A	ATGACGTGGCAGACGCTTTGCTACACACTCC			
6303 T	A	A	CAGCAGGAGTGTGTAGCAAAGTGTGTCCATGGTGGGGCACAGGAGTCACT			
6303 T	G	A	CAGCAGGAGTGTGTAGCAAAGCGTGTCCATGGTGGGGCACAGGAGTCACT			
6303 IS	[AG]		TGGGTTCAAAAGCTGAGCACGGGGCCTCGCTCAGTGACTCCTGTGCCCCACCATGGACAC[AG]CTTTGCTACACACTCCTGCTGCTGACCACCCCTTCCTG TGAGTGCTGTGGTCAGGGACTT	ctg22fin3	22	
6317 I		A	CCACATACGCTGAGCGCCTCACACTCCTATAACT			
6317 P	G	A	ATGACGTGGCAGACGCGCACATGCCC			
6317 P	A	A	CGCGCCGAGGACGCACATGCCCT			
6317 T	G	A	CATCAGGGCATGTGCGCGTTATAGGAGTGTGAGGCGCTCAGCGTATGTGGGT			
6317 T	A	A	CATCAGGGCATGTGCGTGTTATAGGAGTGTGAGGCGCTCAGCGTATGTGGGT			
6317 IS	[GA]		GACCCTCAACTCACACAGTCCTGAGACCCACATACGCTGAGCGCCTCACACTCCTATAAC[GA]CGCACATGCCCTGATGCACACACATTTTCAACACGCACT TACTCTACCCTTCAGGCATGG	ctg17042	11	
6339 I		A	TGGGGATATGCGTAAGAGGAAGTTGAGTACCCAATTTTGTTTTTAC			
6339 P	T	A	CGCGCCGAGGTGATTTTTCTTAAAAAGAATCCCTAAY			
6339 P	G	A	ATGACGTGGCAGACGGATTTTTCTTAAAAAGAATCCCTY			
6339 T	T	A	ATTTTTAGGGATTCTTTTTAAGAAAAATCATAAAAACAAAATTGGGTACTCAACTTCCTCTTACGCATATCCCCAAA			
6339 T	G	A	ATTTTTAGGGATTCTTTTTAAGAAAAATCCTAAAAACAAAATTGGGTACTCAACTTCCTCTTACGCATATCCCCAAA			
6339 IS	[TG]		AGTTCATGGGCATTTTGGGGATATGCGTAAGAGGAAGTTGAGTACCCAATTTTGTTTTTA[TG]GATTTTTCTTAAAAAGAATCCCTAAAAATTATGTGAGATTT CAGGCCCCACAAAACTTGG	ctg15330	9	
6372 I		S	CCAAGTCATTAAGTATGCAAAAATTGCATACACACAAATAGAAATAGTC			
6372 P	C	S	ATGACGTGGCAGACGCCTTTCTAGACTTTCTGATTY			
6372 P	A	S	CGCGCCGAGGTCCTTTCTAGACTTTCTGATTGY			
6372 T	C	S	TTTGCAATCAGAAAGTCTAGAAAGGCACTATTTCTATTTGTGTGTATGCAATTTTTGCATACTTAATGACTTGGTA			
6372 T	A	S	TTTGCAATCAGAAAGTCTAGAAAGGAACTATTTCTATTTGTGTGTATGCAATTTTTGCATACTTAATGACTTGGTA			
6372 IS	[CA]		GGGAAATGCTCAGATTTCATTATTGTATTCAGGATTTTGCAATCAGAAAGTCTAGAAAGG[CA]ACTATTTCTATTTGTGTGTATGCAATTTTTGCATACTTAAT GACTTGGTATGGTTATTGT	ctg16291	9	
6375 I		S	TGATTCTTGATGCACAGAGCTTTATGTCTGTGGTAA			
6375 P	A	S	CGCGCCGAGGTGTTCATGTAAATGCTTATGATGY			
6375 P	G	S	ATGACGTGGCAGACCGTTCATGTAAATGCTTATGATY			
6375 T	A	S	TTGGCATCATAAGCATTTACATGAACATACCACAGACATAAAGCTCTGTGCATCAAGAATCATT			
6375 T	G	S	TTGGCATCATAAGCATTTACATGAACGTACCACAGACATAAAGCTCTGTGCATCAAGAATCATT			
6375 IS	[AG]		CATCACCTGTGGGAGAAAGACTTGATTTTAACAATTGGCATCATAAGCATTTACATGAAC[AG]TACCACAGACATAAAGCTCTGTGCATCAAGAATCATTTTAA AGGAAACAATCAGTGAACC	ctg16291	9	
6412 I		S	GCGAGAAACCCTGACTGCACAGATCCATCCA			
6412 P	G	S	ATGACGTGGCAGACCGGGACAGCACCGY			
6412 P	A	S	CGCGCCGAGGTGGGACAGCACCGY			
6412 T	G	S	CTCACGGTGCTGTCCCGGGATGGATCTGTGCAGTCAGGGTTTCTCGCTG			
6412 T	A	S	CTCACGGTGCTGTCCCAGGATGGATCTGTGCAGTCAGGGTTTCTCGCTG			
6412 IS	[GA]		CTGTGATTTCCTCTTCCCCAGAGCCCCACAGTCTTTGTTACAACCTCACGGTGCTGTCCC[GA]GGATGGATCTGTGCAGTCAGGGTTTCTCGCTGAGGGAC ATCTGGATGGTCAGCTCTTCCT	ctg25099	7	
6419 I		A	GGGAGAGGCTTCATCAGCCTGCCTGGT			
6419 P	A	A	CGCGCCGAGGAGTCTGGTGTCCAGATAAGY			
6419 P	C	A	ATGACGTGGCAGACCGTCTGGTGTCCAGATY			
6419 T	A	A	GCATCTTATCTGGACACCAGACTCCAGGCAGGCTGATGAAGCCTCTCCCCG			
6419 T	C	A	GCATCTTATCTGGACACCAGACGCCAGGCAGGCTGATGAAGCCTCTCCCCG			
6419 IS	[AC]		AACAGACAGAAGCCTCTGAAGCCATCGGAGCCCGGGGAGAGGCTTCATCAGCCTGCCTGG[AC]GTCTGGTGTCCAGATAAGATGCTAAGGCAGATGCCCA GAGGAAACAATGACAGGGGTATG	MULTIPLE	MULTIPLE	
6477 I		S	CCAATGCATAGGTCTCAATATTGACTGATGCTCTCTCCACA			
6477 P	G	S	ATGACGTGGCAGACCTCCTAGCATTACTTTTAAACTTCY			
6477 P	A	S	CGCGCCGAGGTTCCTAGCATTACTTTTAAACTTCY			
6477 T	G	S	TCCAGAAGTTTAAAAGTAATGCTAGGAGGTGGAGAGAGCATCAGTCAATATTGAGACCTATGCATTGGGG			
6477 T	A	S	TCCAGAAGTTTAAAAGTAATGCTAGGAAGTGGAGAGAGCATCAGTCAATATTGAGACCTATGCATTGGGG			

FIGURE 129E

				CTTCAATCGTGACTTGGGCAGTGGTAGGCAAGTTCCAGAAGTTTAAAAGTAATGCTAGGA[GA]GTGGAGAGAGCATCAGTCAATATTGAGACCTATGCATTG			
6477	IS	[GA]		GGGTGAAAAGATGTGGCCCTG	ctg16291	9	
6486	I		S	CCAGCTCTGAAACAGAATGCAGAGTCAAGGGGATTTCA			
6486	P	A	S	CGCGCCGAGGTGACAGCTTCATTCCCAY			
6486	P	G	S	ATGACGTGGCAGACCGACAGCTTCATTCCCY			
6486	T	A	S	GAATTGGGAATGAAGCTGTCAGAAATCCCCTTGACTCTGCATTCTGTTTCAGAGCTGGTG			
6486	T	G	S	GAATTGGGAATGAAGCTGTCGGAAATCCCCTTGACTCTGCATTCTGTTTCAGAGCTGGTG			
				ACAGACCCTCCTACAAGATGAGATAGCAGAAGACTATGGTGAATTGGGAATGAAGCTGTC[AG]GAAATCCCCTTGACTCTGCATTCTGTTTCAGAGCTGGTG			
6486	IS	[AG]		CGGCTCTGCTTGCGCAGATCT	ctg16114	X	BAZ1B
6565	I		S	GGCTGGGGACATGTTATGGACTCAGCGTCA			
6565	P	A	S	CGCGCCGAGGTTCCCTGTCCCTGC			
6565	P	G	S	ATGACGTGGCAGACCTCCCTGTCCCTGC			
6565	T	A	S	ACCTGCAGGGACAGGGAAGACGCTGAGTCCATAACATGTCCCCAGCCCC			
6565	T	G	S	ACCTGCAGGGACAGGGAGGACGCTGAGTCCATAACATGTCCCCAGCCCC			
				AGTAGGGGTAAAGCACGTCAACGGGCAGCTCCACAAACACCGGACCTGCAGGGACAGGGA[AG]GACGCTGAGTCCATAACATGTCCCCAGCCCCTCGGCC			
6565	IS	[AG]		CCAGCACTGCTCAGCATCACCAT	ctg14243	19	
6566	I		S	TCTAATGCCATTTCACTCTTTATCCAAACCAAATTATAAAACATCATCAA			
6566	P	G	S	ATGACGTGGCAGACCATGTCCTCTGTGTGTG			
6566	P	A	S	CGCGCCGAGGTATGTCCTCTGTGTGTGT			
6566	T	G	S	CATCACACACACAGAGGACATGTGATGATGTTTTATAATTTGGTTTGGATAAAGAGTGAAATGGCATTAGAAA			
6566	T	A	S	CATCACACACACAGAGGACATATGATGATGTTTTATAATTTGGTTTGGATAAAGAGTGAAATGGCATTAGAAA			
				CTTTGAACAAAACAAACAAACAAACAAACAAACAAAAAACCATCACACACACAGAGGACAT[GA]TGATGATGTTTTATAATTTGGTTTGGATAAAGAGTGAAATG			
6568	IS	[GA]		GCATTAGAAAATGCTTTGA	ctg14243	19	
6580	I		A	GCTCTGGCTGTCCAAACCTGACGGAGTTT			
6580	P	C	A	CGCGCCGAGGCCAGGTGTGCCAATC			
6580	P	G	A	ATGACGTGGCAGACGCAGGTGTGCCAATC			
6580	T	C	A	ACTGGATTGGCACACCTGGAACTCCGTCAGGTTTGGACAGCCAGAGCCT			
6580	T	G	A	ACTGGATTGGCACACCTGCAACTCCGTCAGGTTTGGACAGCCAGAGCCT			
				GCGTCATGTGGTGGCGCCCCCGCAGTTCGGAGGCTCTGGCTGTCCAAACCTGACGGAGTT[CG]CAGGTGTGCCAATCCAGTCCATGCGAGGCCGAGGAG			
6580	IS	[CG]		CTCAGGTACAGCCTGCATGTGGGG	ctg14243	19	
6582	I		S	TGCTCTCTCCACCTCCTAGCATTACTTTTAAACTTCTGGAACA			
6582	P	A	S	CGCGCCGAGGTTGCCTACCACTGCC			
6582	P	G	S	ATGACGTGGCAGACCTGCCTACCACTGCC			
6582	T	A	S	CTTGGGCAGTGGTAGGCAAGTTCCAGAAGTTTAAAAGTAATGCTAGGAGGTGGAGAGAGCATC			
6582	T	G	S	CTTGGGCAGTGGTAGGCAGGTTCCAGAAGTTTAAAAGTAATGCTAGGAGGTGGAGAGAGCATC			
				CCTTCCCCTTGGAAACTTTGGTTGGCTCGGCTTCAATCGTGACTTGGGCAGTGGTAGGCA[AG]GTTCCAGAAGTTTAAAAGTAATGCTAGGAGGTGGAGAG			
6582	IS	[AG]		AGCATCAGTCAATATTGAGACC	ctg15944	11	
6612	I		A	TGCATTTTGGAATTTTTCTTCATACTAACACATGATAAAAGATAAATTTACCTTCTTTAA			
6612	P	C	A	ATGACGTGGCAGACCGTCTTTCAGACTTGAAGG			
6612	P	T	A	CGCGCCGAGGTGTCTTTCAGACTTGAAGG			
6612	T	C	A	ACAGCCTTCAAGTCTGAAAGACGTAAAGAAGGTAAATTTATCTTTTATCATGTGTTAGTATGAAGAAAAATTCCAAAATGCAA			
6612	T	T	A	ACAGCCTTCAAGTCTGAAAGACATAAAGAAGGTAAATTTATCTTTTATCATGTGTTAGTATGAAGAAAAATTCCAAAATGCAA			
				TTGCATTTTGGAATTTTTCTTCATACTAACACATGATAAAAGATAAATTTACCTTCTTTA[CT]GTCTTTCAGACTTGAAGGCTGTGTGGAAGATCAAGGAGTTA			
6612	IS	[CT]		CCTCTCAAGAAGGACTTCT	ctg13740	5	
6624	I		S	TCGCACCTGCCACCAGCCCCT			
6624	P	T	S	CGCGCCGAGGAAAGGCTGGGACTACCY			
6624	P	C	S	ATGACGTGGCAGACGAAGGCTGGGACTACCY			
6624	T	T	S	CTGTGGTAGTCCCAGCCTTTGGGGCTGGTGGCAGGTGCGACA			
6624	T	C	S	CTGTGGTAGTCCCAGCCTTCGGGGGCTGGTGGCAGGTGCGACA			
				AGTGATGTTTTGCAGGAGGCGTCGAACACTGGAAACAGGTTCTGTGGTAGTCCCAGCCTT[TC]GGGGCTGGTGGCAGGTGCGACAGGTTGTACATGGGCA			
6624	IS	[TC]		GGAGTGTTAACACTTCTAATCAG	ctg15064	7	
6645	I		S	CAGATTTCTGAAGTTCGACAAGCAGACAAAGATGGGGAC			
6645	P	A	S	CGCGCCGAGGTGGAGGTTCCTGGTGY			
6645	P	T	S	ATGACGTGGCAGACAGGAGGTTCCTGGTGY			
6645	T	A	S	CCTGCACCAGGAACCTCCATCCCCATCTTTGTCTGCTTGTCGAACTTCAGAAATCTGCA			
6645	T	T	S	CCTGCACCAGGAACCTCCTTCCCCATCTTTGTCTGCTTGTCGAACTTCAGAAATCTGCA			
				TCTTAGTTATCTTGCATGCTCTGGTCTTTGCATACGCTGCTCCCTGCACCAGGAACCTCC[AT]TCCCCATCTTTGTCTGCTTGTCGAACTTCAGAAATCTGCA			
6645	IS	[AT]		AGGGTCAGCTTAGAGGTCAC	ctg15064	7	
6647	I		A	GTGAGTCTGCTGAGCATCCTGCCCCAAA			
6647	P	C	A	ATGACGTGGCAGACCGGGAGGAAGTGTTTGY			
6647	P	T	A	CGCGCCGAGGTGGGAGGAAGTGTTTGGY			
6647	T	C	A	AGCTCCAAACACTTCCTCCCGTTGGGGCAGGATGCTCAGCAGACTCACCC			
6647	T	T	A	AGCTCCAAACACTTCCTCCCATTGGGGCAGGATGCTCAGCAGACTCACCC			
				TGGAGGGGCTTCGACAGGTGTGCTGGATTTGGGGTGAGTCTGCTGAGCATCCTGCCCCAA[CT]GGGAGGAAGTGTTTGGAGCTTTCTTGTTTCTCCATGTT			
6647	IS	[CT]		AGGATTAGGCTTTGTTTGCATG	ctg13206	14	
6654	I		S	CAACAACGGCAGCAGCAGCAT			
6654	P	T	S	CGCGCCGAGGACAGCAGCAACAGCY			
6654	P	C	S	ATGACGTGGCAGACGCAGCAGCAACAGCY			
6654	T	T	S	TCTTGCTGTTGCTGCTGTTGCTGCTGCTGCTGCCGTTGTTGCT			
6654	T	C	S	TCTTGCTGTTGCTGCTGCTGCTGCTGCTGCTGCCGTTGTTGCT			
				CCCCGCATCCCCTTGGTTCATGTGCCTGAACAGTTCCTGGTATTCTTGCTGTTGCTGCTG[TC]TGCTGCTGCTGCTGCCGTTGTTGCTGCTGCCTTTTAATG			
6654	IS	[TC]		AGCTGTGCAAACTCTGTTGGG			
6657	I		S	GACTAGTGAAGGACAGATGACCCCTGAACAGCACT			
6657	P	T	S	CGCGCCGAGGAGGTTTGGACTGTATGGGY			
6657	P	C	S	ATGACGTGGCAGACGGGTTTGGACTGTATGGY			
6657	T	T	S	CGGACCCATACAGTCCAAACCTGTGCTGTTCAGGGGTCATCTGTCCTTCACTAGTCTG			
6657	T	C	S	CGGACCCATACAGTCCAAACCCGTGCTGTTCAGGGGTCATCTGTCCTTCACTAGTCTG			
				AGGGCAGACTGTATTTATTTACAACAATTTGTGTATAAGCGGACCCATACAGTCCAAACC[TC]GTGCTGTTCAGGGGTCATCTGTCCTTCACTAGTCTGGGG			
6657	IS	[TC]		TTGCCCCCCGTGGATTTCCTG	ctg19247	7	
6658	I		A	GCCAAGTTTTGCATTATTCTCAGAGGAGCTCAGCAGATTCT			
6658	P	A	A	CGCGCCGAGGAGTGAACAGGAGCCTTY			
6658	P	G	A	ATGACGTGGCAGACGGTGAACAGGAGCCTY			
6658	T	A	A	GTTCAAGGCTCCTGTTCACTGAATCTGCTGAGCTCCTCTGAGAATAATGCAAAACTTGGCTA			
6658	T	G	A	GTTCAAGGCTCCTGTTCACCGAATCTGCTGAGCTCCTCTGAGAATAATGCAAAACTTGGCTA			
				GGCCACATGGTGGTAGAATAGCCAAGTTTTGCATTATTCTCAGAGGAGCTCAGCAGATTC[AG]GTGAACAGGAGCCTTGAACTCCATGATGTCGCCCTGCT			
6658	IS	[AG]		CCCCTCTTTTTGGGAAGAACGC	ctg25099	7	
6659	I		A	TCAGCAGATTCAGTGAACAGGAGCCTTGAACTCCT			
6659	P	A	A	CGCGCCGAGGATGATGTCGCCCTGCY			
6659	P	G	A	ATGACGTGGCAGACGTGATGTCGCCCTGY			
6659	T	A	A	GGGAGCAGGGCGACATCATGGAGTTCAAGGCTCCTGTTCACTGAATCTGCTGAGC			
6659	T	G	A	GGGAGCAGGGCGACATCACGGAGTTCAAGGCTCCTGTTCACTGAATCTGCTGAGC			
				AAGTTTTGCATTATTCTCAGAGGAGCTCAGCAGATTCAGTGAACAGGAGCCTTGAACTCC[AG]TGATGTCGCCCTGCTCCCCTCTTTTTGGGAAGAACGCGT			
6659	IS	[AG]		TGCTAGCCCTGACATTTCTCT	ctg25099	7	
6665	I		A	AGCAGGTACTCGCAGGTGCCTTGGAAATA			
6665	P	C	A	ATGACGTGGCAGACCGAATCGGTGCCCAY			
6665	P	T	A	CGCGCCGAGGTGAATCGGTGCCCATY			
6665	T	C	A	CTGGATGGGCACCGATTCGATTTCCAAGGCACCTGCGAGTACCTGCTGA			
6665	T	T	A	CTGGATGGGCACCGATTCAATTTCCAAGGCACCTGCGAGTACCTGCTGA			

FIGURE 129E

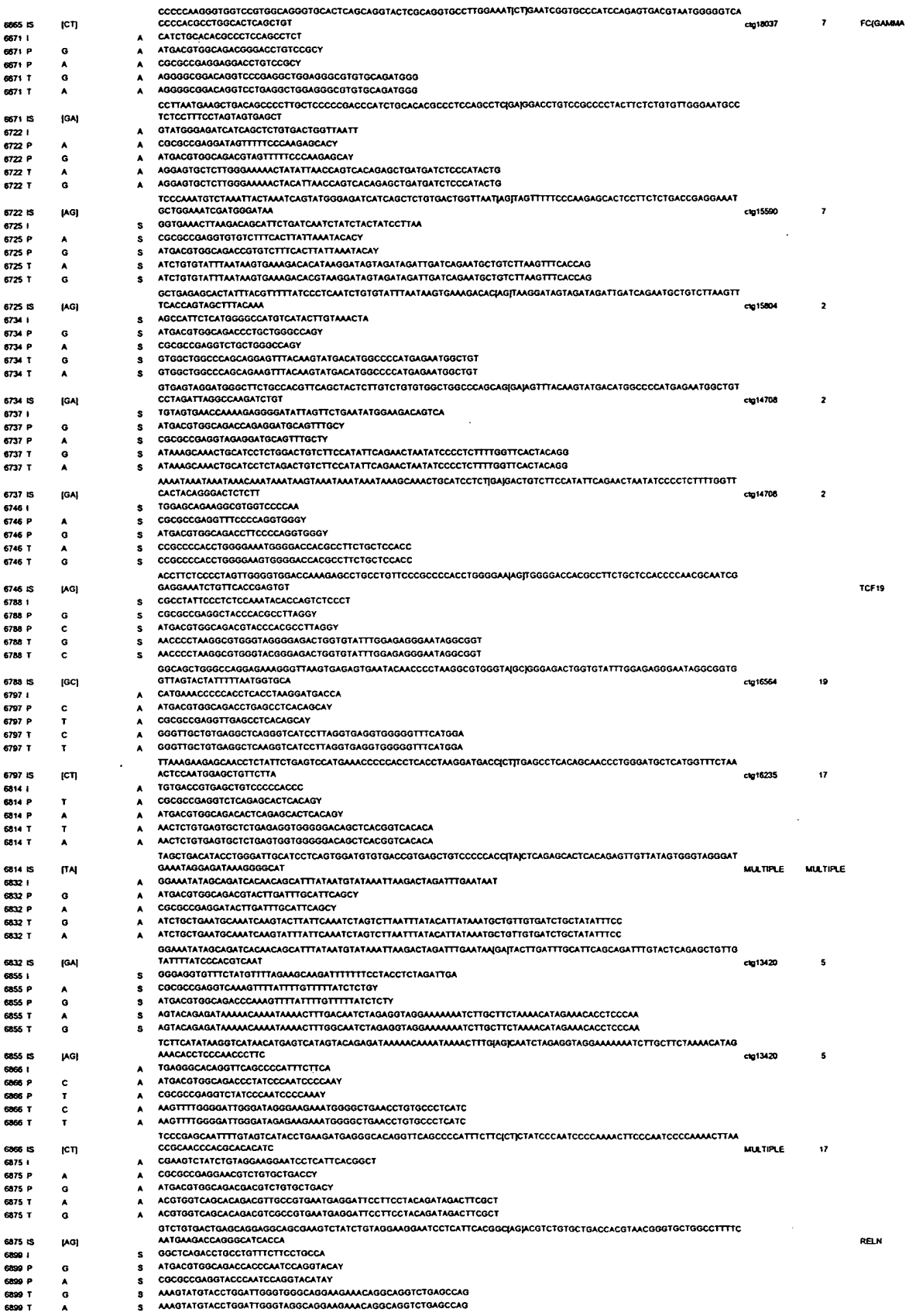


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FIGURE 129E

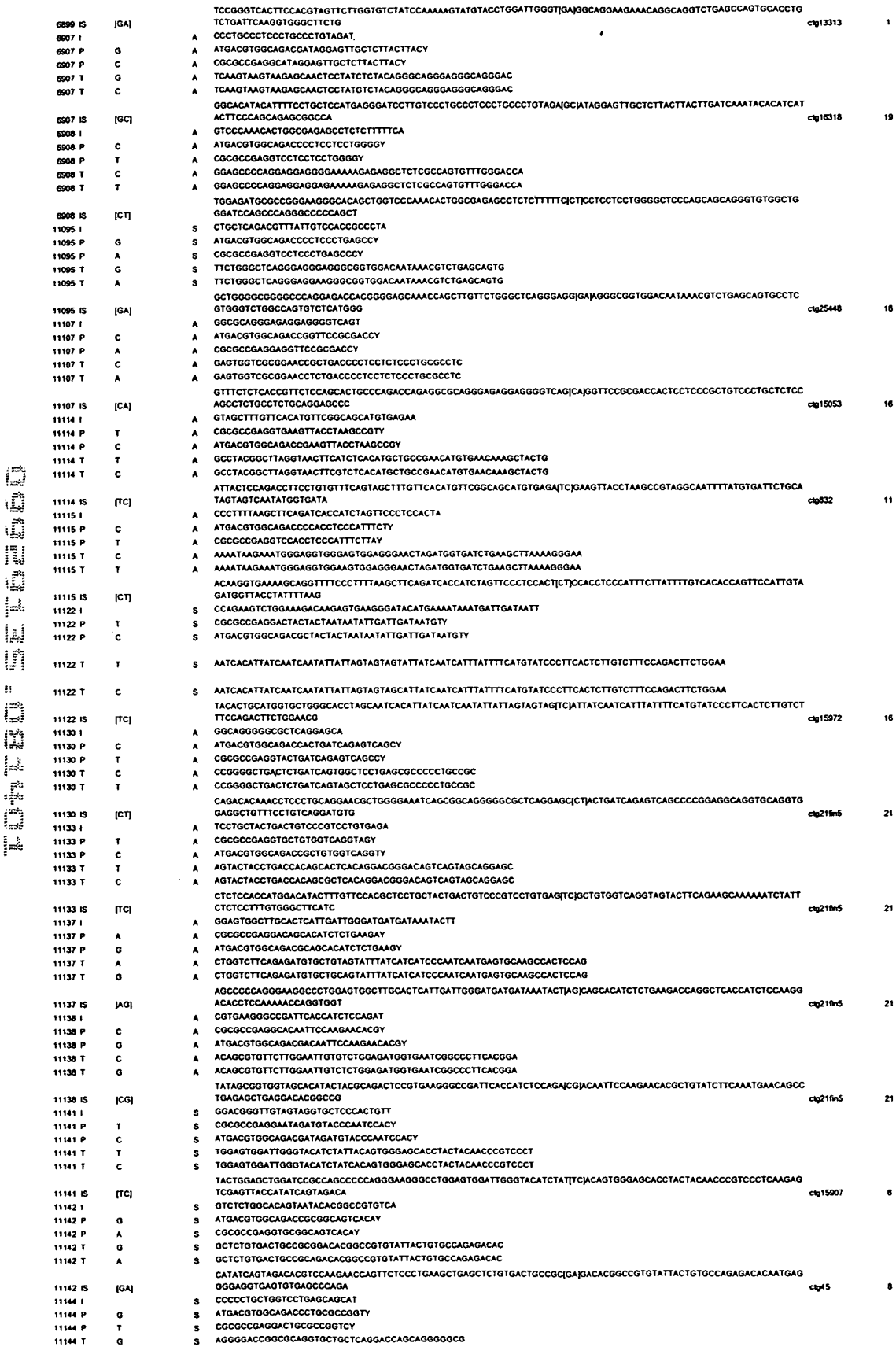

TCCGGGTCACTTCCACGTAGTTCTTGGTGTCTATCCAAAAAGTATGTACCTGGATTGGGT[GA]GGCAGGAAGAAACAGGCAGGTCTGAGCCAGTGCACCTG
6899 IS [GA] TCTGATTCAAGGTGGGCTTCTG ctg13313 1
6907 I A CCCTGCCCTCCCTGCCCTGTAGAT
6907 P G A ATGACGTGGCAGACGATAGGAGTTGCTCTTACTTACY
6907 P C A CGCGCCGAGGCATAGGAGTTGCTCTTACTTACY
6907 T G A TCAAGTAAGTAAGAGCAACTCCTATCTCTACAGGGCAGGGAGGGCAGGGAC
6907 T C A TCAAGTAAGTAAGAGCAACTCCTATGTCTACAGGGCAGGGAGGGCAGGGAC
GGCACATACATTTTCCTGCTCCATGAGGGATCCTTGTCCCTGCCCTCCCTGCCCTGTAGA[GC]ATAGGAGTTGCTCTTACTTACTTGATCAAATACACATCAT
6907 IS [GC] ACTTCCCAGCAGAGCGGCCA ctg16318 19
6908 I A GTCCCAAACACTGGCGAGAGCCTCTCTTTTTCA
6908 P C A ATGACGTGGCAGACCCCTCCTCCTGGGGY
6908 P T A CGCGCCGAGGTCCTCCTCCTGGGGY
6908 T C A GGAGCCCCAGGAGGAGGGGAAAAAGAGAGGCTCTCGCCAGTGTTTGGGACCA
6908 T T A GGAGCCCCAGGAGGAGGAGAAAAAGAGAGGCTCTCGCCAGTGTTTGGGACCA
TGGAGATGCGCCGGGAAGGGCACAGCTGGTCCCAAACACTGGCGAGAGCCTCTCTTTTTC[CT]CCTCCTCCTGGGGCTCCCAGCAGCAGGGTGTGGCTG
6908 IS [CT] GGATCCAGCCCAGGGCCCCCAGCT
11095 I S CTGCTCAGACGTTTATTGTCCACCGCCCTA
11095 P G S ATGACGTGGCAGACCCCTCCCTGAGCCY
11095 P A S CGCGCCGAGGTCCTCCCTGAGCCCY
11095 T G S TTCTGGGCTCAGGGAGGGAGGGCGGTGGACAATAAACGTCTGAGCAGTG
11095 T A S TTCTGGGCTCAGGGAGGAAGGGCGGTGGACAATAAACGTCTGAGCAGTG
GCTGGGGCGGGGCCCAGGAGACCACGGGGAGCAAACCAGCTTGTTCTGGGCTCAGGGAGG[GA]AGGGCGGTGGACAATAAACGTCTGAGCAGTGCCTC
11095 IS [GA] GTGGGTCTGGCCAGTGTCTCATGGG ctg25448 18
11107 I A GGCGCAGGGAGAGGAGGGGTCAGT
11107 P C A ATGACGTGGCAGACCGGTTCCGCGACCY
11107 P A A CGCGCCGAGGAGGTTCCGCGACCY
11107 T C A GAGTGGTCGCGGAACCGCTGACCCCTCCTCTCCCTGCGCCTC
11107 T A A GAGTGGTCGCGGAACCTCTGACCCCTCCTCTCCCTGCGCCTC
GTTTCTCTCACCGTTCTCCAGCACTGCCCAGACCAGAGGCGCAGGGAGAGGAGGGGTCAG[CA]GGTTCCGCGACCACTCCTCCCGCTGTCCCTGCTCTCC
11107 IS [CA] AGCCTCTGCCTCTGCAGGAGCCC ctg15053 16
11114 I A GTAGCTTTGTTCACATGTTCGGCAGCATGTGAGAA
11114 P T A CGCGCCGAGGTGAAGTTACCTAAGCCGTY
11114 P C A ATGACGTGGCAGACCGAAGTTACCTAAGCCGY
11114 T T A GCCTACGGCTTAGGTAACTTCATCTCACATGCTGCCGAACATGTGAACAAAGCTACTG
11114 T C A GCCTACGGCTTAGGTAACTTCGTCTCACATGCTGCCGAACATGTGAACAAAGCTACTG
ATTACTCCAGACCTTCCTGTGTTTCAGTAGCTTTGTTCACATGTTCGGCAGCATGTGAGA[TC]GAAGTTACCTAAGCCGTAGGCAATTTTATGTGATTCTGCA
11114 IS [TC] TAGTAGTCAATATGGTGATA ctg832 11
11115 I A CCCTTTTAAGCTTCAGATCACCATCTAGTTCCCTCCACTA
11115 P C A ATGACGTGGCAGACCCCACCTCCCATTTCTY
11115 P T A CGCGCCGAGGTCCACCTCCCATTTCTTAY
11115 T C A AAAATAAGAAATGGGAGGTGGGAGTGGAGGGAACTAGATGGTGATCTGAAGCTTAAAAGGGAA
11115 T T A AAAATAAGAAATGGGAGGTGGAAGTGGAGGGAACTAGATGGTGATCTGAAGCTTAAAAGGGAA
ACAAGGTGAAAAGCAGGTTTTCCCTTTTAAGCTTCAGATCACCATCTAGTTCCCTCCACT[CT]CCACCTCCCATTTCTTATTTTGTCACACCAGTTCCATTGTA
11115 IS [CT] GATGGTTACCTATTTTAAG
11122 I S CCAGAAGTCTGGAAAGACAAGAGTGAAGGGATACATGAAAATAAATGATTGATAATT
11122 P T S CGCGCCGAGGACTACTACTAATAATATTGATTGATAATGTY
11122 P C S ATGACGTGGCAGACGCTACTACTAATAATATTGATTGATAATGTY
11122 T T S AATCACATTATCAATCAATATTATTAGTAGTAGTATTATCAATCATTTATTTTCATGTATCCCTTCACTCTTGTCTTTCCAGACTTCTGGAA
11122 T C S AATCACATTATCAATCAATATTATTAGTAGTAGCATTATCAATCATTTATTTTCATGTATCCCTTCACTCTTGTCTTTCCAGACTTCTGGAA
TACACTGCATGGTGCTGGGCACCTAGCAATCACATTATCAATCAATATTATTAGTAGTAG[TC]ATTATCAATCATTTATTTTCATGTATCCCTTCACTCTTGTCT
11122 IS [TC] TTCCAGACTTCTGGAACG ctg15972 16
11130 I A GGCAGGGGGCGCTCAGGAGCA
11130 P C A ATGACGTGGCAGACCACTGATCAGAGTCAGCY
11130 P T A CGCGCCGAGGTACTGATCAGAGTCAGCCY
11130 T C A CCGGGGCTGACTCTGATCAGTGGCTCCTGAGCGCCCCCTGCCGC
11130 T T A CCGGGGCTGACTCTGATCAGTAGCTCCTGAGCGCCCCCTGCCGC
CAGACACAAACCTCCCTGCAGGAACGCTGGGGAAATCAGCGGCAGGGGGCGCTCAGGAGC[CT]ACTGATCAGAGTCAGCCCCGGAGGCAGGTGCAGGTG
11130 IS [CT] GAGGCTGTTTCCTGTCAGGATGTG ctg21fin5 21
11133 I A TCCTGCTACTGACTGTCCCGTCCTGTGAGA
11133 P T A CGCGCCGAGGTGCTGTGGTCAGGTAGY
11133 P C A ATGACGTGGCAGACCGCTGTGGTCAGGTY
11133 T T A AGTACTACCTGACCACAGCACTCACAGGACGGGACAGTCAGTAGCAGGAGC
11133 T C A AGTACTACCTGACCACAGCGCTCACAGGACGGGACAGTCAGTAGCAGGAGC
CTCTCCACCATGGACATACTTTGTTCCACGCTCCTGCTACTGACTGTCCCGTCCTGTGAG[TC]GCTGTGGTCAGGTAGTACTTCAGAAGCAAAAAATCTATT
11133 IS [TC] CTCTCCTTTGTGGGCTTCATC ctg21fin5 21
11137 I A GGAGTGGCTTGCACTCATTGATTGGGATGATGATAAATACTT
11137 P A A CGCGCCGAGGACAGCACATCTCTGAAGAY
11137 P G A ATGACGTGGCAGACGCAGCACATCTCTGAAGY
11137 T A A CTGGTCTTCAGAGATGTGCTGTAGTATTTATCATCATCCCAATCAATGAGTGCAAGCCACTCCAG
11137 T G A CTGGTCTTCAGAGATGTGCTGCAGTATTTATCATCATCCCAATCAATGAGTGCAAGCCACTCCAG
AGCCCCCAGGGAAGGCCCTGGAGTGGCTTGCACTCATTGATTGGGATGATGATAAATACT[AG]CAGCACATCTCTGAAGACCAGGCTCACCATCTCCAAGG
11137 IS [AG] ACACCTCCAAAAACCAGGTGGT ctg21fin5 21
11138 I A CGTGAAGGGCCGATTCACCATCTCCAGAT
11138 P C A CGCGCCGAGGCACAATTCCAAGAACACGY
11138 P G A ATGACGTGGCAGACGACAATTCCAAGAACACGY
11138 T C A ACAGCGTGTTCTTGGAATTGTGTCTGGAGATGGTGAATCGGCCCTTCACGGA
11138 T G A ACAGCGTGTTCTTGGAATTGTCTCTGGAGATGGTGAATCGGCCCTTCACGGA
TATAGCGGTGGTAGCACATACTACGCAGACTCCGTGAAGGGCCGATTCACCATCTCCAGA[CG]ACAATTCCAAGAACACGCTGTATCTTCAAATGAACAGCC
11138 IS [CG] TGAGAGCTGAGGACACGGCCG ctg21fin5 21
11141 I S GGACGGGTTGTAGTAGGTGCTCCCACTGTT
11141 P T S CGCGCCGAGGAATAGATGTACCCAATCCACY
11141 P C S ATGACGTGGCAGACGATAGATGTACCCAATCCACY
11141 T T S TGGAGTGGATTGGGTACATCTATTACAGTGGGAGCACCTACTACAACCCGTCCCT
11141 T C S TGGAGTGGATTGGGTACATCTATCACAGTGGGAGCACCTACTACAACCCGTCCCT
TACTGGAGCTGGATCCGCCAGCCCCCAGGGAAGGGCCTGGAGTGGATTGGGTACATCTAT[TC]ACAGTGGGAGCACCTACTACAACCCGTCCCTCAAGAG
11141 IS [TC] TCGAGTTACCATATCAGTAGACA ctg15907 6
11142 I S GTCTCTGGCACAGTAATACACGGCCGTGTCA
11142 P G S ATGACGTGGCAGACCGCGGCAGTCACAY
11142 P A S CGCGCCGAGGTGCGGCAGTCACAY
11142 T G S GCTCTGTGACTGCCGCGGACACGGCCGTGTATTACTGTGCCAGAGACAC
11142 T A S GCTCTGTGACTGCCGCAGACACGGCCGTGTATTACTGTGCCAGAGACAC
CATATCAGTAGACACGTCCAAGAACCAGTTCTCCCTGAAGCTGAGCTCTGTGACTGCCGC[GA]GACACGGCCGTGTATTACTGTGCCAGAGACACAATGAG
11142 IS [GA] GGGAGGTGAGTGTGAGCCCAGA ctg45 8
11144 I S CCCCCTGCTGGTCCTGAGCAGCAT
11144 P G S ATGACGTGGCAGACCCTGCGCCGGTY
11144 P T S CGCGCCGAGGACTGCGCCGGTCY
11144 T G S AGGGGACCGGCGCAGGTGCTGCTCAGGACCAGCAGGGGGCG

FIGURE 129E

11144	T	T	S	AGGGGACCGGCGCAGTTGCTGCTCAGGACCAGCAGGGGGCG		
11144	IS	[GT]		GAGGTGAGTGTGAGCCCAGACACAAACCTCCCTGCAGGGAGGCGGAGGGGACCGGCGCAG[GT]TGCTGCTCAGGACCAGCAGGGGGCGCGCGGGGCCC ACAGAGCATGAGGCCGGGTCAGGAG		
11146	I		S	GCAGAACCACAGATAATAAAGAAAGAGGAGCCCTGGGC		
11146	P	C	S	ATGACGTGGCAGACGACAGCTGAGGTGCTY		
11146	P	A	S	CGCGCCGAGGTACAGCTGAGGTGCTGY		
11146	T	C	S	TCGCCAGCACCTCAGCTGTCCCCAGGGCTCCTCTTTCTTTATTATCTGTGGTTCTGCTT		
11146	T	A	S	TCGCCAGCACCTCAGCTGTACCCAGGGCTCCTCTTTCTTTATTATCTGTGGTTCTGCTT		
11146	IS	[CA]		GGGAGGGCGGGGCTTCCTCATCAGCTCAGTGCTCTCCCTCCTCGCCAGCACCTCAGCTGT[CA]CCCAGGGCTCCTCTTTCTTTATTATCTGTGGTTCTGCT TCCTCACATCCTTGTGGTAGGA	ctg11	15
11148	I		A	ACAATATAGAAAATTTCTTCCCAAAATATTTTTTCTAAAAAGTCTTCTGTTACATATTCAA		
11148	P	C	A	ATGACGTGGCAGACCGTTACCTCAAACTTGAAATACY		
11148	P	T	A	CGCGCCGAGGTGTTACCTCAAACTTGAAATACTY		
11148	T	C	A	CATAAGTATTTCAAGTTTGAGGTAACGTGAATATGTAACAGAAGACTTTTTAGAAAAAATATTTTGGGAAGAAATTTTCTATATTGT		
11148	T	T	A	CATAAGTATTTCAAGTTTGAGGTAACATGAATATGTAACAGAAGACTTTTTAGAAAAAATATTTTGGGAAGAAATTTTCTATATTGT		
11148	IS	[CT]		ACAATATAGAAAATTTCTTCCCAAAATATTTTTTCTAAAAAGTCTTCTGTTACATATTCA[CT]GTTACCTCAAACTTGAAATACTTATGAGCAAATGATATATAAA ATTGGCTTACAAACTAC	ctg21fn2	21
11152	I		A	GCCTGCCACCCGGCCTCTCTT		
11152	P	G	A	ATGACGTGGCAGACGGGTTTCAAGTTCTGCAY		
11152	P	A	A	CGCGCCGAGGAGGTTTCAAGTTCTGCAAY		
11152	T	G	A	ACGGTTGCAGAACTTGAAACCCAGAGAGGCCGGGTGGCAGGCCT		
11152	T	A	A	ACGGTTGCAGAACTTGAAACCTAGAGAGGCCGGGTGGCAGGCCT		
11152	IS	[GA]		AGATCCAGGCCAGCTCTCCCACCAACTGCCTGTCCACAAGGCCTGCCACCCGGCCTCTCT[GA]GGTTTCAAGTTCTGCAACCGTGAGATGAAGGGTCTGGA AGGGGTGATCTGTATAGCAGGT	ctg14574	1
11165	I		A	TCATCCTCCCAGTAGACAGTCCCATGTGACAGAA		
11165	P	C	A	ATGACGTGGCAGACCAGGTCACATGACAGTCY		
11165	P	T	A	CGCGCCGAGGTAGGTCACATGACAGTCAY		
11165	T	C	A	AATGTGACTGTCATGTGACCTGTCTGTCACATGGGACTGTCTACTGGGAGGATGACT		
11165	T	T	A	AATGTGACTGTCATGTGACCTATCTGTCACATGGGACTGTCTACTGGGAGGATGACT		
11165	IS	[CT]		TCTTCAAAGTCCACAGTGTTCCCACAGTCATCCTCCCAGTAGACAGTCCCATGTGACAGA[CT]AGGTCACATGACAGTCACATTCCCCCATCCCTCCTCCTC TGAGATGCTAAACCTGATGTT	ctg14574	1
11169	I		S	GTGGCCATACTGGATTTAACAATTAACTCTCTGCGAAACAAGTA		
11169	P	A	S	CGCGCCGAGGTAAGAACTGAGCTTTATAACACAY		
11169	P	G	S	ATGACGTGGCAGACCAAGAACTGAGCTTTATAACACY		
11169	T	A	S	TTTATGTGTTATAAAGCTCAGTTCTTAACTTGTTTCGCAGAGAGTTAATTGTTAAATCCAGTATGGCCACAG		
11169	T	G	S	TTTATGTGTTATAAAGCTCAGTTCTTGACTTGTTTCGCAGAGAGTTAATTGTTAAATCCAGTATGGCCACAG		
11169	IS	[AG]		AACTTCATGGAATGATTTGAAAATTGAATTTGTTTTTATGTGTTATAAAGCTCAGTTCTT[AG]ACTTGTTTCGCAGAGAGTTAATTGTTAAATCCAGTATGGCC ACAGGAGGAGGTCCCTTTG	ctg14574	1
11171	I		A	TGGTCCATGTGATATACTGTGGCTGTCCCATTGTTCTAAAT		
11171	P	C	A	CGCGCCGAGGCCTTTTAGTTATGGGTGCAY		
11171	P	G	A	ATGACGTGGCAGACGCTTTTAGTTATGGGTGCAY		
11171	T	C	A	TAACTGCACCCATAACTAAAAGGTTTAGAACAATGGGACAGCCACAGTATATCACATGGACCAGA		
11171	T	G	A	TAACTGCACCCATAACTAAAAGCTTTAGAACAATGGGACAGCCACAGTATATCACATGGACCAGA		
11171	IS	[CG]		CAGACCAGTTTTCTCTCCTCTGGTCCATGTGATATACTGTGGCTGTCCCATTGTTCTAAA[CG]CTTTTAGTTATGGGTGCAGTTATGTACTGACTAGTTACCT CTTAGTTCCAATTTGAAATT	ctg14574	1
11252	I		A	TCGTTTTGACTTTTTTTCTCCTTTCCTGGGTGATCTGCAA		
11252	P	C	A	ATGACGTGGCAGACCTTCACTGTAATATTCTAGGAGTY		
11252	P	T	A	CGCGCCGAGGTTTCACTGTAATATTCTAGGAGTGY		
11252	T	C	A	AATCCACTCCTAGAATATTACAGTGAAGTGCAGATCACCCAGGAAAGGAGAAAAAAAGTCAAAACGACC		
11252	T	T	A	AATCCACTCCTAGAATATTACAGTGAAATGCAGATCACCCAGGAAAGGAGAAAAAAAGTCAAAACGACC		
11252	IS	[CT]		TAGTGTGGCTCTTCTTTCTGGTCGTTTTGACTTTTTTTCTCCTTTCCTGGGTGATCTGCA[CT]TTCACTGTAATATTCTAGGAGTGGATTTCTCAATTTTTATC ATTCCTTGGTAATTTAGAT	ctg22fin4	22
11312	I		S	TGGGCTTTCCACCTGCAGAGCACAGAA		
11312	P	A	S	CGCGCCGAGGTGGGATTCTAGTCTCCAACY		
11312	P	G	S	ATGACGTGGCAGACCGGGATTCTAGTCTCCAAY		
11312	T	A	S	AGTGGTTGGAGACTAGAATCCCATCTGTGCTCTGCAGGTGGAAAGCCCAGG		
11312	T	G	S	AGTGGTTGGAGACTAGAATCCCGTCTGTGCTCTGCAGGTGGAAAGCCCAGG		
11312	IS	[AG]		GTATACAAAGGACTGCCTCAAGCCATAGTACCCCTACAAGTGGTTGGAGACTAGAATCCC[AG]TCTGTGCTCTGCAGGTGGAAAGCCCAGGCTTGCAGAAG TCAGAAGTAACCAGAACTGTTT	ctg22fin4	22
11330	I		S	GCCCCATTTTAAGAGGTGCAAGAACTGTGGGAGT		
11330	P	C	S	ATGACGTGGCAGACGAACCACCACAATTTAGCTY		
11330	P	T	S	CGCGCCGAGGAAACCACCACAATTTAGCTY		
11330	T	C	S	CATGAGCTAAATTGTGGTGGTTCCTCCCACAGTTCTTGCACCTCTTAAAATGGGGCAG		
11330	T	T	S	CATGAGCTAAATTGTGGTGGTTTCTCCCACAGTTCTTGCACCTCTTAAAATGGGGCAG		
11330	IS	[CT]		AAAGTGAAATTTCTGTTTTGGTCATTGTTCCTTTATGCCATGAGCTAAATTGTGGTGGTT[CT]CTCCCACAGTTCTTGCACCTCTTAAAATGGGGCAGATTAT GGGTAACAAGGTATTGAGAA	ctg22fin7	22
11342	I		A	CCCTACTTCACCTGACACCTGCCAGGAGAGC		
11342	P	T	A	CGCGCCGAGGTCTCCATGCCTATCTTCTTY		
11342	P	A	A	ATGACGTGGCAGACACTCCATGCCTATCTTCTY		
11342	T	T	A	AGGAAAGAAGATAGGCATGGAGACTCTCCTGGCAGGTGTCAGGTGAAGTAGGGGA		
11342	T	A	A	AGGAAAGAAGATAGGCATGGAGTCTCTCCTGGCAGGTGTCAGGTGAAGTAGGGGA		
11342	IS	[TA]		CTGTGGATGGAGTAGGAGTCCCTTTGCGTCCCCTACTTCACCTGACACCTGCCAGGAGAG[TA]CTCCATGCCTATCTTCTTTCCTCTGCTGCCATTGCCCCA GGGGAGAATGAGGGCCTGTGG	ctg15665	20
11398	I		S	AGCTATGCTTCTCCTCCCGGAGATCCCCA		
11398	P	G	S	ATGACGTGGCAGACCTCCCAGAGACCCCAY		
11398	P	A	S	CGCGCCGAGGTTCCCAGAGACCCCAY		
11398	T	G	S	TGCTTGGGGTCTCTGGGAGGGGGATCTCCGGGAGGAGAAGCATAGCTAA		
11398	T	A	S	TGCTTGGGGTCTCTGGGAAGGGGATCTCCGGGAGGAGAAGCATAGCTAA		
11398	IS	[GA]		TCCCATATTCCTGGGCAAACCAATCCCTTTTATTAGGAGCGTTGCTTGGGGTCTCTGGGA[GA]GGGGATCTCCGGGAGGAGAAGCATAGCTAAAGCTTCCT CTTCAGAAGGTGGATATGTCAT	ctg15361	6
11423	I		A	CGTCCTCAGGAACTCGAGGGGCCGT		
11423	P	G	A	ATGACGTGGCAGACGGCCTGTCCTAGAGGY		
11423	P	A	A	CGCGCCGAGGAGCCTGTCCTAGAGGAY		
11423	T	G	A	TCTCTCCTCTAGGACAGGCCCGGCCCCCTCGAGTTCCTGAGGACGTG		
11423	T	A	A	TCTCTCCTCTAGGACAGGCTCGGCCCCTCGAGTTCCTGAGGACGTG		
11423	IS	[GA]		GAACGACTCGTGTACCAGGAAGCTGCCCCCGTAGCACGTCCTCAGGAACTCGAGGGGCCG[GA]GCCTGTCCTAGAGGAGAGACCCAAGTGGTCACATCAC CAGGGGTGGAGAGGAGCCCAGGA	ctg15361	6
11427	I		S	AGCCCCTGTCACCCTGACCCCCT		
11427	P	C	S	ATGACGTGGCAGACGGTTCCTGCATGTAGGY		
11427	P	G	S	CGCGCCGAGGCGTTCCTGCATGTAGGY		
11427	T	C	S	GCAGCCTACATGCAGGAACCGGGGGGTCAGGGTGACAGGGGCTTC		
11427	T	G	S	GCAGCCTACATGCAGGAACGGGGGGTCAGGGTGACAGGGGCTTC		
11427	IS	[CG]		GCCACCAGCCTGGGCCTGCGCTCCTCGTGCCCGGGTCCTCCGCAGCCTACATGCAGGAAC[CG]GGGGGTCAGGGTGACAGGGGCTTCCTGCCAGGGGT GGAGAGGGCACCTTCAGCAGGGGCG	ctg16955	1
11428	I		A	CGAATCCTCCTGTAAGGGCGGGCCTATC		
11428	P	G	A	ATGACGTGGCAGACGATGGTGCTGGGGAY		
11428	P	T	A	CGCGCCGAGGTATGGTGCTGGGGAGY		

FIGURE 129E

11428 T	G	A	CATTCTCCCCAGCACCATCATAGGCCCGCCCTTACAGGAGGATTCGTT			
11428 T	T	A	CATTCTCCCCAGCACCATAATAGGCCCGCCCTTACAGGAGGATTCGTT			
11428 tS	[GT]		GTTACTAGTGGGGCAAGGAGCGGACTCTACTAACGAATCCTCCTGTAAGGGCGGGCCTAT[GT]ATGGTGCTGGGGAGAATGGCTGCATTGTTATGGTCAAA ATCCAGTTGGCAAATGCCACAT	ctg16128	1
11429 I		A	CCAGAGAAAGAGTTTCCACACCAGCCATTGTTTTCCA			
11429 P	T	A	CGCGCCGAGGTCTGGTAATGTCAGCCTY			
11429 P	C	A	ATGACGTGGCAGACCCTGGTAATGTCAGCCTY			
11429 T	T	A	GATGAGGCTGACATTACCAGAGGAAAACAATGGCTGGTGTGGAAACTCTTTCTCTGGCT			
11429 T	C	A	GATGAGGCTGACATTACCAGGGGAAAACAATGGCTGGTGTGGAAACTCTTTCTCTGGCT			
11429 tS	[TC]		CACCAGGCTCTTGAATCCTCCCAGCCAGAGAAAGAGTTTCCACACCAGCCATTGTTTTCC[TC]CTGGTAATGTCAGCCTCATCTGTTGTTCCTAGGCTTACTT GATATGTTTGTAAATGACAA	ctg16128	1
11436 I		S	AGTATTATATTTTTCCATTTGAAGGTATACAAAGTAGTTAACTTTTCTTAGATATTTAGAGA			
11436 P	A	S	CGCGCCGAGGTGCCCACATTTTCCTTGY			
11436 P	G	S	ATGACGTGGCAGACCGCCCACATTTTCCTTY			
11436 T	A	S	ATCACAAGGAAAATGTGGGCACTCTAAATATCTAAGAAAAGTTAACTACTTTGTATACCTCAAATGGAAAAATATAATACT			
11436 T	G	S	ATCACAAGGAAAATGTGGGCGCTCTAAATATCTAAGAAAAGTTAACTACTTTGTATACCTCAAATGGAAAAATATAATACT			
11436 tS	[AG]		GTCCCTCTCTAGAATCCACCCATAAGGAGATCATCATGTTATCACAAGGAAAATGTGGGC[AG]CTCTAAATATCTAAGAAAAGTTAACTACTTTGTATACCTCA AATGGAAAAATATAATACT	ctg13446	1
11439 I		S	CTGTCACATAGTGCTGTGCGGTCATCTGA			
11439 P	G	S	ATGACGTGGCAGACCCGCTCCACATCAGTY			
11439 P	A	S	CGCGCCGAGGTCGCTCCACATCAGTY			
11439 T	G	S	CTTCACTGATGTGGAGCGGCAGATGACCGCACAGCACTATGTGACAGAA			
11439 T	A	S	CTTCACTGATGTGGAGCGACAGATGACCGCACAGCACTATGTGACAGAA			
11439 tS	[GA]		TGTTGGGAAAGACTATAAGGAGCAGAAGGGGCTCTGGCACCACTTCACTGATGTGGAGCG[GA]CAGATGACCGCACAGCACTATGTGACAGAATTTAACAA GAGACTCTATGAACAAAACATT	ctg22fin4	22
11441 I		A	CTAATTGTTAGAAAGTTCTTAGACTTAGCCCAAATCTATCTTTATCTAACTTCTT			
11441 P	A	A	CGCGCCGAGGATCCATGGATTACAGCTCTY			
11441 P	G	A	ATGACGTGGCAGACGTCCATGGATTACAGCTCY			
11441 T	A	A	AGGGAGAGCTGTAATCCATGGATAGAAGTTAGATAAAGATAGATTTGGGCTAAGTCTAAGAACTTTCTAACAATTAGGA			
11441 T	G	A	AGGGAGAGCTGTAATCCATGGACAGAAGTTAGATAAAGATAGATTTGGGCTAAGTCTAAGAACTTTCTAACAATTAGGA			
11441 tS	[AG]		GTAATCCTAATTGTTAGAAAGTTCTTAGACTTAGCCCAAATCTATCTTTATCTAACTTCT[AG]TCCATGGATTACAGCTCTCCCTCCTGGGACCATGAAGACCA GTCTCTCTTCACTAACATA	ctg13446	1
11446 I		S	CGGCCCCTGACAGGAAGAGGTGTGAT			
11446 P	T	S	CGCGCCGAGGAGGCCCTGTGATTGTY			
11446 P	G	S	ATGACGTGGCAGACCGGCCCTGTGATTGTY			
11446 T	T	S	CCTGACAATCACAGGGCCTTCACACCTCTTCCTGTCAGGGGCCGAG			
11446 T	G	S	CCTGACAATCACAGGGCCGTCACACCTCTTCCTGTCAGGGGCCGAG			
11446 tS	[TG]		CAGTTGTGTGAAGATGGAGTCTCCCGGAGGAAATGACAATTACCTGACAATCACAGGGCC[TG]TCACACCTCTTCCTGTCAGGGGCCGAGACATTCCATAC ACCAAGCTTAGGTGATGAAGAA	ctg13980	1
11449 I		A	CGGAAACCCCTCCGAGAATGGCCCA			
11449 P	T	A	CGCGCCGAGGTGGTTCCCTGGCAGY			
11449 P	C	A	ATGACGTGGCAGACCGGTTCCCTGGCAY			
11449 T	T	A	AGCCCTGCCAGGGAACCAGGGCCATTCTCGGAGGGGTTTCCGCC			
11449 T	C	A	AGCCCTGCCAGGGAACCGGGGCCATTCTCGGAGGGGTTTCCGCC			
11449 tS	[TC]		CACAGAAGGACACGGGCGGAAACCCCTCCGAGAATGGCCC[TC]GGTTCCCTGGCAGGGCTGGGGGCCTATAAAGTGCACATCCATCCTGATGCCAGTCAC CAG	ctg13980	1
11452 I		S	GCTGTGAATAGGTGTCAAGGATTTTTTGGAAATCCCCTTGT			
11452 P	G	S	ATGACGTGGCAGACCCCATGCAAGATAAGTTTATCY			
11452 P	T	S	CGCGCCGAGGACCATGCAAGATAAGTTTATCCY			
11452 T	G	S	GGTTGGATAAACTTATCTTGCATGGGCAAGGGGATTTCCAAAAAATCCTTGACACCTATTCACAGCAC			
11452 T	T	S	GGTTGGATAAACTTATCTTGCATGGTCAAGGGGATTTCCAAAAAATCCTTGACACCTATTCACAGCAC			
11452 tS	[GT]		TGACAGATCTTATGTTCCCGAAGAGTTTCGAGTGCAGGTTGGATAAACTTATCTTGCATGG[GT]CAAGGGGATTTCCAAAAAATCCTTGACACCTATTCACAGC ACCATACTTCGGTGTGTGAA	ctg13980	1
11476 I		S	GCTGAGGTGCTTCTTTCCCAAGGGCCTA			
11476 P	G	S	ATGACGTGGCAGACCAACTATGCAGCAGGGY			
11476 P	A	S	CGCGCCGAGGTAACTATGCAGCAGGGCY			
11476 T	G	S	AGAAGCCCTGCTGCATAGTTGAGGCCCTTGGGAAAGAAGCACCTCAGCTA			
11476 T	A	S	AGAAGCCCTGCTGCATAGTTAAGGCCCTTGGGAAAGAAGCACCTCAGCTA			
11476 tS	[GA]		CCATGCCCAGAAACTTAAACATTTGTGTGGACTCCCTGTAAGAAGCCCTGCTGCATAGTT[GA]AGGCCCTTGGGAAAGAAGCACCTCAGCTATTCAGCAACG GGGCTTCTTTACGAGGGCACC	ctg13980	1
11479 I		A	AGTCAATGGATTGCACACTGTTTATAAGAAAGGAATTGAGGCTGAAATAAGC			
11479 P	T	A	CGCGCCGAGGTAGTACCACATTATACCTGGTY			
11479 P	G	A	ATGACGTGGCAGACGAGTACCACATTATACCTGGY			
11479 T	T	A	AAACACCAGGTATAATGTGGTACTACTTATTTCAGCCTCAATTCCTTTCTTATAAACAGTGTGCAATCCATTGACTCA			
11479 T	G	A	AAACACCAGGTATAATGTGGTACTCCTTATTTCAGCCTCAATTCCTTTCTTATAAACAGTGTGCAATCCATTGACTCA			
11479 tS	[TG]		GTAAAAATGAGTCAATGGATTGCACACTGTTTATAAGAAAGGAATTGAGGCTGAAATAAG[TG]AGTACCACATTATACCTGGTGTTTGGTTTTTATGCTAATCT GGAACATGGGACCCGGGGA	ctg13980	1
11482 I		A	ACTGTTGTCAACCAGTTGCTGTCCAAAATTGATGGCT			
11482 P	G	A	ATGACGTGGCAGACGTGGAGCAGCTAAACAAY			
11482 P	A	A	CGCGCCGAGGATGGAGCAGCTAAACAACY			
11482 T	G	A	GGATGTTGTTTAGCTGCTCCATGCCATCAATTTTGGACAGCAACTGGTTGACAACAGTGT			
11482 T	A	A	GGATGTTGTTTAGCTGCTCCATGCCATCAATTTTGGACAGCAACTGGTTGACAACAGTGT			
11482 tS	[GA]		GCTGGTAGCACGGGAGTTCATGACACTGTTGTCAACCAGTTGCTGTCCAAAATTGATGGC[GA]TGGAGCAGCTAAACAACATCCTAGTCATTGGTATGTTTA CTTTTTAAAAAAGTACTATTC	ctg13980	1
11488 I		A	TCAAAAAGTCCAAACAGGTATGGAGTTAAAAAAAAATGCCTCT			
11488 P	G	A	ATGACGTGGCAGACGAAATGAATGGGCATTAAACAY			
11488 P	A	A	CGCGCCGAGGAAAATGAATGGGCATTAAACAY			
11488 T	G	A	TATGTGTTTAATGCCCATTCATTTCGAGGCATTTTTTTTTTAACTCCATACCTGTTTGGACTTTTTGATA			
11488 T	A	A	TATGTGTTTAATGCCCATTCATTTTGAGGCATTTTTTTTTTAACTCCATACCTGTTTGGACTTTTTGATA			
11488 tS	[GA]		CCTAATGAATCTACATTATCAAAAAGTCCAAACAGGTATGGAGTTAAAAAAAAATGCCTC[GA]AAATGAATGGGCATTAAACACATAAGAATTATTTCCAGATG AACAGGCTTATCAGTAAGC	ctg13516	6
11496 I		S	GGAATAATAATGCATCCCTTAGCATTTTTGAAAATAAAATACAGTGCTT			
11496 P	T	S	CGCGCCGAGGACATATCAGGCACCCAY			
11496 P	C	S	ATGACGTGGCAGACGCATATCAGGCACCCY			
11496 T	T	S	GTCCTGGGTGCCTGATATGTAGCACTGTATTTTATTTTCAAAAATGCTAAGGGATGCATTATTATTCCTA			
11496 T	C	S	GTCCTGGGTGCCTGATATGCAGCACTGTATTTTATTTTCAAAAATGCTAAGGGATGCATTATTATTCCTA			
11496 tS	[TC]		AAGCTTCCTTTGATCAAACAAAAACCTATGTGCTGGGAACTGTCCTGGGTGCCTGATATG[TC]AGCACTGTATTTTATTTTCAAAAATGCTAAGGGATGCATT ATTATTCCTATTTCACAAGT	ctg16537	20
11506 I		A	GACCCCCTCCAAGGCAAACCCTCATAACTGA			
11506 P	C	A	ATGACGTGGCAGACCACATGTTGGAAGGGCY			
11506 P	T	A	CGCGCCGAGGTACATGTTGGAAGGGCAY			
11506 T	C	A	GCTGTGCCCTTCCAACATGTGCAGTTATGAGGGTTTGCCTTGGAGGGGGTCTG			
11506 T	T	A	GCTGTGCCCTTCCAACATGTACAGTTATGAGGGTTTGCCTTGGAGGGGGTCTG			
11506 tS	[CT]		TGGCTTCCTGGGGGAGCAGCAGCTGCAGCAGACCCCCTCCAAGGCAAACCCTCATAACTG[CT]ACATGTTGGAAGGGCACAGCCAAGACAGGGAGGGCTG CTGTGGGTCTGCCGGGTCTTAGC	ctg15665	20
11507 I		A	GAGGCTACTGGCCCCCTGGCCC			
11507 P	A	A	CGCGCCGAGGATGTTATACCTAAGAAATTCGTCAY			
11507 P	T	A	ATGACGTGGCAGACTTGTTATACCTAAGAAATTCGTCAY			
11507 T	A	A	CAAGTGACGAATTTCTTAGGTATAACATGGCCAGGGGGCCAGTAGCCTCAG			

FIGURE 129E

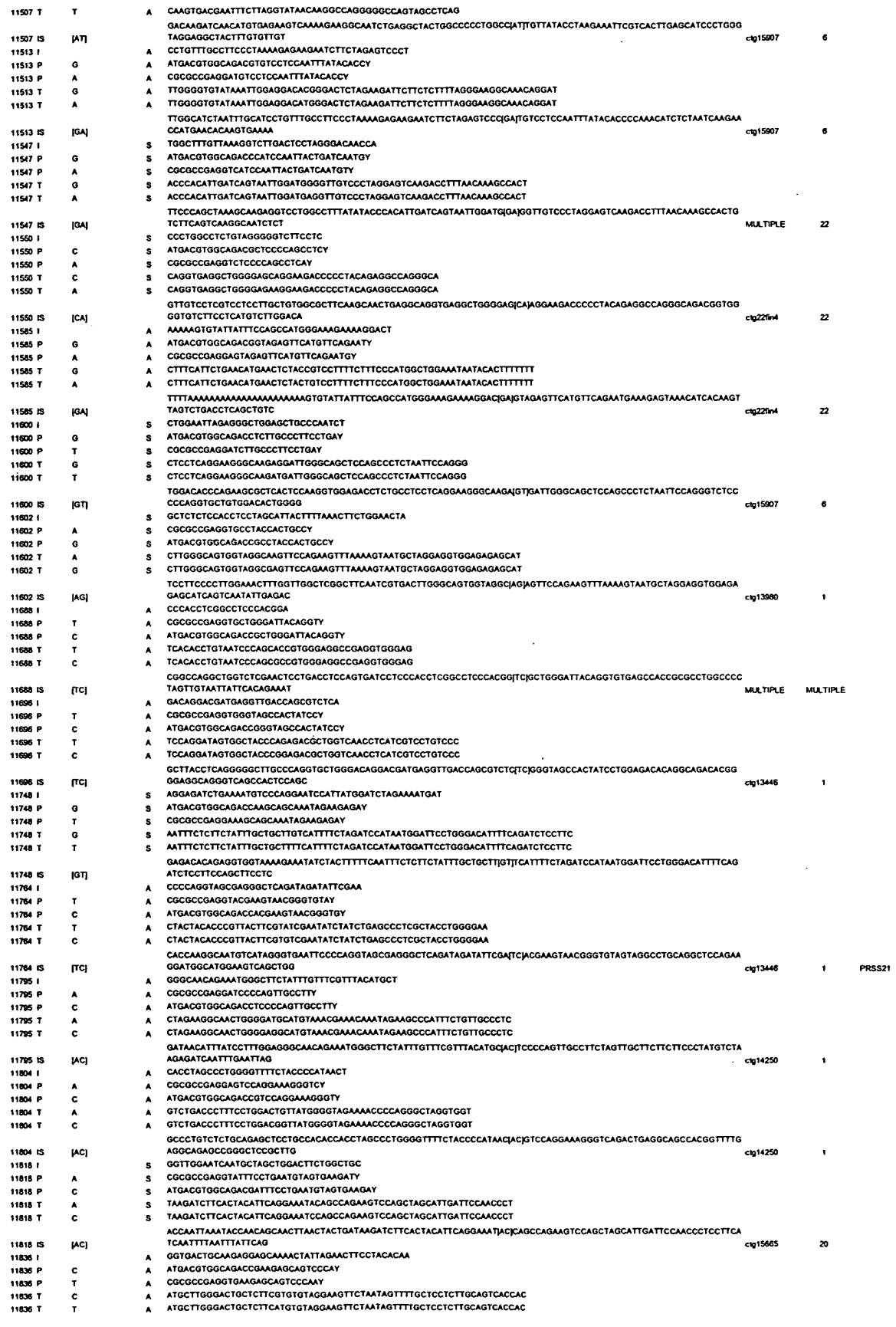

11507 T T A CAAGTGACGAATTTCTTAGGTATAACAAGGCCAGGGGGCCAGTAGCCTCAG
11507 IS [AT] GACAAGATCAACATGTGAGAAGTCAAAAGAAGGCAATCTGAGGCTACTGGCCCCCTGGCC[AT]TGTTATACCTAAGAAATTCGTCACTTGAGCATCCCTGGG TAGGAGGCTACTTTGTGTTGT ctg15907 6
11513 I A CCTGTTTGCCTTCCCTAAAAGAGAAGAATCTTCTAGAGTCCCT
11513 P G A ATGACGTGGCAGACGTGTCCTCCAATTTATACACCY
11513 P A A CGCGCCGAGGATGTCCTCCAATTTATACACCY
11513 T G A TTGGGGTGTATAAATTGGAGGACACGGGACTCTAGAAGATTCTTCTCTTTTAGGGAAGGCAAACAGGAT
11513 T A A TTGGGGTGTATAAATTGGAGGACATGGGACTCTAGAAGATTCTTCTCTTTTAGGGAAGGCAAACAGGAT
11513 IS [GA] TTGGCATCTAATTTGCATCCTGTTTGCCTTCCCTAAAAGAGAAGAATCTTCTAGAGTCCC[GA]TGTCCTCCAATTTATACACCCCAAACATCTCTAATCAAGAA CCATGAACACAAGTGAAAA ctg15907 6
11547 I S TGGCTTTGTTAAAGGTCTTGACTCCTAGGGACAACCA
11547 P G S ATGACGTGGCAGACCCATCCAATTACTGATCAATGY
11547 P A S CGCGCCGAGGTCATCCAATTACTGATCAATGTY
11547 T G S ACCCACATTGATCAGTAATTGGATGGGGTTGTCCCTAGGAGTCAAGACCTTTAACAAAGCCACT
11547 T A S ACCCACATTGATCAGTAATTGGATGAGGTTGTCCCTAGGAGTCAAGACCTTTAACAAAGCCACT
11547 IS [GA] TTCCCAGCTAAAGCAAGAGGTCCTGGCCTTTATATACCCACATTGATCAGTAATTGGATG[GA]GGTTGTCCCTAGGAGTCAAGACCTTTAACAAAGCCACTG TCTTCAGTCAAGGCAATCTCT MULTIPLE 22
11550 I S CCCTGGCCTCTGTAGGGGGTCTTCCTC
11550 P C S ATGACGTGGCAGACGCTCCCCAGCCTCY
11550 P A S CGCGCCGAGGTCTCCCCAGCCTCAY
11550 T C S CAGGTGAGGCTGGGGAGCAGGAAGACCCCCTACAGAGGCCAGGGCA
11550 T A S CAGGTGAGGCTGGGGAGAAGGAAGACCCCCTACAGAGGCCAGGGCA
11550 IS [CA] GTTGTCCTCGTCCTCCTTGCTGTGGCGCTTCAAGCAACTGAGGCAGGTGAGGCTGGGGAG[CA]AGGAAGACCCCCTACAGAGGCCAGGGCAGACGGTGG GGTGTCTTCCTCATGTCTTGGACA ctg22fin4 22
11585 I A AAAAAGTGTATTATTTCCAGCCATGGGAAAGAAAAGGACT
11585 P G A ATGACGTGGCAGACGGTAGAGTTCATGTTCAGAATY
11585 P A A CGCGCCGAGGAGTAGAGTTCATGTTCAGAATGY
11585 T G A CTTTCATTCTGAACATGAACTCTACCGTCCTTTTCTTTCCCATGGCTGGAAATAATACACTTTTTTT
11585 T A A CTTTCATTCTGAACATGAACTCTACTGTCCTTTTCTTTCCCATGGCTGGAAATAATACACTTTTTTT
11585 IS [GA] TTTTAAAAAAAAAAAAAAAAAAAAAAGTGTATTATTTCCAGCCATGGGAAAGAAAAGGAC[GA]GTAGAGTTCATGTTCAGAATGAAAGAGTAAACATCACAAGT TAGTCTGACCTCAGCTGTC ctg22fin4 22
11600 I S CTGGAATTAGAGGGCTGGAGCTGCCCAATCT
11600 P G S ATGACGTGGCAGACCTCTTGCCCTTCCTGAY
11600 P T S CGCGCCGAGGATCTTGCCCTTCCTGAY
11600 T G S CTCCTCAGGAAGGGCAAGAGGATTGGGCAGCTCCAGCCCTCTAATTCCAGGG
11600 T T S CTCCTCAGGAAGGGCAAGATGATTGGGCAGCTCCAGCCCTCTAATTCCAGGG
11600 IS [GT] TGGACACCCAGAAGCGCTCACTCCAAGGTGGAGACCTCTGCCTCCTCAGGAAGGGCAAGA[GT]GATTGGGCAGCTCCAGCCCTCTAATTCCAGGGTCTCC CCCAGGTGCTGTGGACACTGGGG ctg15907 6
11602 I S GCTCTCTCCACCTCCTAGCATTACTTTTAAACTTCTGGAACTA
11602 P A S CGCGCCGAGGTGCCTACCACTGCCY
11602 P G S ATGACGTGGCAGACCGCCTACCACTGCCY
11602 T A S CTTGGGCAGTGGTAGGCAAGTTCCAGAAGTTTAAAAGTAATGCTAGGAGGTGGAGAGAGCAT
11602 T G S CTTGGGCAGTGGTAGGCGAGTTCCAGAAGTTTAAAAGTAATGCTAGGAGGTGGAGAGAGCAT
11602 IS [AG] TCCTTCCCCTTGGAAACTTTGGTTGGCTCGGCTTCAATCGTGACTTGGGCAGTGGTAGGC[AG]AGTTCCAGAAGTTTAAAAGTAATGCTAGGAGGTGGAGA GAGCATCAGTCAATATTGAGAC ctg13980 1
11688 I A CCCACCTCGGCCTCCCACGGA
11688 P T A CGCGCCGAGGTGCTGGGATTACAGGTY
11688 P C A ATGACGTGGCAGACCGCTGGGATTACAGGTY
11688 T T A TCACACCTGTAATCCCAGCACCGTGGGAGGCCGAGGTGGGAG
11688 T C A TCACACCTGTAATCCCAGCGCCGTGGGAGGCCGAGGTGGGAG
11688 IS [TC] CGGCCAGGCTGGTCTCGAACTCCTGACCTCCAGTGATCCTCCCACCTCGGCCTCCCACGG[TC]GCTGGGATTACAGGTGTGAGCCACCGCGCCTGGCCCC TAGTTGTAATTATTCACAGAAAT MULTIPLE MULTIPLE
11696 I A GACAGGACGATGAGGTTGACCAGCGTCTCA
11696 P T A CGCGCCGAGGTGGGTAGCCACTATCCY
11696 P C A ATGACGTGGCAGACCGGGTAGCCACTATCCY
11696 T T A TCCAGGATAGTGGCTACCCAGAGACGCTGGTCAACCTCATCGTCCTGTCCC
11696 T C A TCCAGGATAGTGGCTACCCGGAGACGCTGGTCAACCTCATCGTCCTGTCCC
11696 IS [TC] GCTTACCTCAGGGGGCTTGCCCAGGTGCTGGGACAGGACGATGAGGTTGACCAGCGTCTC[TC]GGGTAGCCACTATCCTGGAGACACAGGCAGACACGG GGAGGCAGGGTCAGCCACTCCAGC ctg13446 1
11748 I S AGGAGATCTGAAAATGTCCCAGGAATCCATTATGGATCTAGAAAATGAT
11748 P G S ATGACGTGGCAGACCAAGCAGCAAATAGAAGAGAY
11748 P T S CGCGCCGAGGAAAGCAGCAAATAGAAGAGAY
11748 T G S AATTTCTCTTCTATTTGCTGCTTGTCATTTTCTAGATCCATAATGGATTCCTGGGACATTTTCAGATCTCCTTC
11748 T T S AATTTCTCTTCTATTTGCTGCTTTTCATTTTCTAGATCCATAATGGATTCCTGGGACATTTTCAGATCTCCTTC
11748 IS [GT] GAGACACAGAGGTGGTAAAAGAAATATCTACTTTTTCAATTTCTCTTCTATTTGCTGCTT[GT]TCATTTTCTAGATCCATAATGGATTCCTGGGACATTTTCAG ATCTCCTTCCAGCTTCCTC
11764 I A CCCCAGGTAGCGAGGGCTCAGATAGATATTCGAA
11764 P T A CGCGCCGAGGTACGAAGTAACGGGTGTAY
11764 P C A ATGACGTGGCAGACCACGAAGTAACGGGTGY
11764 T T A CTACTACACCCGTTACTTCGTATCGAATATCTATCTGAGCCCTCGCTACCTGGGGAA
11764 T C A CTACTACACCCGTTACTTCGTGTCGAATATCTATCTGAGCCCTCGCTACCTGGGGAA
11764 IS [TC] CACCAAGGCAATGTCATAGGGTGAATTCCCCAGGTAGCGAGGGCTCAGATAGATATTCGA[TC]ACGAAGTAACGGGTGTAGTAGGCCTGCAGGCTCCAGAA GGATGGCATGGAAGTCAGCTGG ctg13446 1 PRSS21
11795 I A GGGCAACAGAAATGGGCTTCTATTTGTTTCGTTTACATGCT
11795 P A A CGCGCCGAGGATCCCCAGTTGCCTTY
11795 P C A ATGACGTGGCAGACCTCCCCAGTTGCCTTY
11795 T A A CTAGAAGGCAACTGGGGATGCATGTAAACGAAACAAATAGAAGCCCATTTCTGTTGCCCTC
11795 T C A CTAGAAGGCAACTGGGGAGGCATGTAAACGAAACAAATAGAAGCCCATTTCTGTTGCCCTC
11795 IS [AC] GATAACATTTATCCTTTGGAGGGCAACAGAAATGGGCTTCTATTTGTTTCGTTTACATGC[AC]TCCCCAGTTGCCTTCTAGTTGCTTCTTCTTCCCTATGTCTA AGAGATCAATTTGAATTAG ctg14250 1
11804 I A CACCTAGCCCTGGGGTTTTCTACCCCATAACT
11804 P A A CGCGCCGAGGAGTCCAGGAAAGGGTCY
11804 P C A ATGACGTGGCAGACCGTCCAGGAAAGGGTY
11804 T A A GTCTGACCCTTTCCTGGACTGTTATGGGGTAGAAAACCCCAGGGCTAGGTGGT
11804 T C A GTCTGACCCTTTCCTGGACGGTTATGGGGTAGAAAACCCCAGGGCTAGGTGGT
11804 IS [AC] GCCCTGTCTCTGCAGAGCTCCTGCCACACCACCTAGCCCTGGGGTTTTCTACCCCATAAC[AC]GTCCAGGAAAGGGTCAGACTGAGGCAGCCACGGTTTTG AGGCAGAGCCGGGCTCCGCTTG ctg14250 1
11818 I S GGTTGGAATCAATGCTAGCTGGACTTCTGGCTGC
11818 P A S CGCGCCGAGGTATTTCCTGAATGTAGTGAAGATY
11818 P C S ATGACGTGGCAGACGATTTCCTGAATGTAGTGAAGAY
11818 T A S TAAGATCTTCACTACATTCAGGAAATACAGCCAGAAGTCCAGCTAGCATTGATTCCAACCCT
11818 T C S TAAGATCTTCACTACATTCAGGAAATCCAGCCAGAAGTCCAGCTAGCATTGATTCCAACCCT
11818 IS [AC] ACCAATTAAATACCAACAGCAACTTAACTACTGATAAGATCTTCACTACATTCAGGAAAT[AC]CAGCCAGAAGTCCAGCTAGCATTGATTCCAACCCTCCTTCA TCAATTTTAATTTATTCAG ctg15665 20
11836 I A GGTGACTGCAAGAGGAGCAAAACTATTAGAACTTCCTACACAA
11836 P C A ATGACGTGGCAGACCGAAGAGCAGTCCCAY
11836 P T A CGCGCCGAGGTGAAGAGCAGTCCCAAY
11836 T C A ATGCTTGGGACTGCTCTTCGTGTGTAGGAAGTTCTAATAGTTTTGCTCCTCTTGCAGTCACCAC
11836 T T A ATGCTTGGGACTGCTCTTCATGTGTAGGAAGTTCTAATAGTTTTGCTCCTCTTGCAGTCACCAC

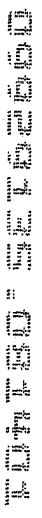
FIGURE 129E

				CAGCAAATGCAAGCAGGTGGTGACTGCAAGAGGAGCAAAACTATTAGAACTTCCTACACA[CT]GAAGAGCAGTCCCAAGCATCCAGGGAAAGATGAAAAAG		
11836	IS	[CT]		CTGTTTGGTTTGGAGACAGACT	ctg22fin6	22
11851	I		A	GGCTCCTCTCTTCCCCTTCCACAGGGTACT		
11851	P	G	A	ATGACGTGGCAGACGGCAGCTGGAGAGAAY		
11851	P	A	A	CGCGCCGAGGAGCAGCTGGAGAGAACY		
11851	T	G	A	GCCAGTTCTCTCCAGCTGCCGTACCCTGTGGAAGGGGAAGAGAGGAGCCCT		
11851	T	A	A	GCCAGTTCTCTCCAGCTGCTGTACCCTGTGGAAGGGGAAGAGAGGAGCCCT		
				GTATGAGGTTTCCAGGTTACGCTGACCTGAGGGCTCCTCTCTTCCCCTTCCACAGGGTAC[GA]GCAGCTGGAGAGAACTGGCCAAGGCTCTGGCCAGCAG		
11851	IS	[GA]		GAACATTCCAGCTGTGGATCCAC	ctg22fin6	22
11875	I		A	CTGTGACCACCAATCTCAACCTCTCTAAAGACTGAGCT		
11875	P	G	A	ATGACGTGGCAGACGTAGGGTTCCCAGTTCCY		
11875	P	A	A	CGCGCCGAGGATAGGGTTCCCAGTTCCY		
11875	T	G	A	CCTGGGAACTGGGAACCCTACGCTCAGTCTTTAGAGAGGTTGAGATTGGTGGTCACAGCC		
11875	T	A	A	CCTGGGAACTGGGAACCCTATGCTCAGTCTTTAGAGAGGTTGAGATTGGTGGTCACAGCC		
				ATTTTCTGTCTGCAAGTCTGGGGCTGTGACCACCAATCTCAACCTCTCTAAAGACTGAGC[GA]TAGGGTTCCCAGTTCCCAGGGGGAGGCCCTCATCCCCC		
11875	IS	[GA]		CACCTGCCAAAACCTCAATAGG	ctg22fin4	22
11880	I		S	GTCGGCCACATGGGGACCGGGT		
11880	P	G	S	ATGACGTGGCAGACCGCAACTGTGCCAAGY		
11880	P	T	S	CGCGCCGAGGAGCAACTGTGCCAAGY		
11880	T	G	S	GGTGCTTGGCACAGTTGCGCCCGGTCCCCATGTGGCCGACAC		
11880	T	T	S	GGTGCTTGGCACAGTTGCTCCCGGTCCCCATGTGGCCGACAC		
				ACAACAGGACAGACTGGCTCAGGCCCCAGGCGCGCCCCTGGAGGTGCTTGGCACAGTTGC[GT]CCCGGTCCCCATGTGGCCGACACTCTCAGACCAGGG		
11880	IS	[GT]		CTCTGCGTGTCCCACCTACGGCAG	ctg22fin4	22
11886	I		A	GCATCACCATAGTCAATGCTTAGAGCCTCAAAAGGTTGTAATCTT		
11886	P	G	A	ATGACGTGGCAGACGGCTCTGGGGAGGY		
11886	P	A	A	CGCGCCGAGGAGCTCTGGGGAGGAY		
11886	T	G	A	TCACTCCTCCCCAGAGCCAGATTACAACCTTTTGAGGCTCTAAGCATTGACTATGGTGATGCCC		
11886	T	A	A	TCACTCCTCCCCAGAGCTAGATTACAACCTTTTGAGGCTCTAAGCATTGACTATGGTGATGCCC		
				GGGACAGTGACTGGGGGCATCACCATAGTCAATGCTTAGAGCCTCAAAAGGTTGTAATCT[GA]GCTCTGGGGAGGAGTGAGGCTGAGCTGAGTCTCCCAC		
11886	IS	[GA]		GGTCTTTAGAATGTGTCCTGGCA	ctg22fin4	22
11889	I		S	CTGACCCCCTTTTCCTGCCTTTTTTGTGTCATCAT		
11889	P	C	S	ATGACGTGGCAGACGGAGTCCCACCATCTGY		
11889	P	T	S	CGCGCCGAGGAGAGTCCCACCATCTGY		
11889	T	C	S	ATGTCAGATGGTGGGACTCCTGATGACACAAAAAAGGCAGGAAAAGGGGGTCAGGG		
11889	T	T	S	ATGTCAGATGGTGGGACTCTTGATGACACAAAAAAGGCAGGAAAAGGGGGTCAGGG		
				AGCTACATTCTTCTAGGTGGGGAAGACAGACAGTATATTTCATGTCAGATGGTGGGACTC[CT]TGATGACACAAAAAAGGCAGGAAAAGGGGGTCAGGGAG		
11889	IS	[CT]		GGTGGGAGGCTGCAGTGTCAGA	ctg22fin4	22
11896	I		A	GGATGGATCGCAAAAATGGCCACACTGCTTT		
11896	P	G	A	ATGACGTGGCAGACGAACCCTCTGTATCCATGY		
11896	P	C	A	CGCGCCGAGGCAACCCTCTGTATCCATGY		
11896	T	G	A	TCTGCATGGATACAGAGGGTTCAAGCAGTGTGGCCATTTTTGCGATCCATCCCA		
11896	T	C	A	TCTGCATGGATACAGAGGGTTGAAGCAGTGTGGCCATTTTTGCGATCCATCCCA		
				TGCACAGAAAGGGGCCAGGTTATGGTGGTGGGATGGATCGCAAAAATGGCCACACTGCTT[GC]AACCCTCTGTATCCATGCAGAGTGACTTTACAGACTCC		
11896	IS	[GC]		CATTAAGAAATAGAGTTTATTT	ctg22fin4	22
11898	I		S	GGCCTGAAGCCCACCACATCTGGATGAAATCA		
11898	P	A	S	CGCGCCGAGGTTCATGCCAAGCCCTY		
11898	P	G	S	ATGACGTGGCAGACCTCATGCCAAGCCCTY		
11898	T	A	S	GCTTAGGGCTTGGCATGAAGATTTCATCCAGATGTGGTGGGCTTCAGGCCCC		
11898	T	G	S	GCTTAGGGCTTGGCATGAGGATTTCATCCAGATGTGGTGGGCTTCAGGCCCC		
				CTGCTTTCTCTCCTAAATGACTTGTCTACTGTTAGACTGATGGCTTAGGGCTTGGCATGA[AG]GATTTCATCCAGATGTGGTGGGCTTCAGGCCCCAGCACA		
11898	IS	[AG]		TTGCTTCCGTCTTCAAGTGGT	ctg22fin10	22
11901	I		A	CCTTGGCATTGCATTGAAAATGAAAGCTTGCTGTTTTGAAT		
11901	P	A	A	CGCGCCGAGGACAATTCTGCTTCATAATCCTY		
11901	P	G	A	ATGACGTGGCAGACGCAATTCTGCTTCATAATCCY		
11901	T	A	A	AATCAGGATTATGAAGCAGAATTGCTTCAAAACAGCAAGCTTTCATTTTCAATGCAATGCCAAGGTC		
11901	T	G	A	AATCAGGATTATGAAGCAGAATTGCTTCAAAACAGCAAGCTTTCATTTTCAATGCAATGCCAAGGTC		
				TCTTACAAATTAGTGAATGACCTTGGCATTGCATTGAAAATGAAAGCTTGCTGTTTTGAA[AG]CAATTCTGCTTCATAATCCTGATTATGAATTTATTTTTGTTT		
11901	IS	[AG]		TCTCCAAAAATCATGTTT	ctg15907	6
11922	I		A	AGCTGAAATCAGTTTTCTGCACCACCCTTGATTAGCTATTTA		
11922	P	T	A	CGCGCCGAGGTCCAGTTCTAAGAGCCCY		
11922	P	C	A	ATGACGTGGCAGACCCCAGTTCTAAGAGCCCY		
11922	T	T	A	CTTCGGGCTCTTAGAACTGGAAAATAGCTAATCAAGGGTGGTGCAGAAAACTGATTTCAGCTGT		
11922	T	C	A	CTTCGGGCTCTTAGAACTGGGAAATAGCTAATCAAGGGTGGTGCAGAAAACTGATTTCAGCTGT		
				TGTAAACTATAAAGGAAACAGCTGAAATCAGTTTTCTGCACCACCCTTGATTAGCTATTT[TC]CCAGTTCTAAGAGCCCGAAGCAAAAAGAACTACAACAGCT		
11922	IS	[TC]		ATAAACAATAGATGCTTTGA	ctg15907	6
11923	I		A	GGGGGCCCGATGCATCTCTTCAATACAGAT		
11923	P	A	A	CGCGCCGAGGACCTCTGCCCTCAGY		
11923	P	C	A	ATGACGTGGCAGACCCCTCTGCCCTCAGY		
11923	T	A	A	CACCCTGAGGGCAGAGGTTCTGTATTGAAGAGATGCATCGGGCCCCCTC		
11923	T	C	A	CACCCTGAGGGCAGAGGGTCTGTATTGAAGAGATGCATCGGGCCCCCTC		
				AAACGGCTTGGCAGTGATGCTCTGTCTTAGAGGGGGCCCGATGCATCTCTTCAATACAGA[AC]CCTCTGCCCTCAGGGTGTTTGCTAGTTAACCACTGAGC		
11923	IS	[AC]		TTGTTTGGATTTAAACCAAAGA	ctg15907	6
11935	I		S	AGAGAAAATCAGCTGAAAGCAGGGTCAGATCATGTAGGAAC		
11935	P	A	S	CGCGCCGAGGTTTTAGGAGATGGTAAAAACGTY		
11935	P	T	S	ATGACGTGGCAGACATTTAGGAGATGGTAAAAACGTY		
11935	T	A	S	CACAACGTTTTTACCATCTCCTAAAATTCCTACATGATCTGACCCTGCTTTCAGCTGATTTTCTCTCC		
11935	T	T	S	CACAACGTTTTTACCATCTCCTAAATTTCCTACATGATCTGACCCTGCTTTCAGCTGATTTTCTCTCC		
				TCCTCTAAAAACCATCCTTTACACTTGGAATAAAACACAACGTTTTTACCATCTCCTAAA[AT]TTCCTACATGATCTGACCCTGCTTTCAGCTGATTTTCTCTCC		
11935	IS	[AT]		CTTTTTCCTGCTTTCTGT	ctg17573	X
11939	I		A	TGGTACCAATAGGAAAGAAGACTCCAGCTAATGAAAAAGTAGAGGTATTGC		
11939	P	T	A	CGCGCCGAGGTTTTAATATTTACTGTTCATAATGGATTGY		
11939	P	G	A	ATGACGTGGCAGACGTTTAATATTTACTGTTCATAATGGATTGY		
11939	T	T	A	GAACCAATCCATTATGAACAGTAAATATTAAAACAATACCTCTACTTTTTCATTAGCTGGAGTCTTCTTTCCTATTGGTACCAGC		
11939	T	G	A	GAACCAATCCATTATGAACAGTAAATATTAAACCAATACCTCTACTTTTTCATTAGCTGGAGTCTTCTTTCCTATTGGTACCAGC		
				ATCCCACAGCTGGTACCAATAGGAAAGAAGACTCCAGCTAATGAAAAAGTAGAGGTATTG[TG]TTTAATATTTACTGTTCATAATGGATTGGTTCAGTGGCTA		
11939	IS	[TG]		CTGTGTCAGGCAGGTACTGT	ctg16537	20
11946	I		S	GTGTGGATACTTTTAAGTCTAGGGTCCGTTTTTCATGGCCA		
11946	P	A	S	CGCGCCGAGGTTGGGAAAACTGTGAACCY		
11946	P	G	S	ATGACGTGGCAGACCTGGGAAAACTGTGAACCY		
11946	T	A	S	TCAGGGTTCACAGTTTTCCCAAGGCCATGAAAAACGGACCCTAGACTTAAAAGTATCCACACAG		
11946	T	G	S	TCAGGGTTCACAGTTTTCCCAGGGCCATGAAAAACGGACCCTAGACTTAAAAGTATCCACACAG		
				GCACACAATCACGCAAGAAAACACAGACTCCTTAAAAGTTCAGGGTTCACAGTTTTCCCA[AG]GGCCATGAAAAACGGACCCTAGACTTAAAAGTATCCACAC		
11946	IS	[AG]		AGTAGAAGCATAAAAGAGCC	ctg15907	6
11959	I		A	CTCAGCCTACAAAACCGCCCAGGCCT		
11959	P	A	A	CGCGCCGAGGATCAAGGACTTCAACCGY		
11959	P	G	A	ATGACGTGGCAGACGTCAAGGACTTCAACCGY		
11959	T	A	A	CTCCCGGTTGAAGTCCTTGATGGCCTGGGCGGTTTTGTAGGCTGAGTC		
11959	T	G	A	CTCCCGGTTGAAGTCCTTGACGGCCTGGGCGGTTTTGTAGGCTGAGTC		

FIGURE 129E

				ATAATTCAGCAGGCAGGACAGGTGTGGTTCCCAGACTCAGCCTACAAAACCGCCCAGGCC[AG]TCAAGGACTTCAACCGGGAGAAGTTGCCCCTGATGATC			
11959	tS	[AG]		TTTGCCAACTGGAGGGGGTTCT	ctg12559	6	ACACB
11961	I		S	TTGTTTGGAAGAGGCACTCCTGGGCCTTTTT			
11961	P	T	S	CGCGCCGAGGATTAAGACGGGTGTCAGY			
11961	P	C	S	ATGACGTGGCAGACGTTAAGACGGGTGTCAGY			
11961	T	T	S	CGAGCTGACACCCGTCTTAATAAAAGGCCCAGGAGTGCCTCTTCCAAACAAAA			
11961	T	C	S	CGAGCTGACACCCGTCTTAACAAAAGGCCCAGGAGTGCCTCTTCCAAACAAAA			
				ACAAAGAAAATCCTGGGCACTTCTGCAGGGCTGCTGGTTCCGAGCTGACACCCGTCTTAA[TC]AAAAGGCCCAGGAGTGCCTCTTCCAAACAAAAACAGCC			
11961	tS	[TC]		TCCTCTCCATAGCTGGGAAGTT	ctg16045	6	
11970	I		S	CTTCCTCCCTAATTAAATTGTCCTCTAAATCGATGTCCTGA			
11970	P	G	S	ATGACGTGGCAGACCACCCATTTTTGCGCTY			
11970	P	A	S	CGCGCCGAGGTACCCATTTTTGCGCTGY			
11970	T	G	S	ACAGCAGCGCAAAAATGGGTGCAGGACATCGATTTAGAGGACAATTTAATTAGGGAGGAAGAA			
11970	T	A	S	ACAGCAGCGCAAAAATGGGTACAGGACATCGATTTAGAGGACAATTTAATTAGGGAGGAAGAA			
				GCTAAAAAAGAAACCCCGGCTTTGGCTCAAGTCGTCCTCTACAGCAGCGCAAAAATGGGT[GA]CAGGACATCGATTTAGAGGACAATTTAATTAGGGAGGAA			
11970	tS	[GA]		GAATACTCCTTCAGTGCAGCC	ctg16829	1	
11984	I		S	CCTGCCAGCTGCCTGCCTGCT			
11984	P	T	S	CGCGCCGAGGATCTCAGATGCCAAAGCY			
11984	P	C	S	ATGACGTGGCAGACGTCTCAGATGCCAAAGCY			
11984	T	T	S	CTGGGCTTTGGCATCTGAGATGCAGGCAGGCAGCTGGCAGGCA			
11984	T	C	S	CTGGGCTTTGGCATCTGAGACGCAGGCAGGCAGCTGGCAGGCA			
				CCAAACCCTCGCTGGAGATCAGATGTCACGGGGCCAGAACCTGGGCTTTGGCATCTGAGA[TC]GCAGGCAGGCAGCTGGCAGGCAGAGTGGAGTGTCTG			
11984	tS	[TC]		CCGCACTGATCCAGCTGATGTGCA			
11989	I		S	GACAAGGACACTGCTCAAGGCATTTCACAAGTTGTTA			
11989	P	G	S	ATGACGTGGCAGACCTTTCAGTGTGGAAATCATTCY			
11989	P	A	S	CGCGCCGAGGTTTTCAGTGTGGAAATCATTCY			
11989	T	G	S	GCCTGAATGATTTCCACACTGAAAGAACAACTTGTGAAATGCCTTGAGCAGTGTCCTTGTCTA			
11989	T	A	S	GCCTGAATGATTTCCACACTGAAAAAACAACTTGTGAAATGCCTTGAGCAGTGTCCTTGTCTA			
				TACAGGACGAAAGGGTACGAAGGATGGTGGCGCAGAGCCTGAATGATTTCCACACTGAAA[GA]AACAACTTGTGAAATGCCTTGAGCAGTGTCCTTGTCTA			
11989	tS	[GA]		CTCAGCATATACCTGAACTGTA	ctg13655	10	
11990	I		S	TGGAGTCAGACAAGCCTGAGTCCAGTTCCCA			
11990	P	G	S	ATGACGTGGCAGACCGTTTAGAACTCATTAGCTGTY			
11990	P	A	S	CGCGCCGAGGTGTTTAGAACTCATTAGCTGTY			
11990	T	G	S	TCACACAGCTAATGAGTTCTAAACGGGGAACTGGACTCAGGCTTGTCTGACTCCAAA			
11990	T	A	S	TCACACAGCTAATGAGTTCTAAACAGGGAACTGGACTCAGGCTTGTCTGACTCCAAA			
				ACCCGGGCTCAGAGGGGTTAAGGGACTCACCCAGAGTCACACAGCTAATGAGTTCTAAAC[GA]GGGAACTGGACTCAGGCTTGTCTGACTCCAAATCCCAC			
11990	tS	[GA]		ATTCTTTCCATTCCACTGGGCT	ctg13655	10	KIAA0018
11993	I		S	CCAAACCTCCCTCATGCTAGGAGGCCCT			
11993	P	G	S	CGCGCCGAGGCCCAGCTCCAACCCY			
11993	P	C	S	ATGACGTGGCAGACGCCAGCTCCAACCCY			
11993	T	G	S	GGGTGGGTTGGAGCTGGGGGGCCTCCTAGCATGAGGGAGGTTTGGCA			
11993	T	C	S	GGGTGGGTTGGAGCTGGCGGGCCTCCTAGCATGAGGGAGGTTTGGCA			
				TCACACACAGTGTCAGCAGGGAGAGCTGTGGGTACAGGGTTGGGGGTGGGTTGGAGCTGG[GC]GGGCCTCCTAGCATGAGGGAGGTTTGGCAGGCTAGC			
11993	tS	[GC]		AGAAATGGGGCTGTTGACTTAGGG	ctg16537	20	
12006	I		A	GATGGAATACTTTTAAAGGTAAGACAGCTTAAGAAGATAGGCCT			
12008	P	G	A	ATGACGTGGCAGACGTTTCCGAGATGCAGAAGY			
12008	P	A	A	CGCGCCGAGGATTTCCGAGATGCAGAAGY			
12008	T	G	A	GTAACTTCTGCATCTCGGAAACGGCCTATCTTCTTAAGCTGTCTTACCTTTAAAAGTATTCCATCTC			
12008	T	A	A	GTAACTTCTGCATCTCGGAAATGGCCTATCTTCTTAAGCTGTCTTACCTTTAAAAGTATTCCATCTC			
				CAGAAGCAAGTTTAAGAGATGGAATACTTTTAAAGGTAAGACAGCTTAAGAAGATAGGCC[GA]TTTCCGAGATGCAGAAGTTACCTATAAATATCATACAAAC			
12008	tS	[GA]		TTTCTATAAGAGAGCAATGA	ctg16537	20	
12011	I		A	TGCATTCCATGTGAACAACAGGAGACATTTAATTGCTTGAAAAGTTCT			
12011	P	A	A	CGCGCCGAGGATTGATCTAATTCTTGTAATAAATCATTGY			
12011	P	G	A	ATGACGTGGCAGACGTTGATCTAATTCTTGTAATAAATCATTGY			
12011	T	A	A	TGAACAATGATTTATTACAAGAATTAGATCAATGAACTTTTCAAGCAATTAAATGTCTCCTGTTGTTCACATGGAATGCAAC			
12011	T	G	A	TGAACAATGATTTATTACAAGAATTAGATCAACGAACTTTTCAAGCAATTAAATGTCTCCTGTTGTTCACATGGAATGCAAC			
				CTTTTATGGGTGTTGCATTCCATGTGAACAACAGGAGACATTTAATTGCTTGAAAAGTTC[AG]TTGATCTAATTCTTGTAATAAATCATTGTTCACATTTCCTG			
12011	tS	[AG]		GAACCATGGTACCTAGGGT	ctg16586	20	
12017	I		A	CTCCGTGGACTTGACATTGGTTTTCCTGCCAA			
12017	P	T	A	CGCGCCGAGGTCTATTTCGCTAGGAGATCAY			
12017	P	C	A	ATGACGTGGCAGACCCTATTTCGCTAGGAGATCY			
12017	T	T	A	CTTCTGATCTCCTAGCGAAATAGATGGCAGGAAAACCAATGTCAAGTCCACGGAGGC			
12017	T	C	A	CTTCTGATCTCCTAGCGAAATAGGTGGCAGGAAAACCAATGTCAAGTCCACGGAGGC			
				AACCCTCCTTGCACTTGTCTCCTCACTGCCTCCGTGGACTTGACATTGGTTTTCCTGCCA[TC]CTATTTCGCTAGGAGATCAGAAGAATTAATGGGCACTTTG			
12017	tS	[TC]		TCATCCATGAGTCTAAAGAT	ctg17450	X	
12022	I		S	GTTGTTCCCTTTTGAAGAGAACTCTTTGTCCTGTGGTTTCATTC			
12022	P	C	S	ATGACGTGGCAGACGGTCTGACCAGCGGY			
12022	P	A	S	CGCGCCGAGGTGTCTGACCAGCGGY			
12022	T	C	S	GAAACCGCTGGTCAGACCAATGAAACCACAGGACAAAGAGTTCTCTTCAAAAGGGAACAACAA			
12022	T	A	S	GAAACCGCTGGTCAGACAAATGAAACCACAGGACAAAGAGTTCTCTTCAAAAGGGAACAACAA			
				CCGTTCACCCTCCCTGTTTTATAGATGGCAAGCATCTCCTAAAGAAACCGCTGGTCAGAC[CA]AATGAAACCACAGGACAAAGAGTTCTCTTCAAAAGGGAA			
12022	tS	[CA]		CAACAAGAAGGAGAGAAAAAA	ctg17450	X	
12039	I		A	TCTTAGAATTCGCTGTCATGATACCATTTGCATAACCTTT			
12039	P	G	A	ATGACGTGGCAGACGTTCCTCACTGTTTTCTTTGY			
12039	P	A	A	CGCGCCGAGGATTCCTCACTGTTTTCTTTGY			
12039	T	G	A	CATGCAAAGAAAACAGTGAGGAACAAGGTTATGCAAATGGTATCATGACAGCGAATTCTAAGAAA			
12039	T	A	A	CATGCAAAGAAAACAGTGAGGAATAAGGTTATGCAAATGGTATCATGACAGCGAATTCTAAGAAA			
				GGATAAACTAGTAGTTTCTTTTCTTAGAATTCGCTGTCATGATACCATTTGCATAACCTT[GA]TTCCTCACTGTTTTCTTTGCATGGAAACTAGTGTTGACTGT			
12039	tS	[GA]		TTCGTCCCTACCCTCAGTA	ctg17450	X	
12047	I		A	CATGGCTGTTGGGTTGCTCTGCCTCATGT			
12047	P	C	A	CGCGCCGAGGCTCTGCCCTCCTTCCY			
12047	P	G	A	ATGACGTGGCAGACGTCTGCCCTCCTTCCY			
12047	T	C	A	AAGAGGAAGGAGGGCAGAGCATGAGGCAGAGCAACCCAACAGCCATGGA			
12047	T	G	A	AAGAGGAAGGAGGGCAGACCATGAGGCAGAGCAACCCAACAGCCATGGA			
				TCCTGTAGGTGTTGCATCGTCTCTTCAGCCTCCATGGCTGTTGGGTTGCTCTGCCTCATG[CG]TCTGCCCTCCTTCCTCTTTGTCCCTCAGAGCCTCTGGTT			
12047	tS	[CG]		TTGTGCTTTCTCCTCCCAGGG	ctg17450	X	
12050	I		A	TCAGAACTGCATCACATGTTCACCCCTAAACCAATCAC			
12050	P	T	A	CGCGCCGAGGTGAGCAAAGGGTCATTAGY			
12050	P	A	A	ATGACGTGGCAGACAGAGCAAAGGGTCATTAGY			
12050	T	T	A	GGACCTAATGACCCTTTGCTCATGATTGGTTTAGGGGTGAACATGTGATGCAGTTCTGACC			
12050	T	A	A	GGACCTAATGACCCTTTGCTCTTGATTGGTTTAGGGGTGAACATGTGATGCAGTTCTGACC			
				AGCTTCCTTTAAGATCCCATTGGTCAGAACTGCATCACATGTTCACCCCTAAACCAATCA[TA]GAGCAAAGGGTCATTAGGTCCCTCATGATTGGCTTAGATC			
12050	tS	[TA]		CCGTAATGGATCATCCACTA	ctg17450	X	
12052	I		S	GCAGGTCTTCAGCTGTCATTGTTCCCCCTGT			
12052	P	C	S	ATGACGTGGCAGACGCTTCTCCTTTTGGAACAY			
12052	P	T	S	CGCGCCGAGGACTTCTCCTTTTGGAACATAGY			
12052	T	C	S	ATTTCTATGTTCCAAAAGGAGAAGCCAGGGGGAACAATGACAGCTGAAGACCTGCTG			
12052	T	T	S	ATTTCTATGTTCCAAAAGGAGAAGTCAGGGGGAACAATGACAGCTGAAGACCTGCTG			

FIGURE 129E



				GGCATAAGTAACTTGAAATGACAAAGAGTTTAGGATATTTCTATGTTCCAAAAGGAGAAG[CT]CAGGGGGAACAATGACAGCTGAAGACCTGCTGAATAACTT		
12052 IS	[CT]			TTGACTGTTAGGATTTTGAG	MULTIPLE	16
12057 I		A		GAAGGTGAGCCCTGCCGGCCTCA		
12057 P	T	A		CGCGCCGAGGTGGGACCTGCACGY		
12057 P	C	A		ATGACGTGGCAGACCGGGACCTGCACGY		
12057 T	T	A		GTTCCGTGCAGGTCCCAGAGGCCGGCAGGGCTCACCTTCCA		
12057 T	C	A		GTTCCGTGCAGGTCCCGGAGGCCGGCAGGGCTCACCTTCCA		
				GGGCCCCGCAGGGAAAGCCCCAGGAAGGTGAGCCCCTGGAAGGTGAGCCCTGCCGGCCTC[TC]GGGACCTGCACGGAACTGTACTGGGGGTGGAGGCG		
12057 IS	[TC]			GAAGGTGAGGGGAGTGGCGGGAAGG	ctg17129	17
12063 I		S		TGAGACTGGGGCTCCTGGTTCTGCAAGTAT		
12063 P	G	S		CGCGCCGAGGCCTCGCATACAGCAGY		
12063 P	C	S		ATGACGTGGCAGACGCTCGCATACAGCAGY		
12063 T	G	S		GCACCTGCTGTATGCGAGGTACTTGCAGAACCAGGAGCCCCAGTCTCACC		
12063 T	C	S		GCACCTGCTGTATGCGAGCTACTTGCAGAACCAGGAGCCCCAGTCTCACC		
				TACCACCTCACTGCCCTGTTCATGTCACGAGGCATTAATGAAGCACCTGCTGTATGCGAG[GC]TACTTGCAGAACCAGGAGCCCCAGTCTCACCTCCACGA		
12063 IS	[GC]			GGTTGTGCTGCCAAGCCCATTT	ctg17129	17
12066 I		A		CCCTAAAGTACCTGCTCTTTCCCCAAACCCAAA		
12066 P	T	A		CGCGCCGAGGTGGGAACCCTCCTTTCY		
12066 P	C	A		ATGACGTGGCAGACCGGGAACCCTCCTTTY		
12066 T	T	A		CATTGAAAGGAGGGTTCCCATTGGGTTTGGGGAAAGAGCAGGTACTTTAGGGCT		
12066 T	C	A		CATTGAAAGGAGGGTTCCCGTTGGGTTTGGGGAAAGAGCAGGTACTTTAGGGCT		
				GCCATAAATGGCAGGGCTGGGACTCAAGCCCTAAAGTACCTGCTCTTTCCCCAAACCCAA[TC]GGGAACCCTCCTTTCAATGGGAGGCCATGAGGCCTCCC		
12066 IS	[TC]			TGAGAGTAGGAAGGTTATCATG	ctg17129	17
12068 I		S		AGATGCCCATGGTTGCATGAAGAGAAAGGCTTTCA		
12068 P	A	S		CGCGCCGAGGTTTCATGTCAAGAGCTACTCY		
12068 P	G	S		ATGACGTGGCAGACCTTCATGTCAAGAGCTACTCY		
12068 T	A	S		TGTGGAGTAGCTCTTGACATGAAAGAAAGCCTTTCTCTTCATGCAACCATGGGCATCTTT		
12068 T	G	S		TGTGGAGTAGCTCTTGACATGAAGGAAAGCCTTTCTCTTCATGCAACCATGGGCATCTTT		
				TGGAAATGCAGTGAATCTTTGAGCAATGAAAGCAATTTGTGGAGTAGCTCTTGACATGAA[AG]GAAAGCCTTTCTCTTCATGCAACCATGGGCATCTTTCCTA		
12068 IS	[AG]			TGTTTTGGAAGTTTCTAAAA		
12080 I		S		CCCACCCTCCCCCTGCCTTGGC		
12080 P	A	S		CGCGCCGAGGTTCCCCGAGCCAAGY		
12080 P	C	S		ATGACGTGGCAGACGTCCCCGAGCCAAGY		
12080 T	A	S		AATTCTTGGCTCGGGGAACCAAGGCAGGGGGAGGGGTGGGCT		
12080 T	C	S		AATTCTTGGCTCGGGGACCCAAGGCAGGGGGAGGGGTGGGCT		
				CCTTGACCGCAAACACTGGCGTTTTTGTGCCCCGGATTTCTGAAATTCTTGGCTCGGGGA[AC]CCAAGGCAGGGGGAGGGGTGGGCTTGTAAAAACTTCCCA		
12080 IS	[AC]			AAGCAGAAATCCGAGCTCCTAG		
12087 I		S		GGGGGTGTACACCTGCTTGACGGAGTCT		
12087 P	T	S		CGCGCCGAGGATAGAGGCCGATGCGY		
12087 P	C	S		ATGACGTGGCAGACGTAGAGGCCGATGCGY		
12087 T	T	S		CATCCGCATCGGCCTCTATGACTCCGTCAAGCAGGTGTACACCCCCAA		
12087 T	C	S		CATCCGCATCGGCCTCTACGACTCCGTCAAGCAGGTGTACACCCCCAA		
				TGGGCTGGTGGCCGGCCTGCAGCGCCAGATGAGCTTCGCCTCCATCCGCATCGGCCTCTA[TC]GACTCCGTCAAGCAGGTGTACACCCCCAAAGGCGCG		
12087 IS	[TC]			GACAGTGAGTGACCAGGTCCCTGA		
12098 I		S		TGCCGGCAGAGTCCACTCCCTTCCT		
12098 P	C	S		ATGACGTGGCAGACGCCCTGGGCCTTTY		
12098 P	T	S		CGCGCCGAGGACCCTGGGCCTTTTY		
12098 T	C	S		CACCAAAAGGCCCAGGGCGGAAGGGAGTGGACTCTGCCGGCAGG		
12098 T	T	S		CACCAAAAGGCCCAGGGTGGAAGGGAGTGGACTCTGCCGGCAGG		
				GCCAGGCAGAGCGAGGCCTGGGACTCACTCACAGTAACCCTTTCACCAAAAGGCCCAGGG[CT]GGAAGGGAGTGGACTCTGCCGGCAGGAGCTGAGAAA		
12098 IS	[CT]			TCCTCTGAGTAGCGGGAAGTGCGG	ctg11	15
12100 I		S		CTCATTTCATCCTCTTATCACCCCACTGCGT		
12100 P	C	S		ATGACGTGGCAGACGTAGTCATCCCCATTGTATAGY		
12100 P	T	S		CGCGCCGAGGATAGTCATCCCCATTGTATAGAY		
12100 T	C	S		TTCATCTATACAATGGGGATGACTATCGCAGTGGGGTGATAAGAGGATGAAATGAGTA		
12100 T	T	S		TTCATCTATACAATGGGGATGACTATCGCAGTGGGGTGATAAGAGGATGAAATGAGTA		
				GGGCAAGTGACTTAACTTCTCTAAGCCTCAGTTTCTTCATCTATACAATGGGGATGACTA[CT]CGCAGTGGGGTGATAAGAGGATGAAATGAGTAAATATTTC		
12100 IS	[CT]			GAAAGTACTTGAAACTATGG	ctg4256	1
12103 I		S		CCTAAAATCAAAGATTTAACTTTCCCAGCTGCCTTCTA		
12103 P	A	S		CGCGCCGAGGTAAAGTATTCAAGACATAGAATGCY		
12103 P	G	S		ATGACGTGGCAGACCAAAGTATTCAAGACATAGAATGCY		
12103 T	A	S		CAGAGCATTCTATGTCTTGAATACTTTAAGAAGGCAGCTGGGAAAGTTAAATCTTTGATTTTAGGAT		
12103 T	G	S		CAGAGCATTCTATGTCTTGAATACTTTGAAGAAGGCAGCTGGGAAAGTTAAATCTTTGATTTTAGGAT		
				AATTTAAATCAGAACTAATAAAGAAAAAAACATCAGAGCATTCTATGTCTTGAATACTTT[AG]AGAAGGCAGCTGGGAAAGTTAAATCTTTGATTTTAGGATATT		
12103 IS	[AG]			TATAAGATATCACATGAT	ctg18647	17
12109 I		S		AGGAAAATAAAAATACAAGTTGAATATCCCTTACCTGAAACATTTGGAT		
12109 P	G	S		CGCGCCGAGGCGAGAAGCATTTCAGATTCAY		
12109 P	C	S		ATGACGTGGCAGACGGAGAAGCATTTCAGATTCAY		
12109 T	G	S		TTTCTGAATCTGAAATGCTTCTCGTCCAAATGTTTCAGGTAAGGGATATTCAACTTGTATTTTTATTTTCCTCA		
12109 T	C	S		TTTCTGAATCTGAAATGCTTCTCCTCCAAATGTTTCAGGTAAGGGATATTCAACTTGTATTTTTATTTTCCTCA		
				ACCTCATGTATATGCAAATTTTCCAAAACCCAAAAAATTTCTGAATCTGAAATGCTTCTC[GC]TCCAAATGTTTCAGGTAAGGGATATTCAACTTGTATTTTTAT		
12109 IS	[GC]			TTTCCTCATTCATATACA	ctg16105	5
12111 I		A		GGCAAGGCAGGCCGGGCACT		
12111 P	G	A		ATGACGTGGCAGACGGTGGCTCACGCTY		
12111 P	A	A		CGCGCCGAGGAGTGGCTCACGCTTY		
12111 T	G	A		TTACAAGCGTGAGCCACCGTGCCCGGCCTGCCTTGCCTG		
12111 T	A	A		TTACAAGCGTGAGCCACTGTGCCCGGCCTGCCTTGCCTG		
				AGAGGGGGTTCTTGGCAGATGACGCCAGCAGCTGACAAACAGGCAAGGCAGGCCGGGCAC[GA]GTGGCTCACGCTTGTAATCCCAGCACTTTGGGAGTCC		
12111 IS	[GA]			AAGGTAAGCGGATCACAAGGTCA	ctg14747	2
12125 I		S		CCACCGCCCGAGGGATGAAGACCAC		
12125 P	A	S		CGCGCCGAGGTAAGTCGCTTACCCGAGY		
12125 P	C	S		ATGACGTGGCAGACGAAGTCGCTTACCCGAY		
12125 T	A	S		TGCCCTCGGGTAAGCGACTTATGGTCTTCATCCCTCGGGCGGTGGCA		
12125 T	C	S		TGCCCTCGGGTAAGCGACTTCTGGTCTTCATCCCTCGGGCGGTGGCA		
				GGGCAGAGCCAGCCCCGGGGCTTGGCAAGGCCGGAACTGGTGCCCTCGGGTAAGCGACTT[AC]TGGTCTTCATCCCTCGGGCGGTGGCACACGCGGCC		
12125 IS	[AC]			CTCGGGGACTGTGGAAAGTTCCGTG	ctg14747	2
12134 I		A		CCCCTGCTGTGGTCAGTTGGGGCA		
12134 P	T	A		CGCGCCGAGGTGGGGAAGAGGTGGY		
12134 P	C	A		ATGACGTGGCAGACCGGGGAAGAGGTGGY		
12134 T	T	A		TCCCCCACCTCTTCCCCAGCCCCAACTGACCACAGCAGGGGAG		
12134 T	C	A		TCCCCCACCTCTTCCCCGGCCCCAACTGACCACAGCAGGGGAG		
				CTACGGCCGCGCTCCGTGCCCTTCATCCATGTGCCCTCCCCTGCTGTGGTCAGTTGGGGC[TC]GGGGAAGAGGTGGGGGATGGGCCGGGGCGCCTGTG		
12134 IS	[TC]			GCCTCTCCCTTACCACATTTTCTTC	ctg17326	12
12147 I		A		GCATCTGTCATGGGACACTCCTCCAGCACT		
12147 P	G	A		ATGACGTGGCAGACGCATGTGGCTATCTTGAGY		
12147 P	A	A		CGCGCCGAGGACATGTGGCTATCTTGAGAY		
12147 T	G	A		CCATTCTCAAGATAGCCACATGCGTGCTGGAGGAGTGTCCCATGACAGATGCAA		
12147 T	A	A		CCATTCTCAAGATAGCCACATGTGTGCTGGAGGAGTGTCCCATGACAGATGCAA		

FIGURE 129E

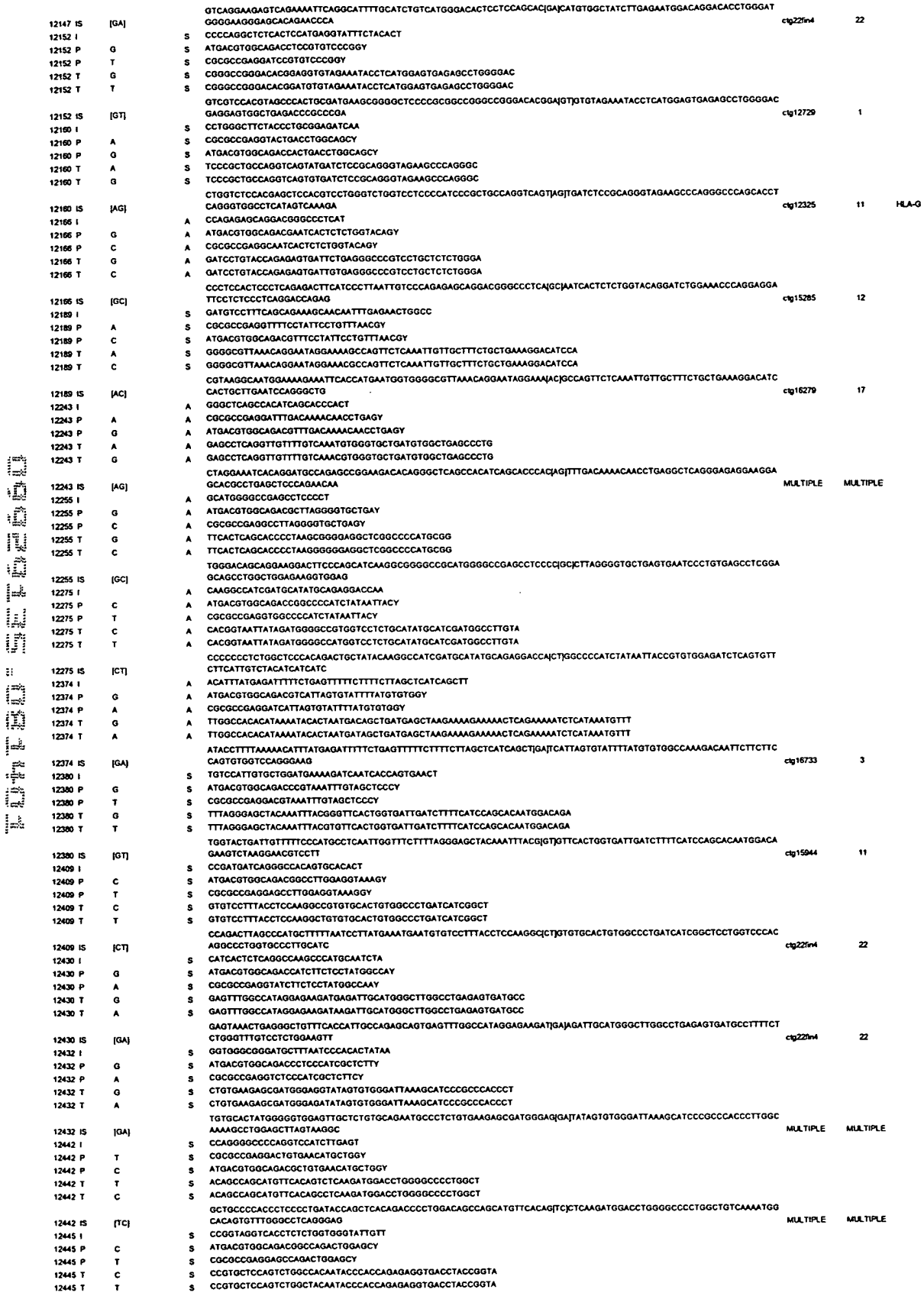

12147 IS [GA] GTCAGGAAGAGTCAGAAAATTCAGGCATTTTGCATCTGTCATGGGACACTCCTCCAGCAC[GA]CATGTGGCTATCTTGAGAATGGACAGGACACCTGGGAT GGGGAAGGGAGCACAGAACCCA ctg22fin4 22
12152 I S CCCCAGGCTCTCACTCCATGAGGTATTTCTACACT
12152 P G S ATGACGTGGCAGACCTCCGTGTCCCGGY
12152 P T S CGCGCCGAGGATCCGTGTCCCGGY
12152 T G S CGGGCCGGGACACGGAGGTGTAGAAATACCTCATGGAGTGAGAGCCTGGGGAC
12152 T T S CGGGCCGGGACACGGATGTGTAGAAATACCTCATGGAGTGAGAGCCTGGGGAC
12152 IS [GT] GTCGTCCACGTAGCCCACTGCGATGAAGCGGGGCTCCCCGCGGCCGGGCCGGGACACGGA[GT]GTGTAGAAATACCTCATGGAGTGAGAGCCTGGGGAC GAGGAGTGGCTGAGACCCGCCCGA ctg12729 1
12160 I S CCTGGGCTTCTACCCTGCGGAGATCAA
12160 P A S CGCGCCGAGGTACTGACCTGGCAGCY
12160 P G S ATGACGTGGCAGACCACTGACCTGGCAGCY
12160 T A S TCCCGCTGCCAGGTCAGTATGATCTCCGCAGGGTAGAAGCCCAGGGC
12160 T G S TCCCGCTGCCAGGTCAGTGTGATCTCCGCAGGGTAGAAGCCCAGGGC
12160 IS [AG] CTGGTCTCCACGAGCTCCACGTCCTGGGTCTGGTCCTCCCCATCCCGCTGCCAGGTCAGT[AG]TGATCTCCGCAGGGTAGAAGCCCAGGGCCCAGCACCT CAGGGTGGCCTCATAGTCAAAGA ctg12325 11 HLA-G
12166 I A CCAGAGAGCAGGACGGGCCCTCAT
12166 P G A ATGACGTGGCAGACGAATCACTCTCTGGTACAGY
12166 P C A CGCGCCGAGGCAATCACTCTCTGGTACAGY
12166 T G A GATCCTGTACCAGAGAGTGATTCTGAGGGCCCGTCCTGCTCTCTGGGA
12166 T C A GATCCTGTACCAGAGAGTGATTGTGAGGGCCCGTCCTGCTCTCTGGGA
12166 IS [GC] CCCTCCACTCCCTCAGAGACTTCATCCCTTAATTGTCCCAGAGAGCAGGACGGGCCCTCA[GC]AATCACTCTCTGGTACAGGATCTGGAAACCCAGGAGGA TTCCTCTCCCTCAGGACCAGAG ctg15285 12
12189 I S GATGTCCTTTCAGCAGAAAGCAACAATTTGAGAACTGGCC
12189 P A S CGCGCCGAGGTTTTCCTATTCCTGTTTAACGY
12189 P C S ATGACGTGGCAGACGTTTCCTATTCCTGTTTAACGY
12189 T A S GGGGCGTTAAACAGGAATAGGAAAAGCCAGTTCTCAAATTGTTGCTTTCTGCTGAAAGGACATCCA
12189 T C S GGGGCGTTAAACAGGAATAGGAAACGCCAGTTCTCAAATTGTTGCTTTCTGCTGAAAGGACATCCA
12189 IS [AC] CGTAAGGCAATGGAAAAGAAATTCACCATGAATGGTGGGGCGTTAAACAGGAATAGGAAA[AC]GCCAGTTCTCAAATTGTTGCTTTCTGCTGAAAGGACATC CACTGCTTGAATCCAGGGCTG ctg16279 17
12243 I A GGGCTCAGCCACATCAGCACCCACT
12243 P A A CGCGCCGAGGATTTGACAAAACAACCTGAGY
12243 P G A ATGACGTGGCAGACGTTTGACAAAACAACCTGAGY
12243 T A A GAGCCTCAGGTTGTTTTGTCAAACGTGGGTGCTGATGTGGCTGAGCCCTG
12243 T G A GAGCCTCAGGTTGTTTTGTCAAACGTGGGTGCTGATGTGGCTGAGCCCTG
12243 IS [AG] CTAGGAAATCACAGGATGCCAGAGCCGGAAGACACAGGGCTCAGCCACATCAGCACCCAC[AG]TTTGACAAAACAACCTGAGGCTCAGGGAGAGGAAGGA GCACGCCTGAGCTCCCAGAACAA MULTIPLE MULTIPLE
12255 I A GCATGGGGCCGAGCCTCCCCT
12255 P G A ATGACGTGGCAGACGCTTAGGGGTGCTGAY
12255 P C A CGCGCCGAGGCCTTAGGGGTGCTGAGY
12255 T G A TTCACTCAGCACCCCTAAGCGGGGAGGCTCGGCCCCATGCGG
12255 T C A TTCACTCAGCACCCCTAAGGGGGGAGGCTCGGCCCCATGCGG
12255 IS [GC] TGGGACAGCAGGAAGGACTTCCCAGCATCAAGGCGGGGCCGCATGGGGCCGAGCCTCCCC[GC]CTTAGGGGTGCTGAGTGAATCCCTGTGAGCCTCGGA GCAGCCTGGCTGGAGAAGGTGGAG ctg22fin4 22
12275 I A CAAGGCCATCGATGCATATGCAGAGGACCAA
12275 P C A ATGACGTGGCAGACCGGCCCCATCTATAATTACY
12275 P T A CGCGCCGAGGTGGCCCCATCTATAATTACY
12275 T C A CACGGTAATTATAGATGGGGCCGTGGTCCTCTGCATATGCATCGATGGCCTTGTA
12275 T T A CACGGTAATTATAGATGGGGCCATGGTCCTCTGCATATGCATCGATGGCCTTGTA
12275 IS [CT] CCCCCCCTCTGGCTCCCACAGACTGCTATACAAGGCCATCGATGCATATGCAGAGGACCA[CT]GGCCCCATCTATAATTACCGTGTGGAGATCTCAGTGTT CTTCATTGTCTACATCATCATC
12374 I A ACATTTATGAGATTTTTCTGAGTTTTTCTTTTCTTAGCTCATCAGCTT
12374 P G A ATGACGTGGCAGACGTCATTAGTGTATTTTATGTGTGGY
12374 P A A CGCGCCGAGGATCATTAGTGTATTTTATGTGTGGY
12374 T G A TTGGCCACACATAAAATACACTAATGACAGCTGATGAGCTAAGAAAAGAAAAACTCAGAAAAATCTCATAAATGTTT
12374 T A A TTGGCCACACATAAAATACACTAATGATAGCTGATGAGCTAAGAAAAGAAAAACTCAGAAAAATCTCATAAATGTTT
12374 IS [GA] ATACCTTTTAAAAACATTTATGAGATTTTTCTGAGTTTTTCTTTTCTTAGCTCATCAGCT[GA]TCATTAGTGTATTTTATGTGTGGCCAAAGACAATTCTTCTTC CAGTGTGGTCCAGGGAAG ctg16733 3
12380 I S TGTCCATTGTGCTGGATGAAAAGATCAATCACCAGTGAACT
12380 P G S ATGACGTGGCAGACCCGTAAATTTGTAGCTCCCY
12380 P T S CGCGCCGAGGACGTAAATTTGTAGCTCCCY
12380 T G S TTTAGGGAGCTACAAATTTACGGGTTCACTGGTGATTGATCTTTTCATCCAGCACAATGGACAGA
12380 T T S TTTAGGGAGCTACAAATTTACGTGTTCACTGGTGATTGATCTTTTCATCCAGCACAATGGACAGA
12380 IS [GT] TGGTACTGATTGTTTTTCCCATGCCTCAATTGGTTTCTTTTAGGGAGCTACAAATTTACG[GT]GTTCACTGGTGATTGATCTTTTCATCCAGCACAATGGACA GAAGTCTAAGGAACGTCCTT ctg15944 11
12409 I S CCGATGATCAGGGCCACAGTGCACACT
12409 P C S ATGACGTGGCAGACGGCCTTGGAGGTAAAGY
12409 P T S CGCGCCGAGGAGCCTTGGAGGTAAAGGY
12409 T C S GTGTCCTTTACCTCCAAGGCCGTGTGCACTGTGGCCCTGATCATCGGCT
12409 T T S GTGTCCTTTACCTCCAAGGCTGTGTGCACTGTGGCCCTGATCATCGGCT
12409 IS [CT] CCAGACTTAGCCCATGCTTTTTAATCCTTATGAAATGAATGTGTCCTTTACCTCCAAGGC[CT]GTGTGCACTGTGGCCCTGATCATCGGCTCCTGGTCCCAC AGGCCCTGGTGCCCTTGCATC ctg22fin4 22
12430 I S CATCACTCTCAGGCCAAGCCCATGCAATCTA
12430 P G S ATGACGTGGCAGACCATCTTCTCCTATGGCCAY
12430 P A S CGCGCCGAGGTATCTTCTCCTATGGCCAAY
12430 T G S GAGTTTGGCCATAGGAGAAGATGAGATTGCATGGGCTTGGCCTGAGAGTGATGCC
12430 T A S GAGTTTGGCCATAGGAGAAGATAAGATTGCATGGGCTTGGCCTGAGAGTGATGCC
12430 IS [GA] GAGTAAACTGAGGGCTGTTTCACCATTGCCAGAGCAGTGAGTTTGGCCATAGGAGAAGAT[GA]AGATTGCATGGGCTTGGCCTGAGAGTGATGCCTTTTCT CTGGGTTTGTCCTCTGGAAGTT ctg22fin4 22
12432 I S GGTGGGCGGGATGCTTTAATCCCACACTATAA
12432 P G S ATGACGTGGCAGACCCTCCCATCGCTCTTY
12432 P A S CGCGCCGAGGTCTCCCATCGCTCTTCY
12432 T G S CTGTGAAGAGCGATGGGAGGTATAGTGTGGGATTAAAGCATCCCGCCCACCCT
12432 T A S CTGTGAAGAGCGATGGGAGATATAGTGTGGGATTAAAGCATCCCGCCCACCCT
12432 IS [GA] TGTGCACTATGGGGGTGGAGTTGCTCTGTGCAGAATGCCCTCTGTGAAGAGCGATGGGAG[GA]TATAGTGTGGGATTAAAGCATCCCGCCCACCCTTGGC AAAAGCCTGGAGCTTAGTAAGGC MULTIPLE MULTIPLE
12442 I S CCAGGGGCCCCAGGTCCATCTTGAGT
12442 P T S CGCGCCGAGGACTGTGAACATGCTGGY
12442 P C S ATGACGTGGCAGACGCTGTGAACATGCTGGY
12442 T T S ACAGCCAGCATGTTCACAGTCTCAAGATGGACCTGGGGCCCCTGGCT
12442 T C S ACAGCCAGCATGTTCACAGCCTCAAGATGGACCTGGGGCCCCTGGCT
12442 IS [TC] GCTGCCCCACCCTCCCCTGATACCAGCTCACAGACCCCTGGACAGCCAGCATGTTCACAG[TC]CTCAAGATGGACCTGGGGCCCCTGGCTGTCAAAATGG CACAGTGTTTGGGCCTCAGGGAG MULTIPLE MULTIPLE
12445 I S CCGGTAGGTCACCTCTCTGGTGGGTATTGTT
12445 P C S ATGACGTGGCAGACGGCCAGACTGGAGCY
12445 P T S CGCGCCGAGGAGCCAGACTGGAGCY
12445 T C S CCGTGCTCCAGTCTGGCCACAATACCCACCAGAGAGGTGACCTACCGGTA
12445 T T S CCGTGCTCCAGTCTGGCTACAATACCCACCAGAGAGGTGACCTACCGGTA

FIGURE 129E

				AAAAGAAACTCATGTGGTCACTGGGGATTCTATAGAGTGGGGCCCGTGCTCCAGTCTGGC[CT]ACAATACCCACCAGAGAGGTGACCTACCGGTACGCAAC		
12445	IS	[CT]		AGAGGCGATTTCATTCTTATCC	MULTIPLE	22
12447	I		S	GGAGACCCCACTTCTACATGCAGCTTCCATTATGAT		
12447	P	T	S	CGCGCCGAGGACACCCAGGAAGTGGY		
12447	P	C	S	ATGACGTGGCAGACGCACCCAGGAAGTGGY		
12447	T	T	S	AACCCCACTTCCTGGGTGTTCATAATGGAAGCTGCATGTAGAAGTGGGGTCTCCAC		
12447	T	C	S	AACCCCACTTCCTGGGTGCTCATAATGGAAGCTGCATGTAGAAGTGGGGTCTCCAC		
				ATTGCTGGTCTGTCTCATTTTGCCACCCCGGCACAGTGAGAGAACCCCACTTCCTGGGTG[TC]TCATAATGGAAGCTGCATGTAGAAGTGGGGTCTCCACT		
12447	IS	[TC]		CAGCTCAGAGCAGGAAAGGTGA	ctg22fin4	22
12448	I		A	AGTCAAGAGGGGCATTTGGTCCTCTTGTCCTT		
12448	P	C	A	CGCGCCGAGGCCATTCTCAGGCATGGY		
12448	P	G	A	ATGACGTGGCAGACGCATTCTCAGGCATGGY		
12448	T	C	A	CTACCCATGCCTGAGAATGGAGGACAAGAGGACCAAATGCCCCTCTTGACTCG		
12448	T	G	A	CTACCCATGCCTGAGAATGCAGGACAAGAGGACCAAATGCCCCTCTTGACTCG		
				CAGTGCCCCCAGGGGCTTCCTCCTGGGCGAGTCAAGAGGGGCATTTGGTCCTCTTGTCCT[CG]CATTCTCAGGCATGGGTAGATGGGAGATGCCCCCCTC		
12448	IS	[CG]		TGCAGCCCCAGGCAGTGGGCCTG	ctg22fin4	22
12467	I		S	GCCCTTTTCCAGGAGCCACGTCCTCAT		
12467	P	C	S	ATGACGTGGCAGACGTCTCTTTGCTTGATAAACCTY		
12467	P	T	S	CGCGCCGAGGATCTCTTTGCTTGATAAACCTY		
12467	T	C	S	CCCCAGGTTTATCAAGCAAAGAGACTGAGGACGTGGCTCCTGGAAAAGGGCTG		
12467	T	T	S	CCCCAGGTTTATCAAGCAAAGAGATTGAGGACGTGGCTCCTGGAAAAGGGCTG		
				CTTTTTTGGGGTTTATTTTGCTGGGTTGGAGGCCGTCCCCAGGTTTATCAAGCAAAGAGA[CT]TGAGGACGTGGCTCCTGGAAAAGGGCTGGGAGGGAAGA		
12467	IS	[CT]		GCCAGGGAGGGGTCTGCACCCT	ctg22fin4	22
12502	I		S	GGAACGGAGGGACAGGACCCCACCA		
12502	P	G	S	ATGACGTGGCAGACCGCCATCAGGGGCY		
12502	P	A	S	CGCGCCGAGGTGCCATCAGGGGCY		
12502	T	G	S	GCAGGCCCCTGATGGCGGGTGGGGTCCTGTCCCTCCGTTCCTA		
12502	T	A	S	GCAGGCCCCTGATGGCAGGTGGGGTCCTGTCCCTCCGTTCCTA		
				GGTCCTCTGCTCTCTGGGTGGGGTCCGTGGGAACCGTGTTATGAGCAGGCCCCTGATGGC[GA]GGTGGGGTCCTGTCCCTCCGTTCCTACCCAGCCACG		
12502	IS	[GA]		GGTGGCAGTTCTGTCTTCCTCCTG	ctg22fin4	22
12522	I		A	CTCATTCACCAGATCCAGGAATCCCTTCACTGGTT		
12522	P	A	A	CGCGCCGAGGACTTTGGGCCCTTCCY		
12522	P	G	A	ATGACGTGGCAGACGCTTTGGGCCCTTCY		
12522	T	A	A	GCACGGAAGGGCCCAAAGTACCAGTGAAGGGATTCCTGGATCTGGTGAATGAGAA		
12522	T	G	A	GCACGGAAGGGCCCAAAGCACCAGTGAAGGGATTCCTGGATCTGGTGAATGAGAA		
				AGGGCCCTGGGTGATCACCTCGTCTTCTCATTCACCAGATCCAGGAATCCCTTCACTGGT[AG]CTTTGGGCCCTTCCGTGCATCTCTCTAATGACAGGGCA		
12522	IS	[AG]		CATGTGCTGTGCACAGTCCAGT	ctg22fin4	22
12525	I		A	AGTTAGCCTCTGTGACTTTTAGGCTCCAAAGTACTTCATGTGC		
12525	P	G	A	ATGACGTGGCAGACGGTCTGCCAAAACCCY		
12525	P	T	A	CGCGCCGAGGTGTCTGCCAAAACCCTY		
12525	T	G	A	TTCAAGGGTTTTGGCAGACCCACATGAAGTACTTTGGAGCCTAAAAGTCACAGAGGCTAACTCC		
12525	T	T	A	TTCAAGGGTTTTGGCAGACACACATGAAGTACTTTGGAGCCTAAAAGTCACAGAGGCTAACTCC		
				CAGTAAACGTATCCAGGGAGTTAGCCTCTGTGACTTTTAGGCTCCAAAGTACTTCATGTG[GT]GTCTGCCAAAACCCTTGAAACTTCATGTTGTTACAGATGA		
12525	IS	[GT]		CTGCAAACACAACACCAATT	ctg22fin6	22
12531	I		S	AGCCTGACCTCGGGGTGGGGAT		
12531	P	T	S	CGCGCCGAGGACCCAGCACTGGACY		
12531	P	C	S	ATGACGTGGCAGACGCCCAGCACTGGAY		
12531	T	T	S	TGTTGTCCAGTGCTGGGTTCCCCACCCCGAGGTCAGGCTGC		
12531	T	C	S	TGTTGTCCAGTGCTGGGCTCCCCACCCCGAGGTCAGGCTGC		
				CCCCGACCAAACCTCGGGGAGCCCTCCTGTGCCCCTCCCTCCTTGTTGTCCAGTGCTGGG[TC]TCCCCACCCCGAGGTCAGGCTGCCCAATCCTCTGACT		
12531	IS	[TC]		GGATCACCGGGGGCTTCTTGCCT	ctg22fin7	22
12552	I		A	CTTCTACTTGCTTCAAAGGCAAATGCAAAACTTTTCATCCCTT		
12552	P	G	A	ATGACGTGGCAGACGGAGAAAGGCCTTTCATTY		
12552	P	A	A	CGCGCCGAGGAGAGAAAGGCCTTTCATTGY		
12552	T	G	A	CCCTCAATGAAAGGCCTTTCTCCAGGGATGAAAAGTTTTGCATTTGCCTTTGAAGCAAGTAGAAGTT		
12552	T	A	A	CCCTCAATGAAAGGCCTTTCTCTAGGGATGAAAAGTTTTGCATTTGCCTTTGAAGCAAGTAGAAGTT		
				GGAAACCTATGTTCTCAACTTCTACTTGCTTCAAAGGCAAATGCAAAACTTTTCATCCCT[GA]GAGAAAGGCCTTTCATTGAGGGCTAGGGCTCACCTGGGG		
12552	IS	[GA]		AACCCACTTAGGAGACACAAA	ctg22fin4	22
12553	I		A	ACAGAACAGAGAATCCACAGGCTAAGGGGGTTCA		
12553	P	C	A	ATGACGTGGCAGACCGCTGGACAGAGGCY		
12553	P	T	A	CGCGCCGAGGTGCTGGACAGAGGCY		
12553	T	C	A	CCAAGCCTCTGTCCAGCGGAACCCCCTTAGCCTGTGGATTCTCTGTTCTGTTG		
12553	T	T	A	CCAAGCCTCTGTCCAGCAGAACCCCCTTAGCCTGTGGATTCTCTGTTCTGTTG		
				AACAAACAGAGACCTTGGGCAAAGGCAACAGAACAGAGAATCCACAGGCTAAGGGGGTTC[CT]GCTGGACAGAGGCTTGGCGACCAGCACAATCTTTCTCT		
12563	IS	[CT]		GTCCAGGTGCAGATGGAGCCAC	ctg22fin4	22
12556	I		S	GCCCCATGCGCTGGTGGCAGTCT		
12556	P	T	S	CGCGCCGAGGACAGAATGGTGAGCATTTY		
12556	P	G	S	ATGACGTGGCAGACCCAGAATGGTGAGCATTTY		
12556	T	T	S	TGGCAAATGCTCACCATTCTGTGACTGCCACCAGCGCATGGGGCCG		
12556	T	G	S	TGGCAAATGCTCACCATTCTGGGACTGCCACCAGCGCATGGGGCCG		
				CTTTTCCTGTGGAGGCTGTACAGTTTGAGTTCCCGTAGATGGCAAATGCTCACCATTCTG[TG]GACTGCCACCAGCGCATGGGGCCGGAGGATGAAGCCAC		
12556	IS	[TG]		ATTCTCTACTCGGTGACTGTAG	ctg22fin4	22
12557	I		S	GGCAGGATTTCCACAGAGGAGATATGCTGGGT		
12557	P	C	S	ATGACGTGGCAGACGTCTCAGGACGCAAGGY		
12557	P	T	S	CGCGCCGAGGATCTCAGGACGCAAGGY		
12557	T	C	S	TCCCCCTTGCGTCCTGAGACCCCAGCATATCTCCTCTGTGGAAATCCTGCCCT		
12557	T	T	S	TCCCCCTTGCGTCCTGAGATCCCAGCATATCTCCTCTGTGGAAATCCTGCCCT		
				AGGGAGATAGCAGACACTCAGAGGTGGGGTCCTGATAGAATTCCCCCTTGCGTCCTGAGA[CT]CCCAGCATATCTCCTCTGTGGAAATCCTGCCCTTAGGA		
12557	IS	[CT]		ATCACTAATTTTATTAATACAA		
12558	I		S	GTTCCAGAGCCACTGTGGCTTAAGTTCCTGTTTTA		
12558	P	A	S	CGCGCCGAGGTCAGTGAATTGTAGCTGGY		
12558	P	G	S	ATGACGTGGCAGACCCAGTGAATTGTAGCTGGY		
12558	T	A	S	GTGCCCAGCTACAATTCACTGAAAAACAGGAACTTAAGCCACAGTGGCTCTGGAACCA		
12558	T	G	S	GTGCCCAGCTACAATTCACTGGAAAACAGGAACTTAAGCCACAGTGGCTCTGGAACCA		
				CTCCTTTATCTTCAAAGCTGCCCCAGCCATACTTTGTGAGTGCCCAGCTACAATTCACTG[AG]AAAACAGGAACTTAAGCCACAGTGGCTCTGGAACCAGCT		
12558	IS	[AG]		TGAGAAAGGATGGGAAACTGT	ctg22fin4	22
12565	I		S	TGGGGCTTCATCTGCCCGCCCT		
12565	P	G	S	CGCGCCGAGGCCAATTCCGTGGGTGY		
12565	P	C	S	ATGACGTGGCAGACGCAATTCCGTGGGTGY		
12565	T	G	S	GAGCCACCCACGGAATTGGGGGCGGGCAGATGAAGCCCCATA		
12565	T	C	S	GAGCCACCCACGGAATTGCGGGCGGGCAGATGAAGCCCCATA		
				TTGGATCATCTTAAAGCAGAACAACATCTTAATGTCTGGTGGGAGCCACCCACGGAATTG[GC]GGGCGGGCAGATGAAGCCCCATAGCAGAATCATGCCCT		
12565	IS	[GC]		CGGACGCCCCTGTGGCCACACC	ctg22fin4	22
12580	I		A	GGGTAAAACTTTCTAAGTGGAAAGCAGAATAAACAGCCTTGTCAA		
12580	P	C	A	ATGACGTGGCAGACCTGGGCATTCTTCCTGY		
12580	P	T	A	CGCGCCGAGGTTGGGCATTCTTCCTGY		
12580	T	C	A	AAAGCAGGAAGAATGCCCAGTGACAAGGCTGTTTATTCTGCTTTCCACTTAGAAAGTTTTACCCTA		
12580	T	T	A	AAAGCAGGAAGAATGCCCAATGACAAGGCTGTTTATTCTGCTTTCCACTTAGAAAGTTTTACCCTA		

FIGURE 129E

				TTTGTTAGACAAACTAGGGTAAAACTTTCTAAGTGGAAAGCAGAATAAACAGCCTTGTCA[CT]TGGGCATTCTTCCTGCTTTGAGGCTAGAGGACCATTTCTG		
12580	IS	[CT]		GATGTGGGACAGAGGTAATG	ctg22fin4	22
12588	I		S	TGTGTGTTTCTGTGAGGGTGCTGCGTGTT		
12588	P	C	S	ATGACGTGGCAGACGTCTGTATCTGAGTGTGTGY		
12588	P	T	S	CGCGCCGAGGATCTGTATCTGAGTGTGTGTY		
12588	T	C	S	GGACACACACACTCAGATACAGACACACGCAGCACCCTCACAGAAACACACAAC		
12588	T	T	S	GGACACACACACTCAGATACAGATACACGCAGCACCCTCACAGAAACACACAAC		
				TGGACCCACAGACTCAGACCTTGGAGAACAGACACCTGGACACACACACTCAGATACAGA[CT]ACACGCAGCACCCTCACAGAAACACACAACGGAACCGG		
12588	IS	[CT]		GGTGCACCTGGACACACAGATG	ctg22fin4	22
12591	I		S	CGAAGAAAAGCATCATGAAGCCTAGAGAATTGGGGACTA		
12591	P	G	S	ATGACGTGGCAGACCGTAGCCTCTAGGAATGAY		
12591	P	A	S	CGCGCCGAGGTGTAGCCTCTAGGAATGAATY		
12591	T	G	S	TCAGATTCATTCCTAGAGGCTACGAGTCCCCAATTCTCTAGGCTTCATGATGCTTTTCTTCGAT		
12591	T	A	S	TCAGATTCATTCCTAGAGGCTACAAGTCCCCAATTCTCTAGGCTTCATGATGCTTTTCTTCGAT		
				GATCCCCAAATTCCATGACCCTAACACTCTGGGATTTTCAGATTCATTCCTAGAGGCTAC[GA]AGTCCCCAATTCTCTAGGCTTCATGATGCTTTTCTTCGAT		
12591	IS	[GA]		GAGGCTAGGATTTGAGGATC	ctg22fin4	22
12605	I		S	GGAGAAACACCATCAGAGGCTCCAAGTGAAGCT		
12605	P	C	S	ATGACGTGGCAGACGAGAACGACTCCAGCAY		
12605	P	T	S	CGCGCCGAGGAAGAACGACTCCAGCAY		
12605	T	C	S	TTTCTGCTGGAGTCGTTCTCGCTTCACTTGGAGCCTCTGATGGTGTTTCTCCAG		
12605	T	T	S	TTTCTGCTGGAGTCGTTCTTGCTTCACTTGGAGCCTCTGATGGTGTTTCTCCAG		
				GGGTGGCTTGGGTGTCAGGGTTGTAGTGTGATTCACCCCATTTTCTGCTGGAGTCGTTCT[CT]GCTTCACTTGGAGCCTCTGATGGTGTTTCTCCAGGATC		
12605	IS	[CT]		AGCCTAAAATTATAAATATCCT	ctg22fin4	22
12611	I		S	GAGCCTGGGTGCCACCACATCCCA		
12611	P	A	S	CGCGCCGAGGTCAGATGGTGTCCAGGY		
12611	P	G	S	ATGACGTGGCAGACCCAGATGGTGTCCAGGY		
12611	T	A	S	GTCTCCTGGACACCATCTGAGGGATGTGGTGGCACCCAGGCTCCA		
12611	T	G	S	GTCTCCTGGACACCATCTGGGGGATGTGGTGGCACCCAGGCTCCA		
				GGCCTTGTCGCAGTCCTCCAGCCCCACAAAGTCTCGCAGGGGTCTCCTGGACACCATCTG[AG]GGGATGTGGTGGCACCCAGGCTCCACCTCGTCTTCTC		
12611	IS	[AG]		TGTCTGCTTCTTCGGGCTAAATG	ctg22fin6	22
12615	I		A	CTCAGGCTCTGCGGCTGCACCTGA		
12615	P	C	A	ATGACGTGGCAGACCGACAGCTCCCCAAY		
12615	P	T	A	CGCGCCGAGGTGACAGCTCCCCAAGY		
12615	T	C	A	CTGCCTTGGGGAGCTGTCGCAGGTGCAGCCGCAGAGCCTGAGCA		
12615	T	T	A	CTGCCTTGGGGAGCTGTCACAGGTGCAGCCGCAGAGCCTGAGCA		
				GGTGCCAGGAAAGGCCGGACCCCCCTCAAGAAGAGTGCTCAGGCTCTGCGGCTGCACCTG[CT]GACAGCTCCCCAAGGCAGCCTCAGCCATCTGGGGTC		
12615	IS	[CT]		TCGGACGTACCGGCTGTGTGTGCA		
12623	I		S	TCTAGGAGACACACATCTGTTCCTGTAAAAAAAAAAAAAAAAAAAAGAAAAAAT		
12623	P	T	S	CGCGCCGAGGAGACTAATGTTCAGCCAAGY		
12623	P	C	S	ATGACGTGGCAGACGGACTAATGTTCAGCCAAGY		
12623	T	T	S	CTCTCTTGGCTGAACATTAGTCTTTTTTTCTTTTTTTTTTTTTTTTTTTTACAGGAACAGATGTGTGTCTCCTAGAAG		
12623	T	C	S	CTCTCTTGGCTGAACATTAGTCCTTTTTTCTTTTTTTTTTTTTTTTTTTTACAGGAACAGATGTGTGTCTCCTAGAAG		
				TTTAGGACCTGGAAGAGAAACCTCCTTCCTGGATCACCCTCTCTTGGCTGAACATTAGTC[TC]TTTTTTCTTTTTTTTTTTTTTTTTTTACAGGAACAGATGTG		
12623	IS	[TC]		TGTCTCCTAGAAGTCTACA	ctg22fin4	22
12626	I		S	GTTTAATCCTCCAATCTCTTGAAGTGTTTCTCTCTTGGATATT		
12626	P	C	S	ATGACGTGGCAGACGTTGAATGTATTTCTGATAAATCCAY		
12626	P	T	S	CGCGCCGAGGATTGAATGTATTTCTGATAAATCCAY		
12626	T	C	S	GTACTGGATTTATCAGAAATACATTCAACATATCCAAGAGAGAAACACTTCAAGAGATTGGAGGATTAAACAA		
12626	T	T	S	GTACTGGATTTATCAGAAATACATTCAATATATCCAAGAGAGAAACACTTCAAGAGATTGGAGGATTAAACAA		
				GGAGAGTTAATGTTCACAGTTTCTTAAGAAATGTACTGGATTTATCAGAAATACATTCAA[CT]ATATCCAAGAGAGAAACACTTCAAGAGATTGGAGGATTAAA		
12626	IS	[CT]		CAAATGTGTATTTGTAAAC	ctg22fin9	22
12629	I		A	TGGGAATGTGAGCGCAAGCTGGCCA		
12629	P	C	A	ATGACGTGGCAGACCAGAACCCGTGGACAY		
12629	P	T	A	CGCGCCGAGGTAGAACCCGTGGACATAAY		
12629	T	C	A	ATGTTTATGTCCACGGGTTCTAGGCCAGCTTGCGCTCACATTCCCAGC		
12629	T	T	A	ATGTTTATGTCCACGGGTTCTAGGCCAGCTTGCGCTCACATTCCCAGC		
				CTGTGTGGGATCTTCTAATGTATGTTTAATTCATGCTGGGAATGTGAGCGCAAGCTGGCC[CT]AGAACCCGTGGACATAAACATCCCTCCAACCTAGGGACC		
12629	IS	[CT]		TTTTTGTCACACTCCCTAACC	ctg22fin5	22
12631	I		A	CCCAGCCTCCCAGGTCCAGCTGA		
12631	P	C	A	ATGACGTGGCAGACCGTGCGGCCGGY		
12631	P	T	A	CGCGCCGAGGTGTGCGGCCGGY		
12631	T	C	A	CTGCCCGGCCGCACGCAGCTGGACCTGGGAGGCTGGGCA		
12631	T	T	A	CTGCCCGGCCGCACACAGCTGGACCTGGGAGGCTGGGCA		
				AAGCAGCCCAAGGGGAACAGGTGACCTTGGCCTGTGTGCCCAGCCTCCCAGGTCCAGCTG[CT]GTGCGGCCGGGCAGCTGAGGATGCTGGGAGCACCTG		
12631	IS	[CT]		CTTGCAGGGCTCTGGGGGCAGCCC	ctg22fin4	22
12635	I		A	TGCTTGGAACTCGCCTGCAACGGGT		
12635	P	A	A	CGCGCCGAGGACAAAGCCATCTCACCTY		
12635	P	G	A	ATGACGTGGCAGACGCAAAGCCATCTCACCY		
12635	T	A	A	GTCTAGGTGAGATGGCTTTGTCCCGTTGCAGGCGAGTTCCAAGCACA		
12635	T	G	A	GTCTAGGTGAGATGGCTTTGCCCCGTTGCAGGCGAGTTCCAAGCACA		
				TACACATGTTCTCTGTGGAAACCATTTGGTTCTCTGTGCTTGGAACTCGCCTGCAACGGG[AG]CAAAGCCATCTCACCTAGACTGTTGTTATGAAGATTGAA		
12635	IS	[AG]		TTAGGTGATTCTGAGAGGCAT	ctg22fin5	22
12637	I		S	AGCTTTTGTGGAAGTTTTTGGCATCAATGTGGATCTTTCCT		
12637	P	G	S	CGCGCCGAGGCTGCAGTTCTCTTGACCY		
12637	P	C	S	ATGACGTGGCAGACGTGCAGTTCTCTTGACCY		
12637	T	G	S	CCTGGGTCAAGAGAACTGCAGGGAAAGATCCACATTGATGCCAAAAACTTCCACAAAAGCTCC		
12637	T	C	S	CCTGGGTCAAGAGAACTGCACGGAAAGATCCACATTGATGCCAAAAACTTCCACAAAAGCTCC		
				TAAGAACCTCAAACAACCAGCTGGGATAGAGATGCACAAGCCTGGGTCAAGAGAACTGCA[GC]GGAAAGATCCACATTGATGCCAAAAACTTCCACAAAAGC		
12637	IS	[GC]		TCCAGCAAGAGAAACAGCTCT	ctg22fin4	22
12638	I		A	ACGACTAAGTCAAAATATTCTTGATCAGACATACAAGTTGCAGA		
12638	P	C	A	ATGACGTGGCAGACCACCTTCCTCACCTTTGY		
12638	P	T	A	CGCGCCGAGGTACCTTCCTCACCTTTGCY		
12638	T	C	A	AATTGCAAAGGTGAGGAAGGTGCTGCAACTTGTATGTCTGATCAAGAATATTTTGACTTAGTCGTGA		
12638	T	T	A	AATTGCAAAGGTGAGGAAGGTACTGCAACTTGTATGTCTGATCAAGAATATTTTGACTTAGTCGTGA		
				AAGGGAAAAAAAGAATCACGACTAAGTCAAAATATTCTTGATCAGACATACAAGTTGCAG[CT]ACCTTCCTCACCTTTGCAATTAGGACTCATTCCCTTAGGG		
12638	IS	[CT]		ATTCTACTTTCTGCTCAAAT	ctg22fin6	22
12648	I		A	ACTCATTGTATTGCTCTTCTTCCTTTGTGATTTTTATTTGCTGT		
12648	P	C	A	ATGACGTGGCAGACCTCTCTGACGAGGTCTCY		
12648	P	A	A	CGCGCCGAGGATCTCTGACGAGGTCTCY		
12648	T	C	A	GCAGGAGACCTCGTCAGAGAGCAGCAAATAAAAATCACAAAGGAAGAAGAGCAATACAATGAGTAA		
12648	T	A	A	GCAGGAGACCTCGTCAGAGATCAGCAAATAAAAATCACAAAGGAAGAAGAGCAATACAATGAGTAA		
				AAGACCAACTCAGACTTACTCATTGTATTGCTCTTCTTCCTTTGTGATTTTTATTTGCTG[CA]TCTCTGACGAGGTCTCCTGCTATCCTCTGCAAAGCTGGTTT		
12648	IS	[CA]		TCAGGACACCCAGGGATTC	ctg22fin4	22
12678	I		A	GCTCCTGGTAAGATGCTGAGGGCCACTTGA		
12678	P	T	A	CGCGCCGAGGTGGGTGGAGCATGATY		
12678	P	C	A	ATGACGTGGCAGACCGGGTGGAGCATGAY		
12678	T	T	A	CAGGATCATGCTCCACCCACAAGTGGCCCTCAGCATCTTACCAGGAGCTC		
12678	T	C	A	CAGGATCATGCTCCACCCGCAAGTGGCCCTCAGCATCTTACCAGGAGCTC		

FIGURE 129E

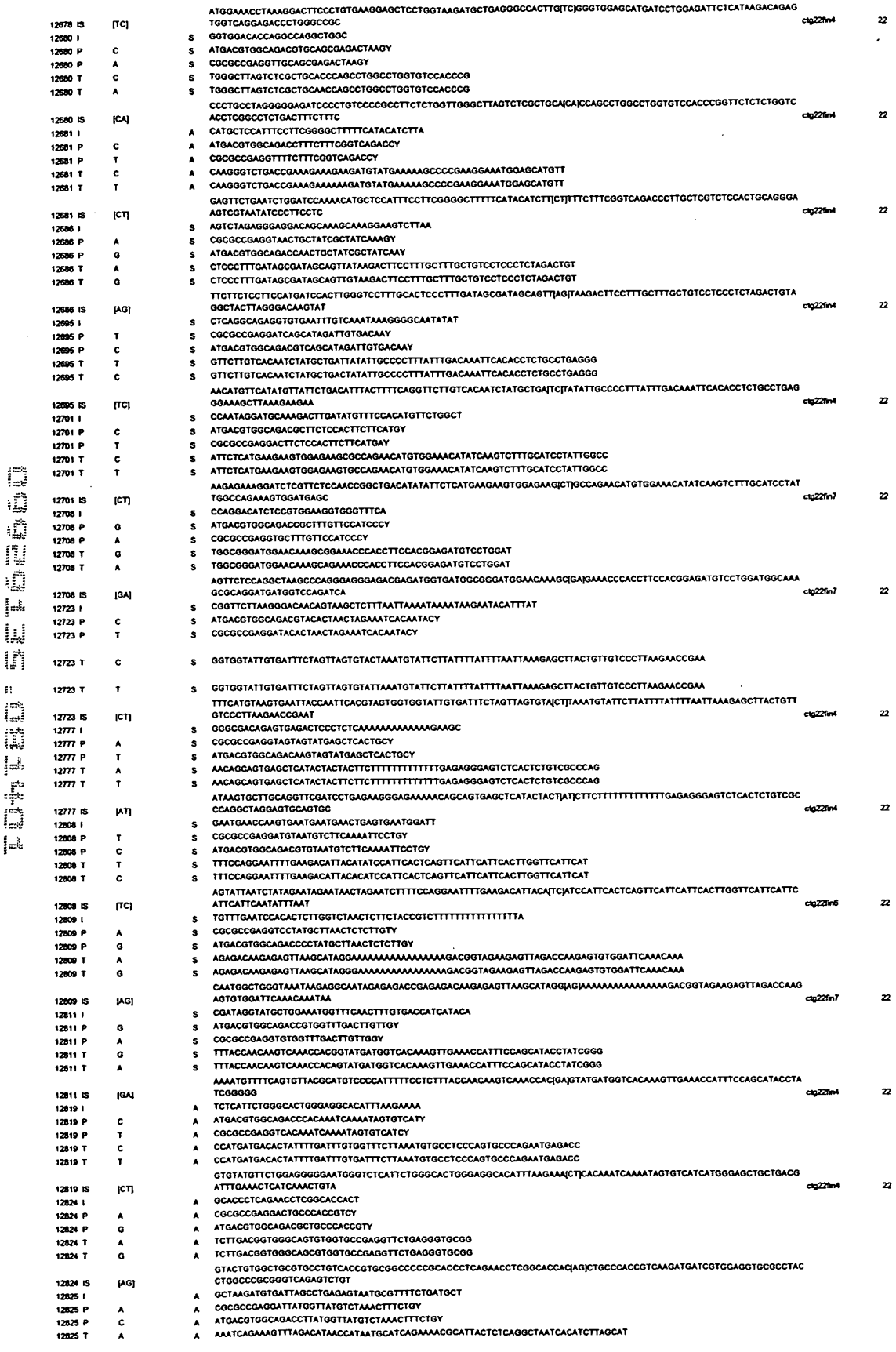
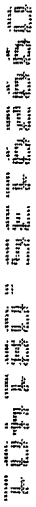

ATGGAAACCTAAAGGACTTCCCTGTGAAGGAGCTCCTGGTAAGATGCTGAGGGCCACTTG[TC]GGGTGGAGCATGATCCTGGAGATTCTCATAAGACAGAG
12678 IS [TC] TGGTCAGGAGACCCTGGGCCGC ctg22fin4 22
12680 I S GGTGGACACCAGGCCAGGCTGGC
12680 P C S ATGACGTGGCAGACGTGCAGCGAGACTAAGY
12680 P A S CGCGCCGAGGTTGCAGCGAGACTAAGY
12680 T C S TGGGCTTAGTCTCGCTGCACCCAGCCTGGCCTGGTGTCCACCCG
12680 T A S TGGGCTTAGTCTCGCTGCAACCAGCCTGGCCTGGTGTCCACCCG
CCCTGCCTAGGGGGAGATCCCCTGTCCCCGCCTTCTCTGGTTGGGCTTAGTCTCGCTGCA[CA]CCAGCCTGGCCTGGTGTCCACCCGGTTCTCTCTGGTC
12680 IS [CA] ACCTCGGCCTCTGACTTTCTTTC ctg22fin4 22
12681 I A CATGCTCCATTTCCTTCGGGGCTTTTTCATACATCTTA
12681 P C A ATGACGTGGCAGACCTTTCTTTCGGTCAGACCY
12681 P T A CGCGCCGAGGTTTTCTTTCGGTCAGACCY
12681 T C A CAAGGGTCTGACCGAAAGAAAGAAGATGTATGAAAAAGCCCCGAAGGAAATGGAGCATGTT
12681 T T A CAAGGGTCTGACCGAAAGAAAAAAGATGTATGAAAAAGCCCCGAAGGAAATGGAGCATGTT
GAGTTCTGAATCTGGATCCAAAACATGCTCCATTTCCTTCGGGGCTTTTTCATACATCTT[CT]TTTCTTTCGGTCAGACCCTTGCTCGTCTCCACTGCAGGGA
12681 IS [CT] AGTCGTAATATCCCTTCCTC ctg22fin4 22
12686 I S AGTCTAGAGGGAGGACAGCAAAGCAAAGGAAGTCTTAA
12686 P A S CGCGCCGAGGTAACTGCTATCGCTATCAAAGY
12686 P G S ATGACGTGGCAGACCAACTGCTATCGCTATCAAY
12686 T A S CTCCCTTTGATAGCGATAGCAGTTATAAGACTTCCTTTGCTTTGCTGTCCTCCCTCTAGACTGT
12686 T G S CTCCCTTTGATAGCGATAGCAGTTGTAAGACTTCCTTTGCTTTGCTGTCCTCCCTCTAGACTGT
TTCTTCTCCTTCCATGATCCACTTGGGTCCTTTGCACTCCCTTTGATAGCGATAGCAGTT[AG]TAAGACTTCCTTTGCTTTGCTGTCCTCCCTCTAGACTGTA
12686 IS [AG] GGCTACTTAGGGACAAGTAT ctg22fin4 22
12695 I S CTCAGGCAGAGGTGTGAATTTGTCAAATAAAGGGGCAATATAT
12695 P T S CGCGCCGAGGATCAGCATAGATTGTGACAAY
12695 P C S ATGACGTGGCAGACGTCAGCATAGATTGTGACAAY
12695 T T S GTTCTTGTCACAATCTATGCTGATTATATTGCCCCTTTATTTGACAAATTCACACCTCTGCCTGAGGG
12695 T C S GTTCTTGTCACAATCTATGCTGACTATATTGCCCCTTTATTTGACAAATTCACACCTCTGCCTGAGGG
AACATGTTCATATGTTATTCTGACATTTACTTTTCAGGTTCTTGTCACAATCTATGCTGA[TC]TATATTGCCCCTTTATTTGACAAATTCACACCTCTGCCTGAG
12695 IS [TC] GGAAAGCTTAAAGAAGAA ctg22fin4 22
12701 I S CCAATAGGATGCAAAGACTTGATATGTTTCCACATGTTCTGGCT
12701 P C S ATGACGTGGCAGACGCTTCTCCACTTCTTCATGY
12701 P T S CGCGCCGAGGACTTCTCCACTTCTTCATGAY
12701 T C S ATTCTCATGAAGAAGTGGAGAAGCGCCAGAACATGTGGAAACATATCAAGTCTTTGCATCCTATTGGCC
12701 T T S ATTCTCATGAAGAAGTGGAGAAGTGCCAGAACATGTGGAAACATATCAAGTCTTTGCATCCTATTGGCC
AAGAGAAAGGATCTCGTTCTCCAACCGGCTGACATATATTCTCATGAAGAAGTGGAGAAG[CT]GCCAGAACATGTGGAAACATATCAAGTCTTTGCATCCTAT
12701 IS [CT] TGGCCAGAAAGTGGATGAGC ctg22fin7 22
12708 I S CCAGGACATCTCCGTGGAAGGTGGGTTTCA
12708 P G S ATGACGTGGCAGACCGCTTTGTTCCATCCCY
12708 P A S CGCGCCGAGGTGCTTTGTTCCATCCCY
12708 T G S TGGCGGGATGGAACAAAGCGGAAACCCACCTTCCACGGAGATGTCCTGGAT
12708 T A S TGGCGGGATGGAACAAAGCAGAAACCCACCTTCCACGGAGATGTCCTGGAT
AGTTCTCCAGGCTAAGCCCAGGGAGGGAGACGAGATGGTGATGGCGGGATGGAACAAAGC[GA]GAAACCCACCTTCCACGGAGATGTCCTGGATGGCAAA
12708 IS [GA] GCGCAGGATGATGGTCCAGATCA ctg22fin7 22
12723 I S CGGTTCTTAAGGGACAACAGTAAGCTCTTTAATTAAAATAAAATAAGAATACATTTAT
12723 P C S ATGACGTGGCAGACGTACACTAACTAGAAATCACAATACY
12723 P T S CGCGCCGAGGATACACTAACTAGAAATCACAATACY
12723 T C S GGTGGTATTGTGATTTCTAGTTAGTGTACTAAATGTATTCTTATTTTTATTTTAATTAAAGAGCTTACTGTTGTCCCTTAAGAACCGAA
12723 T T S GGTGGTATTGTGATTTCTAGTTAGTGTATTAAATGTATTCTTATTTTTATTTTAATTAAAGAGCTTACTGTTGTCCCTTAAGAACCGAA
TTTCATGTAAGTGAATTACCAATTCACGTAGTGGTGGTATTGTGATTTCTAGTTAGTGTA[CT]TAAATGTATTCTTATTTTATTTTAATTAAAGAGCTTACTGTT
12723 IS [CT] GTCCCTTAAGAACCGAAT ctg22fin4 22
12777 I S GGGCGACAGAGTGAGACTCCCTCTCAAAAAAAAAAAAAGAAGC
12777 P A S CGCGCCGAGGTAGTAGTATGAGCTCACTGCY
12777 P T S ATGACGTGGCAGACAAGTAGTATGAGCTCACTGCY
12777 T A S AACAGCAGTGAGCTCATACTACTACTTCTTTTTTTTTTTTTGAGAGGGAGTCTCACTCTGTCGCCCAG
12777 T T S AACAGCAGTGAGCTCATACTACTTCTTCTTTTTTTTTTTTTGAGAGGGAGTCTCACTCTGTCGCCCAG
ATAAGTGCTTGCAGGTTCGATCCTGAGAAGGGAGAAAAACAGCAGTGAGCTCATACTACT[AT]CTTCTTTTTTTTTTTTTGAGAGGGAGTCTCACTCTGTCGC
12777 IS [AT] CCAGGCTAGGAGTGCAGTGC ctg22fin4 22
12808 I S GAATGAACCAAGTGAATGAATGAACTGAGTGAATGGATT
12808 P T S CGCGCCGAGGATGTAATGTCTTCAAAATTCCTGY
12808 P C S ATGACGTGGCAGACGTGTAATGTCTTCAAAATTCCTGY
12808 T T S TTTCCAGGAATTTTGAAGACATTACATATCCATTCACTCAGTTCATTCATTCACTTGGTTCATTCAT
12808 T C S TTTCCAGGAATTTTGAAGACATTACACATCCATTCACTCAGTTCATTCATTCACTTGGTTCATTCAT
AGTATTAATCTATAGAATAGAATAACTAGAATCTTTTCCAGGAATTTTGAAGACATTACA[TC]ATCCATTCACTCAGTTCATTCATTCACTTGGTTCATTCATTC
12808 IS [TC] ATTCATTCAATATTTAAT ctg22fin6 22
12809 I S TGTTTGAATCCACACTCTTGGTCTAACTCTTCTACCGTCTTTTTTTTTTTTTTTTA
12809 P A S CGCGCCGAGGTCCTATGCTTAACTCTCTTGTY
12809 P G S ATGACGTGGCAGACCCCTATGCTTAACTCTCTTGY
12809 T A S AGAGACAAGAGAGTTAAGCATAGGAAAAAAAAAAAAAAAAAAAAGACGGTAGAAGAGTTAGACCAAGAGTGTGGATTCAAACAAA
12809 T G S AGAGACAAGAGAGTTAAGCATAGGAAAAAAAAAAAAAAAAAAAAGACGGTAGAAGAGTTAGACCAAGAGTGTGGATTCAAACAAA
CAATGGCTGGGTAAATAAGAGGCAATAGAGAGACCGAGAGACAAGAGAGTTAAGCATAGG[AG]AAAAAAAAAAAAAAAAGACGGTAGAAGAGTTAGACCAAG
12809 IS [AG] AGTGTGGATTCAAACAAATAA ctg22fin7 22
12811 I S CGATAGGTATGCTGGAAATGGTTTCAACTTTGTGACCATCATACA
12811 P G S ATGACGTGGCAGACCGTGGTTTGACTTGTTGY
12811 P A S CGCGCCGAGGTGTGGTTTGACTTGTTGGY
12811 T G S TTTACCAACAAGTCAAACCACGGTATGATGGTCACAAAGTTGAAACCATTTCCAGCATACCTATCGGG
12811 T A S TTTACCAACAAGTCAAACCACAGTATGATGGTCACAAAGTTGAAACCATTTCCAGCATACCTATCGGG
AAAATGTTTTCAGTGTTACGCATGTCCCCATTTTTCCTCTTTACCAACAAGTCAAACCAC[GA]GTATGATGGTCACAAAGTTGAAACCATTTCCAGCATACCTA
12811 IS [GA] TCGGGGG ctg22fin4 22
12819 I A TCTCATTCTGGGCACTGGGAGGCACATTTAAGAAAA
12819 P C A ATGACGTGGCAGACCCACAAATCAAAATAGTGTCATY
12819 P T A CGCGCCGAGGTCACAAATCAAAATAGTGTCATCY
12819 T C A CCATGATGACACTATTTTGATTTGTGGTTTCTTAAATGTGCCTCCCAGTGCCCAGAATGAGACC
12819 T T A CCATGATGACACTATTTTGATTTGTGATTTCTTAAATGTGCCTCCCAGTGCCCAGAATGAGACC
GTGTATGTTCTGGAGGGGGAATGGGTCTCATTCTGGGCACTGGGAGGCACATTTAAGAAA[CT]CACAAATCAAAATAGTGTCATCATGGGAGCTGCTGACG
12819 IS [CT] ATTTGAAACTCATCAAACTGTA ctg22fin4 22
12824 I A GCACCCTCAGAACCTCGGCACCACT
12824 P A A CGCGCCGAGGACTGCCCACCGTCY
12824 P G A ATGACGTGGCAGACGCTGCCCACCGTY
12824 T A A TCTTGACGGTGGGCAGTGTGGTGCCGAGGTTCTGAGGGTGCGG
12824 T G A TCTTGACGGTGGGCAGCGTGGTGCCGAGGTTCTGAGGGTGCGG
GTACTGTGGCTGCGTGCCTGTCACCGTGCGGCCCCCGCACCCTCAGAACCTCGGCACCAC[AG]CTGCCCACCGTCAAGATGATCGTGGAGGTGCGCCTAC
12824 IS [AG] CTGGCCCGCGGGTCAGAGTCTGT
12825 I A GCTAAGATGTGATTAGCCTGAGAGTAATGCGTTTTCTGATGCT
12825 P A A CGCGCCGAGGATTATGGTTATGTCTAAACTTTCTGY
12825 P C A ATGACGTGGCAGACCTTATGGTTATGTCTAAACTTTCTGY
12825 T A A AAATCAGAAAGTTTAGACATAACCATAATGCATCAGAAAACGCATTACTCTCAGGCTAATCACATCTTAGCAT

FIGURE 129E

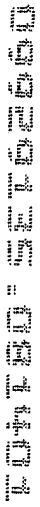
12825	T	C	A	AAATCAGAAAGTTTAGACATAACCATAAGGCATCAGAAAACGCATTACTCTCAGGCTAATCACATCTTAGCAT		
12825	IS	[AC]		TGTTAAATACCAATAAATGCTAAGATGTGATTAGCCTGAGAGTAATGCGTTTTCTGATGC[AC]TTATGGTTATGTCTAAACTTTCTGATTTATGACTGTCTAGC TTACAGGAACTGGTGGCTT	ctg22fin4	22
12827	I		S	CGGAGTCAGGGTGGCCAAGCTCCTTCA		
12827	P	A	S	CGCGCCGAGGTCTTGCCTCTGCGGY		
12827	P	G	S	ATGACGTGGCAGACCCTTGCCTCTGCGGY		
12827	T	A	S	ACAACCGCAGAGGCAAGAAGAAGGAGCTTGGCCACCCTGACTCCGTT		
12827	T	G	S	ACAACCGCAGAGGCAAGGGAAGGAGCTTGGCCACCCTGACTCCGTT		
12827	IS	[AG]		GAGTAAGCCAGGCTTGATATGAGTCGGGGACCCTGGTGCCTTCACAACCGCAGAGGCAAG[AG]GAAGGAGCTTGGCCACCCTGACTCCGTTCACTGCCAT GGCCACAGCCACCTGTGGGGAGT	ctg22fin6	22
12831	I		A	GCCCACCTCCCTGGAATTTCATCCCCCA		
12831	P	T	A	CGCGCCGAGGTCGTCAGTTAAACCCATGY		
12831	P	C	A	ATGACGTGGCAGACCCGTCAGTTAAACCCATGY		
12831	T	T	A	CCACCATGGGTTTAACTGACGAGGGGGATGAAATTCCAGGGAGGTGGGCCC		
12831	T	C	A	CCACCATGGGTTTAACTGACGGGGGGGATGAAATTCCAGGGAGGTGGGCCC		
12831	IS	[TC]		CTTTGGTGCAGAATCATGCTGCAGGCAAGGTGGGCCCACCTCCCTGGAATTTCATCCCCC[TC]CGTCAGTTAAACCCATGGTGGTTTTATTTTCTAGGCCAC CTGATCTGGGAGGACCACCTC	ctg22fin4	22
12834	I		S	GGCAGCCCTTTCCTCCGTCATCTCCTGT		
12834	P	G	S	CGCGCCGAGGCGTGTGAGGTGAGGCY		
12834	P	C	S	ATGACGTGGCAGACGGTGTGAGGTGAGGCY		
12834	T	G	S	GCATGCCTCACCTCACACGCAGGAGATGACGGAGGAAAGGGCTGCCCA		
12834	T	C	S	GCATGCCTCACCTCACACCCAGGAGATGACGGAGGAAAGGGCTGCCCA		
12834	IS	[GC]		GACCCTCCTGGTTGATTGGAGGACTTCTGGGCTTGGTAGTGGGCATGCCTCACCTCACAC[GC]CAGGAGATGACGGAGGAAAGGGCTGCCCAGGGTGCC ATGAGTCTGGGTGGGGCCTGCTGA	ctg22fin4	22
12835	I		S	TCCTATGCCTGTCACTCTCCCTCCCTTCTCTA		
12835	P	A	S	CGCGCCGAGGTTTTATGGGAAAGCCATCCY		
12835	P	G	S	ATGACGTGGCAGACCTTTATGGGAAAGCCATCCY		
12835	T	A	S	CATAGGATGGCTTTCCCATAAAAAGAGAAGGGAGGGAGAGTGACAGGCATAGGAAT		
12835	T	G	S	CATAGGATGGCTTTCCCATAAAGAGAGAAGGGAGGGAGAGTGACAGGCATAGGAAT		
12835	IS	[AG]		ATGGATAAAAACTCAAAGACTGCCAGACACTACACAGTCATAGGATGGCTTTCCCATAAA[AG]AGAGAAGGGAGGGAGAGTGACAGGCATAGGAATGGTTG CCTGTTTCACCTCCCCATGCTC	ctg22fin4	22
12836	I		A	GTTTAGTAGGAACGACATGTGAGGCATGGCCCC		
12836	P	T	A	CGCGCCGAGGTGTCACAGGCATGAAGY		
12836	P	G	A	ATGACGTGGCAGACGGTCACAGGCATGAAGY		
12836	T	T	A	GAACCTTCATGCCTGTGACAGGGCCATGCCTCACATGTCGTTCCTACTAAACTG		
12836	T	G	A	GAACCTTCATGCCTGTGACCGGGCCATGCCTCACATGTCGTTCCTACTAAACTG		
12836	IS	[TG]		ACCACAGGGGCTCGACATGATCAAGTCAGTTTAGTAGGAACGACATGTGAGGCATGGCCC[TG]GTCACAGGCATGAAGGTTCAGAATATAGCCTGGAGTAC ACATGTATCCCTCTGGGCCAGG	ctg22fin4	22
12837	I		A	CTTTTGATGTTCCCAGGCCAGATGCCACAGTTAC		
12837	P	A	A	CGCGCCGAGGAATTAGCAAAAGAACTCAAATAACCY		
12837	P	T	A	ATGACGTGGCAGACTATTAGCAAAAGAACTCAAATAACCY		
12837	T	A	A	TCAGGGTTATTTGAGTTCTTTTGCTAATTTAACTGTGGCATCTGGCCTGGGAACATCAAAAGAC		
12837	T	T	A	TCAGGGTTATTTGAGTTCTTTTGCTAATATAACTGTGGCATCTGGCCTGGGAACATCAAAAGAC		
12837	IS	[AT]		TCCCCTGATGATTAGGAGTTTTGTTGTCTTTTGATGTTCCCAGGCCAGATGCCACAGTTA[AT]ATTAGCAAAAGAACTCAAATAACCCTGAATAGAAGAAAGA GGAGACTCTCGTTATGATGC	ctg22fin4	22
12838	I		S	TGGATGGGGAAACAGGCAAGTTAGGGGGT		
12838	P	C	S	ATGACGTGGCAGACGGCCTAAAAGAGGTGGAY		
12838	P	T	S	CGCGCCGAGGAGCCTAAAAGAGGTGGATY		
12838	T	C	S	CCCCATCCACCTCTTTTAGGCCCCCCCTAACTTGCCTGTTTCCCCATCCAAG		
12838	T	T	S	CCCCATCCACCTCTTTTAGGCTCCCCCTAACTTGCCTGTTTCCCCATCCAAG		
12838	IS	[CT]		GCTAGTCCTCTCCCCAGAATCTGTCTACGGCTCCACCTACCCCATCCACCTCTTTTAGGC[CT]CCCCCTAACTTGCCTGTTTCCCCATCCAAGGGCCTGACT GCCAGCTTAGGCCCGCACCGC	ctg22fin5	22
12839	I		A	CCTGGTGACTGGGCAGCCCTGTGT		
12839	P	C	A	ATGACGTGGCAGACCTCTCTGCCTGCCCY		
12839	P	A	A	CGCGCCGAGGATCTCTGCCTGCCCY		
12839	T	C	A	CCAGGGGCAGGCAGAGAGCACAGGGCTGCCCAGTCACCAGGTC		
12839	T	A	A	CCAGGGGCAGGCAGAGATCACAGGGCTGCCCAGTCACCAGGTC		
12839	IS	[CA]		CCTTAGAGCCCAGGTCCACTGACATGAAGCAGAGAGACCTGGTGACTGGGCAGCCCTGTG[CA]TCTCTGCCTGCCCCTGGCCATGGAGGTGGCCCTGAGG GACATGAGCAGGGTGCAAGGCTG	ctg22fin5	22
12844	I		S	GAGTCCCTAGGTCAACCCTGATGCTGCCT		
12844	P	T	S	CGCGCCGAGGATGGAGAGAGCCCTCY		
12844	P	C	S	ATGACGTGGCAGACGTGGAGAGAGCCCTCY		
12844	T	T	S	TGAGGAGGGCTCTCTCCATGGCAGCATCAGGGTTGACCTAGGGACTCAC		
12844	T	C	S	TGAGGAGGGCTCTCTCCACGGCAGCATCAGGGTTGACCTAGGGACTCAC		
12844	IS	[TC]		CCAATAGGTCAGCTACACAAGACGTGGGCAGGAGTGTCCAGGTGAGGAGGGCTCTCTCCA[TC]GGCAGCATCAGGGTTGACCTAGGGACTCACAGGTCTC CCCCCATGTGCCCTCAATGACTC	ctg22fin4	22
12845	I		A	CAAAGGTCTCACCAAACTTTGTTGCTGGGGGT		
12845	P	A	A	CGCGCCGAGGAACCTCCATTGTGAATCTGY		
12845	P	C	A	ATGACGTGGCAGACCACCTCCATTGTGAATCTGY		
12845	T	A	A	ATAGCAGATTCACAATGGAGGTTCCCCCAGCAACAAAGTTTGGTGAGACCTTTGCA		
12845	T	C	A	ATAGCAGATTCACAATGGAGGTGCCCCCAGCAACAAAGTTTGGTGAGACCTTTGCA		
12845	IS	[AC]		TTGTTGTGACTCTAACCTGTTCTCAAATGCAAAGGTCTCACCAAACTTTGTTGCTGGGGG[AC]ACCTCCATTGTGAATCTGCTATCATCCCCAATGGTTGTAT TTCTTTAAAAATGTTCTTCT	ctg22fin4	22
12848	I		S	CATCTGCACCAAGTACCCTGCACTAGGCCA		
12848	P	A	S	CGCGCCGAGGTGGCCACCCTCCY		
12848	P	G	S	ATGACGTGGCAGACCGGCCACCCTCCY		
12848	T	A	S	GAGGGGAGGGTGGCCAGGCCTAGTGCAGGGTACTTGGTGCAGATGCA		
12848	T	G	S	GAGGGGAGGGTGGCCGGGCCTAGTGCAGGGTACTTGGTGCAGATGCA		
12848	IS	[AG]		GAGTGAGGAAAGAACGGGTGTTGGTGGGTCACTGCAGCAGGTCAGGAGGGGAGGGTGGCC[AG]GGCCTAGTGCAGGGTACTTGGTGCAGATGCAGAAGC TCAGGCTCCCAGCATAGGTTTGTT	ctg22fin4	22
12849	I		A	CCTGCTGGATACGAATAGCAGCACACCCCA		
12849	P	C	A	ATGACGTGGCAGACCTCCAAGTTGTGGCAACY		
12849	P	T	A	CGCGCCGAGGTTCCAAGTTGTGGCAACY		
12849	T	C	A	TCTGGTTGCCACAACTTGGAGGGGGTGTGCTGCTATTCGTATCCAGCAGGTA		
12849	T	T	A	TCTGGTTGCCACAACTTGGAAGGGGTGTGCTGCTATTCGTATCCAGCAGGTA		
12849	IS	[CT]		GTAAGATGTTCAGTATCATCCTTGTCCTCTACCTGCTGGATACGAATAGCAGCACACCCC[CT]TCCAAGTTGTGGCAACCAGAAATGTATCCAGACGTTGAC AGATGCCCCTACACTGCAAAC	ctg22fin6	22
12851	I		S	CATCCCTGGCTTTGCTCTCCACAAGAGACCT		
12851	P	G	S	ATGACGTGGCAGACCAGCCTGACTCTCCAAY		
12851	P	T	S	CGCGCCGAGGAAGCCTGACTCTCCAAGY		
12851	T	G	S	GAGACTTGGAGAGTCAGGCTGGGTCTCTTGTGGAGAGCAAAGCCAGGGATGCA		
12851	T	T	S	GAGACTTGGAGAGTCAGGCTTGGTCTCTTGTGGAGAGCAAAGCCAGGGATGCA		
12851	IS	[GT]		GCTGTGAGCCCTGTTGGGGAGCTTGCAGCAGGAGGAGACAGAGACTTGGAGAGTCAGGCT[GT]GGTCTCTTGTGGAGAGCAAAGCCAGGGATGCAGCTG AAGAAGTGGCGCCCCCTCTTCCCA	ctg22fin4	22
12854	I		A	CCAGCAACATTAACGCACATTCATCTTCCTGGCATTGC		
12854	P	T	A	CGCGCCGAGGTACGGCCTGTCAGTATTAY		
12854	P	G	A	ATGACGTGGCAGACGACGGCCTGTCAGTATY		
12854	T	T	A	GGTCTAATACTGACAGGCCGTACAATGCCAGGAAGATGAATGTGCGTTAATGTTGCTGGAA		
12854	T	G	A	GGTCTAATACTGACAGGCCGTCCAATGCCAGGAAGATGAATGTGCGTTAATGTTGCTGGAA		

FIGURE 129E



				AATGTTTGGATCAGTGCCATGTTCCAGCAACATTAACGCACATTCATCTTCCTGGCATTG[TG]ACGGCCTGTCAGTATTAGACCAAAAACAAATTACAAATCC			
12854	IS	[TG]		TAGGAATTCAAAATAACATT			
12860	I		S	TCCTCAGGGACCCCCAAGAGCTGCC			
12860	P	A	S	CGCGCCGAGGTGGAGGGCGGGAY			
12860	P	C	S	ATGACGTGGCAGACGGGAGGGCGGGAY			
12860	T	A	S	TGGTTCCCGCCCTCCAGCAGCTCTTGGGGGTCCCTGAGGAAG			
12860	T	C	S	TGGTTCCCGCCCTCCCGCAGCTCTTGGGGGTCCCTGAGGAAG			
				GGCAAGTCCTGCCTCCTCCCTTCTGCCTGGGGGTCCCCTTCTCCCTGGTTCCCGCCCTCC[AC]GCAGCTCTTGGGGGTCCCTGAGGAAGACCACCATGAC			
12860	IS	[AC]		CGTGATGTTGTCGTGGGAGCCCC	ctg16829	1	KIAA0015
12868	I		S	CCCAGAGCCTCAGCCCAAGCACACTC			
12868	P	A	S	CGCGCCGAGGTGGATTCTACCAGCCAGY			
12868	P	C	S	ATGACGTGGCAGACGGGATTCTACCAGCCAY			
12868	T	A	S	GAGGCTGGCTGGTAGAATCCAAGTGTGCTTGGGCTGAGGCTCTGGGGA			
12868	T	C	S	GAGGCTGGCTGGTAGAATCCCAGTGTGCTTGGGCTGAGGCTCTGGGGA			
				CTATGGAGCAGTGGGCTAAGATCTTACTAGGGCAAAGGTGGAGGCTGGCTGGTAGAATCC[AC]AGTGTGCTTGGGCTGAGGCTCTGGGGAGCTATCCAGG			
12868	IS	[AC]		CCAAAGTTTCACCTTGGAGACGG			
12875	I		S	CCCACACCCAGCCGCCCCGA			
12875	P	G	S	ATGACGTGGCAGACCTTGGACAGCAGCCY			
12875	P	A	S	CGCGCCGAGGTTTGGACAGCAGCCGY			
12875	T	G	S	CTACCGGCTGCTGTCCAAGCGGGGCGGCTGGGTGTGGGTG			
12875	T	A	S	CTACCGGCTGCTGTCCAAACGGGGCGGCTGGGTGTGGGTG			
				TGTGCTTGCAGTGTTGGTGAAGGGCCAGGTCACCACCAAGTACTACCGGCTGCTGTCCAA[GA]CGGGGCGGCTGGGTGTGGGTGCAGAGCTACGCCACC			
12875	IS	[GA]		GTGGTGCACAACAGCCGCTCGTCC	ctg16263	1	
12877	I		A	GGCACTTCCTTACATTCCCATGGGCAGGAT			
12877	P	A	A	CGCGCCGAGGATCTAGTCCCACGGCY			
12877	P	C	A	ATGACGTGGCAGACCTCTAGTCCCACGGCY			
12877	T	A	A	TGTGGCCGTGGGACTAGATTCCTGCCCATGGGAATGTAAGGAAGTGCCGT			
12877	T	C	A	TGTGGCCGTGGGACTAGAGTCCTGCCCATGGGAATGTAAGGAAGTGCCGT			
				ACACAGAGACATGAGTCCCATATCCAGAAACGGCACTTCCTTACATTCCCATGGGCAGGA[AC]TCTAGTCCCACGGCCACATCTCACTGCAAGAGAGGCCG			
12877	IS	[AC]		CAAGGTGCAGGCAGAAGGGAGG	ctg3454	17	
12879	I		S	GCCTCTAACTCTTGCAGAGATTGTCCAAAATCTTTAATGGTCAAATGT			
12879	P	C	S	ATGACGTGGCAGACGCCCAGGTCTGTTTCAY			
12879	P	T	S	CGCGCCGAGGACCCAGGTCTGTTTCAY			
12879	T	C	S	TGAGTGAAACAGACCTGGGCCATTTGACCATTAAAGATTTTGGACAATCTCTGCAAGAGTTAGAGGCAC			
12879	T	T	S	TGAGTGAAACAGACCTGGGTCATTTGACCATTAAAGATTTTGGACAATCTCTGCAAGAGTTAGAGGCAC			
				TAAATCCATATGCCCTTGAGTTTTTTCAATCCTTAGGAAAATGAGTGAAACAGACCTGGG[CT]CATTTGACCATTAAAGATTTTGGACAATCTCTGCAAGAGTT			
12879	IS	[CT]		AGAGGCACCATGTGCCCCA	ctg16892	8	
12885	I		S	CAGCTCCAGCTTCAGAGGTGGACCGAT			
12885	P	C	S	ATGACGTGGCAGACGCTTCCCAAATGACACTTY			
12885	P	T	S	CGCGCCGAGGACTTCCCAAATGACACTTTY			
12885	T	C	S	ATGGAAAGTGTCATTTGGGAAGCTCGGTCCACCTCTGAAGCTGGAGCTGCT			
12885	T	T	S	ATGGAAAGTGTCATTTGGGAAGTTCGGTCCACCTCTGAAGCTGGAGCTGCT			
				GCCACCACTTGTCAGTCTAGCCCACCTGTCTCGATCACATGGAAAGTGTCATTTGGGAAG[CT]TCGGTCCACCTCTGAAGCTGGAGCTGCTGTCAGTCAAT			
12885	IS	[CT]		GCTCAGAACCTCTTGGCAAAGC	ctg16892	8	
12886	I		S	CAGCAGGGTCCTCCCCAGGCCT			
12886	P	C	S	ATGACGTGGCAGACGCCCCTGGGTGCY			
12886	P	T	S	CGCGCCGAGGACCCCTGGGTGCY			
12886	T	C	S	CCCGGCACCCAGGGGCGGCCTGGGGAGGACCCTGCTGGA			
12886	T	T	S	CCCGGCACCCAGGGGTGGCCTGGGGAGGACCCTGCTGGA			
				TGCAGGGGGCAGGTCATAGTGGGCCTCAGGCCAAGGGGCTGCCCTCCCGGCACCCAGGGG[CT]GGCCTGGGGAGGACCCTGCTGGAGGCCAGACCCCA			
12886	IS	[CT]		TGCTGTATCCTCCACTGGAACGACC			
12897	I		A	GCAGAACCACTTCCGTTAGCTAAGCTGCCTCT			
12897	P	A	A	CGCGCCGAGGAGATGAAACCTAAACTACTCCY			
12897	P	G	A	ATGACGTGGCAGACGGATGAAACCTAAACTACTCCY			
12897	T	A	A	TCGGGGAGTAGTTTAGGTTTCATCTGAGGCAGCTTAGCTAACGGAAGTGGTTCTGCAG			
12897	T	G	A	TCGGGGAGTAGTTTAGGTTTCATCCGAGGCAGCTTAGCTAACGGAAGTGGTTCTGCAG			
				GCCTTTGAGATGACCCCACCTGCGTCCCTGCAGAACCACTTCCGTTAGCTAAGCTGCCTC[AG]GATGAAACCTAAACTACTCCCCGATGCTGGCAGAAGAA			
12897	IS	[AG]		TTTCATTGCAGTCAAAGCCCCT			
12909	I		A	GGCCTCTAGGCAGCCCGCCACT			
12909	P	A	A	CGCGCCGAGGAGCCCTACAACTCAAAGAY			
12909	P	G	A	ATGACGTGGCAGACGGCCCTACAACTCAAAGY			
12909	T	A	A	GTTTTCTTTGAGTTGTAGGGCTGTGGCGGGCTGCCTAGAGGCCCC			
12909	T	G	A	GTTTTCTTTGAGTTGTAGGGCCGTGGCGGGCTGCCTAGAGGCCCC			
				TTGGCGGAGAAGAAGGAGGGAGAATGAGCCCATGTCGGGGGCCTCTAGGCAGCCCGCCAC[AG]GCCCTACAACTCAAAGAAAACTCACCAGTCCCTGGTC			
12909	IS	[AG]		ACTCGGATGTCCTTGGAGGCGCT			
12913	I		A	CCCTGGCCCCACTGTCGGGCC			
12913	P	T	A	CGCGCCGAGGTCAGCTCAGCACGCY			
12913	P	A	A	ATGACGTGGCAGACACAGCTCAGCACGCY			
12913	T	T	A	GCCTGCGTGCTGAGCTGAGCCCGACAGTGGGGCCAGGGCT			
12913	T	A	A	GCCTGCGTGCTGAGCTGTGCCCGACAGTGGGGCCAGGGCT			
				GGACTTTTTGTCTCCTACCTCAGAGGCTCTCCCAAGCCAGCCCTGGCCCCACTGTCGGGC[TA]CAGCTCAGCACGCAGGCGCCGGGACCTTACCTGTCTG			
12913	IS	[TA]		GCTGCCGACAGTCAGGTTCTGCT	ctg16105	5	
12915	I		A	GGGGTTCACGCCATTCTCCTGCCTCAT			
12915	P	C	A	CGCGCCGAGGCCCTCCCAAGTAGCTGY			
12915	P	G	A	ATGACGTGGCAGACGCCTCCCAAGTAGCTY			
12915	T	C	A	ATCCCAGCTACTTGGGAGGGTGAGGCAGGAGAATGGCGTGAACCCCAG			
12915	T	G	A	ATCCCAGCTACTTGGGAGGCTGAGGCAGGAGAATGGCGTGAACCCCAG			
				GGCGTGATCTCAGCTCACTGCAACCCCCGACTCTGGGGTTCACGCCATTCTCCTGCCTCA[CG]CCTCCCAAGTAGCTGGGATTACAGGTGCCCGCCACCAT			
12915	IS	[CG]		GCCCAGCTAATTTTTTGTATTT	ctg16105	5	
12928	I		S	TCGGAAATGGCATAAAGCCTGTGGATATTCCT			
12928	P	T	S	CGCGCCGAGGAGTCAGCTTCAGAATCATAAAY			
12928	P	C	S	ATGACGTGGCAGACGGTCAGCTTCAGAATCATAAY			
12928	T	T	S	GTACTTTATGATTCTGAAGCTGACTGGAATATCCACAGGCTTTATGCCATTTCCGACA			
12928	T	C	S	GTACTTTATGATTCTGAAGCTGACCGGAATATCCACAGGCTTTATGCCATTTCCGACA			
				CGCATTTCCTACATTGCCAGTTTCTCTTAAGTATGAGTACTTTATGATTCTGAAGCTGAC[TC]GGAATATCCACAGGCTTTATGCCATTTCCGACATTTATAAG			
12928	IS	[TC]		GTTTTTCTCCACTGTGAGT	ctg14391	11	
12931	I		A	GGCTGGATGCCGAGGTAAAAGTTCTTTTTGCTCTAAAAGAAT			
12931	P	A	A	CGCGCCGAGGAAAGGAACTAGGTCAAAAATCTY			
12931	P	G	A	ATGACGTGGCAGACGAAGGAACTAGGTCAAAAATCTY			
12931	T	A	A	GGACAGATTTTTGACCTAGTTCCTTTTTCTTTTAGAGCAAAAAGAACTTTTACCTCGGCATCCAGCCCA			
12931	T	G	A	GGACAGATTTTTGACCTAGTTCCTTCTTCTTTTAGAGCAAAAAGAACTTTTACCTCGGCATCCAGCCCA			
				TGTCAGTCTTTAGGGGTTGGGCTGGATGCCGAGGTAAAAGTTCTTTTTGCTCTAAAAGAA[AG]AAGGAACTAGGTCAAAAATCTGTCCGTGACCTATCAGTT			
12931	IS	[AG]		ATTAATTTTTAAGGATGTTGC	ctg14391	11	TYMS
12964	I		A	CAGAAGGCCAGGTGAGAGTTGGGCCT			
12964	P	A	A	CGCGCCGAGGATGAGTCAGTAAACACACCY			
12964	P	G	A	ATGACGTGGCAGACGTGAGTCAGTAAACACACCY			
12964	T	A	A	TTGGGGTGTGTTTACTGACTCATGGCCCAACTCTCACCTGGCCTTCTGCT			
12964	T	G	A	TTGGGGTGTGTTTACTGACTCACGGCCCAACTCTCACCTGGCCTTCTGCT			

FIGURE 129E



				CCCAGCGCCTGGAGAGCATCCGGCTCAAACAGGAGCAGAAGGCCAGGTGAGAGTTGGGCC[AG]TGAGTCAGTAAACACACCCCAAACACTTGCACTGTAC			
12964	IS	[AG]		CCACAGGACACGTCACCATGCAT	ctg13446	1	
12966	I		S	GAGGAGTTTTAGCTGCTGCTCACGAAGTGCTTTTA			
12966	P	A	S	CGCGCCGAGGTGGGGAATGGAGGGAY			
12966	P	G	S	ATGACGTGGCAGACCGGGGAATGGAGGGY			
12966	T	A	S	GTCCTCCCTCCATTCCCCAAAAAGCACTTCGTGAGCAGCAGCTAAAACTCCTCTG			
12966	T	G	S	GTCCTCCCTCCATTCCCCGAAAAGCACTTCGTGAGCAGCAGCTAAAACTCCTCTG			
				TTGACAATTTCCCTCAAGCACTTCTCACAGTGTTCCAGGTGAGTCCTCCCTCCATTCCCC[AG]AAAAGCACTTCGTGAGCAGCAGCTAAAACTCCTCTGCCT			
12966	IS	[AG]		TCTTGTCTGCTCACACTCAGG			
12971	I		S	GCCTGGCCTCCGGGACTCCCAT			
12971	P	G	S	CGCGCCGAGGCGCTGACCGCCTY			
12971	P	C	S	ATGACGTGGCAGACGGCTGACCGCCTCY			
12971	T	G	S	GGCAGAGGCGGTCAGCGTGGGAGTCCCGGAGGCCAGGCTG			
12971	T	C	S	GGCAGAGGCGGTCAGCCTGGGAGTCCCGGAGGCCAGGCTG			
				ACATGGACACGGACGGAGGGGGCTGGACCGTGAGTGTGGGGCTGGGCAGAGGCGGTCAGC[GC]TGGGAGTCCCGGAGGCCAGGCTGCACACCTGGTTG			
12971	IS	[GC]		TAGAACACACTCTGGAATTCTCTAT	ctg12414	1	FCN2
12973	I		A	GGCCGCCCACCCGCTCCT			
12973	P	G	A	ATGACGTGGCAGACGGGTGCAGCGGCY			
12973	P	C	A	CGCGCCGAGGCGGTGCAGCGGCY			
12973	T	G	A	GGAGGCCGCTGCACCCGGAGCGGGTGGGCGGCCCG			
12973	T	C	A	GGAGGCCGCTGCACCGGGAGCGGGTGGGCGGCCCG			
				GGGGCTGAGGGGAGGGGCCGCGGAGCCGCGGCTAAGGAACGCGGGCCGCCCACCCGCTCC[GC]GGTGCAGCGGCCTCCGCGCCGGGTTTTGGCGCCT			
12973	IS	[GC]		CCCGCGGGCGCCCCCCTCCTCACGGC	ctg15907	6	
12977	I		A	TCCAGCCTGGGCAACAACAGTGAATCTCTATCTCGAAATAATAATAATAATT			
12977	P	C	A	ATGACGTGGCAGACCATCATCATCATAAATAAAATTGCCY			
12977	P	A	A	CGCGCCGAGGAATCATCATCATAAATAAAATTGCCY			
12977	T	C	A	AAATGGCAATTTTATTTATGATGATGATTATTATTATTATTTCGAGATAGAGATTCACTGTTGTTGCCCAGGCTGGAGT			
12977	T	A	A	AAATGGCAATTTTATTTATGATGATGATTATTATTATTATTTCGAGATAGAGATTCACTGTTGTTGCCCAGGCTGGAGT			
				CCATTGCACTCCAGCCTGGGCAACAACAGTGAATCTCTATCTCGAAATAATAATAATAAT[CA]ATCATCATCATAAATAAAATTGCCATTTGATGCCACTTGCC			
12977	IS	[CA]		CTGGGGCTGATTTTTACAA	ctg25114	1	
12979	I		S	CTGCTGACCCTGCCCTGGGCTCA			
12979	P	G	S	ATGACGTGGCAGACCGGTGATGCTGCCY			
12979	P	A	S	CGCGCCGAGGTGGTGATGCTGCCGY			
12979	T	G	S	AGGCCGGCAGCATCACCGGAGCCCAGGGCAGGGTCAGCAGAG			
12979	T	A	S	AGGCCGGCAGCATCACCAGAGCCCAGGGCAGGGTCAGCAGAG			
				CGAGGGAGGAGGAGAGGCCCCAGGTGAACGGAGGGGCTTGTCCAGGCCGGCAGCATCACC[GA]GAGCCCAGGGCAGGGTCAGCAGAGCTGGCCGTAGG			
12979	IS	[GA]		GCCCTCCTCTCAGCCAGGACCAAGG	ctg1565	1	
12981	I		S	CTGCACAGTCAGAGCCACCCCATAAGGAT			
12981	P	T	S	CGCGCCGAGGAGGTGTAGTCTTTCAATGTTCY			
12981	P	G	S	ATGACGTGGCAGACCGGTGTAGTCTTTCAATGTY			
12981	T	T	S	CCTAGAACATTGAAAGACTACACCTTCCTTATGGGGTGGCTCTGACTGTGCAGCC			
12981	T	G	S	CCTAGAACATTGAAAGACTACACCGTCCTTATGGGGTGGCTCTGACTGTGCAGCC			
				TCCTTGGTGCCCCTTCCTTTTGCCTATTCAGGTTGCCCTAGAACATTGAAAGACTACACC[TG]TCCTTATGGGGTGGCTCTGACTGTGCAGCCTGGTGGAG			
12981	IS	[TG]		GGAGAGGAAAAAGCACCTATCA	ctg14747	2	
12987	I		S	CTGCCCTCCTCCCCCGGCGT			
12987	P	G	S	ATGACGTGGCAGACCGGCCGCTCTACCY			
12987	P	T	S	CGCGCCGAGGAGGCCGCTCTACCTY			
12987	T	G	S	CTGCAGGTAGAGCGGCCGCGCCGGGGGAGGAGGGCAGCC			
12987	T	T	S	CTGCAGGTAGAGCGGCCTCGCCGGGGGAGGAGGGCAGCC			
				CGGGCCCCTGGACGGCGTCGCCAAGGAGCTGGGATCGCACTTGCTGCAGGTAGAGCGGCC[GT]CGCCGGGGGAGGAGGGCAGCCGCCGCAGGCTCCC			
12987	IS	[GT]		TTCCCACCCCGCCACCCCAGCCTCCA	ctg15907	6	
13014	I		A	CCACCACACTGAATCTCCCCTCCTCACAGTTC			
13014	P	T	A	CGCGCCGAGGTCCATGTAGACCCCTTGY			
13014	P	G	A	ATGACGTGGCAGACGCCATGTAGACCCCTTY			
13014	T	T	A	TCTTCAAGGGGTCTACATGGAAACTGTGAGGAGGGGAGATTCAGTGTGGTGGGG			
13014	T	G	A	TCTTCAAGGGGTCTACATGGCAACTGTGAGGAGGGGAGATTCAGTGTGGTGGGG			
				GCTGGGGAGTCCCTGCCACACTCAGTCCCCCACCACACTGAATCTCCCCTCCTCACAGTT[TG]CCATGTAGACCCCTTGAAGAGGGGAGGGGCCTAGGGA			
13014	IS	[TG]		GCCGCACCTTGTCATGTACCATC	ctg17036	17	GAPD
13017	I		S	AGTCTTTACTAGGATGGAGGCAGGGGATGCGT			
13017	P	T	S	CGCGCCGAGGAGGGCAGGTCCAGAY			
13017	P	C	S	ATGACGTGGCAGACGGGGCAGGTCCAGY			
13017	T	T	S	TTGCTCTGGACCTGCCCTCGCATCCCCTGCCTCCATCCTAGTAAAGACTCC			
13017	T	C	S	TTGCTCTGGACCTGCCCCCGCATCCCCTGCCTCCATCCTAGTAAAGACTCC			
				GATTCCAAGGAGTTCTGCTCATTCTAATGATGGCCCATTCTACTTGCTCTGGACCTGCCC[TC]CGCATCCCCTGCCTCCATCCTAGTAAAGACTCCTTGCTA			
13017	IS	[TC]		TGCTGCAGCTGTCTGTGTTAC	ctg17042	11	
13027	I		A	TGGAGGTGTTGTGGGGATGGTGATGGAGAT			
13027	P	G	A	ATGACGTGGCAGACGGGATGGAAATAACGGGY			
13027	P	A	A	CGCGCCGAGGAGGATGGAAATAACGGGTY			
13027	T	G	A	TGCCACCCGTTATTTCCATCCCTCTCCATCACCATCCCCACAACACCTCCAGA			
13027	T	A	A	TGCCACCCGTTATTTCCATCCTTCTCCATCACCATCCCCACAACACCTCCAGA			
				GAAGAACCAGGCATGGAAAGATGGGGAGCTCTGGAGGTGTTGTGGGGATGGTGATGGAGA[GA]GGATGGAAATAACGGGTGGCATTGGGTGGCAACATTT			
13027	IS	[GA]		GGGGAGAGATAATGAGGCAACTC	ctg15064	7	ATP1A2
13044	I		A	CCTTATCGATGCAAGATCAAGGCTCCTGGTTTTGCA			
13044	P	C	A	ATGACGTGGCAGACCCATCTGGTAAGAATCAATCCY			
13044	P	T	A	CGCGCCGAGGTCATCTGGTAAGAATCAATCCY			
13044	T	C	A	ACTGGGATTGATTCTTACCAGATGGGCAAAACCAGGAGCCTTGATCTTGCATCGATAAGGGC			
13044	T	T	A	ACTGGGATTGATTCTTACCAGATGAGCAAAACCAGGAGCCTTGATCTTGCATCGATAAGGGC			
				CCTGGTGTCTGATGGCAGCAGCCGCCCTTATCGATGCAAGATCAAGGCTCCTGGTTTTGC[CT]CATCTGGTAAGAATCAATCCCAGTAACTATAACTCCAAT			
13044	IS	[CT]		GAATTAAACCTGACCTTGGTT	ctg15071	9	
13053	I		S	AGATGCTTTACCGCCCTGCTCCCTGGA			
13053	P	G	S	ATGACGTGGCAGACCCCTGCCCCCAAGY			
13053	P	A	S	CGCGCCGAGGTCCTGCCCCCAAGY			
13053	T	G	S	AAAGCTTGGGGGCAGGGCCAGGGAGCAGGGCGGTAAAGCATCTGG			
13053	T	A	S	AAAGCTTGGGGGCAGGACCAGGGAGCAGGGCGGTAAAGCATCTGG			
				TCCTTATGGCTTCTTAGATGAGGGAGAACCACGTAGGGATGGAGAAAGCTTGGGGGCAGG[GA]CCAGGGAGCAGGGCGGTAAAGCATCTGGGGTACTGAC			
13053	IS	[GA]		ACATTGTGAATTAGCTACTGCTG	ctg17403	17	
13068	I		S	GCCCCGCCCCACCTGCCC			
13068	P	T	S	CGCGCCGAGGACACCACGCCCATTY			
13068	P	A	S	ATGACGTGGCAGACTCACCACGCCCATTY			
13068	T	T	S	GACCAATGGGCGTGGTGTGGCAGGTGGGGCGGGGCCA			
13068	T	A	S	GACCAATGGGCGTGGTGAGGCAGGTGGGGCGGGGCCA			
				ACCGAGCCTTAGAACCTAGGGCTGGGCTGGAGGCGGGGCTTGGGACCAATGGGCGTGGTG[TA]GGCAGGTGGGGCGGGGCCACGGCTGGGTGCAGAAG			
13068	IS	[TA]		CGGGTGGAGTTGGGTCTGGGCGAGC	ctg17207	19	
13103	I		S	GGGCTGCTATAACACTTAACTGGGCTCATGGTCTT			
13103	P	C	S	ATGACGTGGCAGACGTGCATGGCTAGTGTCY			
13103	P	T	S	CGCGCCGAGGATGCATGGCTAGTGTCTY			
13103	T	C	S	AAAAAGACACTAGCCATGCACAGACCATGAGCCCAGTTAAGTGTTATAGCAGCCCAC			
13103	T	T	S	AAAAAGACACTAGCCATGCATAGACCATGAGCCCAGTTAAGTGTTATAGCAGCCCAC			



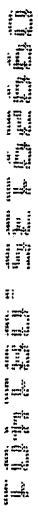
FIGURE 129E

				TAGGCTCCTCTAGGAGCTGACATTTGAGCTACACCTGAACAAAAAGACACTAGCCATGCA[CT]AGACCATGAGCCCAGTTAAGTGTTATAGCAGCCCACGAG			
13103 IS	[CT]			ATAAGAATTATTATTATTTCA	ctg17042	11	
13105 I		A	A	GCAGTAGAGTGTGTGATGGTGCTTCACAGGCTATAAT			
13105 P	A	A	A	CGCGCCGAGGAGTACTACACTGTGGTCTTY			
13105 P	G	A	A	ATGACGTGGCAGACGGTACTACACTGTGGTCTY			
13105 T	A	A	A	GGGCAAGACCACAGTGTAGTACTTTATAGCCTGTGAAGCACCATCACACACTCTACTGCCT			
13105 T	G	A	A	GGGCAAGACCACAGTGTAGTACCTTATAGCCTGTGAAGCACCATCACACACTCTACTGCCT			
				TGTGACGTCCAATGGAGATGAAAGGCAGTAGAGTGTGTGATGGTGCTTCACAGGCTATAA[AG]GTACTACACTGTGGTCTTGCCCATAAAACCCCTAGGGA			
13105 IS	[AG]			CTCATCTAGATCCAGAGGAAAC	ctg16400	17	
13106 I		S	S	CCCTCCCATGCCTGCACCCCCT			
13106 P	C	S	S	ATGACGTGGCAGACGAGGACCAATCACACTCAY			
13106 P	T	S	S	CGCGCCGAGGAAGGACCAATCACACTCAY			
13106 T	C	S	S	AGGGTGAGTGTGATTGGTCCTCGGGGGTGCAGGCATGGGAGGGCC			
13106 T	T	S	S	AGGGTGAGTGTGATTGGTCCTTGGGGGTGCAGGCATGGGAGGGCC			
				CCCAAGGGTGATCCTGGCCTCCCTGGAGCCCCTGGGGAAAGGGTGAGTGTGATTGGTCCT[CT]GGGGGTGCAGGCATGGGAGGGCCTGCTCTGATTTCT			
13106 IS	[CT]			TCCTCCCCTATCCTCAGGGCATTG	ctg16105	5	
13111 I		S	S	GGACCCTCTGTTCCTACATCTCAGCTTTCCCAT			
13111 P	T	S	S	CGCGCCGAGGAGGCAAAACTGTGGCY			
13111 P	C	S	S	ATGACGTGGCAGACGGGCAAAACTGTGGCY			
13111 T	T	S	S	CCAGGCCACAGTTTTGCCTTGGGAAAGCTGAGATGTAGGAACAGAGGGTCCAC			
13111 T	C	S	S	CCAGGCCACAGTTTTGCCCTGGGAAAGCTGAGATGTAGGAACAGAGGGTCCAC			
				GTGTGGAGAGGAGCGAAAAGGAAAGGCCCTGACCAGCTTTATCCAGGCCACAGTTTTGCC[TC]TGGGAAAGCTGAGATGTAGGAACAGAGGGTCCACCTG			
13111 IS	[TC]			GCTTCCAAGCCTGGCTTGGCCTC	ctg15907	6	
13114 I		S	S	ACCTCCGAGGTGTTGTTGCACTTCTGCTGT			
13114 P	C	S	S	ATGACGTGGCAGACGCAGAAGTAGATGCCATTY			
13114 P	T	S	S	CGCGCCGAGGACAGAAGTAGATGCCATTGY			
13114 T	C	S	S	AGGACAATGGCATCTACTTCTGCCAGCAGAAGTGCAACAACACCTCGGAGGTCT			
13114 T	T	S	S	AGGACAATGGCATCTACTTCTGTCAGCAGAAGTGCAACAACACCTCGGAGGTCT			
				ATCTCTCGCCACCCTCACCATCCAAGGCATCCGGTTTGAGGACAATGGCATCTACTTCTG[CT]CAGCAGAAGTGCAACAACACCTCGGAGGTCTACCAGGG			
13114 IS	[CT]			CTGCGGCACAGAGCTGCGAGTC	ctg22fin4	22	CD79B
13125 I		S	S	GGCTGTGCAGTAATACTCTCCCTCCTGTTCCTTGT			
13125 P	G	S	S	ATGACGTGGCAGACCTAGCCTTCTGCTTGGTY			
13125 P	T	S	S	CGCGCCGAGGATAGCCTTCTGCTTGGTY			
13125 T	G	S	S	TTGGACCAAGCAGAAGGCTAGCAAGGAACAGGAGGGAGAGTATTACTGCACAGCCTT			
13125 T	T	S	S	TTGGACCAAGCAGAAGGCTATCAAGGAACAGGAGGGAGAGTATTACTGCACAGCCTT			
				AACCCTTCTATCAAATGACCTCAAATGCCACCCAGGCATTTTGGACCAAGCAGAAGGCTA[GT]CAAGGAACAGGAGGGAGAGTATTACTGCACAGCCTTCAA			
13125 IS	[GT]			CAGAGCCAACCACGCCTCCAG	ctg19247	7	PECAM1
13129 I		A	A	TGTCAGACTCATTGAATAGCTCCCCAGTGCTCACT			
13129 P	G	A	A	ATGACGTGGCAGACGCTGGATGAGACTGAGAY			
13129 P	A	A	A	CGCGCCGAGGACTGGATGAGACTGAGAGY			
13129 T	G	A	A	ACAACTCTCAGTCTCATCCAGCGTGAGCACTGGGGAGCTATTCAATGAGTCTGACACG			
13129 T	A	A	A	ACAACTCTCAGTCTCATCCAGTGTGAGCACTGGGGAGCTATTCAATGAGTCTGACACG			
				TTGTTCTAAAACCTTGGGCTCTAACGTGTCAGACTCATTGAATAGCTCCCCAGTGCTCAC[GA]CTGGATGAGACTGAGAGTTGTAGGAGATGCTGAGACATG			
13129 IS	[GA]			GGAGGGAGAAAAGAGGCTGAG	ctg16114	X	
13130 I		A	A	GGCAGGAAGCCAAAAGTGGTGGCTTTCAAGA			
13130 P	C	A	A	ATGACGTGGCAGACCGTTAGTAAGCAAAAACTCACY			
13130 P	T	A	A	CGCGCCGAGGTGTTAGTAAGCAAAAACTCACY			
13130 T	C	A	A	CCAGGTGAGTTTTTGCTTACTAACGCTTGAAAGCCACCACTTTTGGCTTCCTGCCTC			
13130 T	T	A	A	CCAGGTGAGTTTTTGCTTACTAACACTTGAAAGCCACCACTTTTGGCTTCCTGCCTC			
				ACCTGAGCTGATGGCAGAACACTGGGATGAGGCAGGAAGCCAAAAGTGGTGGCTTTCAAG[CT]GTTAGTAAGCAAAAACTCACCTGGGTTACATACTCAGA			
13130 IS	[CT]			ATGCATGTTCTTGAGGTCACCC	ctg13206	14	
13139 I		S	S	CGAGAAGCCTTTCCTGACCACCCCTTCAAAT			
13139 P	T	S	S	CGCGCCGAGGATAGCCGGGACCTTGY			
13139 P	C	S	S	ATGACGTGGCAGACGTAGCCGGGACCTTY			
13139 T	T	S	S	ATCACAAGGTCCCGGCTATTTTGAAGGGGTGGTCAGGAAAGGCTTCTCGGA			
13139 T	C	S	S	ATCACAAGGTCCCGGCTACTTTGAAGGGGTGGTCAGGAAAGGCTTCTCGGA			
				CAAACAACTGAGCGAGGTACTTCCAAATATCTGAGGGTGGGGATCACAAGGTCCCGGCTA[TC]TTTGAAGGGGTGGTCAGGAAAGGCTTCTCGGAAGAGGT			
13139 IS	[TC]			GGCATTTGAGCTGAGACTCAAA	ctg15842	19	
13144 I		S	S	CATGATGGGTCATTTAGCGGCTTCCTGATCCCT			
13144 P	G	S	S	CGCGCCGAGGCGGGAACCAGGTCGY			
13144 P	C	S	S	ATGACGTGGCAGACGGGGAACCAGGTCGY			
13144 T	G	S	S	GAATCGACCTGGTTCCCGGGGATCAGGAAGCCGCTAAATGACCCATCATGGA			
13144 T	C	S	S	GAATCGACCTGGTTCCCCGGGATCAGGAAGCCGCTAAATGACCCATCATGGA			
				CCTGTGGCCAGGAGGTCGAAGCCGGCCTTCGAGAGTGGCTCGGGAATCGACCTGGTTCCC[GC]GGGATCAGGAAGCCGCTAAATGACCCATCATGGAGTT			
13144 IS	[GC]			GCCCTACCTCAGGACTGGTCCGT	ctg14007	17	
13152 I		A	A	GTCATTTGGGGACACGCCACTGGCACT			
13152 P	A	A	A	CGCGCCGAGGAGAGCATCCAGGCCY			
13152 P	G	A	A	ATGACGTGGCAGACGGAGCATCCAGGCCY			
13152 T	A	A	A	CATTGGCCTGGATGCTCTGTGCCAGTGGCGTGTCCCCAAATGACAC			
13152 T	G	A	A	CATTGGCCTGGATGCTCCGTGCCAGTGGCGTGTCCCCAAATGACAC			
				TGCCTGTGGGGCACTACTGCTTTGTGTTTGTCGTGTCATTTGGGGACACGCCACTGGCAC[AG]GAGCATCCAGGCCAATGTGACGGTGGCCCCCGAGCGC			
13152 IS	[AG]			CTGGTGCCCATCACTGAGGGTGG	ctg15422	X	PKD1
13168 I		A	A	GATGGCTGTGGGGTCAAGTACATCCCCAT			
13168 P	G	A	A	ATGACGTGGCAGACGTCGTGGCCCTCTGY			
13168 P	A	A	A	CGCGCCGAGGATCGTGGCCCTCTGY			
13168 T	G	A	A	TGTCCAGAGGGCCACGACTGGGGATGTACTTGACCCCACAGCCATCTG			
13168 T	A	A	A	TGTCCAGAGGGCCACGATTGGGGATGTACTTGACCCCACAGCCATCTG			
				AAGACATGGTGGCTGAAAAGCGGCTCATCCCAGATGGCTGTGGGGTCAAGTACATCCCCA[GA]TCGTGGCCCTCTGGACAAGTGGCGGGCCCTGCACTCA			
13168 IS	[GA]			TGAGGGCTTCCAATGTGCTGCCC	ctg19247	7	MULTIPLE SHORT GENE NAMES
13172 I		S	S	CCTGGTCTAGACCAGCCTCTTCCCTCCCA			
13172 P	G	S	S	ATGACGTGGCAGACCGGTCTACTGTGCGCY			
13172 P	A	S	S	CGCGCCGAGGTGGTCTACTGTGCGCY			
13172 T	G	S	S	CACCGCGCACAGTAGACCGGGGAGGGAAGAGGCTGGTCTAGACCAGGCT			
13172 T	A	S	S	CACCGCGCACAGTAGACCAGGGAGGGAAGAGGCTGGTCTAGACCAGGCT			
				TGATGCCCTGTCAAGATGGCTCCAAAAGCTGCCCTCTTGAGGCACCGCGCACAGTAGACC[GA]GGGAGGGAAGAGGCTGGTCTAGACCAGGCTGGCTGG			
13172 IS	[GA]			GCACATTTTCTGTGATGATGGAAA	ctg13010	2	
13179 I		S	S	ACATTAGAAAGTGGGGCCAGACGTGGTGGA			
13179 P	G	S	S	ATGACGTGGCAGACCTCACGCTTGTAACCCY			
13179 P	A	S	S	CGCGCCGAGGTTCACGCTTGTAACCCY			
13179 T	G	S	S	GTTGGGGTTACAAGCGTGAGCCACCACGTCTGGCCCCACTTTCTAATGTGC			
13179 T	A	S	S	GTTGGGGTTACAAGCGTGAACCACCACGTCTGGCCCCACTTTCTAATGTGC			
				TCCTAGCCTCAAGTGATCCTCCTGCCTTGGCCTCCCAAAGTGTTGGGGTTACAAGCGTGA[GA]CCACCACGTCTGGCCCCACTTTCTAATGTGCTGACCTG			
13179 IS	[GA]			GCCGTATCCTTCCCCTGCCTAA	ctg25191	18	
13180 I		A	A	TCTCCTGTCTGCCCATGTCTGTCTGTTGCTC			
13180 P	A	A	A	CGCGCCGAGGAGCTGTGAGTCTGCCY			
13180 P	T	A	A	ATGACGTGGCAGACTGCTGTGAGTCTGCCY			
13180 T	A	A	A	GACAGGCAGACTCACAGCTAGCAACAGACAGACATGGGCAGACAGGAGACG			
13180 T	T	A	A	GACAGGCAGACTCACAGCAAGCAACAGACAGACATGGGCAGACAGGAGACG			



				GCGAGTGTGAGGGTGTGGGCTGCCCGCCCGTCTCCTGTCTGCCCATGTCTGTCTGTTGCT[AT]GCTGTGAGTCTGCCTGTCTGCATCTCCCTGTTGGTGG			
13180	IS	[AT]		GTGCCCGTATCTGTTGGTCTGTC	ctg3454	17	
13188	I		A	GGTGCTGGAAACATTGACTCTTCAGAGTTCAGGACAT			
13188	P	G	A	ATGACGTGGCAGACGAAGGTTCTGGCTCGY			
13188	P	C	A	CGCGCCGAGGCAAGGTTCTGGCTCGY			
13188	T	G	A	ACTGCGAGCCAGAACCTTCTGTCCTGAACTCTGAAGAGTCAATGTTTCCAGCACCCC			
13188	T	C	A	ACTGCGAGCCAGAACCTTGTGTCCTGAACTCTGAAGAGTCAATGTTTCCAGCACCCC			
				CTCTGAGCAATCAGTGTGGTTGGGGGTGCTGGAAACATTGACTCTTCAGAGTTCAGGACA[GC]AAGGTTCTGGCTCGCAGTCTCAATATTCCTGGGTTGTA			
13188	IS	[GC]		TGTGCACGTGGGACCTTCCTGG	ctg17403	17	
13189	I		A	GCAACTATGATGCCTCCTATATCACCAGCTCCCAA			
13189	P	T	A	CGCGCCGAGGTACAGAGTGATGACGATTGY			
13189	P	C	A	ATGACGTGGCAGACCACAGAGTGATGACGATTGY			
13189	T	T	A	GATCCAATCGTCATCACTCTGTATGGGAGCTGGTGATATAGGAGGCATCATAGTTGCAA			
13189	T	C	A	GATCCAATCGTCATCACTCTGTGTGGGAGCTGGTGATATAGGAGGCATCATAGTTGCAA			
				CTGACTTTCAGGACTCTGATCTCATTGCAACTATGATGCCTCCTATATCACCAGCTCCCA[TC]ACAGAGTGATGACGATTGGATCCCTGATATCCAGATAGAC			
13189	IS	[TC]		CCAAATGGCCTTTCATTTAA	ctg17036	17	
13192	I		S	TGTTTGGAAAGACTGCTATTCTGCTTTTCACTGTGCTTTTCATTTT			
13192	P	G	S	CGCGCCGAGGCTGTGTATGTGAGTTTGTGTY			
13192	P	C	S	ATGACGTGGCAGACGTGTGTATGTGAGTTTGTGTY			
13192	T	G	S	ACCCACACAAACTCACATACACAGAAATGAAAAGCACAGTGAAAAGCAGAATAGCAGTCTTTCCAAACAGA			
13192	T	C	S	ACCCACACAAACTCACATACACACAAATGAAAAGCACAGTGAAAAGCAGAATAGCAGTCTTTCCAAACAGA			
				ACTGTTAGCTGTAGGATCAGGGTCCACCCCCCGACACACCCACACAAACTCACATACACA[GC]AAATGAAAAGCACAGTGAAAAGCAGAATAGCAGTCTTTC			
13192	IS	[GC]		CAAACAGATTGAAAACCAAAA	ctg13740	5	
13198	I		A	CGGGCGGATTGGTAAGTGCCCCCT			
13198	P	C	A	CGCGCCGAGGCTCTAGCTAATGCTTGGGY			
13198	P	G	A	ATGACGTGGCAGACGTCTAGCTAATGCTTGGGY			
13198	T	C	A	TAAACCCAAGCATTAGCTAGAGGGGGGCACTTACCAATCCGCCCGAT			
13198	T	G	A	TAAACCCAAGCATTAGCTAGACGGGGGCACTTACCAATCCGCCCGAT			
				CGGCCCTCAGAGCCCTTGCCCGCTCGGGTATGAAGATCGGGCGGATTGGTAAGTGCCCCC[CG]TCTAGCTAATGCTTGGGTTTATTTTGAAGCATTGGCCC			
13198	IS	[CG]		CAAAAAGCACGTGCTGTGCCCA	ctg632	11	
13199	I		A	GATCTGTCCAAAGGATCCTCCCACCTGCATCTACA			
13199	P	T	A	CGCGCCGAGGTGAGTAGCTGGGACAACY			
13199	P	C	A	ATGACGTGGCAGACCGAGTAGCTGGGACAAY			
13199	T	T	A	CACTGTTGTCCCAGCTACTCAGTAGATGCAGGTGGGAGGATCCTTTGGACAGATCCG			
13199	T	C	A	CACTGTTGTCCCAGCTACTCGGTAGATGCAGGTGGGAGGATCCTTTGGACAGATCCG			
				TCACTGTAAATTTCGCCTCGTGGGCGGATCTGTCCAAAGGATCCTCCCACCTGCATCTAC[TC]GAGTAGCTGGGACAACAGTGTGTGCCACACCGGGCTTT			
13199	IS	[TC]		TTTTTTTTGTAGCGGGGAGTTT	ctg832	11	
13200	I		S	TCTAGCCCACCGTCTTCTCTAGAGGAAAAAACCCTTA			
13200	P	A	S	CGCGCCGAGGTTAGACAGGGTAACTGCAY			
13200	P	G	S	ATGACGTGGCAGACCTAGACAGGGTAACTGCAY			
13200	T	A	S	CAGTTGCAGTTACCCTGTCTAAAAGGGTTTTTTCCTCTAGAGAAGACGGTGGGCTAGATG			
13200	T	G	S	CAGTTGCAGTTACCCTGTCTAGAAGGGTTTTTTCCTCTAGAGAAGACGGTGGGCTAGATG			
				GACTTTTTTTCAGTGTCTTTTTACTTAATGAAAACGAGACAGTTGCAGTTACCCTGTCTA[AG]AAGGGTTTTTTCCTCTAGAGAAGACGGTGGGCTAGATGTC			
13200	IS	[AG]		AGAACCTGGATTTGTCCTGT	ctg22fin4	22	
13227	I		A	CAGCTTCATCCTGAAGACCAGCCAGTGCAA			
13227	P	C	A	ATGACGTGGCAGACCCCTGAAAGAGGTGTATGY			
13227	P	T	A	CGCGCCGAGGTCCTGAAAGAGGTGTATGGY			
13227	T	C	A	GAAGCCATACACCTCTTTCAGGGTGCACTGGCTGGTCTTCAGGATGAAGCTGCA			
13227	T	T	A	GAAGCCATACACCTCTTTCAGGATGCACTGGCTGGTCTTCAGGATGAAGCTGCA			
				CTCAGGTTGAGCTGGAGGTTCCCCAGCTCTGCAGCTTCATCCTGAAGACCAGCCAGTGCA[CT]CCTGAAAGAGGTGTATGGCTTCAACCCTGAGGGCAAAG			
13227	IS	[CT]		CCTTGCTGAAGAAAACCAAGAA	ctg22fin3	22	
13237	I		S	CCCGTGGCTCACGCTGTTCCCTA			
13237	P	G	S	ATGACGTGGCAGACCCTGTTAGCTTTCAGGTCY			
13237	P	A	S	CGCGCCGAGGTCTGTTAGCTTTCAGGTCY			
13237	T	G	S	GGAGGACCTGAAAGCTAACAGGAGGGAACAGCGTGAGCCACGGGGT			
13237	T	A	S	GGAGGACCTGAAAGCTAACAGAAGGGAACAGCGTGAGCCACGGGGT			
				GGATGAGAGCCCAGGAGGGAGAAGTCCCTGTGAAACCAGGGAGGACCTGAAAGCTAACAG[GA]AGGGAACAGCGTGAGCCACGGGGTTGGGGGATTGGC			
13237	IS	[GA]		AATTGGAGGGGACGTAATGCGGGG	ctg17140	16	
13239	I		A	GAAGACCCAGACAGGACTGCAGAGGGCA			
13239	P	T	A	CGCGCCGAGGTCCAGAGTGGAGATCCY			
13239	P	C	A	ATGACGTGGCAGACCCCAGAGTGGAGATCCY			
13239	T	T	A	TGTGGGATCTCCACTCTGGAGCCCTCTGCAGTCCTGTCTGGGTCTTCAC			
13239	T	C	A	TGTGGGATCTCCACTCTGGGGCCCTCTGCAGTCCTGTCTGGGTCTTCAC			
				ACGCAAAAATAGCTCTTGCTTTGACTTAGGTGTGAAGACCCAGACAGGACTGCAGAGGGC[TC]CCAGAGTGGAGATCCCACATATTTCAAAAACATGCTTTT			
13239	IS	[TC]		CCAAACCCAGGCTATTCGGCA	ctg17140	16	F13A1
13241	I		S	GGCTGTCCTGAATCAGGTGCCCGATCCT			
13241	P	T	S	CGCGCCGAGGAGTCCAGCAGGCAGY			
13241	P	C	S	ATGACGTGGCAGACGGTCCAGCAGGCAY			
13241	T	T	S	GAGGCTGCCTGCTGGACTGGATCGGGCACCTGATTCAGGACAGCCTG			
13241	T	C	S	GAGGCTGCCTGCTGGACCGGATCGGGCACCTGATTCAGGACAGCCTG			
				AGCAGTACAACTCTTCCCGAGGTGACAAGTGTGGGGCCTTCCTGAGGCTGCCTGCTGGAC[TC]GGATCGGGCACCTGATTCAGGACAGCCTGGATGTAGG			
13241	IS	[TC]		CGAGGGGCCAGCCAGGCCAGACC	MULTIPLE	MULTIPLE	
13262	I		A	GAAAAATGGAGTTCACCTAGCTCCTGAGAGAAGGGATTTTTTTTTTTTC			
13262	P	T	A	CGCGCCGAGGTTAAAAGAAAGAGTTATATATACCACCY			
13262	P	A	A	ATGACGTGGCAGACATAAAAGAAAGAGTTATATATACCACCY			
13262	T	T	A	GCTGGGTGGTATATATAACTCTTTCTTTTAAAAAAAAAAAAATCCCTTCTCTCAGGAGCTAGGTGAACTCCATTTTTCCC			
13262	T	A	A	GCTGGGTGGTATATATAACTCTTTCTTTTATAAAAAAAAAAAATCCCTTCTCTCAGGAGCTAGGTGAACTCCATTTTTCCC			
				TTAGCCCAGAGGGAAAAATGGAGTTCACCTAGCTCCTGAGAGAAGGGATTTTTTTTTTTT[TA]TAAAAGAAAGAGTTATATATACCACCCAGCTTCTTTGTGCT			
13262	IS	[TA]		TGTTTTTGCTAAAAGTGTG	ctg15907	6	
13263	I		S	CTGGAGAGTCACTCTTCCCCACTGTTGGGAC			
13263	P	C	S	ATGACGTGGCAGACGGCAGCCTCCAGGY			
13263	P	A	S	CGCGCCGAGGTGCAGCCTCCAGGY			
13263	T	C	S	GGCCCCTGGAGGCTGCCTCCCAACAGTGGGGAAGAGTGACTCTCCAGGG			
13263	T	A	S	GGCCCCTGGAGGCTGCATCCCAACAGTGGGGAAGAGTGACTCTCCAGGG			
				GTGCTTGATACAGGAACAACATTTACAACTCATTCCAGATCCCAGGCCCCTGGAGGCTGC[CA]TCCCAACAGTGGGGAAGAGTGACTCTCCAGGGGTCCTA			
13263	IS	[CA]		GGCCTCAACTCCTCCCATAGAT	ctg2712	15	PIM1
13265	I		A	GTTCCCTTGTGGACCGGCACAAGGAGAT			
13265	P	A	A	CGCGCCGAGGACCTGAAGTCCAAGACTCY			
13265	P	C	A	ATGACGTGGCAGACCCCTGAAGTCCAAGACTY			
13265	T	A	A	CACTGAGTCTTGGACTTCAGGTTCTCCTTGTGCCGGTCCACAAGGGAACCA			
13265	T	C	A	CACTGAGTCTTGGACTTCAGGGTCTCCTTGTGCCGGTCCACAAGGGAACCA			
				AGGAAGCCAAGCAGAAAACGGTGGAGTGGGTTGGTTCCCTTGTGGACCGGCACAAGGAGA[AC]CCTGAAGTCCAAGACTCAGTGATTTAAGGATGACAGA			
13265	IS	[AC]		GATGTGCATGTGGGTATTGTTAG	ctg19085	10	MULTIPLE SHORT GENE NAMES
13273	I		A	TGCTGCCCTTTGAAGCCATGCCCCT			
13273	P	G	A	ATGACGTGGCAGACGGCGTCCAGGCAAY			
13273	P	A	A	CGCGCCGAGGAGCGTCCAGGCAAY			
13273	T	G	A	CCTGTTGCCTGGACGCCGGGGCATGGCTTCAAAGGGCAGCACT			
13273	T	A	A	CCTGTTGCCTGGACGCTGGGGCATGGCTTCAAAGGGCAGCACT			

FIGURE 129E



13273	IS	[GA]		CACTGGGCACGAGAGCCGCCCGGGTCCCCAGGACAGTGCTGCCCTTTGAAGCCATGCCCC[GA]GCGTCCAGGCAACAGGTGGCTGAGGCTGCTGCAGAT CTGGAGGGAGCAGGGTTATGAGGA	ctg53	14	CYP11B1
13276	I		S	GCACTGTGCAGCTGTGCTCAGCGAGT			
13276	P	T	S	CGCGCCGAGGAAGTTCCCTGACCACAY			
13276	P	G	S	ATGACGTGGCAGACCAGTTCCCTGACCACAY			
13276	T	T	S	ACTCTGTGGTCAGGGAACTTCTCGCTGAGCACAGCTGCACAGTGCTG			
13276	T	G	S	ACTCTGTGGTCAGGGAACTGCTCGCTGAGCACAGCTGCACAGTGCTG			
13276	IS	[TG]		AGGGGCCAAAGCATGGGGGAAGGCGTGGCAGGAAGAGGGGGACTCTGTGGTCAGGGAACT[TG]CTCGCTGAGCACAGCTGCACAGTGCTGTCAGAACGG CCGATCTCCAGCCCAAGATGATTC	ctg12325	11	
13282	I		A	CGGTGCTGAAGGATGAGGCCGTCTGGT			
13282	P	G	A	ATGACGTGGCAGACGAGAAGCCCTTCCGCY			
13282	P	A	A	CGCGCCGAGGAAGAAGCCCTTCCGCY			
13282	T	G	A	GGAAGCGGAAGGGCTTCTCCCAGACGGCCTCATCCTTCAGCACCGAT			
13282	T	A	A	GGAAGCGGAAGGGCTTCTTCCAGACGGCCTCATCCTTCAGCACCGAT			
13282	IS	[GA]		GCCCAGGGAACGACACTCATCACCAACCTGTCATCGGTGCTGAAGGATGAGGCCGTCTGG[GA]AGAAGCCCTTCCGCTTCCACCCCGAACACTTCCTGGAT GCCCAGGGCCACTTTGTGAAGC	ctg13980	1	
13286	I		S	GGGAAGAAGGAAGCCCCAGGATTCATCT			
13286	P	G	S	CGCGCCGAGGCCGGCTGTCCAGACY			
13286	P	C	S	ATGACGTGGCAGACGCGGCTGTCCAGAY			
13286	T	G	S	GAGGGTCTGGACAGCCGGGATGAATCCTGGGGCTTCCTTCTTCCCTT			
13286	T	C	S	GAGGGTCTGGACAGCCGCGATGAATCCTGGGGCTTCCTTCTTCCCTT			
13286	IS	[GC]		ACCCCTCCCGTGCACCTTGGTTTGGGCTGGGTGAGGGTGGGGAGAGGGTCTGGACAGCCG[GC]GATGAATCCTGGGGCTTCCTTCTTCCCTTTTAAACTG GAGGGTCTTGGAAGAGAGAGACA	ctg14391	11	
13292	I		S	GTGAGGGCCTGGGTTGAAGGCACGA			
13292	P	A	S	CGCGCCGAGGTAGGCCTTCTCCTTGGY			
13292	P	G	S	ATGACGTGGCAGACCAGGCCTTCTCCTTGGY			
13292	T	A	S	GGGACCAAGGAGAAGGCCTACGTGCCTTCAACCCAGGCCCTCACAG			
13292	T	G	S	GGGACCAAGGAGAAGGCCTGCGTGCCTTCAACCCAGGCCCTCACAG			
13292	IS	[AG]		TCAGCTGAGAGTGCGGGGTTAGTAGCCCCAGGGAAGTGGTGGGGACCAAGGAGAAGGCCT[AG]CGTGCCTTCAACCCAGGCCCTCACAGGGACAGTGAT TCTGGTGTTTGAGGATGCAGAAGG	ctg15907	6	
13306	I		S	CCTGGAGCCATCTCCTGATTGTTCGTCATTACGC			
13306	P	T	S	CGCGCCGAGGAGTTTGTCTGCTGGCAY			
13306	P	A	S	ATGACGTGGCAGACTGTTTGTCTGCTGGCY			
13306	T	T	S	GAAGTGCCAGCAGACAAACTCGTAATGACGAACAATCAGGAGATGGCTCCAGGCA			
13306	T	A	S	GAAGTGCCAGCAGACAAACACGTAATGACGAACAATCAGGAGATGGCTCCAGGCA			
13306	IS	[TA]		CCAGGGAAGGTCTGATGCCTCCCGTGGGCAGTCAGGATCCAGAAGTGCCAGCAGACAAAC[TA]CGTAATGACGAACAATCAGGAGATGGCTCCAGGCACT CATGGTCGCATCACCATGAAGCT	ctg15140	12	
13308	I		A	GGATCCAGAAGTGCCAGCAGACAAACTCGTT			
13308	P	A	A	CGCGCCGAGGAATGACGAACAATCAGGAGY			
13308	P	G	A	ATGACGTGGCAGACGATGACGAACAATCAGGAGY			
13308	T	A	A	CCATCTCCTGATTGTTCGTCATTACGAGTTTGTCTGCTGGCACTTCTGGATCCTG			
13308	T	G	A	CCATCTCCTGATTGTTCGTCATCACGAGTTTGTCTGCTGGCACTTCTGGATCCTG			
13308	IS	[AG]		GGAAGGTCTGATGCCTCCCGTGGGCAGTCAGGATCCAGAAGTGCCAGCAGACAAACTCGT[AG]ATGACGAACAATCAGGAGATGGCTCCAGGCACTCATG GTCGCATCACCATGAAGCTTCCA	ctg15330	9	
13316	I		A	GGCTCCAGGCACTCATGGTCGCATCAA			
13316	P	C	A	ATGACGTGGCAGACCCATGAAGCTTCCACTCY			
13316	P	T	A	CGCGCCGAGGTCATGAAGCTTCCACTCAY			
13316	T	C	A	CGCCTGAGTGGAAGCTTCATGGTGATGCGACCATGAGTGCCTGGAGCCAT			
13316	T	T	A	CGCCTGAGTGGAAGCTTCATGATGATGCGACCATGAGTGCCTGGAGCCAT			
13316	IS	[CT]		CAGACAAACTCGTAATGACGAACAATCAGGAGATGGCTCCAGGCACTCATGGTCGCATCA[CT]CATGAAGCTTCCACTCAGGCGGACAGCTCTAGACACTC ACAGTCCGGCCAGGGACAATCA	ctg30	7	
13319	I		S	CCCGCTGATTGTCCCTGGCCGGT			
13319	P	T	S	CGCGCCGAGGACTGTGAGTGTCTAGAGCY			
13319	P	G	S	ATGACGTGGCAGACCCTGTGAGTGTCTAGAGCY			
13319	T	T	S	GACAGCTCTAGACACTCACAGTCCGGCCAGGGACAATCAGCGGGGC			
13319	T	G	S	GACAGCTCTAGACACTCACAGGCCGGCCAGGGACAATCAGCGGGGC			
13319	IS	[TG]		CACTCATGGTCGCATCACCATGAAGCTTCCACTCAGGCGGACAGCTCTAGACACTCACAG[TG]CCGGCCAGGGACAATCAGCGGGGCCCAGGACAAGCAG GAACCAGGGATCCAGTGTTAGCC	ctg15478	1	
13321	I		A	CGGCCAGGGACAATCAGCGGGGA			
13321	P	T	A	CGCGCCGAGGTCCAGGACAAGCAGGY			
13321	P	C	A	ATGACGTGGCAGACCCCAGGACAAGCAGGY			
13321	T	T	A	GGTTCCTGCTTGTCCTGGACCCCGCTGATTGTCCCTGGCCGGA			
13321	T	C	A	GGTTCCTGCTTGTCCTGGGCCCCGCTGATTGTCCCTGGCCGGA			
13321	IS	[TC]		GCTTCCACTCAGGCGGACAGCTCTAGACACTCACAGTCCGGCCAGGGACAATCAGCGGGG[TC]CCAGGACAAGCAGGAACCAGGGATCCAGTGTTAGCCA GGACAGTGACAGTCAGGGACACT	ctg15907	6	
13322	I		S	ACTGTCCTGGCTAACACTGGATCCCTGGTC			
13322	P	C	S	ATGACGTGGCAGACGCCTGCTTGTCCTGY			
13322	P	A	S	CGCGCCGAGGTCCTGCTTGTCCTGGY			
13322	T	C	S	GGGCCCAGGACAAGCAGGCACCAGGGATCCAGTGTTAGCCAGGACAGTGA			
13322	T	A	S	GGGCCCAGGACAAGCAGGAACCAGGGATCCAGTGTTAGCCAGGACAGTGA			
13322	IS	[CA]		GACAGCTCTAGACACTCACAGTCCGGCCAGGGACAATCAGCGGGGCCCAGGACAAGCAGG[CA]ACCAGGGATCCAGTGTTAGCCAGGACAGTGACAGTCA GGGACACTCAGAAGACTCTGAGA	ctg12823	16	
13323	I		S	TCACTGTCCTGGCTAACACTGGATCCCTGGA			
13323	P	G	S	ATGACGTGGCAGACCTCCTGCTTGTCCTGGY			
13323	P	A	S	CGCGCCGAGGTTCCTGCTTGTCCTGGY			
13323	T	G	S	GGGCCCAGGACAAGCAGGAGCCAGGGATCCAGTGTTAGCCAGGACAGTGACA			
13323	T	A	S	GGGCCCAGGACAAGCAGGAACCAGGGATCCAGTGTTAGCCAGGACAGTGACA			
13323	IS	[GA]		ACAGCTCTAGACACTCACAGTCCGGCCAGGGACAATCAGCGGGGCCCAGGACAAGCAGGA[GA]CCAGGGATCCAGTGTTAGCCAGGACAGTGACAGTCAG GGACACTCAGAAGACTCTGAGAG	ctg15907	6	
13326	I		A	CCGGTCACGGGCACTCTGCAGAT			
13326	P	G	A	ATGACGTGGCAGACGAGCTCCAGACAATCAGY			
13326	P	C	A	CGCGCCGAGGCAGCTCCAGACAATCAGY			
13326	T	G	A	GTGCCTGATTGTCTGGAGCTCTCTGCAGAGTGCCCGTGACCGGCT			
13326	T	C	A	GTGCCTGATTGTCTGGAGCTGTCTGCAGAGTGCCCGTGACCGGCT			
13326	IS	[GC]		TGGCTCCAGACACCCCACGTCCGATCACGAAGACAGAGCCGGTCACGGGCACTCTGCAGA[GC]AGCTCCAGACAATCAGGCACTCATCATGCAGAGAATTC CTCTGGTGGACAGGCTGCATCA	ctg22fin4	22	
13329	I		S	GTCCCTGAGATGTGCACTCAAGTTGAGTTGATCCATT			
13329	P	C	S	ATGACGTGGCAGACGTAATTCAAATCCCTCCTCAY			
13329	P	T	S	CGCGCCGAGGATAATTCAAATCCCTCCTCACY			
13329	T	C	S	AGCTGTGAGGAGGGATTTGAATTACATGGATCAACTCAACTTGAGTGCACATCTCAGGGACAA			
13329	T	T	S	AGCTGTGAGGAGGGATTTGAATTATATGGATCAACTCAACTTGAGTGCACATCTCAGGGACAA			
13329	IS	[CT]		ATTGGAGAATTCACCTACAAGTCCTCTTGTGCCTTCAGCTGTGAGGAGGGATTTGAATTA[CT]ATGGATCAACTCAACTTGAGTGCACATCTCAGGGACAAT GGACAGAAGAGGTTCCTTCCT	ctg22fin4	22	SELE
13358	I		S	ACACCCCTGGGCCGGGGCA			
13358	P	A	S	CGCGCCGAGGTATAAGCAGGGCCACCY			
13358	P	G	S	ATGACGTGGCAGACCATAAGCAGGGCCACY			
13358	T	A	S	CCCTGGTGGCCCTGCTTATAGCCCCGGCCCAGGGGTGTCT			
13358	T	G	S	CCCTGGTGGCCCTGCTTATGGCCCCGGCCCAGGGGTGTCT			

FIGURE 129E

				ATTTTTGGAGGGAAGCACTCTCCTGCCCCAGCCTGGAGTGACCCTGGTGGCCCTGCTTAT[AG]GCCCCGGCCCAGGGGTGTCTGGCAGGAAGGGGTCTC			
13358	IS	[AG]		CAGACCGTCTGCTCCAGGGTCCCC	ctg22fin4	22	
13377	I		A	CCTCCCCTCAGAGCCAGGCTTAGTCCT			
13377	P	A	A	CGCGCCGAGGAGTGTGCTGCCCAGY			
13377	P	G	A	ATGACGTGGCAGACGGTGTGCTGCCCAY			
13377	T	A	A	CAGGCTGGGCAGCACACTGGACTAAGCCTGGCTCTGAGGGGAGGGC			
13377	T	G	A	CAGGCTGGGCAGCACACCGGACTAAGCCTGGCTCTGAGGGGAGGGC			
				CCCCCGGCCTTCTCCCCCGTCATGGAGGCCTGGCCCTCCCCTCAGAGCCAGGCTTAGTCC[AG]GTGTGCTGCCCAGCCTGTCACTGGCCTGGCCAAGGA			
13377	IS	[AG]		GGAGAGACAGGCCAGGGATTCTGG			
13379	I		A	TGGTGGCTCCTGGGGTGAGGTCTGT			
13379	P	G	A	ATGACGTGGCAGACGAGCTCTCTAATGGTCAGGY			
13379	P	A	A	CGCGCCGAGGAAGCTCTCTAATGGTCAGGY			
13379	T	G	A	ACCTCCTGACCATTAGAGAGCTCCAGACCTCACCCCAGGAGCCACCAGG			
13379	T	A	A	ACCTCCTGACCATTAGAGAGCTTCAGACCTCACCCCAGGAGCCACCAGG			
				CTCACCTGCCACAGTCCCTCTCCTTTCCCTCCTCCCTGGTGGCTCCTGGGGTGAGGTCTG[GA]AGCTCTCTAATGGTCAGGAGGTGGGAGTGGAGGCTGG			
13379	IS	[GA]		GCTGTTTCTGACGATGCTGGTTT	ctg15665	20	
13399	I		S	GTACCAGGAGAACTCTGGGCAAAAGTCCCAGA			
13399	P	G	S	ATGACGTGGCAGACCCTCTGAGGTAAGGATGAAY			
13399	P	A	S	CGCGCCGAGGTCTCTGAGGTAAGGATGAAAY			
13399	T	G	S	GCCCTTTCATCCTTACCTCAGAGGCTGGGACTTTTGCCCAGAGTTCTCCTGGTACGT			
13399	T	A	S	GCCCTTTCATCCTTACCTCAGAGACTGGGACTTTTGCCCAGAGTTCTCCTGGTACGT			
				CGTGTGGAGTTGGCGGGAAGATAGGAACAAACACAAAGCCCTTTCATCCTTACCTCAGAG[GA]CTGGGACTTTTGCCCAGAGTTCTCCTGGTACGTCCTTT			
13399	IS	[GA]		CTGCTTCTGCCTCAATAGTTTT	ctg15907	6	
13425	I		A	CCACCAAGAACCCTGGGAGGACAGAGTGT			
13425	P	G	A	ATGACGTGGCAGACGGTAATGATCCCAGACTTCY			
13425	P	C	A	CGCGCCGAGGCGTAATGATCCCAGACTTCY			
13425	T	G	A	AGAAGAAGTCTGGGATCATTACCCACTCTGTCCTCCCAGGGTTCTTGGTGGGC			
13425	T	C	A	AGAAGAAGTCTGGGATCATTACGCACTCTGTCCTCCCAGGGTTCTTGGTGGGC			
				TACCCACTGAGACACTGCATGGATATGGAAGCCCACCAAGAACCCTGGGAGGACAGAGTG[GC]GTAATGATCCCAGACTTCTTCTTGTTTAGATGATGAAG			
13425	IS	[GC]		GACACAAATAGGGAATCACGGT	ctg15064	7	
13435	I		S	CCATCCCCGAAGGTCCAGTCGAAGAGGTAGA			
13435	P	A	S	CGCGCCGAGGTGGGCCGGGTTCY			
13435	P	G	S	ATGACGTGGCAGACCGGGCCGGGTTCY			
13435	T	A	S	CCGGGAACCCGGCCCACTACCTCTTCGACTGGACCTTCGGGGATGGCT			
13435	T	G	S	CCGGGAACCCGGCCCGCTACCTCTTCGACTGGACCTTCGGGGATGGCT			
				CCTGCATCCCCACGCAGCCTGACGCGCGGCTCACGGCCTACGTCACCGGGAACCCGGCCC[AG]CTACCTCTTCGACTGGACCTTCGGGGATGGCTCCTC			
13435	IS	[AG]		CAACACGACCGTGCGGGGGTGCCC	ctg25099	7	PKD1
13436	I		S	CGGTCGTGTTGGAGGAGCCATCCCCT			
13436	P	C	S	ATGACGTGGCAGACGAAGGTCCAGTCGAAGAY			
13436	P	T	S	CGCGCCGAGGAAAGGTCCAGTCGAAGAY			
13436	T	C	S	TACCTCTTCGACTGGACCTTCGGGGATGGCTCCTCCAACACGACCGTG			
13436	T	T	S	TACCTCTTCGACTGGACCTTTGGGGATGGCTCCTCCAACACGACCGTG			
				CGCGCGGCTCACGGCCTACGTCACCGGGAACCCGGCCCACTACCTCTTCGACTGGACCTT[CT]GGGGATGGCTCCTCCAACACGACCGTGCGGGGGTGC			
13436	IS	[CT]		CCGACGGTGACACACAACTTCACG	ctg15424	2	PKD1
13437	I		S	CCGTCGGGCACCCCCGCAA			
13437	P	G	S	ATGACGTGGCAGACCGGTCGTGTTGGAGGY			
13437	P	A	S	CGCGCCGAGGTGGTCGTGTTGGAGGY			
13437	T	G	S	GGCTCCTCCAACACGACCGTGCGGGGGTGCCCGACGGTG			
13437	T	A	S	GGCTCCTCCAACACGACCATGCGGGGGTGCCCGACGGTG			
				GGGAACCCGGCCCACTACCTCTTCGACTGGACCTTCGGGGATGGCTCCTCCAACACGACC[GA]TGCGGGGGTGCCCGACGGTGACACACAACTTCACGC			
13437	IS	[GA]		GGAGCGGCACGTTCCCCCTGGCGC			PKD1
13438	I		A	GTGCAGCTCGGGGACGAGGCCA			
13438	P	T	A	CGCGCCGAGGTGGCTGGTGGCATY			
13438	P	C	A	ATGACGTGGCAGACCGGCTGGTGGCAY			
13438	T	T	A	GCACATGCCACCAGCCAGGCCTCGTCCCCGAGCTGCACAA			
13438	T	C	A	GCACATGCCACCAGCCGGGCCTCGTCCCCGAGCTGCACAA			
				GAGGTGGGCAACGTCACCCTGCAGCCAGAGAGGCAGTTTGTGCAGCTCGGGGACGAGGCC[TC]GGCTGGTGGCATGTGCCTGGCCCCCGTTCCCCTACC			
13438	IS	[TC]		GCTACACCTGGGACTTTGGCACCG	ctg13297	17	PKD1
13440	I		S	GGTAGATGAACGTCACCTCAGGGCCCCA			
13440	P	A	S	CGCGCCGAGGTGGCACGGGTGGY			
13440	P	G	S	ATGACGTGGCAGACCGGCACGGGTGGY			
13440	T	A	S	GCCCCCACCCGTGCCAGGGGCCCTGAGGTGACGTTCATCTACCGA			
13440	T	G	S	GCCCCCACCCGTGCCGGGGGCCCTGAGGTGACGTTCATCTACCGA			
				CCGTTCCCCTACCGCTACACCTGGGACTTTGGCACCGAGGAAGCCGCCCCCACCCGTGCC[AG]GGGGCCCTGAGGTGACGTTCATCTACCGAGACCCAG			
13440	IS	[AG]		GCTCCTATCTTGTGACAGTCACCG	ctg15064	7	PKD1
13442	I		S	CACGCTCCCATTCAGGGGCACCACA			
13442	P	G	S	ATGACGTGGCAGACCGTGCGGCTTGCY			
13442	P	A	S	CGCGCCGAGGTGTGCGGCTTGCAY			
13442	T	G	S	TCAATGCAAGCCGCACGGTGGTGCCCCTGAATGGGAGCGTGAG			
13442	T	A	S	TCAATGCAAGCCGCACAGTGGTGCCCCTGAATGGGAGCGTGAG			
				CTGGCTCAATGTGACGGTGAAGCGGCGCGTGCGGGGGCTCGTCGTCAATGCAAGCCGCAC[GA]GTGGTGCCCCTGAATGGGAGCGTGAGCTTCAGCACG			
13442	IS	[GA]		TCGCTGGAGGCCGGCAGTGATGTG	ctg16820	16	PKD1
13443	I		A	CGGTGGTGCCCCTGAATGGGAGCT			
13443	P	G	A	ATGACGTGGCAGACGTGAGCTTCAGCACGY			
13443	P	A	A	CGCGCCGAGGATGAGCTTCAGCACGTY			
13443	T	G	A	AGCGACGTGCTGAAGCTCACGCTCCCATTCAGGGGCACCACCGTG			
13443	T	A	A	AGCGACGTGCTGAAGCTCATGCTCCCATTCAGGGGCACCACCGTG			
				CGGCGCGTGCGGGGGCTCGTCGTCAATGCAAGCCGCACGGTGGTGCCCCTGAATGGGAGC[GA]TGAGCTTCAGCACGTCGCTGGAGGCCGGCAGTGAT			
13443	IS	[GA]		GTGCGCTATTCCTGGGTGCTCTGTG	ctg13010	2	PKD1
13451	I		S	GTGGTGCTGTTGAAATCCTGGGGAGAAGAGCA			
13451	P	G	S	ATGACGTGGCAGACCCAGGAAGGATGGGTY			
13451	P	A	S	CGCGCCGAGGTCAGGAAGGATGGGTCY			
13451	T	G	S	AACTGACCCATCCTTCCTGGGCTCTTCTCCCCAGGATTTCAACAGCACCACAG			
13451	T	A	S	AACTGACCCATCCTTCCTGAGCTCTTCTCCCCAGGATTTCAACAGCACCACAG			
				CTCAGGCCCAAGTCAGGGTTACAGCTAGCCTCCCGGTAAACAACTGACCCATCCTTCCTG[GA]GCTCTTCTCCCCAGGATTTCAACAGCACCACAGAAATAG			
13451	IS	[GA]		CCATTTTGCTCATGGTTATTT	ctg22fin6	22	
13460	I		A	GCACAGGCCAACTGCAGAGGCCCT			
13460	P	C	A	ATGACGTGGCAGACCTAACACCACAGCTGGY			
13460	P	A	A	CGCGCCGAGGATAACACCACAGCTGGY			
13460	T	C	A	TTGGCCAGCTGTGGTGTTAGGGGCCTCTGCAGTTGGCCTGTGCCC			
13460	T	A	A	TTGGCCAGCTGTGGTGTTATGGGCCTCTGCAGTTGGCCTGTGCCC			
				CCTGTGGCTCCTCCCCAGTTCCAGGCACCACAGATGGGCACAGGCCAACTGCAGAGGCCC[CA]TAACACCACAGCTGGCCAAGTGCCTACTACAGAAGTT			
13460	IS	[CA]		GTGGGTACTACACCTGGTCAGGC	ctg22fin10	22	SILV
13468	I		S	CCAGTGTGTACATTGTACACATTTAAATGACTCACGAGAATGAAGTTTTTTTCAAATAA			
13468	P	A	S	CGCGCCGAGGTATTAAGATCACACCACCTTGY			
13468	P	G	S	ATGACGTGGCAGACCATTAAGATCACACCACCTTY			
13468	T	A	S	ACAACAAGGTGGTGTGATCTTAATATATTTGAAAAAAACTTCATTCTCGTGAGTCATTTAAATGTGTACAATGTACACACTGGTA			
13468	T	G	S	ACAACAAGGTGGTGTGATCTTAATGTATTTGAAAAAAACTTCATTCTCGTGAGTCATTTAAATGTGTACAATGTACACACTGGTA			

FIGURE 129E

				AGAGTCAGATCTTTCTCCTTGAATATCTTTCGATAAACAACAAGGTGGTGTGATCTTAAT[AG]TATTTGAAAAAAACTTCATTCTCGTGAGTCATTTAAATGTG			
13468	IS	[AG]		TACAATGTACACACTGGTA	ctg15907	6	SAT
13477	I		A	ACTCTGGCCCCTCCACCCCTCCT			
13477	P	G	A	ATGACGTGGCAGACGGGACGCCATCATCCY			
13477	P	A	A	CGCGCCGAGGAGGACGCCATCATCCY			
13477	T	G	A	GCCAGGATGATGGCGTCCCGGAGGGGTGGAGGGGCCAGAGTGG			
13477	T	A	A	GCCAGGATGATGGCGTCCTGGAGGGGTGGAGGGGCCAGAGTGG			
				CTGTCCCGCCCTGCCCTGCCCAGCAGCCTAACCCATCCACTCTGGCCCCTCCACCCCTCC[GA]GGACGCCATCATCCTGGCTGTCATCAACAGTGGGACC			
13477	IS	[GA]		AGCTTCTTTGCTGGCTTCGTGGT	ctg13214	2	
13496	I		A	CGGTAGCCATTATTACCTTGGGATTCAATGGGTAGAGTGATTA			
13496	P	T	A	CGCGCCGAGGTCATTATACAGATGTGGAACTTY			
13496	P	C	A	ATGACGTGGCAGACCCATTATACAGATGTGGAACTY			
13496	T	T	A	TTTCAAGTTCCACATCTGTATAATGAAATCACTCTACCCATTGAATCCCAAGGTAATAATGGCTACCGGG			
13496	T	C	A	TTTCAAGTTCCACATCTGTATAATGGAATCACTCTACCCATTGAATCCCAAGGTAATAATGGCTACCGGG			
				TTTACATGGAATCGTTCCCGGTAGCCATTATTACCTTGGGATTCAATGGGTAGAGTGATT[TC]CATTATACAGATGTGGAACTTGAAACTCAGGCGTGAGGTA			
13496	IS	[TC]		GGTTTTGAGTGGGTAGGAGG	ctg15649	2	
13503	I		A	GGCGGATCACGCGGTCAGCAGATCAT			
13503	P	A	A	CGCGCCGAGGAGACCATCCTGGCTAACY			
13503	P	G	A	ATGACGTGGCAGACGGACCATCCTGGCTAAY			
13503	T	A	A	CCGTGTTAGCCAGGATGGTCTTGATCTGCTGACCGCGTGATCCGCCCA			
13503	T	G	A	CCGTGTTAGCCAGGATGGTCCTGATCTGCTGACCGCGTGATCCGCCCA			
				CGCCTGTAATCCCAGCACTTTGGGAGGGTGAGGTGGGCGGATCACGCGGTCAGCAGATCA[AG]GACCATCCTGGCTAACACGGTGAAACCCCGTCTCTAC			
13503	IS	[AG]		GAAAAATACAAAAAATTAACCAA	ctg15649	2	
13514	I		S	TGTCTCTCCCCTGCCCAACCCCCA			
13514	P	A	S	CGCGCCGAGGTCCTTCAGCCCTAGGAY			
13514	P	G	S	ATGACGTGGCAGACCCCTTCAGCCCTAGGY			
13514	T	A	S	GGGGTCCTAGGGCTGAAGGAGGGGGTTGGGCAGGGGAGAGACACC			
13514	T	G	S	GGGGTCCTAGGGCTGAAGGGGGGGGTTGGGCAGGGGAGAGACACC			
				GGGGGAAGAGTTCCCTGAGGAAGTGAGAGCCTGGACAAGGAGGGGTCCTAGGGCTGAAGG[AG]GGGGGTTGGGCAGGGGAGAGACACCTTACTCCACTT			
13514	IS	[AG]		CTACCTGCAGTGGCTGCCCACCCC	ctg14508	3	
13515	I		S	CCAGCTTGACATAAGCATGAGCCAGCCCATC			
13515	P	A	S	CGCGCCGAGGTGCCTGTCTTACAGAGCY			
13515	P	C	S	ATGACGTGGCAGACGGCCTGTCTTACAGAGCY			
13515	T	A	S	CTCTGCTCTGTAAGACAGGCAATGGGCTGGCTCATGCTTATGTCAAGCTGGAG			
13515	T	C	S	CTCTGCTCTGTAAGACAGGCCATGGGCTGGCTCATGCTTATGTCAAGCTGGAG			
				CCCCACCCCCCTCACGGAGGACATGATGAAGGAAGGGCTTTCTCTGCTCTGTAAGACAGGC[AC]ATGGGCTGGCTCATGCTTATGTCAAGCTGGAGGTTAAA			
13515	IS	[AC]		GAGAGGTGCGTTTTGGGGGGAC	ctg15144	12	
13522	I		S	CAGGCCTACTGTGGGTGCCTGCCA			
13522	P	A	S	CGCGCCGAGGTGGCCTTGCCCTGY			
13522	P	G	S	ATGACGTGGCAGACCGGCCTTGCCCTY			
13522	T	A	S	TAGTCAGGGCAAGGCCAGGCAGGCACCCACAGTAGGCCTGTG			
13522	T	G	S	TAGTCAGGGCAAGGCCGGGCAGGCACCCACAGTAGGCCTGTG			
				TACAGAGGAGGAGCCCGGGACCCAGTTGCTGGCCAGGCCCAAGCTAGTCAGGGCAAGGCC[AG]GGCAGGCACCCACAGTAGGCCTGTGTCCCGGCTGCT			
13522	IS	[AG]		CCGCTTTCTCTCGAGGTCCCATTC	ctg14932	18	
13534	I		A	GGGATGGGGTCACAGGGATAGGGGTCT			
13534	P	G	A	ATGACGTGGCAGACGGGGCCAGGATGAGY			
13534	P	A	A	CGCGCCGAGGAGGGCCAGGATGAGY			
13534	T	G	A	ACCCCTCATCCTGGCCCCGACCCCTATCCCTGTGACCCCATCCCCA			
13534	T	A	A	ACCCCTCATCCTGGCCCTGACCCCTATCCCTGTGACCCCATCCCCA			
				GGGGATGGGGAACACAGGGAGAGGGGTCAGGATGGGGATGGGGTCACAGGGATAGGGGTC[GA]GGGCCAGGATGAGGGGTCGCAGGGAGAGGGGTCA			
13534	IS	[GA]		GGATGAGGTTGGGGGGAACAAGGAGA	ctg14932	16	
13557	I		A	CTCTGTTGTCTTGCCTGTGGGAAAGCCTATGAATAGATTT			
13557	P	C	A	CGCGCCGAGGCCAGAGCCCATCTCTGY			
13557	P	G	A	ATGACGTGGCAGACGCAGAGCCCATCTCTY			
13557	T	C	A	AAGACAGAGATGGGCTCTGGAATCTATTCATAGGCTTTCCCACAGGCAAGACAACAGAGCT			
13557	T	G	A	AAGACAGAGATGGGCTCTGCAATCTATTCATAGGCTTTCCCACAGGCAAGACAACAGAGCT			
				TTCCTTTTACCTCTTGTAAAGCTCTGTTGTCTTGCCTGTGGGAAAGCCTATGAATAGATT[CG]CAGAGCCCATCTCTGTCTTACTGTGGTGTGAGTGTGCAG			
13557	IS	[CG]		GAAAGGGTGAGGGCAGGAGAC	ctg15064	7	
13561	I		A	CCTTTGGGATAGTGCCCTGTTTCTTCATTTTAATGAAAGTAGTGGT			
13561	P	A	A	CGCGCCGAGGATTCTCTAGACATCGTGAATTGY			
13561	P	G	A	ATGACGTGGCAGACGTTCTCTAGACATCGTGAATTY			
13561	T	A	A	ACTTCAATTCACGATGTCTAGAGAATCCACTACTTTCATTAAAATGAAGAAACAGGGCACTATCCCAAAGGCT			
13561	T	G	A	ACTTCAATTCACGATGTCTAGAGAACCCACTACTTTCATTAAAATGAAGAAACAGGGCACTATCCCAAAGGCT			
				GGTTGCACATGCAAGCCTTTGGGATAGTGCCCTGTTTCTTCATTTTAATGAAAGTAGTGG[AG]TTCTCTAGACATCGTGAATTGAAGTTCTTAAAATTGAATC			
13561	IS	[AG]		CATGGATTACCCTCAGCAAA	ctg15064	7	
13573	I		S	CCCTCCTCACCCCACGAGCTTTCACAATAAATTA			
13573	P	A	S	CGCGCCGAGGTGCTCCGTGGCACY			
13573	P	G	S	ATGACGTGGCAGACCGCTCCGTGGCAY			
13573	T	A	S	CCCAGTGCCACGGAGCAAATTTATTGTGAAAGCTCGTGGGGTGAGGAGGGGA			
13573	T	G	S	CCCAGTGCCACGGAGCGAATTTATTGTGAAAGCTCGTGGGGTGAGGAGGGGA			
				AGAAACACACCCTCTAAATGTGCGCGCGCTCACACACAAAGTTCCCCAGTGCCACGGAGC[AG]AATTTATTGTGAAAGCTCGTGGGGTGAGGAGGGGATGG			
13573	IS	[AG]		GGCAGGCTCTAGGAGGCTGAGT	ctg15684	5	
13585	I		S	GATGCTGGACTAGTAAGTATAATGCAACTATTCCAAAAAACAACAACAACAAGAAT			
13585	P	T	S	CGCGCCGAGGATCTTAAACACTTTTGGTCCCY			
13585	P	C	S	ATGACGTGGCAGACGTCTTAAACACTTTTGGTCCY			
13585	T	T	S	GCTTGGGACCAAAAGTGTTTAAGATTTCTTGTTGTTGTTGTTTTTTGGAATAGTTGCATTATACTTACTAGTCCAGCATCCC			
13585	T	C	S	GCTTGGGACCAAAAGTGTTTAAGACTTCTTGTTGTTGTTGTTTTTTGGAATAGTTGCATTATACTTACTAGTCCAGCATCCC			
				TGCTTAACTACAGATTGAGTATCCCTTATCCGAAATGCTTGGGACCAAAAGTGTTTAAGA[TC]TTCTTGTTGTTGTTGTTTTTTGGAATAGTTGCATTATACTT			
13585	IS	[TC]		ACTAGTCCAGCATCCCTAA	ctg15174	19	
13640	I		A	CTAGTGGCTGCTGGGGCTGCACAT			
13640	P	G	A	ATGACGTGGCAGACGCCTGCTGCCTCCY			
13640	P	C	A	CGCGCCGAGGCCCTGCTGCCTCCY			
13640	T	G	A	CCATGGAGGCAGCAGGCTGTGCAGCCCCAGCAGCCACTAGGG			
13640	T	C	A	CCATGGAGGCAGCAGGGTGTGCAGCCCCAGCAGCCACTAGGG			
				CATGCTGCCCTTTTGCCATCTCTGGGTACCGGTGACCCTAGTGGCTGCTGGGGCTGCACA[GC]CCTGCTGCCTCCATGGTCATGTTCCCCCATCTCCCAGC			
13640	IS	[GC]		TCTGCACCACCATTGCCCCCAC	ctg17263	16	LW-1
13654	I		A	GGGTGGGGGACGGCCATGTCAAGATTT			
13654	P	A	A	CGCGCCGAGGATAGAGCAGGCATATTGACY			
13654	P	G	A	ATGACGTGGCAGACGTAGAGCAGGCATATTGACY			
13654	T	A	A	ATGTGTCAATATGCCTGCTCTATAATCTTGACATGGCCGTCCCCCACCCTG			
13654	T	G	A	ATGTGTCAATATGCCTGCTCTACAATCTTGACATGGCCGTCCCCCACCCTG			
				TTGAGCCTGCCATGTAGCACATGCTGGGGTCCCAGGGTGGGGGACGGCCATGTCAAGATT[AG]TAGAGCAGGCATATTGACACATATCTTCCCTTCTCCTC			
13654	IS	[AG]		AGGAGGAGTGCTGGCATCTCCA	ctg18037	7	
13665	I		A	GACCAGCCGGGTAGCCCCATCCA			
13665	P	T	A	CGCGCCGAGGTGAGGTGCCACTGGY			
13665	P	C	A	ATGACGTGGCAGACCGAGGTGCCACTGGY			
13665	T	T	A	GAAGCCAGTGGCACCTCAGGATGGGGCTACCCGGCTGGTCCT			
13665	T	C	A	GAAGCCAGTGGCACCTCGGGATGGGGCTACCCGGCTGGTCCT			

FIGURE 129E

				GTTGGGCCAGGCCTGGCTGAGAGGGGGCAGGAGGGCAGGACCAGCCGGGTAGCCCCATCC[TC]TC[GAGGTGCCACTGGCTTCACTCCCCACAGCTGGAGG			
13665 IS	[TC]			CCCTGAACCAGTCCATTAACATCGA	ctg15128	17	
13667 I			A	CTGGATTGGAGGGGCCCGCCCT			
13667 P	A		A	CGCGCCGAGGAGGTAGGGAGACTTTGAGY			
13667 P	G		A	ATGACGTGGCAGACGGGTAGGGAGACTTTGAY			
13667 T	A		A	GGCCCTCAAAGTCTCCCTACCTGGGCGGGCCCCTCCAATCCAGCC			
13667 T	G		A	GGCCCTCAAAGTCTCCCTACCCGGGCGGGCCCCTCCAATCCAGCC			
				GTTGCTCGGAGACAGGCACAGGAGCTGTGGGAGCCGAGGCTGGATTGGAGGGGCCCGCCC[AG]GGTAGGGAGACTTTGAGGGCCTCCCAGTGGCCAAG			
13667 IS	[AG]			GACAGTGGCCGCCCCTCCTGCCCCC	ctg14007	17	
13675 I			A	TGACTTGTGTGTGATGAGAGAATGGAGACAGAGTCCCA			
13675 P	T		A	CGCGCCGAGGTGGCTCCTCTACTGTTTAAY			
13675 P	C		A	ATGACGTGGCAGACCGGCTCCTCTACTGTTY			
13675 T	T		A	GTTGTTAAACAGTAGAGGAGCCAGGGACTCTGTCTCCATTCTCTCATCACACACAAGTCATG			
13675 T	C		A	GTTGTTAAACAGTAGAGGAGCCGGGGACTCTGTCTCCATTCTCTCATCACACACAAGTCATG			
				TTTTTTTTTTTTGGTAGATGCATGACTTGTGTGTGATGAGAGAATGGAGACAGAGTCCC[TC]GGCTCCTCTACTGTTTAACAACATGGCTTTCTTATTTTGTT			
13675 IS	[TC]			TGAATTGTTAATTCACAGA			
13676 I			A	GTCATCCTCTGTCTGGTAGAGACATTCACATCTTTGCTTTTATTCTT			
13676 P	G		A	ATGACGTGGCAGACGTGCTCTCTGTACTTTTGAY			
13676 P	A		A	CGCGCCGAGGATGCTCTCTGTACTTTTGACY			
13676 T	G		A	TTTGGTCAAAAGTACAGAGAGCACAGAATAAAAGCAAAGATGTGAATGTCTCTACCAGACAGAGGATGACCT			
13676 T	A		A	TTTGGTCAAAAGTACAGAGAGCATAGAATAAAAGCAAAGATGTGAATGTCTCTACCAGACAGAGGATGACCT			
				AAACTGCTGACTAGGTCATCCTCTGTCTGGTAGAGACATTCACATCTTTGCTTTTATTCT[GA]TGCTCTCTGTACTTTTGACCAAAAATTGACCAAAGTAAGAA			
13676 IS	[GA]			AATGCAAGTTCTAAAAATA	ctg15907	6	ADAR
13680 I			A	CTCTCCGTGGTGCTGAAACGCCTCGA			
13680 P	T		A	CGCGCCGAGGTAGCCGCCGCTGY			
13680 P	C		A	ATGACGTGGCAGACCAGCCGCCGCTY			
13680 T	T		A	CGGACAGCGGCGGCTACGAGGCGTTTCAGCACCACGGAGAGCG			
13680 T	C		A	CGGACAGCGGCGGCTGCGAGGCGTTTCAGCACCACGGAGAGCG			
				ATACTCTTCGCGCTCCTGAAAAGCAGGTCTGGACGCTCTCCGTGGTGCTGAAACGCCTCG[TC]AGCCGCCGCTGTCCGTGGTATCTACGACCCCCTCGCT			
13680 IS	[TC]			CCAATTTCCCCTGGGGCTCTCCC	ctg14948	16	GLRA1
13685 I			S	GGGTCTGAATAGAACCGGGCAGGGCTACTTTT			
13685 P	C		S	ATGACGTGGCAGACGGGCACACTGCCTY			
13685 P	T		S	CGCGCCGAGGAGGCACACTGCCTATY			
13685 T	C		S	CCCCATAGGCAGTGTGCCCAAAGTAGCCCTGCCCGGTTCTATTCAGACCCTT			
13685 T	T		S	CCCCATAGGCAGTGTGCCTAAAGTAGCCCTGCCCGGTTCTATTCAGACCCTT			
				GCCCGGTTCTCTTTTTTCACTGCTCCTTGCAGAGCAGGGCCACCCCATAGGCAGTGTGCC[CT]AAAGTAGCCCTGCCCGGTTCTATTCAGACCCTTCTTGT			
13685 IS	[CT]			GAACTTCTGCTCTTCCTCTGCC	ctg15064	7	
13687 I			A	CCGGAGGACAGGAGACTCGAAAAACGCTA			
13687 P	C		A	ATGACGTGGCAGACCTTCCTGGCCAGTCTY			
13687 P	T		A	CGCGCCGAGGTTTCCTGGCCAGTCTCY			
13687 T	C		A	CAAAGAGACTGGCCAGGAAGAGCGTTTTTCGAGTCTCCTGTCCTCCGGGG			
13687 T	T		A	CAAAGAGACTGGCCAGGAAAAGCGTTTTTCGAGTCTCCTGTCCTCCGGGG			
				GTTCAACTGTGTGTCCCTGAGACTCCTCTGCCCCGGAGGACAGGAGACTCGAAAAACGCT[CT]TTCCTGGCCAGTCTCTTTGCTCTGTGTCTGCCAGCCCC			
13687 IS	[CT]			CAGCATCTCTCCTCTTTCCTGT	ctg15944	11	
13690 I			S	GCACAGCAGACCTGTGTAATGCACATGTATTTAAAAAATAAGTAACTATTGTTCTCT			
13690 P	C		S	ATGACGTGGCAGACGATTTCTTAAATAGGGACCAATTTAY			
13690 P	T		S	CGCGCCGAGGAATTTCTTAAATAGGGACCAATTTATY			
13690 T	C		S	AGAAATAAATTGGTCCCTATTTAAGAAATCGAGAACAATAGTTACTTATTTTTTTAAATACATGTGCATTACACAGGTCTGCTGTGCAT			
13690 T	T		S	AGAAATAAATTGGTCCCTATTTAAGAAATTGAGAACAATAGTTACTTATTTTTTAAATACATGTGCATTACACAGGTCTGCTGTGCAT			
				CAGGGAGTGGCCAATTTCATGAGCAGCAACGAGAAATAAATTGGTCCCTATTTAAGAAAT[CT]GAGAACAATAGTTACTTATTTTTTAAATACATGTGCATTAC			
13690 IS	[CT]			ACAGGTCTGCTGTGCATTG	ctg13023	2	
13694 I			S	CCAGGTTCTACTGCATAAAAAGTGTAAGTAACCAATATTTCAGACAAAAGGTT			
13694 P	G		S	CGCGCCGAGGCATGGTTCTTCCCACTTGY			
13694 P	C		S	ATGACGTGGCAGACGATGGTTCTTCCCACTTGY			
13694 T	G		S	AGGGCAAGTGGGAAGAACCATGACCTTTTGTCTGAAATATTGGTTACTTACACTTTTTATGCAGTAGAACCTGGAT			
13694 T	C		S	AGGGCAAGTGGGAAGAACCATCACCTTTTGTCTGAAATATTGGTTACTTACACTTTTTATGCAGTAGAACCTGGAT			
				GTGTGCCTACATCAATGGTAACATCTTATTCTTTTTCTAAGGGCAAGTGGGAAGAACCAT[GC]ACCTTTTGTCTGAAATATTGGTTACTTACACTTTTTATGCA			
13694 IS	[GC]			GTAGAACCTGGATCATGAG	ctg13023	2	
13695 I			S	GGGTTGCAGGCCCCACCTTCCCT			
13695 P	C		S	ATGACGTGGCAGACGGGTGGCACTGGGY			
13695 P	T		S	CGCGCCGAGGAGGTGGCACTGGGY			
13695 T	C		S	CCGGCCCAGTGCCACCCGGGAAGGTGGGGCCTGCAACCCCC			
13695 T	T		S	CCGGCCCAGTGCCACCTGGGAAGGTGGGGCCTGCAACCCCC			
				GAAACCTGCCTCTACCATGGGCATGGGGCCCTTGGGGAAAGGCGCCGGCCCAGTGCCACC[CT]GGGAAGGTGGGGCCTGCAACCCCCTCAGCCCAGGTG			
13695 IS	[CT]			GGGAAGTGGGAGGAGGACTCAGAG	ctg22fin4	22	TCOF1
13703 I			S	TGAGAGGGCCTGGGTGGGGAACCT			
13703 P	G		S	CGCGCCGAGGCGGAGGACAGGAGGY			
13703 P	C		S	ATGACGTGGCAGACGGGAGGACAGGAGGY			
13703 T	G		S	CTGCCCTCCTGTCCTCCGGGTTCCCCACCCAGGCCCTCTCAGC			
13703 T	C		S	CTGCCCTCCTGTCCTCCCGGTTCCCCACCCAGGCCCTCTCAGC			
				ATCTCTCTGTCCTTCGCTGTCCCTCTCTATTGTCTCCCTCTTTCTGCCCTCCTGTCCTCC[GC]GGTTCCCCACCCAGGCCCTCTCAGCCTGGCTGGCCCCTT			
13703 IS	[GC]			CTCCTTGTGTTGCCCTCCTAG	ctg22fin4	22	
13705 I			A	CCCTTGGGTGAAAAATACATGTCCATCCTGATATCTCCTGAATTT			
13705 P	C		A	ATGACGTGGCAGACCAGAAATTAGCCTCCACATY			
13705 P	A		A	CGCGCCGAGGAAGAAATTAGCCTCCACATGY			
13705 T	C		A	TGCACATGTGGAGGCTAATTTCTGAATTCAGGAGATATCAGGATGGACATGTATTTTTCACCCAAGGGAC			
13705 T	A		A	TGCACATGTGGAGGCTAATTTCTTAATTCAGGAGATATCAGGATGGACATGTATTTTTCACCCAAGGGAC			
				GAGCTCACATTCCTGTCCCTTGGGTGAAAAATACATGTCCATCCTGATATCTCCTGAATT[CA]AGAAATTAGCCTCCACATGTGCAATGGCTTTAAGAGCCAG			
13705 IS	[CA]			AAGCAGGGTTCTGGGAATTT	ctg22fin4	22	COX10
13708 I			S	GGGGGCAGGCACCCACTCACCT			
13708 P	T		S	CGCGCCGAGGATTGAAGCGGACAGCTY			
13708 P	C		S	ATGACGTGGCAGACGTTGAAGCGGACAGCY			
13708 T	T		S	TTCGAGCTGTCCGCTTCAATGGTGAGTGGGTGCCTGCCCCCCT			
13708 T	C		S	TTCGAGCTGTCCGCTTCAACGGTGAGTGGGTGCCTGCCCCCCT			
				GGCGATGGAACCCACCGATGGGCGGATGCTTCTGCAGTACATTCGAGCTGTCCGCTTCAA[TC]GGTGAGTGGGTGCCTGCCCCCCTGCAGCAGTGAAGGA			
13708 IS	[TC]			CAGCTGGGGGGCTGGATTTTGCT	ctg15804	2	
13710 I			S	AGATACGGGATAAACAAAAGCACGAACAAGCATTTAATCTCATGAATGAATA			
13710 P	G		S	ATGACGTGGCAGACCGACCAGCCTGACAY			
13710 P	A		S	CGCGCCGAGGTGACCAGCCTGACAGY			
13710 T	G		S	CTGCCTGTCAGGCTGGTCGATTCATTCATGAGATTAAATGCTTGTTCGTGCTTTTGTTTATCCCGTATCTGG			
13710 T	A		S	CTGCCTGTCAGGCTGGTCAATTCATTCATGAGATTAAATGCTTGTTCGTGCTTTTGTTTATCCCGTATCTGG			
				GAAAAGGTAATGAGGTCCCCAGGAGGTCTCGCTGCCTGTTTCCTGCCTGTCAGGCTGGTC[GA]ATTCATTCATGAGATTAAATGCTTGTTCGTGCTTTTGTT			
13710 IS	[GA]			TATCCCGTATCTGGCTGCTTG	ctg12325	11	
13715 I			A	CTGCCATTCTGTTCTGCTTGTCTTTGTTATTTTATTTTGTAAAATGCTGAGAT			
13715 P	A		A	CGCGCCGAGGACACCCCTCTTGACAGY			
13715 P	G		A	ATGACGTGGCAGACGCACCCCTCTTGACAY			
13715 T	A		A	AGCTCTGTCAAGAGGGGTGTTCTCAGCATTTTACAAAATAAAATAACAAAGACAAGCAGAACAGAATGGCAGTG			

FIGURE 129E

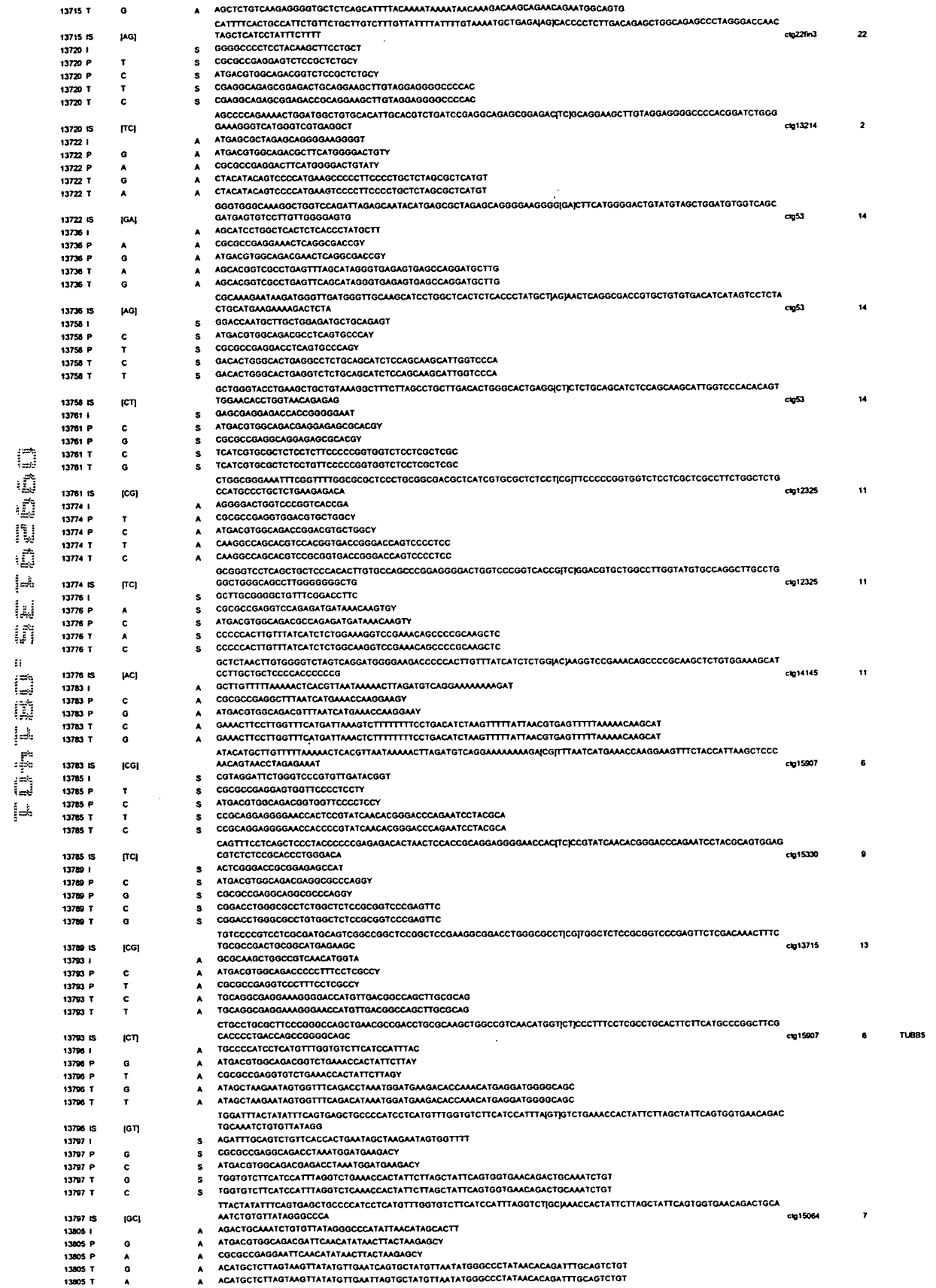

13715 T G A AGCTCTGTCAAGAGGGGTGCTCTCAGCATTTTACAAAATAAAATAACAAAGACAAGCAGAACAGAATGGCAGTG
13715 tS [AG] CATTTTCACTGCCATTCTGTTCTGCTTGTCTTTGTTATTTTATTTTGTAAAATGCTGAGA[AG]CACCCCTCTTGACAGAGCTGGCAGAGCCCTAGGGACCAAC TAGCTCATCCTATTTCTTTT ctg22fin3 22
13720 I S GGGGCCCCTCCTACAAGCTTCCTGCT
13720 P T S CGCGCCGAGGAGTCTCCGCTCTGCY
13720 P C S ATGACGTGGCAGACGGTCTCCGCTCTGCY
13720 T T S CGAGGCAGAGCGGAGACTGCAGGAAGCTTGTAGGAGGGGCCCCAC
13720 T C S CGAGGCAGAGCGGAGACCGCAGGAAGCTTGTAGGAGGGGCCCCAC
13720 tS [TC] AGCCCCAGAAAACTGGATGGCTGTGCACATTGCACGTCTGATCCGAGGCAGAGCGGAGAC[TC]GCAGGAAGCTTGTAGGAGGGGCCCCACGGATCTGGG GAAAGGGTCATGGGTCGTGAGGCT ctg13214 2
13722 I A ATGAGCGCTAGAGCAGGGGAAGGGGT
13722 P G A ATGACGTGGCAGACGCTTCATGGGGACTGTY
13722 P A A CGCGCCGAGGACTTCATGGGGACTGTATY
13722 T G A CTACATACAGTCCCCATGAAGCCCCCTTCCCCTGCTCTAGCGCTCATGT
13722 T A A CTACATACAGTCCCCATGAAGTCCCCTTCCCCTGCTCTAGCGCTCATGT
13722 tS [GA] GGGTGGGCAAAGGCTGGTCCAGATTAGAGCAATACATGAGCGCTAGAGCAGGGGAAGGGG[GA]CTTCATGGGGACTGTATGTAGCTGGATGTGGTCAGC GATGAGTGTCCTTGTTGGGGAGTG ctg53 14
13736 I A AGCATCCTGGCTCACTCTCACCCTATGCTT
13736 P A A CGCGCCGAGGAAACTCAGGCGACCGY
13736 P G A ATGACGTGGCAGACGAACTCAGGCGACCGY
13736 T A A AGCACGGTCGCCTGAGTTTAGCATAGGGTGAGAGTGAGCCAGGATGCTTG
13736 T G A AGCACGGTCGCCTGAGTTCAGCATAGGGTGAGAGTGAGCCAGGATGCTTG
13736 tS [AG] CGCAAAGAATAAGATGGGTTGATGGGTTGCAAGCATCCTGGCTCACTCTCACCCTATGCT[AG]AACTCAGGCGACCGTGCTGTGTGACATCATAGTCCTCTA CTGCATGAAGAAAAGACTCTA ctg53 14
13758 I S GGACCAATGCTTGCTGGAGATGCTGCAGAGT
13758 P C S ATGACGTGGCAGACGCCTCAGTGCCCAY
13758 P T S CGCGCCGAGGACCTCAGTGCCCAGY
13758 T C S GACACTGGGCACTGAGGCCTCTGCAGCATCTCCAGCAAGCATTGGTCCCA
13758 T T S GACACTGGGCACTGAGGTCTCTGCAGCATCTCCAGCAAGCATTGGTCCCA
13758 tS [CT] GCTGGGTACCTGAAGCTGCTGTAAAGGCTTTCTTAGCCTGCTTGACACTGGGCACTGAGG[CT]CTCTGCAGCATCTCCAGCAAGCATTGGTCCCACACAGT TGGAACACCTGGTAACAGAGAG ctg53 14
13761 I S GAGCGAGGAGACCACCGGGGGAAT
13761 P C S ATGACGTGGCAGACGAGGAGAGCGCACGY
13761 P G S CGCGCCGAGGCAGGAGAGCGCACGY
13761 T C S TCATCGTGCGCTCTCCTCTTCCCCCGGTGGTCTCCTCGCTCGC
13761 T G S TCATCGTGCGCTCTCCTGTTCCCCCGGTGGTCTCCTCGCTCGC
13761 tS [CG] CTGGCGGGAAATTTCGGTTTTGGCGCGCTCCCTGCGGCGACGCTCATCGTGCGCTCTCCT[CG]TTCCCCCGGTGGTCTCCTCGCTCGCCTTCTGGCTCTG CCATGCCCTGCTCTGAAGAGACA ctg12325 11
13774 I A AGGGGACTGGTCCCGGTCACCGA
13774 P T A CGCGCCGAGGTGGACGTGCTGGCY
13774 P C A ATGACGTGGCAGACCGGACGTGCTGGCY
13774 T T A CAAGGCCAGCACGTCCACGGTGACCGGGACCAGTCCCCTCC
13774 T C A CAAGGCCAGCACGTCCGCGGTGACCGGGACCAGTCCCCTCC
13774 tS [TC] GCGGGTCCTCAGCTGCTCCCACACTTGTGCCAGCCCGGAGGGGACTGGTCCCGGTCACCG[TC]GGACGTGCTGGCCTTGGTATGTGCCAGGCTTGCCTG GGCTGGGCAGCCTTGGGGGGGCTG ctg12325 11
13776 I S GCTTGCGGGGCTGTTTCGGACCTTC
13776 P A S CGCGCCGAGGTCCAGAGATGATAAACAAGTGY
13776 P C S ATGACGTGGCAGACGCCAGAGATGATAAACAAGTY
13776 T A S CCCCCACTTGTTTATCATCTCTGGCAAAGGTCCGAAACAGCCCCGCAAGCTC
13776 T C S CCCCCACTTGTTTATCATCTCTGGCAAGGTCCGAAACAGCCCCGCAAGCTC
13776 tS [AC] GCTCTAACTTGTGGGGTCTAGTCAGGATGGGGAAGACCCCCACTTGTTTATCATCTCTGG[AC]AAGGTCCGAAACAGCCCCGCAAGCTCTGTGGAAAGCAT CCTTGCTGCTCCCCACCCCCCG ctg14145 11
13783 I A GCTTGTTTTTAAAAACTCACGTTAATAAAAACTTAGATGTCAGGAAAAAAAAGAT
13783 P C A CGCGCCGAGGCTTTAATCATGAAACCAAGGAAGY
13783 P G A ATGACGTGGCAGACGTTTAATCATGAAACCAAGGAAY
13783 T C A GAAACTTCCTTGGTTTCATGATTAAAGTCTTTTTTTTCCTGACATCTAAGTTTTTATTAACGTGAGTTTTTAAAAACAAGCAT
13783 T G A GAAACTTCCTTGGTTTCATGATTAAACTCTTTTTTTTCCTGACATCTAAGTTTTTATTAACGTGAGTTTTTAAAAACAAGCAT
13783 tS [CG] ATACATGCTTGTTTTTAAAAACTCACGTTAATAAAAACTTAGATGTCAGGAAAAAAAAGA[CG]TTTAATCATGAAACCAAGGAAGTTTCTACCATTAAGCTCCC AACAGTAACCTAGAGAAAT ctg15907 6
13785 I S CGTAGGATTCTGGGTCCCGTGTTGATACGGT
13785 P T S CGCGCCGAGGAGTGGTTCCCCTCCTY
13785 P C S ATGACGTGGCAGACGGTGGTTCCCCTCCY
13785 T T S CCGCAGGAGGGGAACCACTCCGTATCAACACGGGACCCAGAATCCTACGCA
13785 T C S CCGCAGGAGGGGAACCACCCCGTATCAACACGGGACCCAGAATCCTACGCA
13785 tS [TC] CAGTTTCCTCAGCTCCCTACCCCCCGAGAGACACTAACTCCACCGCAGGAGGGGAACCAC[TC]CCGTATCAACACGGGACCCAGAATCCTACGCAGTGGAG CGTCTCTCCGCACCCTGGGACA ctg15330 9
13789 I S ACTCGGGACCGCGGAGAGCCAT
13789 P C S ATGACGTGGCAGACGAGGCGCCCAGGY
13789 P G S CGCGCCGAGGCAGGCGCCCAGGY
13789 T C S CGGACCTGGGCGCCTCTGGCTCTCCGCGGTCCCGAGTTC
13789 T G S CGGACCTGGGCGCCTGTGGCTCTCCGCGGTCCCGAGTTC
13789 tS [CG] TGTCCCCGTCCTCGCGATGCAGTCGGCCGGCTCCGGCTCCGGAAGGCGGACCTGGGCGCCT[CG]TGGCTCTCCGCGGTCCCGAGTTCTCGACAAACTTTC TGCGCCGACTGCGGCATGAGAAGC ctg13715 13
13793 I A GCGCAAGCTGGCCGTCAACATGGTA
13793 P C A ATGACGTGGCAGACCCCCTTTCCTCGCCY
13793 P T A CGCGCCGAGGTCCCTTTCCTCGCCY
13793 T C A TGCAGGCGAGGAAAGGGGACCATGTTGACGGCCAGCTTGCGCAG
13793 T T A TGCAGGCGAGGAAAGGGAACCATGTTGACGGCCAGCTTGCGCAG
13793 tS [CT] CTGCCTGCGCTTCCCGGGCCAGCTGAACGCCGACCTGCGCAAGCTGGCCGTCAACATGGT[CT]CCCTTTCCTCGCCTGCACTTCTTCATGCCCGGCTTCG CACCCCTGACCAGCCGGGGCAGC ctg15907 6 TUBB5
13796 I A TGCCCCATCCTCATGTTTGGTGTCTTCATCCATTTAC
13796 P G A ATGACGTGGCAGACGGTCTGAAACCACTATTCTTAY
13796 P T A CGCGCCGAGGTGTCTGAAACCACTATTCTTAGY
13796 T G A ATAGCTAAGAATAGTGGTTTCAGACCTAAATGGATGAAGACACCAAACATGAGGATGGGGCAGC
13796 T T A ATAGCTAAGAATAGTGGTTTCAGACATAAATGGATGAAGACACCAAACATGAGGATGGGGCAGC
13796 tS [GT] TGGATTTACTATATTTCAGTGAGCTGCCCCATCCTCATGTTTGGTGTCTTCATCCATTTA[GT]GTCTGAAACCACTATTCTTAGCTATTCAGTGGTGAACAGAC TGCAAATCTGTGTTATAGG
13797 I S AGATTTGCAGTCTGTTCACCACTGAATAGCTAAGAATAGTGGTTTT
13797 P G S CGCGCCGAGGCAGACCTAAATGGATGAAGACY
13797 P C S ATGACGTGGCAGACGAGACCTAAATGGATGAAGACY
13797 T G S TGGTGTCTTCATCCATTTAGGTCTGAAACCACTATTCTTAGCTATTCAGTGGTGAACAGACTGCAAATCTGT
13797 T C S TGGTGTCTTCATCCATTTAGGTCTCAAACCACTATTCTTAGCTATTCAGTGGTGAACAGACTGCAAATCTGT
13797 tS [GC] TTACTATATTTCAGTGAGCTGCCCCATCCTCATGTTTGGTGTCTTCATCCATTTAGGTCT[GC]AAACCACTATTCTTAGCTATTCAGTGGTGAACAGACTGCA AATCTGTGTTATAGGGCCCA ctg15064 7
13805 I A AGACTGCAAATCTGTGTTATAGGGCCCATATTAACATAGCACTT
13805 P G A ATGACGTGGCAGACGATTCAACATATAACTTACTAAGAGCY
13805 P A A CGCGCCGAGGAATTCAACATATAACTTACTAAGAGCY
13805 T G A ACATGCTCTTAGTAAGTTATATGTTGAATCAGTGCTATGTTAATATGGGCCCTATAACACAGATTTGCAGTCTGT
13805 T A A ACATGCTCTTAGTAAGTTATATGTTGAATTAGTGCTATGTTAATATGGGCCCTATAACACAGATTTGCAGTCTGT

FIGURE 129E

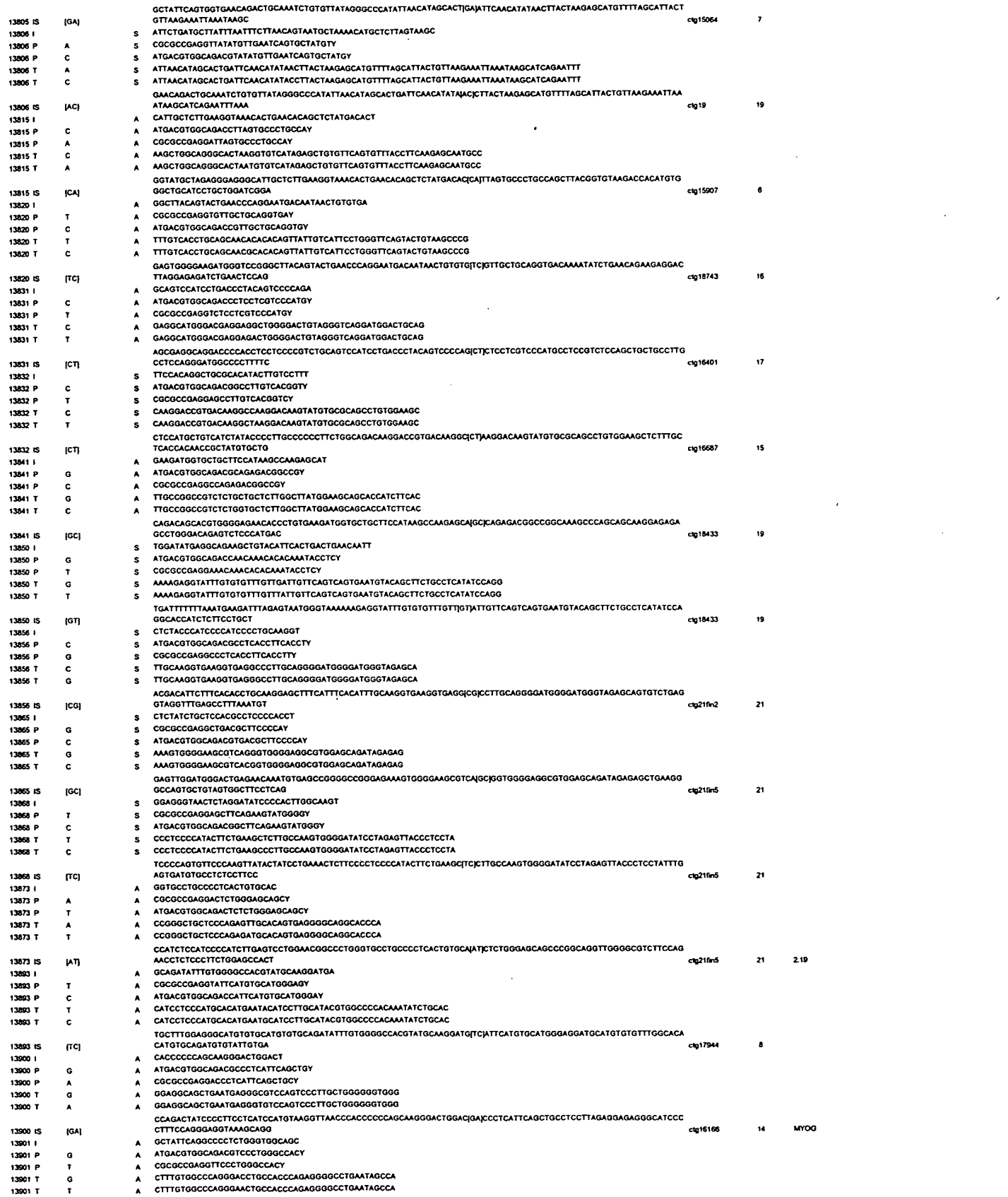

GCTATTCAGTGGTGAACAGACTGCAAATCTGTGTTATAGGGCCCATATTAACATAGCACT[GA]ATTCAACATATAACTTACTAAGAGCATGTTTTAGCATTACT
13805 IS [GA] GTTAAGAAATTAAATAAGC ctg15064 7
13806 I S ATTCTGATGCTTATTTAATTTCTTAACAGTAATGCTAAAACATGCTCTTAGTAAGC
13806 P A S CGCGCCGAGGTTATATGTTGAATCAGTGCTATGTY
13806 P C S ATGACGTGGCAGACGTATATGTTGAATCAGTGCTATGY
13806 T A S ATTAACATAGCACTGATTCAACATATAACTTACTAAGAGCATGTTTTAGCATTACTGTTAAGAAATTAAATAAGCATCAGAATTT
13806 T C S ATTAACATAGCACTGATTCAACATATACCTTACTAAGAGCATGTTTTAGCATTACTGTTAAGAAATTAAATAAGCATCAGAATTT
GAACAGACTGCAAATCTGTGTTATAGGGCCCATATTAACATAGCACTGATTCAACATATA[AC]CTTACTAAGAGCATGTTTTAGCATTACTGTTAAGAAATTAA
13806 IS [AC] ATAAGCATCAGAATTTAAA ctg19 19
13815 I A CATTGCTCTTGAAGGTAAACACTGAACACAGCTCTATGACACT
13815 P C A ATGACGTGGCAGACCTTAGTGCCCTGCCAY
13815 P A A CGCGCCGAGGATTAGTGCCCTGCCAY
13815 T C A AAGCTGGCAGGGCACTAAGGTGTCATAGAGCTGTGTTCAGTGTTTACCTTCAAGAGCAATGCC
13815 T A A AAGCTGGCAGGGCACTAATGTGTCATAGAGCTGTGTTCAGTGTTTACCTTCAAGAGCAATGCC
GGTATGCTAGAGGGAGGGCATTGCTCTTGAAGGTAAACACTGAACACAGCTCTATGACAC[CA]TTAGTGCCCTGCCAGCTTACGGTGTAAGACCACATGTG
13815 IS [CA] GGCTGCATCCTGCTGGATCGGA ctg15907 6
13820 I A GGCTTACAGTACTGAACCCAGGAATGACAATAACTGTGTGA
13820 P T A CGCGCCGAGGTGTTGCTGCAGGTGAY
13820 P C A ATGACGTGGCAGACCGTTGCTGCAGGTGY
13820 T T A TTTGTCACCTGCAGCAACACACACAGTTATTGTCATTCCTGGGTTCAGTACTGTAAGCCCG
13820 T C A TTTGTCACCTGCAGCAACGCACACAGTTATTGTCATTCCTGGGTTCAGTACTGTAAGCCCG
GAGTGGGGAAGATGGGTCCGGGCTTACAGTACTGAACCCAGGAATGACAATAACTGTGTG[TC]GTTGCTGCAGGTGACAAAATATCTGAACAGAAGAGGAC
13820 IS [TC] TTAGGAGAGATCTGAACTCCAG ctg18743 16
13831 I A GCAGTCCATCCTGACCCTACAGTCCCCAGA
13831 P C A ATGACGTGGCAGACCCTCCTCGTCCCATGY
13831 P T A CGCGCCGAGGTCTCCTCGTCCCATGY
13831 T C A GAGGCATGGGACGAGGAGGCTGGGGACTGTAGGGTCAGGATGGACTGCAG
13831 T T A GAGGCATGGGACGAGGAGACTGGGGACTGTAGGGTCAGGATGGACTGCAG
AGCGAGGCAGGACCCCACCTCCTCCCCGTCTGCAGTCCATCCTGACCCTACAGTCCCCAG[CT]CTCCTCGTCCCATGCCTCCGTCTCCAGCTGCTGCCTTG
13831 IS [CT] CCTCCAGGGATGGCCCCTTTTC ctg16401 17
13832 I S TTCCACAGGCTGCGCACATACTTGTCCTTT
13832 P C S ATGACGTGGCAGACGGCCTTGTCACGGTY
13832 P T S CGCGCCGAGGAGCCTTGTCACGGTCY
13832 T C S CAAGGACCGTGACAAGGCCAAGGACAAGTATGTGCGCAGCCTGTGGAAGC
13832 T T S CAAGGACCGTGACAAGGCTAAGGACAAGTATGTGCGCAGCCTGTGGAAGC
CTCCATGCTGTCATCTATACCCCTTGCCCCCCTTCTGGCAGACAAGGACCGTGACAAGGC[CT]AAGGACAAGTATGTGCGCAGCCTGTGGAAGCTCTTTGC
13832 IS [CT] TCACCACAACCGCTATGTGCTG ctg16687 15
13841 I A GAAGATGGTGCTGCTTCCATAAGCCAAGAGCAT
13841 P G A ATGACGTGGCAGACGCAGAGACGGCCGY
13841 P C A CGCGCCGAGGCCAGAGACGGCCGY
13841 T G A TTGCCGGCCGTCTCTGCTGCTCTTGGCTTATGGAAGCAGCACCATCTTCAC
13841 T C A TTGCCGGCCGTCTCTGGTGCTCTTGGCTTATGGAAGCAGCACCATCTTCAC
CAGACAGCACGTGGGGAGAACACCCTGTGAAGATGGTGCTGCTTCCATAAGCCAAGAGCA[GC]CAGAGACGGCCGGCAAAGCCCAGCAGCAAGGAGAGA
13841 IS [GC] GCCTGGGACAGAGTCTCCCATGAC ctg18433 19
13850 I S TGGATATGAGGCAGAAGCTGTACATTCACTGACTGAACAATT
13850 P G S ATGACGTGGCAGACCAACAAACACACAAATACCTCY
13850 P T S CGCGCCGAGGAAACAAACACACAAATACCTCY
13850 T G S AAAAGAGGTATTTGTGTGTTTGTTGATTGTTCAGTCAGTGAATGTACAGCTTCTGCCTCATATCCAGG
13850 T T S AAAAGAGGTATTTGTGTGTTTGTTTATTGTTCAGTCAGTGAATGTACAGCTTCTGCCTCATATCCAGG
TGATTTTTTTAAATGAAGATTTAGAGTAATGGGTAAAAAAGAGGTATTTGTGTGTTTGTT[GT]ATTGTTCAGTCAGTGAATGTACAGCTTCTGCCTCATATCCA
13850 IS [GT] GGCACCATCTCTTCCTGCT ctg18433 19
13856 I S CTCTACCCATCCCCATCCCCTGCAAGGT
13856 P C S ATGACGTGGCAGACGCCTCACCTTCACCTY
13856 P G S CGCGCCGAGGCCCTCACCTTCACCTTY
13856 T C S TTGCAAGGTGAAGGTGAGGCCCTTGCAGGGGATGGGGATGGGTAGAGCA
13856 T G S TTGCAAGGTGAAGGTGAGGGCCTTGCAGGGGATGGGGATGGGTAGAGCA
ACGACATTCTTTCACACCTGCAAGGAAGCTTTCATTTCACATTTGCAAGGTGAAGGTGAGG[CG]CCTTGCAGGGGATGGGGATGGGTAGAGCAGTGTCTGAG
13856 IS [CG] GTAGGTTTGAGCCTTTAAATGT ctg21fin2 21
13865 I S CTCTATCTGCTCCACGCCTCCCCACCT
13865 P G S CGCGCCGAGGCTGACGCTTCCCCAY
13865 P C S ATGACGTGGCAGACGTGACGCTTCCCCAY
13865 T G S AAAGTGGGGAAGCGTCAGGGTGGGGAGGCGTGGAGCAGATAGAGAG
13865 T C S AAAGTGGGGAAGCGTCACGGTGGGGAGGCGTGGAGCAGATAGAGAG
GAGTTGGATGGGACTGAGAACAAATGTGAGCCGGGGCCGGGAGAAAGTGGGGAAGCGTCA[GC]GGTGGGGAGGCGTGGAGCAGATAGAGAGCTGAAGG
13865 IS [GC] GCCAGTGCTGTAGTGGCTTCCTCAG ctg21fin5 21
13868 I S GGAGGGTAACTCTAGGATATCCCCACTTGGCAAGT
13868 P T S CGCGCCGAGGAGCTTCAGAAGTATGGGGY
13868 P C S ATGACGTGGCAGACGGCTTCAGAAGTATGGGY
13868 T T S CCCTCCCCATACTTCTGAAGCTCTTGCCAAGTGGGGATATCCTAGAGTTACCCTCCTA
13868 T C S CCCTCCCCATACTTCTGAAGCCCTTGCCAAGTGGGGATATCCTAGAGTTACCCTCCTA
TCCCCAGTGTTCCCAAGTTATACTATCCTGAAACTCTTCCCCTCCCCATACTTCTGAAGC[TC]CTTGCCAAGTGGGGATATCCTAGAGTTACCCTCCTATTTG
13868 IS [TC] AGTGATGTGCCTCTCCTTCC ctg21fin5 21
13873 I A GGTGCCTGCCCCTCACTGTGCAC
13873 P A A CGCGCCGAGGACTCTGGGAGCAGCY
13873 P T A ATGACGTGGCAGACTCTCTGGGAGCAGCY
13873 T A A CCGGGCTGCTCCCAGAGTTGCACAGTGAGGGGCAGGCACCCA
13873 T T A CCGGGCTGCTCCCAGAGATGCACAGTGAGGGGCAGGCACCCA
CCATCTCCATCCCCATCTTGAGTCCTGGAACGGCCCTGGGTGCCTGCCCCTCACTGTGC[AT]CTCTGGGAGCAGCCCGGCAGGTTGGGGCGTCTTCCAG
13873 IS [AT] AACCTCTCCCTTCTGGAGCCACT ctg21fin5 21 2.19
13893 I A GCAGATATTTGTGGGGCCACGTATGCAAGGATGA
13893 P T A CGCGCCGAGGTATTCATGTGCATGGGAGY
13893 P C A ATGACGTGGCAGACCATTCATGTGCATGGGAY
13893 T T A CATCCTCCCATGCACATGAATACATCCTTGCATACGTGGCCCCACAAATATCTGCAC
13893 T C A CATCCTCCCATGCACATGAATGCATCCTTGCATACGTGGCCCCACAAATATCTGCAC
TGCTTTGGAGGGCATGTGTGCATGTGTGCAGATATTTGTGGGGCCACGTATGCAAGGATG[TC]ATTCATGTGCATGGGAGGATGCATGTGTGTTTGGCACA
13893 IS [TC] CATGTGCAGATGTGTATTGTGA ctg17944 8
13900 I A CACCCCCCAGCAAGGGACTGGACT
13900 P G A ATGACGTGGCAGACGCCCTCATTCAGCTGY
13900 P A A CGCGCCGAGGACCCTCATTCAGCTGCY
13900 T G A GGAGGCAGCTGAATGAGGGCGTCCAGTCCCTTGCTGGGGGGTGGG
13900 T A A GGAGGCAGCTGAATGAGGGTGTCCAGTCCCTTGCTGGGGGGTGGG
CCAGACTATCCCCTTCCTCATCCATGTAAGGTTAACCCACCCCCCAGCAAGGGACTGGAC[GA]CCCTCATTCAGCTGCCTCCTTAGAGGAGAGGGCATCCC
13900 IS [GA] CTTTCCAGGGAGGTAAAGCAGG ctg16166 14 MYOG
13901 I A GCTATTCAGGCCCCTCTGGGTGGCAGC
13901 P G A ATGACGTGGCAGACGTCCCTGGGCCACY
13901 P T A CGCGCCGAGGTTCCCTGGGCCACY
13901 T G A CTTTGTGGCCCAGGGACCTGCCACCCAGAGGGGCCTGAATAGCCA
13901 T T A CTTTGTGGCCCAGGGAACTGCCACCCAGAGGGGCCTGAATAGCCA

FIGURE 129E

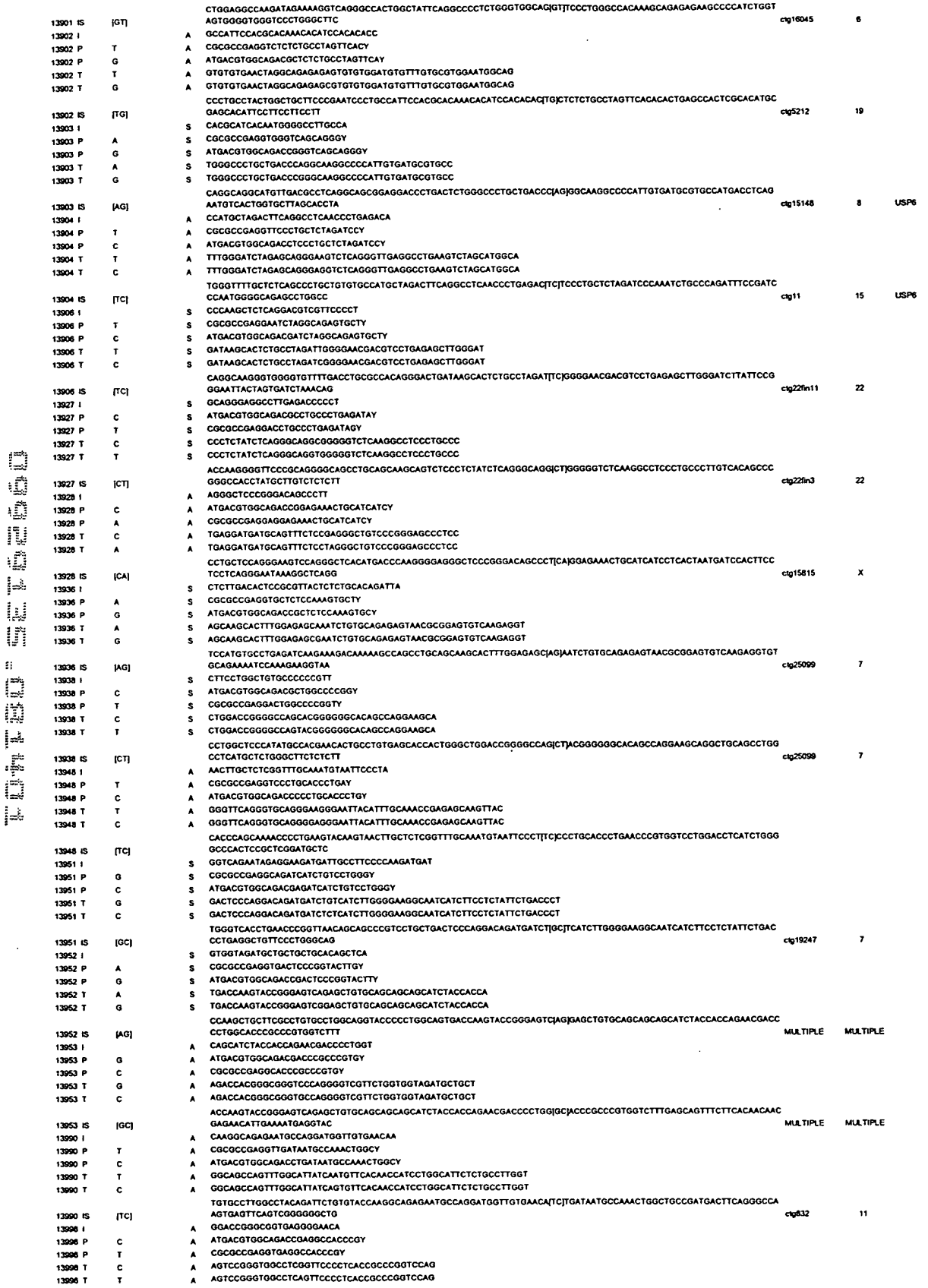

CTGGAGGCCAAGATAGAAAAGGTCAGGGCCACTGGCTATTCAGGCCCCTCTGGGTGGCAG[GT]TCCCTGGGCCACAAAGCAGAGAGAAGCCCCATCTGGT
13901 tS [GT] AGTGGGGTGGGTCCCTGGGCTTC ctg16045 6
13902 I A GCCATTCCACGCACAAACACATCCACACACC
13902 P T A CGCGCCGAGGTCTCTCTGCCTAGTTCACY
13902 P G A ATGACGTGGCAGACGCTCTCTGCCTAGTTCAY
13902 T T A GTGTGTGAACTAGGCAGAGAGAGTGTGTGGATGTGTTTGTGCGTGGAATGGCAG
13902 T G A GTGTGTGAACTAGGCAGAGAGCGTGTGTGGATGTGTTTGTGCGTGGAATGGCAG
CCCTGCCTACTGGCTGCTTCCCGAATCCCTGCCATTCCACGCACAAACACATCCACACAC[TG]CTCTCTGCCTAGTTCACACACTGAGCCACTCGCACATGC
13902 tS [TG] GAGCACATTCCTTCCTTCCTT ctg5212 19
13903 I S CACGCATCACAATGGGGCCTTGCCA
13903 P A S CGCGCCGAGGTGGGTCAGCAGGGY
13903 P G S ATGACGTGGCAGACCGGGTCAGCAGGGY
13903 T A S TGGGCCCTGCTGACCCAGGCAAGGCCCCATTGTGATGCGTGCC
13903 T G S TGGGCCCTGCTGACCCGGGCAAGGCCCCATTGTGATGCGTGCC
CAGGCAGGCATGTTGACGCCTCAGGCAGCGGAGGACCCTGACTCTGGGCCCTGCTGACCC[AG]GGCAAGGCCCCATTGTGATGCGTGCCATGACCTCAG
13903 tS [AG] AATGTCACTGGTGCTTAGCACCTA ctg15148 8 USP6
13904 I A CCATGCTAGACTTCAGGCCTCAACCCTGAGACA
13904 P T A CGCGCCGAGGTTCCCTGCTCTAGATCCY
13904 P C A ATGACGTGGCAGACCTCCCTGCTCTAGATCCY
13904 T T A TTTGGGATCTAGAGCAGGGAAGTCTCAGGGTTGAGGCCTGAAGTCTAGCATGGCA
13904 T C A TTTGGGATCTAGAGCAGGGAGGTCTCAGGGTTGAGGCCTGAAGTCTAGCATGGCA
TGGGTTTTGCTCTCAGCCCTGCTGTGTGCCATGCTAGACTTCAGGCCTCAACCCTGAGAC[TC]TCCCTGCTCTAGATCCCAAATCTGCCCAGATTTCCGATC
13904 tS [TC] CCAATGGGGCAGAGCCTGGCC ctg11 15 USP6
13906 I S CCCAAGCTCTCAGGACGTCGTTCCCCT
13906 P T S CGCGCCGAGGAATCTAGGCAGAGTGCTY
13906 P C S ATGACGTGGCAGACGATCTAGGCAGAGTGCTY
13906 T T S GATAAGCACTCTGCCTAGATTGGGGAACGACGTCCTGAGAGCTTGGGAT
13906 T C S GATAAGCACTCTGCCTAGATCGGGGAACGACGTCCTGAGAGCTTGGGAT
CAGGCAAGGGTGGGGTGTTTTGACCTGCGCCACAGGGACTGATAAGCACTCTGCCTAGAT[TC]GGGGAACGACGTCCTGAGAGCTTGGGATCTTATTCCG
13906 tS [TC] GGAATTACTAGTGATCTAAACAG ctg22fin11 22
13927 I S GCAGGGAGGCCTTGAGACCCCCT
13927 P C S ATGACGTGGCAGACGCCTGCCCTGAGATAY
13927 P T S CGCGCCGAGGACCTGCCCTGAGATAGY
13927 T C S CCCTCTATCTCAGGGCAGGCGGGGGTCTCAAGGCCTCCCTGCCC
13927 T T S CCCTCTATCTCAGGGCAGGTGGGGGTCTCAAGGCCTCCCTGCCC
ACCAAGGGGTTCCCGCAGGGGCAGCCTGCAGCAAGCAGTCTCCCTCTATCTCAGGGCAGG[CT]GGGGGTCTCAAGGCCTCCCTGCCCTTGTCACAGCCC
13927 tS [CT] GGGCCACCTATGCTTGTCTCTCTT ctg22fin3 22
13928 I A AGGGCTCCCGGGACAGCCCTT
13928 P C A ATGACGTGGCAGACCGGAGAAACTGCATCATCY
13928 P A A CGCGCCGAGGAGGAGAAACTGCATCATCY
13928 T C A TGAGGATGATGCAGTTTCTCCGAGGGCTGTCCCGGGAGCCCTCC
13928 T A A TGAGGATGATGCAGTTTCTCCTAGGGCTGTCCCGGGAGCCCTCC
CCTGCTCCAGGGAAGTCCAGGGCTCACATGACCCAAGGGGAGGGCTCCCGGGACAGCCCT[CA]GGAGAAACTGCATCATCCTCACTAATGATCCACTTCC
13928 tS [CA] TCCTCAGGGAATAAAGGCTCAGG ctg15815 X
13936 I S CTCTTGACACTCCGCGTTACTCTCTGCACAGATTA
13936 P A S CGCGCCGAGGTGCTCTCCAAAGTGCTY
13936 P G S ATGACGTGGCAGACCGCTCTCCAAAGTGCY
13936 T A S AGCAAGCACTTTGGAGAGCAATCTGTGCAGAGAGTAACGCGGAGTGTCAAGAGGT
13936 T G S AGCAAGCACTTTGGAGAGCGAATCTGTGCAGAGAGTAACGCGGAGTGTCAAGAGGT
TCCATGTGCCTGAGATCAAGAAAGACAAAAAGCCAGCCTGCAGCAAGCACTTTGGAGAGC[AG]AATCTGTGCAGAGAGTAACGCGGAGTGTCAAGAGGTGT
13936 tS [AG] GCAGAAAATCCAAAGAAGGTAA ctg25099 7
13938 I S CTTCCTGGCTGTGCCCCCCGTT
13938 P C S ATGACGTGGCAGACGCTGGCCCCGGY
13938 P T S CGCGCCGAGGACTGGCCCCGGTY
13938 T C S CTGGACCGGGGCCAGCACGGGGGGCACAGCCAGGAAGCA
13938 T T S CTGGACCGGGGCCAGTACGGGGGGCACAGCCAGGAAGCA
CCTGGCTCCCATATGCCACGAACACTGCCTGTGAGCACCACTGGGCTGGACCGGGGCCAG[CT]ACGGGGGGCACAGCCAGGAAGCAGGCTGCAGCCTGG
13938 tS [CT] CCTCATGCTCTGGGCTTCTCTCTT ctg25099 7
13948 I A AACTTGCTCTCGGTTTGCAAATGTAATTCCCTA
13948 P T A CGCGCCGAGGTCCCTGCACCCTGAY
13948 P C A ATGACGTGGCAGACCCCCTGCACCCTGY
13948 T T A GGGTTCAGGGTGCAGGGAAGGGAATTACATTTGCAAACCGAGAGCAAGTTAC
13948 T C A GGGTTCAGGGTGCAGGGGAGGGAATTACATTTGCAAACCGAGAGCAAGTTAC
CACCCAGCAAAACCCCTGAAGTACAAGTAACTTGCTCTCGGTTTGCAAATGTAATTCCCT[TC]CCCTGCACCCTGAACCCGTGGTCCTGGACCTCATCTGGG
13948 tS [TC] GCCCACTCCGCTCGGATGCTC ctg25099 7
13951 I S GGTCAGAATAGAGGAAGATGATTGCCTTCCCCAAGATGAT
13951 P G S CGCGCCGAGGCAGATCATCTGTCCTGGGY
13951 P C S ATGACGTGGCAGACGAGATCATCTGTCCTGGGY
13951 T G S GACTCCCAGGACAGATGATCTGTCATCTTGGGGAAGGCAATCATCTTCCTCTATTCTGACCCT
13951 T C S GACTCCCAGGACAGATGATCTCTCATCTTGGGGAAGGCAATCATCTTCCTCTATTCTGACCCT
TGGGTCACCTGAACCCGGTTAACAGCAGCCCGTCCTGCTGACTCCCAGGACAGATGATCT[GC]TCATCTTGGGGAAGGCAATCATCTTCCTCTATTCTGAC
13951 tS [GC] CCTGAGGCTGTTCCCTGGGCAG ctg19247 7
13952 I S GTGGTAGATGCTGCTGCTGCACAGCTCA
13952 P A S CGCGCCGAGGTGACTCCCGGTACTTGY
13952 P G S ATGACGTGGCAGACCGACTCCCGGTACTTY
13952 T A S TGACCAAGTACCGGGAGTCAGAGCTGTGCAGCAGCAGCATCTACCACCA
13952 T G S TGACCAAGTACCGGGAGTCGGAGCTGTGCAGCAGCAGCATCTACCACCA
CCAAGCTGCTTCGCCTGTGCCTGGCAGGTACCCCCTGGCAGTGACCAAGTACCGGGAGTC[AG]GAGCTGTGCAGCAGCAGCATCTACCACCAGAACGACC
13952 tS [AG] CCTGGCACCCGCCCGTGGTCTTT MULTIPLE MULTIPLE
13953 I A CAGCATCTACCACCAGAACGACCCCTGGT
13953 P G A ATGACGTGGCAGACGACCCGCCCGTGY
13953 P C A CGCGCCGAGGCACCCGCCCGTGY
13953 T G A AGACCACGGGCGGGTCCCAGGGGTCGTTCTGGTGGTAGATGCTGCT
13953 T C A AGACCACGGGCGGGTGCCAGGGGTCGTTCTGGTGGTAGATGCTGCT
ACCAAGTACCGGGAGTCAGAGCTGTGCAGCAGCAGCATCTACCACCAGAACGACCCCTGG[GC]ACCCGCCCGTGGTCTTTGAGCAGTTTCTTCACAACAAC
13953 tS [GC] GAGAACATTGAAAATGAGGTAC MULTIPLE MULTIPLE
13990 I A CAAGGCAGAGAATGCCAGGATGGTTGTGAACAA
13990 P T A CGCGCCGAGGTTGATAATGCCAAACTGGCY
13990 P C A ATGACGTGGCAGACCTGATAATGCCAAACTGGCY
13990 T T A GGCAGCCAGTTTGGCATTATCAATGTTCACAACCATCCTGGCATTCTCTGCCTTGGT
13990 T C A GGCAGCCAGTTTGGCATTATCAGTGTTCACAACCATCCTGGCATTCTCTGCCTTGGT
TGTGCCTTGGCCTACAGATTCTGTGTACCAAGGCAGAGAATGCCAGGATGGTTGTGAACA[TC]TGATAATGCCAAACTGGCTGCCGATGACTTCAGGGCCA
13990 tS [TC] AGTGAGTTCAGTCGGGGGGCTG ctg832 11
13998 I A GGACCGGGCGGTGAGGGGAACA
13998 P C A ATGACGTGGCAGACCGAGGCCACCCGY
13998 P T A CGCGCCGAGGTGAGGCCACCCGY
13998 T C A AGTCCGGGTGGCCTCGGTTCCCCTCACCGCCCGGTCCAG
13998 T T A AGTCCGGGTGGCCTCAGTTCCCCTCACCGCCCGGTCCAG

FIGURE 129E

13998 IS	[CT]		CAAGAGGAACGGCCTCCCCCCAACTTAGCGGGTTATGCTGGACCGGGCGGTGAGGGGAAC[CT]GAGGCCACCCGGACTTTCCGCGGCTGAGGGCAGCGC CGGTTCCTTGCGGTCAAGATGCTG	ctg832	11	BRD2
14000 I		A	GTGGGGTGTGTGGGGATGGCGTGT			
14000 P	G	A	ATGACGTGGCAGACGGGTGGGTTCTCGTTY			
14000 P	A	A	CGCGCCGAGGAGGTGGGTTCTCGTTCY			
14000 T	G	A	GTCAGAACGAGAACCCACCCCACGCCATCCCCACACACCCCACTC			
14000 T	A	A	GTCAGAACGAGAACCCACCTCACGCCATCCCCACACACCCCACTC			
14000 IS	[GA]		ACGTAGGAGGACTGTCAGGTGTGTGGGAAGCAAGGGAGTGGGGTGTGTGGGGATGGCGTG[GA]GGTGGGTTCTCGTTCTGACAGTTTCTGAGCCTCGAG GGTTTCTTCGGGGACAGGGAGGAC	ctg832	11	
14005 I		S	GGGCCCCGGACAGCCCCAAT			
14005 P	C	S	ATGACGTGGCAGACGCTCTGCTTCTCCCCY			
14005 P	T	S	CGCGCCGAGGACTCTGCTTCTCCCCY			
14005 T	C	S	TGTGGGGGAGAAGCAGAGCTTGGGGCTGTCCGGGGCCCTG			
14005 T	T	S	TGTGGGGGAGAAGCAGAGTTTGGGGCTGTCCGGGGCCCTG			
14005 IS	[CT]		GGGGCAGTGTCTGGAGGGCCATGCCTGCCAGAGACTCAGGGGTGTGGGGGAGAAGCAGAG[CT]TTGGGGCTGTCCGGGGCCCTGGAACAGCGGTGCAG GCCTCCAGGACAACTGTGTGCCCCA	ctg45	8	
14011 I		A	CCTAGAGGTGAAGGGATGGTCTGTGGTTCATGAT			
14011 P	A	A	CGCGCCGAGGAATATTGAAATCATTATCTGGAGACY			
14011 P	C	A	ATGACGTGGCAGACCATATTGAAATCATTATCTGGAGACY			
14011 T	A	A	TGTGGTCTCCAGATAATGATTTCAATATTTCATGAACCACAGACCATCCCTTCACCTCTAGGGG			
14011 T	C	A	TGTGGTCTCCAGATAATGATTTCAATATGTCATGAACCACAGACCATCCCTTCACCTCTAGGGG			
14011 IS	[AC]		TCTTGTGTTCATCAGTGAAAATTTGCCCCTAGAGGTGAAGGGATGGTCTGTGGTTCATGA[AC]ATATTGAAATCATTATCTGGAGACCACAGGTGACAATGG GATGTTTACCTCAATGTCCAA	MULTIPLE	MULTIPLE	
14066 I		A	GCCCTCAGCAGACCAGGGGACCAA			
14066 P	T	A	CGCGCCGAGGTGTGTCCTGAGTGCCY			
14066 P	C	A	ATGACGTGGCAGACCGTGTCCTGAGTGCCY			
14066 T	T	A	AGGGGGCACTCAGGACACATGGTCCCCTGGTCTGCTGAGGGCTG			
14066 T	C	A	AGGGGGCACTCAGGACACGTGGTCCCCTGGTCTGCTGAGGGCTG			
14066 IS	[TC]		CAGCTGTCCCGATCAGTGACAGGCAGGCCTGCTGTCAGCCCTCAGCAGACCAGGGGACCA[TC]GTGTCCTGAGTGCCCCCTGTTCACCTTGCTGGTGAGG GAGGCTCTGTCACCCTAGATAGG	ctg16291	9	
14072 I		A	CCCAAATACACACAGACACACACACACACACT			
14072 P	G	A	ATGACGTGGCAGACGGACACACACACACCY			
14072 P	A	A	CGCGCCGAGGAGACACACACACACCCY			
14072 T	G	A	AAAAGGGTGTGTGTGTGTCCGTGTGTGTGTGTGTCTGTGTGTATTTGGGAG			
14072 T	A	A	AAAAGGGTGTGTGTGTGTCTGTGTGTGTGTGTCTGTGTGTATTTGGGAG			
14072 IS	[GA]		GCGCCCAGCCGTCTTATATAATTTTATCTCCCAAATACACACAGACACACACACACACACACACACACACACACACACCCTTTTCCCTGGGTCACTGTTGGAACT AACGTAAAGCGGCTGTGCTG	ctg25099	7	
14093 I		S	CCTTGTGACAGTGGGGGAGTTTGACCTTCAA			
14093 P	A	S	CGCGCCGAGGTTGTTGCTCTCCATTTCAAY			
14093 P	G	S	ATGACGTGGCAGACCTGTTGCTCTCCATTTCAY			
14093 T	A	S	TAGTTTGAAATGGAGAGCAACAATGAAGGTCAAACTCCCCCACTGTCACAAGGGA			
14093 T	G	S	TAGTTTGAAATGGAGAGCAACAGTGAAGGTCAAACTCCCCCACTGTCACAAGGGA			
14093 IS	[AG]		GTGGATTTATTGCCCAGCCTGCCCACGGAGCAGGTAATTAGTTTGAAATGGAGAGCAACA[AG]TGAAGGTCAAACTCCCCCACTGTCACAAGGGACAGTTT GTTCCCAACAATTTCTCTCATA	ctg13740	5	
14101 I		S	CCTCAGCTCTACTCACCTGACTGCCCCATTC			
14101 P	A	S	CGCGCCGAGGTGTCACTCTCCGAGGAY			
14101 P	C	S	ATGACGTGGCAGACGGTCACTCTCCGAGGY			
14101 T	A	S	TGTGTCCTCGGAGAGTGACAAATGGGGCAGTCAGGTGAGTAGAGCTGAGGCC			
14101 T	C	S	TGTGTCCTCGGAGAGTGACCAATGGGGCAGTCAGGTGAGTAGAGCTGAGGCC			
14101 IS	[AC]		GATGCCTTCTAGTTTCAGGGAGTTCCTGTAGCTTTGATCTTTGTGTCCTCGGAGAGTGAC[AC]AATGGGGCAGTCAGGTGAGTAGAGCTGAGGCCATGAAG GCAGCCTTCTACCTTTTCCTCC			
14103 I		A	CGTCTTCTTTGGTATATTCCACATGTTTATCTATCAGGCTATCTATAAATT			
14103 P	C	A	CGCGCCGAGGCCTTCTGGTTCCCTCTTY			
14103 P	G	A	ATGACGTGGCAGACGCTTCTGGTTCCCTCTY			
14103 T	C	A	AGTGAAGAGGGAACCAGAAGGATTTATAGATAGCCTGATAGATAAACATGTGGAATATACCAAAGAAGACGAC			
14103 T	G	A	AGTGAAGAGGGAACCAGAAGCATTTATAGATAGCCTGATAGATAAACATGTGGAATATACCAAAGAAGACGAC			
14103 IS	[CG]		CTTTTGGAGTCGTCTTCTTTGGTATATTCCACATGTTTATCTATCAGGCTATCTATAAAT[CG]CTTCTGGTTCCCTCTTCACTGGATGAGACACACTTGATTCT GGCATGATGCAGAGGTCAC	ctg16114	X	
14115 I		A	CCAAGCCCAGGTGCAGGGGAGGT			
14115 P	G	A	ATGACGTGGCAGACGGCCAGCAGCACAY			
14115 P	A	A	CGCGCCGAGGAGCCAGCAGCACAY			
14115 T	G	A	GCCCTGTGCTGCTGGCCCCTCCCCTGCACCTGGGCTTGGAT			
14115 T	A	A	GCCCTGTGCTGCTGGCTCCTCCCCTGCACCTGGGCTTGGAT			
14115 IS	[GA]		GCTCACCCCCACCTCAGAAAAGCCACTGTCCCTCCCATCCAAGCCCAGGTGCAGGGGAGG[GA]GCCAGCAGCACAGGGCGGCCACCTACCCACGCAATCC TTCCGGTTCCAGTGGAGCCGCCT	ctg832	11	
14122 I		A	GGAGTAAGCCCCGGCTGGGAACACACC			
14122 P	T	A	CGCGCCGAGGTGTCTCAACCTGCTGCY			
14122 P	A	A	ATGACGTGGCAGACAGTCTCAACCTGCTGCY			
14122 T	T	A	TCCAGCAGCAGGTTGAGACAGTGTGTTCCCAGCCGGGGCTTACTCCTC			
14122 T	A	A	TCCAGCAGCAGGTTGAGACTGTGTGTTCCCAGCCGGGGCTTACTCCTC			
14122 IS	[TA]		GGGTGGTCTGCTTTTCCGGTTGAAGTGGTGGTGAGGAGTAAGCCCCGGCTGGGAACACAC[TA]GTCTCAACCTGCTGCTGGACCCATCCCCCTCTGTGTC CACATTATCTCAAACACAGCCAG	ctg17004	X	
14133 I		A	CCCTAAGAATGATTTCCTGTTTCTTTTGCCTTTTACATTCATTTTGGGGC			
14133 P	T	A	CGCGCCGAGGTTCCTCATGAAGACTTGTGY			
14133 P	G	A	ATGACGTGGCAGACGTCCTCATGAAGACTTGTGY			
14133 T	T	A	CTGTCACAAGTCTTCATGAGGAACCCCAAAATGAATGTAAAAGGCAAAAGAAACAGGAAATCATTCTTAGGGAA			
14133 T	G	A	CTGTCACAAGTCTTCATGAGGACCCCCAAAATGAATGTAAAAGGCAAAAGAAACAGGAAATCATTCTTAGGGAA			
14133 IS	[TG]		AAAAGCAGCTTCCCTAAGAATGATTTCCTGTTTCTTTTGCCTTTTACATTCATTTTGGGG[TG]TCCTCATGAAGACTTGTGACAGAACTAAAAGACCTTTCTAA GAACATCATGAATGGGAGA	ctg17004	X	
14141 I		A	GCAGTAAGCCATTTTAGTCATGACTGAAGGCTGAGTTAAGTGATT			
14141 P	G	A	ATGACGTGGCAGACGTAGTCATGAACTTAGCACAY			
14141 P	C	A	CGCGCCGAGGCTAGTCATGAACTTAGCACAY			
14141 T	G	A	GCAGTGTGCTAAGTTCATGACTACATCACTTAACTCAGCCTTCAGTCATGACTAAAATGGCTTACTGCAA			
14141 T	C	A	GCAGTGTGCTAAGTTCATGACTAGATCACTTAACTCAGCCTTCAGTCATGACTAAAATGGCTTACTGCAA			
14141 IS	[GC]		TTCTGAACCCATGTTTGCAGTAAGCCATTTTAGTCATGACTGAAGGCTGAGTTAAGTGAT[GC]TAGTCATGAACTTAGCACACTGCCCAGATGTGAAAGTGG TACACCATCACCATCTTGGTC	ctg15508	17	
14143 I		A	GCCCAGATGTGAAAGTGGTACACCATCACCATCC			
14143 P	T	A	CGCGCCGAGGTTGGTCTGTGGTACTCCY			
14143 P	G	A	ATGACGTGGCAGACGTGGTCTGTGGTACTCCY			
14143 T	T	A	AAACGGAGTACCACAGACCAAGATGGTGATGGTGTACCACTTTCACATCTGGGCAG			
14143 T	G	A	AAACGGAGTACCACAGACCACGATGGTGATGGTGTACCACTTTCACATCTGGGCAG			
14143 IS	[TG]		GTGATGTAGTCATGAACTTAGCACACTGCCCAGATGTGAAAGTGGTACACCATCACCATC[TG]TGGTCTGTGGTACTCCGTTTCCCTAATGCTTCTTGGAGG CCTGCTTTATTTCCTTTTCTT	ctg14243	19	
14145 I		A	GGCCGGGTCTTGTTCAGCTGCAAAACAT			
14145 P	C	A	ATGACGTGGCAGACCAAGGATGCGGGCY			
14145 P	A	A	CGCGCCGAGGAAAGGATGCGGGCCY			
14145 T	C	A	AGTGGGCCCGCATCCTTGTGTTTTGCAGCTGAACAAGACCCGGCCCT			
14145 T	A	A	AGTGGGCCCGCATCCTTTTGTTTTGCAGCTGAACAAGACCCGGCCCT			

Filed: June 24, 2005

FIGURE 129E

				TCTTCCGGCTGGAGGACACATTTGGGAGGGCAGGGCCGGGTCTTGTTCAGCTGCAAAACA[CA]AAGGATGCGGGCCCACTCCATGCAGGACACTGAGTGC		
14145	IS	[CA]		CTGCCGTACACCCTGAACTGGCT	ctg17207	19
14159	I		A	GCATGCCTCTGTGGGCGTGTAGACACA		
14159	P	C	A	ATGACGTGGCAGACCGTGTGCCTCACCAY		
14159	P	T	A	CGCGCCGAGGTGTGTGCCTCACCAGY		
14159	T	C	A	GGCACTGGTGAGGCACACAGGTGTCTACACGCCCACAGAGGCATGCCC		
14159	T	T	A	GGCACTGGTGAGGCACACAGTGTCTACACGCCCACAGAGGCATGCCC		
				TGACCCCAGGGCGAGGTGGTACCATCTGAGCAGGGCATGCCTCTGTGGGCGTGTAGACAC[CT]GTGTGCCTCACCAGTGCCTTTCCCCACCCAGGTCATT		
14159	IS	[CT]		GCTGTGGTCATGGACCTCTTCAC	ctg16031	17
14162	I		A	CAAGTCCCTTTACCACTTTGTACCTCATGCCCCT		
14162	P	G	A	ATGACGTGGCAGACGGGACAGGGGCTGY		
14162	P	A	A	CGCGCCGAGGAGGACAGGGGCTGY		
14162	T	G	A	GATGCAGCCCCTGTCCCGGGGCATGAGGTACAAAGTGGTAAAGGGACTTGTG		
14162	T	A	A	GATGCAGCCCCTGTCCTGGGGCATGAGGTACAAAGTGGTAAAGGGACTTGTG		
				ACCTGGGGTTCACCTCCCTTAACCGTCACAAGTCCCTTTACCACTTTGTACCTCATGCCCC[GA]GGACAGGGGCTGCATCGTGCTGCCTTTGCAATGGCCCA		
14162	IS	[GA]		GGGCCCCCGCACGCAGAAGGGG	ctg22fin4	22
14176	I		A	ACGTTTTGTCAACTTCCTTTGTTGTCTTACTCATTTTGGT		
14176	P	G	A	ATGACGTGGCAGACGTCAAGAAGAAGTAAAATGGCY		
14176	P	A	A	CGCGCCGAGGATCAAGAAGAAGTAAAATGGCAY		
14176	T	G	A	GTTTTGCCATTTTACTTCTTCTTGACCCAAAATGAGTAAGACAACAAAGGAAGTTGACAAAACGTTG		
14176	T	A	A	GTTTTGCCATTTTACTTCTTCTTGATCCAAAATGAGTAAGACAACAAAGGAAGTTGACAAAACGTTG		
				AGAGAAAGCAGAGAAAGAACAACGTTTTGTCAACTTCCTTTGTTGTCTTACTCATTTTGG[GA]TCAAGAAGAAGTAAAATGGCAAAACAGACGCCTTGCCCCC		
14176	IS	[GA]		TCTGAGGTTCGAACTCAGGA	ctg19247	7
14191	I		S	CAGCACTGCAGATGCCCCTCTGCAC		
14191	P	T	S	CGCGCCGAGGAACGTGTGTATCTGGTGY		
14191	P	A	S	ATGACGTGGCAGACTACGTGTGTATCTGGTGGY		
14191	T	T	S	GGAACCACCAGATACACACGTTTGCAGAGGGGCATCTGCAGTGCTGGA		
14191	T	A	S	GGAACCACCAGATACACACGTATGCAGAGGGGCATCTGCAGTGCTGGA		
				GGTCAAATGGACTCCCTTGCTGAAGGCCTGCTCTAGCTAGGAACCACCAGATACACACGT[TA]TGCAGAGGGGCATCTGCAGTGCTGGAAATGAGCATGAT		
14191	IS	[TA]		TCCCCAAGGAAGACCCCTCCAT		
14203	I		A	CCCAGTGAAGAGTTCTGTGCCCGGTTGAAC		
14203	P	T	A	CGCGCCGAGGTGCCCGCGGTTATTY		
14203	P	A	A	ATGACGTGGCAGACAGCCCGCGGTTATTY		
14203	T	T	A	TGGTAATAACCGCGGGCATTCAACCGGGCACAGAACTCTTCACTGGGGT		
14203	T	A	A	TGGTAATAACCGCGGGCTTTCAACCGGGCACAGAACTCTTCACTGGGGT		
				CCCGGAGGGGCTGAGACGTGCCTGAAATGACCCCAGTGAAGAGTTCTGTGCCCGGTTGAA[TA]GCCCGCGGTTATTACCACAGCCCCTTCCTTCATTTCTT		
14203	IS	[TA]		ACTGGTCACACCTGCAAATTCC	ctg17403	17
14205	I		S	CCCCTATGCATCCTGCTCTCTCTCCCCT		
14205	P	G	S	CGCGCCGAGGCTGCCCTTCACCTCAY		
14205	P	C	S	ATGACGTGGCAGACGTGCCCTTCACCTCAY		
14205	T	G	S	CCGTTGAGGTGAAGGGCAGGGGGAGAGAGAGCAGGATGCATAGGGGCC		
14205	T	C	S	CCGTTGAGGTGAAGGGCACGGGGAGAGAGAGCAGGATGCATAGGGGCC		
				TAAATCATGGAGTCCATTGGAGCCCACAGGGAGAAGAAAATACCGTTGAGGTGAAGGGCA[GC]GGGGAGAGAGAGCAGGATGCATAGGGGCCTGCCTGG		
14205	IS	[GC]		GCAAGCCTCGCGTCTCAGAGCCAG	ctg15944	11
14212	I		A	TGCGCCCATCATGACTTTAGGCGCTATAATATATATCCAGTT		
14212	P	A	A	CGCGCCGAGGAAGTGCCGTTCCCTTY		
14212	P	G	A	ATGACGTGGCAGACGAGTGCCGTTCCCTY		
14212	T	A	A	ATGAAAGGGAACGGCACTTACTGGATATATATTATAGCGCCTAAAGTCATGATGGGCGCAGT		
14212	T	G	A	ATGAAAGGGAACGGCACTCACTGGATATATATTATAGCGCCTAAAGTCATGATGGGCGCAGT		
				TTGACCAGTGACTACCTACTGCGCCCATCATGACTTTAGGCGCTATAATATATATCCAGT[AG]AGTGCCGTTCCCTTTCATATAGTCCCTTTGGAAGCCCACC		
14212	IS	[AG]		CAGATATTCTAATAATATTG	ctg15944	11
14214	I		S	CCCCTACAGCGCACCCCGCTT		
14214	P	C	S	ATGACGTGGCAGACGGGAGCCGGCACY		
14214	P	T	S	CGCGCCGAGGAGGAGCCGGCACY		
14214	T	C	S	AGCGGTGCCGGCTCCCAGCGGGGTGCGCTGTAGGGGCC		
14214	T	T	S	AGCGGTGCCGGCTCCTAGCGGGGTGCGCTGTAGGGGCC		
				GCCCGCGGGGAAGGGTCCTGTTATCCCTGGAGCACCACTGGACTGAGCGGTGCCGGCTCC[CT]AGCGGGGTGCGCTGTAGGGGCCCCGACAACCCTCA		
14214	IS	[CT]		GTGCGGAGGTCACAGAATTATCAGG	ctg832	11
14218	I		S	AGCATTTCTTTTCAGTGAATTTTTGATTTGCTGTAATCTTAAATGTCTTAAAAT		
14218	P	C	S	ATGACGTGGCAGACGGTTCACATACTATTAATCTATCAGY		
14218	P	T	S	CGCGCCGAGGAGTTCACATACTATTAATCTATCAGCY		
14218	T	C	S	AGCTGCTGATAGATTAATAGTATGTGAACCTTTTTAAGACATTTAAGATTACAGCAAATCAAAAATTCACTGAAAAGAAATGCTTT		
14218	T	T	S	AGCTGCTGATAGATTAATAGTATGTGAACTTTTTAAGACATTTAAGATTACAGCAAATCAAAAATTCACTGAAAAGAAATGCTTT		
				GAAAAATATTTTTAGGATTTTTTTTCCTTTTAGCTGCTGATAGATTAATAGTATGTGAAC[CT]TTTTTAAGACATTTAAGATTACAGCAAATCAAAAATTCACTGAA		
14218	IS	[CT]		AAGAAATGCTTTTGTGT	ctg832	11
14219	I		S	AGAACCTAGGGAAAAAAGAGGAGGAAAGTTTGGTTACTTGAAACATAGTAAAAT		
14219	P	C	S	ATGACGTGGCAGACGAGACATGCCCTTATCTACY		
14219	P	T	S	CGCGCCGAGGAAGACATGCCCTTATCTACTY		
14219	T	C	S	ATAAAGTAGATAAGGGCATGTCTCTTTTACTATGTTTCAAGTAACCAAACTTTCCTCCTCTTTTTTCCCTAGGTTCTTG		
14219	T	T	S	ATAAAGTAGATAAGGGCATGTCTTTTTTACTATGTTTCAAGTAACCAAACTTTCCTCCTCTTTTTTCCCTAGGTTCTTG		
				CACTGAAAAGAAATGCTTTTGTGTGTAAGTGGTGCCTATAAAGTAGATAAGGGCATGTC[CT]TTTTACTATGTTTCAAGTAACCAAACTTTCCTCCTCTTTTT		
14219	IS	[CT]		TCCCTAGGTTCTTGATTAT	ctg25002	17
14235	I		S	GGTCACTGACTTCGCCACCTGCGATGAGA		
14235	P	A	S	CGCGCCGAGGTTCATCCAGGTGTGGGY		
14235	P	G	S	ATGACGTGGCAGACCTCATCCAGGTGTGGGY		
14235	T	A	S	CCGCCCCACACCTGGATGAACTCATCGCAGGTGGCGAAGTCAGTGACCAA		
14235	T	G	S	CCGCCCCACACCTGGATGAGCTCATCGCAGGTGGCGAAGTCAGTGACCAA		
				ACTAGATGGAGCCCGCCCACCAGCCAAGCCCTGGGCACCCCCCGCCCCACACCTGGATGA[AG]CTCATCGCAGGTGGCGAAGTCAGTGACCAAGAAGTTG		
14235	IS	[AG]		CGTCCGTCAGGCCAGCGGGTCAG	ctg25002	17
14252	I		A	CCTCTGGGGTGCTTGGCAAACACTATGAGCT		
14252	P	G	A	ATGACGTGGCAGACGTCCTTGCATTTTAAGAAGCY		
14252	P	A	A	CGCGCCGAGGATCCTTGCATTTTAAGAAGCY		
14252	T	G	A	TGGAGCTTCTTAAAATGCAAGGACGCTCATAGTGTTTGCCAAGCACCCCAGAGGGT		
14252	T	A	A	TGGAGCTTCTTAAAATGCAAGGATGCTCATAGTGTTTGCCAAGCACCCCAGAGGGT		
				CCTTGGGGATGGCAGGGGCTCTCCCTGCACCCTCTGGGGTGCTTGGCAAACACTATGAGC[GA]TCCTTGCATTTTAAGAAGCTCCAGAGAGAAGCTCTAAG		
14252	IS	[GA]		GTGGTACATTTTGTGTGTGCTA	ctg25002	17
14257	I		A	GCTGGCACTCAGTCTGGCAGTCTATGGCTTTAATC		
14257	P	T	A	CGCGCCGAGGTATAAGGTGCTGCATATTAAACAY		
14257	P	G	A	ATGACGTGGCAGACGATAAGGTGCTGCATATTAAACY		
14257	T	T	A	CTTCTGTTTAATATGCAGCACCTTATAATTAAAGCCATAGACTGCCAGACTGAGTGCCAGCCA		
14257	T	G	A	CTTCTGTTTAATATGCAGCACCTTATCATTAAAGCCATAGACTGCCAGACTGAGTGCCAGCCA		
				CCACTGTGTCTCTCTTCCCCTTCCTGGCTGGCACTCAGTCTGGCAGTCTATGGCTTTAAT[TG]ATAAGGTGCTGCATATTAAACAGAAGAACTGGCCGGAAT		
14257	IS	[TG]		CCAGCATTTTGGAAACTATCG	ctg17207	19
14262	I		S	CCCCACTGGTGTCTCTTCCTCTTCATGTAAAGACAC		
14262	P	A	S	CGCGCCGAGGTCAGTCCCATCAGATCAGY		
14262	P	T	S	ATGACGTGGCAGACACAGTCCCATCAGATCAGY		
14262	T	A	S	GGCTCTGATCTGATGGGACTGATGTCTTTACATGAAGAGGAAGAGACACCAGTGGGGCT		
14262	T	T	S	GGCTCTGATCTGATGGGACTGTTGTCTTTACATGAAGAGGAAGAGACACCAGTGGGGCT		

FIGURE 129E

				GTAGGAGATAATTGAGGTTAAATAAGGTCACTAGGGCTGGGCTCTGATCTGATGGGACTG[AT]TGTCTTTACATGAAGAGGAAGAGACACCAGTGGGGCTC			
14262	IS	[AT]		TTGTCTGGGGAAAAGGCAGAGT	ctg2846	11	
14274	I		S	CCCCCGTATTCTGCATTGGTCATTTTGCCTCACC			
14274	P	C	S	ATGACGTGGCAGACGCCAAACAGAAGGCAAY			
14274	P	A	S	CGCGCCGAGGTCCAAACAGAAGGCAAAGY			
14274	T	C	S	CTAACTTTGCCTTCTGTTTGGCGTGAGGCAAAATGACCAATGCAGAATACGGGGGTG			
14274	T	A	S	CTAACTTTGCCTTCTGTTTGGAGTGAGGCAAAATGACCAATGCAGAATACGGGGGTG			
14274	IS	[CA]		AAAGTCAGGAGACTTGGCTTTCAGGCTTAACAGCAAATTCTAACTTTGCCTTCTGTTTGG[CA]GTGAGGCAAAATGACCAATGCAGAATACGGGGGTGTGGA GCCCATTGTTTCTGGACAACT			
14277	I		S	CCATCTCCTTTTGTCTTTGAGAGCCTTTACCACTGAAAAAACAAA			
14277	P	G	S	ATGACGTGGCAGACCGGCTAGTGTTTGAGTGY			
14277	P	A	S	CGCGCCGAGGTGGCTAGTGTTTGAGTGAY			
14277	T	G	S	GTTATCACTCAAACACTAGCCGTTGTTTTTTCAGTGGTAAAGGCTCTCAAAGACAAAAGGAGATGGTA			
14277	T	A	S	GTTATCACTCAAACACTAGCCATTGTTTTTTCAGTGGTAAAGGCTCTCAAAGACAAAAGGAGATGGTA			
14277	IS	[GA]		TTAATATATTAAAGTGCTTAGAACAGTGTCCGGCACAAAGTTATCACTCAAACACTAGCC[GA]TTGTTTTTTCAGTGGTAAAGGCTCTCAAAGACAAAAGGAG ATGGTAGATAAGAGTGAGAG	ctg3461	17	
14287	I		A	GGCTGCTCTGCAGAAGGGGCTGGAA			
14287	P	T	A	CGCGCCGAGGTGGTCACGCTCCGY			
14287	P	C	A	ATGACGTGGCAGACCGGTCACGCTCCGY			
14287	T	T	A	GCCACGGAGCGTGACCATCCAGCCCCTTCTGCAGAGCAGCCAA			
14287	T	C	A	GCCACGGAGCGTGACCGTCCAGCCCCTTCTGCAGAGCAGCCAA			
14287	IS	[TC]		ACAGCAGACCAGAGGAGGCATTGAAGCTCTGGTTTTGGCTGCTCTGCAGAAGGGGCTGGA[TC]GGTCACGCTCCGTGGCCTGCAAGCTGCCGAGAGGACA AGGGGTTTGGCTGGAGGAAAGTC	ctg15140	12	
14293	I		S	CCACTCAGCTGGGCTGTATTTTCCCCACATA			
14293	P	G	S	ATGACGTGGCAGACCAATTCTTTGTGCAGGGGY			
14293	P	A	S	CGCGCCGAGGTAATTCTTTGTGCAGGGGY			
14293	T	G	S	ATCACCCCTGCACAAAGAATTGATGTGGGGAAAATACAGCCCAGCTGAGTGGTC			
14293	T	A	S	ATCACCCCTGCACAAAGAATTAATGTGGGGAAAATACAGCCCAGCTGAGTGGTC			
14293	IS	[GA]		AACCTATGAAGAACTGCACCTCTTCAATCCCATTCCCCAATCACCCCTGCACAAAGAATT[GA]ATGTGGGGAAAATACAGCCCAGCTGAGTGGTCCAAAACT GTGGTCCTGGGACCAGCAGCT	ctg15944	11	
14300	I		A	GCGTCCCCCTGCCTCAGGGAAGT			
14300	P	C	A	CGCGCCGAGGCCCCTCGCCTTGCY			
14300	P	G	A	ATGACGTGGCAGACGCCCTCGCCTTGCY			
14300	T	C	A	CATGGCAAGGCGAGGGGCTTCCCTGAGGCAGGGGGACGCCC			
14300	T	G	A	CATGGCAAGGCGAGGGCCTTCCCTGAGGCAGGGGGACGCCC			
14300	IS	[CG]		TCCGGCCAGCCCTCTCCTCTCCTTGCCGGCTCCTCTGGGCGTCCCCCTGCCTCAGGGAAG[CG]CCCTCGCCTTGCCATGCTCACCCCTCGCCTGGCATCT CTTCCATGACCTTCTCTTCCCAG	ctg15944	11	
14305	I		A	CGTCAAATCATCTTTTCATGATCCCAAGCTGAAAGGCAAC			
14305	P	G	A	ATGACGTGGCAGACGCCCTCCAGAGAGCY			
14305	P	T	A	CGCGCCGAGGTCCCTCCAGAGAGCGY			
14305	T	G	A	ATAACGCTCTCTGGAGGGCTTGCCTTTCAGCTTGGGATCATGAAAAGATGATTTGACGCT			
14305	T	T	A	ATAACGCTCTCTGGAGGGATTGCCTTTCAGCTTGGGATCATGAAAAGATGATTTGACGCT			
14305	IS	[GT]		GTCGGAGACCATGAGAAACAGCGTCAAATCATCTTTTCATGATCCCAAGCTGAAAGGCAA[GT]CCCTCCAGAGAGCGTTATGTGACCCACAACCGAGCACAT TGGTGACAGACCTTCGGGGCC	ctg15944	11	EDN1
14307	I		A	TGGAGCCTGTCACAAAATGCCTGTCTGCAT			
14307	P	C	A	CGCGCCGAGGCTCATGCTCTCCCTGAAY			
14307	P	G	A	ATGACGTGGCAGACGTCATGCTCTCCCTGAY			
14307	T	C	A	GCATTTCAGGGAGAGCATGAGTGCAGACAGGCATTTTGTGACAGGCTCCAGG			
14307	T	G	A	GCATTTCAGGGAGAGCATGACTGCAGACAGGCATTTTGTGACAGGCTCCAGG			
14307	IS	[CG]		TTGAGCCACTGAGGACTGGAGGAAGGGCCCCTGGAGCCTGTCACAAAATGCCTGTCTGCA[CG]TCATGCTCTCCCTGAAATGCCACAGATCAGACAAGCAC CTTGCCCTGGTCATGAAGGCCC	ctg15064	7	
14311	I		A	CCAAACCCCGACAACTGGGGTAGCCAT			
14311	P	G	A	ATGACGTGGCAGACGAAGCACTGCTTAGTGTAGY			
14311	P	C	A	CGCGCCGAGGCAAGCACTGCTTAGTGTAGY			
14311	T	G	A	TCTGCTACACTAAGCAGTGCTTCTGGCTACCCCAGTTGTCGGGGTTTGGGG			
14311	T	C	A	TCTGCTACACTAAGCAGTGCTTGTGGCTACCCCAGTTGTCGGGGTTTGGGG			
14311	IS	[GC]		ACCAAGTGAGCTTGCCCCTTTGCACCTCAACACCCCAAACCCCGACAACTGGGGTAGCCA[GC]AAGCACTGCTTAGTGTAGCAGATGGTCCGGGGGTGGG GCAGATGGGGGATTCTGGAACTC	ctg15064	7	
14312	I		A	ACTGAGTACCTGCCATGTAAGCTTCAAAAGACATA			
14312	P	C	A	ATGACGTGGCAGACCACCTCCTTGGACCTTY			
14312	P	T	A	CGCGCCGAGGTACCTCCTTGGACCTTTACY			
14312	T	C	A	TGTTGTAAAGGTCCAAGGAGGTGATGTCTTTTGAAGCTTACATGGCAGGTACTCAGTTT			
14312	T	T	A	TGTTGTAAAGGTCCAAGGAGGTAATGTCTTTTGAAGCTTACATGGCAGGTACTCAGTTT			
14312	IS	[CT]		TAGAGGCAGACAGGGAACCAGTATAAACTGAGTACCTGCCATGTAAGCTTCAAAAGACAT[CT]ACCTCCTTGGACCTTTACAACAACCCTATTCCCATTTAAG AAGTTAAATCACTTGGCCCA	ctg15907	6	
14314	I		A	ACAGCAGGCAGGACCCCACCTGTCT			
14314	P	A	A	CGCGCCGAGGACCTGGGAACTTGCAY			
14314	P	C	A	ATGACGTGGCAGACCCCTGGGAACTTGCAY			
14314	T	A	A	TACTTGCAAGTTCCCAGGTGACAGGTGGGGTCCTGCCTGCTGTTG			
14314	T	C	A	TACTTGCAAGTTCCCAGGGGACAGGTGGGGTCCTGCCTGCTGTTG			
14314	IS	[AC]		AATAGTTTGAATTAAAAGTCGGCATTCGTTGTCACAACAGCAGGCAGGACCCCACCTGTC[AC]CCTGGGAACTTGCAAGTATGAACTCTGGGGCTGGACTG GGGTAGGGGAGTAACTGTCTCT	ctg15907	6	
14322	I		S	GCAAACACCGGTCCGTGTCGCCCT			
14322	P	C	S	ATGACGTGGCAGACGTGTGGCTGCTCCAY			
14322	P	T	S	CGCGCCGAGGATGTGGCTGCTCCAAY			
14322	T	C	S	CATCTTGGAGCAGCCACACGGGCGACACGGACCGGTGTTTGCAT			
14322	T	T	S	CATCTTGGAGCAGCCACATGGGCGACACGGACCGGTGTTTGCAT			
14322	IS	[CT]		GCATCTCGGAGCAGCCACACGGGCGACACGCACCGGTGTTTGCATCTTGGAGCAGCCACA[CT]GGGCGACACGGACCGGTGTTTGCATCTCGGAGCAGC CACACGGCTGACACGGACCGGGGT	ctg13206	14	
14335	I		S	GAATGCACAGAGCCCTGGGACACCTTCATT			
14335	P	T	S	CGCGCCGAGGAAATGTTAATACCATCATCATTGTY			
14335	P	C	S	ATGACGTGGCAGACGAATGTTAATACCATCATCATTGTY			
14335	T	T	S	TGGGACAATGATGATGGTATTAACATTTATGAAGGTGTCCCAGGGCTCTGTGCATTCTG			
14335	T	C	S	TGGGACAATGATGATGGTATTAACATTCATGAAGGTGTCCCAGGGCTCTGTGCATTCTG			
14335	IS	[TC]		CAACCTAGGTGGCCTTGGCATATTCTCTATTAGTGGGACAATGATGATGGTATTAACATTT[TC]ATGAAGGTGTCCCAGGGCTCTGTGCATTCTGGAGGCAGT GCCATGGACTAAATATATCCT	ctg13206	14	
14348	I		A	GATTCCACCTCTCTCTGGGTCCACTCTGTGAA			
14348	P	C	A	ATGACGTGGCAGACCGCCAAGCAGATGACY			
14348	P	T	A	CGCGCCGAGGTGCCAAGCAGATGACAY			
14348	T	C	A	GCTCTGTCATCTGCTTGGCGTCACAGAGTGGACCCAGAGAGAGGTGGAATCCC			
14348	T	T	A	GCTCTGTCATCTGCTTGGCATCACAGAGTGGACCCAGAGAGAGGTGGAATCCC			
14348	IS	[CT]		AGCGGCTTTTCTCTCCTCTTTCCAGAGGGGATTCCACCTCTCTCTGGGTCCACTCTGTGA[CT]GCCAAGCAGATGACAGAGCAGGGATTAAGGAGGGAAGG AAGGATTAAAAAAATTTAACAT	ctg25099	7	
14349	I		S	GTGTAAATCACTCAACGGAGGCCGTGGTTCTGA			
14349	P	A	S	CGCGCCGAGGTCTCATCTTCAGCTATAGAAAGY			
14349	P	G	S	ATGACGTGGCAGACCCTCATCTTCAGCTATAGAAAGY			
14349	T	A	S	GGAACTTTCTATAGCTGAAGATGAGACAGAACCACGGCCTCCGTTGAGTGATTTACACGG			
14349	T	G	S	GGAACTTTCTATAGCTGAAGATGAGGCAGAACCACGGCCTCCGTTGAGTGATTTACACGG			

FIGURE 129E

				CGCTTCTTTTCATTTCCTCTCCTGATGAGAAAATGGGAACTTTCTATAGCTGAAGATGAG[AG]CAGAACCACGGCCTCCGTTGAGTGATTTACACGGATGAT			
14349	tS	[AG]		CTCACCTCTGGCCGTGCCAGC	ctg22fin4	22	
14354	I		S	GAATGAAAGCATACACAGGCTCATGCACATTCACCTCA			
14354	P	A	S	CGCGCCGAGGTGCACGTTGGAGCCY			
14354	P	G	S	ATGACGTGGCAGACCGCACGTTGGAGCY			
14354	T	A	S	CAGAGGCTCCAACGTGCAGAGGTGAATGTGCATGAGCCTGTGTATGCTTTCATTCAT			
14354	T	G	S	CAGAGGCTCCAACGTGCGGAGGTGAATGTGCATGAGCCTGTGTATGCTTTCATTCAT			
				TCTGTTCTTCTCTGCTGCAGGGAAAGCCCTGACAAGGCCTGCACAGAGGCTCCAACGTGC[AG]GAGGTGAATGTGCATGAGCCTGTGTATGCTTTCATTCA			
14354	tS	[AG]		TTCAAGTATTCAGTGAACGCAT			
14355	I		A	CTTGTCACTTGGGATTCCGGGTCAGATTTTCTAGGTC			
14355	P	A	A	CGCGCCGAGGATGTCATTTTGGCTGCTY			
14355	P	T	A	ATGACGTGGCAGACTTGTCATTTTGGCTGCTY			
14355	T	A	A	ACAGAGCAGCCAAAATGACATACCTAGAAAATCTGACCCGGAATCCCAAGTGACAAGCC			
14355	T	T	A	ACAGAGCAGCCAAAATGACAAACCTAGAAAATCTGACCCGGAATCCCAAGTGACAAGCC			
				CATTTGCTGCTTTAACCTTTAAGGCTTGTCACTTGGGATTCCGGGTCAGATTTTCTAGGT[AT]TGTCATTTTGGCTGCTCTGTGGCTAATCCTCACATATCCC			
14355	tS	[AT]		TTCTGATCATGTCGGCTGGT			
14361	I		A	CAAGCCCTCCTGGGCTGATTCATGACTTCAT			
14361	P	A	A	CGCGCCGAGGACCTGTCTTGTTTCTGGAY			
14361	P	G	A	ATGACGTGGCAGACGCCTGTCTTGTTTCTGGY			
14361	T	A	A	TTTCTCCAGAAACAAGACAGGTTGAAGTCATGAATCAGCCCAGGAGGGCTTGGA			
14361	T	G	A	TTTCTCCAGAAACAAGACAGGCTGAAGTCATGAATCAGCCCAGGAGGGCTTGGA			
				GGCCTTGCGCTAGGTAGCCATGAGGTTGTCCAAGCCCTCCTGGGCTGATTCATGACTTCA[AG]CCTGTCTTGTTTCTGGAGAAATTCACTTTCACAGGTCAG			
14361	tS	[AG]		CAGACAGGGCATGACCAGGGC	ctg18433	19	
14364	I		A	CCAGGAGCGCAACGTTCACACTTGAATCCT			
14364	P	G	A	ATGACGTGGCAGACGGTGGTGTTGCGTAAGY			
14364	P	A	A	CGCGCCGAGGAGTGGTGTTGCGTAAGY			
14364	T	G	A	ATTGCTTACGCAACACCACCGGATTCAAGTGTGAACGTTGCGCTCCTGGCT			
14364	T	A	A	ATTGCTTACGCAACACCACTGGATTCAAGTGTGAACGTTGCGCTCCTGGCT			
				GTTCTTGGCTATCCTGGCGTCCCCATAGTAGCCAGGAGCGCAACGTTCACACTTGAATCC[GA]GTGGTGTTGCGTAAGCAATTCCTACACTGGCCAGTGAC			
14364	tS	[GA]		TTCATCACAATCTTCAAAGATC	ctg18433	19	LAMA4
14369	I		A	CAAGAGAAAGTGGTGAAGAGCAGAGGTTCCAAGGTTA			
14369	P	C	A	ATGACGTGGCAGACCTGTGACAGGCTGTTGY			
14369	P	T	A	CGCGCCGAGGTTGTGACAGGCTGTTGY			
14369	T	C	A	TAACCAACAGCCTGTCACAAAACCTTGGAACCTCTGCTCTTCACCACTTTCTCTTGCC			
14369	T	T	A	TAACCAACAGCCTGTCACAAAACCTTGGAACCTCTGCTCTTCACCACTTTCTCTTGCC			
				GGTCTAGGGCAGGGGTGACGGAGGCAAGAGAAAGTGGTGAAGAGCAGAGGTTCCAAGGTT[CT]TGTGACAGGCTGTTGGTTATCAGGTCAGCTCCCTTTC			
14369	tS	[CT]		TTGACATCTCAAGAGCTGGCTTC	ctg_na	NA	
14374	I		S	TGGCCTCACGGCAACTTGCTGATCTTTACTGT			
14374	P	C	S	ATGACGTGGCAGACGTCACATTGCTGGTTGTY			
14374	P	T	S	CGCGCCGAGGATCACATTGCTGGTTGTACY			
14374	T	C	S	AGATGTACAACCAGCAATGTGACCAGTAAAGATCAGCAAGTTGCCGTGAGGCCAGC			
14374	T	T	S	AGATGTACAACCAGCAATGTGATCAGTAAAGATCAGCAAGTTGCCGTGAGGCCAGC			
				ATTGAGGAAGACTAACAATAAACAAAATAACCCGGGGCAGATGTACAACCAGCAATGTGA[CT]CAGTAAAGATCAGCAAGTTGCCGTGAGGCCAGCAAATGA			
14374	tS	[CT]		GCTGATTGGCCCAAGTTAGTT	ctg_na	NA	
16291	I		S	CCTGGACCCCGGTCCCCTGCC			
16291	P	A	S	CGCGCCGAGGTCCAGAGTCCCCTTTGY			
16291	P	T	S	ATGACGTGGCAGACACCAGAGTCCCCTTTGY			
16291	T	A	S	GCCACAAAGGGGACTCTGGAGCAGGGGACCGGGGTCCAGGCT			
16291	T	T	S	GCCACAAAGGGGACTCTGGTGCAGGGGACCGGGGTCCAGGCT			
				GGGTGGGGCGAATGGAGAGTCAGGGGCCCGCTCAATGCTGAGCCACAAAGGGGACTCTGG[AT]GCAGGGGACCGGGGTCCAGGCTTACCCTGGGTCCTA			
16291	tS	[AT]		GGCTAGCCCTTCCCTGACGGGCCA	ctg12567	16	
16293	I		A	GGACGTCGCGCTTTCTCAGGGAGCC			
16293	P	T	A	CGCGCCGAGGTTAGAAGCAGCCAGGGY			
16293	P	G	A	ATGACGTGGCAGACGTAGAAGCAGCCAGGGY			
16293	T	T	A	GAGGCCCTGGCTGCTTCTAAGCTCCCTGAGAAAGCGCGACGTCCCA			
16293	T	G	A	GAGGCCCTGGCTGCTTCTACGCTCCCTGAGAAAGCGCGACGTCCCA			
				TCCTCTGCAGCTGTCGCCTGGTTGGGCCCGGAAATGGGACGTCGCGCTTTCTCAGGGAGC[TG]TAGAAGCAGCCAGGGCCTCTCCAAGCCGCTGCTGTGA			
16293	tS	[TG]		CAGAAAGTGAGTGAGCTGCCGGA	ctg15064	7	
16313	I		S	GTCTTTCAAAGCGGAACGTGCCCCTACAGTA			
16313	P	G	S	ATGACGTGGCAGACCAGAAAGAAGCTGGTTTAGAY			
16313	P	A	S	CGCGCCGAGGTAGAAAGAAGCTGGTTTAGAAGY			
16313	T	G	S	GCTCCTTCTAAACCAGCTTCTTTCTGACTGTAGGGGCACGTTCCGCTTTGAAAGACCT			
16313	T	A	S	GCTCCTTCTAAACCAGCTTCTTTCTAACTGTAGGGGCACGTTCCGCTTTGAAAGACCT			
				GGGGCCATCCAGATCCTTAGGAGGCCTCAGCCCTGGCTCCTTCTAAACCAGCTTCTTTCT[GA]ACTGTAGGGGCACGTTCCGCTTTGAAAGACCTGATGGC			
16313	tS	[GA]		TCCCACTTTGATGTTCGGATTC	ctg13206	14	
16323	I		A	GGCCACTGTGCGCGTGCACCA			
16323	P	C	A	ATGACGTGGCAGACCGGCAGCCTCACCY			
16323	P	T	A	CGCGCCGAGGTGGCAGCCTCACCY			
16323	T	C	A	GAGTGGTGAGGCTGCCGGGTGCACGCGCACAGTGGCCCT			
16323	T	T	A	GAGTGGTGAGGCTGCCAGGTGCACGCGCACAGTGGCCCT			
				CCAGCCACAGGTGAGGTCTTCCAGCCCGTGACGCCCCCAGGGCCACTGTGCGCGTGCACC[CT]GGCAGCCTCACCACTCTGCGTGGGCTGGGGCTTCAC			
16323	tS	[CT]		GTTCAATCACTGTTACTCATTCAC	ctg22fin4	22	
16367	I		S	GCCGGGCGCGGTGGCTA			
16367	P	G	S	ATGACGTGGCAGACCATGTCTGTATTCCCAGCY			
16367	P	A	S	CGCGCCGAGGTATGTCTGTATTCCCAGCAY			
16367	T	G	S	AAAGTGCTGGGAATACAGACATGAGCCACCGCGCCCGGCCC			
16367	T	A	S	AAAGTGCTGGGAATACAGACATAAGCCACCGCGCCCGGCCC			
				ACTCCCGACCTAAGGTAATCTGCCCGCCTCGGCCTCCCAAAGTGCTGGGAATACAGACAT[GA]AGCCACCGCGCCCGGCCCCAATTCTCTTTCCCCAGTGA			
16367	tS	[GA]		CTCTTTCTTATCCTTCCCTCCT			
16368	I		S	GGGTTCCCCAAATAACTTTGACCACAAACCAAAAACATTTTTTTTAAATGTATTAACAAC			
16368	P	A	S	CGCGCCGAGGTTCCCCAAACAGGGGY			
16368	P	T	S	ATGACGTGGCAGACATCCCCAAACAGGGGY			
16368	T	A	S	AGTGCCCCTGTTTGGGGAATTGTTAATACATTTAAAAAAAATGTTTTTGGTTTGTGGTCAAAGTTATTTGGGGAACCCT			
16368	T	T	S	AGTGCCCCTGTTTGGGGATTTGTTAATACATTTAAAAAAAATGTTTTTGGTTTGTGGTCAAAGTTATTTGGGGAACCCT			
				TAATTCTCTATCTAGGTCAACATTTCCCTCAGTACGTTTCTCAGTGCCCCTGTTTGGGGA[AT]TTGTTAATACATTTAAAAAAAATGTTTTTGGTTTGTGGTCA			
16368	tS	[AT]		AAGTTATTTGGGGAACCCT	ctg15590	7	
16385	I		A	AGCTGGAGTGCAGGGGCACGATCTCT			
16385	P	G	A	ATGACGTGGCAGACGGCTCACTGCAACCY			
16385	P	A	A	CGCGCCGAGGAGCTCACTGCAACCTY			
16385	T	G	A	GCAGAGGTTGCAGTGAGCCGAGATCGTGCCCCTGCACTCCAGCTTG			
16385	T	A	A	GCAGAGGTTGCAGTGAGCTGAGATCGTGCCCCTGCACTCCAGCTTG			
				TTTTTTTTTGAGACGGAGTCTAGCTCTGTTGCCCAAGCTGGAGTGCAGGGGCACGATCTC[GA]GCTCACTGCAACCTCTGCCTCCCGGGTTCAAGCGATTC			
16385	tS	[GA]		TCTTGCCTCAGCCTCCCGAGTA	ctg19247	7	
16417	I		A	CGTAGCAAAGACGGTTGGCTTTTGCTCATCGAAAATTACA			
16417	P	T	A	CGCGCCGAGGTCTAAACCTATTCCCCAACY			
16417	P	C	A	ATGACGTGGCAGACCCTAAACCTATTCCCCAACY			
16417	T	T	A	GACGGTTGGGGAATAGGTTTAGAGTAATTTTCGATGAGCAAAAGCCAACCGTCTTTGCTACGTC			
16417	T	C	A	GACGGTTGGGGAATAGGTTTAGGGTAATTTTCGATGAGCAAAAGCCAACCGTCTTTGCTACGTC			

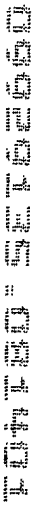
FIGURE 129E

				ATTTGTGGGCTACGCAGGCGACGTAGCAAAGACGGTTGGCTTTTGCTCATCGAAAATTAC[TC]CTAAACCTATTCCCCAACCGTCCCCTCAAGGAAGCTGGG			
16417	IS	[TC]		GCTGAAGAGGAGTAAAAGATG	ctg18037	7	
16455	I		A	CAGGGTTGGAGGCTAACAGGCTGATTCCTGT			
16455	P	A	A	CGCGCCGAGGAGATGAGCAGCCTCTAGY			
16455	P	G	A	ATGACGTGGCAGACGGATGAGCAGCCTCTAY			
16455	T	A	A	GCTGCTAGAGGCTGCTCATCTCAGGAATCAGCCTGTTAGCCTCCAACCCTGGG			
16455	T	G	A	GCTGCTAGAGGCTGCTCATCCCAGGAATCAGCCTGTTAGCCTCCAACCCTGGG			
				GAGGCACTAGGAGCTGCTGTCCCTGGACCCCAGGGTTGGAGGCTAACAGGCTGATTCCTG[AG]GATGAGCAGCCTCTAGCAGCAGGAACAAAGGAGGGG			
16455	IS	[AG]		ACGGGAGGCCAAGGCCCCATCTGG	ctg13206	14	
16488	I		A	AGTCTAGGAAGCCCCCTTCTTCACATGTT			
16488	P	A	A	CGCGCCGAGGATGTTACATGTACCCCGAY			
16488	P	G	A	ATGACGTGGCAGACGTGTTACATGTACCCCGY			
16488	T	A	A	GAAATCGGGGTACATGTAACATACATGTGAAGAAGGGGGCTTCCTAGACTCA			
16488	T	G	A	GAAATCGGGGTACATGTAACACACATGTGAAGAAGGGGGCTTCCTAGACTCA			
				ATTTTTTAAGCCTGTTCTTCCATATTTAATTGAGTCTAGGAAGCCCCCTTCTTCACATGT[AG]TGTTACATGTACCCCGATTTCATGACTTTAATATTTTGCTTT			
16488	IS	[AG]		TAATGATATGTAGGAAAT	ctg30	7	
16497	I		A	GGTATAGGAGGGGGCCGGGTGGAGA			
16497	P	C	A	ATGACGTGGCAGACCTGGAGACCTCTGGAAGY			
16497	P	T	A	CGCGCCGAGGTTGGAGACCTCTGGAAGY			
16497	T	C	A	ACCACTTCCAGAGGTCTCCAGCTCCACCCGGCCCCCTCCTATACCCC			
16497	T	T	A	ACCACTTCCAGAGGTCTCCAACTCCACCCGGCCCCCTCCTATACCCC			
				ACCCTCACTGCCCCCTAGCCCAGCCCCAGCATTTGGGGTATAGGAGGGGGCCGGGTGGAG[CT]TGGAGACCTCTGGAAGTGGTGGGGGCAGTACAGGAC			
16497	IS	[CT]		ACAATGGACCTATTCTAATAACCT			
16551	I		A	CTGCCCAAGGCTGCTGCAGAGCTAAGA			
16551	P	T	A	CGCGCCGAGGTGGCTGACTGCCAGY			
16551	P	C	A	ATGACGTGGCAGACCGGCTGACTGCCAY			
16551	T	T	A	TCCCCTGGCAGTCAGCCACTTAGCTCTGCAGCAGCCTTGGGCAGGG			
16551	T	C	A	TCCCCTGGCAGTCAGCCGCTTAGCTCTGCAGCAGCCTTGGGCAGGG			
				TGGGAGAGGCAGAAGGAGTGCCTGGTAGGAGACCCTGCCCAAGGCTGCTGCAGAGCTAAG[TC]GGCTGACTGCCAGGGGAGACACCTTCTCTGGGCCAT			
16551	IS	[TC]		GTGAGGTCAAATAAGCCACAAGTC	ctg15064	7	
16567	I		A	GGTTTTCAAACTCAAATGTGGAGGCCTGGAGACAGATT			
16567	P	G	A	ATGACGTGGCAGACGGGCTGGATGTGTTTAGY			
16567	P	A	A	CGCGCCGAGGAGGCTGGATGTGTTTAGTY			
16567	T	G	A	CTACACTAAACACATCCAGCCCATCTGTCTCCAGGCCTCCACATTTGAGTTTGAAAACCGG			
16567	T	A	A	CTACACTAAACACATCCAGCCTATCTGTCTCCAGGCCTCCACATTTGAGTTTGAAAACCGG			
				CCAGTCACCCAGCAGTCTGGTCCGGTTTTCAAACTCAAATGTGGAGGCCTGGAGACAGAT[GA]GGCTGGATGTGTTTAGTGTAGGTGACAGGTGCAGACAG			
16567	IS	[GA]		CTTCACCAAGGCAATGTCATAG	ctg15064	7	PRS21
16593	I		S	GTAAAGTCAGACTCTATTACCAAAAGGTCTTATTTCATAAATTCAAAGGATAAGATAA			
16593	P	A	S	CGCGCCGAGGTTGAACAAACCCAAACCCY			
16593	P	G	S	ATGACGTGGCAGACCTGAACAAACCCAAACCCY			
16593	T	A	S	GTGGGGGTTTGGGTTTGTTCAATATCTTATCCTTTGAATTTATGAAATAAGACCTTTTGGTAATAGAGTCTGACTTTACTA			
16593	T	G	S	GTGGGGGTTTGGGTTTGTTCAGTATCTTATCCTTTGAATTTATGAAATAAGACCTTTTGGTAATAGAGTCTGACTTTACTA			
				TTTTACCATATTAAGGTGAAATAGACTTTCTAATAAAATGTGGGGGTTTGGGTTTGTTCA[AG]TATCTTATCCTTTGAATTTATGAAATAAGACCTTTTGGTAAT			
16593	IS	[AG]		AGAGTCTGACTTTACTAC	ctg14708	2	
16649	I		S	GAGGCAGGATTGCTTGAGCCCAAGAATTCAAGAA			
16649	P	A	S	CGCGCCGAGGTCAGCCTGGGCAACY			
16649	P	G	S	ATGACGTGGCAGACCCAGCCTGGGCAAY			
16649	T	A	S	CTATGTTGCCCAGGCTGATCTTGAATTCTTGGGCTCAAGCAATCCTGCCTCAG			
16649	T	G	S	CTATGTTGCCCAGGCTGGTCTTGAATTCTTGGGCTCAAGCAATCCTGCCTCAG			
				ATGCAAAATTTTTTTTAAAAAAATTTGTAGATATGGGGACTCCCTATGTTGCCCAGGCTG[AG]TCTTGAATTCTTGGGCTCAAGCAATCCTGCCTCAGCCTCA			
16649	IS	[AG]		CAAAGCGCTGGAATTACAGG	ctg25099	7	
16658	I		S	CATTAGATTACAAGCTCTGCAAGAGCAGGATGTTTAAAAATTTCA			
16658	P	G	S	ATGACGTGGCAGACCAACATCTATCTTAGAACCTGGY			
16658	P	A	S	CGCGCCGAGGTAACATCTATCTTAGAACCTGGY			
16658	T	G	S	TGTGCCAGGTTCTAAGATAGATGTTGAAAATTTTTAAACATCCTGCTCTTGCAGAGCTTGTAATCTAATGAG			
16658	T	A	S	TGTGCCAGGTTCTAAGATAGATGTTAGAAATTTTTAAACATCCTGCTCTTGCAGAGCTTGTAATCTAATGAG			
				TTCATTATTCAAGGGAATTTGCTGAGCATCTATGATGTGCCAGGTTCTAAGATAGATGTT[GA]GAAATTTTTAAACATCCTGCTCTTGCAGAGCTTGTAATCTA			
16658	IS	[GA]		ATGAGAACAATAGATAAGT	ctg17207	19	
16666	I		S	GAATTGAGAAGCAGTACAGTTTAATACTAAGAATGAAAGAGAAAAGCATTAGC			
16666	P	T	S	CGCGCCGAGGAAATTAGCTCAGGGCTAAAAY			
16668	P	A	S	ATGACGTGGCAGACTAATTAGCTCAGGGCTAAAATY			
16668	T	T	S	AGTCATTTTAGCCCTGAGCTAATTTCTAATGCTTTTCTCTTTCATTCTTAGTATTAAACTGTACTGCTTCTCAATTCAA			
16668	T	A	S	AGTCATTTTAGCCCTGAGCTAATTACTAATGCTTTTCTCTTTCATTCTTAGTATTAAACTGTACTGCTTCTCAATTCAA			
				AAAGTATAACAACAAAAAAGAAAAATCTCAGTGTTTAGTCATTTTAGCCCTGAGCTAATT[TA]CTAATGCTTTTCTCTTTCATTCTTAGTATTAAACTGTACTGC			
16668	IS	[TA]		TTCTCAATTCAAGTGTGC	ctg13206	14	
16731	I		S	GCTGCCCTGGTGACACCCGGATTTTGTAA			
16731	P	G	S	ATGACGTGGCAGACCTTCTGGCCTTGAACTATGY			
16731	P	A	S	CGCGCCGAGGTTTCTGGCCTTGAACTATGY			
16731	T	G	S	CCTTCATAGTTCAAGGCCAGAAGTACAAAATCCGGGTGTCACCAGGGCAGCGC			
16731	T	A	S	CCTTCATAGTTCAAGGCCAGAAATACAAAATCCGGGTGTCACCAGGGCAGCGC			
				CGCCACAGCCGGGTGGTGAGAAGCAACAGCGGTTTATTCCTTCATAGTTCAAGGCCAGAA[GA]TACAAAATCCGGGTGTCACCAGGGCAGCGCTCCCTGG			
16731	IS	[GA]		CTCTGGTGCTGTCCTTGCCCCTT	ctg15804	2	
16851	I		S	GAGCGGGCGCTGCGCGAGA			
16851	P	A	S	CGCGCCGAGGTGGGAGGAGGCAGAY			
16851	P	G	S	ATGACGTGGCAGACCGGGAGGAGGCAGY			
16851	T	A	S	GCGCTCTGCCTCCTCCCACTCGCGCAGCGCCCGCTCCT			
16851	T	G	S	GCGCTCTGCCTCCTCCCGCTCGCGCAGCGCCCGCTCCT			
				GGGCCGGGGCCAGGGTGGGGTGCGGCCGCACCTGCCTCTGGGCGCGCTCTGCCTCCTCCC[AG]CTCGCGCAGCGCCCGCTCCTCCGCCTGCCGCTGCA			
16851	IS	[AG]		GCTGCTCCTCCTTCTCCCGGCCCTG	ctg15804	2	
16859	I		S	CTTTGGCCCCCAAAAATTACCAACAGCATGCTTGA			
16859	P	G	S	ATGACGTGGCAGACCATCATCTACCTCTGCATGY			
16859	P	A	S	CGCGCCGAGGTATCATCTACCTCTGCATGTY			
16859	T	G	S	AGTAACATGCAGAGGTAGATGATGCAAGCATGCTGTTGGTAATTTTTGGGGGCCAAAGGA			
16859	T	A	S	AGTAACATGCAGAGGTAGATGATACAAGCATGCTGTTGGTAATTTTTGGGGGCCAAAGGA			
				CCCACTCCCCCACCCCCCCCCCCCGGCAAAAAGATTGAGTAACATGCAGAGGTAGATGAT[GA]CAAGCATGCTGTTGGTAATTTTTGGGGGCCAAAGGAAA			
16859	IS	[GA]		CAGTGGGGCAAAAGTGTCAGAA	ctg14708	2	
16870	I		S	CCTTTGGGTGCAGAAATCCAGTCCTAGTCCTTTTTGAAT			
16870	P	C	S	ATGACGTGGCAGACGGTAATTTGTGAAGAAAATGTTGY			
16870	P	T	S	CGCGCCGAGGAGTAATTTGTGAAGAAAATGTTGTY			
16870	T	C	S	GATCACAACATTTTCTTCACAAATTACCTTCAAAAAGGACTAGGACTGGATTTCTGCACCCAAAGGCA			
16870	T	T	S	GATCACAACATTTTCTTCACAAATTACTTTCAAAAAGGACTAGGACTGGATTTCTGCACCCAAAGGCA			
				GAGTGGGTCTTAGTGTTGACTGGATCACTATGGGATCACAACATTTTCTTCACAAATTAC[CT]TTCAAAAAGGACTAGGACTGGATTTCTGCACCCAAAGGCA			
16870	IS	[CT]		TTGCTCACTTTGATTGAGTT	ctg14708	2	
16905	I		A	GCTTGCTAATGTCAAAAGTTGTTCTTGATTCTTTTGGGCACTAGAAAAC			
16905	P	T	A	CGCGCCGAGGTCCATCGAAAGACCTACAY			
16905	P	G	A	ATGACGTGGCAGACGCCATCGAAAGACCTACY			
16905	T	T	A	CCTTTGTAGGTCTTTCGATGGATTTTCTAGTGCCCAAAAGAATCAAGAACAACTTTTGACATTAGCAAGCAT			
16905	T	G	A	CCTTTGTAGGTCTTTCGATGGCTTTTCTAGTGCCCAAAAGAATCAAGAACAACTTTTGACATTAGCAAGCAT			

FIGURE 129E

				TTCCCTTAAAATGCTTGCTAATGTCAAAAGTTGTTCTTGATTCTTTTGGGCACTAGAAAA[TG]CCATCGAAAGACCTACAAAGGAGAAAGGAAATAACCGTGA		
16905	IS	[TG]		ATGATTTTAATACTGATGTG	ctg14708	2
16922	I		S	GCCTGTAATCCCAGCACTTTGGGAGGCCT		
16922	P	C	S	ATGACGTGGCAGACGAGGTGGGCAGATCAY		
16922	P	T	S	CGCGCCGAGGAAGGTGGGCAGATCATY		
16922	T	C	S	CTTCATGATCTGCCCACCTCGGCCTCCCAAAGTGCTGGGATTACAGGCCT		
16922	T	T	S	CTTCATGATCTGCCCACCTTGGCCTCCCAAAGTGCTGGGATTACAGGCCT		
				AGAGTTTCACCATGTTGGCCAGGCTGGTCTCGAACTCCTGACTTCATGATCTGCCCACCT[CT]GGCCTCCCAAAGTGCTGGGATTACAGGCCTCTGAGGCA		
16922	IS	[CT]		CTGCGCCCAGCCCAGTAGTAAG	ctg14708	2
17023	I		S	GAAGGATGGGATGAATGGATGATGGGCTGAGAGATTTA		
17023	P	G	S	ATGACGTGGCAGACCCATCTTGAATAAGTAGGGAAAY		
17023	P	A	S	CGCGCCGAGGTCATCTTGAATAAGTAGGGAAAGY		
17023	T	G	S	CAAGCTTTCCCTACTTATTCAAGATGGAAATCTCTCAGCCCATCATCCATTCATCCCATCCTTCTC		
17023	T	A	S	CAAGCTTTCCCTACTTATTCAAGATGAAAATCTCTCAGCCCATCATCCATTCATCCCATCCTTCTC		
				AGATAATTTCTCCAAGAGCCCCCAGAGATGTTTCCAAGCTTTCCCTACTTATTCAAGATG[GA]AAATCTCTCAGCCCATCATCCATTCATCCCATCCTTCTCTG		
17023	IS	[GA]		TTTATTGAGCACCTACTAT	ctg14708	2
17106	I		A	GAGGCGGAGGTTGCAGTGAGCTGAGATCT		
17106	P	G	A	ATGACGTGGCAGACGTGCCACTGCACTCY		
17106	P	A	A	CGCGCCGAGGATGCCACTGCACTCCY		
17106	T	G	A	GGCTGGAGTGCAGTGGCACGATCTCAGCTCACTGCAACCTCCGCCTCCT		
17106	T	A	A	GGCTGGAGTGCAGTGGCATGATCTCAGCTCACTGCAACCTCCGCCTCCT		
				GAGGCTGAGGCAGGAGAATCGCTTGAACCCAGGAGGCGGAGGTTGCAGTGAGCTGAGATC[GA]TGCCACTGCACTCCAGCCTGGGCAACAAGAGGAAAA		
17106	IS	[GA]		CTCCATCTCAAAATAAATACATAA	ctg14708	2
17375	I		S	GGCTCAAGCTAGCCTCCTGCCTCGGA		
17375	P	A	S	CGCGCCGAGGTCTCTCAAAGTGCTGGGY		
17375	P	G	S	ATGACGTGGCAGACCCTCTCAAAGTGCTGGY		
17375	T	A	S	TCATCCCAGCACTTTGAGAGACCGAGGCAGGAGGCTAGCTTGAGCCCT		
17375	T	G	S	TCATCCCAGCACTTTGAGAGGCCGAGGCAGGAGGCTAGCTTGAGCCCT		
				CTTCTTTGGCAAAATGGCCGGGGACAGTGGCTTACACCTGTCATCCCAGCACTTTGAGAG[AG]CCGAGGCAGGAGGCTAGCTTGAGCCCTGGAGTTCAAG		
17375	IS	[AG]		ACCAGCCTGGACAACACAGCGAG	ctg15842	19
17429	I		S	GGCTGGAGTGTGGGGGCTCGCT		
17429	P	C	S	ATGACGTGGCAGACGTGCGTGCACGTACY		
17429	P	T	S	CGCGCCGAGGATGCGTGCACGTACY		
17429	T	C	S	CAAGGTACGTGCACGCACGCGAGCCCCCACACTCCAGCCAG		
17429	T	T	S	CAAGGTACGTGCACGCATGCGAGCCCCCACACTCCAGCCAG		
				AGGCCAGCTGCAAATGGGCCCACCTGGCTCCAAGGGGAGAGACCAAGGTACGTGCACGCA[CT]GCGAGCCCCCACACTCCAGCCAGGGCCCCCACAGGC		
17429	IS	[CT]		AGGATCCTGGGCAGTCGCCACCTG	ctg16235	17
4082	I		S	ACATGTATCAAAATGTCCCCAAAGAAAAAAACATGTCCCAGCATAACA		
4082	P	A	S	CGCGCCGAGGTTCTAATTGTGTATGTTATTATACATGGCY		
4082	P	G	S	CGCGCCGAGGCTCTAATTGTGTATGTTATTATACATGGCY		
4082	T	A	S	TTTTGCCATGTATAATAACATACACAATTAGAAGTTATGCTGGGACATGTTTTTTTCTTTGGGGACATTTTGATACATGTAT		
4082	T	G	S	TTTTGCCATGTATAATAACATACACAATTAGAGGTTATGCTGGGACATGTTTTTTTCTTTGGGGACATTTTGATACATGTAT		
				TATTCATATTTCTTAAATTTTTGCCATGTATAATAACATACACAATTAGA[AG]GTTATGCTGGGACATGTTTTTTTCTTTGGGGACATTTTGATACATGTATA		
4082	IS	[AG]			ctg16235	17
6951	I		S	GGGTCAAGAGAGCTTTACTCCAGTGGTTATAATCAACTTAAAGGTCTTCCT		
6951	P	C	S	CGCGCCGAGGGTCCTCTCAGTGAAAATGAACCY		
6951	P	G	S	CGCGCCGAGGCTCCTCTCAGTGAAAATGAACCY		
6951	T	C	S	CCGGGGTTCATTTTCACTGAGAGGACGGAAGACCTTTAAGTTGATTATAACCACTGGAGTAAAGCTCTCTTGACCC		
6951	T	G	S	CCGGGGTTCATTTTCACTGAGAGGAGGGAAGACCTTTAAGTTGATTATAACCACTGGAGTAAAGCTCTCTTGACCC		
				GGGGAAGGCCAAATGATAAGAGGATCCGGGGTTCATTTTCACTGAGAGGA[CG]GGAAGACCTTTAAGTTGATTATAACCACTGGAGTAAAGCTCTCTTGACC		
6951	IS	[CG]		C	ctg16235	17
6963	I		A	CCAGCACGGCACGTGCCACCCT		
6963	P	C	A	CGCGCCGAGGCCGGAGCGGCGCY		
6963	P	G	A	CGCGCCGAGGGCGGAGCGGCGY		
6963	T	C	A	GCACGCGCCGCTCCGGGGGTGGCACGTGCCGTGCTGGCA		
6963	T	G	A	GCACGCGCCGCTCCGCGGGTGGCACGTGCCGTGCTGGCA		
				GGCGCGCGCTGCGAGCATGCGTGCCAGTGCCAGCACGGCACGTGCCACCC[CG]CGGAGCGGCGCGTGCCGCTGTGAGTCCGGCTGGTGGGGCGCGCA		
6963	IS	[CG]		GTGCGC	ctg16235	17
6973	I		A	ACAGCCAAGCCCAGATGCCAGTCTTGCA		
6973	P	C	A	CGCGCCGAGGCAGCAGCCTTCCTTTGC		
6973	P	T	A	CGCGCCGAGGTAGCAGCCTTCCTTTGC		
6973	T	C	A	GAAGGCAAAGGAAGGCTGCTGGCAAGACTGGCATCTGGGCTTGGCTGTGT		
6973	T	T	A	GAAGGCAAAGGAAGGCTGCTAGCAAGACTGGCATCTGGGCTTGGCTGTGT		
				TTTTCCCACAATAGAAAACACACACAGCCAAGCCCAGATGCCAGTCTTGC[CT]AGCAGCCTTCCTTTGCCTTCAAGATTAGGCCATCATGCTGTACCTCCAAC		
6973	IS	[CT]			ctg16235	17
6974	I		A	GGCTGAGGCTCCTCCAACCGGTCCTT		
6974	P	G	A	CGCGCCGAGGGGAGGGAGGTGTGGTTA		
6974	P	A	A	CGCGCCGAGGAGAGGGAGGTGTGGTTAG		
6974	T	G	A	CTCTCTAACCACACCTCCCTCCAGGACCGGTTGGAGGAGCCTCAGCCCA		
6974	T	A	A	CTCTCTAACCACACCTCCCTCTAGGACCGGTTGGAGGAGCCTCAGCCCA		
				CCCAGGGCTTGAGCTCAGGGGCCTGGGCTGAGGCTCCTCCAACCGGTCCT[GA]GAGGGAGGTGTGGTTAGAGAGCAGGAAACAGGTTTGGGTTTAGCCA		
6974	IS	[GA]		GAAG	ctg11	15
6984	I		A	GTACCTGCCCACTGCCTTCACACACCCT		
6984	P	A	A	CGCGCCGAGGAGGCCTGGGGTTTTAATTAC		
6984	P	C	A	CGCGCCGAGGCGGCCTGGGGTTTTAATT		
6984	T	A	A	TGAAGTAATTAAAACCCCAGGCCTGGGTGTGTGAAGGCAGTGGGCAGGTACAC		
6984	T	C	A	TGAAGTAATTAAAACCCCAGGCCGGGGTGTGTGAAGGCAGTGGGCAGGTACAC		
				AGGAAATACTGAAAGCAGTGTGTGTACCTGCCCACTGCCTTCACACACCC[AC]GGCCTGGGGTTTTAATTACTTCAAGCAGGCCAGCCTCAGGTGCCCACA		
6984	IS	[AC]		GC	ctg11	15
7010	I		A	AAGGCTTATTCCCATTCTGTGTATGGTTGTTTCCAATTATCTTTTTAATGT		
7010	P	A	A	CGCGCCGAGGAAAGCTTCATAATCAATAGTGGTTTTG		
7010	P	C	A	CGCGCCGAGGCAAGCTTCATAATCAATAGTGGTTTT		
7010	T	A	A	CTGCCAAAACCACTATTGATTATGAAGCTTTCATTAAAAAGATAATTGGAAACAACCATACACAGAATGGGAATAAGCCTT		
7010	T	C	A	CTGCCAAAACCACTATTGATTATGAAGCTTGCATTAAAAAGATAATTGGAAACAACCATACACAGAATGGGAATAAGCCTT		
				AAGGCTTATTCCCATTCTGTGTATGGTTGTTTCCAATTATCTTTTTAATG[AC]AAGCTTCATAATCAATAGTGGTTTTGGCAGCACCCGCCATCTATTGTAAT		
7010	IS	[AC]				
7064	I		A	CCTTCCCTTCTACACGGGCTTTGGATTTTGGT		
7064	P	C	A	CGCGCCGAGGCGGGAAAATCCCACGAG		
7064	P	A	A	CGCGCCGAGGAGGGAAAATCCCACGAGA		
7064	T	C	A	TCAGTCTCGTGGGATTTTCCCGCCAAAATCCAAAGCCCGTGTAGAAGGGAAGGTT		
7064	T	A	A	TCAGTCTCGTGGGATTTTCCCTCCAAAATCCAAAGCCCGTGTAGAAGGGAAGGTT		
				ACAAAAGCCTGATATTAAACCTTCCCTTCTACACGGGCTTTGGATTTTGG[CA]GGGAAAATCCCACGAGACTGACTAATATTTGTACAGACTAACAGTTTATA	MULTIPLE	MULTIPLE
7064	IS	[CA]				
7083	I		A	GCTGCACCCGCTTGGCGGACATTT		
7083	P	A	A	CGCGCCGAGGATAACTTCTGCCTCGCGA		
7083	P	G	A	CGCGCCGAGGGTAACTTCTGCCTCGCG		
7083	T	A	A	TTCCTCGCGAGGCAGAAGTTATAATGTCCGCCAAGCGGGTGCAGCCG		
7083	T	G	A	TTCCTCGCGAGGCAGAAGTTACAATGTCCGCCAAGCGGGTGCAGCCG		

FIGURE 129E



			CGCTCAGCCCCTTTTCCCGAGTCCTCGGCTGCACCCGCTTGGCGGACATT[AG]TAACTTCTGCCTCGCGAGGAACGGGATGGACTTGTTCGCCCTGCTAG			
7083 IS	[AG]		AGG		ctg16235	17
7119 I		A	GCAAAACAACACGGCTCACCTAAGGCCACACT			
7119 P	A	A	CGCGCCGAGGAGAAAGATGAAGGCAGACC			
7119 P	C	A	CGCGCCGAGGCGAAAGATGAAGGCAGACC			
7119 T	A	A	CCTGGGTCTGCCTTCATCTTTCTGTGTGGCCTTAGGTGAGCCGTGTTGTTTTGCCA			
7119 T	C	A	CCTGGGTCTGCCTTCATCTTTCGGTGTGGCCTTAGGTGAGCCGTGTTGTTTTGCCA			
			ATGAATCCGCTGAGTCTTGGCAAAACAACACGGCTCACCTAAGGCCACAC[AC]GAAAGATGAAGGCAGACCCAGGATTACATCGGGGGCCTCTGGTTTTCTG			
7119 IS	[AC]		TT		ctg_na	NA
7160 I		A	CGCTCCTGAGTGAAACTGAGTTTTGTCTTCCTGTGAATGTT			
7160 P	G	A	CGCGCCGAGGGTTCAGGTGCAGAACACAY			
7160 P	C	A	CGCGCCGAGGCTTCAGGTGCAGAACACACY			
7160 T	G	A	CATTGTGTGTTCTGCACCTGAACACATTCACAGGAAGACAAAACTCAGTTTCACTCAGGAGCGCC			
7160 T	C	A	CATTGTGTGTTCTGCACCTGAAGACATTCACAGGAAGACAAAACTCAGTTTCACTCAGGAGCGCC			
			CCATCAGGGGCGCTCCTGAGTGAAACTGAGTTTTGTCTTCCTGTGAATGT[GC]TTCAGGTGCAGAACACACAATGACCACTAGTGGGGGTGTAGAGTCACC			
7160 IS	[GC]		AC		ctg13206	14
7164 I		A	GCTCAAAGGTATTAACTGTCACCCCCCTCCCCT			
7164 P	A	A	CGCGCCGAGGACAAAAAAAGGCATTCTTGGAAT			
7164 P	G	A	CGCGCCGAGGGCAAAAAAAGGCATTCTTGGA			
7164 T	A	A	GCTCATTCCAAGAATGCCTTTTTTTTGTGGGGAGGGGGGTGACAGTTAATACCTTTGAGCTT			
7164 T	G	A	GCTCATTCCAAGAATGCCTTTTTTTGCGGGGAGGGGGGTGACAGTTAATACCTTTGAGCTT			
			TTGTAAAAAGATCCAGAAGCTCAAAGGTATTAACTGTCACCCCCCTCCCC[AG]CAAAAAAAGGCATTCTTGGAATGAGCTTTTATTTCAGAAAAGAAACCAAT			
7164 IS	[AG]					
7165 I		A	CCTTCACACTAGAATTTATTTCTTAACAGCCTGATCAGTAATTGGCACATT			
7165 P	G	A	CGCGCCGAGGGGTAGATGTTCTATAATTTGTTTAACCAC			
7165 P	A	A	CGCGCCGAGGAGTAGATGTTCTATAATTTGTTTAACCAC			
7165 T	G	A	TAATGTGGTTAAACAAATTATAGAACATCTACCATGTGCCAATTACTGATCAGGCTGTTAAGAAATAAATTCTAGTGTGAAGG			
7165 T	A	A	TAATGTGGTTAAACAAATTATAGAACATCTACTATGTGCCAATTACTGATCAGGCTGTTAAGAAATAAATTCTAGTGTGAAGG			
			CCTTCACACTAGAATTTATTTCTTAACAGCCTGATCAGTAATTGGCACAT[GA]GTAGATGTTCTATAATTTGTTTAACCACATTAAAAAAAAAAAAAAGCTC			
7165 IS	[GA]				ctg13206	14
7220 I		A	GAAGATGTAGACTGTGAAGAAGGTGAAGATGAAAGTGAAGATGTAGACTC			
7220 P	INS	A	CGCGCCGAGGGTGAAGAAGGTGAAGATGAAAGT			
7220 P	DEL	A	CGCGCCGAGGGAAGAAGGTGAAGATGAAAGTGA			
7220 T	INS	A	ATCTTCACTTTCATCTTCACCTTCTTCACAGTCTACATCTTCACTTTCATCTTCACCTTCTTCACAGTCTACATCTTC			
7220 T	DEL	A	ATCTTCACTTTCATCTTCACCTTCTTCAGTCTACATCTTCACTTTCATCTTCACCTTCTTCACAGTCTACATCTTC			
			GAAGATGTAGACTGTGAAGAAGGTGAAGATGAAAGTGAAGATGTAGACTG[-			
7220 IS	[-TG]		TG]AAGAAGGTGAAGATGAAAGTGAAGATGTAGACTGTAAAGAAGGTGATGAC			
7232 I		A	GTTGGGCCCTAGGGACGGTGCTTACCT			
7232 P	A	A	CGCGCCGAGGATGCATGATGGAGAAATAGGCY			
7232 P	G	A	CGCGCCGAGGGTGCATGATGGAGAAATAGGCY			
7232 T	A	A	GAGAGCCTATTTCTCCATCATGCATGGTAAGCACCGTCCCTAGGGCCCAACGA			
7232 T	G	A	GAGAGCCTATTTCTCCATCATGCACGGTAAGCACCGTCCCTAGGGCCCAACGA			
			ATTTTTAAAGCTCCTAAAAGTATCGTTGGGCCCTAGGGACGGTGCTTACC[AG]TGCATGATGGAGAAATAGGCTCTCTATAGAGGGGAAACTGAGGCACAGT			
7232 IS	[AG]		G		ctg18466	16
7283 I		S	TCTTCATCGCCACATAACTGCTACCCACCT			
7283 P	T	S	CGCGCCGAGGATTCCTCAAGGCCCAACT			
7283 P	G	S	CGCGCCGAGGCTTCCTCAAGGCCCAAC			
7283 T	T	S	GTGGAGTTGGGCCTTGAGGAATGGTGGGTAGCAGTTATGTGGCGATGAAGAGA			
7283 T	G	S	GTGGAGTTGGGCCTTGAGGAAGGGTGGGTAGCAGTTATGTGGCGATGAAGAGA			
			AATGGAGATGGCTTGGAAAAGAGGTCACCGTGGAGTTGGGCCTTGAGGAA[TG]GGTGGGTAGCAGTTATGTGGCGATGAAGAGACTATTTCAAAGGAATGA			
7283 IS	[TG]		AT		ctg18297	19
7292 I		A	AAAAGTCATATGGCTTCTTAGAAAAGGATTGTAACAAATCAAAATTATTAT			
7292 P	G	A	CGCGCCGAGGGTGCAAGACCACTCAGGATT			
7292 P	A	A	CGCGCCGAGGATGCAAGACCACTCAGGTATT			
7292 T	G	A	AAGAACCTGAGTGGTCTTGCACTAATAATTTTGATTTGTTACAATCCTTTTCTAAGAAGCCATATGACTTTT			
7292 T	A	A	AAGAACCTGAGTGGTCTTGCATTAATAATTTTGATTTGTTACAATCCTTTTCTAAGAAGCCATATGACTTTT			
			AAAAGTCATATGGCTTCTTAGAAAAGGATTGTAACAAATCAAAATTATTA[GA]TGCAAGACCACTCAGGTTCTTAGATTAGAAAATGGCTAAGGCTATGACTC			
7292 IS	[GA]				ctg17286	19
7337 I		S	CAGGCTTGTGGAAGCGACGTTTTGCAAACTGAGA			
7337 P	A	S	CGCGCCGAGGTGGTTTCCCCTCCTGG			
7337 P	G	S	CGCGCCGAGGCGGTTTCCCCTCCTGG			
7337 T	A	S	GGAGCCAGGAGGGGAAACCACTCAGTTTGCAAAACGTCGCTTCCACAAGCCTGAT			
7337 T	G	S	GGAGCCAGGAGGGGAAACCGCTCAGTTTGCAAAACGTCGCTTCCACAAGCCTGAT			
			TTCTTGTCACACCCAACTCAAACAGAGGCCAGGAGCCAGGAGGGGAAACC[AG]CTCAGTTTGCAAAACGTCGCTTCCACAAGCCTGATGGCTGAAACTGCT			
7337 IS	[AG]		CA		ctg_na	NA
7510 I		A	GTGAGGGGGATAAAGAAAAAGTGTGCTCTCCTCA			
7510 P	C	A	CGCGCCGAGGCCGCCGAGAGGCTATT			
7510 P	T	A	CGCGCCGAGGTCGCCGAGAGGCTTCTTT			
7510 T	C	A	TCTTGAAGCCTCTCGGCGGGAGGAGAGCACACTTTTTCTTTATCCCCCTCACAC			
7510 T	T	A	TCTTGAAGCCTCTCGGCGAGAGGAGAGCACACTTTTTCTTTATCCCCCTCACAC			
			GGACTCAGATGAATAGTGTGAGGGGGATAAAGAAAAAGTGTGCTCTCCTC[CT]CGCCGAGAGGCTTCAAGAGCCCCTGCAGATTCGGAGTGATAAGGAGCT			
7510 IS	[CT]		TA		ctg19247	7
7542 I		S	GCACCTCTGGGGACAATGTCCGGAGTCAT			
7542 P	C	S	CGCGCCGAGGGACATTCTGAGCTCTCCAGA			
7542 P	G	S	CGCGCCGAGGCACATTCTGAGCTCTCCAG			
7542 T	C	S	TGTATCTGGAGAGCTCAGAATGTCTGACTCCGGACATTGTCCCCAGAGGTGCCT			
7542 T	G	S	TGTATCTGGAGAGCTCAGAATGTGTGACTCCGGACATTGTCCCCAGAGGTGCCT			
			ACTTCTAGAGCTTCTCTGCGGATAGTCTGTATCTGGAGAGCTCAGAATGT[CG]TGACTCCGGACATTGTCCCCAGAGGTGCCTCATGCGGAGGGGGATCCA			
7542 IS	[CG]		TG		ctg16400	17
7572 I		A	GAACAGCCTGAACGCCCATCACCTGAAGAAGAT			
7572 P	A	A	CGCGCCGAGGAATCGAGACGCAGTCCA			
7572 P	G	A	CGCGCCGAGGGATCGAGACGCAGTCCA			
7572 T	A	A	TGTGTGGACTGCGTCTCGATTTCTTCTTCAGGTGATGGGCGTTCAGGCTGTTCCC			
7572 T	G	A	TGTGTGGACTGCGTCTCGATCTCTTCTTCAGGTGATGGGCGTTCAGGCTGTTCCC			
			ACCACAGCCAAGCAGTGGGAACAGCCTGAACGCCCATCACCTGAAGAAGA[AG]ATCGAGACGCAGTCCACACATCAACGGAGCATCCTTCAGTCATGAAAT			
7572 IS	[AG]		AA		MULTIPLE	MULTIPLE
7637 I		S	GCTCAAGTTCACCTAGCCAGTTTGTAGCAGAGCCT			
7637 P	G	S	CGCGCCGAGGCGGACCCCCATCAAGG			
7637 P	T	S	CGCGCCGAGGAGGACCCCCATCAAGG			
7637 T	G	S	GGTACCTTGATGGGGGTCCGGGCTCTGCTACAAACTGGCTAGGTGAACTTGAGCAA			
7637 T	T	S	GGTACCTTGATGGGGGTCCTGGCTCTGCTACAAACTGGCTAGGTGAACTTGAGCAA			
			GCAGCCTGAGAGAAAGATCGTCGCGTGAGGGGGTACCTTGATGGGGGTCC[GT]GGCTCTGCTACAAACTGGCTAGGTGAACTTGAGCAAATCCCTCCCTC			
7637 IS	[GT]		TCT		ctg13103	9
14734 I		A	CATGAGATAAATATTACTAATTTTAAAAAGGTGGGTCTTTTCTGGGGGTAC			
14734 P	T	A	CGCGCCGAGGTGTTGAATTGAAGATGGTGTTCAY			
14734 P	A	A	CGCGCCGAGGAGTTGAATTGAAGATGGTGTTCAY			
14734 T	T	A	GACCTGAACACCATCTTCAATTCAACATACCCCCAGAAAAGACCCACCTTTTTAAAATTAGTAATATTTATCTCATG			
14734 T	A	A	GACCTGAACACCATCTTCAATTCAACTTACCCCCAGAAAAGACCCACCTTTTTAAAATTAGTAATATTTATCTCATG			

FIGURE 129E

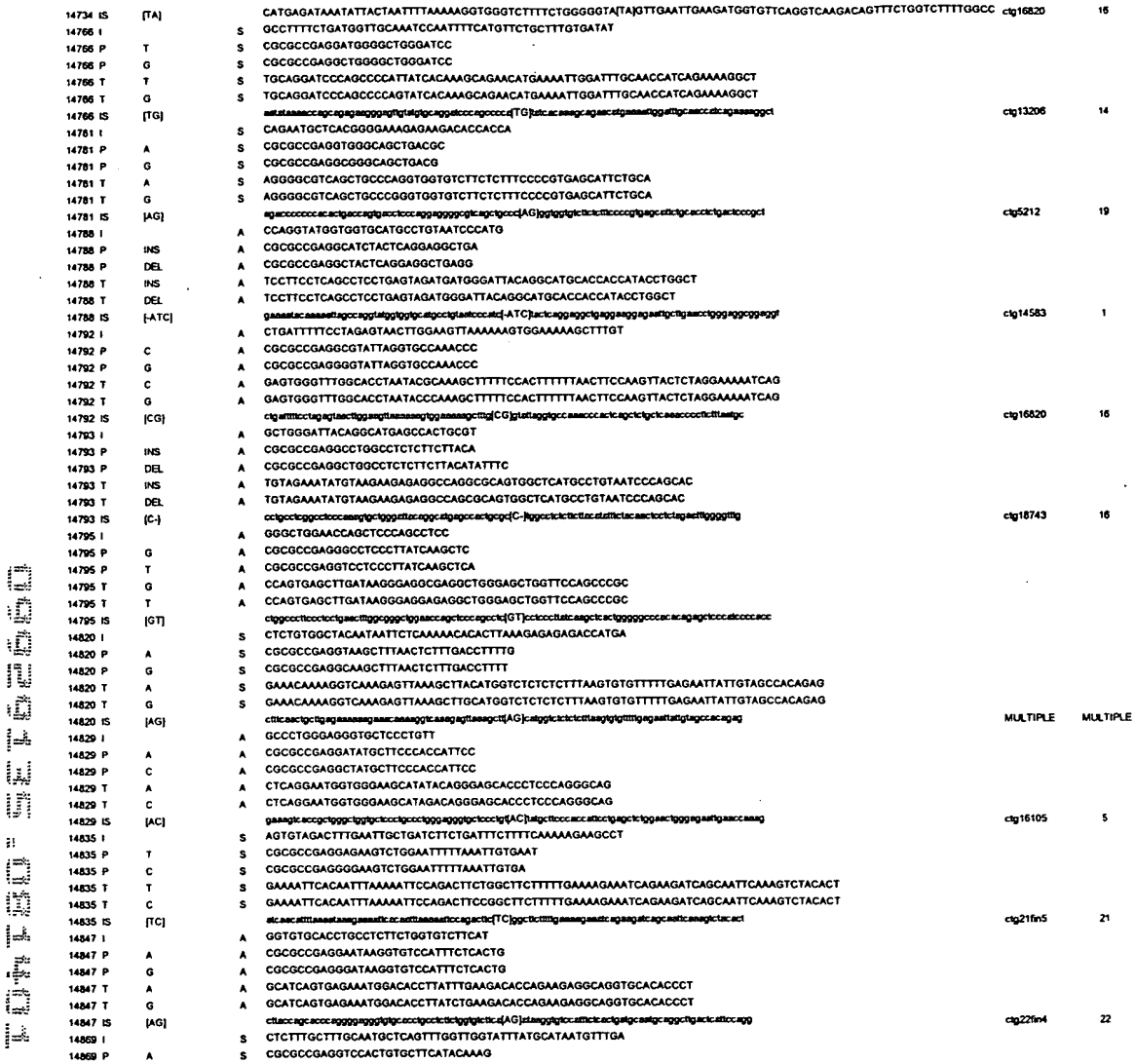


FIGURE 129E

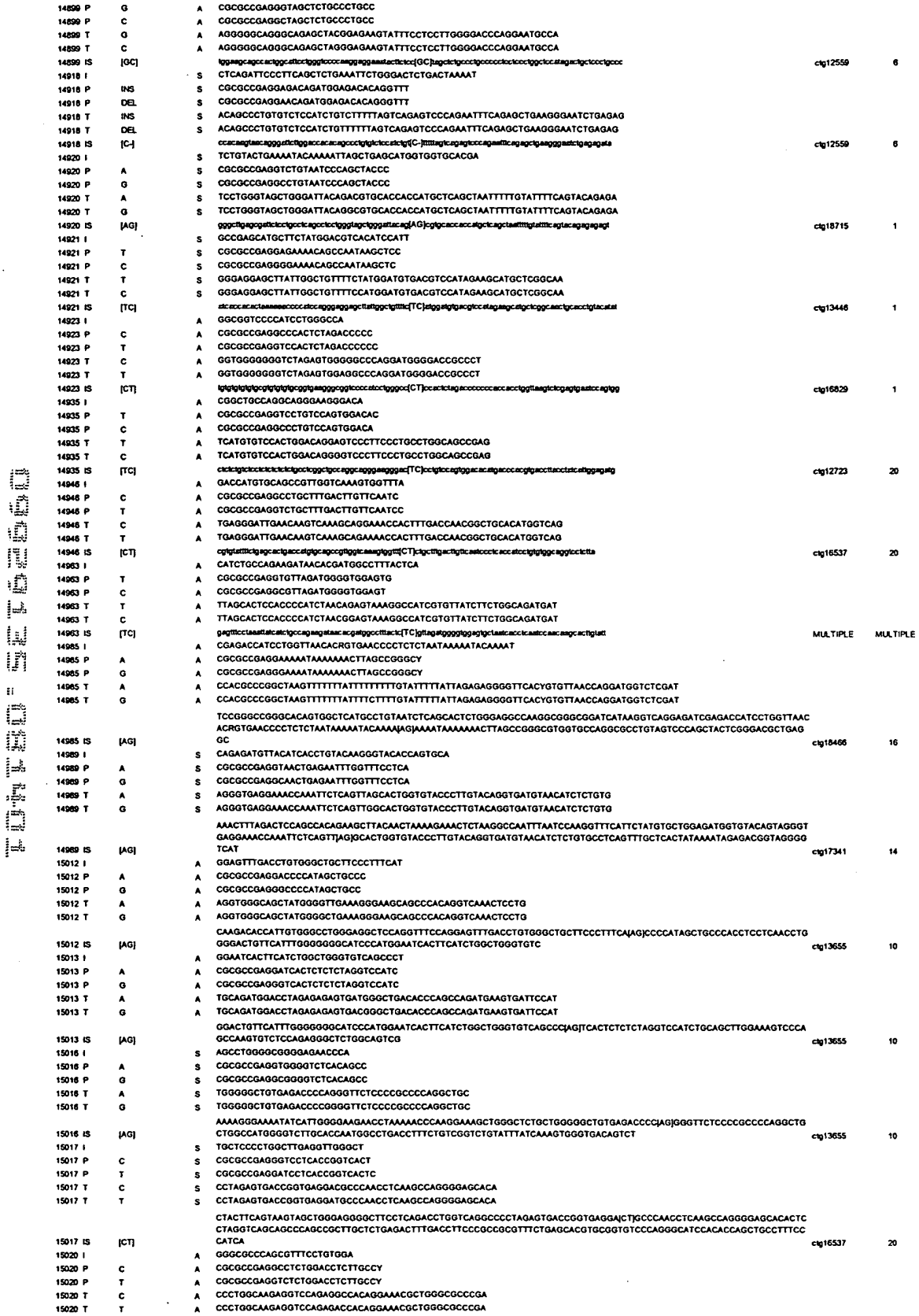
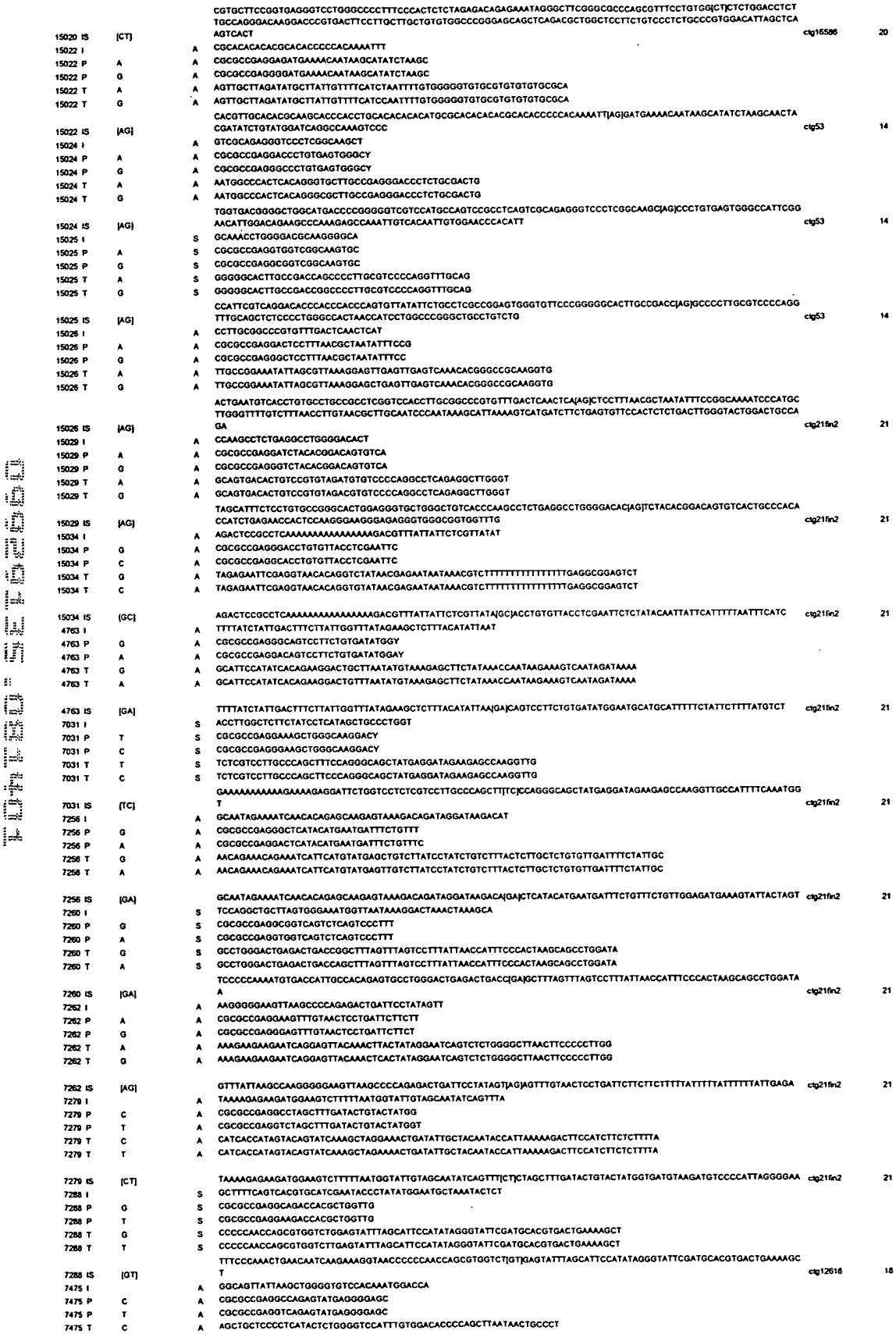


FIGURE 129E


CGTGCTTCCGGTGAGGGTCCTGGGCCCCTTTCCCACTCTCTAGAGACAGAGAAATAGGGCTTCGGGCGCCCAGCGTTTCCTGTGG[CT]CTCTGGACCTCT
TGCCAGGGACAAGGACCCGTGACTTCCTTGCTTGCTGTGTGGCCCGGGAGCAGCTCAGACGCTGGCTCCTTCTGTCCCTCTGCCCGTGGACATTAGCTCA
15020 tS [CT] AGTCACT ctg16586 20
15022 I A CGCACACACACGCACACCCCCACAAAATTT
15022 P A A CGCGCCGAGGAGATGAAAACAATAAGCATATCTAAGC
15022 P G A CGCGCCGAGGGGATGAAAACAATAAGCATATCTAAGC
15022 T A A AGTTGCTTAGATATGCTTATTGTTTTCATCTAATTTTGTGGGGGTGTGCGTGTGTGTGCGCA
15022 T G A AGTTGCTTAGATATGCTTATTGTTTTCATCCAATTTTGTGGGGGTGTGCGTGTGTGTGCGCA
CACGTTGCACACGCAAGCACCCACCTGCACACACACATGCGCACACACACGCACACCCCCACAAAATT[AG]GATGAAAACAATAAGCATATCTAAGCAACTA
15022 tS [AG] CGATATCTGTATGGATCAGGCCAAAGTCCC ctg53 14
15024 I A GTCGCAGAGGGTCCCTCGGCAAGCT
15024 P A A CGCGCCGAGGACCCTGTGAGTGGGCY
15024 P G A CGCGCCGAGGGCCCTGTGAGTGGGCY
15024 T A A AATGGCCCACTCACAGGGTGCTTGCCGAGGGACCCTCTGCGACTG
15024 T G A AATGGCCCACTCACAGGGCGCTTGCCGAGGGACCCTCTGCGACTG
TGGTGACGGGGCTGGCATGACCCCGGGGGTCGTCCATGCCAGTCCGCCTCAGTCGCAGAGGGTCCCTCGGCAAGC[AG]CCCTGTGAGTGGGCCATTCGG
15024 tS [AG] AACATTGGACAGAAGCCCAAAGAGCCAAATTGTCACAATTGTGGAACCCACATT ctg53 14
15025 I S GCAAACCTGGGGACGCAAGGGGCA
15025 P A S CGCGCCGAGGTGGTCGGCAAGTGC
15025 P G S CGCGCCGAGGCGGTCGGCAAGTGC
15025 T A S GGGGGCACTTGCCGACCAGCCCCTTGCGTCCCCAGGTTTGCAG
15025 T G S GGGGGCACTTGCCGACCGGCCCCTTGCGTCCCCAGGTTTGCAG
CCATTCGTCAGGACACCCACCCACCCAGTGTTATATTCTGCCTCGCCGGAGTGGGTGTTCCCGGGGGCACTTGCCGACC[AG]GCCCCTTGCGTCCCCAGG
15025 tS [AG] TTTGCAGCTCTCCCCTGGGCCACTAACCATCCTGGCCCGGGCTGCCTGTCTG ctg53 14
15026 I A CCTTGCGGCCCGTGTTTGACTCAACTCAT
15026 P A A CGCGCCGAGGACTCCTTTAACGCTAATATTTCCG
15026 P G A CGCGCCGAGGGCTCCTTTAACGCTAATATTTCC
15026 T A A TTGCCGGAAATATTAGCGTTAAAGGAGTTGAGTTGAGTCAAACACGGGCCGCAAGGTG
15026 T G A TTGCCGGAAATATTAGCGTTAAAGGAGCTGAGTTGAGTCAAACACGGGCCGCAAGGTG
ACTGAATGTCACCTGTGCCTGCCGCCTCGGTCCACCTTGCGGCCCGTGTTTGACTCAACTCA[AG]CTCCTTTAACGCTAATATTTCCGGCAAAATCCCATGC
TTGGGTTTTGTCTTTAACCTTGTAACGCTTGCAATCCCAATAAAGCATTAAAAGTCATGATCTTCTGAGTGTTCCACTCTCTGACTTGGGTACTGGACTGCCA
15026 tS [AG] GA ctg21fin2 21
15029 I A CCAAGCCTCTGAGGCCTGGGGACACT
15029 P A A CGCGCCGAGGATCTACACGGACAGTGTCA
15029 P G A CGCGCCGAGGGTCTACACGGACAGTGTCA
15029 T A A GCAGTGACACTGTCCGTGTAGATGTGTCCCCAGGCCTCAGAGGCTTGGGT
15029 T G A GCAGTGACACTGTCCGTGTAGACGTGTCCCCAGGCCTCAGAGGCTTGGGT
TAGCATTTCTCCTGTGCCGGGCACTGGAGGGTGCTGGGCTGTCACCCAAGCCTCTGAGGCCTGGGGACAC[AG]TCTACACGGACAGTGTCACTGCCCACA
15029 tS [AG] CCATCTGAGAACCACTCCAAGGGAAGGGAGAGGGTGGGCGGTGGTTTG ctg21fin2 21
15034 I A AGACTCCGCCTCAAAAAAAAAAAAAAAAGACGTTTATTATTCTCGTTATAT
15034 P G A CGCGCCGAGGGACCTGTGTTACCTCGAATTC
15034 P C A CGCGCCGAGGCACCTGTGTTACCTCGAATTC
15034 T G A TAGAGAATTCGAGGTAACACAGGTCTATAACGAGAATAATAAACGTCTTTTTTTTTTTTTTTTGAGGCGGAGTCT
15034 T C A TAGAGAATTCGAGGTAACACAGGTGTATAACGAGAATAATAAACGTCTTTTTTTTTTTTTTTTGAGGCGGAGTCT
15034 tS [GC] AGACTCCGCCTCAAAAAAAAAAAAAAAAGACGTTTATTATTCTCGTTATA[GC]ACCTGTGTTACCTCGAATTCTCTATACAATTATTCATTTTTAATTTCATC ctg21fin2 21
4763 I A TTTTATCTATTGACTTTCTTATTGGTTTATAGAAGCTCTTTACATATTAA
4763 P G A CGCGCCGAGGGCAGTCCTTCTGTGATATGGY
4763 P A A CGCGCCGAGGACAGTCCTTCTGTGATATGGAY
4763 T G A GCATTCCATATCACAGAAGGACTGCTTAATATGTAAAGAGCTTCTATAAACCAATAAGAAAGTCAATAGATAAAA
4763 T A A GCATTCCATATCACAGAAGGACTGTTTAATATGTAAAGAGCTTCTATAAACCAATAAGAAAGTCAATAGATAAAA
4763 tS [GA] TTTTATCTATTGACTTTCTTATTGGTTTATAGAAGCTCTTTACATATTAA[GA]CAGTCCTTCTGTGATATGGAATGCATGCATTTTTCTATTCTTTTATGTCT ctg21fin2 21
7031 I S ACCTTGGCTCTTCTATCCTCATAGCTGCCCTGGT
7031 P T S CGCGCCGAGGAAAGCTGGGCAAGGACY
7031 P C S CGCGCCGAGGGAAGCTGGGCAAGGACY
7031 T T S TCTCGTCCTTGCCCAGCTTCCAGGGCAGCTATGAGGATAGAAGAGCCAAGGTTG
7031 T C S TCTCGTCCTTGCCCAGCTTCCCAGGGCAGCTATGAGGATAGAAGAGCCAAGGTTG
GAAAAAAAAAAGAAAAGAGGATTCTGGTCCTCTCGTCCTTGCCCAGCTT[TC]CCAGGGCAGCTATGAGGATAGAAGAGCCAAGGTTGCCATTTTCAAATGG
7031 tS [TC] T ctg21fin2 21
7256 I A GCAATAGAAAATCAACACAGAGCAAGAGTAAAGACAGATAGGATAAGACAT
7256 P G A CGCGCCGAGGGCTCATACATGAATGATTTCTGTTT
7256 P A A CGCGCCGAGGACTCATACATGAATGATTTCTGTTTC
7256 T G A AACAGAAACAGAAATCATTCATGTATGAGCTGTCTTATCCTATCTGTCTTTACTCTTGCTCTGTGTTGATTTTCTATTGC
7256 T A A AACAGAAACAGAAATCATTCATGTATGAGTTGTCTTATCCTATCTGTCTTTACTCTTGCTCTGTGTTGATTTTCTATTGC
7256 tS [GA] GCAATAGAAAATCAACACAGAGCAAGAGTAAAGACAGATAGGATAAGACA[GA]CTCATACATGAATGATTTCTGTTTCTGTTGGAGATGAAAGTATTACTAGT ctg21fin2 21
7260 I S TCCAGGCTGCTTAGTGGGAAATGGTTAATAAAGGACTAAACTAAAGCA
7260 P G S CGCGCCGAGGCGGTCAGTCTCAGTCCCTTT
7260 P A S CGCGCCGAGGTGGTCAGTCTCAGTCCCTTT
7260 T G S GCCTGGGACTGAGACTGACCGGCTTTAGTTTAGTCCTTTATTAACCATTTCCCACTAAGCAGCCTGGATA
7260 T A S GCCTGGGACTGAGACTGACCAGCTTTAGTTTAGTCCTTTATTAACCATTTCCCACTAAGCAGCCTGGATA
TCCCCCAAAATGTGACCATTGCCACAGAGTGCCTGGGACTGAGACTGACC[GA]GCTTTAGTTTAGTCCTTTATTAACCATTTCCCACTAAGCAGCCTGGATA
7260 tS [GA] A ctg21fin2 21
7262 I A AAGGGGGAAGTTAAGCCCCAGAGACTGATTCCTATAGTT
7262 P A A CGCGCCGAGGAAGTTTGTAACTCCTGATTCTTCTT
7262 P G A CGCGCCGAGGGAGTTTGTAACTCCTGATTCTTCT
7262 T A A AAAGAAGAAGAATCAGGAGTTACAAACTTACTATAGGAATCAGTCTCTGGGGCTTAACTTCCCCCTTGG
7262 T G A AAAGAAGAAGAATCAGGAGTTACAAACTCACTATAGGAATCAGTCTCTGGGGCTTAACTTCCCCCTTGG
7262 tS [AG] GTTTATTAAGCCAAGGGGGAAGTTAAGCCCCAGAGACTGATTCCTATAGT[AG]AGTTTGTAACTCCTGATTCTTCTTCTTTTTATTTTTATTTTTTATTGAGA ctg21fin2 21
7279 I A TAAAAGAGAAGATGGAAGTCTTTTTAATGGTATTGTAGCAATATCAGTTTA
7279 P C A CGCGCCGAGGCCTAGCTTTGATACTGTACTATGG
7279 P T A CGCGCCGAGGTCTAGCTTTGATACTGTACTATGGT
7279 T C A CATCACCATAGTACAGTATCAAAGCTAGGAAACTGATATTGCTACAATACCATTAAAAAGACTTCCATCTTCTCTTTTA
7279 T T A CATCACCATAGTACAGTATCAAAGCTAGAAAACTGATATTGCTACAATACCATTAAAAAGACTTCCATCTTCTCTTTTA
7279 tS [CT] TAAAAGAGAAGATGGAAGTCTTTTTAATGGTATTGTAGCAATATCAGTTT[CT]CTAGCTTTGATACTGTACTATGGTGATGTAAGATGTCCCCATTAGGGGAA ctg21fin2 21
7288 I S GCTTTTCAGTCACGTGCATCGAATACCCTATATGGAATGCTAAATACTCT
7288 P G S CGCGCCGAGGCAGACCACGCTGGTTG
7288 P T S CGCGCCGAGGAAGACCACGCTGGTTG
7288 T G S CCCCCAACCAGCGTGGTCTGGAGTATTTAGCATTCCATATAGGGTATTCGATGCACGTGACTGAAAAGCT
7288 T T S CCCCCAACCAGCGTGGTCTTGAGTATTTAGCATTCCATATAGGGTATTCGATGCACGTGACTGAAAAGCT
TTTCCCAAACTGAACAATCAAGAAAGGTAACCCCCCAACCAGCGTGGTCT[GT]GAGTATTTAGCATTCCATATAGGGTATTCGATGCACGTGACTGAAAAGC
7288 tS [GT] T ctg12616 18
7475 I A GGCAGTTATTAAGCTGGGGTGTCCACAAATGGACCA
7475 P C A CGCGCCGAGGCCAGAGTATGAGGGGAGC
7475 P T A CGCGCCGAGGTCAGAGTATGAGGGGAGC
7475 T C A AGCTGCTCCCCTCATACTCTGGGGTCCATTTGTGGACACCCCAGCTTAATAACTGCCCT

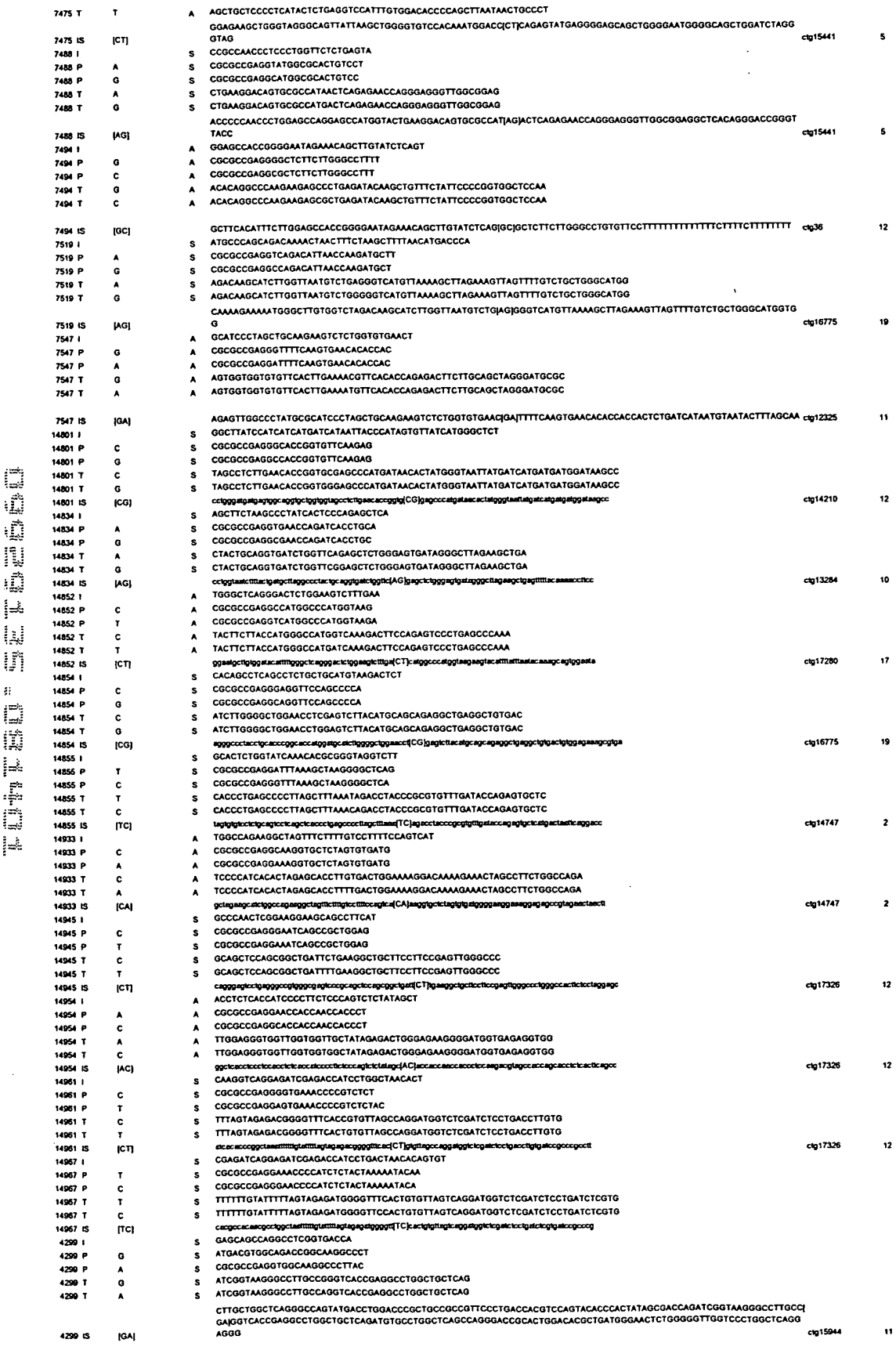

7475 T T A AGCTGCTCCCCTCATACTCTGAGGTCCATTTGTGGACACCCCAGCTTAATAACTGCCCT
7475 IS [CT] GGAGAAGCTGGGTAGGGCAGTTATTAAGCTGGGGTGTCCACAAATGGACC[CT]CAGAGTATGAGGGGAGCAGCTGGGGAATGGGGCAGCTGGATCTAGG GTAG ctg15441 5
7488 I S CCGCCAACCCTCCCTGGTTCTCTGAGTA
7488 P A S CGCGCCGAGGTATGGCGCACTGTCCT
7488 P G S CGCGCCGAGGCATGGCGCACTGTCC
7488 T A S CTGAAGGACAGTGCGCCATAACTCAGAGAACCAGGGAGGGTTGGCGGAG
7488 T G S CTGAAGGACAGTGCGCCATGACTCAGAGAACCAGGGAGGGTTGGCGGAG
7488 IS [AG] ACCCCCAACCCTGGAGCCAGGAGCCATGGTACTGAAGGACAGTGCGCCAT[AG]ACTCAGAGAACCAGGGAGGGTTGGCGGAGGCTCACAGGGACCGGGT TACC ctg15441 5
7494 I A GGAGCCACCGGGGAATAGAAACAGCTTGTATCTCAGT
7494 P G A CGCGCCGAGGGGCTCTTCTTGGGCCTTTT
7494 P C A CGCGCCGAGGCGCTCTTCTTGGGCCTTT
7494 T G A ACACAGGCCCAAGAAGAGCCCTGAGATACAAGCTGTTTCTATTCCCCGGTGGCTCCAA
7494 T C A ACACAGGCCCAAGAAGAGCGCTGAGATACAAGCTGTTTCTATTCCCCGGTGGCTCCAA
7494 IS [GC] GCTTCACATTTCTTGGAGCCACCGGGGAATAGAAACAGCTTGTATCTCAG[GC]GCTCTTCTTGGGCCTGTGTTCCTTTTTTTTTTTTTTCTTTTCTTTTTTT ctg36 12
7519 I S ATGCCCAGCAGACAAAACTAACTTTCTAAGCTTTTAACATGACCCA
7519 P A S CGCGCCGAGGTCAGACATTAACCAAGATGCTT
7519 P G S CGCGCCGAGGCCAGACATTAACCAAGATGCT
7519 T A S AGACAAGCATCTTGGTTAATGTCTGAGGGTCATGTTAAAAGCTTAGAAAGTTAGTTTTGTCTGCTGGGCATGG
7519 T G S AGACAAGCATCTTGGTTAATGTCTGGGGGTCATGTTAAAAGCTTAGAAAGTTAGTTTTGTCTGCTGGGCATGG
7519 IS [AG] CAAAAGAAAAATGGGCTTGTGGTCTAGACAAGCATCTTGGTTAATGTCTG[AG]GGGTCATGTTAAAAGCTTAGAAAGTTAGTTTTGTCTGCTGGGCATGGTG G ctg16775 19
7547 I A GCATCCCTAGCTGCAAGAAGTCTCTGGTGTGAACT
7547 P G A CGCGCCGAGGGTTTTCAAGTGAACACACCAC
7547 P A A CGCGCCGAGGATTTTCAAGTGAACACACCAC
7547 T G A AGTGGTGGTGTGTTCACTTGAAAACGTTCACACCAGAGACTTCTTGCAGCTAGGGATGCGC
7547 T A A AGTGGTGGTGTGTTCACTTGAAAATGTTCACACCAGAGACTTCTTGCAGCTAGGGATGCGC
7547 IS [GA] AGAGTTGGCCCTATGCGCATCCCTAGCTGCAAGAAGTCTCTGGTGTGAAC[GA]TTTTCAAGTGAACACACCACCACTCTGATCATAATGTAATACTTTAGCAA ctg12325 11
14801 I S GGCTTATCCATCATCATGATCATAATTACCCATAGTGTTATCATGGGCTCT
14801 P C S CGCGCCGAGGGCACCGGTGTTCAAGAG
14801 P G S CGCGCCGAGGCCACCGGTGTTCAAGAG
14801 T C S TAGCCTCTTGAACACCGGTGCGAGCCCATGATAACACTATGGGTAATTATGATCATGATGATGGATAAGCC
14801 T G S TAGCCTCTTGAACACCGGTGGGAGCCCATGATAACACTATGGGTAATTATGATCATGATGATGGATAAGCC
14801 IS [CG] cctgggatgatgagtggcaggtgctggtggtagcctctgaaccacccgtg[CG]gagcccatgatacacactatgggtaattatgatcatgatgatggatcaagcc ctg14210 12
14834 I S AGCTTCTAAGCCCTATCACTCCCAGAGCTCA
14834 P A S CGCGCCGAGGTGAACCAGATCACCTGCA
14834 P G S CGCGCCGAGGCGAACCAGATCACCTGC
14834 T A S CTACTGCAGGTGATCTGGTTCAGAGCTCTGGGAGTGATAGGGCTTAGAAGCTGA
14834 T G S CTACTGCAGGTGATCTGGTTCGGAGCTCTGGGAGTGATAGGGCTTAGAAGCTGA
14834 IS [AG] cctggtaatcttttactgatgcttaggcccctactgcaggtgatctggttc[AG]gagctctgggagtgatgggcttagaagctgagttttacaaaaccctcc ctg13284 10
14852 I A TGGGCTCAGGGACTCTGGAAGTCTTTGAA
14852 P C A CGCGCCGAGGCCATGGCCCATGGTAAG
14852 P T A CGCGCCGAGGTCATGGCCCATGGTAAGA
14852 T C A TACTTCTTACCATGGGCCATGGTCAAAGACTTCCAGAGTCCCTGAGCCCAAA
14852 T T A TACTTCTTACCATGGGCCATGATCAAAGACTTCCAGAGTCCCTGAGCCCAAA
14852 IS [CT] ggaatgctgtggatacatttgggctcagggactctggaagtcttga[CT]catggcccatggtaagaagtacatttaatttaatacaaagcagtggaata ctg17280 17
14854 I S CACAGCCTCAGCCTCTGCTGCATGTAAGACTCT
14854 P C S CGCGCCGAGGGAGGTTCCAGCCCCA
14854 P G S CGCGCCGAGGCAGGTTCCAGCCCCA
14854 T C S ATCTTGGGGCTGGAACCTCGAGTCTTACATGCAGCAGAGGCTGAGGCTGTGAC
14854 T G S ATCTTGGGGCTGGAACCTGGAGTCTTACATGCAGCAGAGGCTGAGGCTGTGAC
14854 IS [CG] agggcccctacctgcacccggcaccatggatgcatctgggggctggaaacct[CG]gagtctacatgcagcagaggctgaggctgtgactgtggaaaagcgtga ctg16775 19
14855 I S GCACTCTGGTATCAAACACGCGGGTAGGTCTT
14855 P T S CGCGCCGAGGATTTAAAGCTAAGGGGCTCAG
14855 P C S CGCGCCGAGGGTTTAAAGCTAAGGGGCTCA
14855 T T S CACCCTGAGCCCCTTAGCTTTAAATAGACCTACCCGCGTGTTTGATACCAGAGTGCTC
14855 T C S CACCCTGAGCCCCTTAGCTTTAAACAGACCTACCCGCGTGTTTGATACCAGAGTGCTC
14855 IS [TC] tagtgtgtcctctgcagtcctcagctcaccctgagcccctttagctttaaac[TC]agacctacccgcgtgtttgatcccagagtgctcctgtactaatttcaggacc ctg14747 2
14933 I A TGGCCAGAAGGCTAGTTTCTTTTGTCCTTTTCCAGTCAT
14933 P C A CGCGCCGAGGCAAGGTGCTCTAGTGTGATG
14933 P A A CGCGCCGAGGAAAGGTGCTCTAGTGTGATG
14933 T C A TCCCCATCACACTAGAGCACCTTGTGACTGGAAAAGGACAAAAGAAACTAGCCTTCTGGCCAGA
14933 T A A TCCCCATCACACTAGAGCACCTTTTGACTGGAAAAGGACAAAAGAAACTAGCCTTCTGGCCAGA
14933 IS [CA] gctagaagcatctggccagagggctagttcttgtcctttccagtca[CA]aaggtgctctagtgtgatgggggaaggaaaggagagccgtagaactaactt ctg14747 2
14945 I S GCCCAACTCGGAAGGAAGCAGCCTTCAT
14945 P C S CGCGCCGAGGGAATCAGCCGCTGGAG
14945 P T S CGCGCCGAGGAAATCAGCCGCTGGAG
14945 T C S GCAGCTCCAGCGGCTGATTCTGAAGGCTGCTTCCTTCCGAGTTGGGCCC
14945 T T S GCAGCTCCAGCGGCTGATTTTGAAGGCTGCTTCCTTCCGAGTTGGGCCC
14945 IS [CT] cagggagtcctgagggccgtgggcgagtcccgcagctccagcggctgat[CT]gaaggctgcttccttccgagttgggcccttgggccacttcttcctaggagc ctg17326 12
14954 I A ACCTCTCACCATCCCCTTCTCCCAGTCTCTATAGCT
14954 P A A CGCGCCGAGGAACCACCAACCACCCT
14954 P C A CGCGCCGAGGCACCACCAACCACCCT
14954 T A A TTGGAGGGTGGTTGGTGGTTGCTATAGAGACTGGGAGAAGGGGATGGTGAGAGGTGG
14954 T C A TTGGAGGGTGGTTGGTGGTGGCTATAGAGACTGGGAGAAGGGGATGGTGAGAGGTGG
14954 IS [AC] ggctcacctccctccacctctcaccatcccctctccccagtctctatagc[AC]accaccaaccaccctccaagacgtagccaccagcacctctcactccagcc ctg17326 12
14961 I S CAAGGTCAGGAGATCGAGACCATCCTGGCTAACACT
14961 P C S CGCGCCGAGGGGTGAAACCCCGTCTCT
14961 P T S CGCGCCGAGGAGTGAAACCCCGTCTCTAC
14961 T C S TTTAGTAGAGACGGGGTTTCACCGTGTTAGCCAGGATGGTCTCGATCTCCTGACCTTGTG
14961 T T S TTTAGTAGAGACGGGGTTTCACTGTGTTAGCCAGGATGGTCTCGATCTCCTGACCTTGTG
14961 IS [CT] ctcactcccggctaaattttttgtatttttagtagagacggggtttcac[CT]gtgttagccaggatggtctcgatctcctgacctgtgatccgcccgcctt ctg17326 12
14967 I S CGAGATCAGGAGATCGAGACCATCCTGACTAACACAGTGT
14967 P T S CGCGCCGAGGAAACCCCATCTCTACTAAAAATACAA
14967 P C S CGCGCCGAGGGAACCCCATCTCTACTAAAAATACA
14967 T T S TTTTTTGTATTTTTAGTAGAGATGGGGTTTCACTGTGTTAGTCAGGATGGTCTCGATCTCCTGATCTCGTG
14967 T C S TTTTTTGTATTTTTAGTAGAGATGGGGTTCCACTGTGTTAGTCAGGATGGTCTCGATCTCCTGATCTCGTG
14967 IS [TC] cacgccacaacgcctggctaatttttttgtatttttagtagagatggggttt[TC]cactgtgttagtcaggatggtctcgatctcctgatctcgtgatccgcccg
4299 I S GAGCAGCCAGGCCTCGGTGACCA
4299 P G S ATGACGTGGCAGACCGGCAAGGCCCT
4299 P A S CGCGCCGAGGTGGCAAGGCCCTTAC
4299 T G S ATCGGTAAGGGCCTTGCCGGGTCACCGAGGCCTGGCTGCTCAG
4299 T A S ATCGGTAAGGGCCTTGCCAGGTCACCGAGGCCTGGCTGCTCAG
4299 IS [GA] CTTGCTGGCTCAGGGCCAGTATGACCTGGACCCGCTGCCGCCGTTCCCTGACCACGTCCAGTACACCCACTATAGCGACCAGATCGGTAAGGGCCTTGCC[GA]GGTCACCGAGGCCTGGCTGCTCAGATGTGCCTGGCTCAGCCAGGGACCGCACTGGACACGCTGATGGGAACTCTGGGGGTTGGTCCCTGGCTCAGG AGGG ctg15944 11

FIGURE 129E



4439 I		S	GAAACAGATTTATTTGCCATGTATTTAGGTAAAATGACTGCTTTAATTGAAAT				
4439 P	T	S	CGCGCCGAGGACATTGGTGCTTATGAGTAA				
4439 P	G	S	ATGACGTGGCAGACCCATTGGTGCTTATGAGTAA				
4439 T	T	S	TCACTTACTCATAAGCACCAATGTTTTCAATTAAAGCAGTCATTTTACCTAAATACATGGCAAATAAATCTGTTTCGC				
4439 T	G	S	TCACTTACTCATAAGCACCAATGGTTTCAATTAAAGCAGTCATTTTACCTAAATACATGGCAAATAAATCTGTTTCGC				
4439 IS	[TG]		AGCTAACTCTGGCACCTTAACATGAAGTGTAGGGTCTATGTAATTTAAGGGTATTTATGAAGAAATAAAATAGTAATTCACTTACTCATAAGCACCAATG[TG]T TTCAATTAAAGCAGTCATTTTACCTAAATACATGGCAAATAAATCTGTTTCGCTAGATGTCTAAACTGAGTAAAAATAGACAATATTTTGACTTTTTTT	ctg15285	12		
4445 I		A	CCTCCTATGGGTTGTCACCAAGCTAGGTGCTATTC				
4445 P	G	A	ATGACGTGGCAGACGGTCATCTGCTCCTGTY				
4445 P	T	A	CGCGCCGAGGTGTCATCTGCTCCTGTTY				
4445 T	G	A	TGTGAACAGGAGCAGATGACCAATAGCACCTAGCTTGGTGACAACCCATAGGAGGTA				
4445 T	T	A	TGTGAACAGGAGCAGATGACAAATAGCACCTAGCTTGGTGACAACCCATAGGAGGTA				
4445 IS	[GT]		CCATCCTTGCCAATAGTGTCATCCTCACAGTGAACACTCAGTGGCCCATGGCATTTTATAGGCATACCTCCTATGGGTTGTCACCAAGCTAGGTGCTATT[GT]GTCATCTGCTCCTGTTCACACCAGAGAACCAGGCTACAAGAGAAAAAGCAGAGGCCAAGAGTTTGAGGGGAGAAATAGTCGGTGAAGAAACCGTATCCAT				CYP19
4477 I		S	GCTCCTCATCTCCAGTTCTTAGAGCTGACACTTTGAGTATATGACT				
4477 P	C	S	ATGACGTGGCAGACGGTTACTGTGTTAGCATGCY				
4477 P	T	S	CGCGCCGAGGAGTTACTGTGTTAGCATGCY				
4477 T	C	S	GTGTGCATGCTAACACAGTAACCGTCATATACTCAAAGTGTCAGCTCTAAGAACTGGAGATGAGGAGCTG				
4477 T	T	S	GTGTGCATGCTAACACAGTAACTGTCATATACTCAAAGTGTCAGCTCTAAGAACTGGAGATGAGGAGCTG				
4477 IS	[CT]		AGCCTGGTCCCCAGAGGCCTGAAGAGCGCCTTGTTTATGTGGTGACCTCAAGAGGGGCTGCTCCTGCACCAAGGCTATGTGTGCATGCTAACACAGTAAC[CT]GTCATATACTCAAAGTGTCAGCTCTAAGAACTGGAGATGAGGAGCTGCAAGCCACTCTACAGTTATCAAAGGCACAGCTGAGGGGGTTTGTGCTGACCA A	ctg16279	17		
4496 I		A	CCATGTGCCAAACCAGGACACCAGAGTGAAGT				
4496 P	G	A	ATGACGTGGCAGACGCCAGAAGCTCACATG				
4496 P	A	A	CGCGCCGAGGACCAGAAGCTCACATGG				
4496 T	G	A	GCTTCCATGTGAGCTTCTGGCCTTCACTCTGGTGTCCTGGTTTGGCACATGGCA				
4496 T	A	A	GCTTCCATGTGAGCTTCTGGTCTTCACTCTGGTGTCCTGGTTTGGCACATGGCA				
4496 IS	[GA]		AAGGCCAGCAGTGCTGATGGTCCCAGGCATGTAGCTGGTCTGAGTTCATAGAAGGACCACAGCGCCCTGCCATGTGCCAAACCAGGACACCAGAGTGAAG[GA]CCAGAAGCTCACATGGAAGCAGCTTAGTTCCCTGGTAACCTCGAGATGCTGATGAGACAGAGCAGAGCAGAGGGAACCCTCTCCCTCCATATCCCATC CT	ctg16279	17		
4649 I		S	GGTCTGATCATCTTCTTGACAGAAAAACTTGTTTTGACAGCACATTTC				
4649 P	C	S	ATGACGTGGCAGACGAAATGCCGAGTGTTTTGY				
4649 P	A	S	CGCGCCGAGGTAAATGCCGAGTGTTTTGTY				
4649 T	C	S	CATAACAAAACACTCGGCATTTCAAATGTGCTGTCAAAACAAGTTTTTCTGTCAAGAAGATGATCAGACCTT				
4649 T	A	S	CATAACAAAACACTCGGCATTTAAAATGTGCTGTCAAAACAAGTTTTTCTGTCAAGAAGATGATCAGACCTT				
4649 IS	[CA]		TTCATCAACACTTCTTGATTGCAATTGATTCTTTTTAAAGTGTTTCTGTTATTAACAAACATCACTCTGCTGCTTAGACATAACAAAACACTCGGCATTT[CA]AA ATGTGCTGTCAAAACAAGTTTTTCTGTCAAGAAGATGATCAGACCTTGGATCAGATGAACTCTTAGAAATGAAGGCAGAAAAATGTCATTGAGTAATA	ctg13446	1		IL15
4657 I		S	GTTCTAGGGAGTTTGGAGCCTCGGGGTTC				
4657 P	C	S	ATGACGTGGCAGACGGGAAAGCAGTTCCAGY				
4657 P	A	S	CGCGCCGAGGTGGAAAGCAGTTCCAGY				
4657 T	C	S	GAGGCTGGAACTGCTTTCCCAACCCCGAGGCTCCAAACTCCCTAGAACCC				
4657 T	A	S	GAGGCTGGAACTGCTTTCCAAACCCCGAGGCTCCAAACTCCCTAGAACCC				
4657 IS	[CA]		GTGACTCCCGTGCCAGATGCCTGTCTACTCAGCTTGGCTGCGGTACCAGGACCCTGGGCTAGTCTAGGGGGAAGAGGGTCGGAGGCTGGAACTGCTTTC C[CA]AACCCCGAGGCTCCAAACTCCCTAGAACCCCTGACATCCGCCCCCAATTCCCCCAAACCCATGACCCCCTAATATCACAAATGCTTTCCAAATCCCCC CG	ctg15649	2		
4859 I		S	CCGAAGAATTCCTGGAAGGTGTTCAGGAGAATGACAATT				
4859 P	T	S	CGCGCCGAGGATTATAGGGAGTCCAGAAGAG				
4859 P	C	S	ATGACGTGGCAGACGTTATAGGGAGTCCAGAAGA				
4859 T	T	S	CTTTCTCTTCTGGACTCCCTATAATATTGTCATTCTCCTGAACACCTTCCAGGAATTCTTCGGCC				
4859 T	C	S	CTTTCTCTTCTGGACTCCCTATAACATTGTCATTCTCCTGAACACCTTCCAGGAATTCTTCGGCC				
4859 IS	[TC]		GGCAGTGAGAGTCATCTTCACCATCATGATTGTTTACTTTCTCTTCTGGACTCCCTATAA[TC]ATTGTCATTCTCCTGAACACCTTCCAGGAATTCTTCGGCC TGAGTAACTGTGAAAGCACC	ctg14877	1		CCR2
4902 I		S	CCTCCAGGGACTGGCCTGTCCCCT				
4902 P	C	S	ATGACGTGGCAGACGATAGAATTGAAGCAGTCCA				
4902 P	T	S	CGCGCCGAGGAATAGAATTGAAGCAGTCCA				
4902 T	C	S	CCCGTGGACTGCTTCAATTCTATCGGGGACAGGCCAGTCCCTGGAGGCT				
4902 T	T	S	CCCGTGGACTGCTTCAATTCTATTGGGGACAGGCCAGTCCCTGGAGGCT				
4902 IS	[CT]		AGTGTAAAGAAAGGTTTACTCCTTGTATCATCCCCTCCCCGTGGACTGCTTCAATTCTAT[CT]GGGGACAGGCCAGTCCCTGGAGGCTGCAAGGAGCCACA AACCTTTCCCAGCTCACACTCT	ctg13446	1		
4907 I		S	GGCCTCTGCGCTGCAAACTCCAGCT				
4907 P	T	S	CGCGCCGAGGAAACACGAGAAAGCGC				
4907 P	C	S	ATGACGTGGCAGACGAACACGAGAAAGCGC				
4907 T	T	S	GGACGCGCTTTCTCGTGTTTGCTGGAGTTTGCAGCGCAGAGGCCCC				
4907 T	C	S	GGACGCGCTTTCTCGTGTTCGCTGGAGTTTGCAGCGCAGAGGCCCC				
4907 IS	[TC]		TTCTACAACCCAGACCCCATTCAGGGGTGGAGAGCAGCCCAGGACGCGCTTTCTCGTGTT[TC]GCTGGAGTTTGCAGCGCAGAGGCCCCTGCCGAGACTT CCCTCCAAGACAATATAAGCACT				
4943 I		S	GGTGCTTGATGGGGCAGGCCCCT				
4943 P	C	S	ATGACGTGGCAGACGCCCTGCTGATGCT				
4943 P	T	S	CGCGCCGAGGACCCTGCTGATGCTG				
4943 T	C	S	AGCACAGCATCAGCAGGGCGGGGCCTGCCCCATCAAGCACCCC				
4943 T	T	S	AGCACAGCATCAGCAGGGTGGGGCCTGCCCCATCAAGCACCCC				
4943 IS	[CT]		TCCACTGGCTGCTTCAGCAACAAGAGCGACAAGATGATGGTGAGCACAGCATCAGCAGGG[CT]GGGGCCTGCCCCATCAAGCACCCCCCCAGGAGCCACT GCCTCATCTGCCCTTTCCTCTGG	ctg15649	2		
5130 I		S	GTGAGAACTATAAAAGACTCGAAGACCAGGCCGGGA				
5130 P	A	S	CGCGCCGAAGGTGCGGTGGCTTACGY				
5130 P	G	S	ATGACGTGGCAGACCGCGGTGGCTTACY				
5130 T	A	S	CAGGCGTAAGCCACCGCACCCGGCCTGGTCTCGAGTCTTTTATAGTTCTCACTG				
5130 T	G	S	CAGGCGTAAGCCACCGCGCCCGGCCTGGTCTCGAGTCTTTTATAGTTCTCACTG				
5130 IS	[AG]		TCAAGTGATGCACCCACCTCGGCCTCTCAAAGTGCTGGGATTACAGGCGTAAGCCACCGC[AG]CCCGGCCTGGTCTCGAGTCTTTTATAGTTCTCACTGGC AGCTGTCACCAGCAATTTCTCT	ctg12567	16		
5132 I		S	CTCTTGTTCTGGCCCCTCCCTCACACAAAATT				
5132 P	G	S	CGCGCCGAGGCAGCTCTCCTTAACCCC				
5132 P	C	S	ATGACGTGGCAGACGAGCTCTCCTTAACCCC				
5132 T	G	S	GCGTGGGGTTAAGGAGAGCTGATTTTGTGTGAGGGAGGGGCCAGAACAAGAGCT				
5132 T	C	S	GCGTGGGGTTAAGGAGAGCTCATTTTGTGTGAGGGAGGGGCCAGAACAAGAGCT				
5132 IS	[GC]		TTTGTGGGTGGGCAGGGCCAGAGCTAGAGGTACAGGGTGAGCGTGGGGTTAAGGAGAGCT[GC]ATTTTGTGTGAGGGAGGGGCCAGAACAAGAGCTTCT CTCAGGGGATAGGGCCAGAAAAAA	ctg12567	16		
5143 I		S	CAATGTTGGGGAGCAGTGAATGTCTGTTGAAAGACAGAATAT				
5143 P	T	S	CGCGCCGAGGATGGATGAAGTCCAAAGGY				
5143 P	G	S	ATGACGTGGCAGACCTGGATGAAGTCCAAAGGY				
5143 T	T	S	CCTACCTTTGGACTTCATCCATTATTCTGTCTTTCAACAGACATTCACTGCTCCCCAACATTGTG				
5143 T	G	S	CCTACCTTTGGACTTCATCCAGTATTCTGTCTTTCAACAGACATTCACTGCTCCCCAACATTGTG				
5143 IS	[TG]		CCATCCCCGTCATCCCAAAGTAACATCGCTTGTAAATTTCCTACCTTTGGACTTCATCCA[TG]TATTCTGTCTTTCAACAGACATTCACTGCTCCCCAACATTG TGGCCGACATGGACGAAGT	ctg15968	12		
5235 I		S	CCTCGGCCACCCTGGTGGTCATCATA				
5235 P	A	S	CGCGCCGAGGTCCACACCCCTACAG				

FIGURE 129E

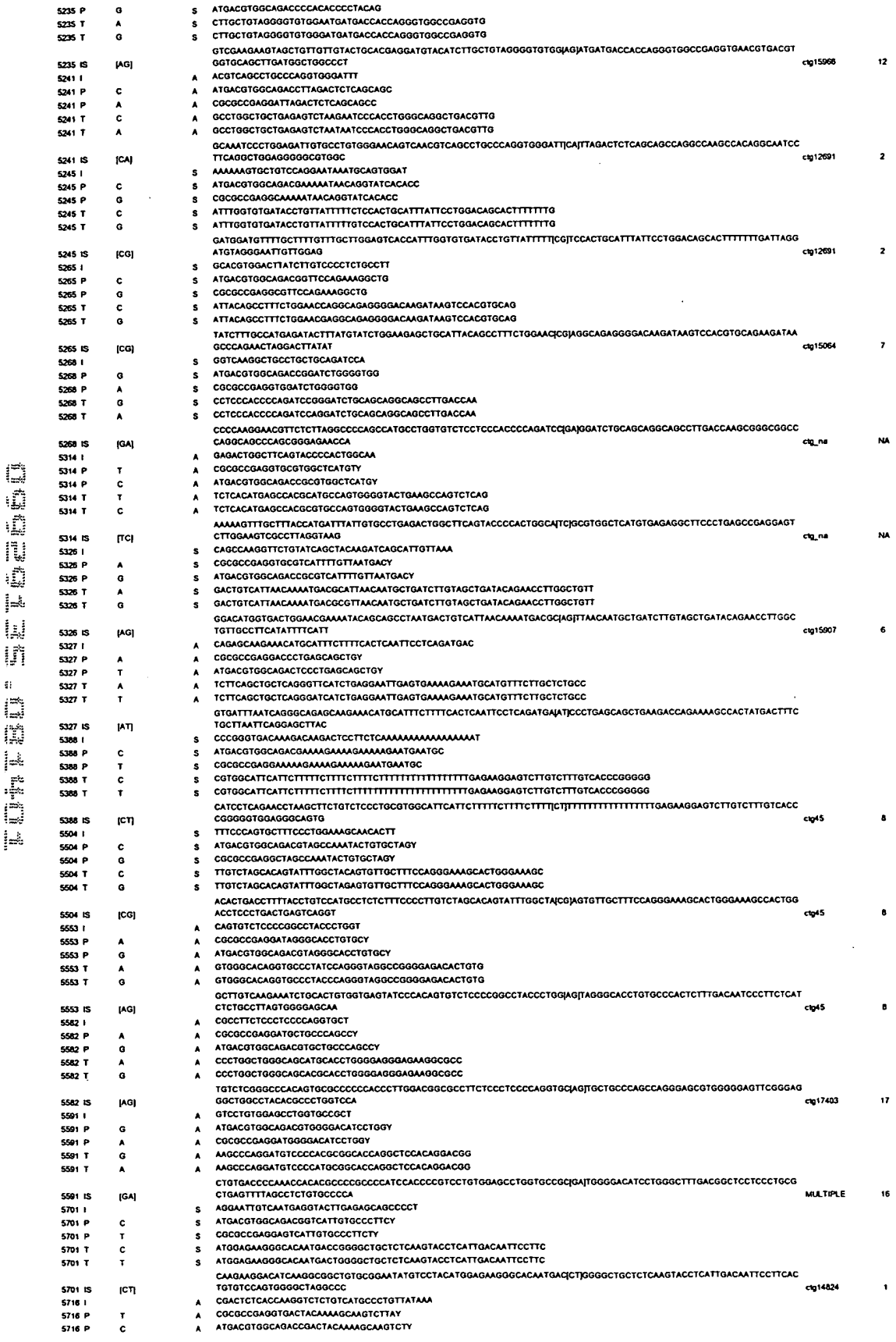

5235 P G S ATGACGTGGCAGACCCCACACCCCTACAG
5235 T A S CTTGCTGTAGGGGTGTGGAATGATGACCACCAGGGTGGCCGAGGTG
5235 T G S CTTGCTGTAGGGGTGTGGGATGATGACCACCAGGGTGGCCGAGGTG
5235 IS [AG] GTCGAAGAAGTAGCTGTTGTTGTACTGCACGAGGATGTACATCTTGCTGTAGGGGTGTGG[AG]ATGATGACCACCAGGGTGGCCGAGGTGAACGTGACGT GGTGCAGCTTGATGGCTGGCCCT ctg15968 12
5241 I A ACGTCAGCCTGCCCAGGTGGGATTT
5241 P C A ATGACGTGGCAGACCTTAGACTCTCAGCAGC
5241 P A A CGCGCCGAGGATTAGACTCTCAGCAGCC
5241 T C A GCCTGGCTGCTGAGAGTCTAAGAATCCCACCTGGGCAGGCTGACGTTG
5241 T A A GCCTGGCTGCTGAGAGTCTAATAATCCCACCTGGGCAGGCTGACGTTG
5241 IS [CA] GCAAATCCCTGGAGATTGTGCCTGTGGGAACAGTCAACGTCAGCCTGCCCAGGTGGGATT[CA]TTAGACTCTCAGCAGCCAGGCCAAGCCACAGGCAATCC TTCAGGCTGGAGGGGGCGTGGC ctg12691 2
5245 I S AAAAAAGTGCTGTCCAGGAATAAATGCAGTGGAT
5245 P C S ATGACGTGGCAGACGAAAAATAACAGGTATCACACC
5245 P G S CGCGCCGAGGCAAAAATAACAGGTATCACACC
5245 T C S ATTTGGTGTGATACCTGTTATTTTTCTCCACTGCATTTATTCCTGGACAGCACTTTTTTTG
5245 T G S ATTTGGTGTGATACCTGTTATTTTTGTCCACTGCATTTATTCCTGGACAGCACTTTTTTTG
5245 IS [CG] GATGGATGTTTTGCTTTTGTTTGCTTGGAGTCACCATTTGGTGTGATACCTGTTATTTTT[CG]TCCACTGCATTTATTCCTGGACAGCACTTTTTTTGATTAGG ATGTAGGGAATTGTTGGAG ctg12691 2
5265 I S GCACGTGGACTTATCTTGTCCCCTCTGCCTT
5265 P C S ATGACGTGGCAGACGGTTCCAGAAAGGCTG
5265 P G S CGCGCCGAGGCGTTCCAGAAAGGCTG
5265 T C S ATTACAGCCTTTCTGGAACCAGGCAGAGGGGACAAGATAAGTCCACGTGCAG
5265 T G S ATTACAGCCTTTCTGGAACGAGGCAGAGGGGACAAGATAAGTCCACGTGCAG
5265 IS [CG] TATCTTTGCCATGAGATACTTTATGTATCTGGAAGAGCTGCATTACAGCCTTTCTGGAAC[CG]AGGCAGAGGGGACAAGATAAGTCCACGTGCAGAAGATAA GCCCAGAACTAGGACTTATAT ctg15064 7
5268 I S GGTCAAGGCTGCCTGCTGCAGATCCA
5268 P G S ATGACGTGGCAGACCGGATCTGGGGTGG
5268 P A S CGCGCCGAGGTGGATCTGGGGTGG
5268 T G S CCTCCCACCCCAGATCCGGGATCTGCAGCAGGCAGCCTTGACCAA
5268 T A S CCTCCCACCCCAGATCCAGGATCTGCAGCAGGCAGCCTTGACCAA
5268 IS [GA] CCCCAAGGAACGTTCTCTTAGGCCCCAGCCATGCCTGGTGTCTCCTCCCACCCCAGATCC[GA]GGATCTGCAGCAGGCAGCCTTGACCAAGCGGGCGGCC CAGGCAGCCCAGCGGGAGAACCA ctg_na NA
5314 I A GAGACTGGCTTCAGTACCCCACTGGCAA
5314 P T A CGCGCCGAGGTGCGTGGCTCATGTY
5314 P C A ATGACGTGGCAGACCGCGTGGCTCATGY
5314 T T A TCTCACATGAGCCACGCATGCCAGTGGGGTACTGAAGCCAGTCTCAG
5314 T C A TCTCACATGAGCCACGCGTGCCAGTGGGGTACTGAAGCCAGTCTCAG
5314 IS [TC] AAAAAGTTTGCTTTACCATGATTTATTGTGCCTGAGACTGGCTTCAGTACCCCACTGGCA[TC]GCGTGGCTCATGTGAGAGGCTTCCCTGAGCCGAGGAGT CTTGGAAGTCGCCTTAGGTAAG ctg_na NA
5326 I S CAGCCAAGGTTCTGTATCAGCTACAAGATCAGCATTGTTAAA
5326 P A S CGCGCCGAGGTGCGTCATTTTGTTAATGACY
5326 P G S ATGACGTGGCAGACCGCGTCATTTTGTTAATGACY
5326 T A S GACTGTCATTAACAAAATGACGCATTAACAATGCTGATCTTGTAGCTGATACAGAACCTTGGCTGTT
5326 T G S GACTGTCATTAACAAAATGACGCGTTAACAATGCTGATCTTGTAGCTGATACAGAACCTTGGCTGTT
5326 IS [AG] GGACATGGTGACTGGAACGAAAATACAGCAGCCTAATGACTGTCATTAACAAAATGACGC[AG]TTAACAATGCTGATCTTGTAGCTGATACAGAACCTTGGC TGTTGCCTTCATATTTTCATT ctg15907 6
5327 I A CAGAGCAAGAAACATGCATTTCTTTTCACTCAATTCCTCAGATGAC
5327 P A A CGCGCCGAGGACCCTGAGCAGCTGY
5327 P T A ATGACGTGGCAGACTCCCTGAGCAGCTGY
5327 T A A TCTTCAGCTGCTCAGGGTTCATCTGAGGAATTGAGTGAAAAGAAATGCATGTTTCTTGCTCTGCC
5327 T T A TCTTCAGCTGCTCAGGGATCATCTGAGGAATTGAGTGAAAAGAAATGCATGTTTCTTGCTCTGCC
5327 IS [AT] GTGATTTAATCAGGGCAGAGCAAGAAACATGCATTTCTTTTCACTCAATTCCTCAGATGA[AT]CCCTGAGCAGCTGAAGACCAGAAAAGCCACTATGACTTTC TGCTTAATTCAGGAGCTTAC
5388 I S CCCGGGTGACAAAGACAAGACTCCTTCTCAAAAAAAAAAAAAAAAT
5388 P C S ATGACGTGGCAGACGAAAAGAAAAGAAAAAGAATGAATGC
5388 P T S CGCGCCGAGGAAAAAGAAAAGAAAAAGAATGAATGC
5388 T C S CGTGGCATTCATTCTTTTTCTTTTCTTTTCTTTTTTTTTTTTTTTTTTTGAGAAGGAGTCTTGTCTTTGTCACCCGGGGG
5388 T T S CGTGGCATTCATTCTTTTTCTTTTCTTTTTTTTTTTTTTTTTTTTTTTTGAGAAGGAGTCTTGTCTTTGTCACCCGGGGG
5388 IS [CT] CATCCTCAGAACCTAAGCTTCTGTCTCCCTGCGTGGCATTCATTCTTTTTCTTTTCTTTT[CT]TTTTTTTTTTTTTTTTTTTGAGAAGGAGTCTTGTCTTTGTCACC CGGGGGTGGAGGGCAGTG ctg45 8
5504 I S TTTCCCAGTGCTTTCCCTGGAAAGCAACACTT
5504 P C S ATGACGTGGCAGACGTAGCCAAATACTGTGCTAGY
5504 P G S CGCGCCGAGGCTAGCCAAATACTGTGCTAGY
5504 T C S TTGTCTAGCACAGTATTTGGCTACAGTGTTGCTTTCCAGGGAAAGCACTGGGAAAGC
5504 T G S TTGTCTAGCACAGTATTTGGCTAGAGTGTTGCTTTCCAGGGAAAGCACTGGGAAAGC
5504 IS [CG] ACACTGACCTTTTACCTGTCCATGCCTCTCTTTCCCCTTGTCTAGCACAGTATTTGGCTA[CG]AGTGTTGCTTTCCAGGGAAAGCACTGGGAAAGCCACTGG ACCTCCCTGACTGAGTCAGGT ctg45 8
5553 I A CAGTGTCTCCCCGGCCTACCCTGGT
5553 P A A CGCGCCGAGGATAGGGCACCTGTGCY
5553 P G A ATGACGTGGCAGACGTAGGGCACCTGTGCY
5553 T A A GTGGGCACAGGTGCCCTATCCAGGGTAGGCCGGGGAGACACTGTG
5553 T G A GTGGGCACAGGTGCCCTACCCAGGGTAGGCCGGGGAGACACTGTG
5553 IS [AG] GCTTGTCAAGAAATCTGCACTGTGGTGAAGTATCCCACAGTGTCTCCCCGGCCTACCCTGG[AG]TAGGGCACCTGTGCCCACTCTTTGACAATCCCTTCTCAT CTCTGCCTTAGTGGGGAGCAA ctg45 8
5582 I A CGCCTTCTCCCTCCCCAGGTGCT
5582 P A A CGCGCCGAGGATGCTGCCCAGCCY
5582 P G A ATGACGTGGCAGACGTGCTGCCCAGCCY
5582 T A A CCCTGGCTGGGCAGCATGCACCTGGGGAGGGAGAAGGCGCC
5582 T G A CCCTGGCTGGGCAGCACGCACCTGGGGAGGGAGAAGGCGCC
5582 IS [AG] TGTCTCGGGCCCACAGTGCGCCCCCCACCCTTGGACGGCGCCTTCTCCCTCCCCAGGTGC[AG]TGCTGCCCAGCCAGGGAGCGTGGGGGAGTTCGGGAG GGCTGGCCTACACGCCCTGGTCCA ctg17403 17
5591 I A GTCCTGTGGAGCCTGGTGCCGCT
5591 P G A ATGACGTGGCAGACGTGGGGACATCCTGGY
5591 P A A CGCGCCGAGGATGGGGACATCCTGGY
5591 T G A AAGCCCAGGATGTCCCCACGCGGCACCAGGCTCCACAGGACGG
5591 T A A AAGCCCAGGATGTCCCCATGCGGCACCAGGCTCCACAGGACGG
5591 IS [GA] CTGTGACCCCAAACCACACGCCCCGCCCCATCCACCCCGTCCTGTGGAGCCTGGTGCCGC[GA]TGGGGACATCCTGGGCTTTGACGGCTCCTCCCTGCG CTGAGTTTTAGCCTCTGTGCCCCA MULTIPLE 16
5701 I S AGGAATTGTCAATGAGGTACTTGAGAGCAGCCCCT
5701 P C S ATGACGTGGCAGACGGTCATTGTGCCCTTCY
5701 P T S CGCGCCGAGGAGTCATTGTGCCCTTCTY
5701 T C S ATGGAGAAGGGCACAATGACCGGGGCTGCTCTCAAGTACCTCATTGACAATTCCTTC
5701 T T S ATGGAGAAGGGCACAATGACTGGGGCTGCTCTCAAGTACCTCATTGACAATTCCTTC
5701 IS [CT] CAAGAAGGACATCAAGGCGGCTGTGCGGAATATGTCCTACATGGAGAAGGGCACAATGAC[CT]GGGGCTGCTCTCAAGTACCTCATTGACAATTCCTTCAC TGTGTCCAGTGGGGCTAGGCCC ctg14824 1 MATN1
5716 I A CGACTCTCACCAAGGTCTCTGTCATGCCCTGTTATAAA
5716 P T A CGCGCCGAGGTGACTACAAAAGCAAGTCTTAY
5716 P C A ATGACGTGGCAGACCGACTACAAAAGCAAGTCTY

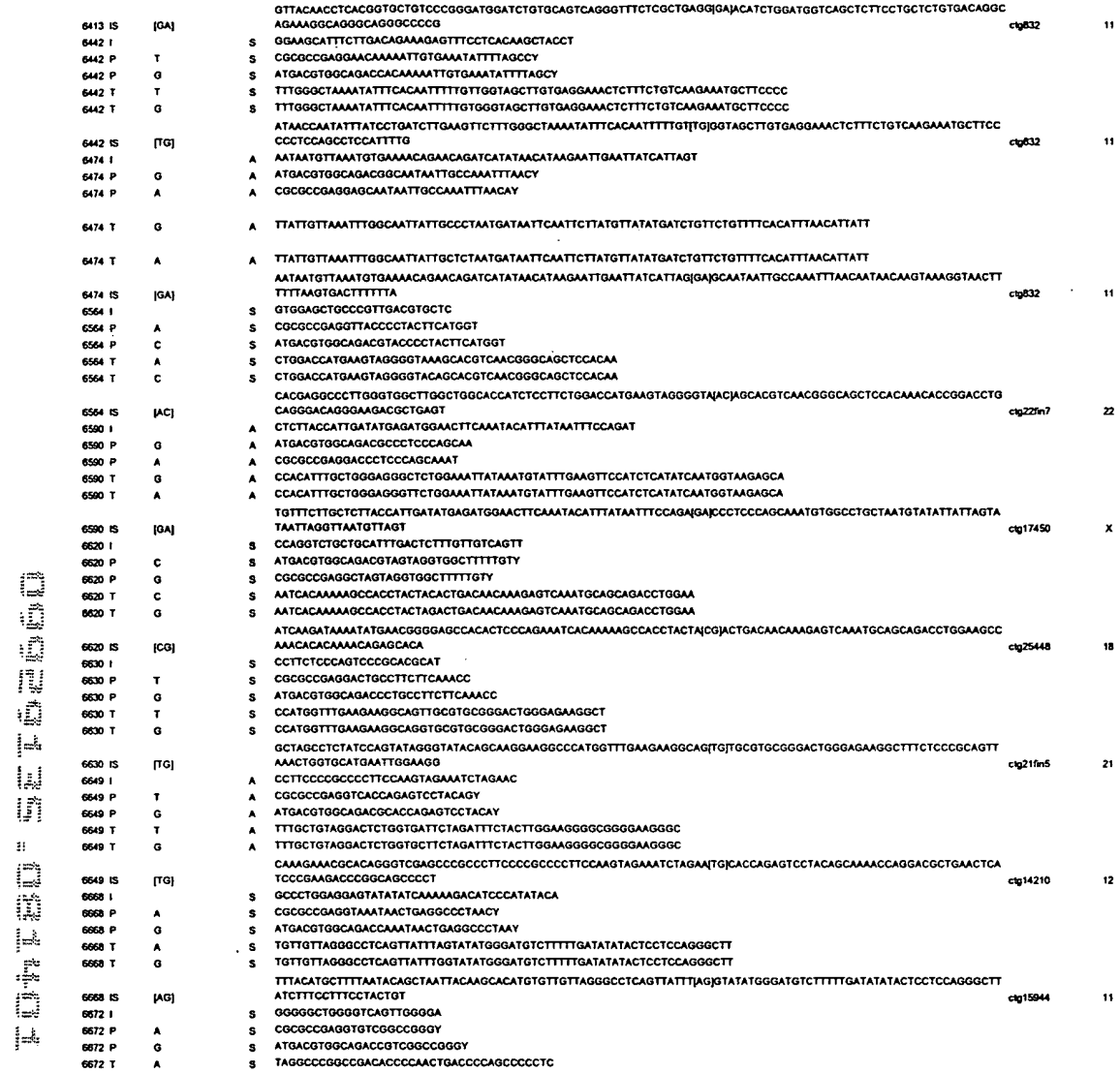
FIGURE 129E

5716 T	T	A	TAGGTAAGACTTGCTTTTGTAGTCATTATAACAGGGCATGACAGAGACCTTGGTGAGAGTCGCC			
5716 T	C	A	TAGGTAAGACTTGCTTTTGTAGTCGTTATAACAGGGCATGACAGAGACCTTGGTGAGAGTCGCC			
5716 IS	[TC]		CACTTGTGATCACTGGCTTCTGGCGACTCTCACCAAGGTCTCTGTCATGCCCTGTTATAA[TC]GACTACAAAAGCAAGTCTTACCTATAGGAAAATAAGAATT ATAACCCTTTTACTGGTCAT	ctg14824	1	
5779 I		A	GGGCCAGCCACCATGGCAGTAGCT			
5779 P	C	A	ATGACGTGGCAGACCTGCCATTGTCAGACTTGY			
5779 P	A	A	CGCGCCGAGGATGCCATTGTCAGACTTGY			
5779 T	C	A	GGAGCAAGTCTGACAATGGCAGGCTACTGCCATGGTGGCTGGCCCTC			
5779 T	A	A	GGAGCAAGTCTGACAATGGCATGCTACTGCCATGGTGGCTGGCCCTC			
5779 IS	[CA]		ACACCCCAAGAAAAAGTACCATCCTTGGGGTTTGAGAGGGCCAGCCACCATGGCAGTAGC[CA]TGCCATTGTCAGACTTGCTCCTTGCACTCCAATAAGTTA GCCACATTCAGCATGCCCAGG	ctg5305	11	
5808 I		A	GTCAACCAACTTCTCTAGGATAAGGTTTCAGGTCAGCCA			
5808 P	C	A	ATGACGTGGCAGACCGTGTGTATAAGACCAGTG			
5808 P	T	A	CGCGCCGAGGTGTGTGTATAAGACCAGTG			
5808 T	C	A	TTGGCACTGGTCTTATACACACGGGCTGACCTGAAACCTTATCCTAGAGAAGTTGGTTGACAG			
5808 T	T	A	TTGGCACTGGTCTTATACACACAGGCTGACCTGAAACCTTATCCTAGAGAAGTTGGTTGACAG			
5808 IS	[CT]		CCTCTTGTCAAGTGATCAGGCTGTCAACCAACTTCTCTAGGATAAGGTTTCAGGTCAGCC[CT]GTGTGTATAAGACCAGTGCCAAGCCAGAAGCAGCAGAGA CAACAGTGAATGACAAGGAGG	ctg5305	11	
5825 I		A	TCCTCTTTACCTTAAGCAGTTGCCTATCTTCTGGTCTGTGT			
5825 P	G	A	ATGACGTGGCAGACGGTCTGACTTGCCTG			
5825 P	A	A	CGCGCCGAGGAGTCTGACTTGCCTGC			
5825 T	G	A	AGAGGCAGGCAAGTCAGACCCACAGACCAGAAGATAGGCAACTGCTTAAGGTAAAGAGGAAT			
5825 T	A	A	AGAGGCAGGCAAGTCAGACTCACAGACCAGAAGATAGGCAACTGCTTAAGGTAAAGAGGAAT			
5825 IS	[GA]		TGGCTCCGCTGGCTATGAATTCCTCTTTACCTTAAGCAGTTGCCTATCTTCTGGTCTGTG[GA]GTCTGACTTGCCTGCCTCTAAGCAAGGCTCCTTTGCAAA TAAATCCACGCTTCCATTGTC			
5829 I		A	GCAGGCTTGGCCCTTGACCTCATAGAACTTAA			
5829 P	T	A	CGCGCCGAGGTCCTAGCCCCCTAAAG			
5829 P	C	A	ATGACGTGGCAGACCCCTAGCCCCCTAAAG			
5829 T	T	A	ATTCCTTTAGGGGGCTAGGATAAGTTCTATGAGGTCAAGGGCCAAGCCTGCCC			
5829 T	C	A	ATTCCTTTAGGGGGCTAGGGTAAGTTCTATGAGGTCAAGGGCCAAGCCTGCCC			
5829 IS	[TC]		CTAGGTCCCCGGCTGTCCACTGGGACAGGGCAGGCTTGGCCCTTGACCTCATAGAACTTA[TC]CCTAGCCCCCTAAAGGAATAGCACATGCCTATCCTTTC CCCTCCAGGTTTAAAGTCTTCG			
5839 I		A	TGACTTCTTTGATCATAGAGCCCCACCCATCCACA			
5839 P	C	A	ATGACGTGGCAGACCCCCACTTTTTTTAAGCC			
5839 P	T	A	CGCGCCGAGGTCCCACTTTTTTTAAGCCA			
5839 T	C	A	TTTTTGGCTTAAAAAAAGTGGGGGTGGATGGGTGGGGCTCTATGATCAAAGAAGTCACA			
5839 T	T	A	TTTTTGGCTTAAAAAAAGTGGGAGTGGATGGGTGGGGCTCTATGATCAAAGAAGTCACA			
5839 IS	[CT]		TGAGGAGAATATTTCCACGTAACATGTGACTTCTTTGATCATAGAGCCCCACCCATCCAC[CT]CCCACTTTTTTTAAGCCAAAAAAGAAGGACCCATGATTTG ACAAGCATTGGCATAATAAG	ctg15665	20	
5941 I		S	CCTGTAATCCCAACACTTTGGCAGACCAAGGTGT			
5941 P	G	S	CGCGCCGAGGCGAGGACAGCTTAAGC			
5941 P	C	S	ATGACGTGGCAGACGGAGGACAGCTTAAGC			
5941 T	G	S	CTGGGCTTAAGCTGTCCTCGCACCTTGGTCTGCCAAAGTGTTGGGATTACAGGTG			
5941 T	C	S	CTGGGCTTAAGCTGTCCTCCCACCTTGGTCTGCCAAAGTGTTGGGATTACAGGTG			
5941 IS	[GC]		GAGAGGAGGTCTCACTACGTACCCAGGCTGGTCTTGAACTCCTGGGCTTAAGCTGTCCTC[GC]CACCTTGGTCTGCCAAAGTGTTGGGATTACAGGTGGCA GCCAACCACGCCTGGAAGTCTT	ctg15285	12	
5989 I		A	CCCAGGAGGGCCCATCTGACCATACCTAA			
5989 P	T	A	CGCGCCGAGGTCTGCCTCTCCTTGC			
5989 P	C	A	ATGACGTGGCAGACCCTGCCTCTCCTTGC			
5989 T	T	A	ATAGGCAAGGAGAGGCAGATAGGTATGGTCAGATGGGCCCTCCTGGGGA			
5989 T	C	A	ATAGGCAAGGAGAGGCAGGTAGGTATGGTCAGATGGGCCCTCCTGGGGA			
5989 IS	[TC]		GTGTGGCTCCTTCAGGCCCACCCAGCTTCTTCCCCAGGAGGGCCCATCTGACCATACCTA[TC]CTGCCTCTCCTTGCCTATCCAGGTACCTGACCGGGGAC CAGTTCTCCAGTGAGTCCTCCT	ctg12387	2	
6065 I		S	GCTGAAATCCAGGACACAGAGTCTACCACCTCCA			
6065 P	A	S	CGCGCCGAGGTGCAGTAGCCTTCCAG			
6065 P	G	S	ATGACGTGGCAGACCGCAGTAGCCTTCCA			
6065 T	A	S	GTTGCTGGAAGGCTACTGCAGGAGGTGGTAGACTCTGTGTCCTGGATTTCAGCAG			
6065 T	G	S	GTTGCTGGAAGGCTACTGCGGGAGGTGGTAGACTCTGTGTCCTGGATTTCAGCAG			
6065 IS	[AG]		CTTTTCAGAGTGGGTGGGGAAGAACCGGGATTCCCATTTTAGTTGCTGGAAGGCTACTGC[AG]GGAGGTGGTAGACTCTGTGTCCTGGATTTCAGCAGGCT TCTCCCTTGACAGATCCCCCAC	MULTIPLE	MULTIPLE	
6113 I		S	GGGTAGCCATGCTTTGGCAGGACTTTTCTTCTT			
6113 P	T	S	CGCGCCGAGGATGGTATTGTTGCCAGC			
6113 P	C	S	ATGACGTGGCAGACGTGGTATTGTTGCCAGC			
6113 T	T	S	TGTTGCTGGCAACAATACCATAGAAGAAAAGTCCTGCCAAAGCATGGCTACCCTA			
6113 T	C	S	TGTTGCTGGCAACAATACCACAGAAGAAAAGTCCTGCCAAAGCATGGCTACCCTA			
6113 IS	[TC]		GGAAAGAGGAGAAGCCTCTTACCAGTTCAGGAACCTGTTGTTGCTGGCAACAATACCA[TC]AGAAGAAAAGTCCTGCCAAAGCATGGCTACCCTAGTCCT CTTAATTCTATTGCTTAGAGG	ctg21fin2	21	
6117 I		S	GCCAAGGGGCCTCCCCTCTCGAA			
6117 P	G	S	ATGACGTGGCAGACCGGTGGGCGCC			
6117 P	A	S	CGCGCCGAGGTGGTGGGCGCC			
6117 T	G	S	TGGTGGCGCCCACCGTCGAGAGGGGAGGCCCCTTGGCAC			
6117 T	A	S	TGGTGGCGCCCACCATCGAGAGGGGAGGCCCCTTGGCAC			
6117 IS	[GA]		TGGCCGAACCTACCTTGTAAAGTGGGGCTGCACAGAGGTCAGCACATGGTGGCGCCCACC[GA]TCGAGAGGGGAGGCCCCTTGGCACTGGAGGCAGGGC CTCACCAGGCAGACGTGCCAGGAC	ctg17224	X	
6118 I		S	CCTTGTCACAGTCTGCAGTCCTTCCTGGGT			
6118 P	T	S	CGCGCCGAGGATCCTGGCACCCTG			
6118 P	C	S	ATGACGTGGCAGACGTCCTGGCACCCTG			
6118 T	T	S	CTCCCAGGGTGCCAGGATCCCAGGAAGGACTGCAGACTGTGACAAGGGG			
6118 T	C	S	CTCCCAGGGTGCCAGGACCCCAGGAAGGACTGCAGACTGTGACAAGGGG			
6118 IS	[TC]		CACAGAGAGCAAACTTCACTGTGTGCACCCTAAAACCAGCAAACTCCCAGGGTGCCAGGA[TC]CCCAGGAAGGACTGCAGACTGTGACAAGGGGGAGAAC AGAGGGGAGCCAACCTGAGGCAT	ctg25301	15	
6122 I		S	GGTGTGCAGGTCCAGCCCCTTGTCT			
6122 P	C	S	ATGACGTGGCAGACGCAGGGAGGCAGG			
6122 P	T	S	CGCGCCGAGGACAGGGAGGCAGG			
6122 T	C	S	CCTGCCTGCCTCCCTGCGACAAGGGGCTGGACCTGCACACCCT			
6122 T	T	S	CCTGCCTGCCTCCCTGTGACAAGGGGCTGGACCTGCACACCCT			
6122 IS	[CT]		GAGCATGAAGGGTCCAGTGGAGATGGTGGAGATGCAGAGGCAGACCTGCCTGCCTCCCTG[CT]GACAAGGGGCTGGACCTGCACACCCTGCCCTTGCTG CGGACCCTTTGCTGGCCCCTTCTG	ctg15343	2	
6125 I		A	GAAATGACCCATGGGGCCAGGGTAGACTTT			
6125 P	G	A	ATGACGTGGCAGACGTATAGCATATAGCACCCTG			
6125 P	A	A	CGCGCCGAGGATATAGCATATAGCACCCTGA			
6125 T	G	A	GCTCTCAGGGTGCTATATGCTATACAAGTCTACCCTGGCCCCATGGGTCATTTCTT			
6125 T	A	A	GCTCTCAGGGTGCTATATGCTATATAAGTCTACCCTGGCCCCATGGGTCATTTCTT			
6125 IS	[GA]		ACACAGCAGGAGGACCCGTTGTTCTCACCAAGAAATGACCCATGGGGCCAGGGTAGACTT[GA]TATAGCATATAGCACCCTGAGAGCAGAGGGGCACACTT AAAGTCCCCATCTCCTGCCACC	ctg14621	2	
6147 I		S	AGTTCATCAACACTGTTTCCAGGTTTGGCCGTGT			
6147 P	T	S	CGCGCCGAGGACCACTTCCAGACCAT			
6147 P	C	S	ATGACGTGGCAGACGCCACTTCCAGACCA			
6147 T	T	S	CTCCATGGTCTGGAAGTGGTCACGGCCAAACCTGGAAACAGTGTTGATGAACTTA			

FIGURE 129E

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6147 T    C          S  CTCCATGGTCTGGAAGTGGCCACGGCCAAACCTGGAAACAGTGTTGATGAACTTA
                        CTTCTTGCTTTGCAATCTGGTCTTTTTTAGTGGTTCTTCTCCTCCATGGTCTGGAAGTGG[TC]CACGGCCAAACCTGGAAACAGTGTTGATGAACTTAAGGTC
6147 IS   [TC]           AGTCTTCTCCAGAGCAGGAC                                                                    ctg21fin2   21
6155 I                 A  CAGGTCCTTTTTGATGTCTGCATTAGTTTCCTAGTACTGCTCTT
6155 P    A          A  CGCGCCGAGGAATGAAGCACCGCAAA
6155 P    C          A  ATGACGTGGCAGACCATGAAGCACCGCAA
6155 T    A          A  CTACTTTGCGGTGCTTCATTAGAGCAGTACTAGGAAACTAATGCAGACATCAAAAAGGACCTGAT
6155 T    C          A  CTACTTTGCGGTGCTTCATGAGAGCAGTACTAGGAAACTAATGCAGACATCAAAAAGGACCTGAT
                        TAGCCCTAAAAAGTGATCAGGTCCTTTTTGATGTCTGCATTAGTTTCCTAGTACTGCTCT[AC]ATGAAGCACCGCAAAGTAGGTGGCTGAAACAACAGACATT
6155 IS   [AC]           TATCTCAAAGTTCAGGAGGT                                                                    ctg17326    12
6159 I                 S  CCGCATCTCGGCGTCTGGGGAGAATCA
6159 P    A          S  CGCGCCGAGGTGAGTCCGGGTGGY
6159 P    G          S  ATGACGTGGCAGACCGAGTCCGGGTGGY
6159 T    A          S  TCACCCACCCGGACTCAGATTCTCCCCAGACGCCGAGATGCGGGT
6159 T    G          S  TCACCCACCCGGACTCGGATTCTCCCCAGACGCCGAGATGCGGGT
                        GAAGCCAATCAGCGTCTCCGCAGTCCCGGTTCTAAAGTCCCCAGTCACCCACCCGGACTC[AG]GATTCTCCCCAGACGCCGAGATGCGGGTCATGGCGCC
6159 IS   [AG]           CCGAACCCTCATCCTGCTGCTCT                                                                 ctg17326    12
6189 I                 A  CTGAGGCTGACTCTACAGGAGAAAGAAGTAGTGAGGAA
6189 P    T          A  CGCGCCGAGGTTGAAAAAAGCCTATTGACAATT
6189 P    C          A  ATGACGTGGCAGACCTGAAAAAAGCCTATTGACAAT
6189 T    T          A  TCTAAATTGTCAATAGGCTTTTTTCAATCCTCACTACTTCTTTCTCCTGTAGAGTCAGCCTCAGGA
6189 T    C          A  TCTAAATTGTCAATAGGCTTTTTTCAGTCCTCACTACTTCTTTCTCCTGTAGAGTCAGCCTCAGGA
                        TGAAAATTATGCCCAGGATGATCCTGAGGCTGACTCTACAGGAGAAAGAAGTAGTGAGGA[TC]TGAAAAAAGCCTATTGACAATTTAGAAAAAAAAAAGAATT
6189 IS   [TC]           ATATCTAGAAATACAGGGTA                                                                    ctg17326    12
6244 I                 A  CGGCCTCAGTCCTGACTCTTCATTTACCCCTC
6244 P    T          A  CGCGCCGAGGTCCATCCAATAAGCCAC
6244 P    A          A  ATGACGTGGCAGACACCATCCAATAAGCCAC
6244 T    T          A  CCTGGTGGCTTATTGGATGGAAGGGGTAAATGAAGAGTCAGGACTGAGGCCGGG
6244 T    A          A  CCTGGTGGCTTATTGGATGGTAGGGGTAAATGAAGAGTCAGGACTGAGGCCGGG
                        CATCCACCCAGCTGTCCAAGCCCAACCCCCCGGCCTCAGTCCTGACTCTTCATTTACCCCT[TA]CCATCCAATAAGCCACCAGGTGCTAGGAATCAGTGACCT
6244 IS   [TA]           CATGGACCACCCTCACCCTCG                                                                   ctg17326    12
6246 I                 S  CCTTTCCTCAAACAGAAGACCCCCTGTAGGTGACT
6246 P    G          S  CGCGCCGAGGCAGGAGAATGCTCAGTTC
6246 P    C          S  ATGACGTGGCAGACGAGGAGAATGCTCAGTTC
6246 T    G          S  GGGTGAACTGAGCATTCTCCTGGTCACCTACAGGGGGTCTTCTGTTTGAGGAAAGGTA
6246 T    C          S  GGGTGAACTGAGCATTCTCCTCGTCACCTACAGGGGGTCTTCTGTTTGAGGAAAGGTA
                        CCCTGCCTGGCACAGAGAAGGGCTTAGTGAGGTTTGTGGGGGTGAACTGAGCATTCTCCT[GC]GTCACCTACAGGGGGTCTTCTGTTTGAGGAAAGGTAG
6246 IS   [GC]           CCACCATTTCTAGGTTTGATACA                                                                 ctg17326    12
6259 I                 S  TCATTGGAAACAGCCATCTGTCCCTTGTGCAACT
6259 P    C          S  ATGACGTGGCAGACGTCACCCTCTGGAGGY
6259 P    T          S  CGCGCCGAGGATCACCCTCTGGAGGY
6259 T    C          S  CTGGCCTCCAGAGGGTGACGTTGCACAAGGGACAGATGGCTGTTTCCAATGATG
6259 T    T          S  CTGGCCTCCAGAGGGTGATGTTGCACAAGGGACAGATGGCTGTTTCCAATGATG
                        AGGTTCACTTCTTGTGGGGAGTCTGTATCCTCAGTCCTGAATCTGGCCTCCAGAGGGTGA[CT]GTTGCACAAGGGACAGATGGCTGTTTCCAATGATGATC
6259 IS   [CT]           AACAAACACTTTCTGCTCAGCC                                                                  ctg17748    14
6285 I                 S  ACAAGGAAAACCCAGCTCAGCCCAAACTCCT
6285 P    C          S  ATGACGTGGCAGACGTCATGACTCTTCTGTGTTC
6285 P    T          S  CGCGCCGAGGATCATGACTCTTCTGTGTTC
6285 T    C          S  CACTGAACACAGAAGAGTCATGACGGAGTTTGGGCTGAGCTGGGTTTTCCTTGTTG
6285 T    T          S  CACTGAACACAGAAGAGTCATGATGGAGTTTGGGCTGAGCTGGGTTTTCCTTGTTG
                        GCCCTGGGATTCCCAGGTGTTTTCATTTGGTGATCAGCACTGAACACAGAAGAGTCATGA[CT]GGAGTTTGGGCTGAGCTGGGTTTTCCTTGTTGCTATTTT
6285 IS   [CT]           TAAAGGTGATTCATGAGGAAA                                                                   ctg14508    3
6287 I                 S  CACAGTGAGCCCTGGGATCAGAGGCACT
6287 P    G          S  CGCGCCGAGGCTCCCATACCCCCATGY
6287 P    C          S  ATGACGTGGCAGACGTCCCATACCCCCATY
6287 T    G          S  CAGACATGGGGGTATGGGAGGTGCCTCTGATCCCAGGGCTCACTGTGGG
6287 T    C          S  CAGACATGGGGGTATGGGACGTGCCTCTGATCCCAGGGCTCACTGTGGG
                        CCTCCTGGTGGCAGCTCCCAGATGTGAGTGTCTCAGGGATCCAGACATGGGGGTATGGGA[GC]GTGCCTCTGATCCCAGGGCTCACTGTGGGTCTCTCTG
6287 IS   [GC]           TTCACAGGGGTCCTGTCCCAGGT                                                                 ctg14508    3
6289 I                 S  TGTGAACAGAGAGACCCACAGTGAGCCCTT
6289 P    C          S  ATGACGTGGCAGACGGGATCAGAGGCACC
6289 P    T          S  CGCGCCGAGGAGGATCAGAGGCACC
6289 T    C          S  GGGAGGTGCCTCTGATCCCAGGGCTCACTGTGGGTCTCTCTGTTCACAGG
6289 T    T          S  GGGAGGTGCCTCTGATCCTAGGGCTCACTGTGGGTCTCTCTGTTCACAGG
                        CTCCCAGATGTGAGTGTCTCAGGGATCCAGACATGGGGGTATGGGAGGTGCCTCTGATCC[CT]AGGGCTCACTGTGGGTCTCTCTGTTCACAGGGGTCCT
6289 IS   [CT]           GTCCCAGGTGCAGCTGCAGGAGT                                                                 ctg632      11
6348 I                 A  TGGCAACACAGCTCATTCAAAAATAAATAATCATTTACTGATGATGT
6348 P    G          A  ATGACGTGGCAGACGGCTTTGTAGATTCCCATCY
6348 P    A          A  CGCGCCGAGGAGCTTTGTAGATTCCCATCY
6348 T    G          A  AGATGATGGGAATCTACAAAGCCCATCATCAGTAAATGATTATTTATTTTTGAATGAGCTGTGTTGCCAGA
6348 T    A          A  AGATGATGGGAATCTACAAAGCTCATCATCAGTAAATGATTATTTATTTTTGAATGAGCTGTGTTGCCAGA
                        AAAAATGTTATGTCTGGCAACACAGCTCATTCAAAAATAAATAATCATTTACTGATGATG[GA]GCTTTGTAGATTCCCATCATCTACAGATTAGAACATATAAG
6348 IS   [GA]           GACAAATTCTGAAGAGCTA                                                                     ctg632      11
6363 I                 A  CCCTACCTCTGCTGAATGCCAAGGCTGCA
6363 P    C          A  ATGACGTGGCAGACCCTTGATCCCCTCCAAY
6363 P    T          A  CGCGCCGAGGTCTTGATCCCCTCCAACY
6363 T    C          A  GGGGGTTGGAGGGGATCAAGGGCAGCCTTGGCATTCAGCAGAGGTAGGGAA
6363 T    T          A  GGGGGTTGGAGGGGATCAAGAGCAGCCTTGGCATTCAGCAGAGGTAGGGAA
                        CCCACACCCTCAGTGCTTGTCCCTGCTCTGTTCCCTACCTCTGCTGAATGCCAAGGCTGC[CT]CTTGATCCCCTCCAACCCCCACAAGACTGAAAGGCATCC
6363 IS   [CT]           TGGCCCCCGGAGGTGTCACCT                                                                   ctg632      11
6381 I                 S  GCTTGGGGCCTGTGAATATGGCAAAAATCT
6381 P    C          S  ATGACGTGGCAGACGTGGTGGTGACATGCY
6381 P    T          S  CGCGCCGAGGATGGTGGTGACATGCAY
6381 T    C          S  TCACTGCATGTCACCACCACGATTTTTGCCATATTCACAGGCCCCAAGCAT
6381 T    T          S  TCACTGCATGTCACCACCATGATTTTTGCCATATTCACAGGCCCCAAGCAT
                        GTTTTTGCCATTGATCTAACCAAAAGTTTCCAAAACTTGAATCACTGCATGTCACCACCA[CT]GATTTTTGCCATATTCACAGGCCCCAAGCATTCTTATTTCT
6381 IS   [CT]           TCCACATGATCTAGTAAAT
6394 I                 S  CATGCAGAGCCTCAAAGCCCCCGGT
6394 P    G          S  ATGACGTGGCAGACCAGATAGGTTAATGAGCCCY
6394 P    T          S  CGCGCCGAGGAAGATAGGTTAATGAGCCCTY
6394 T    G          S  TCAAAGGGCTCATTAACCTATCTGCCGGGGGCTTTGAGGCTCTGCATGTG
6394 T    T          S  TCAAAGGGCTCATTAACCTATCTTCCGGGGGCTTTGAGGCTCTGCATGTG
                        TCCTTCCCAGAGCCAGAGCATCTTGGCAAGGCTCCCTTCAAAGGGCTCATTAACCTATCT[GT]CCGGGGGCTTTGAGGCTCTGCATGTGCAGCATGGAGCA
6394 IS   [GT]           AAGATGTGGGAATTGCTAAGGA                                                                  ctg632      11
6413 I                 S  ACAGAGCAGGAAGAGCTGACCATCCAGATGTA
6413 P    G          S  ATGACGTGGCAGACCCCTCAGCGAGAAACY
6413 P    A          S  CGCGCCGAGGTCCTCAGCGAGAAACCY
6413 T    G          S  TCAGGGTTTCTCGCTGAGGGACATCTGGATGGTCAGCTCTTCCTGCTCTGTGA
6413 T    A          S  TCAGGGTTTCTCGCTGAGGAACATCTGGATGGTCAGCTCTTCCTGCTCTGTGA
```

FIGURE 129E



				GTTACAACCTCACGGTGCTGTCCCGGGATGGATCTGTGCAGTCAGGGTTTCTCGCTGAGG[GA]ACATCTGGATGGTCAGCTCTTCCTGCTCTGTGACAGGC		
6413	IS	[GA]		AGAAAGGCAGGGCAGGGCCCCG	ctg832	11
6442	I		S	GGAAGCATTTCTTGACAGAAAGAGTTTCCTCACAAGCTACCT		
6442	P	T	S	CGCGCCGAGGAACAAAAATTGTGAAATATTTTAGCCY		
6442	P	G	S	ATGACGTGGCAGACCACAAAAATTGTGAAATATTTTAGCY		
6442	T	T	S	TTTGGGCTAAAATATTTCACAATTTTTGTTGGTAGCTTGTGAGGAAACTCTTTCTGTCAAGAAATGCTTCCCC		
6442	T	G	S	TTTGGGCTAAAATATTTCACAATTTTTGTGGGTAGCTTGTGAGGAAACTCTTTCTGTCAAGAAATGCTTCCCC		
				ATAACCAATATTTATCCTGATCTTGAAGTTCTTTGGGCTAAAATATTTCACAATTTTTGT[TG]GGTAGCTTGTGAGGAAACTCTTTCTGTCAAGAAATGCTTCC		
6442	IS	[TG]		CCCTCCAGCCTCCATTTTG	ctg832	11
6474	I		A	AATAATGTTAAATGTGAAAACAGAACAGATCATATAACATAAGAATTGAATTATCATTAGT		
6474	P	G	A	ATGACGTGGCAGACGGCAATAATTGCCAAATTTAACY		
6474	P	A	A	CGCGCCGAGGAGCAATAATTGCCAAATTTAACAY		
6474	T	G	A	TTATTGTTAAATTTGGCAATTATTGCCCTAATGATAATTCAATTCTTATGTTATATGATCTGTTCTGTTTTCACATTTAACATTATT		
6474	T	A	A	TTATTGTTAAATTTGGCAATTATTGCTCTAATGATAATTCAATTCTTATGTTATATGATCTGTTCTGTTTTCACATTTAACATTATT		
				AATAATGTTAAATGTGAAAACAGAACAGATCATATAACATAAGAATTGAATTATCATTAG[GA]GCAATAATTGCCAAATTTAACAATAACAAGTAAAGGTAACTT		
6474	IS	[GA]		TTTTAAGTGACTTTTTTA	ctg832	11
6564	I		S	GTGGAGCTGCCCGTTGACGTGCTC		
6564	P	A	S	CGCGCCGAGGTTACCCCTACTTCATGGT		
6564	P	C	S	ATGACGTGGCAGACGTACCCCTACTTCATGGT		
6564	T	A	S	CTGGACCATGAAGTAGGGGTAAAGCACGTCAACGGGCAGCTCCACAA		
6564	T	C	S	CTGGACCATGAAGTAGGGGTACAGCACGTCAACGGGCAGCTCCACAA		
				CACGAGGCCCTTGGGTGGCTTGGCTGGCACCATCTCCTTCTGGACCATGAAGTAGGGGTA[AC]AGCACGTCAACGGGCAGCTCCACAAACACCGGACCTG		
6564	IS	[AC]		CAGGGACAGGGAAGACGCTGAGT	ctg22fin7	22
6590	I		A	CTCTTACCATTGATATGAGATGGAACTTCAAATACATTTATAATTTCCAGAT		
6590	P	G	A	ATGACGTGGCAGACGCCCTCCCAGCAA		
6590	P	A	A	CGCGCCGAGGACCCTCCCAGCAAAT		
6590	T	G	A	CCACATTTGCTGGGAGGGCTCTGGAAATTATAAATGTATTTGAAGTTCCATCTCATATCAATGGTAAGAGCA		
6590	T	A	A	CCACATTTGCTGGGAGGGTTCTGGAAATTATAAATGTATTTGAAGTTCCATCTCATATCAATGGTAAGAGCA		
				TGTTTCTTGCTCTTACCATTGATATGAGATGGAACTTCAAATACATTTATAATTTCCAGA[GA]CCCTCCCAGCAAATGTGGCCTGCTAATGTATATTATTAGTA		
6590	IS	[GA]		TAATTAGGTTAATGTTAGT	ctg17450	X
6620	I		S	CCAGGTCTGCTGCATTTGACTCTTTGTTGTCAGTT		
6620	P	C	S	ATGACGTGGCAGACGTAGTAGGTGGCTTTTTGTY		
6620	P	G	S	CGCGCCGAGGCTAGTAGGTGGCTTTTTGTY		
6620	T	C	S	AATCACAAAAAGCCACCTACTACACTGACAACAAAGAGTCAAATGCAGCAGACCTGGAA		
6620	T	G	S	AATCACAAAAAGCCACCTACTAGACTGACAACAAAGAGTCAAATGCAGCAGACCTGGAA		
				ATCAAGATAAAATATGAACGGGGAGCCACACTCCCAGAAATCACAAAAAGCCACCTACTA[CG]ACTGACAACAAAGAGTCAAATGCAGCAGACCTGGAAGCC		
6620	IS	[CG]		AAACACACAAAACAGAGCACA	ctg25448	18
6630	I		S	CCTTCTCCCAGTCCCGCACGCAT		
6630	P	T	S	CGCGCCGAGGACTGCCTTCTTCAAACC		
6630	P	G	S	ATGACGTGGCAGACCCTGCCTTCTTCAAACC		
6630	T	T	S	CCATGGTTTGAAGAAGGCAGTTGCGTGCGGGACTGGGAGAAGGCT		
6630	T	G	S	CCATGGTTTGAAGAAGGCAGGTGCGTGCGGGACTGGGAGAAGGCT		
				GCTAGCCTCTATCCAGTATAGGGTATACAGCAAGGAAGGCCCATGGTTTGAAGAAGGCAG[TG]TGCGTGCGGGACTGGGAGAAGGCTTTCTCCCGCAGTT		
6630	IS	[TG]		AAACTGGTGCATGAATTGGAAGG	ctg21fin5	21
6649	I		A	CCTTCCCCGCCCCTTCCAAGTAGAAATCTAGAAC		
6649	P	T	A	CGCGCCGAGGTCACCAGAGTCCTACAGY		
6649	P	G	A	ATGACGTGGCAGACGCACCAGAGTCCTACAY		
6649	T	T	A	TTTGCTGTAGGACTCTGGTGATTCTAGATTTCTACTTGGAAGGGGCGGGGAAGGGC		
6649	T	G	A	TTTGCTGTAGGACTCTGGTGCTTCTAGATTTCTACTTGGAAGGGGCGGGGAAGGGC		
				CAAAGAAACGCACAGGGTCGAGCCCGCCCTTCCCCGCCCCTTCCAAGTAGAAATCTAGAA[TG]CACCAGAGTCCTACAGCAAAACCAGGACGCTGAACTCA		
6649	IS	[TG]		TCCCGAAGACCCGGCAGCCCCT	ctg14210	12
6668	I		S	GCCCTGGAGGAGTATATATCAAAAAGACATCCCATATACA		
6668	P	A	S	CGCGCCGAGGTAAATAACTGAGGCCCTAACY		
6668	P	G	S	ATGACGTGGCAGACCAAATAACTGAGGCCCTAAY		
6668	T	A	S	TGTTGTTAGGGCCTCAGTTATTTAGTATATGGGATGTCTTTTTGATATATACTCCTCCAGGGCTT		
6668	T	G	S	TGTTGTTAGGGCCTCAGTTATTTGGTATATGGGATGTCTTTTTGATATATACTCCTCCAGGGCTT		
				TTTACATGCTTTTAATACAGCTAATTACAAGCACATGTGTTGTTAGGGCCTCAGTTATTT[AG]GTATATGGGATGTCTTTTTGATATATACTCCTCCAGGGCTT		
6668	IS	[AG]		ATCTTTCCTTTCCTACTGT	ctg15944	11
6672	I		S	GGGGGCTGGGGTCAGTTGGGGA		
6672	P	A	S	CGCGCCGAGGTGTCGGCCGGGY		
6672	P	G	S	ATGACGTGGCAGACCGTCGGCCGGGY		
6672	T	A	S	TAGGCCCGGCCGACACCCCAACTGACCCCAGCCCCCTC		
6672	T	G	S	TAGGCCCGGCCGACGCCCCAACTGACCCCAGCCCCCTC		
				GTTCCTCCGTGAACGTGGGCCCCTCGTGGGTGGAGCGTCATCCTGTTAGGCCCGGCCGAC[AG]CCCCAACTGACCCCAGCCCCCTCTGCCCACAGACAC		
6672	IS	[AG]		GGTCCGCTCTTTCCTGAAGCGCAG	ctg2712	15
6676	I		A	GCTTGGCAGCCACGTCTCTGTCTCTGAT		
6676	P	G	A	ATGACGTGGCAGACGGGAGCCCTGGTTCY		
6676	P	A	A	CGCGCCGAGGAGGAGCCCTGGTTCY		
6676	T	G	A	AGCAGAACCAGGGCTCCCTCAGAGACAGAGACGTGGCTGCCAAGCTG		
6676	T	A	A	AGCAGAACCAGGGCTCCTTCAGAGACAGAGACGTGGCTGCCAAGCTG		
				TGCAGGAGGAACCAGAGCCCAGTCGGTGACCCAGCTTGGCAGCCACGTCTCTGTCTCTGA[GA]GGAGCCCTGGTTCTGCTGAGGTGCAACTACTCATCGT		
6676	IS	[GA]		CTGTTCCACCATATCTCTTCTGG	ctg15415	X
6684	I		A	TGCTGCTGAGGTGCAACTACTCATCTTCTTATTCACCT		
6684	P	A	A	CGCGCCGAGGATCTCTCTTCTGGTATGTGCY		
6684	P	G	A	ATGACGTGGCAGACGTCTCTCTTCTGGTATGTGY		
6684	T	A	A	TGTTGCACATACCAGAAGAGAGATGGTGAATAAGAAGATGAGTAGTTGCACCTCAGCAGCACC		
6684	T	G	A	TGTTGCACATACCAGAAGAGAGACGGTGAATAAGAAGATGAGTAGTTGCACCTCAGCAGCACC		
				CTCTGTCTCTGAAGGAACCCCGGTGCTGCTGAGGTGCAACTACTCATCTTCTTATTCACC[AG]TCTCTCTTCTGGTATGTGCAACACCCCAACAAAGGACTC		
6684	IS	[AG]		CAGCTTCTCCTGAAGTACACA	ctg15415	X
6721	I		S	ACCTATGCTATACATTCCACATGATCAAGAAAAATTGTTGGTT		
6721	P	T	S	CGCGCCGAGGACATTAACATTTTATAGGTAAAGTTTATGY		
6721	P	C	S	ATGACGTGGCAGACGCATTAACATTTTATAGGTAAAGTTTATY		
6721	T	T	S	TTCACATAAACTTTACCTATAAAATGTTAATGTACCAACAATTTTTCTTGATCATGTGGAATGTATAGCATAGGTGA		
6721	T	C	S	TTCACATAAACTTTACCTATAAAATGTTAATGCACCAACAATTTTTCTTGATCATGTGGAATGTATAGCATAGGTGA		
				ATAACTAGGACATTGCCATACCATCATTTTCACATAAACTTTACCTATAAAATGTTAATG[TC]ACCAACAATTTTTCTTGATCATGTGGAATGTATAGCATAGGT		
6721	IS	[TC]		GATTAGAAATAAAAATTA	ctg15415	X
6751	I		S	CAGCCTATCAACTTTTATTTATTTAGCTGTTATGTGCATTGCTTAAA		
6751	P	G	S	ATGACGTGGCAGACCTTGGATACTCATCATTTACTTTCY		
6751	P	A	S	CGCGCCGAGGTTTGGATACTCATCATTTACTTTCY		
6751	T	G	S	ATTAGAAAGTAAATGATGAGTATCCAAGTTAAGCAATGCACATAACAGCTAAATAAATAAAAGTTGATAGGCTGAA		
6751	T	A	S	ATTAGAAAGTAAATGATGAGTATCCAAATTAAGCAATGCACATAACAGCTAAATAAATAAAAGTTGATAGGCTGAA		
				ACACACACGAGTAAGACGTGCTTTATTGTACATATTAGAAAGTAAATGATGAGTATCCAA[GA]TTAAGCAATGCACATAACAGCTAAATAAATAAAAGTTGATA		
6751	IS	[GA]		GGCTGAATATTCAATACTG	ctg15944	11
6776	I		A	GGACGGTCAGTTCCCTCGAATCCTTCTGAATATGAAGAAA		
6776	P	C	A	ATGACGTGGCAGACCGCCTCTTGCACCTY		
6776	P	T	A	CGCGCCGAGGTGCCTCTTGCACCTY		
6776	T	C	A	CACCAGGTGCAAGAGGCGTTCTTCATATTCAGAAGGATTCGAGGGAACTGACCGTCCTC		

FIGURE 129E

6776 T	T		A	CACCAGGTGCAAGAGGCATTCTTCATATTCAGAAGGATTCGAGGGAACTGACCGTCCTC
6776 IS	[CT]			CTGGCCAGTGGGGTGGAGGGAGGACGGTCAGTTCCCTCGAATCCTTCTGAATATGAAGAA[CT]GCCTCTTGCACCTGGTGGCCGTGGTAACCATCCTTGT GAGCTCTGCAAACAGCAGGAGGT
6857 I			A	CACGACGCGGATGTTCTTGCCCCCA
6857 P	T		A	CGCGCCGAGGTGACTGCACGCAGTAY
6857 P	C		A	ATGACGTGGCAGACCGACTGCACGCAGY
6857 T	T		A	GCTGTACTGCGTGCAGTCAGGGGGCAAGAACATCCGCGTCGTGGT
6857 T	C		A	GCTGTACTGCGTGCAGTCGGGGGGCAAGAACATCCGCGTCGTGGT
6857 IS	[TC]			CATCTTGACCACGCGGGGCAGGATGTTGTTCATGACCACGACGCGGATGTTCTTGCCCCC[TC]GACTGCACGCAGTACAGCCCATAGAACTTGGGCAGCA GCGTCCGCGGGTTCTGGTTGAGG
6879 I			A	GGTACAAAACAGTATCATTTATGAGGTCAAGGAAGTAAAATCAGAAAA
6879 P	T		A	CGCGCCGAGGTAGTTTGTTCATTCTCCATAGCY
6879 P	C		A	ATGACGTGGCAGACCAGTTTGTTCATTCTCCATAGY
6879 T	T		A	GTGTGCTATGGAGAATGAACAAACTATTTCTGATTTTACTTCCTTGACCTCATAAATGATACTGTTTTGTACCCA
6879 T	C		A	GTGTGCTATGGAGAATGAACAAACTGTTTCTGATTTTACTTCCTTGACCTCATAAATGATACTGTTTTGTACCCA
6879 IS	[TC]			TGGAGAAAGAATGGGTACAAAACAGTATCATTTATGAGGTCAAGGAAGTAAAATCAGAAA[TC]AGTTTGTTCATTCTCCATAGCACACCAAGAATATCTTAATG TTTCTCAGTGTCCTGAGAA
11084 I			S	CCTTAGGGGAGCTTTACTGCCTGGGAACAC
11084 P	A		S	CGCGCCGAGGTGGTGTTAGCCCACTGY
11084 P	T		S	ATGACGTGGCAGACAGGTGTTAGCCCACTGY
11084 T	A		S	CAAACAGTGGGCTAACACCATGTTCCCAGGCAGTAAAGCTCCCCTAAGGCA
11084 T	T		S	CAAACAGTGGGCTAACACCTTGTTCCCAGGCAGTAAAGCTCCCCTAAGGCA
11084 IS	[AT]			CCAACATGTTCTGGCAGCTTCAAGCTTTGGTACCTCGTCTGCAAACAGTGGGCTAACACC[AT]TGTTCCCAGGCAGTAAAGCTCCCCTAAGGCAGTTCCTCA GTCTGTTCGTTCTTATTTACA
11143 I			S	GCTCACACTCACCTCCCCTCATTGTGTCTCTT
11143 P	C		S	ATGACGTGGCAGACGGCACAGTAATACACGGY
11143 P	G		S	CGCGCCGAGGCGCACAGTAATACACGGY
11143 T	C		S	ACGGCCGTGTATTACTGTGCCAGAGACACAATGAGGGGAGGTGAGTGTGAGCCC
11143 T	G		S	ACGGCCGTGTATTACTGTGCGAGAGACACAATGAGGGGAGGTGAGTGTGAGCCC
11143 IS	[CG]			CCAGTTCTCCCTGAAGCTGAGCTCTGTGACTGCCGCGGACACGGCCGTGTATTACTGTGC[CG]AGAGACACAATGAGGGGAGGTGAGTGTGAGCCCAGAC ACAAACCTCCCTGCAGGGAGGCG
11153 I			A	GCCTCCCGCGCGCTCAGCATCA
11153 P	C		A	ATGACGTGGCAGACCCTCCTCCTCCTCCCY
11153 P	T		A	CGCGCCGAGGTCTCCTCCTCCTCCCY
11153 T	C		A	ATGGGGGAGGAGGAGGAGGGATGCTGAGCGCGCGGGAGGCCG
11153 T	T		A	ATGGGGGAGGAGGAGGAGAGATGCTGAGCGCGCGGGAGGCCG
11153 IS	[CT]			CCGCGGTCCAGGCTCCGCCGGTGCCCCTCAAAGCAGTCGGCCTCCCGCGCGCTCAGCATC[CT]CTCCTCCTCCTCCCCCATCTCCTCCCGTCCCTCCTCC GCCCGCGCTGGTGTCACCAACCT
11162 I			A	GGTGAGAAACTGCCCTCCAGATCTGCCTTTT
11162 P	C		A	CGCGCCGAGGCTCATCTAGATCAGAGGTTCY
11162 P	G		A	ATGACGTGGCAGACGTCATCTAGATCAGAGGTTCY
11162 T	C		A	TTTGGAACCTCTGATCTAGATGAGAAAGGCAGATCTGGAGGGCAGTTTCTCACCTC
11162 T	G		A	TTTGGAACCTCTGATCTAGATGACAAAGGCAGATCTGGAGGGCAGTTTCTCACCTC
11162 IS	[CG]			CTCCTGGTCTGTTGCTTTGATCTTTGCAGAGGTGAGAAACTGCCCTCCAGATCTGCCTTT[CG]TCATCTAGATCAGAGGTTCCAAATGTGCATCTGTGACCC TGGGGTACCTGGTGACAGAAT
11183 I			S	TCAAAGCTGCTTCTTTCCCCGAGCCCTT
11183 P	T		S	CGCGCCGAGGATTTTTTGTGAGTTCTGAGGTY
11183 P	C		S	ATGACGTGGCAGACGTTTTTTGTGAGTTCTGAGGY
11183 T	T		S	TCTGACCTCAGAACTCACAAAAAATAGGGCTCGGGGAAAGAAGCAGCTTTGATC
11183 T	C		S	TCTGACCTCAGAACTCACAAAAAACAGGGCTCGGGGAAAGAAGCAGCTTTGATC
11183 IS	[TC]			TCCATCTGTCCAAGAAATCGCTCCTGTAGTTGTGGTTCTGACCTCAGAACTCACAAAAAA[TC]AGGGCTCGGGGAAAGAAGCAGCTTTGATCAGGCATCTCT TACGGGGCTTCCCAACCCGAC
11186 I			S	CGGACCTCCTCCTCCAGCCGCA
11186 P	G		S	ATGACGTGGCAGACCGCAGCTCTTGCAGY
11186 P	A		S	CGCGCCGAGGTGCAGCTCTTGCAGY
11186 T	G		S	GCAGCTGCAAGAGCTGCGGCGGCTGGAGGAGGAGGTCCGGC
11186 T	A		S	GCAGCTGCAAGAGCTGCAGCGGCTGGAGGAGGAGGTCCGGC
11186 IS	[GA]			AGGGGTCACAGGCCCTGAGCCAGCAGGCTGAGGTGATCGTTCGGCAGCTGCAAGAGCTGC[GA]GCGGCTGGAGGAGGAGGTCCGGCTCCTGCGGGAGA CCTCGCTGCAGCAGAAGATGAGGCT
11204 I			A	AGGGGCCTCCAGGAGTGCCCAA
11204 P	T		A	CGCGCCGAGGTGGACTTGGTCGGGY
11204 P	C		A	ATGACGTGGCAGACCGGACTTGGTCGGGY
11204 T	T		A	TCTGCCCGACCAAGTCCATGGGCACTCCTGGAGGCCCCTGG
11204 T	C		A	TCTGCCCGACCAAGTCCGTGGGCACTCCTGGAGGCCCCTGG
11204 IS	[TC]			CACACCTTAGCATGCCAGCTGGCTGGGGTGGGAGAAGCCAGGGGCCTCCAGGAGTGCCCA[TC]GGACTTGGTCGGGCAGAGTTCACCTGAACCTGGCCC TGTGGCCCATTTGCTGTCTCCAGT
11206 I			A	TCCTCACCAGCAACCCATCTTCCCAGCA
11206 P	C		A	ATGACGTGGCAGACCCGCTGGCCCCY
11206 P	T		A	CGCGCCGAGGTCGCTGGCCCCTY
11206 T	C		A	GACAAGGGGCCAGCGGGCTGGGAAGATGGGTTGCTGGTGAGGAAC
11206 T	T		A	GACAAGGGGCCAGCGAGCTGGGAAGATGGGTTGCTGGTGAGGAAC
11206 IS	[CT]			TTGTCCAGTGCATCTCTTCGTGCTCTTCTCTGTTCCTCACCAGCAACCCATCTTCCCAGC[CT]CGCTGGCCCCTTGTCTTGACCTTCTCTGTGGGTGCTCCT TCCATTGGCTGTTAGTCTGCC
11209 I			S	CAGCTCTGCCTGGGGCCTCAGAGAAT
11209 P	T		S	CGCGCCGAGGACCCAATGACCGCTY
11209 P	C		S	ATGACGTGGCAGACGCCCAATGACCGCY
11209 T	T		S	GCCCAGCGGTCATTGGGTTTCTCTGAGGCCCCAGGCAGAGCTGCA
11209 T	C		S	GCCCAGCGGTCATTGGGCTTCTCTGAGGCCCCAGGCAGAGCTGCA
11209 IS	[TC]			CATGGTGGTTCTGCTTAAAGAAGGCCACAGCCAGCTTCCAGCAGCCCAGCGGTCATTGGG[TC]TTCTCTGAGGCCCCAGGCAGAGCTGCACGTGCATCCG CACCAGGGAGCACTGCACAGGGG
11264 I			A	CCTGTAGCCAGGGCATGTGTGGGGACA
11264 P	C		A	ATGACGTGGCAGACCGCTCTGACAACTGTCY
11264 P	T		A	CGCGCCGAGGTGCTCTGACAACTGTCCY
11264 T	C		A	TGGGGGACAGTTGTCAGAGCGGTCCCCACACATGCCCTGGCTACAGGGG
11264 T	T		A	TGGGGGACAGTTGTCAGAGCAGTCCCCACACATGCCCTGGCTACAGGGG
11264 IS	[CT]			CCCAAGTGCCGCCGGAAGCTGACTGCAGCTGCCCCCTGTAGCCAGGGCATGTGTGGGGAC[CT]GCTCTGACAACTGTCCCCCACTCCCGCCGTGCCCAG TGCCCGACACCCTGGGGAGTCACT
11274 I			A	CTCCGAGAAGTTGCCGCGCAAGGTGA
11274 P	C		A	ATGACGTGGCAGACCTGCAGCACGTGAGY
11274 P	T		A	CGCGCCGAGGTTGCAGCACGTGAGTY
11274 T	C		A	GCTCACTCACGTGCTGCAGCACCTTGCGCGGCAACTTCTCGGAGTG
11274 T	T		A	GCTCACTCACGTGCTGCAACACCTTGCGCGGCAACTTCTCGGAGTG
11274 IS	[CT]			CTCATCCTAGACTTAATGAAAGAATGGATCGCCCACTCCGAGAAGTTGCCGCGCAAGGTG[CT]TGCAGCACGTGAGTGAGCCCCAGGCGCACCAGGAGAG CACCAGGGGAGCCGCTCGTCCTG
11301 I			S	CATTGTGGTGTTATATAGAACACTCTCCTGCTACTCTCTGATCTCTTGT
11301 P	C		S	ATGACGTGGCAGACGGTCTGAGGACTCTGGY
11301 P	T		S	CGCGCCGAGGAGTCTGAGGACTCTGGAY
11301 T	C		S	CTTCTCCAGAGTCCTCAGACCCAAGAGATCAGAGAGTAGCAGGAGAGTGTTCTATATAACACCACAATGCT
11301 T	T		S	CTTCTCCAGAGTCCTCAGACTCAAGAGATCAGAGAGTAGCAGGAGAGTGTTCTATATAACACCACAATGCT

HCR

FIGURE 129E

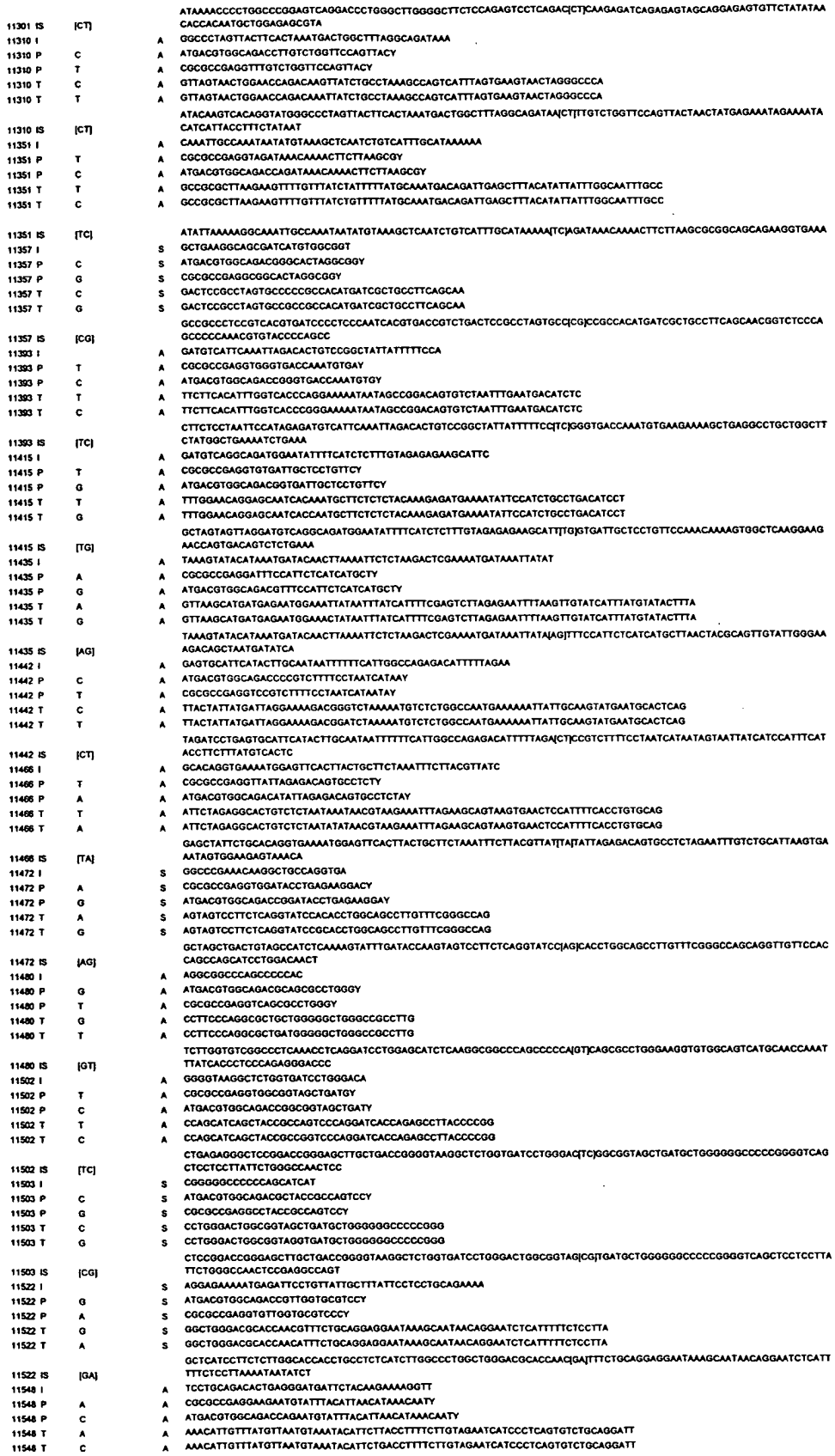
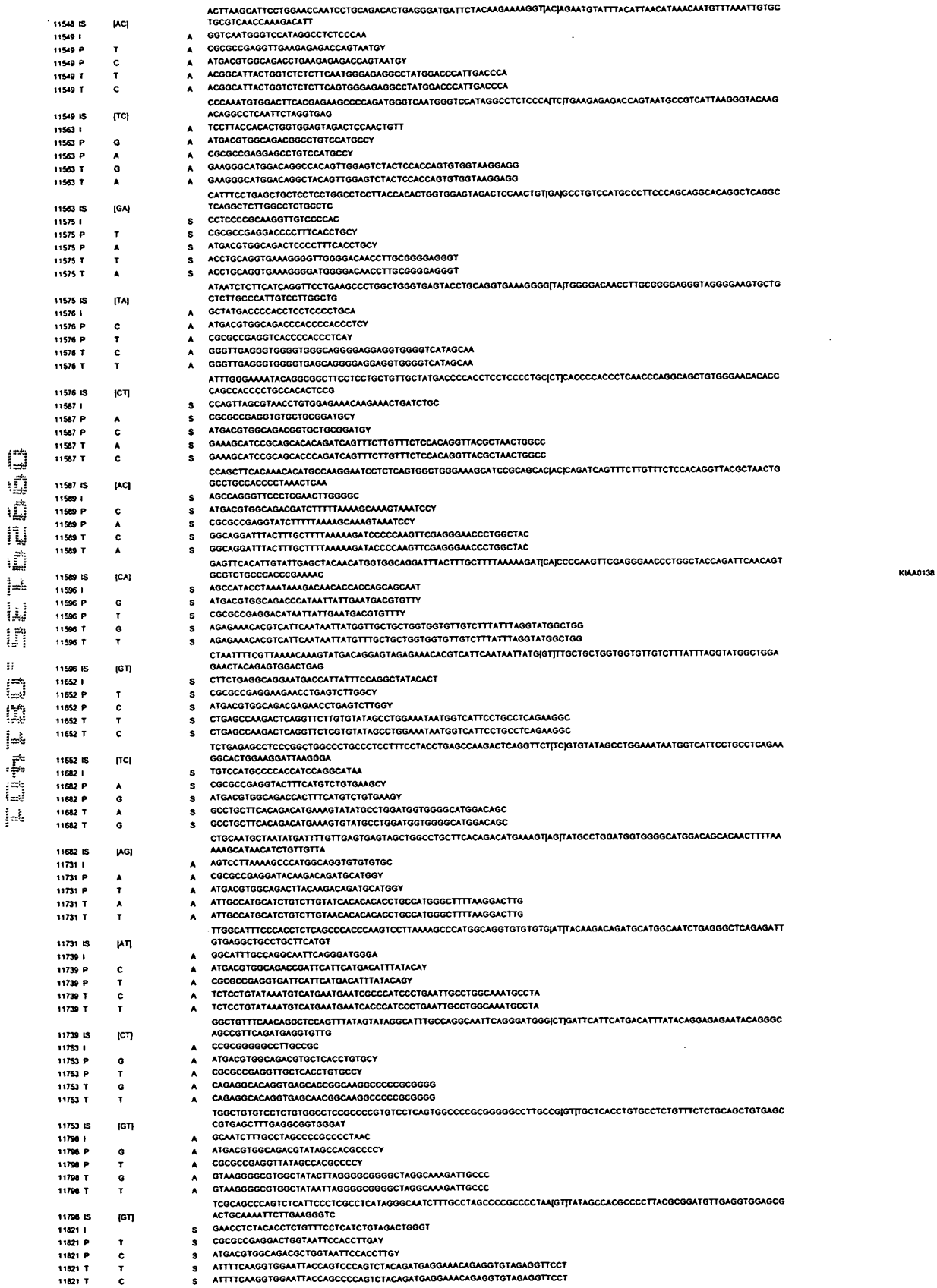
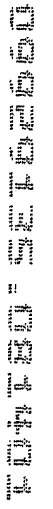

ATAAAACCCCTGGCCCGGAGTCAGGACCCTGGGCTTGGGGCTTCTCCAGAGTCCTCAGAC[CT]CAAGAGATCAGAGAGTAGCAGGAGAGTGTTCTATATAA
11301 IS [CT] CACCACAATGCTGGAGAGCGTA
11310 I A GGCCCTAGTTACTTCACTAAATGACTGGCTTTAGGCAGATAAA
11310 P C A ATGACGTGGCAGACCTTGTCTGGTTCCAGTTACY
11310 P T A CGCGCCGAGGTTTGTCTGGTTCCAGTTACY
11310 T C A GTTAGTAACTGGAACCAGACAAGTTATCTGCCTAAAGCCAGTCATTTAGTGAAGTAACTAGGGCCCA
11310 T T A GTTAGTAACTGGAACCAGACAAATTATCTGCCTAAAGCCAGTCATTTAGTGAAGTAACTAGGGCCCA
ATACAAGTCACAGGTATGGGCCCTAGTTACTTCACTAAATGACTGGCTTTAGGCAGATAA[CT]TTGTCTGGTTCCAGTTACTAACTATGAGAAATAGAAAATA
11310 IS [CT] CATCATTACCTTTCTATAAT
11351 I A CAAATTGCCAAATAATATGTAAAGCTCAATCTGTCATTTGCATAAAAAA
11351 P T A CGCGCCGAGGTAGATAAACAAAACTTCTTAAGCGY
11351 P C A ATGACGTGGCAGACCAGATAAACAAAACTTCTTAAGCGY
11351 T T A GCCGCGCTTAAGAAGTTTTGTTTATCTATTTTTATGCAAATGACAGATTGAGCTTTACATATTATTTGGCAATTTGCC
11351 T C A GCCGCGCTTAAGAAGTTTTGTTTATCTGTTTTTATGCAAATGACAGATTGAGCTTTACATATTATTTGGCAATTTGCC
ATATTAAAAAGGCAAATTGCCAAATAATATGTAAAGCTCAATCTGTCATTTGCATAAAAA[TC]AGATAAACAAAACTTCTTAAGCGCGGCAGCAGAAGGTGAAA
11351 IS [TC] GCTGAAGGCAGCGATCATGTGGCGGT
11357 I S ATGACGTGGCAGACGGGCACTAGGCGGY
11357 P C S CGCGCCGAGGCGGCACTAGGCGGY
11357 P G S GACTCCGCCTAGTGCCCCCGCCACATGATCGCTGCCTTCAGCAA
11357 T C S GACTCCGCCTAGTGCCGCCGCCACATGATCGCTGCCTTCAGCAA
GCCGCCCTCCGTCACGTGATCCCCTCCCAATCACGTGACCGTCTGACTCCGCCTAGTGCC[CG]CCGCCACATGATCGCTGCCTTCAGCAACGGTCTCCCA
11357 IS [CG] GCCCCCAAACGTGTACCCCAGCC
11393 I A GATGTCATTCAAATTAGACACTGTCCGGCTATTATTTTTCCA
11393 P T A CGCGCCGAGGTGGGTGACCAAATGTGAY
11393 P C A ATGACGTGGCAGACCGGGTGACCAAATGTGY
11393 T T A TTCTTCACATTTGGTCACCCAGGAAAAATAATAGCCGGACAGTGTCTAATTTGAATGACATCTC
11393 T C A TTCTTCACATTTGGTCACCCGGGAAAAATAATAGCCGGACAGTGTCTAATTTGAATGACATCTC
CTTCTCCTAATTCCATAGAGATGTCATTCAAATTAGACACTGTCCGGCTATTATTTTTCC[TC]GGGTGACCAAATGTGAAGAAAAGCTGAGGCCTGCTGGCTT
11393 IS [TC] CTATGGCTGAAAATCTGAAA
11415 I A GATGTCAGGCAGATGGAATATTTTCATCTCTTTGTAGAGAGAAGCATTC
11415 P T A CGCGCCGAGGTGTGATTGCTCCTGTTCY
11415 P G A ATGACGTGGCAGACGGTGATTGCTCCTGTTCY
11415 T T A TTTGGAACAGGAGCAATCACAAATGCTTCTCTCTACAAAGAGATGAAAATATTCCATCTGCCTGACATCCT
11415 T G A TTTGGAACAGGAGCAATCACCAATGCTTCTCTCTACAAAGAGATGAAAATATTCCATCTGCCTGACATCCT
GCTAGTAGTTAGGATGTCAGGCAGATGGAATATTTTCATCTCTTTGTAGAGAGAAGCATT[TG]GTGATTGCTCCTGTTCCAAACAAAAGTGGCTCAAGGAAG
11415 IS [TG] AACCAGTGACAGTCTCTGAAA
11435 I A TAAAGTATACATAAATGATACAACTTAAAATTCTCTAAGACTCGAAAATGATAAATTATAT
11435 P A A CGCGCCGAGGATTTCCATTCTCATCATGCTY
11435 P G A ATGACGTGGCAGACGTTTCCATTCTCATCATGCTY
11435 T A A GTTAAGCATGATGAGAATGGAAATTATAATTTATCATTTTCGAGTCTTAGAGAATTTTAAGTTGTATCATTTATGTATACTTTA
11435 T G A GTTAAGCATGATGAGAATGGAAACTATAATTTATCATTTTCGAGTCTTAGAGAATTTTAAGTTGTATCATTTATGTATACTTTA
TAAAGTATACATAAATGATACAACTTAAAATTCTCTAAGACTCGAAAATGATAAATTATA[AG]TTTCCATTCTCATCATGCTTAACTACGCAGTTGTATTGGGAA
11435 IS [AG] AGACAGCTAATGATATCA
11442 I A GAGTGCATTCATACTTGCAATAATTTTTTCATTGGCCAGAGACATTTTTAGAA
11442 P C A ATGACGTGGCAGACCCCGTCTTTTCCTAATCATAAY
11442 P T A CGCGCCGAGGTCCGTCTTTTCCTAATCATAATAY
11442 T C A TTACTATTATGATTAGGAAAAGACGGGTCTAAAAATGTCTCTGGCCAATGAAAAAATTATTGCAAGTATGAATGCACTCAG
11442 T T A TTACTATTATGATTAGGAAAAGACGGATCTAAAAATGTCTCTGGCCAATGAAAAAATTATTGCAAGTATGAATGCACTCAG
TAGATCCTGAGTGCATTCATACTTGCAATAATTTTTTCATTGGCCAGAGACATTTTTAGA[CT]CCGTCTTTTCCTAATCATAATAGTAATTATCATCCATTTCAT
11442 IS [CT] ACCTTCTTTATGTCACTC
11466 I A GCACAGGTGAAAATGGAGTTCACTTACTGCTTCTAAATTTCTTACGTTATC
11466 P T A CGCGCCGAGGTTATTAGAGACAGTGCCTCTY
11466 P A A ATGACGTGGCAGACATATTAGAGACAGTGCCTCTAY
11466 T T A ATTCTAGAGGCACTGTCTCTAATAAATAACGTAAGAAATTTAGAAGCAGTAAGTGAACTCCATTTTCACCTGTGCAG
11466 T A A ATTCTAGAGGCACTGTCTCTAATATATAACGTAAGAAATTTAGAAGCAGTAAGTGAACTCCATTTTCACCTGTGCAG
GAGCTATTCTGCACAGGTGAAAATGGAGTTCACTTACTGCTTCTAAATTTCTTACGTTAT[TA]TATTAGAGACAGTGCCTCTAGAATTTGTCTGCATTAAGTGA
11466 IS [TA] AATAGTGGAAGAGTAAACA
11472 I S GGCCCGAAACAAGGCTGCCAGGTGA
11472 P A S CGCGCCGAGGTGGATACCTGAGAAGGACY
11472 P G S ATGACGTGGCAGACCGGATACCTGAGAAGGAY
11472 T A S AGTAGTCCTTCTCAGGTATCCACACCTGGCAGCCTTGTTTCGGGCCAG
11472 T G S AGTAGTCCTTCTCAGGTATCCGCACCTGGCAGCCTTGTTTCGGGCCAG
GCTAGCTGACTGTAGCCATCTCAAAAGTATTTGATACCAAGTAGTCCTTCTCAGGTATCC[AG]CACCTGGCAGCCTTGTTTCGGGCCAGCAGGTTGTTCCAC
11472 IS [AG] CAGCCAGCATCCTGGACAACT
11480 I A AGGCGGCCCAGCCCCCAC
11480 P G A ATGACGTGGCAGACGCAGCGCCTGGGY
11480 P T A CGCGCCGAGGTCAGCGCCTGGGY
11480 T G A CCTTCCCAGGCGCTGCTGGGGGCTGGGCCGCCTTG
11480 T T A CCTTCCCAGGCGCTGATGGGGGCTGGGCCGCCTTG
TCTTGGTGTCGGCCCTCAAACCTCAGGATCCTGGAGCATCTCAAGGCGGCCCAGCCCCCA[GT]CAGCGCCTGGGAAGGTGTGGCAGTCATGCAACCAAAT
11480 IS [GT] TTATCACCCTCCCAGAGGGACCC
11502 I A GGGGTAAGGCTCTGGTGATCCTGGGACA
11502 P T A CGCGCCGAGGTGGCGGTAGCTGATGY
11502 P C A ATGACGTGGCAGACCGGCGGTAGCTGATY
11502 T T A CCAGCATCAGCTACCGCCAGTCCCAGGATCACCAGAGCCTTACCCCGG
11502 T C A CCAGCATCAGCTACCGCCGGTCCCAGGATCACCAGAGCCTTACCCCGG
CTGAGAGGGCTCCGGACCGGGAGCTTGCTGACCGGGGTAAGGCTCTGGTGATCCTGGGAC[TC]GGCGGTAGCTGATGCTGGGGGGCCCCCGGGGTCAG
11502 IS [TC] CTCCTCCTTATTCTGGGCCAACTCC MGC2574
11503 I S CGGGGGCCCCCCAGCATCAT
11503 P C S ATGACGTGGCAGACGCTACCGCCAGTCCY
11503 P G S CGCGCCGAGGCCTACCGCCAGTCCY
11503 T C S CCTGGGACTGGCGGTAGCTGATGCTGGGGGGCCCCCGGG
11503 T G S CCTGGGACTGGCGGTAGGTGATGCTGGGGGGCCCCCGGG
CTCCGGACCGGGAGCTTGCTGACCGGGGTAAGGCTCTGGTGATCCTGGGACTGGCGGTAG[CG]TGATGCTGGGGGGCCCCCGGGGTCAGCTCCTCCTTA
11503 IS [CG] TTCTGGGCCAACTCCGAGGCCAGT MGC2574
11522 I S AGGAGAAAAATGAGATTCCTGTTATTGCTTTATTCCTCCTGCAGAAAA
11522 P G S ATGACGTGGCAGACCGTTGGTGCGTCCY
11522 P A S CGCGCCGAGGTGTTGGTGCGTCCCY
11522 T G S GGCTGGGACGCACCAACGTTTCTGCAGGAGGAATAAAGCAATAACAGGAATCTCATTTTTCTCCTTA
11522 T A S GGCTGGGACGCACCAACATTTCTGCAGGAGGAATAAAGCAATAACAGGAATCTCATTTTTCTCCTTA
GCTCATCCTTCTCTTGGCACCACCTGCCTCTCATCTTGGCCCTGGCTGGGACGCACCAAC[GA]TTTCTGCAGGAGGAATAAAGCAATAACAGGAATCTCATT
11522 IS [GA] TTTCTCCTTAAAATAATATCT
11548 I A TCCTGCAGACACTGAGGGATGATTCTACAAGAAAAGGTT
11548 P A A CGCGCCGAGGAAGAATGTATTTACATTAACATAAACAATY
11548 P C A ATGACGTGGCAGACCAGAATGTATTTACATTAACATAAACAATY
11548 T A A AAACATTGTTTATGTTAATGTAAATACATTCTTACCTTTTCTTGTAGAATCATCCCTCAGTGTCTGCAGGATT
11548 T C A AAACATTGTTTATGTTAATGTAAATACATTCTGACCTTTTCTTGTAGAATCATCCCTCAGTGTCTGCAGGATT

FIGURE 129E



KIAA0138

FIGURE 129E



				AAGGAAATGTGCACATTCTTATTTAATTTTTATACTAAATTTTCAAGGTGGAATTACCAG[TC]CCCAGTCTACAGATGAGGAAACAGAGGTGTAGAGGTTCCTA
11821	IS	[TC]		CTACAGAAGCAGAATGAGG
11860	I		A	CCGGCAGCAGCGACTCCTTGAGCC
11860	P	A	A	CGCGCCGAGGACCAGCAAGAGCCCY
11860	P	T	A	ATGACGTGGCAGACTCCAGCAAGAGCCCY
11860	T	A	A	CGGAGGGCTCTTGCTGGTGCTCAAGGAGTCGCTGCTGCCGGCT
11860	T	T	A	CGGAGGGCTCTTGCTGGAGCTCAAGGAGTCGCTGCTGCCGGCT
				CTGGCCCTGACTGCAGCCTGTGACATCCCTCCCACAGCCGGCAGCAGCGACTCCTTGAGC[AT]CCAGCAAGAGCCCTCCGGGAAAGAGCAGCCTCGGCCT
11860	IS	[AT]		GGACAACTCGCTGTCCACTTCTT
11903	I		A	CAACTCATCTCACATTCTTCCAAACTATTTGGACAACAGAGCTTTT
11903	P	C	A	ATGACGTGGCAGACCTCATCACCTAATGCAGATTAY
11903	P	A	A	CGCGCCGAGGATCATCACCTAATGCAGATTACY
11903	T	C	A	GACTGTAATCTGCATTAGGTGATGAGAAAGCTCTGTTGTCCAAATAGTTTGGAAGAATGTGAGATGAGTTGCA
11903	T	A	A	GACTGTAATCTGCATTAGGTGATGATAAAGCTCTGTTGTCCAAATAGTTTGGAAGAATGTGAGATGAGTTGCA
				CTGCCATTCAGACTGCAACTCATCTCACATTCTTCCAAACTATTTGGACAACAGAGCTTT[CA]TCATCACCTAATGCAGATTACAGTCTCACAGAATTGAGTGT
11903	IS	[CA]		TCAGGCAGACACTGATGTG
11912	I		S	CCCTGCACCTCTGGGAGAAGAGCCCA
11912	P	G	S	ATGACGTGGCAGACCAGCCCTGGGATTCCY
11912	P	A	S	CGCGCCGAGGTAGCCCTGGGATTCCY
11912	T	G	S	CATGGGAATCCCAGGGCTGGGGCTCTTCTCCCAGAGGTGCAGGGTC
11912	T	A	S	CATGGGAATCCCAGGGCTAGGGCTCTTCTCCCAGAGGTGCAGGGTC
				GGTGAGTTCTCTGTGTGCAGTCCTGATCAGCAAGTAGAAACACATGGGAATCCCAGGGCT[GA]GGGCTCTTCTCCCAGAGGTGCAGGGTCAGGGCTGGGC
11912	IS	[GA]		TGGTTTTCTTCAGCAGAGTGAGG
11924	I		S	ACATATTTGCCAAGATGCTGACGGGGTGTTCCA
11924	P	G	S	ATGACGTGGCAGACCCCCAGCACCTCCY
11924	P	A	S	CGCGCCGAGGTCCCAGCACCTCCTY
11924	T	G	S	GGGGAGGAGGTGCTGGGGGGAACACCCCGTCAGCATCTTGGCAAATATGTCC
11924	T	A	S	GGGGAGGAGGTGCTGGGAGGAACACCCCGTCAGCATCTTGGCAAATATGTCC
				AGCCTGTGAGGAGGACTGCCGTCCGTTACGTCTGTGGAGGGAAGGGGAGGAGGTGCTGGG[GA]GGAACACCCCGTCAGCATCTTGGCAAATATGTCCCT
11924	IS	[GA]		AGGACCCCACTGTATGTGGAAGCA
11926	I		S	CCCCGGGGGGTGGTCTCATCTCTGT
11926	P	G	S	CGCGCCGAGGCTAGGGCACCTGTTCTY
11926	P	C	S	ATGACGTGGCAGACGTAGGGCACCTGTTCTY
11926	T	G	S	AGAGAGAACAGGTGCCCTAGCAGAGATGAGACCACCCCCCGGGGAG
11926	T	C	S	AGAGAGAACAGGTGCCCTACCAGAGATGAGACCACCCCCCGGGGAG
				TGGACAGTGTGAGGGATGTAAAGAGGAGAAAGGCAGACCCCAGAGAGAACAGGTGCCCTA[GC]CAGAGATGAGACCACCCCCCGGGGAGTGGGGAGAGC
11926	IS	[GC]		CTCAATCAGAGTCCCTTACTGGAG
11928	I		S	ACTGAAACAGAAGCAAAGCCCCTTTTCCCTCCC
11928	P	T	S	CGCGCCGAGGACATTCTGACAGCTGAAAAY
11928	P	A	S	ATGACGTGGCAGACTCATTCTGACAGCTGAAAAY
11928	T	T	S	TGAGTTTTCAGCTGTCAGAATGTGGAGGGAAAAGGGGCTTTGCTTCTGTTTCAGTCC
11928	T	A	S	TGAGTTTTCAGCTGTCAGAATGAGGAGGGAAAAGGGGCTTTGCTTCTGTTTCAGTCC
				CCTGGCACCTTGGACAGTGATTTGATGGTTAGTTGAGGTGAGTTTTCAGCTGTCAGAATG[TA]GGAGGGAAAAGGGGCTTTGCTTCTGTTTCAGTCCCGAG
11928	IS	[TA]		AGTGAGCCTGAAAGAGTGGCAC
11929	I		A	GGCTGAGGCTCATGATTTTGATTCACCTAAGGTACTGAAAACT
11929	P	A	A	CGCGCCGAGGATCCTGAAAACCTTAGGGTY
11929	P	G	A	ATGACGTGGCAGACGTCCTGAAAACCTTAGGGY
11929	T	A	A	CCCAACCCTAAGGTTTTCAGGATGTTTTCAGTACCTTAGGTGAATCAAAATCATGAGCCTCAGCCCA
11929	T	G	A	CCCAACCCTAAGGTTTTCAGGACGTTTTCAGTACCTTAGGTGAATCAAAATCATGAGCCTCAGCCCA
				GATTGAGGGCAGAGGCTGGGCTGAGGCTCATGATTTTGATTCACCTAAGGTACTGAAAAC[AG]TCCTGAAAACCTTAGGGTTGGGGAGTTGAGGAGCCCTA
11929	IS	[AG]		ATGGGATATGAGCTTGAAACCA
11943	I		S	CCGCGCTCCCGCGCCTT
11943	P	C	S	ATGACGTGGCAGACGTCCGGCTCACCCY
11943	P	T	S	CGCGCCGAGGATCCGGCTCACCCY
11943	T	C	S	GTCTGGGTGAGCCGGACAGGCGCGGGAGCGCGGGG
11943	T	T	S	GTCTGGGTGAGCCGGATAGGCGCGGGAGCGCGGGG
				CCACATCTGCTACTTCCTCGACTACGGCGCGCTCAGCCTCTACAGTCTGGGTGAGCCGGA[CT]AGGCGCGGGAGCGCGGGGTCTGGGCGTCCCGGAGCG
11943	IS	[CT]		GGGCGAGGGGTGGGACGCGGGACA
11957	I		S	GATTCCACTGTGGGGATGCCTCTTGTTAGAGCT
11957	P	C	S	ATGACGTGGCAGACGTACTGCATTTGTACACGGY
11957	P	T	S	CGCGCCGAGGATACTGCATTTGTACACGGY
11957	T	C	S	CTCCCCGTGTACAAATGCAGTACGCTCTAACAAGAGGCATCCCCACAGTGGAATCCT
11957	T	T	S	CTCCCCGTGTACAAATGCAGTATGCTCTAACAAGAGGCATCCCCACAGTGGAATCCT
				CACATTGGACGGCAGTGTGCGTTCCAATTATAGCTCCTCTCCCCGTGTACAAATGCAGTA[CT]GCTCTAACAAGAGGCATCCCCACAGTGGAATCCTCATAA
11957	IS	[CT]		CTCGAGGTGTTGCAATCAGAT
11963	I		A	GCTGTCGCCTCAGTCTGCGCACAT
11963	P	A	A	CGCGCCGAGGAGCATGCACCCCAY
11963	P	G	A	ATGACGTGGCAGACGGCATGCACCCCAY
11963	T	A	A	ACCCTGGGGTGCATGCTTGTGCGCAGACTGAGGCGACAGCTG
11963	T	G	A	ACCCTGGGGTGCATGCCTGTGCGCAGACTGAGGCGACAGCTG
				GCAAGAGAGCTGCAGCCTGGGCCCGAGCTCAGAAACAGCTGTCGCCTCAGTCTGCGCACA[AG]GCATGCACCCCAGGGTAGTGCCTGCAGGGATGCATG
11963	IS	[AG]		TGTCCCCGTGGGGGTGCCTGTGCC
11964	I		A	CCCACAACAGAAGGGGCTCTCGGCTA
11964	P	T	A	CGCGCCGAGGTGTCTGGCCTCTCTGY
11964	P	C	A	ATGACGTGGCAGACCGTCTGGCCTCTCTGY
11964	T	T	A	AGGCCAGAGAGGCCAGACAAGCCGAGAGCCCCTTCTGTTGTGGGCA
11964	T	C	A	AGGCCAGAGAGGCCAGACGAGCCGAGAGCCCCTTCTGTTGTGGGCA
				CTCCCCAGCCTGTGCAGGCCTGCAAACCCAGGCTGCCCACAACAGAAGGGGCTCTCGGCT[TC]GTCTGGCCTCTCTGGCCTCCCAAGCAGGTATGGGAGG
11964	IS	[TC]		GCGGGGCAAGTGTGGGCTGATCA
11971	I		S	CTTTGGTGTGAGGTGTGCTGGCCTCATGT
11971	P	T	S	CGCGCCGAGGAAGATGATGGATAAGAAAGTGGY
11971	P	C	S	ATGACGTGGCAGACGAGATGATGGATAAGAAAGTGGY
11971	T	T	S	TCTGCCACTTTCTTATCCATCATCTTCATGAGGCCAGCACACCTCACACCAAAGCC
11971	T	C	S	TCTGCCACTTTCTTATCCATCATCTCCATGAGGCCAGCACACCTCACACCAAAGCC
				CGGAATGGACCAGGTCTAATATTTGTATTTTCTGATCTGCCACTTTCTTATCCATCATCT[TC]CATGAGGCCAGCACACCTCACACCAAAGCCCACCAGGCTC
11971	IS	[TC]		TTTTTCTTTCTATACCCCAT
12004	I		A	TGAAGTCTTCATGAGTAGTTTTCAGAAAGGGAGTTGACTCCCA
12004	P	T	A	CGCGCCGAGGTGTGAGGGAATCCCTCY
12004	P	C	A	ATGACGTGGCAGACCGTGAGGGAATCCCTY
12004	T	T	A	ATGAGAGGGATTCCCTCACAGGGAGTCAACTCCCTTTCTGAAAACTACTCATGAAGACTTCAGG
12004	T	C	A	ATGAGAGGGATTCCCTCACGGGGAGTCAACTCCCTTTCTGAAAACTACTCATGAAGACTTCAGG
				GACAATGCTTCAAACTCCTGAAGTCTTCATGAGTAGTTTTCAGAAAGGGAGTTGACTCCC[TC]GTGAGGGAATCCCTCTCATAGGATCCCATGCCCTGAGAA
12004	IS	[TC]		TAAGTTGGAAGAGCTCAGCCA
12021	I		S	CTTGAAGGCATAACCAACATACTTCTGAATTTTCCCAC
12021	P	A	S	CGCGCCGAGGTGCATCCTTCTTCCCAY
12021	P	C	S	ATGACGTGGCAGACGGCATCCTTCTTCCCAY
12021	T	A	S	AAAGTGGGAAGAAGGATGCATGGGAAAATTCAGAAGTATGTTGGTTATGCCTTCAAGGA
12021	T	C	S	AAAGTGGGAAGAAGGATGCCTGGGAAAATTCAGAAGTATGTTGGTTATGCCTTCAAGGA

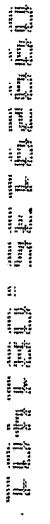
P2RXL1

SLC7A4

				TGGCACTTCTTTCTGACATGGAACCTTATGTGCCATTAAGCAAAGTGGGAAGAAGGATGC[AC]TGGGAAAATTCAGAAGTATGTTGGTTATGCCTTCAAGGA	
12021	tS	[AC]		TAAGTAGTATGAGAAACAATT	
12051	I		S	GCTGTCATTGTTCCCCCTGGCTTCTCCTTTA	
12051	P	A	S	CGCGCCGAGGTGGAACATAGAAATATCCTAAACTY	
12051	P	G	S	ATGACGTGGCAGACCGGAACATAGAAATATCCTAAACY	
12051	T	A	S	AAAGAGTTTAGGATATTTCTATGTTCCAAAAGGAGAAGCCAGGGGGAACAATGACAGCTG	
12051	T	G	S	AAAGAGTTTAGGATATTTCTATGTTCCGAAAGGAGAAGCCAGGGGGAACAATGACAGCTG	
				AATCACAAGAAGGCATAAGTAACTTGAAATGACAAAGAGTTTAGGATATTTCTATGTTCC[AG]AAAGGAGAAGCCAGGGGGAACAATGACAGCTGAAGACCT	
12051	tS	[AG]		GCTGAATAACTTTTGACTGTT	
12053	I		A	AGTTTGGTGTGCGATATGACCACATTTGGCCTA	
12053	P	T	A	CGCGCCGAGGTTCAAAAGGATGGTCTTTGAY	
12053	P	C	A	ATGACGTGGCAGACCTCAAAAGGATGGTCTTTGAY	
12053	T	T	A	GGCCTCAAAGACCATCCTTTTGAAAGGCCAAATGTGGTCATATCGCACACCAAACTGT	
12053	T	C	A	GGCCTCAAAGACCATCCTTTTGAGAGGCCAAATGTGGTCATATCGCACACCAAACTGT	
				AAAATTTTCCATAACTACTTTTGCGAACAGTTTGGTGTGCGATATGACCACATTTGGCCT[TC]TCAAAAGGATGGTCTTTGAGGCCTGAAACCAAGGTTGTTA	
12053	tS	[TC]		ATAAGGGAATACAAGTATTT	
12094	I		A	TGGGTCATGCCTGTGCCCTGGCA	
12094	P	C	A	ATGACGTGGCAGACCGCCTCCCTCTGGY	
12094	P	T	A	CGCGCCGAGGTGCCTCCCTCTGGY	
12094	T	C	A	CCAGCCAGAGGGAGGCGGCCAGGGCACAGGCATGACCCAGC	
12094	T	T	A	CCAGCCAGAGGGAGGCAGCCAGGGCACAGGCATGACCCAGC	
				GCTGCTGCCCGAGGACGGCATCATGGCCGAGCACCTGCTGGGTCATGCCTGTGCCCTGGC[CT]GCCTCCCTCTGGCTGGGGGTGCTGCCCACACTCACT	
12094	tS	[CT]		CTTGGCTTGCTGGTCCACTAGGGC	SEMA7A
12118	I		A	ACCATGAATGGTGGGGCGTTAAACAGGAATAGGAAAT	
12118	P	A	A	CGCGCCGAGGAGCCAGTTCTCAAATTGTTY	
12118	P	C	A	ATGACGTGGCAGACCGCCAGTTCTCAAATTGTY	
12118	T	A	A	AAGCAACAATTTGAGAACTGGCTTTTCCTATTCCTGTTTAACGCCCCACCATTCATGGTGA	
12118	T	C	A	AAGCAACAATTTGAGAACTGGCGTTTCCTATTCCTGTTTAACGCCCCACCATTCATGGTGA	
				CGTAAGGCAATGGAAAAGAAATTCACCATGAATGGTGGGGCGTTAAACAGGAATAGGAAA[AC]GCCAGTTCTCAAATTGTTGCTTTCCAGCAGACAAATGCA	
12118	tS	[AC]		AGATG	
12141	I		S	CCAACCCGTGTCAGGTCCTTCATCCTGGC	
12141	P	T	S	CGCGCCGAGGATACTCATAACGCGGCY	
12141	P	A	S	ATGACGTGGCAGACTTACTCATAACGCGGCY	
12141	T	T	S	TGGGGCCGCGTTATGAGTATCCAGGATGAAGGACCTGACACGGGTTGGGA	
12141	T	A	S	TGGGGCCGCGTTATGAGTAACCAGGATGAAGGACCTGACACGGGTTGGGA	
				TTGGCTTCTCTAGAAACGCGACGCCCAATGGGAGTGAGAAATGGGGCCGCGTTATGAGTA[TA]CCAGGATGAAGGACCTGACACGGGTTGGGAGAGAAAG	
12141	tS	[TA]		AGAAACTCTGGGGAGATGGGGAA	
12163	I		S	TGGAGTGTCCCATGAGAGATGCAAAGTGCTTGAT	
12163	P	C	S	ATGACGTGGCAGACGTTTTCTGACTCTTCCTTTCAY	
12163	P	T	S	CGCGCCGAGGATTTTCTGACTCTTCCTTTCAY	
12163	T	C	S	GGTCTGAAAGGAAGAGTCAGAAAACTCAAGCACTTTGCATCTCTCATGGGACACTCCAGC	
12163	T	T	S	GGTCTGAAAGGAAGAGTCAGAAAATTCAAGCACTTTGCATCTCTCATGGGACACTCCAGC	
				CAAAGACAGGGTGGTGGGTCACGTGTGTCTTGGGGGGGTCTGAAAGGAAGAGTCAGAAAA[CT]TCAAGCACTTTGCATCTCTCATGGGACACTCCAGCAGC	
12163	tS	[CT]		ACCTGGATGTGACCATCCTAAG	
12186	I		S	CCCGGAGGGGCCTGGGATGCT	
12186	P	T	S	CGCGCCGAGGACCCTCTGAGTGCTCY	
12186	P	C	S	ATGACGTGGCAGACGCCCTCTGAGTGCTY	
12186	T	T	S	CCGTGAGCACTCAGAGGGTGCATCCCAGGCCCCTCCGGGGA	
12186	T	C	S	CCGTGAGCACTCAGAGGGCGCATCCCAGGCCCCTCCGGGGA	
				GGGCCAGCCGAGCCGACCCGGGCTTCTGGGGGACCGCGGGGGCCGTGAGCACTCAGAGGG[TC]GCATCCCAGGCCCCTCCGGGGACCCGGCCAGCCT	
12186	tS	[TC]		GAAGATGCCGACGAACGGCCTGCACC	FSCN2
12213	I		A	GTCCCCTAAGCCCCGCCCCTGA	
12213	P	C	A	ATGACGTGGCAGACCCCCAGGTTCTCCTGY	
12213	P	T	A	CGCGCCGAGGTCCCAGGTTCTCCTGY	
12213	T	C	A	GCTCCAGGAGAACCTGGGGCAGGGGCGGGGCTTAGGGGACGA	
12213	T	T	A	GCTCCAGGAGAACCTGGGACAGGGGCGGGGCTTAGGGGACGA	
				GGTGCAGCCCGGGTCGGGGTGGGGCTTCGTACTAACCTCGTCCCCTAAGCCCCGCCCCTG[CT]CCCAGGTTCTCCTGGAGCTGCTGCCGCGCCTCCTGG	
12213	tS	[CT]		GCTCCCCGCCGCCGCCCGAGGCCC	
12239	I		S	TGGTTGTCAATGAGAAAGGAAGAGTTAGTAGCTTGTGA	
12239	P	G	S	ATGACGTGGCAGACCATAAGATTTTAATTTTTATTTTGGCCY	
12239	P	A	S	CGCGCCGAGGTATAAGATTTTAATTTTTATTTTGGCCCY	
12239	T	G	S	TACTGGGCCAAAATAAAAATTAAAATCTTATGCACAAGCTACTAACTCTTCCTTTCTCATTGACAACCACT	
12239	T	A	S	TACTGGGCCAAAATAAAAATTAAAATCTTATACACAAGCTACTAACTCTTCCTTTCTCATTGACAACCACT	
				AGTCAGGGGGAATGCTGATAGACTATATCTACTGGGCCAAAATAAAAATTAAAATCTTAT[GA]CACAAGCTACTAACTCTTCCTTTCTCATTGACAACCACTAT	
12239	tS	[GA]		TATAATGTCTTAGTCATTC	
12300	I		A	TGGAGGGGTGGCCCCTCCCAT	
12300	P	G	A	ATGACGTGGCAGACGGGGTCCTGCTGGY	
12300	P	C	A	CGCGCCGAGGCGGGTCCTGCTGGY	
12300	T	G	A	TCCCCCAGCAGGACCCCTGGGAGGGGCCACCCCTCCACC	
12300	T	C	A	TCCCCCAGCAGGACCCGTGGGAGGGGCCACCCCTCCACC	
				AACCAGGAGATTCCGGCCTCTGCAACCGTGGGGCATGCGGTGGAGGGGTGGCCCCTCCCA[GC]GGGTCCTGCTGGGGGAGTCAGTCCAGGCCAGGCCT	
12300	tS	[GC]		CAAGCCCCACCCCAGCTGGGTGTGA	
12322	I		A	CCCCACTGCCTCAGGCCTCATTATCCTCT	
12322	P	A	A	CGCGCCGAGGACCAGGGTCATTTCGAY	
12322	P	G	A	ATGACGTGGCAGACGCCAGGGTCATTTCGY	
12322	T	A	A	AGACTCGAAATGACCCTGGTGAGGATAATGAGGCCTGAGGCAGTGGGGAC	
12322	T	G	A	AGACTCGAAATGACCCTGGCGAGGATAATGAGGCCTGAGGCAGTGGGGAC	
				ACATCCCATCCACTCTGGCCACTTTCTGTTGTCCCCACTGCCTCAGGCCTCATTATCCTC[AG]CCAGGGTCATTTCGAGTCTCGCCCTGGAGTGGCCTCTGT	
12322	tS	[AG]		CCCTCCTGGGACTCCCTCCTG	
12353	I		A	CTGCACCTCACAGGCAAGTGGACAAAATAATCTTAACTACAA	
12353	P	C	A	ATGACGTGGCAGACCCTCACAGGCAAGCAY	
12353	P	T	A	CGCGCCGAGGTCTCACAGGCAAGCAY	
12353	T	C	A	GTGCTGCTTGCCTGTGAGGTGTAGTTAAGATTATTTTGTCCACTTGCCTGTGAGGTGCAGTT	
12353	T	T	A	GTGCTGCTTGCCTGTGAGATGTAGTTAAGATTATTTTGTCCACTTGCCTGTGAGGTGCAGTT	
				CATGACAAAATAATCATAACTGCACCTCACAGGCAAGTGGACAAAATAATCTTAACTACA[CT]CTCACAGGCAAGCAGCACTCTGGCACTGGCAGAGCACTT	
12353	tS	[CT]		CTTATCTAATATGTCCCATTT	
12417	I		A	AGGTGGCCGCAGGAACCTGACCTT	
12417	P	G	A	ATGACGTGGCAGACGGTGAGGAATGCCGAY	
12417	P	A	A	CGCGCCGAGGAGTGAGGAATGCCGAGY	
12417	T	G	A	GTTCCTCGGCATTCCTCACCAGGTCAGGTTCCTGCGGCCACCTCC	
12417	T	A	A	GTTCCTCGGCATTCCTCACTAGGTCAGGTTCCTGCGGCCACCTCC	
				GCTTCAAAACATCAGGAGCACGTCGGCCTCATGAGGGAGGTGGCCGCAGGAACCTGACCT[GA]GTGAGGAATGCCGAGGAACCGGCCGCCCACGGGCCG	
12417	tS	[GA]		AAGCCCCCAAGCCTCAAGGCTGAG	
12470	I		S	CCTGCTGGGATGGCGCCTGGTCT	
12470	P	T	S	CGCGCCGAGGAGTGATGCTATCCCCCY	
12470	P	C	S	ATGACGTGGCAGACGGTGATGCTATCCCCCY	
12470	T	T	S	GGTCGGGGGATAGCATCACTGACCAGGCGCCATCCCAGCAGGAT	
12470	T	C	S	GGTCGGGGGATAGCATCACCGACCAGGCGCCATCCCAGCAGGAT	

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FIGURE 129E



				ATTTCAGGGGCTGGAGAGTGCAACAGAGAAAGGGAAAGGAAGGTCGGGGGATAGCATCAC[TC]GACCAGGCGCCATCCCAGCAGGATCTCGGCCAGTCTC
12470	IS	[TC]		CCCAACTTGGGACACCTGATTTT
12483	I		S	GGTCCTTGACCTTCCTGAATTTCGGTACAGAA
12483	P	A	S	CGCGCCGAGGTCCTGTTTAAATGAGTTTCCTY
12483	P	G	S	ATGACGTGGCAGACCCCTGTTTAAATGAGTTTCCTY
12483	T	A	S	AGTCAGGAAACTCATTTAAACAGGATCTGTACCGAAATTCAGGAAGGTCAAGGACCCT
12483	T	G	S	AGTCAGGAAACTCATTTAAACAGGGTCTGTACCGAAATTCAGGAAGGTCAAGGACCCT
				TCAACAAATAAAAGATATACCCTTTTCAGACTCTGAAGTCAGGAAACTCATTTAAACAGG[AG]TCTGTACCGAAATTCAGGAAGGTCAAGGACCCTTTAAAAA
12483	IS	[AG]		CAAAATCACAGGGGTTATTT
12540	I		A	CCCTGCTGTCCCAGGCGGGCC
12540	P	G	A	ATGACGTGGCAGACGCTGGCCACCCCY
12540	P	T	A	CGCGCCGAGGTCTGGCCACCCCY
12540	T	G	A	GCTGGGGGTGGCCAGCGCCCGCCTGGGACAGCAGGGAG
12540	T	T	A	GCTGGGGGTGGCCAGAGCCCGCCTGGGACAGCAGGGAG
				AGGCGAGGTCGTTTCCCAGGACCCACCACCCTGCGCCACTCCCTGCTGTCCCAGGCGGGC[GT]CTGGCCACCCCCAGCCGTAGCACTGTGTCCACACTG
12540	IS	[GT]		CCCCTGGCCCCACCGTCGCACCCC
12569	I		S	CCAGCTAAACAATACTTGCTCTTGTGAAGCTAAATGTATATTTATTTGTTTTTATA
12569	P	A	S	CGCGCCGAGGTTGCCAGAGAAAAAGTTTTGY
12569	P	G	S	ATGACGTGGCAGACCTGCCAGAGAAAAAGTTTTGY
12569	T	A	S	AAAACAAAACTTTTTCTCTGGCAAATAAAAACAAATAAATATACATTTAGCTTCACAAGAGCAAGTATTGTTTAGCTGGGT
12569	T	G	S	AAAACAAAACTTTTTCTCTGGCAGATAAAAACAAATAAATATACATTTAGCTTCACAAGAGCAAGTATTGTTTAGCTGGGT
				AATATCTATTAAACATTTTAAAACTTAACCTGAATGTAAAACAAAACTTTTTCTCTGGCA[AG]ATAAAAACAAATAAATATACATTTAGCTTCACAAGAGCAAGTA
12569	IS	[AG]		TTGTTTAGCTGGGTAGC
12574	I		S	CCCCAGGCCGCCTGGTGGATGA
12574	P	G	S	ATGACGTGGCAGACCGTTGAAGAACTATGAGATCAY
12574	P	A	S	CGCGCCGAGGTGTTGAAGAACTATGAGATCATCY
12574	T	G	S	AGAAGATGATCTCATAGTTCTTCAACGCATCCACCAGGCGGCCTGGGGAG
12574	T	A	S	AGAAGATGATCTCATAGTTCTTCAACACATCCACCAGGCGGCCTGGGGAG
				ACCCCAGCCAGGGCCACCTCAGAGCCGGCCAGGTAGAAGATGATCTCATAGTTCTTCAAC[GA]CATCCACCAGGCGGCCTGGGGAGGAGGAGGAAGAGGA
12574	IS	[GA]		GGGAGAGGTAAGGTCCTGTGGGG
12595	I		S	CCCGGTAAATCTTCACCCAAATGTCACCTA
12595	P	G	S	ATGACGTGGCAGACCTTCAGGAAAGCCTTCCY
12595	P	A	S	CGCGCCGAGGTTTCAGGAAAGCCTTCCY
12595	T	G	S	TCAGGGAAGGCTTTCCTGAAGAGGTGACATTTGGGTGAAGATTTACCGGGTA
12595	T	A	S	TCAGGGAAGGCTTTCCTGAAAAGGTGACATTTGGGTGAAGATTTACCGGGTA
				AGGAAAGATACATGACATGCTAGAGTAAGAGTCAGGGAAATCAGGGAAGGCTTTCCTGAA[GA]AGGTGACATTTGGGTGAAGATTTACCGGGTAAATAAGAA
12595	IS	[GA]		TTCATTAGGTGAAGGTATTCC
12596	I		A	GCTGCTCGAGGGCTAAGGCTGTGTTTTACTA
12596	P	T	A	CGCGCCGAGGTATCCAGTGCCTACAACAY
12596	P	C	A	ATGACGTGGCAGACCATCCAGTGCCTACAACY
12596	T	T	A	GCACTGTTGTAGGCACTGGATAAGTAAAACACAGCCTTAGCCCTCGAGCAGCTC
12596	T	C	A	GCACTGTTGTAGGCACTGGATGAGTAAAACACAGCCTTAGCCCTCGAGCAGCTC
				TTGTTTTCTGTTTCAAACTTACCTTCTTGAGCTGCTCGAGGGCTAAGGCTGTGTTTTACT[TC]ATCCAGTGCCTACAACAGTGCTTGGTGCATACTAGGCACG
12596	IS	[TC]		AATACAGTGCAATCTTTCTT
12646	I		A	GGACACAGACAGCCAGGTGGAAACCATGTCT
12646	P	A	A	CGCGCCGAGGACCTTGTGTGGCCTAGY
12646	P	G	A	ATGACGTGGCAGACGCCTTGTGTGGCCTY
12646	T	A	A	AAAGCTAGGCCACACAAGGTGACATGGTTTCCACCTGGCTGTCTGTGTCCCG
12646	T	G	A	AAAGCTAGGCCACACAAGGCGACATGGTTTCCACCTGGCTGTCTGTGTCCCG
				AGACATGCAGAGACACATGGGAAGTAAGCGGGACACAGACAGCCAGGTGGAAACCATGTC[AG]CCTTGTGTGGCCTAGCTTTCAGAAGTCATGCACCATCA
12646	IS	[AG]		CTCTGCCACACGCTGTTATGCA
12655	I		S	CCAGCTATGGCGCCTGGCCAGCT
12655	P	C	S	ATGACGTGGCAGACGTCTATCCAGGTGCTGGY
12655	P	T	S	CGCGCCGAGGATCTATCCAGGTGCTGGY
12655	T	C	S	GCCCCCAGCACCTGGATAGACGCTGGCCAGGCGCCATAGCTGGCT
12655	T	T	S	GCCCCCAGCACCTGGATAGATGCTGGCCAGGCGCCATAGCTGGCT
				AGAAGCTGGTGGAGTGGGACATGGAGATCTGGGAACCAGAGCCCCCAGCACCTGGATAGA[CT]GCTGGCCAGGCGCCATAGCTGGCTGCCTTGACAGAG
12655	IS	[CT]		CTTAGGGACTGGTAGTTGGTGGAT
12690	I		A	GGGCCCTGGATGGTGAAACAGGGTGAGT
12690	P	G	A	ATGACGTGGCAGACGCACGCAGAGCCAY
12690	P	A	A	CGCGCCGAGGACACGCAGAGCCATY
12690	T	G	A	CCGCATGGCTCTGCGTGCCTCACCCTGTTTCACCATCCAGGGCCCTG
12690	T	A	A	CCGCATGGCTCTGCGTGTCTCACCCTGTTTCACCATCCAGGGCCCTG
				ATCTGTAGAGAGGATTCTCCCTCTCCCCTCACAGGGCCCTGGATGGTGAAACAGGGTGAG[GA]CACGCAGAGCCATGCGGCTGGGGTATTGTGGAGACCT
12690	IS	[GA]		GCATGGTGTTTCCCTTTCATCCC
12745	I		A	GGTTGGCCTTGGTTGGCCAAGCTGTTATTTTTATTAGTT
12745	P	G	A	ATGACGTGGCAGACGTCTGTAGCCTCAGGGY
12745	P	C	A	CGCGCCGAGGCTCTGTAGCCTCAGGGY
12745	T	G	A	TGGGCCCTGAGGCTACAGACACTAATAAAAATAACAGCTTGGCCAACCAAGGCCAACCCA
12745	T	C	A	TGGGCCCTGAGGCTACAGAGACTAATAAAAATAACAGCTTGGCCAACCAAGGCCAACCCA
				TGTCATGAACAGTGGCAGCCTGGGTTGGCCTTGGTTGGCCAAGCTGTTATTTTTATTAGT[GC]TCTGTAGCCTCAGGGCCCAACACAGAACCTGACCCCAG
12745	IS	[GC]		GAGGTGCCAACACCACCACCAC
12748	I		S	GGGCCACTGAGATTCGGTGTAGTTCTGCTAGAA
12748	P	G	S	ATGACGTGGCAGACCATGAGTTGACAGACCTGY
12748	P	A	S	CGCGCCGAGGTATGAGTTGACAGACCTGAY
12748	T	G	S	CTGGTCAGGTCTGTCAACTCATGTCTAGCAGAACTACACCGAATCTCAGTGGCCCTC
12748	T	A	S	CTGGTCAGGTCTGTCAACTCATATCTAGCAGAACTACACCGAATCTCAGTGGCCCTC
				CAAGGAAATGCAGTTTGGAACAGTCAATCTCACTGTACCTGGTCAGGTCTGTCAACTCAT[GA]TCTAGCAGAACTACACCGAATCTCAGTGGCCCTCACAGG
12748	IS	[GA]		ACTCAGCTGAAAAACAGTAAA
12752	I		S	TGTGTACCACTGAGCAGGGTACTTAATCTCTGTAAAA
12752	P	A	S	CGCGCCGAGGTGCCAATCCCCTCATY
12752	P	G	S	ATGACGTGGCAGACCGCCAATCCCCTCAY
12752	T	A	S	AGAGATGAGGGGATTGGCATTTACAGAGATTAAGTACCCTGCTCAGTGGTACACAGC
12752	T	G	S	AGAGATGAGGGGATTGGCGTTTACAGAGATTAAGTACCCTGCTCAGTGGTACACAGC
				CATAACAACCTTTTGAGGTTGGACAATTATGTCCCCTTTTCTAGAGATGAGGGGATTGGC[AG]TTTACAGAGATTAAGTACCCTGCTCAGTGGTACACAGCTA
12752	IS	[AG]		ATAAGAGATGAGGCTGGGAC
12763	I		A	GGTGCCTTCAATTACAATTCTCCTGTCAGAGCTTAAGTCCT
12763	P	G	A	ATGACGTGGCAGACGGCTAATTAACTGCCTTTCAY
12763	P	A	A	CGCGCCGAGGAGCTAATTAACTGCCTTTCAY
12763	T	G	A	CATTTGAAAGGCAGTTAATTAGCCGGACTTAAGCTCTGACAGGAGAATTGTAATTGAAGGCACCAG
12763	T	A	A	CATTTGAAAGGCAGTTAATTAGCTGGACTTAAGCTCTGACAGGAGAATTGTAATTGAAGGCACCAG
				TCCCCAGTCTCACACACGCTGGTGCCTTCAATTACAATTCTCCTGTCAGAGCTTAAGTCC[GA]GCTAATTAACTGCCTTTCAAATGACAACCCTATATTTTTAA
12763	IS	[GA]		AGAATTTTTTTAAAACTTC
12770	I		A	CTGAGCAATAGCACGAGGCCTGTTGTCTACCT
12770	P	A	A	CGCGCCGAGGAAGTGCAGTTTAAATAGTAAGCY
12770	P	G	A	ATGACGTGGCAGACGAGTGCAGTTTAAATAGTAAGCY
12770	T	A	A	ACCGGCTTACTATTTAAACTGCACTTGGTAGACAACAGGCCTCGTGCTATTGCTCAGGG
12770	T	G	A	ACCGGCTTACTATTTAAACTGCACTCGGTAGACAACAGGCCTCGTGCTATTGCTCAGGG

FIGURE 129E



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                                AGCAGGTCCTGAGTTGGGAGCCAGTGGCCCTGAGCAATAGCACGAGGCCTGTTGTCTACC[AG]AGTGCAGTTTAAATAGTAAGCCGGTATTTCTGTTGGAT
12770 IS  [AG]                  CCTTGCTGGGAGCTGTGGGGGC
12784 I             A           GGCTGATCAGTTTCCTTGATCTCCCACTCCATTTTCTCA
12784 P     T       A           CGCGCCGAGGTGAGTTCTACAGCAATGTCY
12784 P     C       A           ATGACGTGGCAGACCGAGTTCTACAGCAATGTCY
12784 T     T       A           TAAAGACATTGCTGTAGAACTCAGAGAAAATGGAGTGGGAGATCAAGGAAACTGATCAGCCTC
12784 T     C       A           TAAAGACATTGCTGTAGAACTCGGAGAAAATGGAGTGGGAGATCAAGGAAACTGATCAGCCTC
                                CCTGCTTTCACTTTCTGGGAGAGGCTGATCAGTTTCCTTGATCTCCCACTCCATTTTCTC[TC]GAGTTCTACAGCAATGTCTTTAGCCTGAACACAAACGCAG
12784 IS  [TC]                  ACACTTGGGCTCCCACTCAG
12801 I             S           CTACGCCACACACAAGAAGAAAAATCCTTTTAAATCTTTTTAAAAT
12801 P     T       S           CGCGCCGAGGACAGACTATTCACCTCATTTTTY
12801 P     C       S           ATGACGTGGCAGACGCAGACTATTCACCTCATTTY
12801 T     T       S           GAATAAAAATGAGGTGAATAGTCTGTTTTTAAAAAGATTTAAAAGGATTTTCTTCTCTTGTGTGTGGCGTAGGC
12801 T     C       S           GAATAAAAATGAGGTGAATAGTCTGCTTTTAAAAAGATTTAAAAGGATTTTCTTCTCTTGTGTGTGGCGTAGGC
                                CTGACAGGGCACAGGAAGAAGATGTTTAGCTGGAGGAATAAAAATGAGGTGAATAGTCTG[TC]TTTTAAAAAGATTTAAAAGGATTTTCTTCTCTTGTGTGTG
12801 IS  [TC]                  GCGTAGGCTATAAGTAAAAT
12804 I             S           GAGAATTTGAGGTCTTCTCCCATATGAAACCTATTCTTTTATTTTTCTAAAAATAA
12804 P     A       S           CGCGCCGAGGTAAGATAGATGACTCCAACAGAY
12804 P     G       S           ATGACGTGGCAGACCAAGATAGATGACTCCAACAGY
12804 T     A       S           GCCATCTGTTGGAGTCATCTATCTTATATTTTTAGAAAAATAAAAGAATAGGTTTCATATGGGAGAAGACCTCAAATTCTCAT
12804 T     G       S           GCCATCTGTTGGAGTCATCTATCTTGTATTTTTAGAAAAATAAAAGAATAGGTTTCATATGGGAGAAGACCTCAAATTCTCAT
                                CAATACGGGCACATTTAAAGCCAAATATATTAAACGCCATCTGTTGGAGTCATCTATCTT[AG]TATTTTTAGAAAAATAAAAGAATAGGTTTCATATGGGAGAA
12804 IS  [AG]                  GACCTCAAATTCTCATGGC
12814 I             A           GTTTCACGATTCCAAAACAGCAAAAAAAAAAAAAAAAACCCTTTTAGAGACCTC
12814 P     A       A           CGCGCCGAGGAACAATTTTGTCCGGACCY
12814 P     T       A           ATGACGTGGCAGACTACAATTTTGTCCGGACCY
12814 T     A       A           TTTAGGTCCGGACAAAATTGTTAGGTCTCTAAAAGGGTTTTTTTTTTTTTTTTGCTGTTTTGGAATCGTGAAACAT
12814 T     T       A           TTTAGGTCCGGACAAAATTGTAAGGTCTCTAAAAGGGTTTTTTTTTTTTTTTTGCTGTTTTGGAATCGTGAAACAT
                                TCCGATGATGTTTCACGATTCCAAAACAGCAAAAAAAAAAAAAAAACCCTTTTAGAGACCT[AT]ACAATTTTGTCCGGACCTAAACACGGAAGAACGATTACCTG
12814 IS  [AT]                  ATCTAATATTGTTTTCTTT
12815 I             S           TCTTCACTCCCCCAGCCCCAATTTCTTTTTATTATAAAAGGCT
12815 P     G       S           ATGACGTGGCAGACCTGAAGGACTGCTGTTCY
12815 P     T       S           CGCGCCGAGGATGAAGGACTGCTGTTCTY
12815 T     G       S           GCTGAGAACAGCAGTCCTTCAGGCCTTTTATAATAAAAAGAAATTGGGGCTGGGGGAGTGAAGAAC
12815 T     T       S           GCTGAGAACAGCAGTCCTTCATGCCTTTTATAATAAAAAGAAATTGGGGCTGGGGGAGTGAAGAAC
                                AATTAAACCTAAGGCCAAGTAAAACAAGTCCTGTTTGAAGCTGAGAACAGCAGTCCTTCA[GT]GCCTTTTATAATAAAAAGAAATTGGGGCTGGGGGAGTGA
12815 IS  [GT]                  AGAACGCAGAAAAGGAAAGCG
12833 I             S           ACACAGGAGACACATCACAGGCCCCGA
12833 P     G       S           ATGACGTGGCAGACCGGCTGCACAGGCY
12833 P     A       S           CGCGCCGAGGTGGCTGCACAGGCY
12833 T     G       S           AGAGGCCTGTGCAGCCGCGGGGCCTGTGATGTGTCTCCTGTGTGT
12833 T     A       S           AGAGGCCTGTGCAGCCACGGGGCCTGTGATGTGTCTCCTGTGTGT
                                TAAAACTGTAGAACTGTCAGACTAGTGTTACGAATGTGGTGGTGAGAGGCCTGTGCAGCC[GA]CGGGGCCTGTGATGTGTCTCCTGTGTGTCTTTCACTCC
12833 IS  [GA]                  TATGCAGTTTGAGTTCATGATC
12883 I             S           TGTGAAGCAAAGGTCTAAAAGCTGCCCCTTGTTCT
12883 P     T       S           CGCGCCGAGGATGGAATGCATGGGAGY
12883 P     C       S           ATGACGTGGCAGACGTGGAATGCATGGGAGY
12883 T     T       S           CACCCTCCCATGCATTCCATGAACAAGGGGCAGCTTTTAGACCTTTGCTTCACAGA
12883 T     C       S           CACCCTCCCATGCATTCCACGAACAAGGGGCAGCTTTTAGACCTTTGCTTCACAGA
                                ATGGAGAGCTGTGGGGCAATGTCACTGCAAGAGCCCTTCCGCACCCTCCCATGCATTCCA[TC]GAACAAGGGGCAGCTTTTAGACCTTTGCTTCACAGAGG
12883 IS  [TC]                  GGAATCCGACACCAAATTATGA
12906 I             S           GGCCATCCCTGGGCGGCAGGA
12906 P     G       S           ATGACGTGGCAGACCCAGGACCTCCTCCAY
12906 P     A       S           CGCGCCGAGGTCAGGACCTCCTCCAY
12906 T     G       S           CTGGTGGAGGAGGTCCTGGCCTGCCGCCCAGGGATGGCCGG
12906 T     A       S           CTGGTGGAGGAGGTCCTGACCTGCCGCCCAGGGATGGCCGG
                                CTGGGACCTTCCCTTCATGTATGGTCCCAGCGGCATGCGGGCCTGGTGGAGGAGGTCCTG[GA]CCTGCCGCCCAGGGATGGCCGGTCCAGGCGCAGGG
12906 IS  [GA]                  CCGATTGTCCACTTCTGGCCCCTGA
12914 I             A           AAGCCAGTCCCAGTAGCCAGGGACCT
12914 P     G       A           ATGACGTGGCAGACGCTGAGCCTGTCGGY
12914 P     A       A           CGCGCCGAGGACTGAGCCTGTCGGY
12914 T     G       A           CTGCCCGACAGGCTCAGCGGTCCCTGGCTACTGGGACTGGCTTGG
12914 T     A       A           CTGCCCGACAGGCTCAGTGGTCCCTGGCTACTGGGACTGGCTTGG
                                AGGCTCCGCCCTGTCCTGCCCAAGAGTCATCCCCCAAGCCAGTCCCAGTAGCCAGGGACC[GA]CTGAGCCTGTCGGGCAGTGACTGGCACCCACAGACCC
12914 IS  [GA]                  CCCACTCCACAGCCGTCGGCTGT
12917 I             S           CAGCCTCTGGAAGAGCCAGGAATAAGGACGAT
12917 P     C       S           ATGACGTGGCAGACGGCACCGCAGCAY
12917 P     T       S           CGCGCCGAGGAGCACCGCAGCAY
12917 T     C       S           TTTGTGCTGCGGTGCCTCGTCCTTATTCCTGGCTCTTCCAGAGGCTGGT
12917 T     T       S           TTTGTGCTGCGGTGCTTCGTCCTTATTCCTGGCTCTTCCAGAGGCTGGT
                                TGCCCCCAAAGCCCTCTGGGCTGGAAGGCTTGGCAAGGTTTCAGGTTTGTGCTGCGGTGC[CT]TCGTCCTTATTCCTGGCTCTTCCAGAGGCTGGTGGCT
12917 IS  [CT]                  CTTAGGGCTCAGCAGGGCTGCTG
12926 I             S           GCAGGATGCCTGGCAGGGGCTGA
12926 P     G       S           ATGACGTGGCAGACCGTATGCAGCAGGTTGY
12926 P     A       S           CGCGCCGAGGTGTATGCAGCAGGTTGY
12926 T     G       S           CAGCCAACCTGCTGCATACGCAGCCCCTGCCAGGCATCCTGCTA
12926 T     A       S           CAGCCAACCTGCTGCATACACAGCCCCTGCCAGGCATCCTGCTA
                                CACACGCCACCATGTGCCACACCAGCTGCTCCCCAGCCTGCCAGCCAACCTGCTGCATAC[GA]CAGCCCCTGCCAGGCATCCTGCTATGTGCCCGTGAGC
12926 IS  [GA]                  TGCCAGTCCTCCGTGTGCATGCC
12947 I             A           ACTCCCCTCGCCGTAGCGCGAC
12947 P     A       A           CGCGCCGAGGAGAAACGAGACTGAAGAAGAY
12947 P     T       A           ATGACGTGGCAGACTGAAACGAGACTGAAGAAGY
12947 T     A       A           GCTCTCTTCTTCAGTCTCGTTTCTTCGCGCTACGGCGAGGGGAGTCT
12947 T     T       A           GCTCTCTTCTTCAGTCTCGTTTCATCGCGCTACGGCGAGGGGAGTCT
                                AGGTGGGGCCTGGGAAGACTGGGTTGCAACGGTCGCGAGACTCCCCTCGCCGTAGCGCGA[AT]GAAACGAGACTGAAGAAGAGAGCAAGGTGGGAGGGG
12947 IS  [AT]                  CGCGCTGGGGAGCTTCGGCGCATG
12957 I             S           CCGACAGCCGGAAGGAAGAGGGAGCA
12957 P     G       S           ATGACGTGGCAGACCGTTGGGAAGGACACY
12957 P     A       S           CGCGCCGAGGTGTTGGGAAGGACACGY
12957 T     G       S           GGCTCGTGTCCTTCCCAACGGCTCCCTCTTCCTTCCGGCTGTCGGGA
12957 T     A       S           GGCTCGTGTCCTTCCCAACAGCTCCCTCTTCCTTCCGGCTGTCGGGA
                                AAGGTCCTGTCTCCCCAGGGAGGAGGCCCCTGGGACAGTGTGGCTCGTGTCCTTCCCAAC[GA]GCTCCCTCTTCCTTCCGGCTGTCGGGATCCAGGATGA
12957 IS  [GA]                  GGGGATTTTCCGGTGCCAGGCAA
12998 I             S           TGTGATGGTTTAAACACATAACAATGACTGCTGCACTCCAAGA
12998 P     G       S           ATGACGTGGCAGACCTGCTACACTGCGCY
12998 P     A       S           CGCGCCGAGGTTGCTACACTGCGCTY
12998 T     G       S           GCTCAGCGCAGTGTAGCAGCTTGGAGTGCAGCAGTCATTGTTATGTGTTTAAACCATCACATC
12998 T     A       S           GCTCAGCGCAGTGTAGCAACTTGGAGTGCAGCAGTCATTGTTATGTGTTTAAACCATCACATC
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AGER

FIGURE 129E

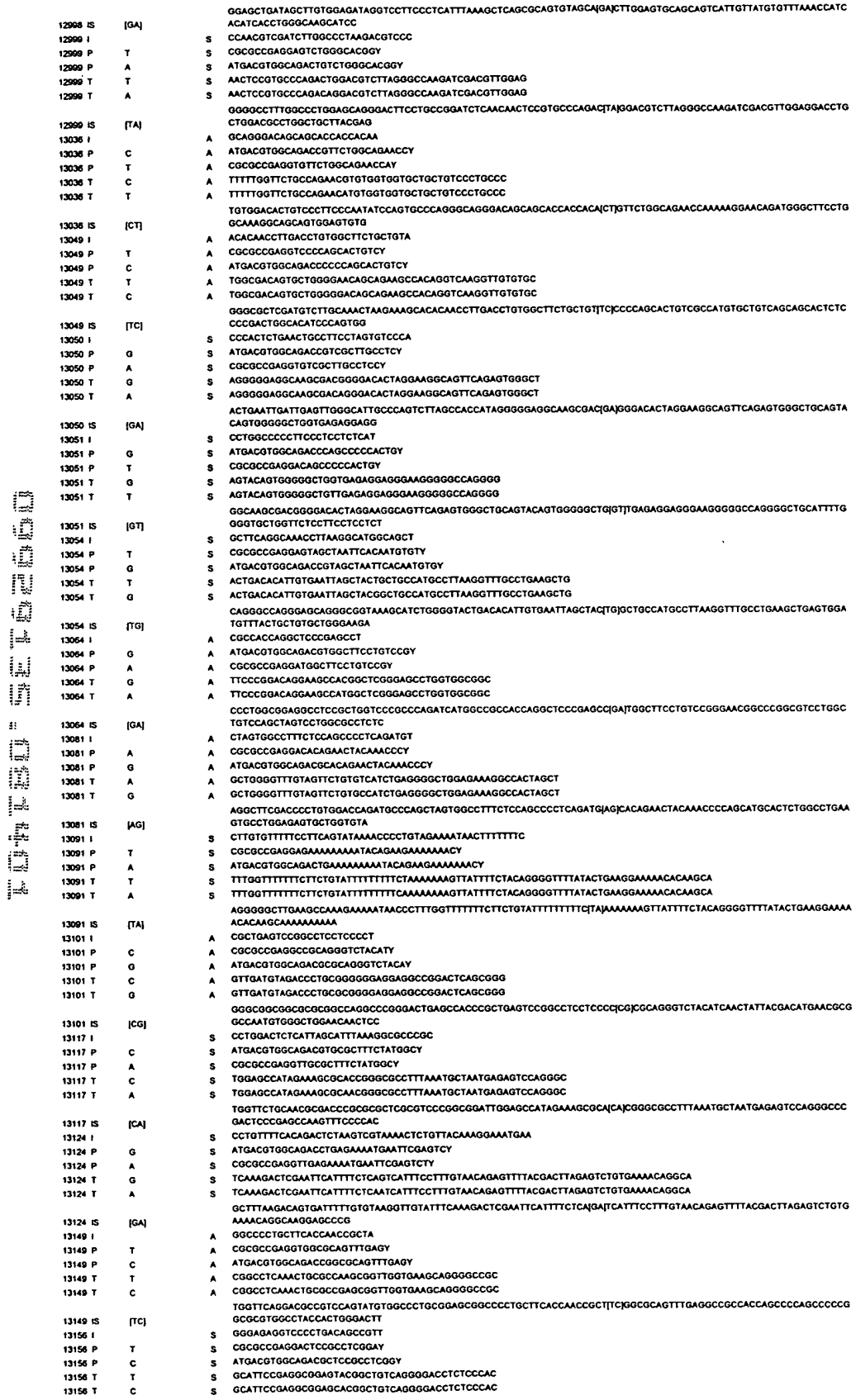
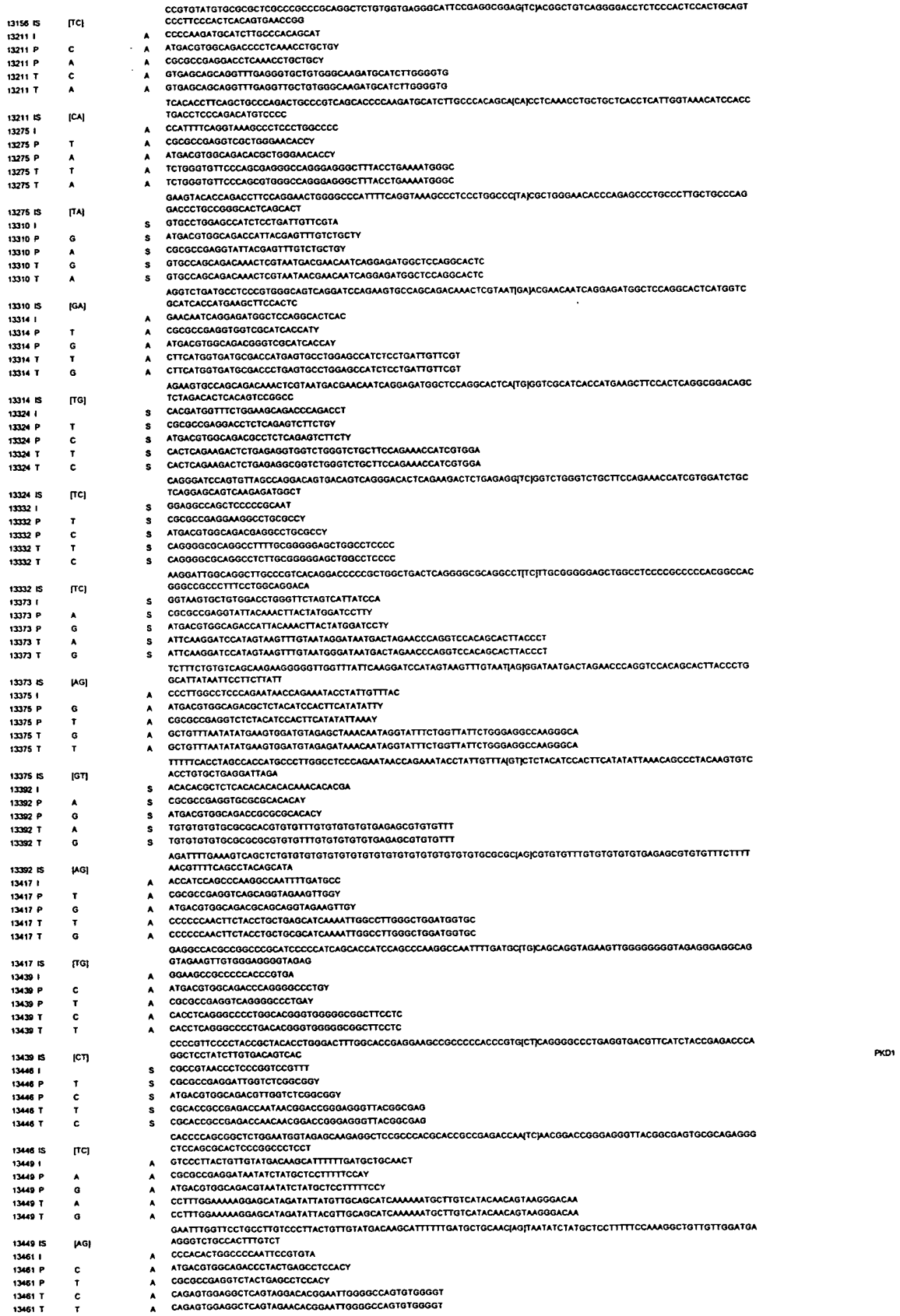

GGAGCTGATAGCTTGTGGAGATAGGTCCTTCCCTCATTTAAAGCTCAGCGCAGTGTAGCA[GA]CTTGGAGTGCAGCAGTCATTGTTATGTGTTTAAACCATC
12998 IS [GA] ACATCACCTGGGCAAGCATCC
12999 I S CCAACGTCGATCTTGGCCCTAAGACGTCCC
12999 P T S CGCGCCGAGGAGTCTGGGCACGGY
12999 P A S ATGACGTGGCAGACTGTCTGGGCACGGY
12999 T T S AACTCCGTGCCCAGACTGGACGTCTTAGGGCCAAGATCGACGTTGGAG
12999 T A S AACTCCGTGCCCAGACAGGACGTCTTAGGGCCAAGATCGACGTTGGAG
GGGGCCTTTGGCCCTGGAGCAGGGACTTCCTGCCGGATCTCAACAACTCCGTGCCCAGAC[TA]GGACGTCTTAGGGCCAAGATCGACGTTGGAGGACCTG
12999 IS [TA] CTGGACGCCTGGCTGCTTACGAG
13036 I A GCAGGGACAGCAGCACCACCACAA
13036 P C A ATGACGTGGCAGACCGTTCTGGCAGAACCY
13036 P T A CGCGCCGAGGTGTTCTGGCAGAACCAY
13036 T C A TTTTTGGTTCTGCCAGAACGTGTGGTGGTGCTGCTGTCCCTGCCC
13036 T T A TTTTTGGTTCTGCCAGAACATGTGGTGGTGCTGCTGTCCCTGCCC
TGTGGACACTGTCCCTTCCCAATATCCAGTGCCCAGGGCAGGGACAGCAGCACCACCACA[CT]GTTCTGGCAGAACCAAAAAGGAACAGATGGGCTTCCTG
13036 IS [CT] GCAAAGGCAGCAGTGGAGTGTG
13049 I A ACACAACCTTGACCTGTGGCTTCTGCTGTA
13049 P T A CGCGCCGAGGTCCCCAGCACTGTCY
13049 P C A ATGACGTGGCAGACCCCCCAGCACTGTCY
13049 T T A TGGCGACAGTGCTGGGGAACAGCAGAAGCCACAGGTCAAGGTTGTGTGC
13049 T C A TGGCGACAGTGCTGGGGGACAGCAGAAGCCACAGGTCAAGGTTGTGTGC
GGGCGCTCGATGTCTTGCAAACTAAGAAAGCACACAACCTTGACCTGTGGCTTCTGCTGT[TC]CCCCAGCACTGTCGCCATGTGCTGTCAGCAGCACTCTC
13049 IS [TC] CCCGACTGGCACATCCCAGTGG
13050 I S CCCACTCTGAACTGCCTTCCTAGTGTCCCA
13050 P G S ATGACGTGGCAGACCGTCGCTTGCCTCY
13050 P A S CGCGCCGAGGTGTCGCTTGCCTCCY
13050 T G S AGGGGGAGGCAAGCGACGGGGACACTAGGAAGGCAGTTCAGAGTGGGCT
13050 T A S AGGGGGAGGCAAGCGACAGGGACACTAGGAAGGCAGTTCAGAGTGGGCT
ACTGAATTGATTGAGTTGGGCATTGCCCAGTCTTAGCCACCATAGGGGGAGGCAAGCGAC[GA]GGGACACTAGGAAGGCAGTTCAGAGTGGGCTGCAGTA
13050 IS [GA] CAGTGGGGGCTGGTGAGAGGAGG
13051 I S CCTGGCCCCCTTCCCTCCTCTCAT
13051 P G S ATGACGTGGCAGACCCAGCCCCCACTGY
13051 P T S CGCGCCGAGGACAGCCCCCACTGY
13051 T G S AGTACAGTGGGGGCTGGTGAGAGGAGGGAAGGGGGCCAGGGG
13051 T T S AGTACAGTGGGGGCTGTTGAGAGGAGGGAAGGGGGCCAGGGG
GGCAAGCGACGGGGACACTAGGAAGGCAGTTCAGAGTGGGCTGCAGTACAGTGGGGGCTG[GT]TGAGAGGAGGGAAGGGGGCCAGGGGCTGCATTTTG
13051 IS [GT] GGGTGCTGGTTCTCCTTCCTCCTCT
13054 I S GCTTCAGGCAAACCTTAAGGCATGGCAGCT
13054 P T S CGCGCCGAGGAGTAGCTAATTCACAATGTGTY
13054 P G S ATGACGTGGCAGACCGTAGCTAATTCACAATGTGY
13054 T T S ACTGACACATTGTGAATTAGCTACTGCTGCCATGCCTTAAGGTTTGCCTGAAGCTG
13054 T G S ACTGACACATTGTGAATTAGCTACGGCTGCCATGCCTTAAGGTTTGCCTGAAGCTG
CAGGGCCAGGGAGCAGGGCGGTAAAGCATCTGGGGTACTGACACATTGTGAATTAGCTAC[TG]GCTGCCATGCCTTAAGGTTTGCCTGAAGCTGAGTGGA
13054 IS [TG] TGTTTACTGCTGTGCTGGGAAGA
13064 I A CGCCACCAGGCTCCCGAGCCT
13064 P G A ATGACGTGGCAGACGTGGCTTCCTGTCCGY
13064 P A A CGCGCCGAGGATGGCTTCCTGTCCGY
13064 T G A TTCCCGGACAGGAAGCCACGGCTCGGGAGCCTGGTGGCGGC
13064 T A A TTCCCGGACAGGAAGCCATGGCTCGGGAGCCTGGTGGCGGC
CCCTGGCGGAGGCCTCCGCTGGTCCCGCCCAGATCATGGCCGCCACCAGGCTCCCGAGCC[GA]TGGCTTCCTGTCCGGGAACGGCCCGGCGTCCTGGC
13064 IS [GA] TGTCCAGCTAGTCCTGGCGCCTCTC
13081 I A CTAGTGGCCTTTCTCCAGCCCCTCAGATGT
13081 P A A CGCGCCGAGGACACAGAACTACAAACCCY
13081 P G A ATGACGTGGCAGACGCACAGAACTACAAACCCY
13081 T A A GCTGGGGTTTGTAGTTCTGTGTCATCTGAGGGGCTGGAGAAAGGCCACTAGCT
13081 T G A GCTGGGGTTTGTAGTTCTGTGCCATCTGAGGGGCTGGAGAAAGGCCACTAGCT
AGGCTTCGACCCCTGTGGACCAGATGCCCAGCTAGTGGCCTTTCTCCAGCCCCTCAGATG[AG]CACAGAACTACAAACCCCAGCATGCACTCTGGCCTGAA
13081 IS [AG] GTGCCTGGAGAGTGCTGGTGTA
13091 I S CTTGTGTTTTTCCTTCAGTATAAAACCCCTGTAGAAAATAACTTTTTTTC
13091 P T S CGCGCCGAGGAGAAAAAAAAATACAGAAGAAAAAAACY
13091 P A S ATGACGTGGCAGACTGAAAAAAAAATACAGAAGAAAAAAACY
13091 T T S TTTGGTTTTTTTCTTCTGTATTTTTTTTTCTAAAAAAAGTTATTTTCTACAGGGGTTTTATACTGAAGGAAAAACACAAGCA
13091 T A S TTTGGTTTTTTTCTTCTGTATTTTTTTTTCAAAAAAAGTTATTTTCTACAGGGGTTTTATACTGAAGGAAAAACACAAGCA
AGGGGGCTTGAAGCCAAAGAAAAATAACCCTTTGGTTTTTTTCTTCTGTATTTTTTTTTC[TA]AAAAAAAGTTATTTTCTACAGGGGTTTTATACTGAAGGAAAA
13091 IS [TA] ACACAAGCAAAAAAAAAA
13101 I A CGCTGAGTCCGGCCTCCTCCCCT
13101 P C A CGCGCCGAGGCCGCAGGGTCTACATY
13101 P G A ATGACGTGGCAGACGCGCAGGGTCTACAY
13101 T C A GTTGATGTAGACCCTGCGGGGGGAGGAGGCCGGACTCAGCGGG
13101 T G A GTTGATGTAGACCCTGCGCGGGGAGGAGGCCGGACTCAGCGGG
GGGCGGCGGCGCGCGGCCAGGCCCGGGACTGAGCCACCCGCTGAGTCCGGCCTCCTCCCC[CG]CGCAGGGTCTACATCAACTATTACGACATGAACGCG
13101 IS [CG] GCCAATGTGGGCTGGAACAACTCC
13117 I S CCTGGACTCTCATTAGCATTTAAAGGCGCCCGC
13117 P C S ATGACGTGGCAGACGTGCGCTTTCTATGGCY
13117 P A S CGCGCCGAGGTTGCGCTTTCTATGGCY
13117 T C S TGGAGCCATAGAAAGCGCACCGGGCGCCTTTAAATGCTAATGAGAGTCCAGGGC
13117 T A S TGGAGCCATAGAAAGCGCAACGGGCGCCTTTAAATGCTAATGAGAGTCCAGGGC
TGGTTCTGCAACGCGACCCGCGCGCTCGCGTCCCGGCGGATTGGAGCCATAGAAAGCGCA[CA]CGGGCGCCTTTAAATGCTAATGAGAGTCCAGGGCCC
13117 IS [CA] GACTCCCGAGCCAAGTTTCCCCAC
13124 I S CCTGTTTTCACAGACTCTAAGTCGTAAAACTCTGTTACAAAGGAAATGAA
13124 P G S ATGACGTGGCAGACCTGAGAAAATGAATTCGAGTCY
13124 P A S CGCGCCGAGGTTGAGAAAATGAATTCGAGTCTY
13124 T G S TCAAAGACTCGAATTCATTTTCTCAGTCATTTCCTTTGTAACAGAGTTTTACGACTTAGAGTCTGTGAAAACAGGCA
13124 T A S TCAAAGACTCGAATTCATTTTCTCAATCATTTCCTTTGTAACAGAGTTTTACGACTTAGAGTCTGTGAAAACAGGCA
GCTTTAAGACAGTGATTTTTGTGTAAGGTTGTATTTCAAAGACTCGAATTCATTTTCTCA[GA]TCATTTCCTTTGTAACAGAGTTTTACGACTTAGAGTCTGTG
13124 IS [GA] AAAACAGGCAAGGAGCCCG
13149 I A GGCCCCTGCTTCACCAACCGCTA
13149 P T A CGCGCCGAGGTGGCGCAGTTTGAGY
13149 P C A ATGACGTGGCAGACCGGCGCAGTTTGAGY
13149 T T A CGGCCTCAAACTGCGCCAAGCGGTTGGTGAAGCAGGGGCCGC
13149 T C A CGGCCTCAAACTGCGCCGAGCGGTTGGTGAAGCAGGGGCCGC
TGGTTCAGGACGCCGTCCAGTATGTGGCCCTGCGGAGCGGCCCCTGCTTCACCAACCGCT[TC]GGCGCAGTTTGAGGCCGCCACCAGCCCCAGCCCCCG
13149 IS [TC] GCGCGTGGCCTACCACTGGGACTT
13156 I S GGGAGAGGTCCCCTGACAGCCGTT
13156 P T S CGCGCCGAGGACTCCGCCTCGGAY
13156 P C S ATGACGTGGCAGACGCTCCGCCTCGGY
13156 T T S GCATTCCGAGGCGGAGTACGGCTGTCAGGGGACCTCTCCCAC
13156 T C S GCATTCCGAGGCGGAGCACGGCTGTCAGGGGACCTCTCCCAC

FIGURE 129E



PKD1

FIGURE 129E

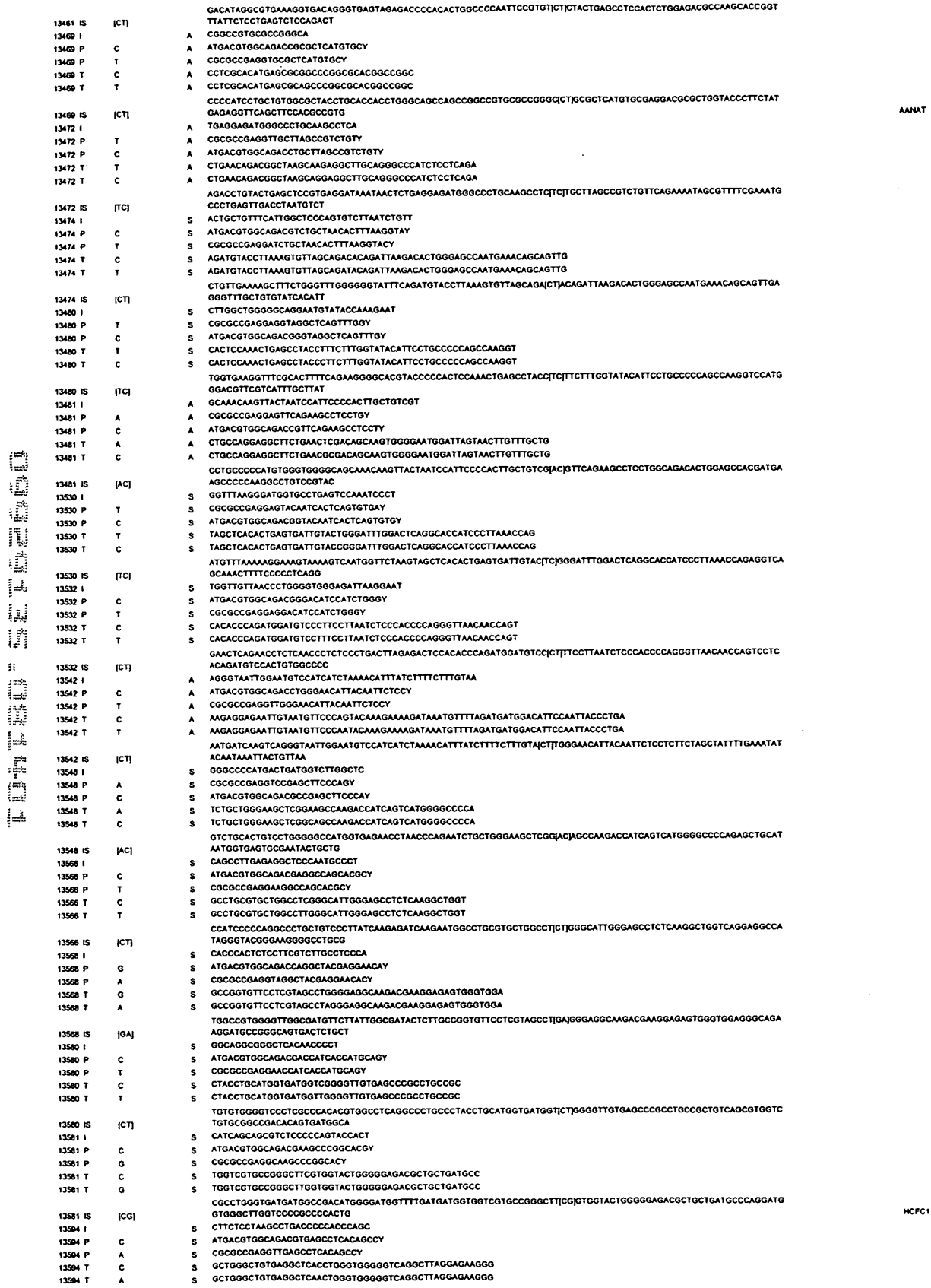

GACATAGGCGTGAAAGGTGACAGGGTGAGTAGAGACCCCACACTGGCCCCAATTCCGTGT[CT]CTACTGAGCCTCCACTCTGGAGACGCCAAGCACCGGT
13461 IS [CT] TTATTCTCCTGAGTCTCCAGACT
13469 I A CGGCCGTGCGCCGGGCA
13469 P C A ATGACGTGGCAGACCGCGCTCATGTGCY
13469 P T A CGCGCCGAGGTGCGCTCATGTGCY
13469 T C A CCTCGCACATGAGCGCGGCCCGGCGCACGGCCGGC
13469 T T A CCTCGCACATGAGCGCAGCCCGGCGCACGGCCGGC
CCCCATCCTGCTGTGGCGCTACCTGCACCACCTGGGCAGCCAGCCGGCCGTGCGCCGGGC[CT]GCGCTCATGTGCGAGGACGCGCTGGTACCCTTCTAT
13469 IS [CT] GAGAGGTTCAGCTTCCACGCCGTG AANAT
13472 I A TGAGGAGATGGGCCCTGCAAGCCTCA
13472 P T A CGCGCCGAGGTTGCTTAGCCGTCTGTY
13472 P C A ATGACGTGGCAGACCTGCTTAGCCGTCTGTY
13472 T T A CTGAACAGACGGCTAAGCAAGAGGCTTGCAGGGCCCATCTCCTCAGA
13472 T C A CTGAACAGACGGCTAAGCAGGAGGCTTGCAGGGCCCATCTCCTCAGA
AGACCTGTACTGAGCTCCGTGAGGATAAATAACTCTGAGGAGATGGGCCCTGCAAGCCTC[TC]TGCTTAGCCGTCTGTTCAGAAAATAGCGTTTTCGAAATG
13472 IS [TC] CCCTGAGTTGACCTAATGTCT
13474 I S ACTGCTGTTTCATTGGCTCCCAGTGTCTTAATCTGTT
13474 P C S ATGACGTGGCAGACGTCTGCTAACACTTTAAGGTAY
13474 P T S CGCGCCGAGGATCTGCTAACACTTTAAGGTACY
13474 T C S AGATGTACCTTAAAGTGTTAGCAGACACAGATTAAGACACTGGGAGCCAATGAAACAGCAGTTG
13474 T T S AGATGTACCTTAAAGTGTTAGCAGATACAGATTAAGACACTGGGAGCCAATGAAACAGCAGTTG
CTGTTGAAAAGCTTTCTGGGTTTGGGGGGTATTTCAGATGTACCTTAAAGTGTTAGCAGA[CT]ACAGATTAAGACACTGGGAGCCAATGAAACAGCAGTTGA
13474 IS [CT] GGGTTTGCTGTGTATCACATT
13480 I S CTTGGCTGGGGGCAGGAATGTATACCAAAGAAT
13480 P T S CGCGCCGAGGAGGTAGGCTCAGTTTGGY
13480 P C S ATGACGTGGCAGACGGGTAGGCTCAGTTTGY
13480 T T S CACTCCAAACTGAGCCTACCTTTCTTTGGTATACATTCCTGCCCCCAGCCAAGGT
13480 T C S CACTCCAAACTGAGCCTACCCTTCTTTGGTATACATTCCTGCCCCCAGCCAAGGT
TGGTGAAGGTTTCGCACTTTTCAGAAGGGGCACGTACCCCCACTCCAAACTGAGCCTACG[TC]TTCTTTGGTATACATTCCTGCCCCCAGCCAAGGTCCATG
13480 IS [TC] GGACGTTCGTCATTTGCTTAT
13481 I A GCAAACAAGTTACTAATCCATTCCCCACTTGCTGTCGT
13481 P A A CGCGCCGAGGAGTTCAGAAGCCTCCTGY
13481 P C A ATGACGTGGCAGACCGTTCAGAAGCCTCCTY
13481 T A A CTGCCAGGAGGCTTCTGAACTCGACAGCAAGTGGGGAATGGATTAGTAACTTGTTTGCTG
13481 T C A CTGCCAGGAGGCTTCTGAACGCGACAGCAAGTGGGGAATGGATTAGTAACTTGTTTGCTG
CCTGCCCCCATGTGGGTGGGGCAGCAAACAAGTTACTAATCCATTCCCCACTTGCTGTCG[AC]GTTCAGAAGCCTCCTGGCAGACACTGGAGCCACGATGA
13481 IS [AC] AGCCCCCAAGGCCTGTCCGTAC
13530 I S GGTTTAAGGGATGGTGCCTGAGTCCAAATCCCT
13530 P T S CGCGCCGAGGAGTACAATCACTCAGTGTGAY
13530 P C S ATGACGTGGCAGACGGTACAATCACTCAGTGTGY
13530 T T S TAGCTCACACTGAGTGATTGTACTGGGATTTGGACTCAGGCACCATCCCTTAAACCAG
13530 T C S TAGCTCACACTGAGTGATTGTACCGGGATTTGGACTCAGGCACCATCCCTTAAACCAG
ATGTTTAAAAAGGAAAGTAAAAGTCAATGGTTCTAAGTAGCTCACACTGAGTGATTGTAC[TC]GGGATTTGGACTCAGGCACCATCCCTTAAACCAGAGGTCA
13530 IS [TC] GCAAACTTTTCCCCCTCAGG
13532 I S TGGTTGTTAACCCTGGGGTGGGAGATTAAGGAAT
13532 P C S ATGACGTGGCAGACGGGACATCCATCTGGGY
13532 P T S CGCGCCGAGGAGGACATCCATCTGGGY
13532 T C S CACACCCAGATGGATGTCCCTTCCTTAATCTCCCACCCCAGGGTTAACAACCAGT
13532 T T S CACACCCAGATGGATGTCCTTTCCTTAATCTCCCACCCCAGGGTTAACAACCAGT
GAACTCAGAACCTCTCAACCCTCTCCCTGACTTAGAGACTCCACACCCAGATGGATGTCC[CT]TTCCTTAATCTCCCACCCCAGGGTTAACAACCAGTCCTC
13532 IS [CT] ACAGATGTCCACTGTGGCCCC
13542 I A AGGGTAATTGGAATGTCCATCATCTAAAACATTTATCTTTTCTTTGTAA
13542 P C A ATGACGTGGCAGACCTGGGAACATTACAATTCTCCY
13542 P T A CGCGCCGAGGTTGGGAACATTACAATTCTCCY
13542 T C A AAGAGGAGAATTGTAATGTTCCCAGTACAAAGAAAAGATAAATGTTTTAGATGATGGACATTCCAATTACCCTGA
13542 T T A AAGAGGAGAATTGTAATGTTCCCAATACAAAGAAAAGATAAATGTTTTAGATGATGGACATTCCAATTACCCTGA
AATGATCAAGTCAGGGTAATTGGAATGTCCATCATCTAAAACATTTATCTTTTCTTTGTA[CT]TGGGAACATTACAATTCTCCTCTTCTAGCTATTTTGAAATAT
13542 IS [CT] ACAATAAATTACTGTTAA
13548 I S GGGCCCCATGACTGATGGTCTTGGCTC
13548 P A S CGCGCCGAGGTCCGAGCTTCCCAGY
13548 P C S ATGACGTGGCAGACGCCGAGCTTCCCAY
13548 T A S TCTGCTGGGAAGCTCGGAAGCCAAGACCATCAGTCATGGGGCCCCA
13548 T C S TCTGCTGGGAAGCTCGGCAGCCAAGACCATCAGTCATGGGGCCCCA
GTCTGCACTGTCCTGGGGGCCATGGTGAGAACCTAACCCAGAATCTGCTGGGAAGCTCGG[AC]AGCCAAGACCATCAGTCATGGGGCCCCAGAGCTGCAT
13548 IS [AC] AATGGTGAGTGCGAATACTGCTG
13566 I S CAGCCTTGAGAGGCTCCCAATGCCCT
13566 P C S ATGACGTGGCAGACGAGGCCAGCACGCY
13566 P T S CGCGCCGAGGAAGGCCAGCACGCY
13566 T C S GCCTGCGTGCTGGCCTCGGGCATTGGGAGCCTCTCAAGGCTGGT
13566 T T S GCCTGCGTGCTGGCCTTGGGCATTGGGAGCCTCTCAAGGCTGGT
CCATCCCCCAGGCCCTGCTGTCCCTTATCAAGAGATCAAGAATGGCCTGCGTGCTGGCCT[CT]GGGCATTGGGAGCCTCTCAAGGCTGGTCAGGAGGCCA
13566 IS [CT] TAGGGTACGGGAAGGGGCCTGCG
13568 I S CACCCACTCTCCTTCGTCTTGCCTCCCA
13568 P G S ATGACGTGGCAGACCAGGCTACGAGGAACAY
13568 P A S CGCGCCGAGGTAGGCTACGAGGAACACY
13568 T G S GCCGGTGTTCCTCGTAGCCTGGGGAGGCAAGACGAAGGAGAGTGGGTGGA
13568 T A S GCCGGTGTTCCTCGTAGCCTAGGGAGGCAAGACGAAGGAGAGTGGGTGGA
TGGCCGTGGGGTTGGCGATGTTCTTATTGGCGATACTCTTGCCGGTGTTCCTCGTAGCCT[GA]GGGAGGCAAGACGAAGGAGAGTGGGTGGAGGGCAGA
13568 IS [GA] AGGATGCCGGGCAGTGACTCTGCT
13580 I S GGCAGGCGGGCTCACAACCCCT
13580 P C S ATGACGTGGCAGACGACCATCACCATGCAGY
13580 P T S CGCGCCGAGGAACCATCACCATGCAGY
13580 T C S CTACCTGCATGGTGATGGTCGGGGTTGTGAGCCCGCCTGCCGC
13580 T T S CTACCTGCATGGTGATGGTTGGGGTTGTGAGCCCGCCTGCCGC
TGTGTGGGGTCCCTCGCCCACACGTGGCCTCAGGCCCTGCCCTACCTGCATGGTGATGGT[CT]GGGGTTGTGAGCCCGCCTGCCGCTGTCAGCGTGGTC
13580 IS [CT] TGTGCGGCCGACACAGTGATGGCA
13581 I S CATCAGCAGCGTCTCCCCCAGTACCACT
13581 P C S ATGACGTGGCAGACGAAGCCCGGCACGY
13581 P G S CGCGCCGAGGCAAGCCCGGCACY
13581 T C S TGGTCGTGCCGGGCTTCGTGGTACTGGGGGAGACGCTGCTGATGCC
13581 T G S TGGTCGTGCCGGGCTTGGTGGTACTGGGGGAGACGCTGCTGATGCC
CGCCTGGGTGATGATGGCCGACATGGGGATGGTTTTGATGATGGTGGTCGTGCCGGGCTT[CG]GTGGTACTGGGGGAGACGCTGCTGATGCCCAGGATG
13581 IS [CG] GTGGGCTTGGTCCCCGCCCCACTG HCFC1
13594 I S CTTCTCCTAAGCCTGACCCCCACCCAGC
13594 P C S ATGACGTGGCAGACGTGAGCCTCACAGCCY
13594 P A S CGCGCCGAGGTTGAGCCTCACAGCCY
13594 T C S GCTGGGCTGTGAGGCTCACCTGGGTGGGGGTCAGGCTTAGGAGAAGGG
13594 T A S GCTGGGCTGTGAGGCTCAACTGGGTGGGGGTCAGGCTTAGGAGAAGGG

FIGURE 129E

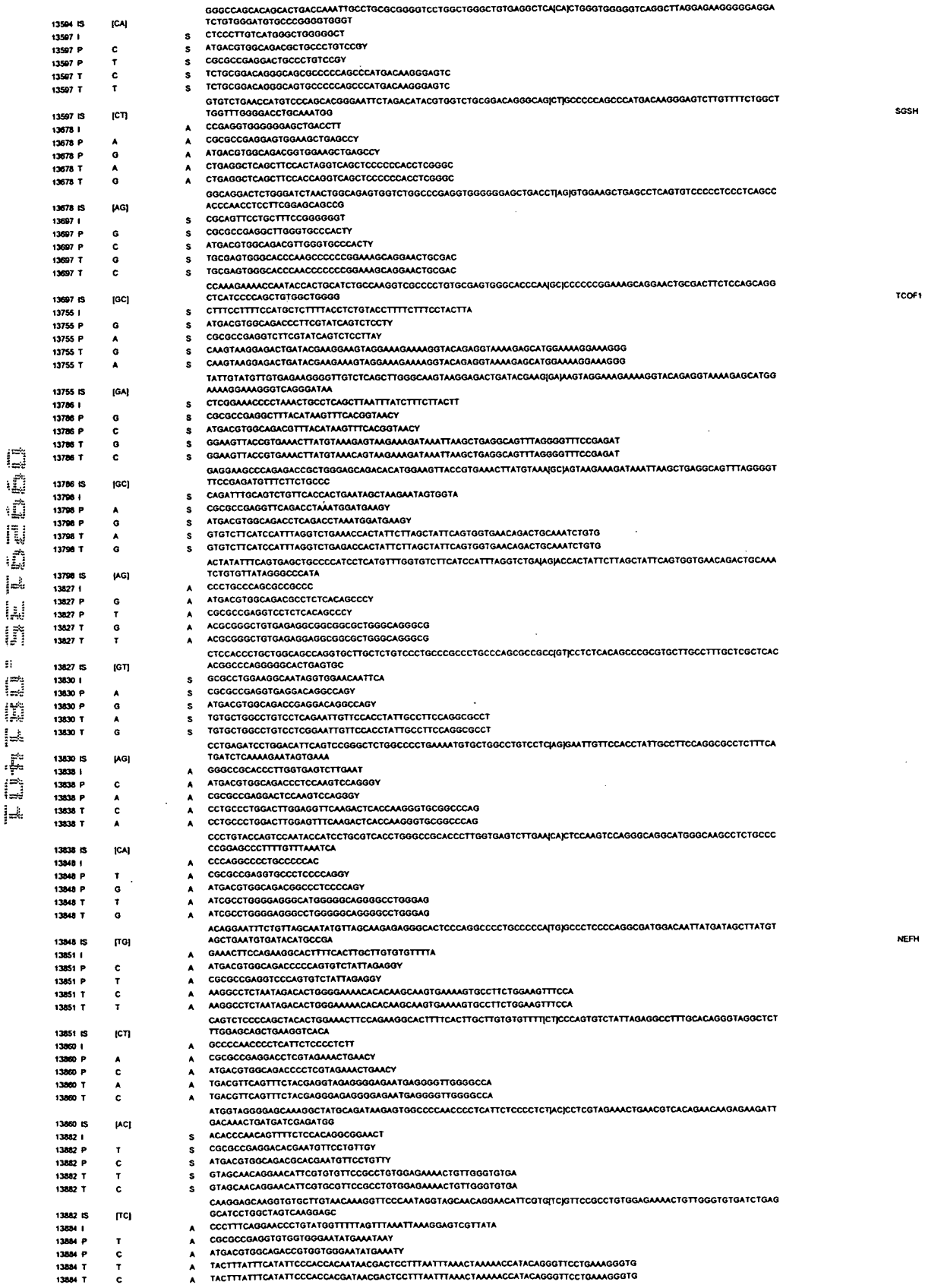

GGGCCAGCACAGCACTGACCAAATTGCCTGCGCGGGGTCCTGGCTGGGCTGTGAGGCTC[CA]CTGGGTGGGGGTCAGGCTTAGGAGAAGGGGGAGGA
13594 IS [CA] TCTGTGGGATGTGCCCGGGGTGGGT
13597 I S CTCCCTTGTCATGGGCTGGGGGCT
13597 P C S ATGACGTGGCAGACGCTGCCCTGTCCGY
13597 P T S CGCGCCGAGGACTGCCCTGTCCGY
13597 T C S TCTGCGGACAGGGCAGCGCCCCCAGCCCATGACAAGGGAGTC
13597 T T S TCTGCGGACAGGGCAGTGCCCCCAGCCCATGACAAGGGAGTC
GTGTCTGAACCATGTCCCAGCACGGGAATTCTAGACATACGTGGTCTGCGGACAGGGCAG[CT]GCCCCCAGCCCATGACAAGGGAGTCTTGTTTTCTGGCT
13597 IS [CT] TGGTTTGGGGACCTGCAAATGG SGSH
13678 I A CCGAGGTGGGGGGAGCTGACCTT
13678 P A A CGCGCCGAGGAGTGGAAGCTGAGCCY
13678 P G A ATGACGTGGCAGACGGTGGAAGCTGAGCCY
13678 T A A CTGAGGCTCAGCTTCCACTAGGTCAGCTCCCCCCACCTCGGGC
13678 T G A CTGAGGCTCAGCTTCCACCAGGTCAGCTCCCCCCACCTCGGGC
GGCAGGACTCTGGGATCTAACTGGCAGAGTGGTCTGGCCCGAGGTGGGGGGAGCTGACCT[AG]GTGGAAGCTGAGCCTCAGTGTCCCCCTCCCTCAGCC
13678 IS [AG] ACCCAACCTCCTTCGGAGCAGCCG
13697 I S CGCAGTTCCTGCTTTCCGGGGGGT
13697 P G S CGCGCCGAGGCTTGGGTGCCCACTY
13697 P C S ATGACGTGGCAGACGTTGGGTGCCCACTY
13697 T G S TGCGAGTGGGCACCCAAGCCCCCCGGAAAGCAGGAACTGCGAC
13697 T C S TGCGAGTGGGCACCCAACCCCCCCGGAAAGCAGGAACTGCGAC
CCAAAGAAAACCAATACCACTGCATCTGCCAAGGTCGCCCCTGTGCGAGTGGGCACCCAA[GC]CCCCCCGGAAAGCAGGAACTGCGACTTCTCCAGCAGG
13697 IS [GC] CTCATCCCCAGCTGTGGCTGGGG TCOF1
13755 I S CTTTCCTTTTCCATGCTCTTTTACCTCTGTACCTTTTCTTTCCTACTTA
13755 P G S ATGACGTGGCAGACCCTTCGTATCAGTCTCCTY
13755 P A S CGCGCCGAGGTCTTCGTATCAGTCTCCTTAY
13755 T G S CAAGTAAGGAGACTGATACGAAGGAAGTAGGAAAGAAAAGGTACAGAGGTAAAAGAGCATGGAAAAGGAAAGGG
13755 T A S CAAGTAAGGAGACTGATACGAAGAAAGTAGGAAAGAAAAGGTACAGAGGTAAAAGAGCATGGAAAAGGAAAGGG
TATTGTATGTTGTGAGAAGGGGTTGTCTCAGCTTGGGCAAGTAAGGAGACTGATACGAAG[GA]AAGTAGGAAAGAAAAGGTACAGAGGTAAAAGAGCATGG
13755 IS [GA] AAAAGGAAAGGGTCAGGGATAA
13786 I S CTCGGAAACCCCTAAACTGCCTCAGCTTAATTTATCTTTCTTACTT
13786 P G S CGCGCCGAGGCTTTACATAAGTTTCACGGTAACY
13786 P C S ATGACGTGGCAGACGTTTACATAAGTTTCACGGTAACY
13786 T G S GGAAGTTACCGTGAAACTTATGTAAAGAGTAAGAAAGATAAATTAAGCTGAGGCAGTTTAGGGGTTTCCGAGAT
13786 T C S GGAAGTTACCGTGAAACTTATGTAAACAGTAAGAAAGATAAATTAAGCTGAGGCAGTTTAGGGGTTTCCGAGAT
GAGGAAGCCCAGAGACCGCTGGGAGCAGACACATGGAAGTTACCGTGAAACTTATGTAAA[GC]AGTAAGAAAGATAAATTAAGCTGAGGCAGTTTAGGGGT
13786 IS [GC] TTCCGAGATGTTTCTTCTGCCC
13798 I S CAGATTTGCAGTCTGTTCACCACTGAATAGCTAAGAATAGTGGTA
13798 P A S CGCGCCGAGGTTCAGACCTAAATGGATGAAGY
13798 P G S ATGACGTGGCAGACCTCAGACCTAAATGGATGAAGY
13798 T A S GTGTCTTCATCCATTTAGGTCTGAAACCACTATTCTTAGCTATTCAGTGGTGAACAGACTGCAAATCTGTG
13798 T G S GTGTCTTCATCCATTTAGGTCTGAGACCACTATTCTTAGCTATTCAGTGGTGAACAGACTGCAAATCTGTG
ACTATATTTCAGTGAGCTGCCCCATCCTCATGTTTGGTGTCTTCATCCATTTAGGTCTGA[AG]ACCACTATTCTTAGCTATTCAGTGGTGAACAGACTGCAAA
13798 IS [AG] TCTGTGTTATAGGGCCCATA
13827 I A CCCTGCCCAGCGCCGCCC
13827 P G A ATGACGTGGCAGACGCCTCTCACAGCCCY
13827 P T A CGCGCCGAGGTCCTCTCACAGCCCY
13827 T G A ACGCGGGCTGTGAGAGGCGGCGGCGCTGGGCAGGGCG
13827 T T A ACGCGGGCTGTGAGAGGAGGCGGCGCTGGGCAGGGCG
CTCCACCCTGCTGGCAGCCAGGTGCTTGCTCTGTCCCTGCCCGCCCTGCCCAGCGCCGCC[GT]CCTCTCACAGCCCGCGTGCTTGCCTTTGCTCGCTCAC
13827 IS [GT] ACGGCCCAGGGGGCACTGAGTGC
13830 I S GCGCCTGGAAGGCAATAGGTGGAACAATTCA
13830 P A S CGCGCCGAGGTGAGGACAGGCCAGY
13830 P G S ATGACGTGGCAGACCGAGGACAGGCCAGY
13830 T A S TGTGCTGGCCTGTCCTCAGAATTGTTCCACCTATTGCCTTCCAGGCGCCT
13830 T G S TGTGCTGGCCTGTCCTCGGAATTGTTCCACCTATTGCCTTCCAGGCGCCT
CCTGAGATCCTGGACATTCAGTCCGGGCTCTGGCCCCTGAAAATGTGCTGGCCTGTCCTC[AG]GAATTGTTCCACCTATTGCCTTCCAGGCGCCTCTTTCA
13830 IS [AG] TGATCTCAAAAGAATAGTGAAA
13838 I A GGGCCGCACCCTTGGTGAGTCTTGAAT
13838 P C A ATGACGTGGCAGACCCTCCAAGTCCAGGGY
13838 P A A CGCGCCGAGGACTCCAAGTCCAGGGY
13838 T C A CCTGCCCTGGACTTGGAGGTTCAAGACTCACCAAGGGTGCGGCCCAG
13838 T A A CCTGCCCTGGACTTGGAGTTTCAAGACTCACCAAGGGTGCGGCCCAG
CCCTGTACCAGTCCAATACCATCCTGCGTCACCTGGGCCGCACCCTTGGTGAGTCTTGAA[CA]CTCCAAGTCCAGGGCAGGCATGGGCAAGCCTCTGCCC
13838 IS [CA] CCGGAGCCCTTTTGTTTAAATCA
13848 I A CCCAGGCCCCTGCCCCCAC
13848 P T A CGCGCCGAGGTGCCCTCCCCAGGY
13848 P G A ATGACGTGGCAGACGGCCCTCCCCAGY
13848 T T A ATCGCCTGGGGAGGGCATGGGGGCAGGGGCCTGGGAG
13848 T G A ATCGCCTGGGGAGGGCCTGGGGGCAGGGGCCTGGGAG
ACAGGAATTTCTGTTAGCAATATGTTAGCAAGAGAGGGCACTCCCAGGCCCCTGCCCCCA[TG]GCCCTCCCCAGGCGATGGACAATTATGATAGCTTATGT
13848 IS [TG] AGCTGAATGTGATACATGCCGA NEFH
13851 I A GAAACTTCCAGAAGGCACTTTTCACTTGCTTGTGTGTTTTA
13851 P C A ATGACGTGGCAGACCCCCAGTGTCTATTAGAGGY
13851 P T A CGCGCCGAGGTCCCAGTGTCTATTAGAGGY
13851 T C A AAGGCCTCTAATAGACACTGGGGAAAACACACAAGCAAGTGAAAAGTGCCTTCTGGAAGTTTCCA
13851 T T A AAGGCCTCTAATAGACACTGGGAAAAACACACAAGCAAGTGAAAAGTGCCTTCTGGAAGTTTCCA
CAGTCTCCCCAGCTACACTGGAAACTTCCAGAAGGCACTTTTCACTTGCTTGTGTGTTTT[CT]CCCAGTGTCTATTAGAGGCCTTTGCACAGGGTAGGCTCT
13851 IS [CT] TTGGAGCAGCTGAAGGTCACA
13860 I A GCCCCAACCCCTCATTCTCCCCTCTT
13860 P A A CGCGCCGAGGACCTCGTAGAAACTGAACY
13860 P C A ATGACGTGGCAGACCCCTCGTAGAAACTGAACY
13860 T A A TGACGTTCAGTTTCTACGAGGTAGAGGGGAGAATGAGGGGTTGGGGCCA
13860 T C A TGACGTTCAGTTTCTACGAGGGAGAGGGGAGAATGAGGGGTTGGGGCCA
ATGGTAGGGGAGCAAAGGCTATGCAGATAAGAGTGGCCCCAACCCCTCATTCTCCCCTCT[AC]CCTCGTAGAAACTGAACGTCACAGAACAAGAGAAGATT
13860 IS [AC] GACAAACTGATGATCGAGATGG
13882 I S ACACCCAACAGTTTTCTCCACAGGCGGAACT
13882 P T S CGCGCCGAGGACACGAATGTTCCTGTTGY
13882 P C S ATGACGTGGCAGACGCACGAATGTTCCTGTTY
13882 T T S GTAGCAACAGGAACATTCGTGTGTTCCGCCTGTGGAGAAAACTGTTGGGTGTGA
13882 T C S GTAGCAACAGGAACATTCGTGCGTTCCGCCTGTGGAGAAAACTGTTGGGTGTGA
CAAGGAGCAAGGTGTGCTTGTAACAAAGGTTCCCAATAGGTAGCAACAGGAACATTCGTG[TC]GTTCCGCCTGTGGAGAAAACTGTTGGGTGTGATCTGAG
13882 IS [TC] GCATCCTGGCTAGTCAAGGAGC
13884 I A CCCTTTCAGGAACCCTGTATGGTTTTTAGTTTAAATTAAAGGAGTCGTTATA
13884 P T A CGCGCCGAGGTGTGGTGGGAATATGAAATAAY
13884 P C A ATGACGTGGCAGACCGTGGTGGGAATATGAAATY
13884 T T A TACTTTATTTCATATTCCCACCACAATAACGACTCCTTTAATTTAAACTAAAAACCATACAGGGTTCCTGAAAGGGTG
13884 T C A TACTTTATTTCATATTCCCACCACGATAACGACTCCTTTAATTTAAACTAAAAACCATACAGGGTTCCTGAAAGGGTG

FIGURE 129E

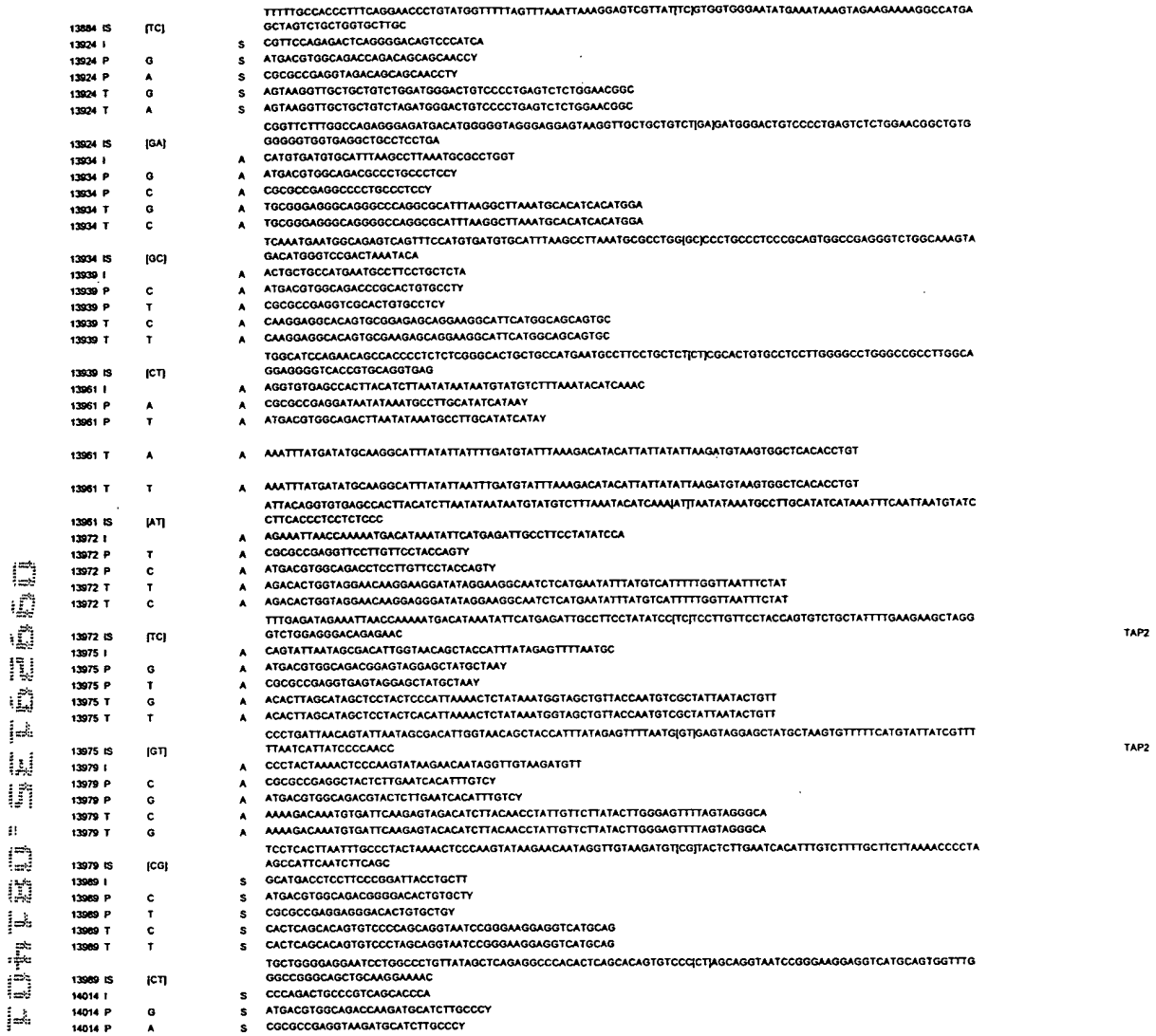

TTTTTGCCACCCTTTCAGGAACCCTGTATGGTTTTTAGTTTAAATTAAAGGAGTCGTTATTCGTGGTGGGAATATGAAATAAAGTAGAAGAAAAGGCCATGA
13884 IS [TC] GCTAGTCTGCTGGTGCTTGC
13924 I S CGTTCCAGAGACTCAGGGGACAGTCCCATCA
13924 P G S ATGACGTGGCAGACCAGACAGCAGCAACCY
13924 P A S CGCGCCGAGGTAGACAGCAGCAACCTY
13924 T G S AGTAAGGTTGCTGCTGTCTGGATGGGACTGTCCCCTGAGTCTCTGGAACGGC
13924 T A S AGTAAGGTTGCTGCTGTCTAGATGGGACTGTCCCCTGAGTCTCTGGAACGGC
CGGTTCTTTGGCCAGAGGGAGATGACATGGGGGTAGGGAGGAGTAAGGTTGCTGCTGTCTGAGATGGGACTGTCCCCTGAGTCTCTGGAACGGCTGTG
13924 IS [GA] GGGGGTGGTGAGGCTGCCTCCTGA
13934 I A CATGTGATGTGCATTTAAGCCTTAAATGCGCCTGGT
13934 P G A ATGACGTGGCAGACGCCCTGCCCTCCY
13934 P C A CGCGCCGAGGCCCCTGCCCTCCY
13934 T G A TGCGGGAGGGCAGGGCCCAGGCGCATTTAAGGCTTAAATGCACATCACATGGA
13934 T C A TGCGGGAGGGCAGGGGCCAGGCGCATTTAAGGCTTAAATGCACATCACATGGA
TCAAATGAATGGCAGAGTCAGTTTCCATGTGATGTGCATTTAAGCCTTAAATGCGCCTGG[GC]CCCTGCCCTCCCGCAGTGGCCGAGGGTCTGGCAAAGTA
13934 IS [GC] GACATGGGTCCGACTAAATACA
13939 I A ACTGCTGCCATGAATGCCTTCCTGCTCTA
13939 P C A ATGACGTGGCAGACCCGCACTGTGCCTY
13939 P T A CGCGCCGAGGTCGCACTGTGCCTCY
13939 T C A CAAGGAGGCACAGTGCGGAGAGCAGGAAGGCATTCATGGCAGCAGTGC
13939 T T A CAAGGAGGCACAGTGCGAAGAGCAGGAAGGCATTCATGGCAGCAGTGC
TGGCATCCAGAACAGCCACCCCTCTCTCGGGCACTGCTGCCATGAATGCCTTCCTGCTCT[CT]CGCACTGTGCCTCCTTGGGGCCTGGGCCGCCTTGGCA
13939 IS [CT] GGAGGGGTCACCGTGCAGGTGAG
13961 I A AGGTGTGAGCCACTTACATCTTAATATAATAATGTATGTCTTTAAATACATCAAAC
13961 P A A CGCGCCGAGGATAATATAAATGCCTTGCATATCATAAY
13961 P T A ATGACGTGGCAGACTTAATATAAATGCCTTGCATATCATAY
13961 T A A AAATTTATGATATGCAAGGCATTTATATTATTTTGATGTATTTAAAGACATACATTATTATATTAAGATGTAAGTGGCTCACACCTGT
13961 T T A AAATTTATGATATGCAAGGCATTTATATTAATTTGATGTATTTAAAGACATACATTATTATATTAAGATGTAAGTGGCTCACACCTGT
ATTACAGGTGTGAGCCACTTACATCTTAATATAATAATGTATGTCTTTAAATACATCAAA[AT]TAATATAAATGCCTTGCATATCATAAATTTCAATTAATGTATC
13961 IS [AT] CTTCACCCTCCTCTCCC
13972 I A AGAAATTAACCAAAAATGACATAAATATTCATGAGATTGCCTTCCTATATCCA
13972 P T A CGCGCCGAGGTTCCTTGTTCCTACCAGTY
13972 P C A ATGACGTGGCAGACCTCCTTGTTCCTACCAGTY
13972 T T A AGACACTGGTAGGAACAAGGAAGGATATAGGAAGGCAATCTCATGAATATTTATGTCATTTTTGGTTAATTTCTAT
13972 T C A AGACACTGGTAGGAACAAGGAGGGATATAGGAAGGCAATCTCATGAATATTTATGTCATTTTTGGTTAATTTCTAT
TTTGAGATAGAAATTAACCAAAAATGACATAAATATTCATGAGATTGCCTTCCTATATCC[TC]TCCTTGTTCCTACCAGTGTCTGCTATTTTGAAGAAGCTAGG
13972 IS [TC] GTCTGGAGGGACAGAGAAC TAP2
13975 I A CAGTATTAATAGCGACATTGGTAACAGCTACCATTTATAGAGTTTTAATGC
13975 P G A ATGACGTGGCAGACGGAGTAGGAGCTATGCTAAY
13975 P T A CGCGCCGAGGTGAGTAGGAGCTATGCTAAY
13975 T G A ACACTTAGCATAGCTCCTACTCCCATTAAAACTCTATAAATGGTAGCTGTTACCAATGTCGCTATTAATACTGTT
13975 T T A ACACTTAGCATAGCTCCTACTCACATTAAAACTCTATAAATGGTAGCTGTTACCAATGTCGCTATTAATACTGTT
CCCTGATTAACAGTATTAATAGCGACATTGGTAACAGCTACCATTTATAGAGTTTTAATG[GT]GAGTAGGAGCTATGCTAAGTGTTTTTCATGTATTATCGTTT
13975 IS [GT] TTAATCATTATCCCCAACC TAP2
13979 I A CCCTACTAAAACTCCCAAGTATAAGAACAATAGGTTGTAAGATGTT
13979 P C A CGCGCCGAGGCTACTCTTGAATCACATTTGTCY
13979 P G A ATGACGTGGCAGACGTACTCTTGAATCACATTTGTCY
13979 T C A AAAAGACAAATGTGATTCAAGAGTAGACATCTTACAACCTATTGTTCTTATACTTGGGAGTTTTAGTAGGGCA
13979 T G A AAAAGACAAATGTGATTCAAGAGTACACATCTTACAACCTATTGTTCTTATACTTGGGAGTTTTAGTAGGGCA
TCCTCACTTAATTTGCCCTACTAAAACTCCCAAGTATAAGAACAATAGGTTGTAAGATGT[CG]TACTCTTGAATCACATTTGTCTTTTGCTTCTTAAAACCCCTA
13979 IS [CG] AGCCATTCAATCTTCAGC
13989 I S GCATGACCTCCTTCCCGGATTACCTGCTT
13989 P C S ATGACGTGGCAGACGGGGACACTGTGCTY
13989 P T S CGCGCCGAGGAGGGACACTGTGCTGY
13989 T C S CACTCAGCACAGTGTCCCCAGCAGGTAATCCGGGAAGGAGGTCATGCAG
13989 T T S CACTCAGCACAGTGTCCCTAGCAGGTAATCCGGGAAGGAGGTCATGCAG
TGCTGGGGAGGAATCCTGGCCCTGTTATAGCTCAGAGGCCCACACTCAGCACAGTGTCCC[CT]AGCAGGTAATCCGGGAAGGAGGTCATGCAGTGGTTTG
13989 IS [CT] GGCCGGGCAGCTGCAAGGAAAAC
14014 I S CCCAGACTGCCCGTCAGCACCCA
14014 P G S ATGACGTGGCAGACCAAGATGCATCTTGCCCY
14014 P A S CGCGCCGAGGTAAGATGCATCTTGCCCY
14014 T G S CTGTGGGCAAGATGCATCTTGGGGTGCTGACGGGCAGTCTGGGCA
14014 T A S CTGTGGGCAAGATGCATCTTAGGGTGCTGACGGGCAGTCTGGGCA
TGGATGTTTACCAATGAGGTGAGCAGCAGGTTTGAGGGTGCTGTGGGCAAGATGCATCTT[GA]GGGTGCTGACGGGCAGTCTGGGCAGCTGAAGGTGTGA
14014 IS [GA] GGCCAACACCAGGGAGCCCCTAG
14015 I S GTCTCATTGTCTCTGTCACACATTCTCTGTTTCTGCCATGT
14015 P T S CGCGCCGAGGATTCCTCTCTGTTCCCTTY
14015 P C S ATGACGTGGCAGACGTTCCTCTCTGTTCCCTY
14015 T T S CAGGAAGGGAACAGAGAGGAATCATGGCAGAAACAGAGAATGTGTGACAGAGACAATGAGACTG
14015 T C S CAGGAAGGGAACAGAGAGGAACCATGGCAGAAACAGAGAATGTGTGACAGAGACAATGAGACTG
AGAGAAACCCCAAGGTGAGCAGAGGGAGACAGAGAGAGACAGGAAGGGAACAGAGAGGAA[TC]CATGGCAGAAACAGAGAATGTGTGACAGAGACAATGA
14015 IS [TC] GACTGACAGATGGAGAGTCAGAG
14031 I S TCCGTTTCTCCCAAATTCCCTCACAAGGACACAA
14031 P A S CGCGCCGAGGTGCTGTGTCCTGGGY
14031 P G S ATGACGTGGCAGACCGCTGTGTCCTGGGY
14031 T A S GAACCCCAGGACACAGCATGTGTCCTTGTGAGGGAATTTGGGAGAAACGGACA
14031 T G S GAACCCCAGGACACAGCGTGTGTCCTTGTGAGGGAATTTGGGAGAAACGGACA
AGGTTTGGGGTCACTCACAGGGAATCTTGCCCCTGCCAGCCATGAACCCCAGGACACAGC[AG]TGTGTCCTTGTGAGGGAATTTGGGAGAAACGGACACTT
14031 IS [AG] CCGGAATGCACGTTCCCAGGCC
14060 I S TCATAATCCCTAACATACTTAACTACACTGTTTCTCATCCAAGAGA
14060 P G S ATGACGTGGCAGACCAGGCGAGCATGCY
14060 P A S CGCGCCGAGGTAGGCGAGCATGCAY
14060 T G S ACCTTGCATGCTCGCCTGCTCTTGGATGAGAAACAGTGTAGTTAAGTATGTTAGGGATTATGAAA
14060 T A S ACCTTGCATGCTCGCCTACTCTTGGATGAGAAACAGTGTAGTTAAGTATGTTAGGGATTATGAAA
TAATTGGATGGAGCAGTGCTGTCTGCGCGAAAGCAAAGGCTTCACCTTGCATGCTCGCCT[GA]CTCTTGGATGAGAAACAGTGTAGTTAAGTATGTTAGGG
14060 IS [GA] ATTATGAAATGTTAGGTAGCGT
14071 I A CTGCCACCATGCCTGGCTAATTTTTGTACTTTTAGTAGAGACT
14071 P A A CGCGCCGAGGAGGGTTTCACTATGTTGGY
14071 P G A ATGACGTGGCAGACGGGGTTTCACTATGTTGGY
14071 T A A CTGGCCAACATAGTGAAACCCTGTCTCTACTAAAAGTACAAAAATTAGCCAGGCATGGTGGCAGGC
14071 T G A CTGGCCAACATAGTGAAACCCCGTCTCTACTAAAAGTACAAAAATTAGCCAGGCATGGTGGCAGGC
AGCTGGGACTACAGGTGCCTGCCACCATGCCTGGCTAATTTTTGTACTTTTAGTAGAGAC[AG]GGGTTTCACTATGTTGGCCAGGCTGGTCTCGAACTCCT
14071 IS [AG] GACCTCATGATCTGCCTGCCTC FZD4
14078 I A GCGGAAACCACTCATTCACCCTGCAAGCA
14078 P C A ATGACGTGGCAGACCCCTCCGGCCACY
14078 P T A CGCGCCGAGGTCCTCCGGCCACY
14078 T C A TGAGGTGGCCGGAGGGGCTTGCAGGGTGAATGAGTGGTTTCCGCCG

FIGURE 129E

14078 T	T	A	TGAGGTGGCCGGAGGAGCTTGCAGGGTGAATGAGTGGTTTCCGCCG	
14078 IS	[CT]		CTGTGTGGTAAGCCAGTCGGGGCCCAGGCTCGGCGGAAACCACTCATTCACCCTGCAAGC[CT]CCTCCGGCCACCTCATGATGATCGGGGCCCAGCTGCT CCTGTAGGCCTGTCTCCCTCCAC	
14088 I		S	AGGGAGCAGGGACATCTTTAGGTTGTAATTAAACTAGAGATTCTTGAAATCT	
14088 P	T	S	CGCGCCGAGGACATCTCTCCTCCTTCCY	
14088 P	C	S	ATGACGTGGCAGACGCATCTCTCCTCCTTCCY	
14088 T	T	S	CCTAGGAAGGAGGAGAGATGTGATTTCAAGAATCTCTAGTTTAATTACAACCTAAAGATGTCCCTGCTCCCTTC	
14088 T	C	S	CCTAGGAAGGAGGAGAGATGCGATTTCAAGAATCTCTAGTTTAATTACAACCTAAAGATGTCCCTGCTCCCTTC	
14088 IS	[TC]		AGTTGTCCCTGCCCAGGTACAGGCCATAGTTAATCCAGTTCCTAGGAAGGAGGAGAGATG[TC]GATTTCAAGAATCTCTAGTTTAATTACAACCTAAAGATGT CCCTGCTCCCTTCCTGCTAA	
14104 I		S	CATTCTCACAAGTCAGGGATTTCTGCCTTGCAAATACCATAAA	
14104 P	G	S	ATGACGTGGCAGACCTGGCAAAGCAGTGAAY	
14104 P	A	S	CGCGCCGAGGTTGGCAAAGCAGTGAAAY	
14104 T	G	S	TGTGTTTCACTGCTTTGCCAGTTATGGTATTTGCAAGGCAGAAATCCCTGACTTGTGAGAATGGC	
14104 T	A	S	TGTGTTTCACTGCTTTGCCAATTATGGTATTTGCAAGGCAGAAATCCCTGACTTGTGAGAATGGC	
14104 IS	[GA]		CCCCTCCATTTATCCATAGAACCATGCTCTCCCTCAAACATGTGTTTCACTGCTTTGCCA[GA]TTATGGTATTTGCAAGGCAGAAATCCCTGACTTGTGAGAA TGGCACCTTATGAGGAAGGA	
14114 I		A	GGTGGGACCCCAGGGAGGAAGACCT	
14114 P	C	A	CGCGCCGAGGCCCCTGCCACAGCY	
14114 P	G	A	ATGACGTGGCAGACGCCCTGCCACAGCY	
14114 T	C	A	GGATGCTGTGGCAGGGGGGTCTTCCTCCCTGGGGTCCCACCAT	
14114 T	G	A	GGATGCTGTGGCAGGGCGGTCTTCCTCCCTGGGGTCCCACCAT	
14114 IS	[CG]		GGTCAGACTCTTTCCTGGAGGACAGCTGGGAGCAATGGTGGGACCCCAGGGAGGAAGACC[CG]CCCTGCCACAGCATCCCATCTCAGGGACGGCCCGGG TTACCTGGCACGAAGAGTGTGTGA	
14124 I		A	CCTGAGTCACAAGCTGAACCATGAGGGTCTGAT	
14124 P	C	A	CGCGCCGAGGCGAGCCAGTTTGAGAAGY	
14124 P	G	A	ATGACGTGGCAGACGGAGCCAGTTTGAGAAGY	
14124 T	C	A	CTCTCTTCTCAAACTGGCTCGTCAGACCCTCATGGTTCAGCTTGTGACTCAGGTC	
14124 T	G	A	CTCTCTTCTCAAACTGGCTCCTCAGACCCTCATGGTTCAGCTTGTGACTCAGGTC	
14124 IS	[CG]		CACCTCATCTCCTTTAGGTAAAGCTGGACCTGAGTCACAAGCTGAACCATGAGGGTCTGA[CG]GAGCCAGTTTGAGAAGAGAGAGAGACAGAGAGCACACA TGCACCTGGGGACCTGGGCCAC	
14125 I		A	CCACCAAGAGGAAGTGCAGGCTGTGAATGTAGA	
14125 P	C	A	ATGACGTGGCAGACCGTATCTCCTAAGCGAGCY	
14125 P	T	A	CGCGCCGAGGTGTATCTCCTAAGCGAGCY	
14125 T	C	A	CTTGGCTCGCTTAGGAGATACGCTACATTCACAGCCTGCACTTCCTCTTGGTGGCA	
14125 T	T	A	CTTGGCTCGCTTAGGAGATACACTACATTCACAGCCTGCACTTCCTCTTGGTGGCA	
14125 IS	[CT]		AAGGATCCAGGTCTGGGAGGGGCCAATGCCACCAAGAGGAAGTGCAGGCTGTGAATGTAG[CT]GTATCTCCTAAGCGAGCCAAGGCCCACCCTGCAGAGA AACGACTGAAGGCTCTGTGCATG	
14137 I		S	TCAGCCTTCAGTCATGACTAAAATGGCTTACTGCAAACATT	
14137 P	C	S	ATGACGTGGCAGACGGGTTCAGAATGCTTCAAY	
14137 P	T	S	CGCGCCGAGGAGGTTCAGAATGCTTCAAGY	
14137 T	C	S	TATACTTGAAGCATTCTGAACCCATGTTTGCAGTAAGCCATTTTAGTCATGACTGAAGGCTGAGT	
14137 T	T	S	TATACTTGAAGCATTCTGAACCTATGTTTGCAGTAAGCCATTTTAGTCATGACTGAAGGCTGAGT	
14137 IS	[CT]		ATTCTCCTTAGTAGAAGCACTTTTCCTCCTGAGTTTCGTATACTTGAAGCATTCTGAACC[CT]ATGTTTGCAGTAAGCCATTTTAGTCATGACTGAAGGCTGA GTTAAGTGATGTAGTCATGA	
14149 I		S	CGCGCCACCCAGTCTAGTTAAGAACCATGACAA	
14149 P	G	S	ATGACGTGGCAGACCAGTCACAGCAAGGCY	
14149 P	A	S	CGCGCCGAGGTAGTCACAGCAAGGCAY	
14149 T	G	S	CCCTTGCCTTGCTGTGACTGTGTCATGGTTCTTAACTAGACTGGGTGGCGCGTT	
14149 T	A	S	CCCTTGCCTTGCTGTGACTATGTCATGGTTCTTAACTAGACTGGGTGGCGCGTT	
14149 IS	[GA]		CTGATCACCCAGCATAACTCACGTCATGTTCCTGCTGGCTGCCCTTGCCTTGCTGTGACT[GA]TGTCATGGTTCTTAACTAGACTGGGTGGCGCGTTTGATG GCCCAGGCATTCGAGAGCTGC	
14150 I		S	GGAGAGCACTCTCTGCCAGTGAACCTCCTGT	
14150 P	G	S	ATGACGTGGCAGACCGTTTCCAGAACTTCTTGCY	
14150 P	T	S	CGCGCCGAGGAGTTTCCAGAACTTCTTGCY	
14150 T	G	S	ATTTGCAAGAAGTTCTGGAAACGCAGGAGGTTCACTGGCAGAGAGTGCTCTCCTT	
14150 T	T	S	ATTTGCAAGAAGTTCTGGAAACTCAGGAGGTTCACTGGCAGAGAGTGCTCTCCTT	
14150 IS	[GT]		GCTCTTTGTGATGCTGAGTGCAGAGGAGTTGGTTGGCCATTTGCAAGAAGTTCTGGAAAC[GT]CAGGAGGTTCACTGGCAGAGAGTGCTCTCCTTTGTGTC TGCCCTGGTTGTCTGCTTTCCA	FANCA
14151 I		S	GCAACTGCAGCTACAGTGGAAAAAAGCAAACTGCTA	
14151 P	G	S	ATGACGTGGCAGACCTTGATCCCAGGTTGGTY	
14151 P	A	S	CGCGCCGAGGTTTGATCCCAGGTTGGTY	
14151 T	G	S	ACATACCAACCTGGGATCAAGAGCAGTTTGCTTTTTTCCACTGTAGCTGCAGTTGCAC	
14151 T	A	S	ACATACCAACCTGGGATCAAAAGCAGTTTGCTTTTTTCCACTGTAGCTGCAGTTGCAC	
14151 IS	[GA]		CCCACCCCCTACCCCCAAGGCCCCTACATGGTGCTCATGCACATACCAACCTGGGATCAA[GA]AGCAGTTTGCTTTTTTCCACTGTAGCTGCAGTTGCACAG AGCCCAAAAGGAAGACAGACC	
14175 I		S	GGACACGTCAGCATGGGACATGCTGCTT	
14175 P	C	S	ATGACGTGGCAGACGGATTTCATTCCACAGGTGY	
14175 P	T	S	CGCGCCGAGGAGATTTCATTCCACAGGTGY	
14175 T	C	S	AAATCACCTGTGGAATGAAATCCAGCAGCATGTCCCATGCTGACGTGTCCAG	
14175 T	T	S	AAATCACCTGTGGAATGAAATCTAGCAGCATGTCCCATGCTGACGTGTCCAG	
14175 IS	[CT]		TCTGCTGTGGGCTGGAGGGGATGCCTTCTGCAGGCTCCAAATCACCTGTGGAATGAAATC[CT]AGCAGCATGTCCCATGCTGACGTGTCCAGCCCTCCCAG CCCTGCCTGTGTGCCAGGGATG	
14182 I		A	GATGTTCCGTGTTTCTGTGCTCCTCTACTCCTTTTCTT	
14182 P	G	A	ATGACGTGGCAGACGATAATTCTTATGTGAAGTTATCAAACY	
14182 P	C	A	CGCGCCGAGGCATAATTCTTATGTGAAGTTATCAAACY	
14182 T	G	A	TCCTGTTTGATAACTTCACATAAGAATTATCAGAAAAGGAGTAGAGGAGCACAGAAACACGGAACATCCA	
14182 T	C	A	TCCTGTTTGATAACTTCACATAAGAATTATGAGAAAAGGAGTAGAGGAGCACAGAAACACGGAACATCCA	
14182 IS	[GC]		AGAAAACTTGTGGATTGATACTGGATGTTCCGTGTTTCTGTGCTCCTCTACTCCTTTTCT[GC]ATAATTCTTATGTGAAGTTATCAAACAGGAAAGTACGTTGT CACATTCCTTCACTCTGGC	
14183 I		A	TTCGAAGGAAAATCTCTAATGGGACTTATAAGCAGGCACTCATTTA	
14183 P	C	A	ATGACGTGGCAGACCCTTATCCAGGAAATGAAAAGY	
14183 P	T	A	CGCGCCGAGGTCTTATCCAGGAAATGAAAAGGY	
14183 T	C	A	ACGGCCTTTTCATTTCCTGGATAAGGAAATGAGTGCCTGCTTATAAGTCCCATTAGAGATTTTCCTTCGAAGA	
14183 T	T	A	ACGGCCTTTTCATTTCCTGGATAAGAAAATGAGTGCCTGCTTATAAGTCCCATTAGAGATTTTCCTTCGAAGA	
14183 IS	[CT]		TTCTGTGAAGGGTTCTTCGAAGGAAAATCTCTAATGGGACTTATAAGCAGGCACTCATTT[CT]CTTATCCAGGAAATGAAAAGGCCGTGTGCTACGGTGGGA CCACCAACCTAAGGAAGATGC	
14193 I		A	ACCCGGGCCCTGCGGGATTTTTTA	
14193 P	T	A	CGCGCCGAGGTTCTGCAGCCCCAGY	
14193 P	C	A	ATGACGTGGCAGACCTCTGCAGCCCCAY	
14193 T	T	A	TCTCCTGGGGCTGCAGAAAAAAAATCCCGCAGGGCCCGGGTGC	
14193 T	C	A	TCTCCTGGGGCTGCAGAGAAAAAATCCCGCAGGGCCCGGGTGC	
14193 IS	[TC]		CGACTTAGAGGCGTTTAGGTTGCTGGAGATGGGAAGCACCCGGGCCCTGCGGGATTTTTT[TC]TCTGCAGCCCCAGGAGACAAGCCTTTTTTTGATTGGGT TGTGGTGCAGTTCCAGGTATTT	
14210 I		S	CCTCTGTGGAGGATAAGCCCAGAAGCAACCT	
14210 P	C	S	ATGACGTGGCAGACGTAGGAACTCGTGAGGAY	
14210 P	T	S	CGCGCCGAGGATAGGAACTCGTGAGGAGY	
14210 T	C	S	TACTCTCCTCACGAGTTCCTACGGTTGCTTCTGGGCTTATCCTCCACAGAGGCT	
14210 T	T	S	TACTCTCCTCACGAGTTCCTATGGTTGCTTCTGGGCTTATCCTCCACAGAGGCT	

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FIGURE 129E

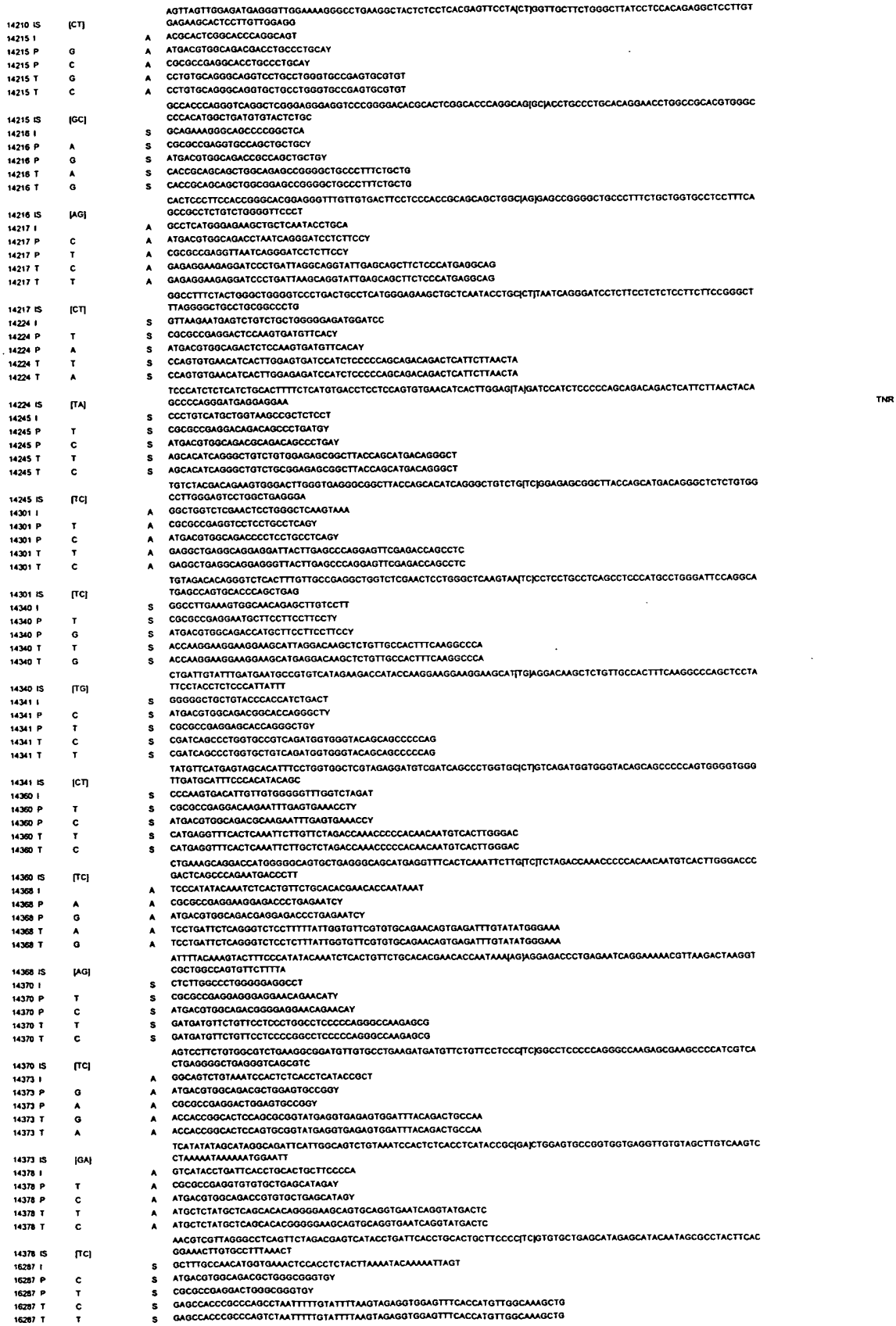

AGTTAGTTGGAGATGAGGGTTGGAAAAGGGCCTGAAGGCTACTCTCCTCACGAGTTCCTA[CT]GGTTGCTTCTGGGCTTATCCTCCACAGAGGCTCCTTGT
14210 IS [CT] GAGAAGCACTCCTTGTTGGAGG
14215 I A ACGCACTCGGCACCCAGGCAGT
14215 P G A ATGACGTGGCAGACGACCTGCCCTGCAY
14215 P C A CGCGCCGAGGCACCTGCCCTGCAY
14215 T G A CCTGTGCAGGGCAGGTCCTGCCTGGGTGCCGAGTGCGTGT
14215 T C A CCTGTGCAGGGCAGGTGCTGCCTGGGTGCCGAGTGCGTGT
14215 IS [GC] GCCACCCAGGGTCAGGCTCGGGAGGGAGGTCCCGGGGACACGCACTCGGCACCCAGGCAG[GC]ACCTGCCCTGCACAGGAACCTGGCCGCACGTGGGC CCCACATGGCTGATGTGTACTCTGC
14218 I S GCAGAAAGGGCAGCCCCGGCTCA
14216 P A S CGCGCCGAGGTGCCAGCTGCTGCY
14216 P G S ATGACGTGGCAGACCGCCAGCTGCTGY
14216 T A S CACCGCAGCAGCTGGCAGAGCCGGGGCTGCCCTTTCTGCTG
14216 T G S CACCGCAGCAGCTGGCGGAGCCGGGGCTGCCCTTTCTGCTG
14216 IS [AG] CACTCCCTTCCACCGGGCACGGAGGGTTTGTTGTGACTTCCTCCCACCGCAGCAGCTGGC[AG]GAGCCGGGGCTGCCCTTTCTGCTGGTGCCTCCTTTCA GCCGCCTCTGTCTGGGGTTCCCT
14217 I A GCCTCATGGGAGAAGCTGCTCAATACCTGCA
14217 P C A ATGACGTGGCAGACCTAATCAGGGATCCTCTTCCY
14217 P T A CGCGCCGAGGTTAATCAGGGATCCTCTTCCY
14217 T C A GAGAGGAAGAGGATCCCTGATTAGGCAGGTATTGAGCAGCTTCTCCCATGAGGCAG
14217 T T A GAGAGGAAGAGGATCCCTGATTAAGCAGGTATTGAGCAGCTTCTCCCATGAGGCAG
14217 IS [CT] GGCCTTTCTACTGGGCTGGGGTCCCTGACTGCCTCATGGGAGAAGCTGCTCAATACCTGC[CT]TAATCAGGGATCCTCTTCCTCTCTCCTTCTTCCGGGCT TTAGGGGCTGCCTGCGGCCCTG
14224 I S GTTAAGAATGAGTCTGTCTGCTGGGGGAGATGGATCC
14224 P T S CGCGCCGAGGACTCCAAGTGATGTTCACY
14224 P A S ATGACGTGGCAGACTCTCCAAGTGATGTTCACAY
14224 T T S CCAGTGTGAACATCACTTGGAGTGATCCATCTCCCCCAGCAGACAGACTCATTCTTAACTA
14224 T A S CCAGTGTGAACATCACTTGGAGAGATCCATCTCCCCCAGCAGACAGACTCATTCTTAACTA
14224 IS [TA] TCCCATCTCTCATCTGCACTTTTCTCATGTGACCTCCTCCAGTGTGAACATCACTTGGAG[TA]GATCCATCTCCCCCAGCAGACAGACTCATTCTTAACTACA GCCCCAGGGATGAGGAGGAA TNR
14245 I S CCCTGTCATGCTGGTAAGCCGCTCTCCT
14245 P T S CGCGCCGAGGACAGACAGCCCTGATGY
14245 P C S ATGACGTGGCAGACGCAGACAGCCCTGAY
14245 T T S AGCACATCAGGGCTGTCTGTGGAGAGCGGCTTACCAGCATGACAGGGCT
14245 T C S AGCACATCAGGGCTGTCTGCGGAGAGCGGCTTACCAGCATGACAGGGCT
14245 IS [TC] TGTCTACGACAGAAGTGGGACTTGGGTGAGGGCGGCTTACCAGCACATCAGGGCTGTCTG[TC]GGAGAGCGGCTTACCAGCATGACAGGGCTCTCTGTGG CCTTGGGAGTCCTGGCTGAGGGA
14301 I A GGCTGGTCTCGAACTCCTGGGCTCAAGTAAA
14301 P T A CGCGCCGAGGTCCTCCTGCCTCAGY
14301 P C A ATGACGTGGCAGACCCCTCCTGCCTCAGY
14301 T T A GAGGCTGAGGCAGGAGGATTACTTGAGCCCAGGAGTTCGAGACCAGCCTC
14301 T C A GAGGCTGAGGCAGGAGGGTTACTTGAGCCCAGGAGTTCGAGACCAGCCTC
14301 IS [TC] TGTAGACACAGGGTCTCACTTTGTTGCCGAGGCTGGTCTCGAACTCCTGGGCTCAAGTAA[TC]CCTCCTGCCTCAGCCTCCCATGCCTGGGATTCCAGGCA TGAGCCAGTGCACCCAGCTGAG
14340 I S GGCCTTGAAAGTGGCAACAGAGCTTGTCCTT
14340 P T S CGCGCCGAGGAATGCTTCCTTCCTTCCTY
14340 P G S ATGACGTGGCAGACCATGCTTCCTTCCTTCCY
14340 T T S ACCAAGGAAGGAAGGAAGCATTAGGACAAGCTCTGTTGCCACTTTCAAGGCCCA
14340 T G S ACCAAGGAAGGAAGGAAGCATGAGGACAAGCTCTGTTGCCACTTTCAAGGCCCA
14340 IS [TG] CTGATTGTATTTGATGAATGCCGTGTCATAGAAGACCATACCAAGGAAGGAAGGAAGCAT[TG]AGGACAAGCTCTGTTGCCACTTTCAAGGCCCAGCTCCTA TTCCTACCTCTCCCATTATTT
14341 I S GGGGGCTGCTGTACCCACCATCTGACT
14341 P C S ATGACGTGGCAGACGGCACCAGGGCTY
14341 P T S CGCGCCGAGGAGCACCAGGGCTGY
14341 T C S CGATCAGCCCTGGTGCCGTCAGATGGTGGGTACAGCAGCCCCCAG
14341 T T S CGATCAGCCCTGGTGCTGTCAGATGGTGGGTACAGCAGCCCCCAG
14341 IS [CT] TATGTTCATGAGTAGCACATTTCCTGGTGGCTCGTAGAGGATGTCGATCAGCCCTGGTGC[CT]GTCAGATGGTGGGTACAGCAGCCCCCAGTGGGGTGGG TTGATGCATTTCCCACATACAGC
14360 I S CCCAAGTGACATTGTTGTGGGGGTTTGGTCTAGAT
14360 P T S CGCGCCGAGGACAAGAATTTGAGTGAAACCTY
14360 P C S ATGACGTGGCAGACGCAAGAATTTGAGTGAAACCY
14360 T T S CATGAGGTTTCACTCAAATTCTTGTTCTAGACCAAACCCCCACAACAATGTCACTTGGGAC
14360 T C S CATGAGGTTTCACTCAAATTCTTGCTCTAGACCAAACCCCCACAACAATGTCACTTGGGAC
14360 IS [TC] CTGAAAGCAGGACCATGGGGGCAGTGCTGAGGGCAGCATGAGGTTTCACTCAAATTCTTG[TC]TCTAGACCAAACCCCCACAACAATGTCACTTGGGACCC GACTCAGCCCAGAATGACCCTT
14368 I A TCCCATATACAAATCTCACTGTTCTGCACACGAACACCAATAAAT
14368 P A A CGCGCCGAGGAAGGAGACCCTGAGAATCY
14368 P G A ATGACGTGGCAGACGAGGAGACCCTGAGAATCY
14368 T A A TCCTGATTCTCAGGGTCTCCTTTTTATTGGTGTTCGTGTGCAGAACAGTGAGATTTGTATATGGGAAA
14368 T G A TCCTGATTCTCAGGGTCTCCTCTTTATTGGTGTTCGTGTGCAGAACAGTGAGATTTGTATATGGGAAA
14368 IS [AG] ATTTTACAAAGTACTTTCCCATATACAAATCTCACTGTTCTGCACACGAACACCAATAAA[AG]AGGAGACCCTGAGAATCAGGAAAAACGTTAAGACTAAGGT CGCTGGCCAGTGTTCTTTTA
14370 I S CTCTTGGCCCTGGGGGAGGCCT
14370 P T S CGCGCCGAGGAGGGAGGAACAGAACATY
14370 P C S ATGACGTGGCAGACGGGGAGGAACAGAACAY
14370 T T S GATGATGTTCTGTTCCTCCCTGGCCTCCCCCAGGGCCAAGAGCG
14370 T C S GATGATGTTCTGTTCCTCCCCGGCCTCCCCCAGGGCCAAGAGCG
14370 IS [TC] AGTCCTTCTGTGGCGTCTGAAGGCGGATGTTGTGCCTGAAGATGATGTTCTGTTCCTCCC[TC]GGCCTCCCCCAGGGCCAAGAGCGAAGCCCCATCGTCA CTGAGGGGCTGAGGGTCAGCGTC
14373 I A GGCAGTCTGTAAATCCACTCTCACCTCATACCGCT
14373 P G A ATGACGTGGCAGACGCTGGAGTGCCGGY
14373 P A A CGCGCCGAGGACTGGAGTGCCGGY
14373 T G A ACCACCGGCACTCCAGCGCGGTATGAGGTGAGAGTGGATTTACAGACTGCCAA
14373 T A A ACCACCGGCACTCCAGTGCGGTATGAGGTGAGAGTGGATTTACAGACTGCCAA
14373 IS [GA] TCATATATAGCATAGGCAGATTCATTGGCAGTCTGTAAATCCACTCTCACCTCATACCGC[GA]CTGGAGTGCCGGTGGTGAGGTTGTGTAGCTTGTCAAGTC CTAAAAATAAAAAATGGAATT
14378 I A GTCATACCTGATTCACCTGCACTGCTTCCCCA
14378 P T A CGCGCCGAGGTGTGTGCTGAGCATAGAY
14378 P C A ATGACGTGGCAGACCGTGTGCTGAGCATAGY
14378 T T A ATGCTCTATGCTCAGCACACAGGGGAAGCAGTGCAGGTGAATCAGGTATGACTC
14378 T C A ATGCTCTATGCTCAGCACACGGGGGAAGCAGTGCAGGTGAATCAGGTATGACTC
14378 IS [TC] AACGTCGTTAGGGCCTCAGTTCTAGACGAGTCATACCTGATTCACCTGCACTGCTTCCCC[TC]GTGTGCTGAGCATAGAGCATACAATAGCGCCTACTTCAC GGAAACTTGTGCCTTTAAACT
16287 I S GCTTTGCCAACATGGTGAAACTCCACCTCTACTTAAAATACAAAAATTAGT
16287 P C S ATGACGTGGCAGACGCTGGGCGGGTGY
16287 P T S CGCGCCGAGGACTGGGCGGGTGY
16287 T C S GAGCCACCCGCCCAGCCTAATTTTTGTATTTTAAGTAGAGGTGGAGTTTCACCATGTTGGCAAAGCTG
16287 T T S GAGCCACCCGCCCAGTCTAATTTTTGTATTTTAAGTAGAGGTGGAGTTTCACCATGTTGGCAAAGCTG

FIGURE 129E

			TGATCCACCCACCTTAGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCCGCCCAG[CT]CTAATTTTTGTATTTTAAGTAGAGGTGGAGTTTCACCAT	
16287	IS	[CT]	GTTGGCAAAGCTGGTCTTGAA	
16326	I		A GGGGAGCAGGCGTGGAAAGCTGAGC	
16326	P	A	A CGCGCCGAGGACCTCTCTCAGCTGCY	
16326	P	T	A ATGACGTGGCAGACTCCTCTCTCAGCTGCY	
16326	T	A	A GCCAGCAGCTGAGAGAGGTCTCAGCTTTCCACGCCTGCTCCCCTG	
16326	T	T	A GCCAGCAGCTGAGAGAGGACTCAGCTTTCCACGCCTGCTCCCCTG	
			CCGTCGGCAGCAGAGGTGGGTCCTTGGAGGGCTTCAGGGGAGCAGGCGTGGAAAGCTGAG[AT]CCTCTCTCAGCTGCTGGCTCTGAACACGCACGGCTG	
16326	IS	[AT]	GGCGGCGGCCTAGCATGCAGTAGG	
16340	I		S TGAATGAGTGAATGAATGAATGAATGAGTGAATGAATGAGTGAT	
16340	P	T	S CGCGCCGAGGATGAATGAATGAGTGAGTGAAY	
16340	P	C	S ATGACGTGGCAGACGTGAATGAATGAGTGAGTGAY	
16340	T	T	S TTCATTCACTCACTCATTCATTCATTCACTCATTCATTCACTCATTCATTCATTCACTCATTCATT	
16340	T	C	S TTCATTCACTCACTCATTCATTCACTCACTCATTCATTCACTCATTCATTCATTCACTCATTCATT	
			CTCATTCATTCATTCACTCATTCATTCATTCACTCATTCATTCACTCACTCATTCATTCA[TC]TCACTCATTCATTCACTCATTCATTCATTCATTCACTCATTCA	
16340	IS	[TC]	TTCATTCATTCATTCTG	
16341	I		A TCATTCATTCACTCATTCATTCACTCACTCATTCATTCATTCAA	
16341	P	C	A ATGACGTGGCAGACCTCATTCATTCACTCATTCATTCY	
16341	P	T	A CGCGCCGAGGTTCATTCATTCACTCATTCATTCY	
16341	T	C	A GAATGAATGAATGAGTGAATGAATGAGTGAATGAATGAGTGAGTGAATGAATGAGTGAATGAATGAAT	
16341	T	T	A GAATGAATGAATGAGTGAATGAATGAATGAATGAATGAGTGAGTGAATGAATGAGTGAATGAATGAAT	
			TTCATTCATTCACTCATTCATTCATTCACTCATTCATTCACTCACTCATTCATTCATTCA[CT]TCATTCATTCACTCATTCATTCATTCATTCACTCATTCATTCA	
16341	IS	[CT]	TTCATTCATTCTGTGTG	
16364	I		A TGCATAAGTCAGTGTCCAATTTCACAAACTTGGACATAAAAATCTGCA	
16364	P	C	A ATGACGTGGCAGACCCATAGTTGGTGAAATTAGGGY	
16364	P	T	A CGCGCCGAGGTCATAGTTGGTGAAATTAGGGY	
16364	T	C	A TAAACCCTAATTTCACCAACTATGGGCAGATTTTTATGTCCAAGTTTGTGAAATTGGACACTGACTTATGCAAG	
16364	T	T	A TAAACCCTAATTTCACCAACTATGAGCAGATTTTTATGTCCAAGTTTGTGAAATTGGACACTGACTTATGCAAG	
			GTAAAACACCCCTTGCATAAGTCAGTGTCCAATTTCACAAACTTGGACATAAAAATCTGC[CT]CATAGTTGGTGAAATTAGGGTTTAAAACAGTATGAGATCA	
16364	IS	[CT]	GATGTCTTCATATGTCTCTG	
16371	I		A GGTGCCAGCCTTCCAGGACCTGGTT	
16371	P	G	A ATGACGTGGCAGACGTATGGCTGGAATAGGCY	
16371	P	C	A CGCGCCGAGGCTATGGCTGGAATAGGCY	
16371	T	G	A TCATGCCTATTCCAGCCATACACCAGGTCCTGGAAGGCTGGCACCAC	
16371	T	C	A TCATGCCTATTCCAGCCATAGACCAGGTCCTGGAAGGCTGGCACCAC	
			CCCCAAGCCTGCGATCCGCTTCCGCCTGGAGCAGGTGGTGCCAGCCTTCCAGGACCTGGT[GC]TATGGCTGGAATAGGCATGAAGTGGCCAGCGTGGAG	
16371	IS	[GC]	GGAGACCCAGTCATCATGAAGAGC	
16389	I		A TCTACCTTCCTGGCCCCACAGCCCT	
16389	P	A	A CGCGCCGAGGAGGCACCTGGGAGY	
16389	P	G	A ATGACGTGGCAGACGGGCACCTGGGAGY	
16389	T	A	A GCACCTCCCAGGTGCCTGGGCTGTGGGGCCAGGAAGGTAGAGC	
16389	T	G	A GCACCTCCCAGGTGCCCGGGCTGTGGGGCCAGGAAGGTAGAGC	
			GAGGTTGTGTGGGCCCCTGGGGTGGGGTCTTGGTGCTCTACCTTCCTGGCCCCACAGCCC[AG]GGCACCTGGGAGGTGCTCCAGGCTTGGGAGACAGCA	
16389	IS	[AG]	AGGAGCTTTTTCCTGATGGGTCAT	
16396	I		A CCTCAGCCTGGGAGCCGTCTCCCA	
16396	P	T	A CGCGCCGAGGTTCCCTCAAAGATGCTGY	
16396	P	C	A ATGACGTGGCAGACCTCCCTCAAAGATGCTGY	
16396	T	T	A CACCCAGCATCTTTGAGGGAAGGGAGACGGCTCCCAGGCTGAGGTT	
16396	T	C	A CACCCAGCATCTTTGAGGGAGGGGAGACGGCTCCCAGGCTGAGGTT	
			TGAGTGCCCCAGTTCTCCGCCACCGTCGCTGTCCCAACCTCAGCCTGGGAGCCGTCTCCC[TC]TCCCTCAAAGATGCTGGGTGTCCTCAAAAGGGATCCC	
16396	IS	[TC]	GGGTGGGCTGGAAAGTCGGGAGC	
16427	I		S AGCTGGCATCTTCGGTGACAGTTCAGCAA	
16427	P	G	S ATGACGTGGCAGACCTGGTACCATGTGGCTY	
16427	P	A	S CGCGCCGAGGTTGGTACCATGTGGCTY	
16427	T	G	S CACCAGCCACATGGTACCAGTGCTGAACTGTCACCGAAGATGCCAGCTGG	
16427	T	A	S CACCAGCCACATGGTACCAATGCTGAACTGTCACCGAAGATGCCAGCTGG	
			TACAGGCAAGCTCACATGACTCTAGGGCAGCGTGACACTTTCACCAGCCACATGGTACCA[GA]TGCTGAACTGTCACCGAAGATGCCAGCTGGAGGAGGGT	
16427	IS	[GA]	CCTGGTGGCTCTGGGAGAGGGG	
16428	I		A GGTGTCCTGGGAGCGCCTGGTT	
16428	P	G	A ATGACGTGGCAGACGGCCCAGCTGGGY	
16428	P	A	A CGCGCCGAGGAGCCCAGCTGGGY	
16428	T	G	A CCAGCCCAGCTGGGCCACCAGGCGCTCCCAGGACACCCC	
16428	T	A	A CCAGCCCAGCTGGGCTACCAGGCGCTCCCAGGACACCCC	
			AGCTGCAGCCTACGGTCGGGTGGGGTCTGGGGGTCTGGGGGTGTCCTGGGAGCGCCTGGT[GA]GCCCAGCTGGGCTGGTGCTAGGAGGGTCTTGCTGC	
16428	IS	[GA]	CGGACAAAGCAAGAACAGCCCTGCA	
16430	I		A GGATGGTCTGGGAGCCTAGTGGGAACTCTATAAATATTTGTGT	
16430	P	C	A ATGACGTGGCAGACCATCAAACTGTACAGGGTTY	
16430	P	A	A CGCGCCGAGGAATCAAACTGTACAGGGTTTY	
16430	T	C	A GAGGAAACCCTGTACAGTTTGATGCACAAATATTTATAGAGTTCCCACTAGGCTCCCAGACCATCCCT	
16430	T	A	A GAGGAAACCCTGTACAGTTTGATTCACAAATATTTATAGAGTTCCCACTAGGCTCCCAGACCATCCCT	
			GGGCAGCTCGGCTCCTAGGGATGGTCTGGGAGCCTAGTGGGAACTCTATAAATATTTGTG[CA]ATCAAACTGTACAGGGTTTCCTCCATTGGCTCCTGGCC	
16430	IS	[CA]	AGGTCAGGGTTAATTCCCTTGG	
16434	I		S AGACCGCCTTCCTGAGGAGAAAATGCAGACTT	
16434	P	G	S ATGACGTGGCAGACCAGGGTTCCAGTAACCAY	
16434	P	T	S CGCGCCGAGGAAGGGTTCCAGTAACCAY	
16434	T	G	S TCACTGGTTACTGGAACCCTGAGTCTGCATTTTCTCCTCAGGAAGGCGGTCTGA	
16434	T	T	S TCACTGGTTACTGGAACCCTTAGTCTGCATTTTCTCCTCAGGAAGGCGGTCTGA	
			TAAAACAAGTAAACTTTATTTGGGAGATGGGGTGAATCCATCACTGGTTACTGGAACCCT[GT]AGTCTGCATTTTCTCCTCAGGAAGGCGGTCTGAAATGGA	
16434	IS	[GT]	GTGGGCTGTGTTTGGCAAGGG	FLJ22638
16435	I		S CAGACCGCCTTCCTGAGGAGAAAATGCAGACC	
16435	P	C	S ATGACGTGGCAGACGCAGGGTTCCAGTAACY	
16435	P	A	S CGCGCCGAGGTCAGGGTTCCAGTAACCY	
16435	T	C	S CACTGGTTACTGGAACCCTGCGTCTGCATTTTCTCCTCAGGAAGGCGGTCTGAA	
16435	T	A	S CACTGGTTACTGGAACCCTGAGTCTGCATTTTCTCCTCAGGAAGGCGGTCTGAA	
			AAAACAAGTAAACTTTATTTGGGAGATGGGGTGAATCCATCACTGGTTACTGGAACCCTG[CA]GTCTGCATTTTCTCCTCAGGAAGGCGGTCTGAAATGGAG	
16435	IS	[CA]	TGGGCTGTGTTTGGCAAGGGT	FLJ22638
16458	I		A CCGACTCCAGGCTGCTACACTTTTACCTATGATATTTTATTCCAT	
16458	P	G	A ATGACGTGGCAGACGTCCGCAGACCCCY	
16458	P	C	A CGCGCCGAGGCTCCGCAGACCCCY	
16458	T	G	A TAATGGGGTCTGCGGACTGGAATAAAATATCATAGGTAAAAGTGTAGCAGCCTGGAGTCGGGG	
16458	T	C	A TAATGGGGTCTGCGGAGTGGAATAAAATATCATAGGTAAAAGTGTAGCAGCCTGGAGTCGGGG	
			GCCCCCAGTCCCCACCCCGACTCCAGGCTGCTACACTTTTACCTATGATATTTTATTCCA[GC]TCCGCAGACCCCATTACATTTCCCTGCCATGAAGGGGCT	
16458	IS	[GC]	TCTCACCTGAAGACAGCCAGA	
16495	I		S CCCATCCTCTCTGGTCTGTTCCTGTGA	
16495	P	A	S CGCGCCGAGGTGGACATGTCACTATACACAY	
16495	P	G	S ATGACGTGGCAGACCGGACATGTCACTATACACY	
16495	T	A	S GAGATGTGTATAGTGACATGTCCACACAGGAACAGACCAGAGAGGATGGGCT	
16495	T	G	S GAGATGTGTATAGTGACATGTCCGCACAGGAACAGACCAGAGAGGATGGGCT	

FIGURE 129E

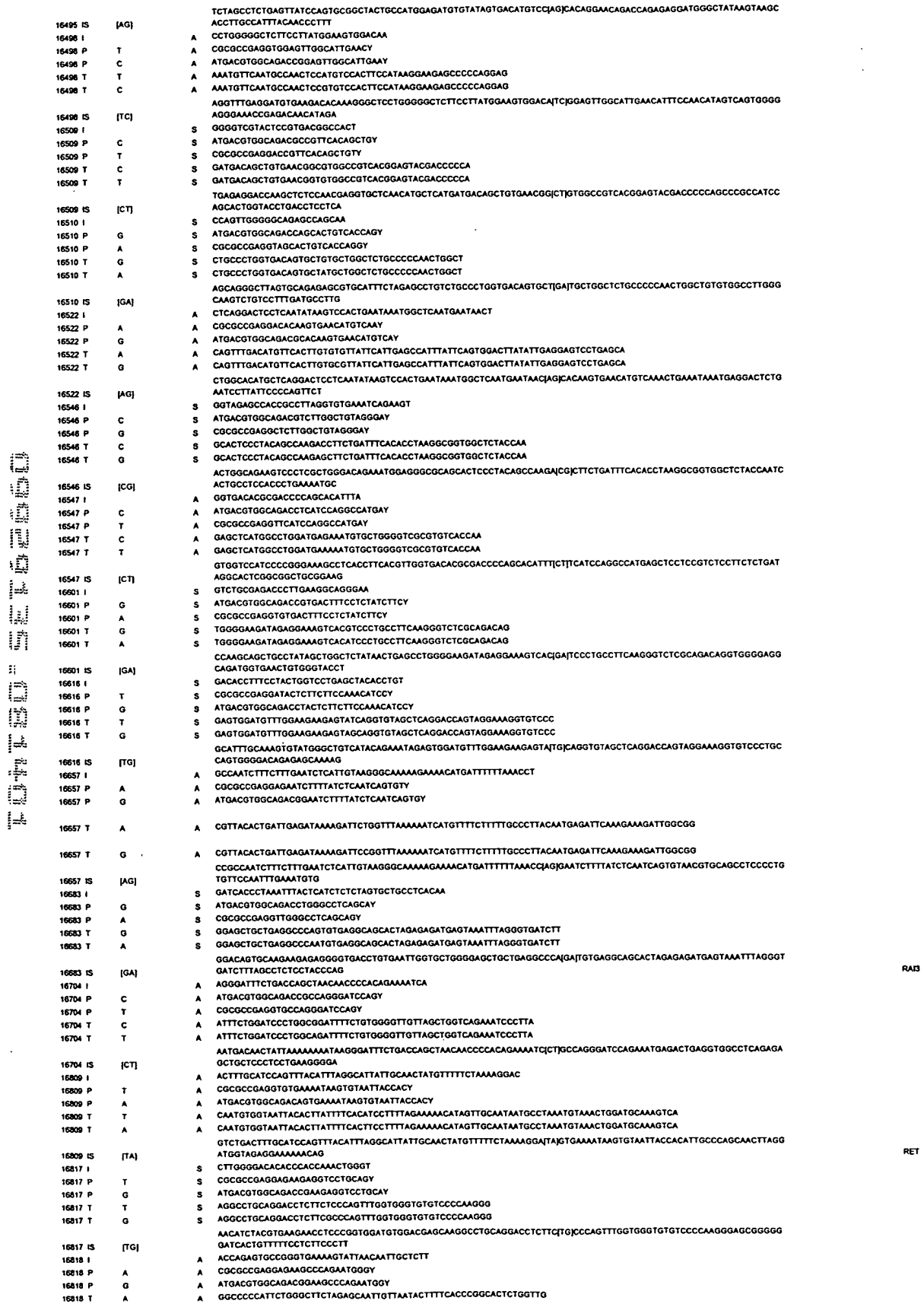
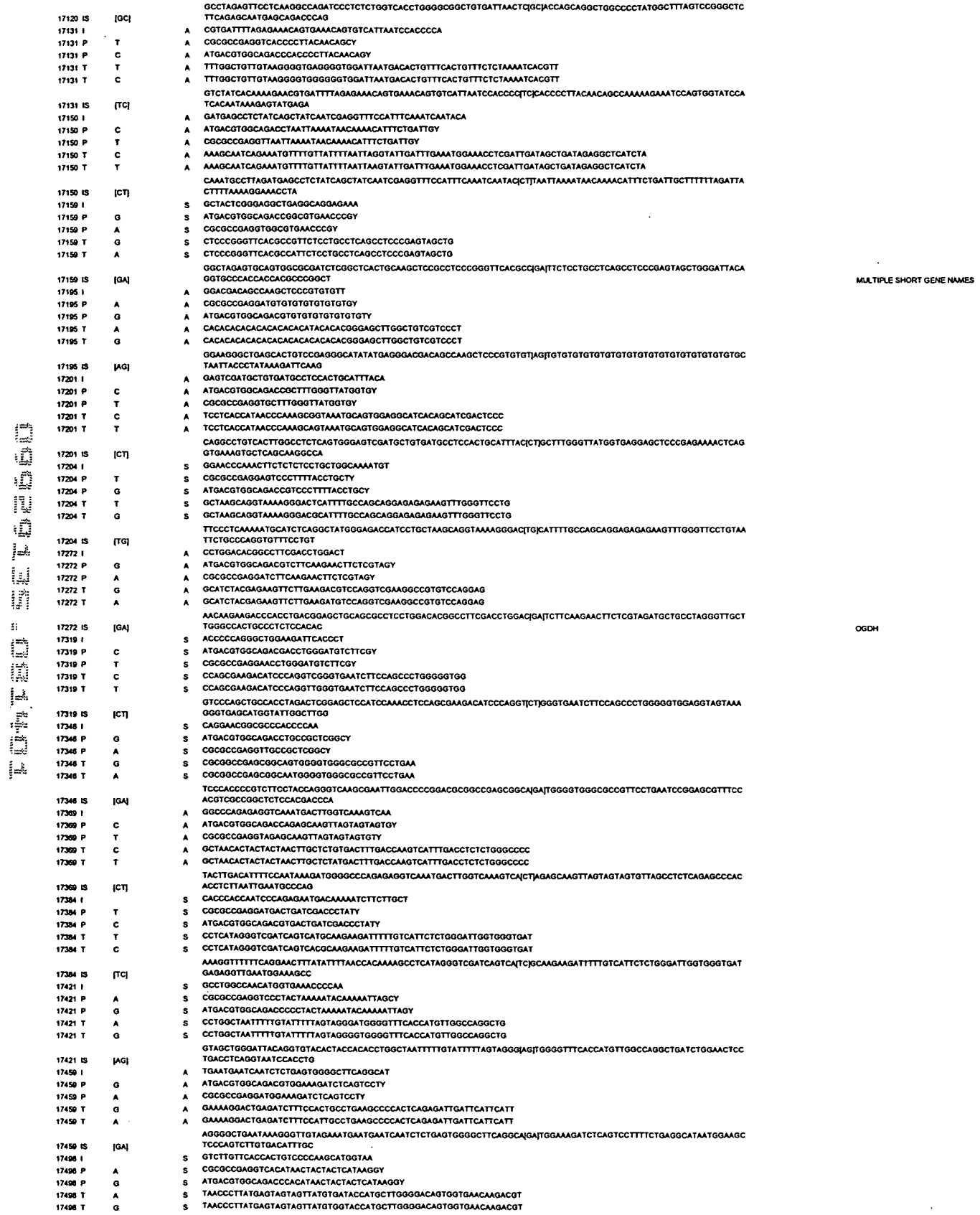

TCTAGCCTCTGAGTTATCCAGTGCGGCTACTGCCATGGAGATGTGTATAGTGACATGTCC[AG]CACAGGAACAGACCAGAGAGGATGGGCTATAAGTAAGC
16495 IS [AG] ACCTTGCCATTTACAACCCTTT
16498 I A CCTGGGGGCTCTTCCTTATGGAAGTGGACAA
16498 P T A CGCGCCGAGGTGGAGTTGGCATTGAACY
16498 P C A ATGACGTGGCAGACCGGAGTTGGCATTGAAY
16498 T T A AAATGTTCAATGCCAACTCCATGTCCACTTCCATAAGGAAGAGCCCCCAGGAG
16498 T C A AAATGTTCAATGCCAACTCCGTGTCCACTTCCATAAGGAAGAGCCCCCAGGAG
AGGTTTGAGGATGTGAAGACACAAAGGGCTCCTGGGGGCTCTTCCTTATGGAAGTGGACA[TC]GGAGTTGGCATTGAACATTTCCAACATAGTCAGTGGGG
16498 IS [TC] AGGGAAACCGAGACAACATAGA
16509 I S GGGGTCGTACTCCGTGACGGCCACT
16509 P C S ATGACGTGGCAGACGCCGTTCACAGCTGY
16509 P T S CGCGCCGAGGACCGTTCACAGCTGTY
16509 T C S GATGACAGCTGTGAACGGCGTGGCCGTCACGGAGTACGACCCCCA
16509 T T S GATGACAGCTGTGAACGGTGTGGCCGTCACGGAGTACGACCCCCA
TGAGAGGACCAAGCTCTCCAACGAGGTGCTCAACATGCTCATGATGACAGCTGTGAACGG[CT]GTGGCCGTCACGGAGTACGACCCCCAGCCCGCCATCC
16509 IS [CT] AGCACTGGTACCTGACCTCCTCA
16510 I S CCAGTTGGGGGCAGAGCCAGCAA
16510 P G S ATGACGTGGCAGACCAGCACTGTCACCAGY
16510 P A S CGCGCCGAGGTAGCACTGTCACCAGGY
16510 T G S CTGCCCTGGTGACAGTGCTGTGCTGGCTCTGCCCCCAACTGGCT
16510 T A S CTGCCCTGGTGACAGTGCTATGCTGGCTCTGCCCCCAACTGGCT
AGCAGGGCTTAGTGCAGAGAGCGTGCATTTCTAGAGCCTGTCTGCCCTGGTGACAGTGCT[GA]TGCTGGCTCTGCCCCCAACTGGCTGTGTGGCCTTGGG
16510 IS [GA] CAAGTCTGTCCTTTGATGCCTTG
16522 I A CTCAGGACTCCTCAATATAAGTCCACTGAATAAATGGCTCAATGAATAACT
16522 P A A CGCGCCGAGGACACAAGTGAACATGTCAAY
16522 P G A ATGACGTGGCAGACGCACAAGTGAACATGTCAY
16522 T A A CAGTTTGACATGTTCACTTGTGTGTTATTCATTGAGCCATTTATTCAGTGGACTTATATTGAGGAGTCCTGAGCA
16522 T G A CAGTTTGACATGTTCACTTGTGCGTTATTCATTGAGCCATTTATTCAGTGGACTTATATTGAGGAGTCCTGAGCA
CTGGCACATGCTCAGGACTCCTCAATATAAGTCCACTGAATAAATGGCTCAATGAATAAC[AG]CACAAGTGAACATGTCAAACTGAAATAAATGAGGACTCTG
16522 IS [AG] AATCCTTATTCCCCAGTTCT
16546 I S GGTAGAGCCACCGCCTTAGGTGTGAAATCAGAAGT
16546 P C S ATGACGTGGCAGACGTCTTGGCTGTAGGGAY
16546 P G S CGCGCCGAGGCTCTTGGCTGTAGGGAY
16546 T C S GCACTCCCTACAGCCAAGACCTTCTGATTTCACACCTAAGGCGGTGGCTCTACCAA
16546 T G S GCACTCCCTACAGCCAAGAGCTTCTGATTTCACACCTAAGGCGGTGGCTCTACCAA
ACTGGCAGAAGTCCCTCGCTGGGACAGAAATGGAGGGCGCAGCACTCCCTACAGCCAAGA[CG]CTTCTGATTTCACACCTAAGGCGGTGGCTCTACCAATC
16546 IS [CG] ACTGCCTCCACCCTGAAAATGC
16547 I A GGTGACACGCGACCCCAGCACATTTA
16547 P C A ATGACGTGGCAGACCTCATCCAGGCCATGAY
16547 P T A CGCGCCGAGGTTCATCCAGGCCATGAY
16547 T C A GAGCTCATGGCCTGGATGAGAAATGTGCTGGGGTCGCGTGTCACCAA
16547 T T A GAGCTCATGGCCTGGATGAAAAATGTGCTGGGGTCGCGTGTCACCAA
GTGGTCCATCCCCGGGAAAGCCTCACCTTCACGTTGGTGACACGCGACCCCAGCACATTT[CT]TCATCCAGGCCATGAGCTCCTCCGTCTCCTTCTCTGAT
16547 IS [CT] AGGCACTCGGCGGCTGCGGAAG
16601 I S GTCTGCGAGACCCTTGAAGGCAGGGAA
16601 P G S ATGACGTGGCAGACCGTGACTTTCCTCTATCTTCY
16601 P A S CGCGCCGAGGTGTGACTTTCCTCTATCTTCY
16601 T G S TGGGGAAGATAGAGGAAAGTCACGTCCCTGCCTTCAAGGGTCTCGCAGACAG
16601 T A S TGGGGAAGATAGAGGAAAGTCACATCCCTGCCTTCAAGGGTCTCGCAGACAG
CCAAGCAGCTGCCTATAGCTGGCTCTATAACTGAGCCTGGGGAAGATAGAGGAAAGTCAC[GA]TCCCTGCCTTCAAGGGTCTCGCAGACAGGTGGGGAGG
16601 IS [GA] CAGATGGTGAACTGTGGGTACCT
16616 I S GACACCTTTCCTACTGGTCCTGAGCTACACCTGT
16616 P T S CGCGCCGAGGATACTCTTCTTCCAAACATCCY
16616 P G S ATGACGTGGCAGACCTACTCTTCTTCCAAACATCCY
16616 T T S GAGTGGATGTTTGGAAGAAGAGTATCAGGTGTAGCTCAGGACCAGTAGGAAAGGTGTCCC
16616 T G S GAGTGGATGTTTGGAAGAAGAGTAGCAGGTGTAGCTCAGGACCAGTAGGAAAGGTGTCCC
GCATTTGCAAAGTGTATGGGCTGTCATACAGAAATAGAGTGGATGTTTGGAAGAAGAGTA[TG]CAGGTGTAGCTCAGGACCAGTAGGAAAGGTGTCCCTGC
16616 IS [TG] CAGTGGGGACAGAGAGCAAAAG
16657 I A GCCAATCTTTCTTTGAATCTCATTGTAAGGGCAAAAAGAAAACATGATTTTTTAAACCT
16657 P A A CGCGCCGAGGAGAATCTTTTATCTCAATCAGTGTY
16657 P G A ATGACGTGGCAGACGGAATCTTTTATCTCAATCAGTGY
16657 T A A CGTTACACTGATTGAGATAAAAGATTCTGGTTTAAAAAATCATGTTTTCTTTTTGCCCTTACAATGAGATTCAAAGAAAGATTGGCGG
16657 T G A CGTTACACTGATTGAGATAAAAGATTCCGGTTTAAAAAATCATGTTTTCTTTTTGCCCTTACAATGAGATTCAAAGAAAGATTGGCGG
CCGCCAATCTTTCTTTGAATCTCATTGTAAGGGCAAAAAGAAAACATGATTTTTTAAACC[AG]GAATCTTTTATCTCAATCAGTGTAACGTGCAGCCTCCCCTG
16657 IS [AG] TGTTCCAATTTGAAATGTG
16683 I S GATCACCCTAAATTTACTCATCTCTCTAGTGCTGCCTCACAA
16683 P G S ATGACGTGGCAGACCTGGGCCTCAGCAY
16683 P A S CGCGCCGAGGTTGGGCCTCAGCAGY
16683 T G S GGAGCTGCTGAGGCCCAGTGTGAGGCAGCACTAGAGAGATGAGTAAATTTAGGGTGATCTT
16683 T A S GGAGCTGCTGAGGCCCAATGTGAGGCAGCACTAGAGAGATGAGTAAATTTAGGGTGATCTT
GGACAGTGCAAGAAGAGAGGGGTGACCTGTGAATTGGTGCTGGGGAGCTGCTGAGGCCCA[GA]TGTGAGGCAGCACTAGAGAGATGAGTAAATTTAGGGT
16683 IS [GA] GATCTTTAGCCTCTCCTACCCAG
16704 I A AGGGATTTCTGACCAGCTAACAACCCCACAGAAAATCA
16704 P C A ATGACGTGGCAGACCGCCAGGGATCCAGY
16704 P T A CGCGCCGAGGTGCCAGGGATCCAGY
16704 T C A ATTTCTGGATCCCTGGCGGATTTTCTGTGGGGTTGTTAGCTGGTCAGAAATCCCTTA
16704 T T A ATTTCTGGATCCCTGGCAGATTTTCTGTGGGGTTGTTAGCTGGTCAGAAATCCCTTA
AATGACAACTATTAAAAAAAATAAGGGATTTCTGACCAGCTAACAACCCCACAGAAAATC[CT]GCCAGGGATCCAGAAATGAGACTGAGGTGGCCTCAGAGA
16704 IS [CT] GCTGCTCCCTCCTGAAGGGGA
16809 I A ACTTTGCATCCAGTTTACATTTAGGCATTATTGCAACTATGTTTTTCTAAAAGGAC
16809 P T A CGCGCCGAGGTGTGAAAATAAGTGTAATTACCACY
16809 P A A ATGACGTGGCAGACAGTGAAAATAAGTGTAATTACCACY
16809 T T A CAATGTGGTAATTACACTTATTTTCACATCCTTTTAGAAAAACATAGTTGCAATAATGCCTAAATGTAAACTGGATGCAAAGTCA
16809 T A A CAATGTGGTAATTACACTTATTTTCACTTCCTTTTAGAAAAACATAGTTGCAATAATGCCTAAATGTAAACTGGATGCAAAGTCA
GTCTGACTTTGCATCCAGTTTACATTTAGGCATTATTGCAACTATGTTTTTCTAAAAGGA[TA]GTGAAAATAAGTGTAATTACCACATTGCCCAGCAACTTAGG
16809 IS [TA] ATGGTAGAGGAAAAAACAG
16817 I S CTTGGGGACACACCCACCAAACTGGGT
16817 P T S CGCGCCGAGGAGAAGAGGTCCTGCAGY
16817 P G S ATGACGTGGCAGACCGAAGAGGTCCTGCAY
16817 T T S AGGCCTGCAGGACCTCTTCTCCCAGTTTGGTGGGGTGTGTCCCCAAGGG
16817 T G S AGGCCTGCAGGACCTCTTCGCCCAGTTTGGTGGGGTGTGTCCCCAAGGG
AACATCTACGTGAAGAACCTCCCGGTGGATGTGGACGAGCAAGGCCTGCAGGACCTCTTC[TG]CCCAGTTTGGTGGGTGTGTCCCCAAGGGAGCGGGGG
16817 IS [TG] GATCACTGTTTTTCCTCTTCCCTT
16818 I A ACCAGAGTGCCGGGTGAAAAGTATTAACAATTGCTCTT
16818 P A A CGCGCCGAGGAGAAGCCCAGAATGGGY
16818 P G A ATGACGTGGCAGACGGAAGCCCAGAATGGY
16818 T A A GGCCCCCATTCTGGGCTTCTAGAGCAATTGTTAATACTTTTCACCCGGCACTCTGGTTG
RAI3
RET

FIGURE 129E

16818	T	G	A	GGCCCCCATTCTGGGCTTCCAGAGCAATTGTTAATACTTTTCACCCGGCACTCTGGTTG
16818	IS	[AG]		GCAGGCAGAAAGGGAAATTACCAACCAGAGTGCCGGGTGAAAAGTATTAACAATTGCTCT[AG]GAAGCCCAGAATGGGGGCCATCCATTCTACATCAGAGA TTGGAAGGACAGTTACAAAAGA
16821	I		A	GAGGAAGAATCCAGAAATGTATGACCTTCCTCTGTTGAGAACTAATAGATT
16821	P	A	A	CGCGCCGAGGATGTTGGGTTCATCCTTCY
16821	P	G	A	ATGACGTGGCAGACGTGTTGGGTTCATCCTTCY
16821	T	A	A	TGTGGAAGGATGAACCCAACATATCTATTAGTTCTCAACAGAGGAAGGTCATACATTTCTGGATTCTTCCTCGT
16821	T	G	A	TGTGGAAGGATGAACCCAACACATCTATTAGTTCTCAACAGAGGAAGGTCATACATTTCTGGATTCTTCCTCGT
16821	IS	[AG]		CCCATACCACGAGGAAGAATCCAGAAATGTATGACCTTCCTCTGTTGAGAACTAATAGAT[AG]TGTTGGGTTCATCCTTCCACACCCATTACCTGAGCGTTGA GAGATATGGGAATCTGTAGT
16887	I		A	GCAGGCACCGGCTGTCAAGGGATCTCA
16887	P	C	A	ATGACGTGGCAGACCCTCCAGGTTTAGAGCAY
16887	P	T	A	CGCGCCGAGGTCTCCAGGTTTAGAGCATY
16887	T	C	A	GGCCATGCTCTAAACCTGGAGGGAGATCCCTTGACAGCCGGTGCCTGCCA
16887	T	T	A	GGCCATGCTCTAAACCTGGAGAGAGATCCCTTGACAGCCGGTGCCTGCCA
16887	IS	[CT]		GCTTATTACAAGACAGCTGGCTGGGGCAGATGTGGCAGGCACCGGCTGTCAAGGGATCTC[CT]CTCCAGGTTTAGAGCATGGCCCCCCTGACCCACCTAG GGCTTGGCTTGGCCTCCTCCTAC
16896	I		A	GTCTCTACAATAGACTTGAGGTACCTGAGAAGGAAAAGATAA
16896	P	T	A	CGCGCCGAGGTAAAACATGTAACAGACAAATTTAGAY
16896	P	C	A	ATGACGTGGCAGACCAAAACATGTAACAGACAAATTTAGY
16896	T	T	A	TGGTTCTAAATTTGTCTGTTACATGTTTTATATCTTTTCCTTCTCAGGTACCTCAAGTCTATTGTAGAGACAA
16896	T	C	A	TGGTTCTAAATTTGTCTGTTACATGTTTTGTATCTTTTCCTTCTCAGGTACCTCAAGTCTATTGTAGAGACAA
16896	IS	[TC]		ATGCTTATATATTAAAATTGTCTCTACAATAGACTTGAGGTACCTGAGAAGGAAAAGATA[TC]AAAACATGTAACAGACAAATTTAGAACCACCTGTTCCCATG TATCCCAGTCTAATTCTGT
16952	I		A	CGCTGGGGTCGGGGGCCCC
16952	P	T	A	CGCGCCGAGGTGGCCTTACTGAGTTGGY
16952	P	G	A	ATGACGTGGCAGACGGGCCTTACTGAGTTGY
16952	T	T	A	TGCCCCAACTCAGTAAGGCCAGGGCCCCCGACCCCAGCGGC
16952	T	G	A	TGCCCCAACTCAGTAAGGCCCGGGCCCCCGACCCCAGCGGC
16952	IS	[TG]		TGAGGGCATCGGCAAGAAAAAGAAGGTGGTGGCCGTGGCAGCCGCTGGGGTCGGGGGCCC[TG]GGCCTTACTGAGTTGGGGCACCCACGCAAACGGGG CCGGGGGGAGGTAGACGCTGTGACT
16996	I		A	GTCATTTTACTTTCCCTTCCCCCACGCTCCTT
16996	P	A	A	CGCGCCGAGGAGACCGTCGCAGCY
16996	P	G	A	ATGACGTGGCAGACGGACCGTCGCAGCY
16996	T	A	A	TTTGGCTGCGACGGTCTAGGAGCGTGGGGGAAGGGAAAGTAAAATGACCT
16996	T	G	A	TTTGGCTGCGACGGTCCAGGAGCGTGGGGGAAGGGAAAGTAAAATGACCT
16996	IS	[AG]		TCTAGGCTTCAAGGAAGGGACCTTGAAAGGTCATTTTACTTTCCCTTCCCCCACGCTCCT[AG]GACCGTCGCAGCCAAATGAGAAACGGCCCACATCTCACA GGTTCCTGCACAAAAGGATAT
16999	I		A	GCCCATTGCACAGAACAAGACTAATGTAAGCTCCACAAATAA
16999	P	T	A	CGCGCCGAGGTTGGTAGCATTCAAATGAACTY
16999	P	C	A	ATGACGTGGCAGACCTGGTAGCATTCAAATGAACY
16999	T	T	A	ATTCAGTTCATTTGAATGCTACCAATATTTGTGGAGCTTACATTAGTCTTGTTCTGTGCAATGGGCGC
16999	T	C	A	ATTCAGTTCATTTGAATGCTACCAGTATTTGTGGAGCTTACATTAGTCTTGTTCTGTGCAATGGGCGC
16999	IS	[TC]		ATGGCTGTGTCTGTTTTGCGCCCATTGCACAGAACAAGACTAATGTAAGCTCCACAAATA[TC]TGGTAGCATTCAAATGAACTGAATTTCTGGAAGAGTGGCT TCTCATTTAACATGTCACTT
17026	I		S	GCAGTCAGTAATAGAGCTCAAGCCTTCTTTCCCCCC
17026	P	A	S	CGCGCCGAGGTGATTTCTTGCATTGATTGGY
17026	P	C	S	ATGACGTGGCAGACGGATTTCTTGCATTGATTGGY
17026	T	A	S	AGCACCAATCAATGCAAGAAATCAGGGGGAAAGAAGGCTTGAGCTCTATTACTGACTGCAC
17026	T	C	S	AGCACCAATCAATGCAAGAAATCCGGGGGAAAGAAGGCTTGAGCTCTATTACTGACTGCAC
17026	IS	[AC]		TCCAGAAAACCATTACTTAAGTTACTAAAGTTTTACCAGCACCAATCAATGCAAGAAATC[AC]GGGGGAAAGAAGGCTTGAGCTCTATTACTGACTGCACCAA TGAATTCAGATTTTTACATG
17050	I		A	CCCAGGACTTCCTGCGCTGTGTCAGTT
17050	P	G	A	ATGACGTGGCAGACGCCATCATCATCTTCCTGY
17050	P	A	A	CGCGCCGAGGACCATCATCATCTTCCTGY
17050	T	G	A	CCACCAGGAAGATGATGATGGCACTGACACAGCGCAGGAAGTCCTGGGGG
17050	T	A	A	CCACCAGGAAGATGATGATGGTACTGACACAGCGCAGGAAGTCCTGGGGG
17050	IS	[GA]		CTTCTGAGGTCCTGTTAACCCTGCACCCCTGGCCCCCAGGACTTCCTGCGCTGTGTCAGT[GA]CCATCATCATCTTCCTGGTGGTCTCCTTTGCAGCTGTG ACCTCCCGGGACGGAGCTGCCA
17052	I		A	CTCGCAGTCCTCTAGAACAGCTTCAGATTATGGCTTTTTCC
17052	P	T	A	CGCGCCGAGGTTTTGAGGAAGAAATTATTCACTCY
17052	P	G	A	ATGACGTGGCAGACGTTTGAGGAAGAAATTATTCACTCY
17052	T	T	A	TCTGGAGTGAATAATTTCTTCCTCAAAAGAAAAAGCCATAATCTGAAGCTGTTCTAGAGGACTGCGAGTT
17052	T	G	A	TCTGGAGTGAATAATTTCTTCCTCAAACGAAAAAGCCATAATCTGAAGCTGTTCTAGAGGACTGCGAGTT
17052	IS	[TG]		TGAGGATGTTAACTTTGGAACTCGCAGTCCTCTAGAACAGCTTCAGATTATGGCTTTTTC[TG]TTTGAGGAAGAAATTATTCACTCCAGATGCATGCCCTGAG CCAGACCTCACTGCTGCACT
17078	I		A	CATCCGGGAATCTCCTCCCGTCAGAACTGT
17078	P	G	A	ATGACGTGGCAGACGGTTAGTGTCTCTGATGCY
17078	P	A	A	CGCGCCGAGGAGTTAGTGTCTCTGATGCGY
17078	T	G	A	ACTTCGCATCAGAGACACTAACCCAGTTCTGACGGGAGGAGATTCCCGGATGCC
17078	T	A	A	ACTTCGCATCAGAGACACTAACTCAGTTCTGACGGGAGGAGATTCCCGGATGCC
17078	IS	[GA]		GGTGCTGGTTCTGTGCCCAGGCACCTGCTGGCATCCGGGAATCTCCTCCCGTCAGAACTG[GA]GTTAGTGTCTCTGATGCGAAGTGGTGAGTCATCATAGT CGTCATCACAAATTTCCAGTCA
17090	I		A	CCTTTGTGGCTATCCAGGGACCAGTGAAAACAAA
17090	P	T	A	CGCGCCGAGGTGCATGTGTCTTCCCTY
17090	P	C	A	ATGACGTGGCAGACCGCATGTGTCTTCCCY
17090	T	T	A	TGCTAGGGAAGACACATGCATTGTTTTCACTGGTCCCTGGATAGCCACAAAGGCA
17090	T	C	A	TGCTAGGGAAGACACATGCGTTGTTTTCACTGGTCCCTGGATAGCCACAAAGGCA
17090	IS	[TC]		GGACCTCAACATTGAAATATGCTTTTGCCTTTGTGGCTATCCAGGGACCAGTGAAAACAA[TC]GCATGTGTCTTCCCTAGCATTGGGTCAAATTCAGCTGTT GCTTCTCACGCACCGGACAGG
17104	I		A	GCTGGGCTGGGAGTGGTGGCTCAA
17104	P	T	A	CGCGCCGAGGTGCCTGTCATCCCAGY
17104	P	C	A	ATGACGTGGCAGACCGCCTGTCATCCCAY
17104	T	T	A	AGTGCTGGGATGACAGGCATGAGCCACCACTCCCAGCCCAGCCT
17104	T	C	A	AGTGCTGGGATGACAGGCGTGAGCCACCACTCCCAGCCCAGCCT
17104	IS	[TC]		GTGAAAACAGCCTAGCACAGTGGTTAAGATCTGGGAGGCTGGGCTGGGAGTGGTGGCTCA[TC]GCCTGTCATCCCAGCACTTTGGGAAGCCGAGGCAGGC AGATCATCTGAGGTCAGGAGTTC
17117	I		A	CCCAACGTACAAGGAATACCTCAATATTTCCTGTGCTCCT
17117	P	A	A	CGCGCCGAGGACCAAAATTTAAAACCAACAAAATY
17117	P	C	A	ATGACGTGGCAGACCCCAAAATTTAAAACCAACAAAAY
17117	T	A	A	TTGCATTTTGTTGGTTTTAAATTTTGGTGGAGCACAGGAAATATTGAGGTATTCCTTGTACGTTGGGAA
17117	T	C	A	TTGCATTTTGTTGGTTTTAAATTTTGGGGGAGCACAGGAAATATTGAGGTATTCCTTGTACGTTGGGAA
17117	IS	[AC]		TATCTACCTACTTAAATCGTTCCCAACGTACAAGGAATACCTCAATATTTCCTGTGCTCC[AC]CCAAAATTTAAAACCAACAAAATGCAAAACTTTTCAGGCAT TATTATAAAGTTTTAGAAA
17120	I		A	GGTCACCTGGGGCGGCTGTGATTAACTCT
17120	P	G	A	ATGACGTGGCAGACGACCAGCAGGCTGGY
17120	P	C	A	CGCGCCGAGGCACCAGCAGGCTGGY
17120	T	G	A	GGGGCCAGCCTGCTGGTCGAGTTAATCACAGCCGCCCCAGGTGACCAG
17120	T	C	A	GGGGCCAGCCTGCTGGTGGAGTTAATCACAGCCGCCCCAGGTGACCAG

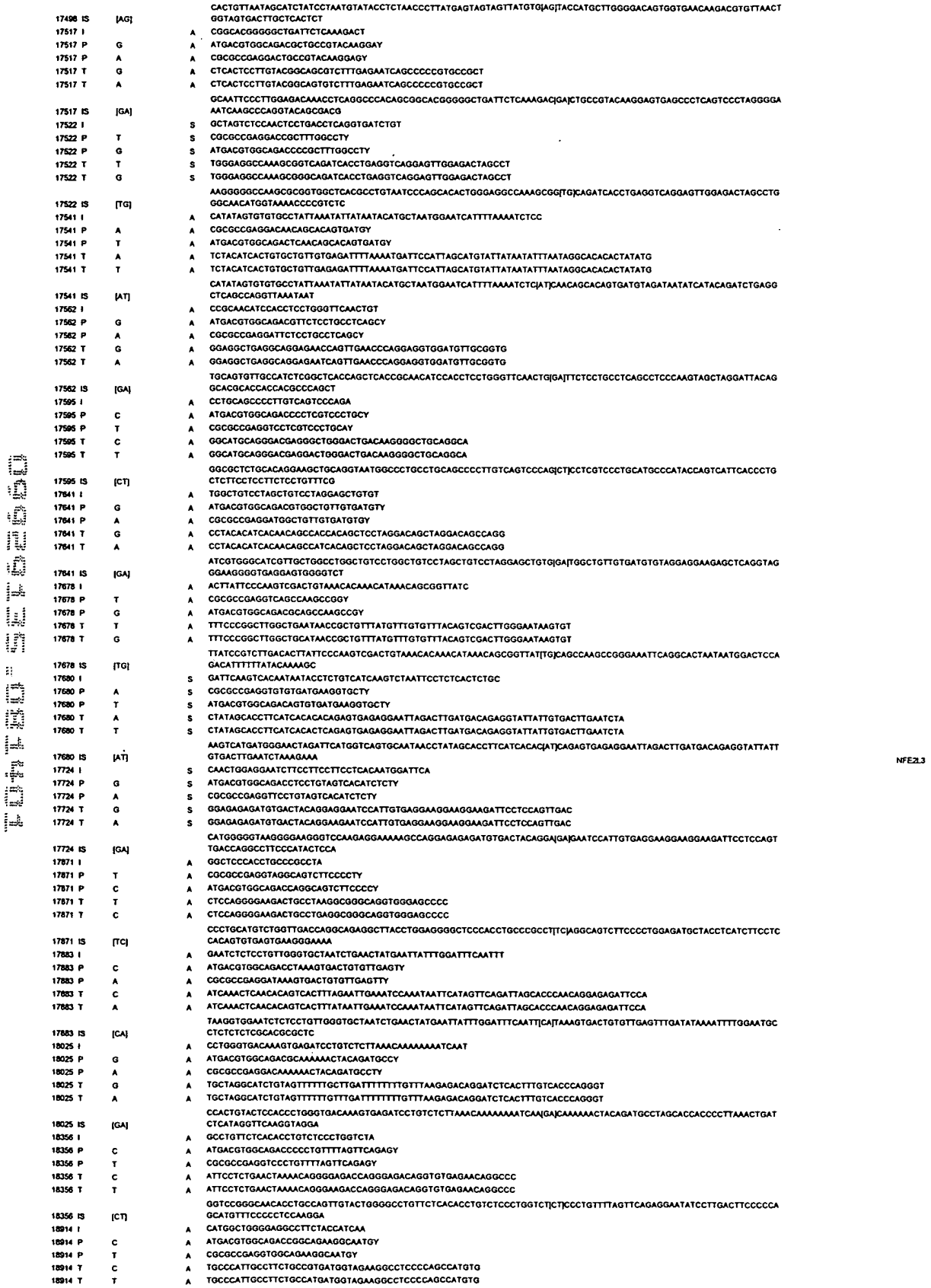
FIGURE 129E



MULTIPLE SHORT GENE NAMES

OGDH

FIGURE 129E



NFE2L3

FIGURE 129E

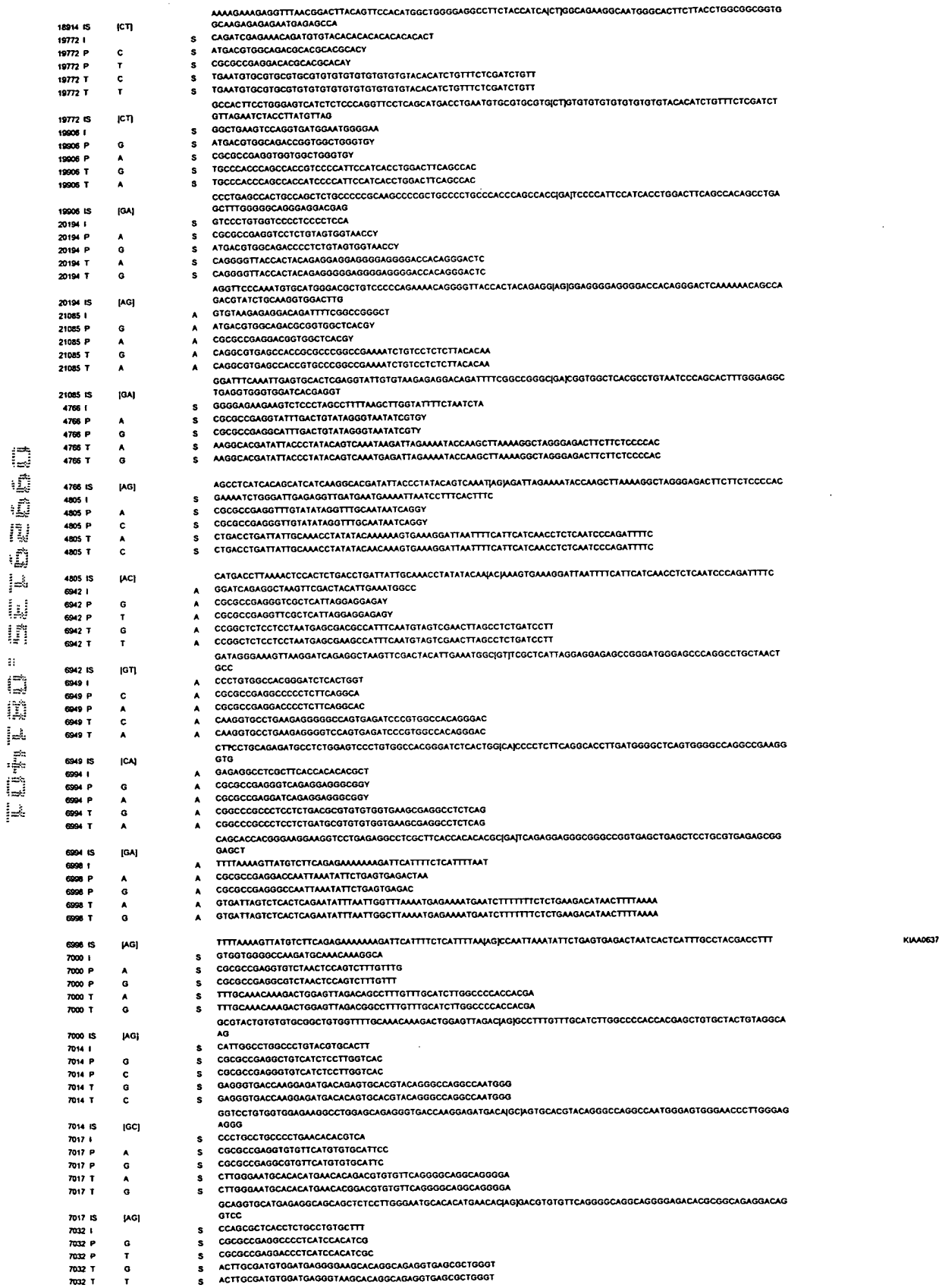

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18914 IS [CT] GCAAGAGAGAGAATGAGAGCCA
19772 I S CAGATCGAGAAACAGATGTGTACACACACACACACACACT
19772 P C S ATGACGTGGCAGACGCACGCACGCACY
19772 P T S CGCGCCGAGGACACGCACGCACAY
19772 T C S TGAATGTGCGTGCGTGCGTGTGTGTGTGTGTGTGTACACATCTGTTTCTCGATCTGTT
19772 T T S TGAATGTGCGTGCGTGTGTGTGTGTGTGTGTGTGTACACATCTGTTTCTCGATCTGTT
GCCACTTCCTGGGAGTCATCTCTCCCAGGTTCCTCAGCATGACCTGAATGTGCGTGCGTG[CT]GTGTGTGTGTGTGTGTGTACACATCTGTTTCTCGATCT
19772 IS [CT] GTTAGAATCTACCTTATGTTAG
19906 I S GGCTGAAGTCCAGGTGATGGAATGGGGAA
19906 P G S ATGACGTGGCAGACCGGTGGCTGGGTGY
19906 P A S CGCGCCGAGGTGGTGGCTGGGTGY
19906 T G S TGCCCACCCAGCCACCGTCCCCATTCCATCACCTGGACTTCAGCCAC
19906 T A S TGCCCACCCAGCCACCATCCCCATTCCATCACCTGGACTTCAGCCAC
CCCTGAGCCACTGCCAGCTCTGCCCCCGCAAGCCCCGCTGCCCCTGCCCACCCAGCCACC[GA]TCCCCATTCCATCACCTGGACTTCAGCCACAGCCTGA
19906 IS [GA] GCTTTGGGGGCAGGGAGGACGAG
20194 I S GTCCCTGTGGTCCCCTCCCCTCCA
20194 P A S CGCGCCGAGGTCCTCTGTAGTGGTAACCY
20194 P G S ATGACGTGGCAGACCCCTCTGTAGTGGTAACCY
20194 T A S CAGGGGTTACCACTACAGAGGAGGAGGGGAGGGGACCACAGGGACTC
20194 T G S CAGGGGTTACCACTACAGAGGGGGAGGGGAGGGGACCACAGGGACTC
AGGTTCCCAAATGTGCATGGGACGCTGTCCCCCAGAAAACAGGGGTTACCACTACAGAGG[AG]GGAGGGGAGGGGACCACAGGGACTCAAAAAACAGCCA
20194 IS [AG] GACGTATCTGCAAGGTGGACTTG
21085 I A GTGTAAGAGAGGACAGATTTTCGGCCGGGCT
21085 P G A ATGACGTGGCAGACGCGGTGGCTCACGY
21085 P A A CGCGCCGAGGACGGTGGCTCACGY
21085 T G A CAGGCGTGAGCCACCGCGCCCGGCCGAAAATCTGTCCTCTCTTACACAA
21085 T A A CAGGCGTGAGCCACCGTGCCCGGCCGAAAATCTGTCCTCTCTTACACAA
GGATTTCAAATTGAGTGCACTCGAGGTATTGTGTAAGAGAGGACAGATTTTCGGCCGGGC[GA]CGGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGC
21085 IS [GA] TGAGGTGGGTGGATCACGAGGT
4766 I S GGGGAGAAGAAGTCTCCCTAGCCTTTTAAGCTTGGTATTTTCTAATCTA
4766 P A S CGCGCCGAGGTATTTGACTGTATAGGGTAATATCGTGY
4766 P G S CGCGCCGAGGCATTTGACTGTATAGGGTAATATCGTY
4766 T A S AAGGCACGATATTACCCTATACAGTCAAATAAGATTAGAAAATACCAAGCTTAAAAGGCTAGGGAGACTTCTTCTCCCCAC
4766 T G S AAGGCACGATATTACCCTATACAGTCAAATGAGATTAGAAAATACCAAGCTTAAAAGGCTAGGGAGACTTCTTCTCCCCAC
AGCCTCATCACAGCATCATCAAGGCACGATATTACCCTATACAGTCAAAT[AG]AGATTAGAAAATACCAAGCTTAAAAGGCTAGGGAGACTTCTTCTCCCCAC
4766 IS [AG]
4805 I S GAAAATCTGGGATTGAGAGGTTGATGAATGAAAATTAATCCTTTCACTTTC
4805 P A S CGCGCCGAGGTTTGTATATAGGTTTGCAATAATCAGGY
4805 P C S CGCGCCGAGGGTTGTATATAGGTTTGCAATAATCAGGY
4805 T A S CTGACCTGATTATTGCAAACCTATATACAAAAAAGTGAAAGGATTAATTTTCATTCATCAACCTCTCAATCCCAGATTTTC
4805 T C S CTGACCTGATTATTGCAAACCTATATACAACAAAGTGAAAGGATTAATTTTCATTCATCAACCTCTCAATCCCAGATTTTC
CATGACCTTAAAACTCCACTCTGACCTGATTATTGCAAACCTATATACAA[AC]AAAGTGAAAGGATTAATTTTCATTCATCAACCTCTCAATCCCAGATTTTC
4805 IS [AC]
6942 I A GGATCAGAGGCTAAGTTCGACTACATTGAAATGGCC
6942 P G A CGCGCCGAGGGTCGCTCATTAGGAGGAGAY
6942 P T A CGCGCCGAGGTTCGCTCATTAGGAGGAGAY
6942 T G A CCGGCTCTCCTCCTAATGAGCGACGCCATTTCAATGTAGTCGAACTTAGCCTCTGATCCTT
6942 T T A CCGGCTCTCCTCCTAATGAGCGAAGCCATTTCAATGTAGTCGAACTTAGCCTCTGATCCTT
GATAGGGAAAGTTAAGGATCAGAGGCTAAGTTCGACTACATTGAAATGGC[GT]TCGCTCATTAGGAGGAGAGCCGGGATGGGAGCCCAGGCCTGCTAACT
6942 IS [GT] GCC
6949 I A CCCTGTGGCCACGGGATCTCACTGGT
6949 P C A CGCGCCGAGGCCCCCTCTTCAGGCA
6949 P A A CGCGCCGAGGACCCCTCTTCAGGCAC
6949 T C A CAAGGTGCCTGAAGAGGGGGCCAGTGAGATCCCGTGGCCACAGGGAC
6949 T A A CAAGGTGCCTGAAGAGGGGTCCAGTGAGATCCCGTGGCCACAGGGAC
CTTCCTGCAGAGATGCCTCTGGAGTCCCTGTGGCCACGGGATCTCACTGG[CA]CCCCTCTTCAGGCACCTTGATGGGGCTCAGTGGGGCCAGGCCGAAGG
6949 IS [CA] GTG
6994 I A GAGAGGCCTCGCTTCACCACACACGCT
6994 P G A CGCGCCGAGGGTCAGAGGAGGGCGGY
6994 P A A CGCGCCGAGGATCAGAGGAGGGCGGY
6994 T G A CGGCCCGCCCTCCTCTGACGCGTGTGTGGTGAAGCGAGGCCTCTCAG
6994 T A A CGGCCCGCCCTCCTCTGATGCGTGTGTGGTGAAGCGAGGCCTCTCAG
CAGCACCACGGGAAGGAAGGTCCTGAGAGGCCTCGCTTCACCACACACGC[GA]TCAGAGGAGGGCGGGCCGGTGAGCTGAGCTCCTGCGTGAGAGCGG
6994 IS [GA] GAGCT
6998 I A TTTTAAAAGTTATGTCTTCAGAGAAAAAAAGATTCATTTTCTCATTTTAAT
6998 P A A CGCGCCGAGGACCAATTAAATATTCTGAGTGAGACTAA
6998 P G A CGCGCCGAGGGCCAATTAAATATTCTGAGTGAGAC
6998 T A A GTGATTAGTCTCACTCAGAATATTTAATTGGTTTAAAATGAGAAAATGAATCTTTTTTTCTCTGAAGACATAACTTTTAAAA
6998 T G A GTGATTAGTCTCACTCAGAATATTTAATTGGCTTAAAATGAGAAAATGAATCTTTTTTTCTCTGAAGACATAACTTTTAAAA
TTTTAAAAGTTATGTCTTCAGAGAAAAAAAGATTCATTTTCTCATTTTAA[AG]CCAATTAAATATTCTGAGTGAGACTAATCACTCATTTGCCTACGACCTTT
6998 IS [AG]
7000 I S GTGGTGGGGCCAAGATGCAAACAAAGGCA
7000 P A S CGCGCCGAGGTGTCTAACTCCAGTCTTTGTTTG
7000 P G S CGCGCCGAGGCGTCTAACTCCAGTCTTTGTTT
7000 T A S TTTGCAAACAAAGACTGGAGTTAGACAGCCTTTGTTTGCATCTTGGCCCCACCACGA
7000 T G S TTTGCAAACAAAGACTGGAGTTAGACGGCCTTTGTTTGCATCTTGGCCCCACCACGA
GCGTACTGTGTGTGCGGCTGTGGTTTTGCAAACAAAGACTGGAGTTAGAC[AG]GCCTTTGTTTGCATCTTGGCCCCACCACGAGCTGTGCTACTGTAGGCA
7000 IS [AG] AG
7014 I S CATTGGCCTGGCCCTGTACGTGCACTT
7014 P G S CGCGCCGAGGCTGTCATCTCCTTGGTCAC
7014 P C S CGCGCCGAGGGTGTCATCTCCTTGGTCAC
7014 T G S GAGGGTGACCAAGGAGATGACAGAGTGCACGTACAGGGCCAGGCCAATGGG
7014 T C S GAGGGTGACCAAGGAGATGACACAGTGCACGTACAGGGCCAGGCCAATGGG
GGTCCTGTGGTGGAGAAGGCCTGGAGCAGAGGGTGACCAAGGAGATGACA[GC]AGTGCACGTACAGGGCCAGGCCAATGGGAGTGGGAACCCTTGGGAG
7014 IS [GC] AGGG
7017 I S CCCTGCCTGCCCCTGAACACACGTCA
7017 P A S CGCGCCGAGGTGTGTTCATGTGTGCATTCC
7017 P G S CGCGCCGAGGCGTGTTCATGTGTGCATTC
7017 T A S CTTGGGAATGCACACATGAACACGACGTGTGTTCAGGGGCAGGCAGGGGA
7017 T G S CTTGGGAATGCACACATGAACACGGACGTGTGTTCAGGGGCAGGCAGGGGA
GCAGGTGCATGAGAGGCAGCAGCTCTCCTTGGGAATGCACACATGAACAC[AG]GACGTGTGTTCAGGGGCAGGCAGGGGAGACACGCGGCAGAGGACAG
7017 IS [AG] GTCC
7032 I S CCAGCGCTCACCTCTGCCTGTGCTTT
7032 P G S CGCGCCGAGGCCCCTCATCCACATCG
7032 P T S CGCGCCGAGGACCCTCATCCACATCGC
7032 T G S ACTTGCGATGTGGATGAGGGGAAGCACAGGCAGAGGTGAGCGCTGGGT
7032 T T S ACTTGCGATGTGGATGAGGGTAAGCACAGGCAGAGGTGAGCGCTGGGT
KIAA0637

FIGURE 129E

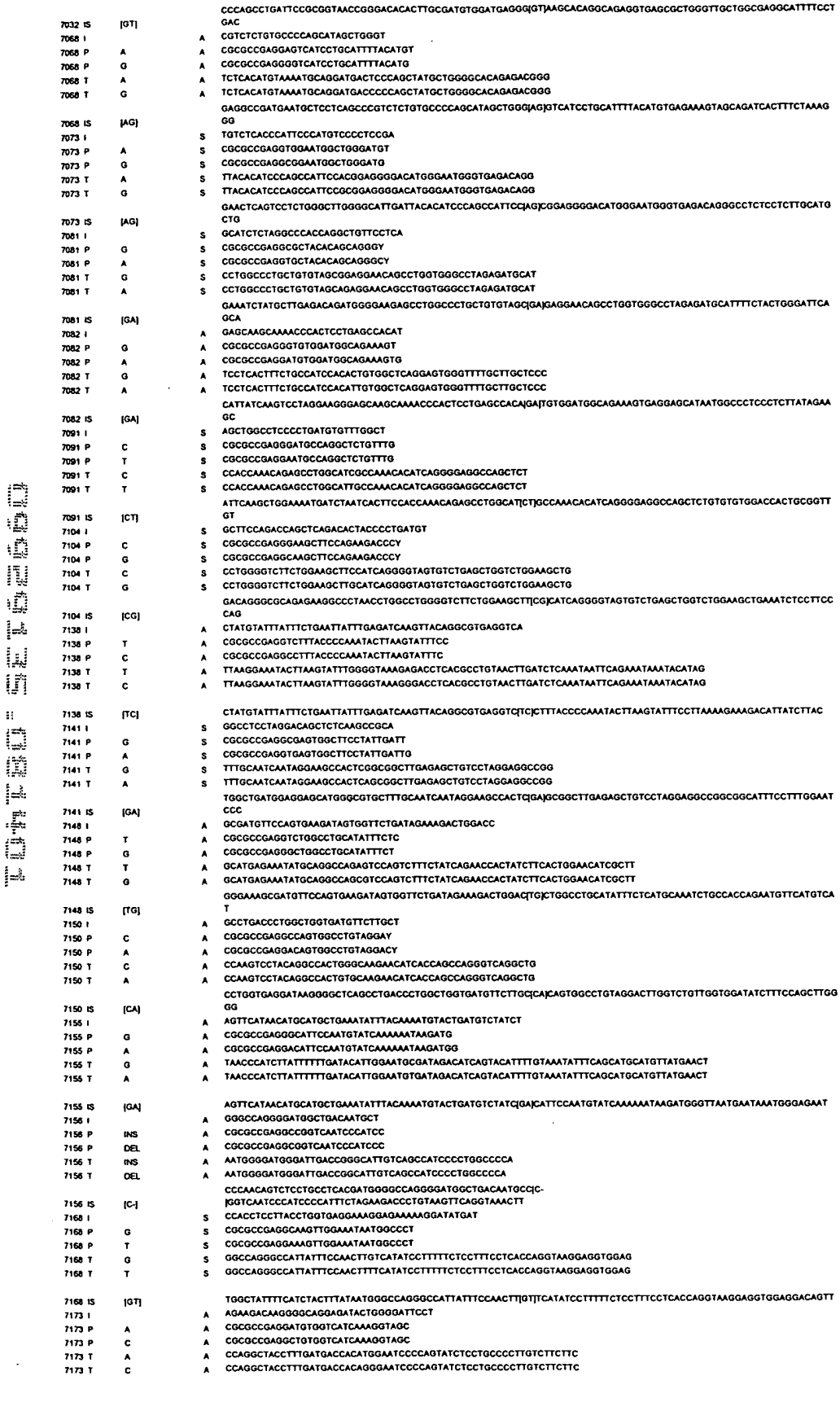

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7032 IS [GT] GAC
7068 I A CGTCTCTGTGCCCCAGCATAGCTGGGT
7068 P A A CGCGCCGAGGAGTCATCCTGCATTTTACATGT
7068 P G A CGCGCCGAGGGGTCATCCTGCATTTTACATG
7068 T A A TCTCACATGTAAAATGCAGGATGACTCCCAGCTATGCTGGGGCACAGAGACGGG
7068 T G A TCTCACATGTAAAATGCAGGATGACCCCCAGCTATGCTGGGGCACAGAGACGGG
GAGGCCGATGAATGCTCCTCAGCCCGTCTCTGTGCCCCAGCATAGCTGGG[AG]GTCATCCTGCATTTTACATGTGAGAAAGTAGCAGATCACTTTCTAAAG
7068 IS [AG] GG
7073 I S TGTCTCACCCATTCCCATGTCCCCTCCGA
7073 P A S CGCGCCGAGGTGGAATGGCTGGGATGT
7073 P G S CGCGCCGAGGCGGAATGGCTGGGATG
7073 T A S TTACACATCCCAGCCATTCCACGGAGGGGACATGGGAATGGGTGAGACAGG
7073 T G S TTACACATCCCAGCCATTCCGCGGAGGGGACATGGGAATGGGTGAGACAGG
GAACTCAGTCCTCTGGGCTTGGGGCATTGATTACACATCCCAGCCATTCC[AG]CGGAGGGGACATGGGAATGGGTGAGACAGGGCCTCTCCTCTTGCATG
7073 IS [AG] CTG
7081 I S GCATCTCTAGGCCCACCAGGCTGTTCCTCA
7081 P G S CGCGCCGAGGCGCTACACAGCAGGGY
7081 P A S CGCGCCGAGGTGCTACACAGCAGGGCY
7081 T G S CCTGGCCCTGCTGTGTAGCGGAGGAACAGCCTGGTGGGCCTAGAGATGCAT
7081 T A S CCTGGCCCTGCTGTGTAGCAGAGGAACAGCCTGGTGGGCCTAGAGATGCAT
GAAATCTATGCTTGAGACAGATGGGGAAGAGCCTGGCCCTGCTGTGTAGC[GA]GAGGAACAGCCTGGTGGGCCTAGAGATGCATTTTCTACTGGGATTCA
7081 IS [GA] GCA
7082 I A GAGCAAGCAAAACCCACTCCTGAGCCACAT
7082 P G A CGCGCCGAGGGTGTGGATGGCAGAAAGT
7082 P A A CGCGCCGAGGATGTGGATGGCAGAAAGTG
7082 T G A TCCTCACTTTCTGCCATCCACACTGTGGCTCAGGAGTGGGTTTTGCTTGCTCCC
7082 T A A TCCTCACTTTCTGCCATCCACATTGTGGCTCAGGAGTGGGTTTTGCTTGCTCCC
CATTATCAAGTCCTAGGAAGGGAGCAAGCAAAACCCACTCCTGAGCCACA[GA]TGTGGATGGCAGAAAGTGAGGAGCATAATGGCCCTCCCTCTTATAGAA
7082 IS [GA] GC
7091 I S AGCTGGCCTCCCCTGATGTGTTTGGCT
7091 P C S CGCGCCGAGGGATGCCAGGCTCTGTTTG
7091 P T S CGCGCCGAGGAATGCCAGGCTCTGTTTG
7091 T C S CCACCAAACAGAGCCTGGCATCGCCAAACACATCAGGGGAGGCCAGCTCT
7091 T T S CCACCAAACAGAGCCTGGCATTGCCAAACACATCAGGGGAGGCCAGCTCT
ATTCAAGCTGGAAAATGATCTAATCACTTCCACCAAACAGAGCCTGGCAT[CT]GCCAAACACATCAGGGGAGGCCAGCTCTGTGTGTGGACCACTGCGGTT
7091 IS [CT] GT
7104 I S GCTTCCAGACCAGCTCAGACACTACCCCTGATGT
7104 P C S CGCGCCGAGGGAAGCTTCCAGAAGACCCY
7104 P G S CGCGCCGAGGCAAGCTTCCAGAAGACCCY
7104 T C S CCTGGGGTCTTCTGGAAGCTTCCATCAGGGGTAGTGTCTGAGCTGGTCTGGAAGCTG
7104 T G S CCTGGGGTCTTCTGGAAGCTTGCATCAGGGGTAGTGTCTGAGCTGGTCTGGAAGCTG
GACAGGGCGCAGAGAAGGCCCTAACCTGGCCTGGGGTCTTCTGGAAGCTT[CG]CATCAGGGGTAGTGTCTGAGCTGGTCTGGAAGCTGAAATCTCCTTCC
7104 IS [CG] CAG
7138 I A CTATGTATTTATTTCTGAATTATTTGAGATCAAGTTACAGGCGTGAGGTCA
7138 P T A CGCGCCGAGGTCTTTACCCCAAATACTTAAGTATTTCC
7138 P C A CGCGCCGAGGCCTTTACCCCAAATACTTAAGTATTTC
7138 T T A TTAAGGAAATACTTAAGTATTTGGGGTAAAGGAGACCTCACGCCTGTAACTTGATCTCAAATAATTCAGAAATAAATACATAG
7138 T C A TTAAGGAAATACTTAAGTATTTGGGGTAAAGGGACCTCACGCCTGTAACTTGATCTCAAATAATTCAGAAATAAATACATAG
CTATGTATTTATTTCTGAATTATTTGAGATCAAGTTACAGGCGTGAGGTC[TC]CTTTACCCCAAATACTTAAGTATTTCCTTAAAAGAAAGACATTATCTTAC
7138 IS [TC]
7141 I S GGCCTCCTAGGACAGCTCTCAAGCCGCA
7141 P G S CGCGCCGAGGCGAGTGGCTTCCTATTGATT
7141 P A S CGCGCCGAGGTGAGTGGCTTCCTATTGATTG
7141 T G S TTTGCAATCAATAGGAAGCCACTCGGCGGCTTGAGAGCTGTCCTAGGAGGCCGG
7141 T A S TTTGCAATCAATAGGAAGCCACTCAGCGGCTTGAGAGCTGTCCTAGGAGGCCGG
TGGCTGATGGAGGAGCATGGGCGTGCTTTGCAATCAATAGGAAGCCACTC[GA]GCGGCTTGAGAGCTGTCCTAGGAGGCCGGCGGCATTTCCTTTGGAAT
7141 IS [GA] CCC
7148 I A GCGATGTTCCAGTGAAGATAGTGGTTCTGATAGAAAGACTGGACC
7148 P T A CGCGCCGAGGTCTGGCCTGCATATTTCTC
7148 P G A CGCGCCGAGGGCTGGCCTGCATATTTCT
7148 T T A GCATGAGAAATATGCAGGCCAGAGTCCAGTCTTTCTATCAGAACCACTATCTTCACTGGAACATCGCTT
7148 T G A GCATGAGAAATATGCAGGCCAGCGTCCAGTCTTTCTATCAGAACCACTATCTTCACTGGAACATCGCTT
GGGAAAGCGATGTTCCAGTGAAGATAGTGGTTCTGATAGAAAGACTGGAC[TG]CTGGCCTGCATATTTCTCATGCAAATCTGCCACCAGAATGTTCATGTCA
7148 IS [TG] T
7150 I A GCCTGACCCTGGCTGGTGATGTTCTTGCT
7150 P C A CGCGCCGAGGCCAGTGGCCTGTAGGAY
7150 P A A CGCGCCGAGGACAGTGGCCTGTAGGACY
7150 T C A CCAAGTCCTACAGGCCACTGGGCAAGAACATCACCAGCCAGGGTCAGGCTG
7150 T A A CCAAGTCCTACAGGCCACTGTGCAAGAACATCACCAGCCAGGGTCAGGCTG
CCTGGTGAGGATAAGGGGCTCAGCCTGACCCTGGCTGGTGATGTTCTTGC[CA]CAGTGGCCTGTAGGACTTGGTCTGTTGGTGGATATCTTTCCAGCTTGG
7150 IS [CA] GG
7155 I A AGTTCATAACATGCATGCTGAAATATTTACAAAATGTACTGATGTCTATCT
7155 P G A CGCGCCGAGGGCATTCCAATGTATCAAAAAATAAGATG
7155 P A A CGCGCCGAGGACATTCCAATGTATCAAAAAATAAGATGG
7155 T G A TAACCCATCTTATTTTTTGATACATTGGAATGCGATAGACATCAGTACATTTTGTAAATATTTCAGCATGCATGTTATGAACT
7155 T A A TAACCCATCTTATTTTTTGATACATTGGAATGTGATAGACATCAGTACATTTTGTAAATATTTCAGCATGCATGTTATGAACT
AGTTCATAACATGCATGCTGAAATATTTACAAAATGTACTGATGTCTATC[GA]CATTCCAATGTATCAAAAAATAAGATGGGTTAATGAATAAATGGGAGAAT
7155 IS [GA]
7156 I A GGGCCAGGGGATGGCTGACAATGCT
7156 P INS A CGCGCCGAGGCCGGTCAATCCCATCC
7156 P DEL A CGCGCCGAGGCGGTCAATCCCATCC
7156 T INS A AATGGGGATGGGATTGACCGGGCATTGTCAGCCATCCCCTGGCCCCA
7156 T DEL A AATGGGGATGGGATTGACCGGCATTGTCAGCCATCCCCTGGCCCCA
CCCAACAGTCTCCTGCCTCACGATGGGGCCAGGGGATGGCTGACAATGCC[C-
7156 IS [C-]]GGTCAATCCCATCCCCATTTCTAGAAGACCCTGTAAGTTCAGGTAAACTT
7168 I S CCACCTCCTTACCTGGTGAGGAAAGGAGAAAAAGGATATGAT
7168 P G S CGCGCCGAGGCAAGTTGGAAATAATGGCCCT
7168 P T S CGCGCCGAGGAAAGTTGGAAATAATGGCCCT
7168 T G S GGCCAGGGCCATTATTTCCAACTTGTCATATCCTTTTTCTCCTTTCCTCACCAGGTAAGGAGGTGGAG
7168 T T S GGCCAGGGCCATTATTTCCAACTTTTCATATCCTTTTTCTCCTTTCCTCACCAGGTAAGGAGGTGGAG
TGGCTATTTTCATCTACTTTATAATGGGCCAGGGCCATTATTTCCAACTT[GT]TCATATCCTTTTTCTCCTTTCCTCACCAGGTAAGGAGGTGGAGGACAGTT
7173 I A AGAAGACAAGGGGCAGGAGATACTGGGGATTCCT
7173 P A A CGCGCCGAGGATGTGGTCATCAAAGGTAGC
7173 P C A CGCGCCGAGGCTGTGGTCATCAAAGGTAGC
7173 T A A CCAGGCTACCTTTGATGACCACATGGAATCCCCAGTATCTCCTGCCCCTTGTCTTCTTC
7173 T C A CCAGGCTACCTTTGATGACCACAGGGAATCCCCAGTATCTCCTGCCCCTTGTCTTCTTC

FIGURE 129E

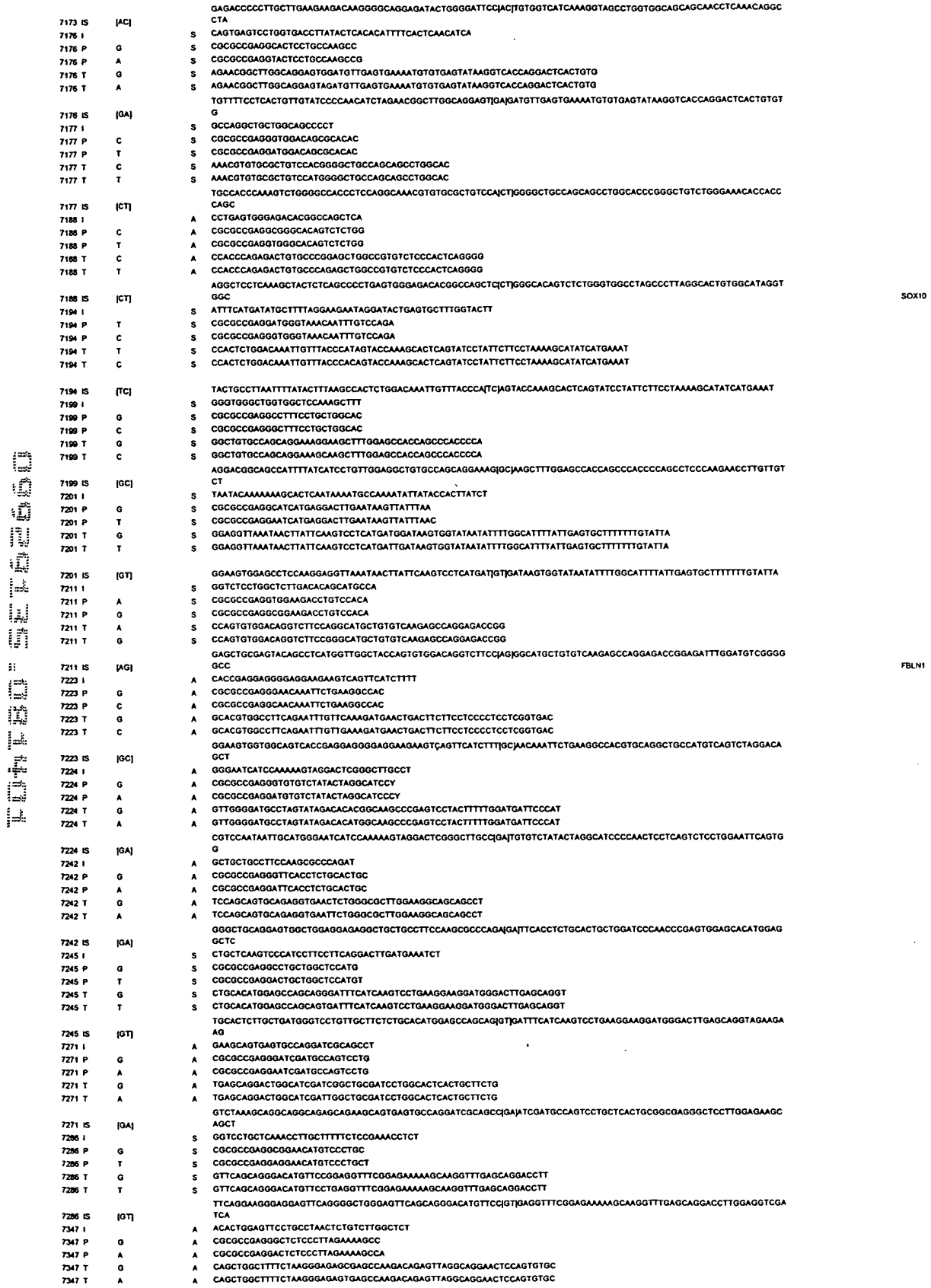
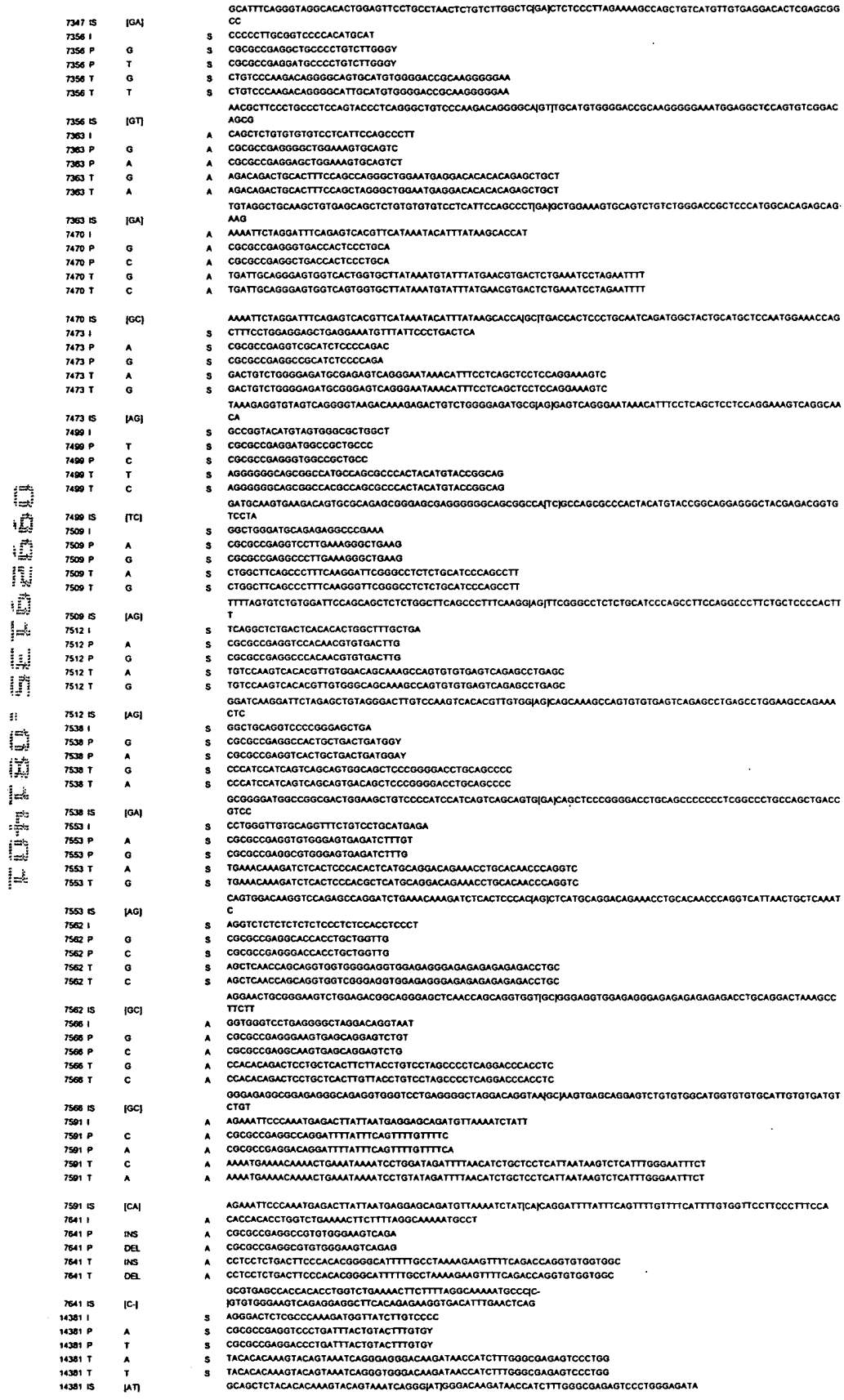
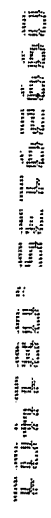

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7173 IS [AC] CTA
7176 I S CAGTGAGTCCTGGTGACCTTATACTCACACATTTTCACTCAACATCA
7176 P G S CGCGCCGAGGCACTCCTGCCAAGCC
7176 P A S CGCGCCGAGGTACTCCTGCCAAGCCG
7176 T G S AGAACGGCTTGGCAGGAGTGGATGTTGAGTGAAAATGTGTGAGTATAAGGTCACCAGGACTCACTGTG
7176 T A S AGAACGGCTTGGCAGGAGTAGATGTTGAGTGAAAATGTGTGAGTATAAGGTCACCAGGACTCACTGTG
TGTTTTCCTCACTGTTGTATCCCCAACATCTAGAACGGCTTGGCAGGAGT[GA]GATGTTGAGTGAAAATGTGTGAGTATAAGGTCACCAGGACTCACTGTGT
7176 IS [GA] G
7177 I S GCCAGGCTGCTGGCAGCCCCT
7177 P C S CGCGCCGAGGGTGGACAGCGCACAC
7177 P T S CGCGCCGAGGATGGACAGCGCACAC
7177 T C S AAACGTGTGCGCTGTCCACGGGGCTGCCAGCAGCCTGGCAC
7177 T T S AAACGTGTGCGCTGTCCATGGGGCTGCCAGCAGCCTGGCAC
TGCCACCCAAAGTCTGGGGCCACCCTCCAGGCAAACGTGTGCGCTGTCCA[CT]GGGGCTGCCAGCAGCCTGGCACCCGGGCTGTCTGGGAAACACCACC
7177 IS [CT] CAGC
7188 I A CCTGAGTGGGAGACACGGCCAGCTCA
7188 P C A CGCGCCGAGGCGGGCACAGTCTCTGG
7188 P T A CGCGCCGAGGTGGGCACAGTCTCTGG
7188 T C A CCACCCAGAGACTGTGCCCGGAGCTGGCCGTGTCTCCCACTCAGGGG
7188 T T A CCACCCAGAGACTGTGCCCAGAGCTGGCCGTGTCTCCCACTCAGGGG
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7188 IS [CT] GGC SOX10
7194 I S ATTTCATGATATGCTTTTAGGAAGAATAGGATACTGAGTGCTTTGGTACTT
7194 P T S CGCGCCGAGGATGGGTAAACAATTTGTCCAGA
7194 P C S CGCGCCGAGGGTGGGTAAACAATTTGTCCAGA
7194 T T S CCACTCTGGACAAATTGTTTACCCATAGTACCAAAGCACTCAGTATCCTATTCTTCCTAAAAGCATATCATGAAAT
7194 T C S CCACTCTGGACAAATTGTTTACCCACAGTACCAAAGCACTCAGTATCCTATTCTTCCTAAAAGCATATCATGAAAT
TACTGCCTTAATTTTATACTTTAAGCCACTCTGGACAAATTGTTTACCCA[TC]AGTACCAAAGCACTCAGTATCCTATTCTTCCTAAAAGCATATCATGAAAT
7194 IS [TC]
7199 I S GGGTGGGCTGGTGGCTCCAAAGCTTT
7199 P G S CGCGCCGAGGCCTTTCCTGCTGGCAC
7199 P C S CGCGCCGAGGGCTTTCCTGCTGGCAC
7199 T G S GGCTGTGCCAGCAGGAAAGGAAGCTTTGGAGCCACCAGCCCACCCCA
7199 T C S GGCTGTGCCAGCAGGAAAGCAAGCTTTGGAGCCACCAGCCCACCCCA
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7199 IS [GC] CT
7201 I S TAATACAAAAAAAGCACTCAATAAAATGCCAAAATATTATACCACTTATCT
7201 P G S CGCGCCGAGGCATCATGAGGACTTGAATAAGTTATTTAA
7201 P T S CGCGCCGAGGAATCATGAGGACTTGAATAAGTTATTTAAC
7201 T G S GGAGGTTAAATAACTTATTCAAGTCCTCATGATGGATAAGTGGTATAATATTTTGGCATTTTATTGAGTGCTTTTTTTGTATTA
7201 T T S GGAGGTTAAATAACTTATTCAAGTCCTCATGATTGATAAGTGGTATAATATTTTGGCATTTTATTGAGTGCTTTTTTTGTATTA
GGAAGTGGAGCCTCCAAGGAGGTTAAATAACTTATTCAAGTCCTCATGAT[GT]GATAAGTGGTATAATATTTTGGCATTTTATTGAGTGCTTTTTTTGTATTA
7201 IS [GT]
7211 I S GGTCTCCTGGCTCTTGACACAGCATGCCA
7211 P A S CGCGCCGAGGTGGAAGACCTGTCCACA
7211 P G S CGCGCCGAGGCGGAAGACCTGTCCACA
7211 T A S CCAGTGTGGACAGGTCTTCCAGGCATGCTGTGTGTCAAGAGCCAGGAGACCGG
7211 T G S CCAGTGTGGACAGGTCTTCCGGGCATGCTGTGTGTCAAGAGCCAGGAGACCGG
GAGCTGCGAGTACAGCCTCATGGTTGGCTACCAGTGTGGACAGGTCTTCC[AG]GGCATGCTGTGTCAAGAGCCAGGAGACCGGAGATTTGGATGTCGGGG
7211 IS [AG] GCC FBLN1
7223 I A CACCGAGGAGGGGAGGAAGAAGTCAGTTCATCTTTT
7223 P G A CGCGCCGAGGGAACAAATTCTGAAGGCCAC
7223 P C A CGCGCCGAGGCAACAAATTCTGAAGGCCAC
7223 T G A GCACGTGGCCTTCAGAATTTGTTGAAAGATGAACTGACTTCTTCCTCCCCTCCTCGGTGAC
7223 T C A GCACGTGGCCTTCAGAATTTGTTGAAAGATGAACTGACTTCTTCCTCCCCTCCTCGGTGAC
GGAAGTGGTGGCAGTCACCGAGGAGGGGAGGAAGAAGTCAGTTCATCTTT[GC]AACAAATTCTGAAGGCCACGTGCAGGCTGCCATGTCAGTCTAGGACA
7223 IS [GC] GCT
7224 I A GGGAATCATCCAAAAAGTAGGACTCGGGCTTGCCT
7224 P G A CGCGCCGAGGGTGTGTCTATACTAGGCATCCY
7224 P A A CGCGCCGAGGATGTGTCTATACTAGGCATCCCY
7224 T G A GTTGGGGATGCCTAGTATAGACACACGGCAAGCCCGAGTCCTACTTTTTGGATGATTCCCAT
7224 T A A GTTGGGGATGCCTAGTATAGACACATGGCAAGCCCGAGTCCTACTTTTTGGATGATTCCCAT
CGTCCAATAATTGCATGGGAATCATCCAAAAAGTAGGACTCGGGCTTGCC[GA]TGTGTCTATACTAGGCATCCCCAACTCCTCAGTCTCCTGGAATTCAGTG
7224 IS [GA] G
7242 I A GCTGCTGCCTTCCAAGCGCCCAGAT
7242 P G A CGCGCCGAGGGTTCACCTCTGCACTGC
7242 P A A CGCGCCGAGGATTCACCTCTGCACTGC
7242 T G A TCCAGCAGTGCAGAGGTGAACTCTGGGCGCTTGGAAGGCAGCAGCCT
7242 T A A TCCAGCAGTGCAGAGGTGAATTCTGGGCGCTTGGAAGGCAGCAGCCT
GGGCTGCAGGAGTGGCTGGAGGAGAGGCTGCTGCCTTCCAAGCGCCCAGA[GA]TTCACCTCTGCACTGCTGGATCCCAACCCGAGTGGAGCACATGGAG
7242 IS [GA] GCTC
7245 I S CTGCTCAAGTCCCATCCTTCCTTCAGGACTTGATGAAATCT
7245 P G S CGCGCCGAGGCCTGCTGGCTCCATG
7245 P T S CGCGCCGAGGACTGCTGGCTCCATGT
7245 T G S CTGCACATGGAGCCAGCAGGGATTTCATCAAGTCCTGAAGGAAGGATGGGACTTGAGCAGGT
7245 T T S CTGCACATGGAGCCAGCAGTGATTTCATCAAGTCCTGAAGGAAGGATGGGACTTGAGCAGGT
TGCACTCTTGCTGATGGGTCCTGTTGCTTCTCTGCACATGGAGCCAGCAG[GT]GATTTCATCAAGTCCTGAAGGAAGGATGGGACTTGAGCAGGTAGAAGA
7245 IS [GT] AG
7271 I A GAAGCAGTGAGTGCCAGGATCGCAGCCT
7271 P G A CGCGCCGAGGGATCGATGCCAGTCCTG
7271 P A A CGCGCCGAGGAATCGATGCCAGTCCTG
7271 T G A TGAGCAGGACTGGCATCGATCGGCTGCGATCCTGGCACTCACTGCTTCTG
7271 T A A TGAGCAGGACTGGCATCGATTGGCTGCGATCCTGGCACTCACTGCTTCTG
GTCTAAAGCAGGCAGGCAGAGCAGAAGCAGTGAGTGCCAGGATCGCAGCC[GA]ATCGATGCCAGTCCTGCTCACTGCGGCGAGGGCTCCTTGGAGAAGC
7271 IS [GA] AGCT
7286 I S GGTCCTGCTCAAACCTTGCTTTTTCTCCGAAACCTCT
7286 P G S CGCGCCGAGGCGGAACATGTCCCTGC
7286 P T S CGCGCCGAGGAGGAACATGTCCCTGCT
7286 T G S GTTCAGCAGGGACATGTTCCGGAGGTTTCGGAGAAAAAGCAAGGTTTGAGCAGGACCTT
7286 T T S GTTCAGCAGGGACATGTTCCTGAGGTTTCGGAGAAAAAGCAAGGTTTGAGCAGGACCTT
TTCAGGAAGGGAGGAGTTCAGGGGCTGGGAGTTCAGCAGGGACATGTTCC[GT]GAGGTTTCGGAGAAAAAGCAAGGTTTGAGCAGGACCTTGGAGGTCGA
7286 IS [GT] TCA
7347 I A ACACTGGAGTTCCTGCCTAACTCTGTCTTGGCTCT
7347 P G A CGCGCCGAGGGCTCTCCCTTAGAAAAGCC
7347 P A A CGCGCCGAGGACTCTCCCTTAGAAAAGCCA
7347 T G A CAGCTGGCTTTTCTAAGGGAGAGCGAGCCAAGACAGAGTTAGGCAGGAACTCCAGTGTGC
7347 T A A CAGCTGGCTTTTCTAAGGGAGAGTGAGCCAAGACAGAGTTAGGCAGGAACTCCAGTGTGC

FIGURE 129E


GCATTTCAGGGTAGGCACACTGGAGTTCCTGCCTAACTCTGTCTTGGCTC[GA]CTCTCCCTTAGAAAAGCCAGCTGTCATGTTGTGAGGACACTCGAGCGG
7347 tS [GA] CC
7356 I S CCCCCTTGCGGTCCCCACATGCAT
7356 P G S CGCGCCGAGGCTGCCCCTGTCTTGGGY
7356 P T S CGCGCCGAGGATGCCCCTGTCTTGGGY
7356 T G S CTGTCCCAAGACAGGGGCAGTGCATGTGGGGACCGCAAGGGGGAA
7356 T T S CTGTCCCAAGACAGGGGCATTGCATGTGGGGACCGCAAGGGGGAA
AACGCTTCCCTGCCCTCCAGTACCCTCAGGGCTGTCCCAAGACAGGGGCA[GT]TGCATGTGGGGACCGCAAGGGGGAAATGGAGGCTCCAGTGTCGGAC
7356 tS [GT] AGCG
7363 I A CAGCTCTGTGTGTCCTCATTCCAGCCCTT
7363 P G A CGCGCCGAGGGGCTGGAAAGTGCAGTC
7363 P A A CGCGCCGAGGAGCTGGAAAGTGCAGTCT
7363 T G A AGACAGACTGCACTTTCCAGCCAGGGCTGGAATGAGGACACACACAGAGCTGCT
7363 T A A AGACAGACTGCACTTTCCAGCTAGGGCTGGAATGAGGACACACACAGAGCTGCT
TGTAGGCTGCAAGCTGTGAGCAGCTCTGTGTGTGTCCTCATTCCAGCCCT[GA]GCTGGAAAGTGCAGTCTGTCTGGGACCGCTCCCATGGCACAGAGCAG
7363 tS [GA] AAG
7470 I A AAAATTCTAGGATTTCAGAGTCACGTTCATAAATACATTTATAAGCACCAT
7470 P G A CGCGCCGAGGGTGACCACTCCCTGCA
7470 P C A CGCGCCGAGGCTGACCACTCCCTGCA
7470 T G A TGATTGCAGGGAGTGGTCACTGGTGCTTATAAATGTATTTATGAACGTGACTCTGAAATCCTAGAATTTT
7470 T C A TGATTGCAGGGAGTGGTCAGTGGTGCTTATAAATGTATTTATGAACGTGACTCTGAAATCCTAGAATTTT
7470 tS [GC] AAAATTCTAGGATTTCAGAGTCACGTTCATAAATACATTTATAAGCACC[A|GC]TGACCACTCCCTGCAATCAGATGGCTACTGCATGCTCCAATGGAAACCAG
7473 I S CTTTCCTGGAGGAGCTGAGGAAATGTTTATTCCCTGACTCA
7473 P A S CGCGCCGAGGTCGCATCTCCCCAGAC
7473 P G S CGCGCCGAGGCCGCATCTCCCCAGA
7473 T A S GACTGTCTGGGGAGATGCGAGAGTCAGGGAATAAACATTTCCTCAGCTCCTCCAGGAAAGTC
7473 T G S GACTGTCTGGGGAGATGCGGGAGTCAGGGAATAAACATTTCCTCAGCTCCTCCAGGAAAGTC
TAAAGAGGTGTAGTCAGGGGTAAGACAAAGAGACTGTCTGGGGAGATGCG[AG]GAGTCAGGGAATAAACATTTCCTCAGCTCCTCCAGGAAAGTCAGGCAA
7473 tS [AG] CA
7499 I S GCCGGTACATGTAGTGGGCGCTGGCT
7499 P T S CGCGCCGAGGATGGCCGCTGCCC
7499 P C S CGCGCCGAGGGTGGCCGCTGCC
7499 T T S AGGGGGGCAGCGGCCATGCCAGCGCCCACTACATGTACCGGCAG
7499 T C S AGGGGGGCAGCGGCCACGCCAGCGCCCACTACATGTACCGGCAG
GATGCAAGTGAAGACAGTGCGCAGAGCGGGAGCGAGGGGGGCAGCGGCCA[TC]GCCAGCGCCCACTACATGTACCGGCAGGAGGGCTACGAGACGGTG
7499 tS [TC] TCCTA
7509 I S GGCTGGGATGCAGAGAGGCCCGAAA
7509 P A S CGCGCCGAGGTCCTTGAAAGGGCTGAAG
7509 P G S CGCGCCGAGGCCCTTGAAAGGGCTGAAG
7509 T A S CTGGCTTCAGCCCTTTCAAGGATTCGGGCCTCTCTGCATCCCAGCCTT
7509 T G S CTGGCTTCAGCCCTTTCAAGGGTTCGGGCCTCTCTGCATCCCAGCCTT
TTTTAGTGTCTGTGGATTCCAGCAGCTCTCTGGCTTCAGCCCTTTCAAGG[AG]TTCGGGCCTCTCTGCATCCCAGCCTTCCAGGCCCTTCTGCTCCCCACTT
7509 tS [AG] T
7512 I S TCAGGCTCTGACTCACACACTGGCTTTGCTGA
7512 P A S CGCGCCGAGGTCCACAACGTGTGACTTG
7512 P G S CGCGCCGAGGCCCACAACGTGTGACTTG
7512 T A S TGTCCAAGTCACACGTTGTGGACAGCAAAGCCAGTGTGTGAGTCAGAGCCTGAGC
7512 T G S TGTCCAAGTCACACGTTGTGGGCAGCAAAGCCAGTGTGTGAGTCAGAGCCTGAGC
GGATCAAGGATTCTAGAGCTGTAGGGACTTGTCCAAGTCACACGTTGTGG[AG]CAGCAAAGCCAGTGTGTGAGTCAGAGCCTGAGCCTGGAAGCCAGAAA
7512 tS [AG] CTC
7538 I S GGCTGCAGGTCCCCGGGAGCTGA
7538 P G S CGCGCCGAGGCCACTGCTGACTGATGGY
7538 P A S CGCGCCGAGGTCACTGCTGACTGATGGAY
7538 T G S CCCATCCATCAGTCAGCAGTGGCAGCTCCCGGGGACCTGCAGCCCC
7538 T A S CCCATCCATCAGTCAGCAGTGACAGCTCCCGGGGACCTGCAGCCCC
GCGGGGATGGCCGGCGACTGGAAGCTGTCCCCATCCATCAGTCAGCAGTG[GA]CAGCTCCCGGGGACCTGCAGCCCCCCCTCGGCCCTGCCAGCTGACC
7538 tS [GA] GTCC
7553 I S CCTGGGTTGTGCAGGTTTCTGTCCTGCATGAGA
7553 P A S CGCGCCGAGGTGTGGGAGTGAGATCTTTGT
7553 P G S CGCGCCGAGGCGTGGGAGTGAGATCTTTG
7553 T A S TGAAACAAAGATCTCACTCCCACACTCATGCAGGACAGAAACCTGCACAACCCAGGTC
7553 T G S TGAAACAAAGATCTCACTCCCACGCTCATGCAGGACAGAAACCTGCACAACCCAGGTC
CAGTGGACAAGGTCCAGAGCCAGGATCTGAAACAAAGATCTCACTCCCAC[AG]CTCATGCAGGACAGAAACCTGCACAACCCAGGTCATTAACTGCTCAAAT
7553 tS [AG] C
7562 I S AGGTCTCTCTCTCTCCCTCTCCACCTCCCT
7562 P G S CGCGCCGAGGCACCACCTGCTGGTTG
7562 P C S CGCGCCGAGGGACCACCTGCTGGTTG
7562 T G S AGCTCAACCAGCAGGTGGTGGGGAGGTGGAGAGGGAGAGAGAGAGAGACCTGC
7562 T C S AGCTCAACCAGCAGGTGGTCGGGAGGTGGAGAGGGAGAGAGAGAGAGACCTGC
AGGAACTGCGGGAAGTCTGGAGACGGCAGGGAGCTCAACCAGCAGGTGGT[GC]GGGAGGTGGAGAGGGAGAGAGAGAGAGACCTGCAGGACTAAAGCC
7562 tS [GC] TTCTT
7566 I A GGTGGGTCCTGAGGGGCTAGGACAGGTAAT
7566 P G A CGCGCCGAGGGAAGTGAGCAGGAGTCTGT
7566 P C A CGCGCCGAGGCAAGTGAGCAGGAGTCTG
7566 T G A CCACACAGACTCCTGCTCACTTCTTACCTGTCCTAGCCCCTCAGGACCCACCTC
7566 T C A CCACACAGACTCCTGCTCACTTGTTACCTGTCCTAGCCCCTCAGGACCCACCTC
GGGAGAGGCGGAGAGGGCAGAGGTGGGTCCTGAGGGGCTAGGACAGGTAA[GC]AAGTGAGCAGGAGTCTGTGTGGCATGGTGTGTGCATTGTGTGATGT
7566 tS [GC] CTGT
7591 I A AGAAATTCCCAAATGAGACTTATTAATGAGGAGCAGATGTTAAAATCTATT
7591 P C A CGCGCCGAGGCCAGGATTTTATTTCAGTTTTGTTTTC
7591 P A A CGCGCCGAGGACAGGATTTTATTTCAGTTTTGTTTTCA
7591 T C A AAAATGAAAACAAAACTGAAATAAAATCCTGGATAGATTTTAACATCTGCTCCTCATTAATAAGTCTCATTTGGGAATTTCT
7591 T A A AAAATGAAAACAAAACTGAAATAAAATCCTGTATAGATTTTAACATCTGCTCCTCATTAATAAGTCTCATTTGGGAATTTCT
7591 tS [CA] AGAAATTCCCAAATGAGACTTATTAATGAGGAGCAGATGTTAAAATCTAT[CA]CAGGATTTTATTTCAGTTTTGTTTTCATTTTGTGGTTCCTTCCCTTTCCA
7641 I A CACCACACCTGGTCTGAAAACTTCTTTTAGGCAAAAATGCCT
7641 P INS A CGCGCCGAGGCCGTGTGGGAAGTCAGA
7641 P DEL A CGCGCCGAGGCGTGTGGGAAGTCAGAG
7641 T INS A CCTCCTCTGACTTCCCACACGGGGCATTTTTGCCTAAAAGAAGTTTTCAGACCAGGTGTGGTGGC
7641 T DEL A CCTCCTCTGACTTCCCACACGGGCATTTTTGCCTAAAAGAAGTTTTCAGACCAGGTGTGGTGGC
GCGTGAGCCACCACACCTGGTCTGAAAACTTCTTTTAGGCAAAAATGCCC[C-
7641 tS [C-]]GTGTGGGAAGTCAGAGGAGGCTTCACAGAGAAGGTGACATTTGAACTCAG
14381 I S AGGGACTCTCGCCCAAAGATGGTTATCTTGTCCCC
14381 P A S CGCGCCGAGGTCCCTGATTTACTGTACTTTGTGY
14381 P T S CGCGCCGAGGACCCTGATTTACTGTACTTTGTGY
14381 T A S TACACACAAAGTACAGTAAATCAGGGAGGGACAAGATAACCATCTTTGGGCGAGAGTCCCTGG
14381 T T S TACACACAAAGTACAGTAAATCAGGGTGGGACAAGATAACCATCTTTGGGCGAGAGTCCCTGG
14381 tS [AT] GCAGCTCTACACACAAAGTACAGTAAATCAGGG[AT]GGGACAAGATAACCATCTTTGGGCGAGAGTCCCTGGGAGATA



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14418 I          A  CCAGCAGGGAAAGTCTTTTTTTGCTTTGACCCCAGATT
14418 P  A       A  CGCGCCGAGGATTCCTACACTTCAACTTCTGGY
14418 P  G       A  CGCGCCGAGGGTTCCTACACTTCAACTTCTGGY
14418 T  A       A  TCTACCAGAAGTTGAAGTGTAGGAATATCTGGGGTCAAAGCAAAAAAAGACTTTCCCTGCTGGGA
14418 T  G       A  TCTACCAGAAGTTGAAGTGTAGGAACATCTGGGGTCAAAGCAAAAAAAGACTTTCCCTGCTGGGA

14418 tS [AG]      CCTCCACCCCCCAGCGATTCAGAGTGGAATCATTACTTTTAACTTCCATTCCCAGCAGGGAAAGTCTTTTTTTGCTTTGACCCCAGAT[AG]TTCCTACACTTCA
                   ACTTCTGGTAGAAATTACTTATGCATAGCTACCTCCATCACAATCTCGGCTGACCAGCTCCCTGCTTCTGCCTAGAGCCTCTCTCAATCTTCTATGTGGCCTG
                   TGGCATT

14474 I          S  GCATATTTTGGACCACTCTCAAGCAGAGGGAT
14474 P  C       S  CGCGCCGAGGGCTTAACTTTATTAAATTCAAAGCAAACAY
14474 P  T       S  CGCGCCGAGGACTTAACTTTATTAAATTCAAAGCAAACAAGY
14474 T  C       S  GTTACTTGTTTGCTTTGAATTTAATAAAGTTAAGCTCCCTCTGCTTGAGAGTGGTCCAAAATATGCTA
14474 T  T       S  GTTACTTGTTTGCTTTGAATTTAATAAAGTTAAGTTCCCTCTGCTTGAGAGTGGTCCAAAATATGCTA

14474 tS [CT]      TGTCTCCTGTTAAAGTGTTACTTGTTTGCTTTGAATTTAATAAAGTTAAG[CT]TCCCTCTGCTTGAGAGTGGTCCAAAATATGCTAGGATTATTTCATATGAG
14726 I          A  GGTGCTGTGCAAGGGAAGCGCTGTGAGC
14726 P  T       A  CGCGCCGAGGTGACAGAGCAAAGCCAGY
14726 P  A       A  CGCGCCGAGGAGACAGAGCAAAGCCAGY
14726 T  T       A  ATGCCTGGCTTTGCTCTGTCACTCACAGCGCTTCCCTTGCACAGCACCTG
14726 T  A       A  ATGCCTGGCTTTGCTCTGTCTCTCACAGCGCTTCCCTTGCACAGCACCTG

14726 tS [TA]      TGATCCTGGCACTCGTCCTATCAGGTGCTGTGCAAGGGAAGCGCTGTGAG[TA]GACAGAGCAAAGCCAGGCATCTTTCAGTCAAGGATTTTCTCTCCAGTT
                   GT
14728 I          A  CGAGGAGATGCCACCAAACAACCCACAGCA
14728 P  T       A  CGCGCCGAGGTAGCGCAGCCCTCACY
14728 P  C       A  CGCGCCGAGGCAGCGCAGCCCTCAY
14728 T  T       A  CAGGGTGAGGGCTGCGCTAGCTGTGGGTTGTTTGGTGGCATCTCCTCGCC
14728 T  C       A  CAGGGTGAGGGCTGCGCTGGCTGTGGGTTGTTTGGTGGCATCTCCTCGCC

14728 tS [TC]      GGTGGGAGGAGCCTCGCCTGGCGAGGAGATGCCACCAAACAACCCACAGC[TC]AGCGCAGCCCTCACCCTGGCCTGGGATACCACCGCCTGCGCCCCCA
                   ACAC
14730 I          S  GTTAACATCCTTTGGAAAACCCATAGCAAAATAACATTTTGAGAAAACACT
14730 P  C       S  CGCGCCGAGGGCACTTTGGCTACCCACY
14730 P  T       S  CGCGCCGAGGACACTTTGGCTACCCACTY
14730 T  C       S  CTTCAGTGGGTAGCCAAAGTGCGTGTTTTCTCAAAATGTTATTTTGCTATGGGTTTTCCAAAGGATGTTAAC
14730 T  T       S  CTTCAGTGGGTAGCCAAAGTGTGTGTTTTCTCAAAATGTTATTTTGCTATGGGTTTTCCAAAGGATGTTAAC

14730 tS [CT]      ATGCTGACCTGTGACTGTTTTCTCCTTAACTTCAGTGGGTAGCCAAAGTG[CT]GTGTTTTCTCAAAATGTTATTTTGCTATGGGTTTTCCAAAGGATGTTAAC
14739 I          S  GGGAGACTGTGGTGCTGTCTGCAGCCTA
14739 P  G       S  CGCGCCGAGGCAGCCGTGATCCCACY
14739 P  A       S  CGCGCCGAGGTAGCCGTGATCCCACCY
14739 T  G       S  CAAGGGTGGGATCACGGCTGAGGCTGCAGACAGCACCACAGTCTCCCGC
14739 T  A       S  CAAGGGTGGGATCACGGCTAAGGCTGCAGACAGCACCACAGTCTCCCGC

14739 tS [GA]      GTGGTGTAGCATTGAGCTGCTCAGTTCGTGGCAAGGGTGGGATCACGGCT[GA]AGGCTGCAGACAGCACCACAGTCTCCCGCTGCGAGGGTCGGTTGGT
                   CTAA
14779 I          A  GGAAGAGCTGATTTTTGATCTTCATCAAAATGAGGCTTCAGTGGCT
14779 P  A       A  CGCGCCGAGGAAATACTAACAGCCAATCCTCC
14779 P  G       A  CGCGCCGAGGGAATACTAACAGCCAATCCTCC
14779 T  A       A  ACAAGGAGGATTGGCTGTTAGTATTTGCCACTGAAGCCTCATTTTGATGAAGATCAAAAATCAGCTCTTCCTA
14779 T  G       A  ACAAGGAGGATTGGCTGTTAGTATTCGCCACTGAAGCCTCATTTTGATGAAGATCAAAAATCAGCTCTTCCTA

14779 tS [AG]      gctaggaagagctgatttttgatcttcatcaaaatgaggcttcagtggc[AG]atactaacagccaatcctcctgtaaatttctgttgatttccttcttatt
14812 I          A  TGTGCATTTTTTGTCTTTAATGTGTTTTTTAGTTGTCATAAAAAAACACAA
14812 P  T       A  CGCGCCGAGGTAACACCAAAATTTACTATCTTAGTCATTTT
14812 P  C       A  CGCGCCGAGGCAACACCAAAATTTACTATCTTAGTCATT
14812 T  T       A  TTTAAAAATGACTAAGATAGTAAATTTTGGTGTTATGTGTTTTTTTATGACAACTAAAAAACACATTAAAGACAAAAAATGCACA
14812 T  C       A  TTTAAAAATGACTAAGATAGTAAATTTTGGTGTTGTGTGTTTTTTTATGACAACTAAAAAACACATTAAAGACAAAAAATGCACA

14812 tS [TC]      tgtgcatttttgtctttaatgtgttttttagttgtcataaaaaaacaca[TC]aacaccaaaatttactatcttagtcatttt
14813 I          A  GATGCTGCTTTTCCTGTCATTATTATTCCCTTCCTCCCTCTCATAT
14813 P  G       A  CGCGCCGAGGGTGACTCTAGGTCAGTTCCC
14813 P  A       A  CGCGCCGAGGATGACTCTAGGTCAGTTCCC
14813 T  G       A  TGAAGGGAACTGACCTAGAGTCACTATGAGAGGGAGGAAGGGAATAATAATGACAGGAAAAGCAGCATCCC
14813 T  A       A  TGAAGGGAACTGACCTAGAGTCATTATGAGAGGGAGGAAGGGAATAATAATGACAGGAAAAGCAGCATCCC

14813 tS [GA]      tgggggatgctgcttttccctgtcatattatttccctttcctccctctcatat[GA]tgactctaggtcagttccctttcaattctccagggacccctaaagggccataa
14850 I          A  TGGTGAAAGCAAGATTTGCCTGATGGGAACCCTT
14850 P  G       A  CGCGCCGAGGGTGCTGGGTCAGGCTY
14850 P  A       A  CGCGCCGAGGATGCTGGGTCAGGCTY
14850 T  G       A  TCAGAGCCTGACCCAGCACAGGGTTCCCATCAGGCAAATCTTGCTTTCACCAGC
14850 T  A       A  TCAGAGCCTGACCCAGCATAGGGTTCCCATCAGGCAAATCTTGCTTTCACCAGC

14850 tS [GA]      ggtgggagggagagacagctggtgaaagcaagattgcctgatgggaacccct[GA]tgctgggtcaggctctgagtacccacctggagcatttctggaggacttgt
14878 I          A  AGTGCCCAGAACAGATTGATAGCTATCAGGAAATCTTA
14878 P  C       A  CGCGCCGAGGCGTATGTATGAATCTCTCACAAGT
14878 P  T       A  CGCGCCGAGGTGTATGTATGAATCTCTCACAAGTC
14878 T  C       A  AAAAGACTTGTGAGAGATTCATACATACGAAGATTTCCTGATAGCTATCAATCTGTTCTGGGCACTAA
14878 T  T       A  AAAAGACTTGTGAGAGATTCATACATACAAAGATTTCCTGATAGCTATCAATCTGTTCTGGGCACTAA

14878 tS [CT]      ccactgtatcctagtgcccagaccagattgatagctatcaggaaatctt[CT]gtatgtatgaatctctcacaagtcttttctaccaactgcagcctatgagct
14893 I          S  CCCCCCACTGCATTCAAGGCCCTCCT
14893 P  C       S  CGCGCCGAGGGTTGTGAGGGCACAAGC
14893 P  T       S  CGCGCCGAGGATTGTGAGGGCACAAGC
14893 T  C       S  GGTGGCTTGTGCCCTCACAACGGAGGGCCTTGAATGCAGTGGGGGGTT
14893 T  T       S  GGTGGCTTGTGCCCTCACAATGGAGGGCCTTGAATGCAGTGGGGGGTT

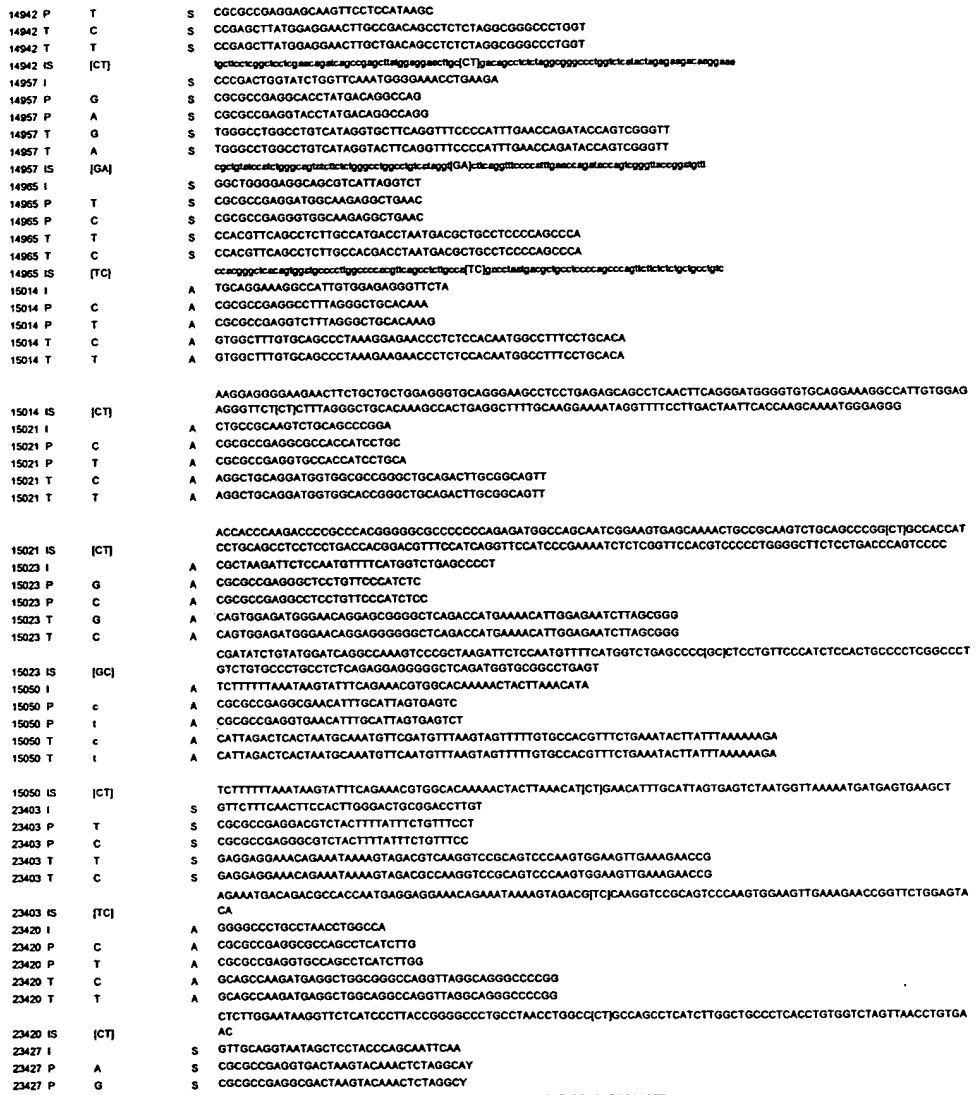
14893 tS [CT]      catgtccaaggcctggcgggcccagggaeggtggctgtgtgccctcacaa[CT]ggagggccttgaatgcagtggggggttcccttcaagtaccttggccgatc
14908 I          A  GGTAGGCAGTGGGGGCCATCAGAGAAATATACCTCTTATTACT
14908 P  C       A  CGCGCCGAGGCACCTGGAAATTACCACCC
14908 P  A       A  CGCGCCGAGGAACCTGGAAATTACCACCC
14908 T  C       A  TCCAGGGTGGTAATTTCCAGGTGGTAATAAGAGGTATATTTCTCTGATGGCCCCCACTGCCTACCTG
14908 T  A       A  TCCAGGGTGGTAATTTCCAGGTTGTAATAAGAGGTATATTTCTCTGATGGCCCCCACTGCCTACCTG

14908 tS [CA]      taagcccaggtaggcagtgggggccctcagagaaaatatacctcttattac[CA]acctggaaattaccacccctggatttaccgcagccaaaacccctgcttgtgt
14927 I          S  CTAGGAAAGCTTTCTTAGCCAACAAAAAATTCTCTTTTGAATCCTGAATAA
14927 P  G       S  CGCGCCGAGGCAAAAGTCTACCCCTGAGTG
14927 P  A       S  CGCGCCGAGGTAAAAGTCTACCCCTGAGTGC
14927 T  G       S  GAATGCACTCAGGGGTAGACTTTTGTATTCAGGATTCAAAAGAGAATTTTTTGTTGGCTAAGAAAGCTTTCCTAG
14927 T  A       S  GAATGCACTCAGGGGTAGACTTTTATATTCAGGATTCAAAAGAGAATTTTTTGTTGGCTAAGAAAGCTTTCCTAG

14927 tS [GA]      cacacaggatctccaggcagatgggagaatgcactcactcagggtagactttt[GA]attcaggattcaaaagagaatttttgttggctaagaaagctttcctag
14928 I          A  AGCAGAGAGGAGGCTATGATCACCATTAATAGTGTTCATTGAGTTCATCA
14928 P  C       A  CGCGCCGAGGCTGGCTGCCATGCAG
14928 P  T       A  CGCGCCGAGGTTGGCTGCCATGCAG
14928 T  C       A  AGGTCTGCATGGCAGCCAGGATGAACTCAATGAACACTATTAATGGTGATCATAGCCTCCTCTCTGCTC
14928 T  T       A  AGGTCTGCATGGCAGCCAAGATGAACTCAATGAACACTATTAATGGTGATCATAGCCTCCTCTCTGCTC

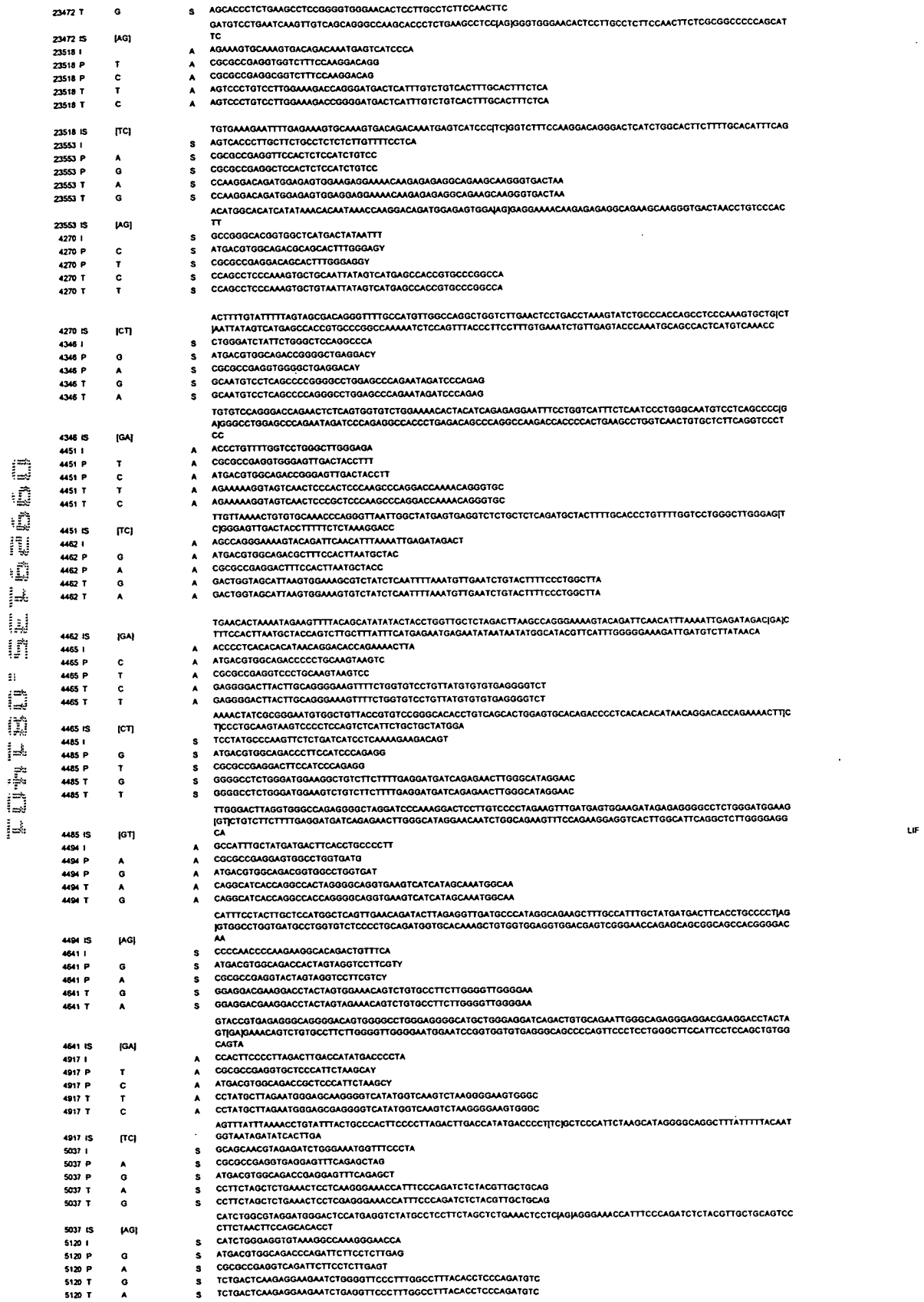
14928 tS [CT]      gagcagagaggaggctatgatcaccattaatagtgttcattgagttcatc[CT]ggctgccatgcagcctcagcctgctctcagctggtgctcctcctgtac
14942 I          S  CAGGGCCCGCCTAGAGAGGCTGTCT
14942 P  C       S  CGCGCCGAGGGGCAAGTTCCTCCATAAGC
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FIGURE 129E



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FIGURE 129E



LIF

FIGURE 129E

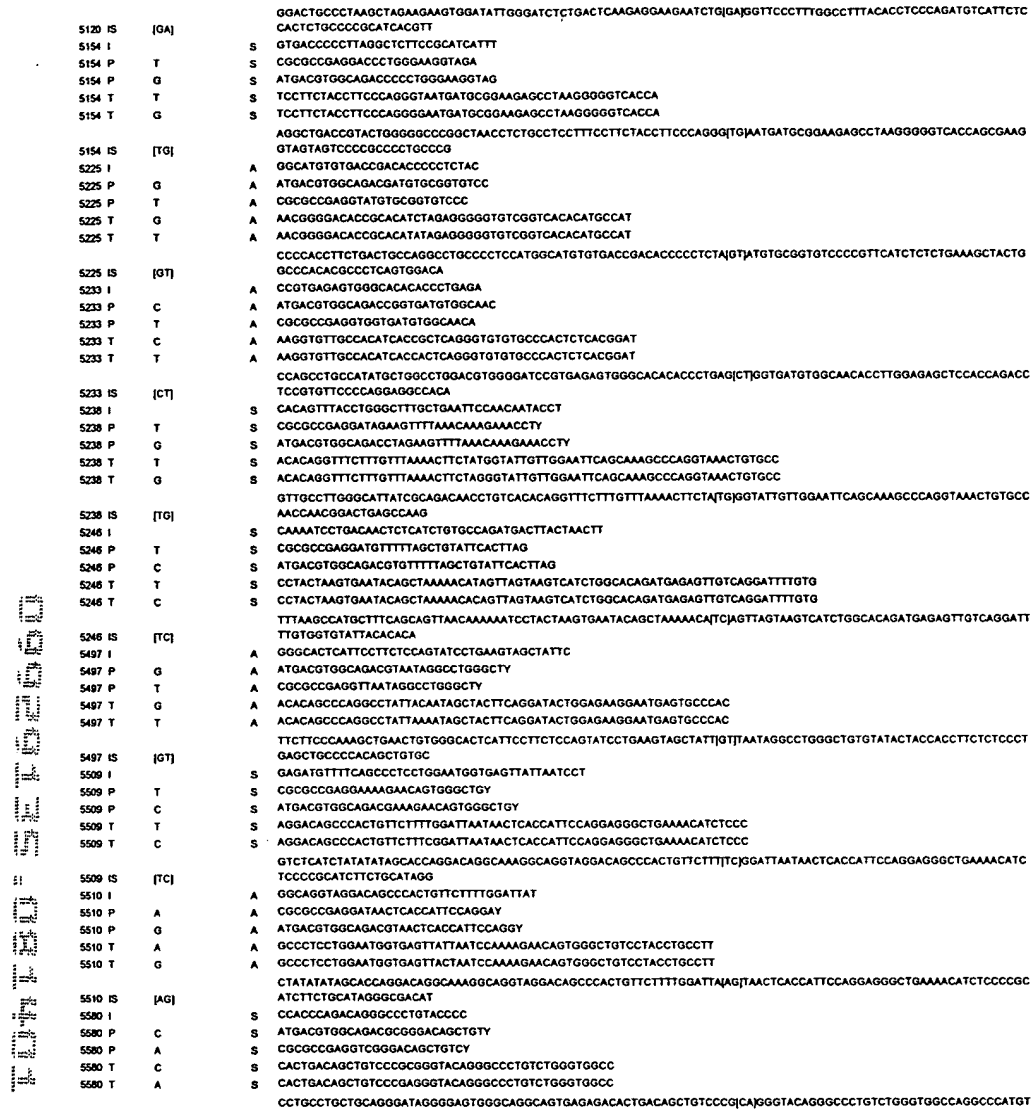

GGACTGCCCTAAGCTAGAAGAAGTGGATATTGGGATCTCTGACTCAAGAGGAAGAATCTG[GA]GGTTCCCTTTGGCCTTTACACCTCCCAGATGTCATTCTC
5120 IS [GA] CACTCTGCCCCGCATCACGTT
5154 I S GTGACCCCCTTAGGCTCTTCCGCATCATTT
5154 P T S CGCGCCGAGGACCCTGGGAAGGTAGA
5154 P G S ATGACGTGGCAGACCCCCTGGGAAGGTAG
5154 T T S TCCTTCTACCTTCCCAGGGTAATGATGCGGAAGAGCCTAAGGGGGTCACCA
5154 T G S TCCTTCTACCTTCCCAGGGGAATGATGCGGAAGAGCCTAAGGGGGTCACCA
AGGCTGACCGTACTGGGGGCCCGGCTAACCTCTGCCTCCTTTCCTTCTACCTTCCCAGGG[TG]AATGATGCGGAAGAGCCTAAGGGGGTCACCAGCGAAG
5154 IS [TG] GTAGTAGTCCCCGCCCCTGCCCG
5225 I A GGCATGTGTGACCGACACCCCCTCTAC
5225 P G A ATGACGTGGCAGACGATGTGCGGTGTCC
5225 P T A CGCGCCGAGGTATGTGCGGTGTCCC
5225 T G A AACGGGGACACCGCACATCTAGAGGGGGTGTCGGTCACACATGCCAT
5225 T T A AACGGGGACACCGCACATATAGAGGGGGTGTCGGTCACACATGCCAT
CCCCACCTTCTGACTGCCAGGCCTGCCCCCTCCATGGCATGTGTGACCGACACCCCCTCTA[GT]ATGTGCGGTGTCCCCGTTCATCTCTCTGAAAGCTACTG
5225 IS [GT] GCCCACACGCCCTCAGTGGACA
5233 I A CCGTGAGAGTGGGCACACACCCTGAGA
5233 P C A ATGACGTGGCAGACCGGTGATGTGGCAAC
5233 P T A CGCGCCGAGGTGGTGATGTGGCAACA
5233 T C A AAGGTGTTGCCACATCACCGCTCAGGGTGTGTGCCCACTCTCACGGAT
5233 T T A AAGGTGTTGCCACATCACCACTCAGGGTGTGTGCCCACTCTCACGGAT
CCAGCCTGCCATATGCTGGCCTGGACGTGGGGATCCGTGAGAGTGGGCACACACCCTGAG[CT]GGTGATGTGGCAACACCTTGGAGAGCTCCACCAGACC
5233 IS [CT] TCCGTGTTCCCCAGGAGGCCACA
5238 I S CACAGTTTACCTGGGCTTTGCTGAATTCCAACAATACCT
5238 P T S CGCGCCGAGGATAGAAGTTTTAAACAAAGAAACCTY
5238 P G S ATGACGTGGCAGACCTAGAAGTTTTAAACAAAGAAACCTY
5238 T T S ACACAGTTTCTTTGTTTAAAACTTCTATGGTATTGTTGGAATTCAGCAAAGCCCAGGTAAACTGTGCC
5238 T G S ACACAGGTTTCTTTGTTTAAAACTTCTAGGGTATTGTTGGAATTCAGCAAAGCCCAGGTAAACTGTGCC
GTTGCCTTGGGCATTATCGCAGACAACCTGTCACACAGGTTTCTTTGTTTAAAACTTCTA[TG]GGTATTGTTGGAATTCAGCAAAGCCCAGGTAAACTGTGCC
5238 IS [TG] AACCAACGGACTGAGCCAAG
5246 I S CAAAATCCTGACAACTCTCATCTGTGCCAGATGACTTACTAACTT
5246 P T S CGCGCCGAGGATGTTTTTAGCTGTATTCACTTAG
5246 P C S ATGACGTGGCAGACGTGTTTTTAGCTGTATTCACTTAG
5246 T T S CCTACTAAGTGAATACAGCTAAAAACATAGTTAGTAAGTCATCTGGCACAGATGAGAGTTGTCAGGATTTTGTG
5246 T C S CCTACTAAGTGAATACAGCTAAAAACACAGTTAGTAAGTCATCTGGCACAGATGAGAGTTGTCAGGATTTTGTG
TTTAAGCCATGCTTTCAGCAGTTAACAAAAAATCCTACTAAGTGAATACAGCTAAAAACA[TC]AGTTAGTAAGTCATCTGGCACAGATGAGAGTTGTCAGGATT
5246 IS [TC] TTGTGGTGTATTACACACA
5497 I A GGGCACTCATTCCTTCTCCAGTATCCTGAAGTAGCTATTC
5497 P G A ATGACGTGGCAGACGTAATAGGCCTGGGCTY
5497 P T A CGCGCCGAGGTTAATAGGCCTGGGCTY
5497 T G A ACACAGCCCAGGCCTATTACAATAGCTACTTCAGGATACTGGAGAAGGAATGAGTGCCCAC
5497 T T A ACACAGCCCAGGCCTATTAAAATAGCTACTTCAGGATACTGGAGAAGGAATGAGTGCCCAC
TTCTTCCCAAAGCTGAACTGTGGGCACTCATTCCTTCTCCAGTATCCTGAAGTAGCTATT[GT]TAATAGGCCTGGGCTGTGTATACTACCACCTTCTCTCCCT
5497 IS [GT] GAGCTGCCCCACAGCTGTGC
5509 I S GAGATGTTTTCAGCCCTCCTGGAATGGTGAGTTATTAATCCT
5509 P T S CGCGCCGAGGAAAAGAACAGTGGGCTGY
5509 P C S ATGACGTGGCAGACGAAAGAACAGTGGGCTGY
5509 T T S AGGACAGCCCACTGTTCTTTTGGATTAATAACTCACCATTCCAGGAGGGCTGAAAACATCTCCC
5509 T C S AGGACAGCCCACTGTTCTTTCGGATTAATAACTCACCATTCCAGGAGGGCTGAAAACATCTCCC
GTCTCATCTATATATAGCACCAGGACAGGCAAAGGCAGGTAGGACAGCCCACTGTTCTTT[TC]GGATTAATAACTCACCATTCCAGGAGGGCTGAAAACATC
5509 IS [TC] TCCCCGCATCTTCTGCATAGG
5510 I A GGCAGGTAGGACAGCCCACTGTTCTTTTGGATTAT
5510 P A A CGCGCCGAGGATAACTCACCATTCCAGGAY
5510 P G A ATGACGTGGCAGACGTAACTCACCATTCCAGGY
5510 T A A GCCCTCCTGGAATGGTGAGTTATTAATCCAAAAGAACAGTGGGCTGTCCTACCTGCCTT
5510 T G A GCCCTCCTGGAATGGTGAGTTACTAATCCAAAAGAACAGTGGGCTGTCCTACCTGCCTT
CTATATATAGCACCAGGACAGGCAAAGGCAGGTAGGACAGCCCACTGTTCTTTTGGATTA[AG]TAACTCACCATTCCAGGAGGGCTGAAAACATCTCCCCGC
5510 IS [AG] ATCTTCTGCATAGGGCGACAT
5580 I S CCACCCAGACAGGGCCCTGTACCCC
5580 P C S ATGACGTGGCAGACGCGGGACAGCTGTY
5580 P A S CGCGCCGAGGTCGGGACAGCTGTCY
5580 T C S CACTGACAGCTGTCCCGCGGGTACAGGGCCCTGTCTGGGTGGCC
5580 T A S CACTGACAGCTGTCCCGAGGGTACAGGGCCCTGTCTGGGTGGCC
CCTGCCTGCTGCAGGGATAGGGGAGTGGGCAGGCAGTGAGAGACACTGACAGCTGTCCCG[CA]GGGTACAGGGCCCTGTCTGGGTGGCCAGGCCCATGT
5580 IS [CA] CTCGGGCCCACAGTGCGCCCCCCA
5583 I A GCCCTCAGCCCAGGGCCTAGGAAC
5583 P G A ATGACGTGGCAGACGCCAACTTGATCCTCCY
5583 P T A CGCGCCGAGGTCCAACTTGATCCTCCCY
5583 T G A TGTGGGGAGGATCAAGTTGGCTTCCTAGGCCCTGGGCTGAGGGCTG
5583 T T A TGTGGGGAGGATCAAGTTGGATTCCTAGGCCCTGGGCTGAGGGCTG
CCTGGTCCAGCTGTCCCAGGTGGGGTGCTGGGCTTCAGCCCTCAGCCCAGGGCCTAGGAA[GT]CCAACTTGATCCTCCCCACACAGCAGCCAGGTTCAAA
5583 IS [GT] TGCAGGTCCCGTAACGGAAGTGC
5592 I S CTGTCTGCCCCCAACCACCGCTCT
5592 P C S ATGACGTGGCAGACGCTGGTGGGCTGGY
5592 P T S CGCGCCGAGGACTGGTGGGCTGGY
5592 T C S CCCCCCAGCCCACCAGCGAGCGGTGGTTGGGGGCAGACAGGC
5592 T T S CCCCCCAGCCCACCAGTGAGCGGTGGTTGGGGGCAGACAGGC
CAGAGGGTCTGGAGGGGAAGAAAGACCTCATCCTACTAGGGAGCCCCCCCAGCCCACCAG[CT]GAGCGGTGGTTGGGGGCAGACAGGCTGTGGGGCTAA
5592 IS [CT] GGAGCCCCTGCACTCCCCCGTCCT
5620 I S GCCCAGAAGACATGTCCCTCAATGGCTTACAA
5620 P G S ATGACGTGGCAGACCAGGGCAGTTGCTATGY
5620 P A S CGCGCCGAGGTAGGGCAGTTGCTATGGY
5620 T G S AACCCCATAGCAACTGCCCTGTGTAAGCCATTGAGGGACATGTCTTCTGGGCCG
5620 T A S AACCCCATAGCAACTGCCCTATGTAAGCCATTGAGGGACATGTCTTCTGGGCCG
ACACAACCCCTACCTCTAAAGCACAAGCACTTGAGAACACAACCCCATAGCAACTGCCCT[GA]TGTAAGCCATTGAGGGACATGTCTTCTGGGCCGACGCAT
5620 IS [GA] GGTCTGCATGAATGGTGCTCC
5655 I A GGTATGGCAGATGAGTTAAGAAAAGTCAAACTAAGGAAAGCTTTTTTGGA
5655 P T A CGCGCCGAGGTAGTTTAGTGATTTGTTAGTTTGCY
5655 P C A ATGACGTGGCAGACCAGTTTAGTGATTTGTTAGTTTGCY
5655 T T A CCTAGCAAACTAACAAATCACTAAACTACCAAAAAAGCTTTCCTTAGTTTGACTTTTCTTAACTCATCTGCCATACCAT
5655 T C A CCTAGCAAACTAACAAATCACTAAACTGCCAAAAAAGCTTTCCTTAGTTTGACTTTTCTTAACTCATCTGCCATACCAT
GTACTACTGATGGTATGGCAGATGAGTTAAGAAAAGTCAAACTAAGGAAAGCTTTTTTGG[TC]AGTTTAGTGATTTGTTAGTTTGCTAGGCTTAAGTAAAATA
5655 IS [TC] CATGAATATATAGAGGGAGT
5694 I S TGGTCCCCAGAATCAAGGTTGGGAGAAAACTGTTTT
5694 P T S CGCGCCGAGGATATCTTTGGGGCATTGGY
5694 P C S ATGACGTGGCAGACGTATCTTTGGGGCATTGGY
5694 T T S AATACCAATGCCCCAAAGATATAAACAGTTTTCTCCCAACCTTGATTCTGGGGACCATG
5694 T C S AATACCAATGCCCCAAAGATACAAACAGTTTTCTCCCAACCTTGATTCTGGGGACCATG

FIGURE 129E

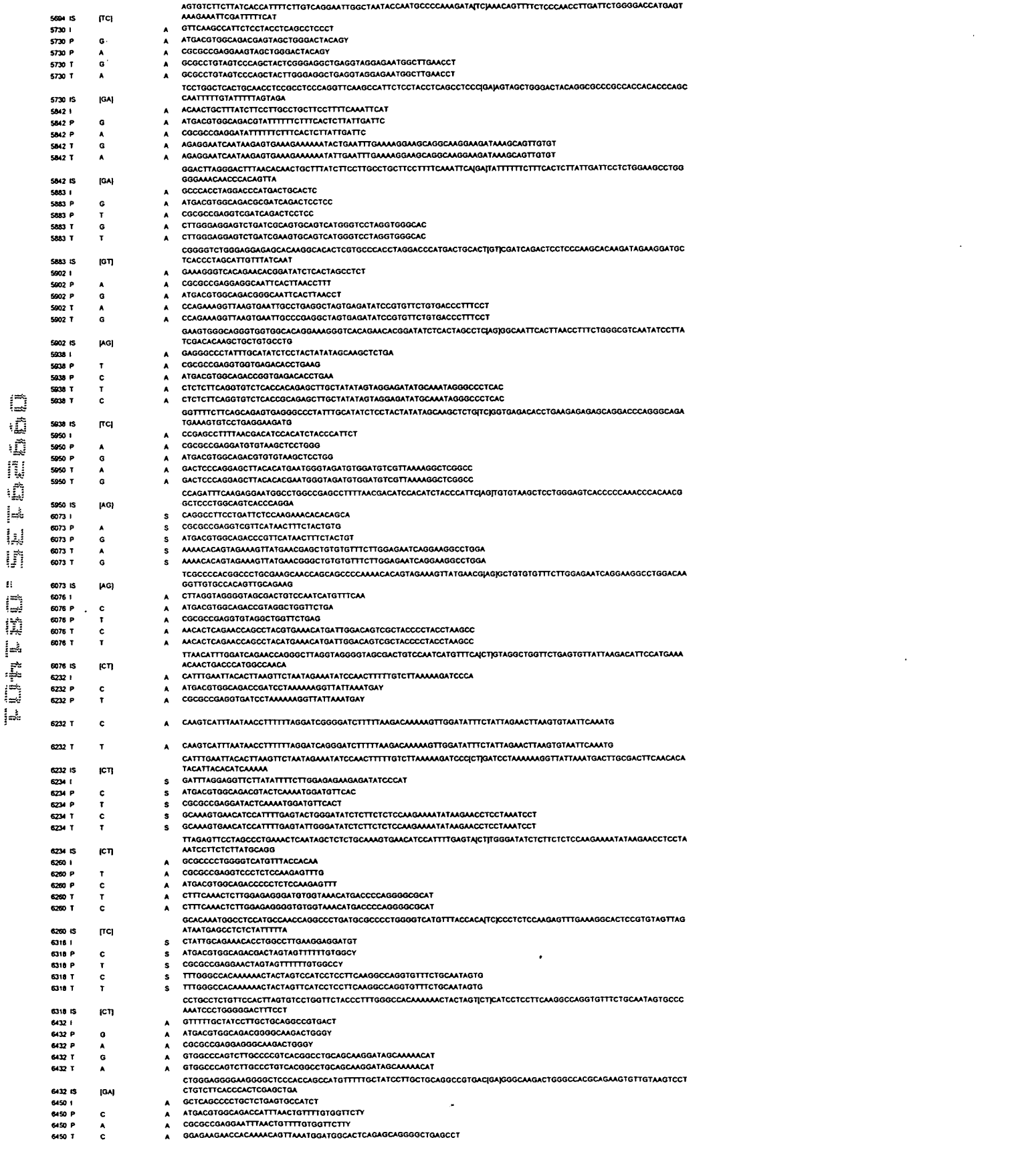
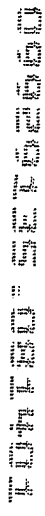

AGTGTCTTCTTATCACCATTTTCTTGTCAGGAATTGGCTAATACCAATGCCCCAAAGATA[TC]AAACAGTTTTCTCCCAACCTTGATTCTGGGGACCATGAGT
5694 IS [TC] AAAGAAATTCGATTTTTCAT
5730 I A GTTCAAGCCATTCTCCTACCTCAGCCTCCCT
5730 P G A ATGACGTGGCAGACGAGTAGCTGGGACTACAGY
5730 P A A CGCGCCGAGGAAGTAGCTGGGACTACAGY
5730 T G A GCGCCTGTAGTCCCAGCTACTCGGGAGGCTGAGGTAGGAGAATGGCTTGAACCT
5730 T A A GCGCCTGTAGTCCCAGCTACTTGGGAGGCTGAGGTAGGAGAATGGCTTGAACCT
TCCTGGCTCACTGCAACCTCCGCCTCCCAGGTTCAAGCCATTCTCCTACCTCAGCCTCCC[GA]AGTAGCTGGGACTACAGGCGCCCGCCACCACACCCAGC
5730 IS [GA] CAATTTTTGTATTTTTAGTAGA
5842 I A ACAACTGCTTTATCTTCCTTGCCTGCTTCCTTTTCAAATTCAT
5842 P G A ATGACGTGGCAGACGTATTTTTTCTTTCACTCTTATTGATTC
5842 P A A CGCGCCGAGGATATTTTTTCTTTCACTCTTATTGATTC
5842 T G A AGAGGAATCAATAAGAGTGAAAGAAAAAATACTGAATTTGAAAAGGAAGCAGGCAAGGAAGATAAAGCAGTTGTGT
5842 T A A AGAGGAATCAATAAGAGTGAAAGAAAAAATATTGAATTTGAAAAGGAAGCAGGCAAGGAAGATAAAGCAGTTGTGT
GGACTTAGGGACTTTAACACAACTGCTTTATCTTCCTTGCCTGCTTCCTTTTCAAATTCA[GA]TATTTTTTCTTTCACTCTTATTGATTCCTCTGGAAGCCTGG
5842 IS [GA] GGGAAACAACCCACAGTTA
5883 I A GCCCACCTAGGACCCATGACTGCACTC
5883 P G A ATGACGTGGCAGACGCGATCAGACTCCTCC
5883 P T A CGCGCCGAGGTCGATCAGACTCCTCC
5883 T G A CTTGGGAGGAGTCTGATCGCAGTGCAGTCATGGGTCCTAGGTGGGCAC
5883 T T A CTTGGGAGGAGTCTGATCGAAGTGCAGTCATGGGTCCTAGGTGGGCAC
CGGGGTCTGGGAGGAGAGCACAAGGCACACTCGTGCCCACCTAGGACCCATGACTGCACT[GT]CGATCAGACTCCTCCCAAGCACAAGATAGAAGGATGC
5883 IS [GT] TCACCCTAGCATTGTTTATCAAT
5902 I A GAAAGGGTCACAGAACACGGATATCTCACTAGCCTCT
5902 P A A CGCGCCGAGGAGGCAATTCACTTAACCTTT
5902 P G A ATGACGTGGCAGACGGGCAATTCACTTAACCT
5902 T A A CCAGAAAGGTTAAGTGAATTGCCTGAGGCTAGTGAGATATCCGTGTTCTGTGACCCTTTCCT
5902 T G A CCAGAAAGGTTAAGTGAATTGCCCGAGGCTAGTGAGATATCCGTGTTCTGTGACCCTTTCCT
GAAGTGGGCAGGGTGGTGGCACAGGAAAGGGTCACAGAACACGGATATCTCACTAGCCTC[AG]GGCAATTCACTTAACCTTTCTGGGCGTCAATATCCTTA
5902 IS [AG] TCGACACAAGCTGCTGTGCCTG
5938 I A GAGGGCCCTATTTGCATATCTCCTACTATATAGCAAGCTCTGA
5938 P T A CGCGCCGAGGTGGTGAGACACCTGAAG
5938 P C A ATGACGTGGCAGACCGGTGAGACACCTGAA
5938 T T A CTCTCTTCAGGTGTCTCACCACAGAGCTTGCTATATAGTAGGAGATATGCAAATAGGGCCCTCAC
5938 T C A CTCTCTTCAGGTGTCTCACCGCAGAGCTTGCTATATAGTAGGAGATATGCAAATAGGGCCCTCAC
GGTTTTCTTCAGCAGAGTGAGGGCCCTATTTGCATATCTCCTACTATATAGCAAGCTCTG[TC]GGTGAGACACCTGAAGAGAGAGCAGGACCCAGGGCAGA
5938 IS [TC] TGAAAGTGTCCTGAGGAAGATG
5950 I A CCGAGCCTTTTAACGACATCCACATCTACCCATTCT
5950 P A A CGCGCCGAGGATGTGTAAGCTCCTGGG
5950 P G A ATGACGTGGCAGACGTGTGTAAGCTCCTGG
5950 T A A GACTCCCAGGAGCTTACACATGAATGGGTAGATGTGGATGTCGTTAAAAGGCTCGGCC
5950 T G A GACTCCCAGGAGCTTACACACGAATGGGTAGATGTGGATGTCGTTAAAAGGCTCGGCC
CCAGATTTCAAGAGGAATGGCCTGGCCGAGCCTTTTAACGACATCCACATCTACCCATTC[AG]TGTGTAAGCTCCTGGGAGTCACCCCCAAACCCACAACG
5950 IS [AG] GCTCCCTGGCAGTCACCCAGGA
6073 I S CAGGCCTTCCTGATTCTCCAAGAAACACACAGCA
6073 P A S CGCGCCGAGGTCGTTCATAACTTTCTACTGTG
6073 P G S ATGACGTGGCAGACCCGTTCATAACTTTCTACTGT
6073 T A S AAAACACAGTAGAAAGTTATGAACGAGCTGTGTGTTTCTTGGAGAATCAGGAAGGCCTGGA
6073 T G S AAAACACAGTAGAAAGTTATGAACGGGCTGTGTGTTTCTTGGAGAATCAGGAAGGCCTGGA
TCGCCCCACGGCCCTGCGAAGCAACCAGCAGCCCCAAAACACAGTAGAAAGTTATGAACG[AG]GCTGTGTGTTTCTTGGAGAATCAGGAAGGCCTGGACAA
6073 IS [AG] GGTTGTGCCACAGTTGCAGAAG
6076 I A CTTAGGTAGGGGTAGCGACTGTCCAATCATGTTTCAA
6076 P C A ATGACGTGGCAGACCGTAGGCTGGTTCTGA
6076 P T A CGCGCCGAGGTGTAGGCTGGTTCTGAG
6076 T C A AACACTCAGAACCAGCCTACGTGAAACATGATTGGACAGTCGCTACCCCTACCTAAGCC
6076 T T A AACACTCAGAACCAGCCTACATGAAACATGATTGGACAGTCGCTACCCCTACCTAAGCC
TTAACATTTGGATCAGAACCAGGGCTTAGGTAGGGGTAGCGACTGTCCAATCATGTTTCA[CT]GTAGGCTGGTTCTGAGTGTTATTAAGACATTCCATGAAA
6076 IS [CT] ACAACTGACCCATGGCCAACA
6232 I A CATTTGAATTACACTTAAGTTCTAATAGAAATATCCAACTTTTTGTCTTAAAAAGATCCCA
6232 P C A ATGACGTGGCAGACCGATCCTAAAAAAGGTTATTAAATGAY
6232 P T A CGCGCCGAGGTGATCCTAAAAAAGGTTATTAAATGAY
6232 T C A CAAGTCATTTAATAACCTTTTTTAGGATCGGGGATCTTTTTAAGACAAAAAGTTGGATATTTCTATTAGAACTTAAGTGTAATTCAAATG
6232 T T A CAAGTCATTTAATAACCTTTTTTAGGATCAGGGATCTTTTTAAGACAAAAAGTTGGATATTTCTATTAGAACTTAAGTGTAATTCAAATG
CATTTGAATTACACTTAAGTTCTAATAGAAATATCCAACTTTTTGTCTTAAAAAGATCCC[CT]GATCCTAAAAAAGGTTATTAAATGACTTGCGACTTCAACACA
6232 IS [CT] TACATTACACATCAAAAA
6234 I S GATTTAGGAGGTTCTTATATTTTCTTGGAGAGAAGAGATATCCCAT
6234 P C S ATGACGTGGCAGACGTACTCAAAATGGATGTTCAC
6234 P T S CGCGCCGAGGATACTCAAAATGGATGTTCACT
6234 T C S GCAAAGTGAACATCCATTTTGAGTATTGGGATATCTCTTCTCTCCAAGAAAATATAAGAACCTCCTAAATCCT
6234 T T S GCAAAGTGAACATCCATTTTGAGTATTGGGATATCTCTTCTCTCCAAGAAAATATAAGAACCTCCTAAATCCT
TTAGAGTTCCTAGCCCTGAAACTCAATAGCTCTCTGCAAAGTGAACATCCATTTTGAGTA[CT]TGGGATATCTCTTCTCTCCAAGAAAATATAAGAACCTCCTA
6234 IS [CT] AATCCTTCTCTTATGCAGG
6260 I A GCGCCCCTGGGGTCATGTTTACCACAA
6260 P T A CGCGCCGAGGTCCCTCTCCAAGAGTTTG
6260 P C A ATGACGTGGCAGACCCCCTCTCCAAGAGTTT
6260 T T A CTTTCAAACTCTTGGAGAGGGATGTGGTAAACATGACCCCAGGGGCGCAT
6260 T C A CTTTCAAACTCTTGGAGAGGGGTGTGGTAAACATGACCCCAGGGGCGCAT
GCACAAATGGCCTCCATGCCAACCAGGCCCTGATGCGCCCCTGGGGTCATGTTTACCACA[TC]CCCTCTCCAAGAGTTTGAAAGGCACTCCGTGTAGTTAG
6260 IS [TC] ATAATGAGCCTCTCTATTTTTA
6318 I S CTATTGCAGAAACACCTGGCCTTGAAGGAGGATGT
6318 P C S ATGACGTGGCAGACGACTAGTAGTTTTTTGTGGCY
6318 P T S CGCGCCGAGGAACTAGTAGTTTTTTGTGGCCY
6318 T C S TTTGGGCCACAAAAAACTACTAGTCCATCCTCCTTCAAGGCCAGGTGTTTCTGCAATAGTG
6318 T T S TTTGGGCCACAAAAAACTACTAGTTCATCCTCCTTCAAGGCCAGGTGTTTCTGCAATAGTG
CCTGCCTCTGTTCCACTTAGTGTCCTGGTTCTACCCTTTGGGCCACAAAAAACTACTAGT[CT]CATCCTCCTTCAAGGCCAGGTGTTTCTGCAATAGTGCCC
6318 IS [CT] AAATCCCTGGGGGACTTTCCT
6432 I A GTTTTTGCTATCCTTGCTGCAGGCCGTGACT
6432 P G A ATGACGTGGCAGACGGGGCAAGACTGGGY
6432 P A A CGCGCCGAGGAGGGCAAGACTGGGY
6432 T G A GTGGCCCAGTCTTGCCCCGTCACGGCCTGCAGCAAGGATAGCAAAAACAT
6432 T A A GTGGCCCAGTCTTGCCCTGTCACGGCCTGCAGCAAGGATAGCAAAAACAT
CTGGGAGGGGAAGGGGCTCCCACCAGCCATGTTTTTGCTATCCTTGCTGCAGGCCGTGAC[GA]GGGCAAGACTGGGCCACGCAGAAGTGTTGTAAGTCCT
6432 IS [GA] CTGTCTTCACCCACTCGAGCTGA
6450 I A GCTCAGCCCCTGCTCTGAGTGCCATCT
6450 P C A ATGACGTGGCAGACCATTTAACTGTTTTGTGGTTCTY
6450 P A A CGCGCCGAGGAATTTAACTGTTTTGTGGTTCTTY
6450 T C A GGAGAAGAACCACAAAACAGTTAAATGGATGGCACTCAGAGCAGGGGCTGAGCCT

FIGURE 129E

6450	T	A	A	GGAGAAGAACCACAAAACAGTTAAATTGATGGCACTCAGAGCAGGGGCTGAGCCT
6450	IS	[CA]		GGAGCAGGTGGATAAACAGGACACAGAGGTACAGGCTCAGCCCCTGCTCTGAGTGCCATC[CA]ATTTAACTGTTTTGTGGTTCTTCTCCACCCCCATTCCCA CCCCATACCCCTGGCCAAGGA
6509	I		S	GCCTACCAGGGCCCTGCGGTGC
6509	P	T	S	CGCGCCGAGGAGTATATGTAGTTCCTGGGT
6509	P	A	S	ATGACGTGGCAGACTGTATATGTAGTTCCTGGGT
6509	T	T	S	CAGAACCCAGGAACTACATATACTCACCGCAGGGCCCTGGTAGGCAC
6509	T	A	S	CAGAACCCAGGAACTACATATACACACCGCAGGGCCCTGGTAGGCAC
6509	IS	[TA]		AACATGAGACTCAATTTCCTGTTTGGGGAGATAGCATCAGAACCCAGGAACTACATATAC[TA]CACCGCAGGGCCCTGGTAGGCACTGAACTTTGAGCTTCA GGCAGCACAACTCACATTTGT
6556	I		S	CCTGAGGCTTTACCGGGTCTTGTGGCTTAACT
6556	P	C	S	ATGACGTGGCAGACGCTGCCCACATCG
6556	P	T	S	CGCGCCGAGGACTGCCCACATCGC
6556	T	C	S	CCCAGCGATGTGGGCAGCGTTAAGCCACAAGACCCGGTAAAGCCTCAGGTT
6556	T	T	S	CCCAGCGATGTGGGCAGTGTTAAGCCACAAGACCCGGTAAAGCCTCAGGTT
6556	IS	[CT]		AAGTAAGGGATTAGTATCTCCACAGACAACTGAGCATATGGTGCCCAGCGATGTGGGCAG[CT]GTTAAGCCACAAGACCCGGTAAAGCCTCAGGTTTCCTC ATTATAATCCCCGCTAAGCCAC
6568	I		A	GAAACTAGAAAGAAGCTGAGCATGAGAGGGGTCAGAGT
6568	P	A	A	CGCGCCGAGGATCAACGGCATCACC
6568	P	G	A	ATGACGTGGCAGACGTCAACGGCATCACC
6568	T	A	A	TGTGGGTGATGCCGTTGATCTCTGACCCCTCTCATGCTCAGCTTCTTTCTAGTTTCCC
6568	T	G	A	TGTGGGTGATGCCGTTGACCTCTGACCCCTCTCATGCTCAGCTTCTTTCTAGTTTCCC
6568	IS	[AG]		GAAGAGAGAAGGGGACTGAGAGGGAAACTAGAAAGAAGCTGAGCATGAGAGGGGTCAGAG[AG]TCAACGGCATCACCCACAGCAAGGAAGGGGAGGGGA GTTTTCCTCCCAGACTGGGCAGAG
6703	I		A	CCATTAGTCTGGCAGTATCAGGATGTTCATTTTAGGGAGAAGTC
6703	P	T	A	CGCGCCGAGGTTGAGATCATTTAAGCAATTTCAY
6703	P	G	A	ATGACGTGGCAGACGTGAGATCATTTAAGCAATTTCAY
6703	T	T	A	TCTGTGAAATTGCTTAAATGATCTCAAACTTCTCCCTAAAATGAACATCCTGATACTGCCAGACTAATGGAG
6703	T	G	A	TCTGTGAAATTGCTTAAATGATCTCACACTTCTCCCTAAAATGAACATCCTGATACTGCCAGACTAATGGAG
6703	IS	[TG]		CATAGGTCATCACTGCTCCATTAGTCTGGCAGTATCAGGATGTTCATTTTAGGGAGAAGT[TG]TGAGATCATTTAAGCAATTTCACAGACTGCAATCTCTTAC CTGGGTAGCTTTGCAGGATC
6754	I		A	GAGCCCAGCAACAGCCCCTTTGATCCT
6754	P	A	A	CGCGCCGAGGATTTTCACTGAACCTGTGTY
6754	P	G	A	ATGACGTGGCAGACGTTTTCACTGAACCTGTGTY
6754	T	A	A	GTGGACACAGGTTCAGTGAAAATGGATCAAAGGGGCTGTTGCTGGGCTCAG
6754	T	G	A	GTGGACACAGGTTCAGTGAAAACGGATCAAAGGGGCTGTTGCTGGGCTCAG
6754	IS	[AG]		CTGCAGCCATAAGACGTTCTGCAGTTGATTGACTGAGCCCAGCAACAGCCCCTTTGATCC[AG]TTTTCACTGAACCTGTGTCCACTCAACTCCAGATGATCT GTGCAGGTCAAGATCAAGCCC
6775	I		S	GAGGTGTGACTCAGCCAACCGAAAACATTTTAAGCAA
6775	P	A	S	CGCGCCGAGGTCAGATTCGTGAAAGCTCY
6775	P	G	S	ATGACGTGGCAGACCCAGATTCGTGAAAGCTCY
6775	T	A	S	TTCTGAGCTTTCACGAATCTGATGCTTAAAATGTTTTCGGTTGGCTGAGTCACACCTCTC
6775	T	G	S	TTCTGAGCTTTCACGAATCTGGTGCTTAAAATGTTTTCGGTTGGCTGAGTCACACCTCTC
6775	IS	[AG]		TTCCTACCTGCCATTTTGTTTAAGGCTAGAGCTTGATTTTTCTGAGCTTTCACGAATCTG[AG]TGCTTAAAATGTTTTCGGTTGGCTGAGTCACACCTCTCCG ACACTGGAATTCCCCAAATC
6792	I		S	AGGCTCTGACAACCTGCAGTCTACCTATGGCA
6792	P	G	S	ATGACGTGGCAGACCCCATCTGTCAGTCACTY
6792	P	A	S	CGCGCCGAGGTCCATCTGTCAGTCACTAGY
6792	T	G	S	GCTGCTAGTGACTGACAGATGGGGCCATAGGTAGACTGCAGGTTGTCAGAGCCTCA
6792	T	A	S	GCTGCTAGTGACTGACAGATGGAGCCATAGGTAGACTGCAGGTTGTCAGAGCCTCA
6792	IS	[GA]		TCCCAGTGTCAGATGCCAATAATCATCTCTTTTCTATGGCTGCTAGTGACTGACAGATGG[GA]GCCATAGGTAGACTGCAGGTTGTCAGAGCCTCATGCTGT AATCACCAATCCCCTGCCCAA
6842	I		A	GAGAACTGTGCTTAGGGTCAGCCCCATAAGATCTA
6842	P	C	A	ATGACGTGGCAGACCAGGTTGGGATGGGTY
6842	P	T	A	CGCGCCGAGGTAGGTTGGGATGGGTCY
6842	T	C	A	CCCAGACCCATCCCAACCTGAGATCTTATGGGGCTGACCCTAAGCACAGTTCTCAG
6842	T	T	A	CCCAGACCCATCCCAACCTAAGATCTTATGGGGCTGACCCTAAGCACAGTTCTCAG
6842	IS	[CT]		AGGGCAGGGAGAGCCATCTCCCAACTGAGAACTGTGCTTAGGGTCAGCCCCATAAGATCT[CT]AGGTTGGGATGGGTCTGGGAACTGAAGCTTGCTGGGC CTGCAGCTGGGATGCACAGTAGG
11099	I		S	CCTGGTACCTGCGTACCTGCTTGTGCAT
11099	P	C	S	ATGACGTGGCAGACGTGACAGGGACCGGY
11099	P	G	S	CGCGCCGAGGCTGACAGGGACCGGY
11099	T	C	S	CACCCCGGTCCCTGTCACTGCACAAGCAGGTACGCAGGTACCAGGTG
11099	T	G	S	CACCCCGGTCCCTGTCAGTGCACAAGCAGGTACGCAGGTACCAGGTG
11099	IS	[CG]		CGGGGGGCGGAGCCTGGCCAGGGAATCACCCAGGACCCGCCGCCACCCCGGTCCCTGTCA[CG]TGCACAAGCAGGTACGCAGGTACCAGGTGCTGCTGT CACTGATGCTCTCCAGCCAAACCA
11154	I		A	CCGTCCCTCCTCCGCCCGCT
11154	P	C	A	CGCGCCGAGGCCTGGTGTCACCAACY
11154	P	G	A	ATGACGTGGCAGACGCTGGTGTCACCAACY
11154	T	C	A	CAAGGTTGGTGACACCAGGGCGGGCGGAGGAGGGACGGGA
11154	T	G	A	CAAGGTTGGTGACACCAGCGCGGGCGGAGGAGGGACGGGA
11154	IS	[CG]		CCGCGCGCTCAGCATCCCTCCTCCTCCTCCCCCATCTCCTCCCGTCCCTCCTCCGCCCGC[CG]CTGGTGTCACCAACCTTGGGCGTGCGGATGTGCTCCA TGGCTGGCCCACGTCTGCAGGGT
11164	I		A	GAGCGGTATGAAGGAGCTGGGTTTCATATGTGATATTAAGAGTTAAGT
11164	P	G	A	ATGACGTGGCAGACGTGCTACGTTAACAACCAY
11164	P	A	A	CGCGCCGAGGATGCTACGTTAACAACCAAY
11164	T	G	A	AATGTTGGTTGTTAACGTAGCACCTTAACTCTTAATATCACATATGAAACCCAGCTCCTTCATACCGCTCGG
11164	T	A	A	AATGTTGGTTGTTAACGTAGCATCTTAACTCTTAATATCACATATGAAACCCAGCTCCTTCATACCGCTCGG
11164	IS	[GA]		AATGGATCCACCCGAGCGGTATGAAGGAGCTGGGTTTCATATGTGATATTAAGAGTTAAG[GA]TGCTACGTTAACAACCAACATTTAACACTGCAGGGGTAG CGCTTTATCACAAGAGACTTT
11192	I		A	GGCGGAACTGGATGATGAGAGTGAGCCTCA
11192	P	C	A	ATGACGTGGCAGACCTGAGAACCCGCCAY
11192	P	T	A	CGCGCCGAGGTTGAGAACCCGCCAY
11192	T	C	A	CCGGTGGCGGGTTCTCAGGAGGCTCACTCTCATCATCCAGTTCCGCCAA
11192	T	T	A	CCGGTGGCGGGTTCTCAAGAGGCTCACTCTCATCATCCAGTTCCGCCAA
11192	IS	[CT]		GCAATCGGAGGAAATCTGTTCACCGAGTGTTGGCGGAACTGGATGATGAGAGTGAGCCTC[CT]TGAGAACCCGCCACCGGTCCTTATGGAGCCCAGGAAG AAACTCCGTGTAGACAAAGCCCC
11198	I		A	CAAATACTCCCTTGGGTGAGAGAAGACTTTTAACACCTGCA
11198	P	C	A	ATGACGTGGCAGACCCCTTTATAGATGGTGCACY
11198	P	T	A	CGCGCCGAGGTCCTTTATAGATGGTGCACY
11198	T	C	A	CAGTGTGCACCATCTATAAAGGGGCAGGTGTTAAAAGTCTTCTCTCACCCAAGGGAGTATTTGCT
11198	T	T	A	CAGTGTGCACCATCTATAAAGGAGCAGGTGTTAAAAGTCTTCTCTCACCCAAGGGAGTATTTGCT
11198	IS	[CT]		TAGCACTTCCTCTGCCCAAGCAAATACTCCCTTGGGTGAGAGAAGACTTTTAACACCTGC[CT]CCTTTATAGATGGTGCACACTGCTTACAAAACGGCAGCA GGAGCTGTTAACCCTGCACAC
11200	I		S	CAGGCCGCCTGGCCCCCT
11200	P	C	S	ATGACGTGGCAGACGACATGTCTTGTGTGTCAY
11200	P	T	S	CGCGCCGAGGAACATGTCTTGTGTGTCAGY
11200	T	C	S	GCTGCTGACACACAAGACATGTCGGGGGCCAGGCGGCCTGCA
11200	T	T	S	GCTGCTGACACACAAGACATGTTGGGGGCCAGGCGGCCTGCA

TCF19

FIGURE 129E



				GTGCTTTCCGCTGCCTTCTCAAACGCCCTCCCAAAAAAGCTGCTGACACACAAGACATGT[CT]GGGGGCCAGGCGGCCTGCAATGGACCCTTCCCACCCCC
11200	IS	[CT]		CGCCCCAGGACAGACACTAGAG
11202	I		A	CTCCTTCAGGTCCTGCAGCAGCTGCA
11202	P	C	A	ATGACGTGGCAGACCACCTTCTCCAGGAGGY
11202	P	T	A	CGCGCCGAGGTACCTTCTCCAGGAGGY
11202	T	C	A	GGGGCCTCCTGGAGAAGGTGGCAGCTGCTGCAGGACCTGAAGGAGGT
11202	T	T	A	GGGGCCTCCTGGAGAAGGTAGCAGCTGCTGCAGGACCTGAAGGAGGT
				TTGCAAGGAGCCTGCCCTGCTATCCTCTCCCTCACCTCCTTCAGGTCCTGCAGCAGCTGC[CT]ACCTTCTCCAGGAGGCCCCAGCCCACCCCGCCTCATCC
11202	IS	[CT]		TGCTCCATCCCCTGGCAGCACA
11237	I		A	TCCCTGGCAGTCACCCAGGAAATGCTCT
11237	P	G	A	ATGACGTGGCAGACGTGAACTCTTACGACCAGY
11237	P	A	A	CGCGCCGAGGATGAACTCTTACGACCAGY
11237	T	G	A	GCTGCTGGTCGTAAGAGTTCACGAGCATTTCCTGGGTGACTGCCAGGGAGC
11237	T	A	A	GCTGCTGGTCGTAAGAGTTCATGAGCATTTCCTGGGTGACTGCCAGGGAGC
				GCTCCTGGGAGTCACCCCCAAACCCACAACGGCTCCCTGGCAGTCACCCAGGAAATGCTC[GA]TGAACTCTTACGACCAGCAGCCAGGTGAGACACAAAAG
11237	IS	[GA]		CAGCTGCCAGAAAACTGTCAGC
11292	I		S	CATCCCTCCCTCCCTTTCTTCCTTTTTCTTTTTGCTTCC
11292	P	A	S	CGCGCCGAGGTTTGCTTTGCTTCCTTCCY
11292	P	C	S	ATGACGTGGCAGACGTTGCTTTGCTTCCTTCY
11292	T	A	S	AGAAGGAAGGAAGCAAAGCAAAGAAGCAAAAAGAAAAAGGAAGAAAGGGAGGGAGGGATGGC
11292	T	C	S	AGAAGGAAGGAAGCAAAGCAACGAAGCAAAAAGAAAAAGGAAGAAAGGGAGGGAGGGATGGC
				AAAAGAAAGGAAGGAAAAAATGGCAGGCAGGAAGGAAAAAGAAGGAAGGAAGCAAAGCAA[AC]GAAGCAAAAAGAAAAAGGAAGAAAGGGAGGGAGGGAT
11292	IS	[AC]		GGCAGGAAGAACCAGTTAACCCC
11293	I		A	GACAGCATTCACTTAGAACAACAGTGGGTTTTTGTTTGTTTTTTGAGT
11293	P	A	A	CGCGCCGAGGACCGAGTCTCTCTCTGY
11293	P	G	A	ATGACGTGGCAGACGCCGAGTCTCTCTCTGY
11293	T	A	A	GTGCCAGAGAGAGACTCGGTCTCAAAAAACAAACAAAAACCCACTGTTGTTCTAAGTGAATGCTGTCAG
11293	T	G	A	GTGCCAGAGAGAGACTCGGCCTCAAAAAACAAACAAAAACCCACTGTTGTTCTAAGTGAATGCTGTCAG
				TTGCCCCTCCCCTGACAGCATTCACTTAGAACAACAGTGGGTTTTTGTTTGTTTTTTGAG[AG]CCGAGTCTCTCTCTGGCACCCAGGCTGGAGTGCAGTGGT
11293	IS	[AG]		GTGATCACAGCTCACTGCAGC
11321	I		S	GCACAGGGCCCTAATACCCACAGCTCTA
11321	P	A	S	CGCGCCGAGGTAACTTCCTTGAAGACAAAGATY
11321	P	G	S	ATGACGTGGCAGACCAACTTCCTTGAAGACAAAGAY
11321	T	A	S	ACAGATCTTTGTCTTCAAGGAAGTTAAGAGCTGTGGGTATTAGGGCCCTGTGCTT
11321	T	G	S	ACAGATCTTTGTCTTCAAGGAAGTTGAGAGCTGTGGGTATTAGGGCCCTGTGCTT
				AAAACTACAAAATAGTAACTACAATATAGTAACAGACAGATCTTTGTCTTCAAGGAAGTT[AG]AGAGCTGTGGGTATTAGGGCCCTGTGCTTTGAGCACATGG
11321	IS	[AG]		TATAACTCTGGTTAGCATGT
11331	I		A	ACACAGGGAGCTATTATCATACCCTGATTAAAGGCTTCCCT
11331	P	G	A	ATGACGTGGCAGACGCGACACTGACGTATTTY
11331	P	A	A	CGCGCCGAGGACGACACTGACGTATTTGY
11331	T	G	A	GTTTCAAATACGTCAGTGTCGCGGGAAGCCTTTAATCAGGGTATGATAATAGCTCCCTGTGTGT
11331	T	A	A	GTTTCAAATACGTCAGTGTCGTGGGAAGCCTTTAATCAGGGTATGATAATAGCTCCCTGTGTGT
				AGATGGACTTGGCTGGAAACACACAGGGAGCTATTATCATACCCTGATTAAAGGCTTCCC[GA]CGACACTGACGTATTTGAAACAAAATCATCAACTTTTTTT
11331	IS	[GA]		CAAATTAGCAAAAAAAAGTC
11401	I		A	TGTCACTGTTTTCAGCTTCCATGCGGTGCTT
11401	P	A	A	CGCGCCGAGGACCTCCCTAGCAGGY
11401	P	G	A	ATGACGTGGCAGACGCCTCCCTAGCAGGY
11401	T	A	A	AAAGCCTGCTAGGGAGGTAGCACCGCATGGAAGCTGAAAACAGTGACAGA
11401	T	G	A	AAAGCCTGCTAGGGAGGCAGCACCGCATGGAAGCTGAAAACAGTGACAGA
				AGGACAACGCCTGGTCTGGGTAGTTTTCTCTGTCACTGTTTTCAGCTTCCATGCGGTGCT[AG]CCTCCCTAGCAGGCTTTGTTTTAAACTTAGTCCCCTGTC
11401	IS	[AG]		CGTACAGAGACCACACCTAAG
11426	I		S	CCTCTGGGGCCTGTGCGCACACA
11426	P	G	S	ATGACGTGGCAGACCTCCCACCCTGCCY
11426	P	A	S	CGCGCCGAGGTTCCCACCCTGCCY
11426	T	G	S	GGGAGGCAGGGTGGGAGGTGTGCGCACAGGCCCCAGAGGAC
11426	T	A	S	GGGAGGCAGGGTGGGAAGTGTGCGCACAGGCCCCAGAGGAC
				CAGGTGGGAAGGCTCCAGATGTGCCAAGTGGGGAGTCCAAAGTGGGGAGGCAGGGTGGGA[GA]GTGTGCGCACAGGCCCCAGAGGACCCCACCGGCAT
11426	IS	[GA]		AACTGGGCAGCACCTCCTCCCATGC
11465	I		A	CAGATAGTGCTGACCATCAGACCATCATTTTGCTTTTATAGAAATACAGAAA
11465	P	T	A	CGCGCCGAGGTTTGGTGAACAGTTAACATAAGY
11465	P	C	A	ATGACGTGGCAGACCTTGGTGAACAGTTAACATAAGY
11465	T	T	A	CAAGCTTATGTTAACTGTTCACCAAATTCTGTATTTCTATAAAAGCAAAATGATGGTCTGATGGTCAGCACTATCTGCT
11465	T	C	A	CAAGCTTATGTTAACTGTTCACCAAGTTCTGTATTTCTATAAAAGCAAAATGATGGTCTGATGGTCAGCACTATCTGCT
				GTTGAAAAGCAGATAGTGCTGACCATCAGACCATCATTTTGCTTTTATAGAAATACAGAA[TC]TTGGTGAACAGTTAACATAAGCTTGATAATTCAAAAATAAT
11465	IS	[TC]		TGACATTTTCACAGAAATA
11559	I		A	CGCTACCTATGAAGAACAGTTAGTTGCCCTGTTTGGAACT
11559	P	A	A	CGCGCCGAGGAAACATGGATATTGTTGAACCY
11559	P	G	A	ATGACGTGGCAGACGAACATGGATATTGTTGAACCY
11559	T	A	A	AGTGGGTTCAACAATATCCATGTTTGTTCCAAACAGGGCAACTAACTGTTCTTCATAGGTAGCGAT
11559	T	G	A	AGTGGGTTCAACAATATCCATGTTCGTTCCAAACAGGGCAACTAACTGTTCTTCATAGGTAGCGAT
				GGAAATTATGAAAAGGAACATCGCTACCTATGAAGAACAGTTAGTTGCCCTGTTTGGAAC[AG]AACATGGATATTGTTGAACCCACTGCATGAAGCAAAAGTA
11559	IS	[AG]		TGGAGCAAGACCTGTAGTGA
11564	I		A	ACCACAATAATAGAACCAGCCAGTCTGCTCCTCCT
11564	P	A	A	CGCGCCGAGGAGCACAGCTGATGTCTY
11564	P	G	A	ATGACGTGGCAGACGGCACAGCTGATGTCY
11564	T	A	A	CTGGAGACATCAGCTGTGCTGGAGGAGCAGACTGGCTGGTTCTATTATTGTGGTGG
11564	T	G	A	CTGGAGACATCAGCTGTGCCGGAGGAGCAGACTGGCTGGTTCTATTATTGTGGTGG
				GGTGCAGAGGGCTGTCATGTAAGCCCACCACAATAATAGAACCAGCCAGTCTGCTCCTCC[AG]GCACAGCTGATGTCTCCAGCTCTCCTGGTCATGCCCAA
11564	IS	[AG]		CAAGTACCAGGAACATACATAG
11565	I		A	GCCAGCCCACCCACTTGCCACCA
11565	P	C	A	ATGACGTGGCAGACCTCCCCAGCTCTGCY
11565	P	T	A	CGCGCCGAGGTTCCCCAGCTCTGCY
11565	T	C	A	AGCTGCAGAGCTGGGGAGGGTGGCAAGTGGGTGGGCTGGCAA
11565	T	T	A	AGCTGCAGAGCTGGGGAAGGTGGCAAGTGGGTGGGCTGGCAA
				GGAGCTTTTCTTTCAGCCTCCCCTGCAGCCATCACATTGCCAGCCCACCCACTTGCCACC[CT]TCCCCAGCTCTGCAGCTCCCCAACCCAGAACCTCTCCTC
11565	IS	[CT]		CCTCTGGCTGGAGTCTCTGCC
11584	I		A	GCTTATGGTGGTCCCTTCCCACGTTGTTTGTA
11584	P	T	A	CGCGCCGAGGTTCTTTACAGGAATATCGCCY
11584	P	C	A	ATGACGTGGCAGACCTCTTTACAGGAATATCGCCY
11584	T	T	A	TGTTGGCGATATTCCTGTAAAGAAACAAACAACGTGGGAAGGGACCACCATAAGCGA
11584	T	C	A	TGTTGGCGATATTCCTGTAAAGAGACAAACAACGTGGGAAGGGACCACCATAAGCGA
				GACTTCACACATGGCCATCTGTAGTTATCGCTTATGGTGGTCCCTTCCCACGTTGTTTGT[TC]TCTTTACAGGAATATCGCCAACAGTCTTCCCAATGTAGCT
11584	IS	[TC]		CTTCCAAAAGTTCCAAGTCT
11635	I		A	GCCCAGAGCAGGGCTGGCCGA
11635	P	C	A	ATGACGTGGCAGACCGGGCCTCCGGY
11635	P	T	A	CGCGCCGAGGTGGGCCTCCGGGY
11635	T	C	A	TGGCCCCGGAGGCCCGCGGCCAGCCCTGCTCTGGGCTG
11635	T	T	A	TGGCCCCGGAGGCCCACGGCCAGCCCTGCTCTGGGCTG

PRKAR2B

FIGURE 129E

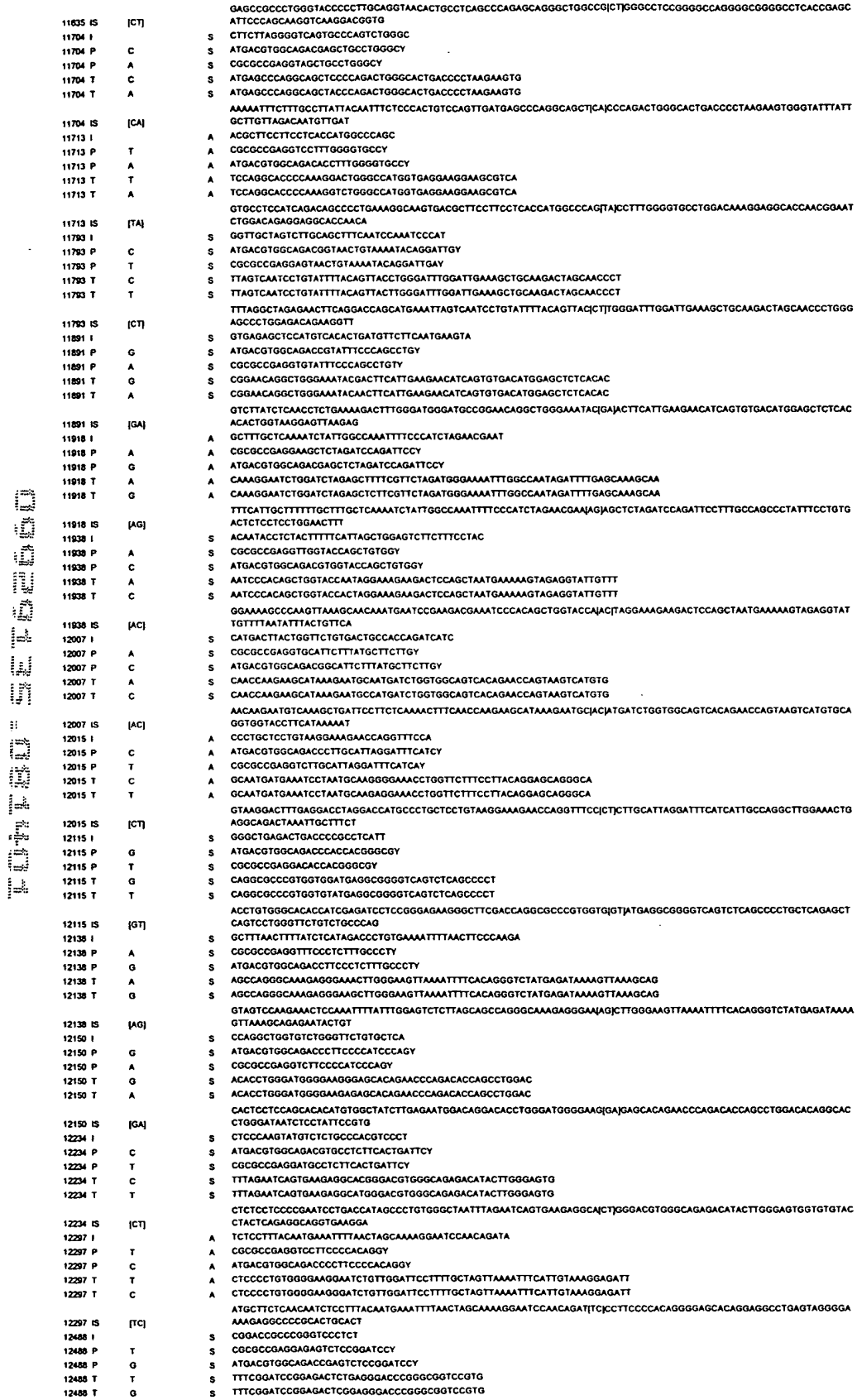

GAGCCGCCCTGGGTACCCCCTTGCAGGTAACACTGCCTCAGCCCAGAGCAGGGCTGGCCG[CT]GGGCCTCCGGGGCCAGGGGCGGGGCCTCACCGAGC
11635 IS [CT] ATTCCCAGCAAGGTCAAGGACGGTG
11704 I S CTTCTTAGGGGTCAGTGCCCAGTCTGGGC
11704 P C S ATGACGTGGCAGACGAGCTGCCTGGGCY
11704 P A S CGCGCCGAGGTAGCTGCCTGGGCY
11704 T C S ATGAGCCCAGGCAGCTCCCCAGACTGGGCACTGACCCCTAAGAAGTG
11704 T A S ATGAGCCCAGGCAGCTACCCAGACTGGGCACTGACCCCTAAGAAGTG
AAAAATTTCTTTGCCTTATTACAATTTCTCCCACTGTCCAGTTGATGAGCCCAGGCAGCT[CA]CCCAGACTGGGCACTGACCCCTAAGAAGTGGGTATTTATT
11704 IS [CA] GCTTGTTAGACAATGTTGAT
11713 I A ACGCTTCCTTCCTCACCATGGCCCAGC
11713 P T A CGCGCCGAGGTCCTTTGGGGTGCCY
11713 P A A ATGACGTGGCAGACACCTTTGGGGTGCCY
11713 T T A TCCAGGCACCCCAAAGGACTGGGCCATGGTGAGGAAGGAAGCGTCA
11713 T A A TCCAGGCACCCCAAAGGTCTGGGCCATGGTGAGGAAGGAAGCGTCA
GTGCCTCCATCAGACAGCCCCTGAAAGGCAAGTGACGCTTCCTTCCTCACCATGGCCCAG[TA]CCTTTGGGGTGCCTGGACAAAGGAGGCACCAACGGAAT
11713 IS [TA] CTGGACAGAGGAGGCACCAACA
11793 I S GGTTGCTAGTCTTGCAGCTTTCAATCCAAATCCCAT
11793 P C S ATGACGTGGCAGACGGTAACTGTAAAATACAGGATTGY
11793 P T S CGCGCCGAGGAGTAACTGTAAAATACAGGATTGAY
11793 T C S TTAGTCAATCCTGTATTTTACAGTTACCTGGGATTTGGATTGAAAGCTGCAAGACTAGCAACCCT
11793 T T S TTAGTCAATCCTGTATTTTACAGTTACTTGGGATTTGGATTGAAAGCTGCAAGACTAGCAACCCT
TTTAGGCTAGAGAACTTCAGGACCAGCATGAAATTAGTCAATCCTGTATTTTACAGTTAC[CT]TGGGATTTGGATTGAAAGCTGCAAGACTAGCAACCCTGGG
11793 IS [CT] AGCCCTGGAGACAGAAGGTT
11891 I S GTGAGAGCTCCATGTCACACTGATGTTCTTCAATGAAGTA
11891 P G S ATGACGTGGCAGACCGTATTTCCCAGCCTGY
11891 P A S CGCGCCGAGGTGTATTTCCCAGCCTGTY
11891 T G S CGGAACAGGCTGGGAAATACGACTTCATTGAAGAACATCAGTGTGACATGGAGCTCTCACAC
11891 T A S CGGAACAGGCTGGGAAATACAACTTCATTGAAGAACATCAGTGTGACATGGAGCTCTCACAC
GTCTTATCTCAACCTCTGAAAAGACTTTGGGATGGGATGCCGGAACAGGCTGGGAAATAC[GA]ACTTCATTGAAGAACATCAGTGTGACATGGAGCTCTCAC
11891 IS [GA] ACACTGGTAAGGAGTTAAGAG
11918 I A GCTTTGCTCAAAATCTATTGGCCAAATTTTCCCATCTAGAACGAAT
11918 P A A CGCGCCGAGGAAGCTCTAGATCCAGATTCCY
11918 P G A ATGACGTGGCAGACGAGCTCTAGATCCAGATTCCY
11918 T A A CAAAGGAATCTGGATCTAGAGCTTTTCGTTCTAGATGGGAAAATTTGGCCAATAGATTTTGAGCAAAGCAA
11918 T G A CAAAGGAATCTGGATCTAGAGCTCTTCGTTCTAGATGGGAAAATTTGGCCAATAGATTTTGAGCAAAGCAA
TTTCATTGCTTTTTTGCTTTGCTCAAAATCTATTGGCCAAATTTTCCCATCTAGAACGAA[AG]AGCTCTAGATCCAGATTCCTTTGCCAGCCCTATTTCCTGTG
11918 IS [AG] ACTCTCCTCCTGGAACTTT
11938 I S ACAATACCTCTACTTTTTCATTAGCTGGAGTCTTCTTTCCTAC
11938 P A S CGCGCCGAGGTTGGTACCAGCTGTGGY
11938 P C S ATGACGTGGCAGACGTGGTACCAGCTGTGGY
11938 T A S AATCCCACAGCTGGTACCAATAGGAAAGAAGACTCCAGCTAATGAAAAAGTAGAGGTATTGTTT
11938 T C S AATCCCACAGCTGGTACCACTAGGAAAGAAGACTCCAGCTAATGAAAAAGTAGAGGTATTGTTT
GGAAAAGCCCAAGTTAAAGCAACAAATGAATCCGAAGACGAAATCCCACAGCTGGTACCA[AC]TAGGAAAGAAGACTCCAGCTAATGAAAAAGTAGAGGTAT
11938 IS [AC] TGTTTTAATATTTACTGTTCA
12007 I S CATGACTTACTGGTTCTGTGACTGCCACCAGATCATC
12007 P A S CGCGCCGAGGTGCATTCTTTATGCTTCTTGY
12007 P C S ATGACGTGGCAGACGGCATTCTTTATGCTTCTTGY
12007 T A S CAACCAAGAAGCATAAAGAATGCAATGATCTGGTGGCAGTCACAGAACCAGTAAGTCATGTG
12007 T C S CAACCAAGAAGCATAAAGAATGCCATGATCTGGTGGCAGTCACAGAACCAGTAAGTCATGTG
AACAAGAATGTCAAAGCTGATTCCTTCTCAAAACTTTCAACCAAGAAGCATAAAGAATGC[AC]ATGATCTGGTGGCAGTCACAGAACCAGTAAGTCATGTGCA
12007 IS [AC] GGTGGTACCTTCATAAAAAT
12015 I A CCCTGCTCCTGTAAGGAAAGAACCAGGTTTCCA
12015 P C A ATGACGTGGCAGACCCTTGCATTAGGATTTCATCY
12015 P T A CGCGCCGAGGTCTTGCATTAGGATTTCATCAY
12015 T C A GCAATGATGAAATCCTAATGCAAGGGAAACCTGGTTCTTTCCTTACAGGAGCAGGGCA
12015 T T A GCAATGATGAAATCCTAATGCAAGAGGAAACCTGGTTCTTTCCTTACAGGAGCAGGGCA
GTAAGGACTTTGAGGACCTAGGACCATGCCCTGCTCCTGTAAGGAAAGAACCAGGTTTCC[CT]CTTGCATTAGGATTTCATCATTGCCAGGCTTGGAAACTG
12015 IS [CT] AGGCAGACTAAATTGCTTTCT
12115 I S GGGCTGAGACTGACCCCGCCTCATT
12115 P G S ATGACGTGGCAGACCCACCACGGGCGY
12115 P T S CGCGCCGAGGACACCACGGGCGY
12115 T G S CAGGCGCCCGTGGTGGATGAGGCGGGGTCAGTCTCAGCCCCT
12115 T T S CAGGCGCCCGTGGTGTATGAGGCGGGGTCAGTCTCAGCCCCT
ACCTGTGGGCACACCATCGAGATCCTCCGGGAGAAGGGCTTCGACCAGGCGCCCGTGGTG[GT]ATGAGGCGGGGTCAGTCTCAGCCCCTGCTCAGAGCT
12115 IS [GT] CAGTCCTGGGTTCTGTCTGCCCAG
12138 I S GCTTTAACTTTTATCTCATAGACCCTGTGAAAATTTTAACTTCCCAAGA
12138 P A S CGCGCCGAGGTTTCCCTCTTTGCCCTY
12138 P G S ATGACGTGGCAGACCTTCCCTCTTTGCCCTY
12138 T A S AGCCAGGGCAAAGAGGGAAACTTGGGAAGTTAAAATTTTCACAGGGTCTATGAGATAAAAGTTAAAGCAG
12138 T G S AGCCAGGGCAAAGAGGGAAGCTTGGGAAGTTAAAATTTTCACAGGGTCTATGAGATAAAAGTTAAAGCAG
GTAGTCCAAGAAACTCCAAATTTTATTTGGAGTCTCTTAGCAGCCAGGGCAAAGAGGGAA[AG]CTTGGGAAGTTAAAATTTTCACAGGGTCTATGAGATAAAA
12138 IS [AG] GTTAAAGCAGAGAATACTGT
12150 I S CCAGGCTGGTGTCTGGGTTCTGTGCTCA
12150 P G S ATGACGTGGCAGACCCTTCCCCATCCCAGY
12150 P A S CGCGCCGAGGTCTTCCCCATCCCAGY
12150 T G S ACACCTGGGATGGGGAAGGAGCACAGAACCCAGACACCAGCCTGGAC
12150 T A S ACACCTGGGATGGGGAAGAGACACAGAACCCAGACACCAGCCTGGAC
CACTCCTCCAGCACACATGTGGCTATCTTGAGAATGGACAGGACACCTGGGATGGGGAAG[GA]GAGCACAGAACCCAGACACCAGCCTGGACACAGGCAC
12150 IS [GA] CTGGGATAATCTCCTATTCCGTG
12234 I S CTCCCAAGTATGTCTCTGCCCACGTCCCT
12234 P C S ATGACGTGGCAGACGTGCCTCTTCACTGATTCY
12234 P T S CGCGCCGAGGATGCCTCTTCACTGATTCY
12234 T C S TTTAGAATCAGTGAAGAGGCACGGGACGTGGGCAGAGACATACTTGGGAGTG
12234 T T S TTTAGAATCAGTGAAGAGGCATGGGACGTGGGCAGAGACATACTTGGGAGTG
CTCTCCTCCCCGAATCCTGACCATAGCCCTGTGGGCTAATTTAGAATCAGTGAAGAGGCA[CT]GGGACGTGGGCAGAGACATACTTGGGAGTGGTGTGTAC
12234 IS [CT] CTACTCAGAGGCAGGTGAAGGA
12297 I A TCTCCTTTACAATGAAATTTTAACTAGCAAAAGGAATCCAACAGATA
12297 P T A CGCGCCGAGGTCCTTCCCCACAGGY
12297 P C A ATGACGTGGCAGACCCCTTCCCCACAGGY
12297 T T A CTCCCCTGTGGGGAAGGAATCTGTTGGATTCCTTTTGCTAGTTAAAATTTCATTGTAAAGGAGATT
12297 T C A CTCCCCTGTGGGGAAGGGATCTGTTGGATTCCTTTTGCTAGTTAAAATTTCATTGTAAAGGAGATT
ATGCTTCTCAACAATCTCCTTTACAATGAAATTTTAACTAGCAAAAGGAATCCAACAGAT[TC]CCTTCCCCACAGGGGAGCACAGGAGGCCTGAGTAGGGGA
12297 IS [TC] AAAGAGGCCCCGCACTGCACT
12488 I S CGGACCGCCCGGGTCCCTCT
12488 P T S CGCGCCGAGGAGAGTCTCCGGATCCY
12488 P G S ATGACGTGGCAGACCGAGTCTCCGGATCCY
12488 T T S TTTCGGATCCGGAGACTCTGAGGGACCCGGGCGGTCCGTG
12488 T G S TTTCGGATCCGGAGACTCGGAGGGACCCGGGCGGTCCGTG

FIGURE 129E

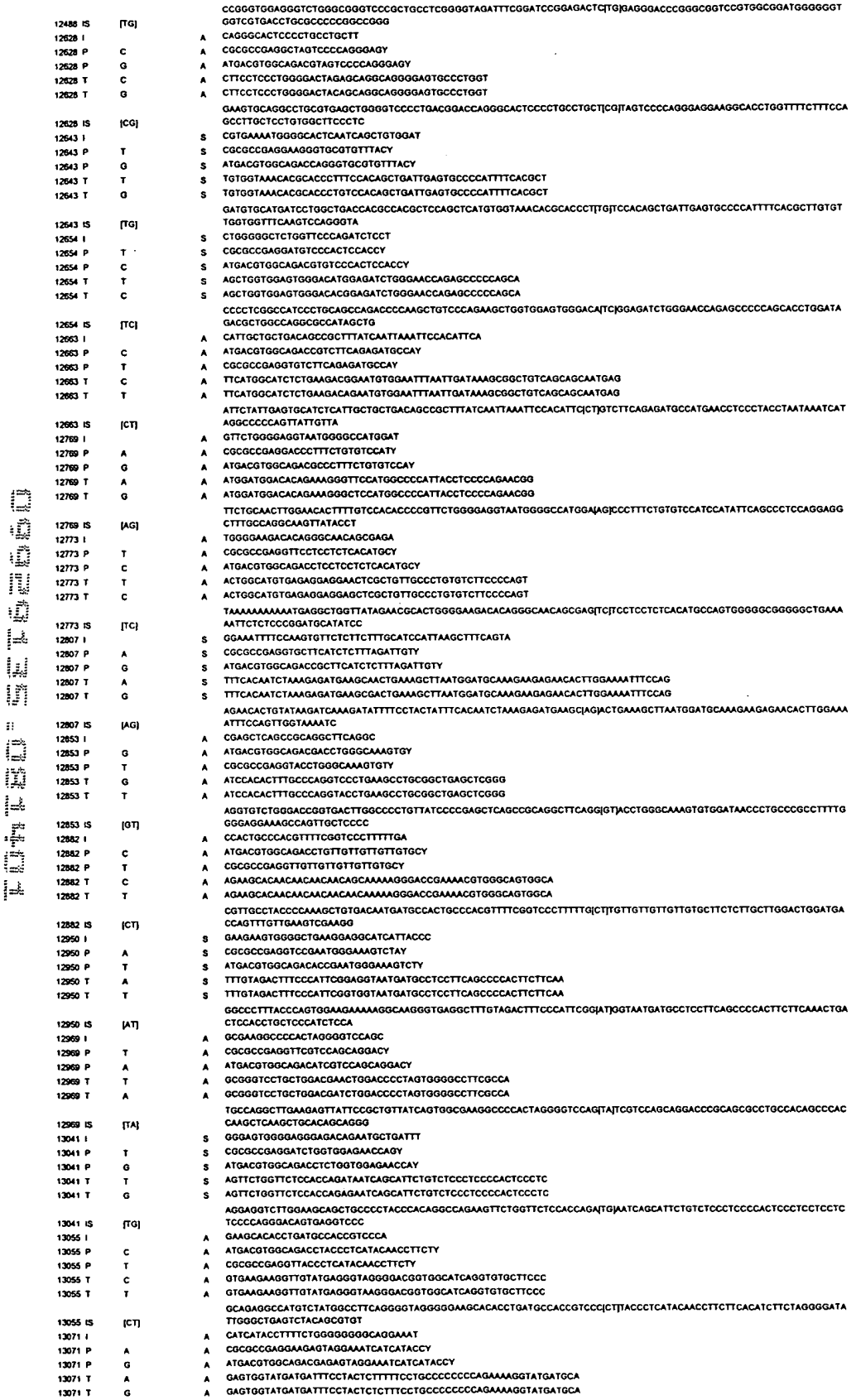
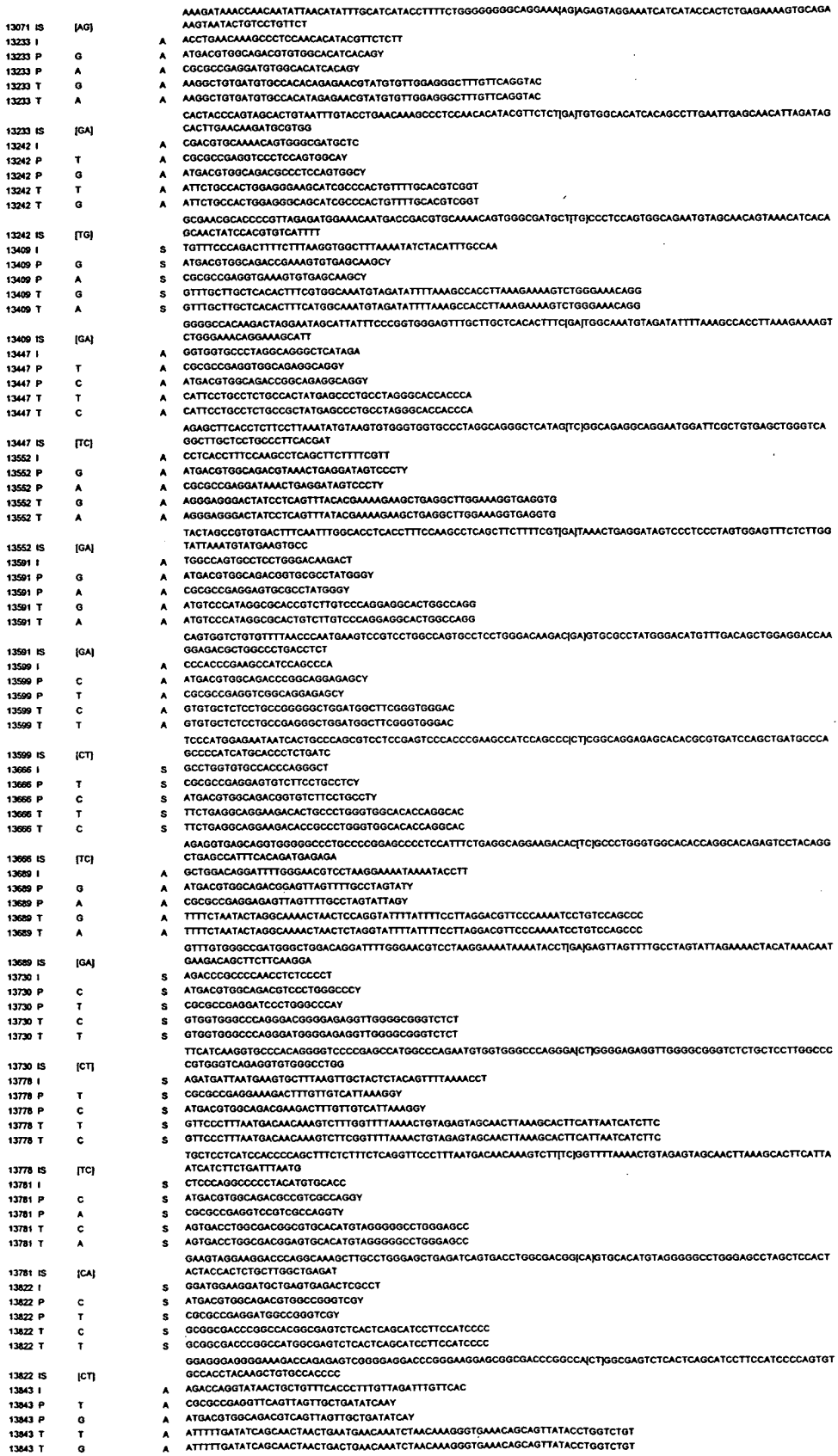

CCGGGTGGAGGGTCTGGGCGGGTCCCGCTGCCTCGGGGTAGATTTCGGATCCGGAGACTC[TG]GAGGGACCCGGGCGGTCCGTGGCGGATGGGGGGT
12488 IS [TG] GGTCGTGACCTGCGCCCCCGGCCGGG
12628 I A CAGGGCACTCCCCTGCCTGCTT
12628 P C A CGCGCCGAGGCTAGTCCCCAGGGAGY
12628 P G A ATGACGTGGCAGACGTAGTCCCCAGGGAGY
12628 T C A CTTCCTCCCTGGGGACTAGAGCAGGCAGGGGAGTGCCCTGGT
12628 T G A CTTCCTCCCTGGGGACTACAGCAGGCAGGGGAGTGCCCTGGT
GAAGTGCAGGCCTGCGTGAGCTGGGGTCCCCTGACGGACCAGGGCACTCCCCTGCCTGCT[CG]TAGTCCCCAGGGAGGAAGGCACCTGGTTTTCTTTCCA
12628 IS [CG] GCCTTGCTCCTGTGGCTTCCCTC
12643 I S CGTGAAAATGGGGCACTCAATCAGCTGTGGAT
12643 P T S CGCGCCGAGGAAGGGTGCGTGTTTACY
12643 P G S ATGACGTGGCAGACCAGGGTGCGTGTTTACY
12643 T T S TGTGGTAAACACGCACCCTTTCCACAGCTGATTGAGTGCCCCATTTTCACGCT
12643 T G S TGTGGTAAACACGCACCCTGTCCACAGCTGATTGAGTGCCCCATTTTCACGCT
GATGTGCATGATCCTGGCTGACCACGCCACGCTCCAGCTCATGTGGTAAACACGCACCCT[TG]TCCACAGCTGATTGAGTGCCCCATTTTCACGCTTGTGT
12643 IS [TG] TGGTGGTTTCAAGTCCAGGGTA
12654 I S CTGGGGGCTCTGGTTCCCAGATCTCCT
12654 P T S CGCGCCGAGGATGTCCCACTCCACCY
12654 P C S ATGACGTGGCAGACGTGTCCCACTCCACCY
12654 T T S AGCTGGTGGAGTGGGACATGGAGATCTGGGAACCAGAGCCCCCAGCA
12654 T C S AGCTGGTGGAGTGGGACACGGAGATCTGGGAACCAGAGCCCCCAGCA
CCCCTCGGCCATCCCTGCAGCCAGACCCCAAGCTGTCCCAGAAGCTGGTGGAGTGGGACA[TC]GGAGATCTGGGAACCAGAGCCCCCAGCACCTGGATA
12654 IS [TC] GACGCTGGCCAGGCGCCATAGCTG
12663 I A CATTGCTGCTGACAGCCGCTTTATCAATTAAATTCCACATTCA
12663 P C A ATGACGTGGCAGACCGTCTTCAGAGATGCCAY
12663 P T A CGCGCCGAGGTGTCTTCAGAGATGCCAY
12663 T C A TTCATGGCATCTCTGAAGACGGAATGTGGAATTTAATTGATAAAGCGGCTGTCAGCAGCAATGAG
12663 T T A TTCATGGCATCTCTGAAGACAGAATGTGGAATTTAATTGATAAAGCGGCTGTCAGCAGCAATGAG
ATTCTATTGAGTGCATCTCATTGCTGCTGACAGCCGCTTTATCAATTAAATTCCACATTC[CT]GTCTTCAGAGATGCCATGAACCTCCCTACCTAATAAATCAT
12663 IS [CT] AGGCCCCCAGTTATTGTTA
12769 I A GTTCTGGGGAGGTAATGGGGCCATGGAT
12769 P A A CGCGCCGAGGACCCTTTCTGTGTCCATY
12769 P G A ATGACGTGGCAGACGCCCTTTCTGTGTCCAY
12769 T A A ATGGATGGACACAGAAAGGGTTCCATGGCCCCATTACCTCCCCAGAACGG
12769 T G A ATGGATGGACACAGAAAGGGCTCCATGGCCCCATTACCTCCCCAGAACGG
TTCTGCAACTTGGAACACTTTTGTCCACACCCCGTTCTGGGGAGGTAATGGGGCCATGGA[AG]CCCTTTCTGTGTCCATCCATATTCAGCCCTCCAGGAGG
12769 IS [AG] CTTTGCCAGGCAAGTTATACCT
12773 I A TGGGGAAGACACAGGGCAACAGCGAGA
12773 P T A CGCGCCGAGGTTCCTCCTCTCACATGCY
12773 P C A ATGACGTGGCAGACCTCCTCCTCTCACATGCY
12773 T T A ACTGGCATGTGAGAGGAGGAACTCGCTGTTGCCCTGTGTCTTCCCCAGT
12773 T C A ACTGGCATGTGAGAGGAGGAGCTCGCTGTTGCCCTGTGTCTTCCCCAGT
TAAAAAAAAAAATGAGGCTGGTTATAGAACGCACTGGGGAAGACACAGGGCAACAGCGAG[TC]TCCTCCTCTCACATGCCAGTGGGGGCGGGGGCTGAAA
12773 IS [TC] AATTCTCTCCCGGATGCATATCC
12807 I S GGAAATTTTCCAAGTGTTCTCTTCTTTGCATCCATTAAGCTTTCAGTA
12807 P A S CGCGCCGAGGTGCTTCATCTCTTTAGATTGTY
12807 P G S ATGACGTGGCAGACCGCTTCATCTCTTTAGATTGTY
12807 T A S TTTCACAATCTAAAGAGATGAAGCAACTGAAAGCTTAATGGATGCAAAGAAGAGAACACTTGGAAAATTTCCAG
12807 T G S TTTCACAATCTAAAGAGATGAAGCGACTGAAAGCTTAATGGATGCAAAGAAGAGAACACTTGGAAAATTTCCAG
AGAACACTGTATAAGATCAAAGATATTTTCCTACTATTTCACAATCTAAAGAGATGAAGC[AG]ACTGAAAGCTTAATGGATGCAAAGAAGAGAACACTTGGAAA
12807 IS [AG] ATTTCCAGTTGGTAAAATC
12853 I A CGAGCTCAGCCGCAGGCTTCAGGC
12853 P G A ATGACGTGGCAGACGACCTGGGCAAAGTGY
12853 P T A CGCGCCGAGGTACCTGGGCAAAGTGTY
12853 T G A ATCCACACTTTGCCCAGGTCCCTGAAGCCTGCGGCTGAGCTCGGG
12853 T T A ATCCACACTTTGCCCAGGTACCTGAAGCCTGCGGCTGAGCTCGGG
AGGTGTCTGGGACCGGTGACTTGGCCCCTGTTATCCCCGAGCTCAGCCGCAGGCTTCAGG[GT]ACCTGGGCAAAGTGTGGATAACCCTGCCCGCCTTTTG
12853 IS [GT] GGGAGGAAAGCCAGTTGCTCCCC
12882 I A CCACTGCCCACGTTTTCGGTCCCTTTTTGA
12882 P C A ATGACGTGGCAGACCTGTTGTTGTTGTTGTGCY
12882 P T A CGCGCCGAGGTTGTTGTTGTTGTTGTGCY
12882 T C A AGAAGCACAACAACAACAACAGCAAAAAGGGACCGAAAACGTGGGCAGTGGCA
12882 T T A AGAAGCACAACAACAACAACAACAAAAAGGGACCGAAAACGTGGGCAGTGGCA
CGTTGCCTACCCCAAAGCTGTGACAATGATGCCACTGCCCACGTTTTCGGTCCCTTTTTG[CT]TGTTGTTGTTGTTGTGCTTCTCTTGCTTGGACTGGATGA
12882 IS [CT] CCAGTTTGTTGAAGTCGAAGG
12950 I S GAAGAAGTGGGGCTGAAGGAGGCATCATTACCC
12950 P A S CGCGCCGAGGTCCGAATGGGAAAGTCTAY
12950 P T S ATGACGTGGCAGACACCGAATGGGAAAGTCTY
12950 T A S TTTGTAGACTTTCCCATTCGGAGGTAATGATGCCTCCTTCAGCCCCACTTCTTCAA
12950 T T S TTTGTAGACTTTCCCATTCGGTGGTAATGATGCCTCCTTCAGCCCCACTTCTTCAA
GGCCCTTTACCCAGTGGAAGAAAAAGGCAAGGGTGAGGCTTTGTAGACTTTCCCATTCGG[AT]GGTAATGATGCCTCCTTCAGCCCCACTTCTTCAAACTGA
12950 IS [AT] CTCCACCTGCTCCCATCTCCA
12969 I A GCGAAGGCCCCACTAGGGGTCCAGC
12969 P T A CGCGCCGAGGTTCGTCCAGCAGGACY
12969 P A A ATGACGTGGCAGACATCGTCCAGCAGGACY
12969 T T A GCGGGTCCTGCTGGACGAACTGGACCCCTAGTGGGGCCTTCGCCA
12969 T A A GCGGGTCCTGCTGGACGATCTGGACCCCTAGTGGGGCCTTCGCCA
TGCCAGGCTTGAAGAGTTATTCCGCTGTTATCAGTGGCGAAGGCCCCACTAGGGGTCCAG[TA]TCGTCCAGCAGGACCCGCAGCGCCTGCCACAGCCCAC
12969 IS [TA] CAAGCTCAAGCTGCACAGCAGGG
13041 I S GGGAGTGGGGAGGGAGACAGAATGCTGATTT
13041 P T S CGCGCCGAGGATCTGGTGGAGAACCAGY
13041 P G S ATGACGTGGCAGACCTCTGGTGGAGAACCAY
13041 T T S AGTTCTGGTTCTCCACCAGATAATCAGCATTCTGTCTCCCTCCCCACTCCCTC
13041 T G S AGTTCTGGTTCTCCACCAGAGAATCAGCATTCTGTCTCCCTCCCCACTCCCTC
AGGAGGTCTTGGAAGCAGCTGCCCCTACCCACAGGCCAGAAGTTCTGGTTCTCCACCAGA[TG]AATCAGCATTCTGTCTCCCTCCCCACTCCCTCCTCCTC
13041 IS [TG] TCCCCAGGGACAGTGAGGTCCC
13055 I A GAAGCACACCTGATGCCACCGTCCCA
13055 P C A ATGACGTGGCAGACCTACCCTCATACAACCTTCTY
13055 P T A CGCGCCGAGGTTACCCTCATACAACCTTCTY
13055 T C A GTGAAGAAGGTTGTATGAGGGTAGGGGACGGTGGCATCAGGTGTGCTTCCC
13055 T T A GTGAAGAAGGTTGTATGAGGGTAAGGGACGGTGGCATCAGGTGTGCTTCCC
GCAGAGGCCATGTCTATGGCCTTCAGGGGTAGGGGGAAGCACACCTGATGCCACCGTCCC[CT]TACCCTCATACAACCTTCTTCACATCTTCTAGGGGATA
13055 IS [CT] TTGGGCTGAGTCTACAGCGTGT
13071 I A CATCATACCTTTTCTGGGGGGGGCAGGAAAT
13071 P A A CGCGCCGAGGAAGAGTAGGAAATCATCATACCY
13071 P G A ATGACGTGGCAGACGAGAGTAGGAAATCATCATACCY
13071 T A A GAGTGGTATGATGATTTCCTACTCTTTTTCCTGCCCCCCCCAGAAAAGGTATGATGCA
13071 T G A GAGTGGTATGATGATTTCCTACTCTCTTTCCTGCCCCCCCCAGAAAAGGTATGATGCA

FIGURE 129E



PWP2H

ETV6

FIGURE 129E

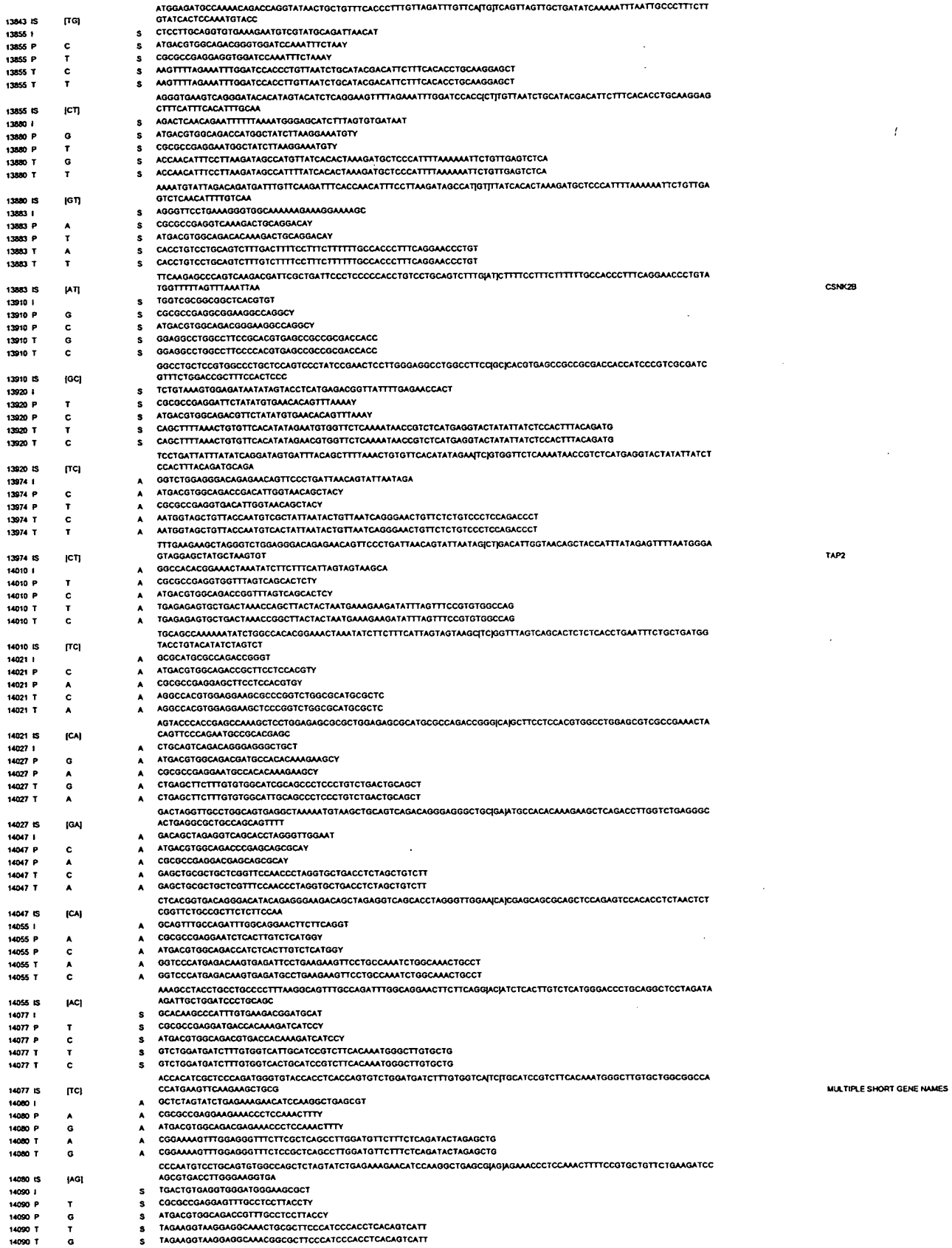

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13843 tS [TG] GTATCACTCCAAATGTACC
13855 t S CTCCTTGCAGGTGTGAAAGAATGTCGTATGCAGATTAACAT
13855 P C S ATGACGTGGCAGACGGGTGGATCCAAATTTCTAAY
13855 P T S CGCGCCGAGGAGGTGGATCCAAATTTCTAAAY
13855 T C S AAGTTTTAGAAATTTGGATCCACCCTGTTAATCTGCATACGACATTCTTTCACACCTGCAAGGAGCT
13855 T T S AAGTTTTAGAAATTTGGATCCACCTTGTTAATCTGCATACGACATTCTTTCACACCTGCAAGGAGCT
AGGGTGAAGTCAGGGATACACATAGTACATCTCAGGAAGTTTTAGAAATTTGGATCCACC[CT]TGTTAATCTGCATACGACATTCTTTCACACCTGCAAGGAG
13855 tS [CT] CTTTCATTTCACATTTGCAA
13880 t S AGACTCAACAGAATTTTTTAAAATGGGAGCATCTTTAGTGTGATAAT
13880 P G S ATGACGTGGCAGACCATGGCTATCTTAAGGAAATGTY
13880 P T S CGCGCCGAGGAATGGCTATCTTAAGGAAATGTY
13880 T G S ACCAACATTTCCTTAAGATAGCCATGTTATCACACTAAAGATGCTCCCATTTTAAAAAATTCTGTTGAGTCTCA
13880 T T S ACCAACATTTCCTTAAGATAGCCATTTTATCACACTAAAGATGCTCCCATTTTAAAAAATTCTGTTGAGTCTCA
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13880 tS [GT] GTCTCAACATTTTGTCAA
13883 t S AGGGTTCCTGAAAGGGTGGCAAAAAAGAAAGGAAAAGC
13883 P A S CGCGCCGAGGTCAAAGACTGCAGGACAY
13883 P T S ATGACGTGGCAGACACAAAGACTGCAGGACAY
13883 T A S CACCTGTCCTGCAGTCTTTGACTTTTCCTTTCTTTTTTGCCACCCTTTCAGGAACCCTGT
13883 T T S CACCTGTCCTGCAGTCTTTGTCTTTTCCTTTCTTTTTTGCCACCCTTTCAGGAACCCTGT
TTCAAGAGCCCAGTCAAGACGATTCGCTGATTCCCTCCCCCACCTGTCCTGCAGTCTTTG[AT]CTTTTCCTTTCTTTTTTGCCACCCTTTCAGGAACCCTGTA
13883 tS [AT] TGGTTTTTAGTTTAAATTAA CSNK2B
13910 t S TGGTCGCGGCGGCTCACGTGT
13910 P G S CGCGCCGAGGCGGAAGGCCAGGCY
13910 P C S ATGACGTGGCAGACGGGAAGGCCAGGCY
13910 T G S GGAGGCCTGGCCTTCCGCACGTGAGCCGCCGCGACCACC
13910 T C S GGAGGCCTGGCCTTCCCCACGTGAGCCGCCGCGACCACC
GGCCTGCTCCGTGGCCCTGCTCCAGTCCCTATCCGAACTCCTTGGGAGGCCTGGCCTTCC[GC]CACGTGAGCCGCCGCGACCACCATCCCGTCGCGATC
13910 tS [GC] GTTTCTGGACCGCTTTCCACTCCC
13920 t S TCTGTAAAGTGGAGATAATATAGTACCTCATGAGACGGTTATTTTGAGAACCACT
13920 P T S CGCGCCGAGGATTCTATATGTGAACACAGTTTAAAAY
13920 P C S ATGACGTGGCAGACGTTCTATATGTGAACACAGTTTAAAY
13920 T T S CAGCTTTTAAACTGTGTTCACATATAGAATGTGGTTCTCAAAATAACCGTCTCATGAGGTACTATATTATCTCCACTTTACAGATG
13920 T C S CAGCTTTTAAACTGTGTTCACATATAGAACGTGGTTCTCAAAATAACCGTCTCATGAGGTACTATATTATCTCCACTTTACAGATG
TCCTGATTATTTATATCAGGATAGTGATTTACAGCTTTTAAACTGTGTTCACATATAGAA[TC]GTGGTTCTCAAAATAACCGTCTCATGAGGTACTATATTATCT
13920 tS [TC] CCACTTTACAGATGCAGA
13974 t A GGTCTGGAGGGACAGAGAACAGTTCCCTGATTAACAGTATTAATAGA
13974 P C A ATGACGTGGCAGACCGACATTGGTAACAGCTACY
13974 P T A CGCGCCGAGGTGACATTGGTAACAGCTACY
13974 T C A AATGGTAGCTGTTACCAATGTCGCTATTAATACTGTTAATCAGGGAACTGTTCTCTGTCCCTCCAGACCCT
13974 T T A AATGGTAGCTGTTACCAATGTCACTATTAATACTGTTAATCAGGGAACTGTTCTCTGTCCCTCCAGACCCT
TTTGAAGAAGCTAGGGTCTGGAGGGACAGAGAACAGTTCCCTGATTAACAGTATTAATAG[CT]GACATTGGTAACAGCTACCATTTATAGAGTTTTAATGGGA
13974 tS [CT] GTAGGAGCTATGCTAAGTGT TAP2
14010 t A GGCCACACGGAAACTAAATATCTTCTTTCATTAGTAGTAAGCA
14010 P T A CGCGCCGAGGTGGTTTAGTCAGCACTCTY
14010 P C A ATGACGTGGCAGACCGGTTTAGTCAGCACTCY
14010 T T A TGAGAGAGTGCTGACTAAACCAGCTTACTACTAATGAAAGAAGATATTTAGTTTCCGTGTGGCCAG
14010 T C A TGAGAGAGTGCTGACTAAACCGGCTTACTACTAATGAAAGAAGATATTTAGTTTCCGTGTGGCCAG
TGCAGCCAAAAAATATCTGGCCACACGGAAACTAAATATCTTCTTTCATTAGTAGTAAGC[TC]GGTTTAGTCAGCACTCTCTCACCTGAATTTCTGCTGATGG
14010 tS [TC] TACCTGTACATATCTAGTCT
14021 t A GCGCATGCGCCAGACCGGGT
14021 P C A ATGACGTGGCAGACCGCTTCCTCCACGTY
14021 P A A CGCGCCGAGGAGCTTCCTCCACGTGY
14021 T C A AGGCCACGTGGAGGAAGCTCCCGGTCTGGCGCATGCGCTC
14021 T A A AGGCCACGTGGAGGAAGCTCCCGGTCTGGCGCATGCGCTC
AGTACCCACCGAGCCAAAGCTCCTGGAGAGCGCGCTGGAGAGCGCATGCGCCAGACCGGG[CA]GCTTCCTCCACGTGGCCTGGAGCGTCGCCGAAACTA
14021 tS [CA] CAGTTCCCAGAATGCCGCACGAGC
14027 t A CTGCAGTCAGACAGGGAGGGCTGCT
14027 P G A ATGACGTGGCAGACGATGCCACACAAAGAAGCY
14027 P A A CGCGCCGAGGAATGCCACACAAAGAAGCY
14027 T G A CTGAGCTTCTTTGTGTGGCATCGCAGCCCTCCCTGTCTGACTGCAGCT
14027 T A A CTGAGCTTCTTTGTGTGGCATTGCAGCCCTCCCTGTCTGACTGCAGCT
GACTAGGTTGCCTGGCAGTGAGGCTAAAAATGTAAGCTGCAGTCAGACAGGGAGGGCTGC[GA]ATGCCACACAAAGAAGCTCAGACCTTGGTCTGAGGGC
14027 tS [GA] ACTGAGGCGCTGCCAGCAGTTTT
14047 t A GACAGCTAGAGGTCAGCACCTAGGGTTGGAAT
14047 P C A ATGACGTGGCAGACCCGAGCAGCGCAY
14047 P A A CGCGCCGAGGACGAGCAGCGCAY
14047 T C A GAGCTGCGCTGCTCGGTTCCAACCCTAGGTGCTGACCTCTAGCTGTCTT
14047 T A A GAGCTGCGCTGCTCGTTTCCAACCCTAGGTGCTGACCTCTAGCTGTCTT
CTCACGGTGACAGGGACATACAGAGGGAAGACAGCTAGAGGTCAGCACCTAGGGTTGGAA[CA]CGAGCAGCGCAGCTCCAGAGTCCACACCTCTAACTCT
14047 tS [CA] CGGTTCTGCCGCTTCTCTTCCAA
14055 t A GCAGTTTGCCAGATTTGGCAGGAACTTCTTCAGGT
14055 P A A CGCGCCGAGGAATCTCACTTGTCTCATGGY
14055 P C A ATGACGTGGCAGACCATCTCACTTGTCTCATGGY
14055 T A A GGTCCCATGAGACAAGTGAGATTCCTGAAGAAGTTCCTGCCAAATCTGGCAAACTGCCT
14055 T C A GGTCCCATGAGACAAGTGAGATGCCTGAAGAAGTTCCTGCCAAATCTGGCAAACTGCCT
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14055 tS [AC] AGATTGCTGGATCCCTGCAGC
14077 t S GCACAAGCCCATTTGTGAAGACGGATGCAT
14077 P T S CGCGCCGAGGATGACCACAAAGATCATCCY
14077 P C S ATGACGTGGCAGACGTGACCACAAAGATCATCCY
14077 T T S GTCTGGATGATCTTTGTGGTCATTGCATCCGTCTTCACAAATGGGCTTGTGCTG
14077 T C S GTCTGGATGATCTTTGTGGTCACTGCATCCGTCTTCACAAATGGGCTTGTGCTG
ACCACATCGCTCCCAGATGGGTGTACCACCTCACCAGTGTCTGGATGATCTTTGTGGTCA[TC]TGCATCCGTCTTCACAAATGGGCTTGTGCTGGCGGCCA
14077 tS [TC] CCATGAAGTTCAAGAAGCTGCG MULTIPLE SHORT GENE NAMES
14080 t A GCTCTAGTATCTGAGAAAGAACATCCAAGGCTGAGCGT
14080 P A A CGCGCCGAGGAAGAAACCCTCCAAACTTTY
14080 P G A ATGACGTGGCAGACGAGAAACCCTCCAAACTTTY
14080 T A A CGGAAAAGTTTGGAGGGTTTCTTCGCTCAGCCTTGGATGTTCTTTCTCAGATACTAGAGCTG
14080 T G A CGGAAAAGTTTGGAGGGTTTCTCCGCTCAGCCTTGGATGTTCTTTCTCAGATACTAGAGCTG
CCCAATGTCCTGCAGTGTGGCCAGCTCTAGTATCTGAGAAAGAACATCCAAGGCTGAGCG[AG]AGAAACCCTCCAAACTTTTCCGTGCTGTTCTGAAGATCC
14080 tS [AG] AGCGTGACCTTGGGAAGGTGA
14090 t S TGACTGTGAGGTGGGATGGGAAGCGCT
14090 P T S CGCGCCGAGGAGTTTGCCTCCTTACCTY
14090 P G S ATGACGTGGCAGACCGTTTGCCTCCTTACCY
14090 T T S TAGAAGGTAAGGAGGCAAACTGCGCTTCCCATCCCACCTCACAGTCATT
14090 T G S TAGAAGGTAAGGAGGCAAACGGCGCTTCCCATCCCACCTCACAGTCATT

FIGURE 129E

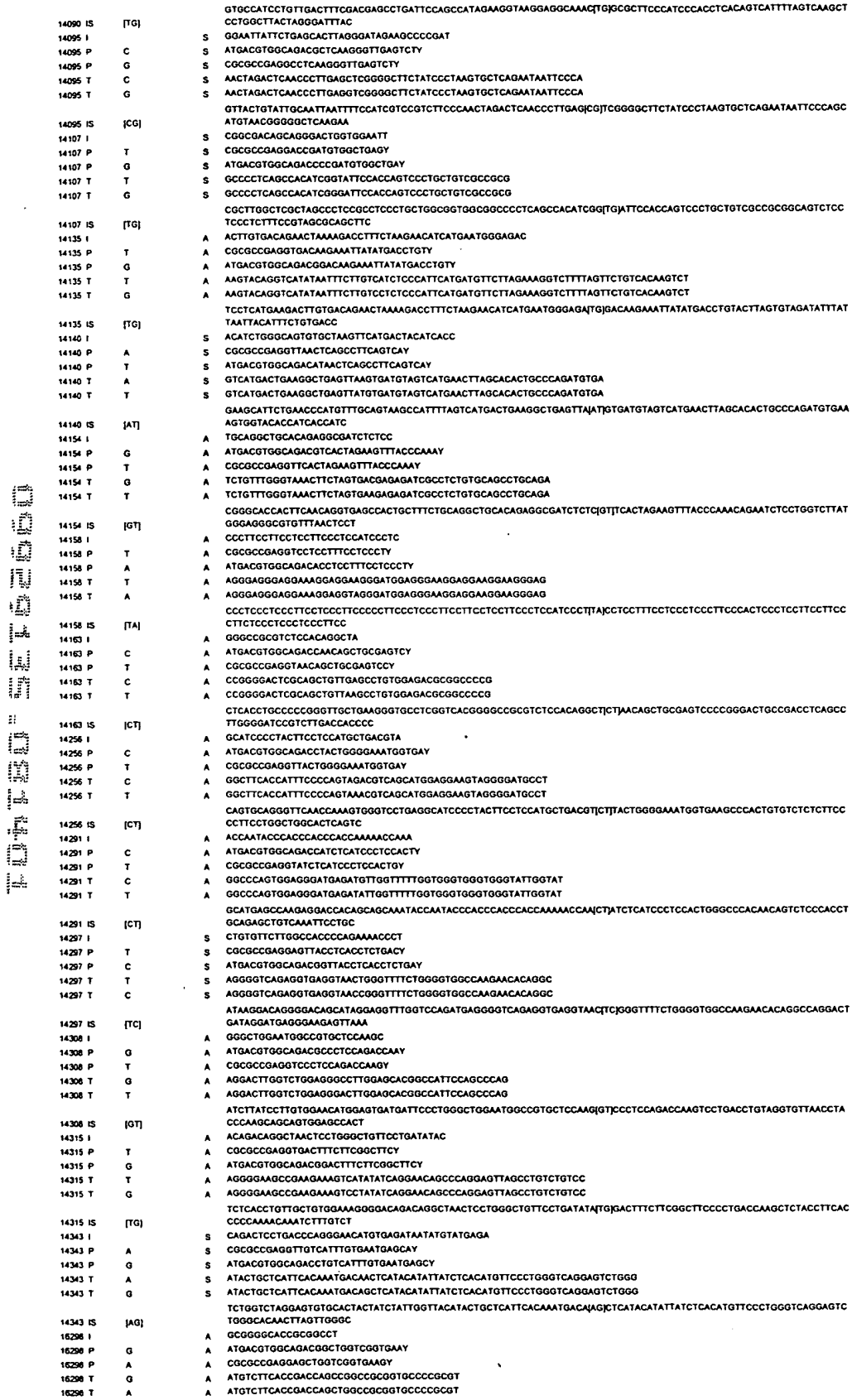

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14090 IS [TG] CCTGGCTTACTAGGGATTTAC
14095 I S GGAATTATTCTGAGCACTTAGGGATAGAAGCCCCGAT
14095 P C S ATGACGTGGCAGACGCTCAAGGGTTGAGTCTY
14095 P G S CGCGCCGAGGCCTCAAGGGTTGAGTCTY
14095 T C S AACTAGACTCAACCCTTGAGCTCGGGGCTTCTATCCCTAAGTGCTCAGAATAATTCCCA
14095 T G S AACTAGACTCAACCCTTGAGGTCGGGGCTTCTATCCCTAAGTGCTCAGAATAATTCCCA
GTTACTGTATTGCAATTAATTTTCCATCGTCCGTCTTCCCAACTAGACTCAACCCTTGAG[CG]TCGGGGCTTCTATCCCTAAGTGCTCAGAATAATTCCCAGC
14095 IS [CG] ATGTAACGGGGGCTCAAGAA
14107 I S CGGCGACAGCAGGGACTGGTGGAATT
14107 P T S CGCGCCGAGGACCGATGTGGCTGAGY
14107 P G S ATGACGTGGCAGACCCCGATGTGGCTGAY
14107 T T S GCCCCTCAGCCACATCGGTATTCCACCAGTCCCTGCTGTCGCCGCG
14107 T G S GCCCCTCAGCCACATCGGGATTCCACCAGTCCCTGCTGTCGCCGCG
CGCTTGGCTCGCTAGCCCTCCGCCTCCCTGCTGGCGGTGGCGGCCCCTCAGCCACATCGG[TG]ATTCCACCAGTCCCTGCTGTCGCCGCGGCAGTCTCC
14107 IS [TG] TCCCTCTTTCCGTAGCGCAGCTTC
14135 I A ACTTGTGACAGAACTAAAAGACCTTTCTAAGAACATCATGAATGGGAGAC
14135 P T A CGCGCCGAGGTGACAAGAAATTATATGACCTGTY
14135 P G A ATGACGTGGCAGACGGACAAGAAATTATATGACCTGTY
14135 T T A AAGTACAGGTCATATAATTTCTTGTCATCTCCCATTCATGATGTTCTTAGAAAGGTCTTTTAGTTCTGTCACAAGTCT
14135 T G A AAGTACAGGTCATATAATTTCTTGTCCTCTCCCATTCATGATGTTCTTAGAAAGGTCTTTTAGTTCTGTCACAAGTCT
TCCTCATGAAGACTTGTGACAGAACTAAAAGACCTTTCTAAGAACATCATGAATGGGAGA[TG]GACAAGAAATTATATGACCTGTACTTAGTGTAGATATTTAT
14135 IS [TG] TAATTACATTTCTGTGACC
14140 I S ACATCTGGGCAGTGTGCTAAGTTCATGACTACATCACC
14140 P A S CGCGCCGAGGTTAACTCAGCCTTCAGTCAY
14140 P T S ATGACGTGGCAGACATAACTCAGCCTTCAGTCAY
14140 T A S GTCATGACTGAAGGCTGAGTTAAGTGATGTAGTCATGAACTTAGCACACTGCCCAGATGTGA
14140 T T S GTCATGACTGAAGGCTGAGTTATGTGATGTAGTCATGAACTTAGCACACTGCCCAGATGTGA
GAAGCATTCTGAACCCATGTTTGCAGTAAGCCATTTTAGTCATGACTGAAGGCTGAGTTA[AT]GTGATGTAGTCATGAACTTAGCACACTGCCCAGATGTGAA
14140 IS [AT] AGTGGTACACCATCACCATC
14154 I A TGCAGGCTGCACAGAGGCGATCTCTCC
14154 P G A ATGACGTGGCAGACGTCACTAGAAGTTTACCCAAAY
14154 P T A CGCGCCGAGGTTCACTAGAAGTTTACCCAAAY
14154 T G A TCTGTTTGGGTAAACTTCTAGTGACGAGAGATCGCCTCTGTGCAGCCTGCAGA
14154 T T A TCTGTTTGGGTAAACTTCTAGTGAAGAGAGATCGCCTCTGTGCAGCCTGCAGA
CGGGCACCACTTCAACAGGTGAGCCACTGCTTTCTGCAGGCTGCACAGAGGCGATCTCTC[GT]TCACTAGAAGTTTACCCAAACAGAATCTCCTGGTCTTAT
14154 IS [GT] GGGAGGGCGTGTTTAACTCCT
14158 I A CCCTTCCTTCCTCCTTCCCTCCATCCCTC
14158 P T A CGCGCCGAGGTCCTCCTTTCCTCCCTY
14158 P A A ATGACGTGGCAGACACCTCCTTTCCTCCCTY
14158 T T A AGGGAGGGAGGAAAGGAGGAAGGGATGGAGGGAAGGAGGAAGGAAGGGAG
14158 T A A AGGGAGGGAGGAAAGGAGGTAGGGATGGAGGGAAGGAGGAAGGAAGGGAG
CCCTCCCTCCCTTCCTCCCTTCCCCCTTCCCTCCCTTCCTTCCTCCTTCCCTCCATCCCT[TA]CCTCCTTTCCTCCCTCCCTTCCCACTCCCTCCTTCCTTCC
14158 IS [TA] CTTCTCCCTCCCTCCCTTCC
14163 I A GGGCCGCGTCTCCACAGGCTA
14163 P C A ATGACGTGGCAGACCAACAGCTGCGAGTCY
14163 P T A CGCGCCGAGGTAACAGCTGCGAGTCCY
14163 T C A CCGGGGACTCGCAGCTGTTGAGCCTGTGGAGACGCGGCCCCG
14163 T T A CCGGGGACTCGCAGCTGTTAAGCCTGTGGAGACGCGGCCCCG
CTCACCTGCCCCCGGGTTGCTGAAGGGTGCCTCGGTCACGGGGCCGCGTCTCCACAGGCT[CT]AACAGCTGCGAGTCCCCGGGACTGCCGACCTCAGCC
14163 IS [CT] TTGGGGATCCGTCTTGACCACCCC
14256 I A GCATCCCCTACTTCCTCCATGCTGACGTA
14256 P C A ATGACGTGGCAGACCTACTGGGGAAATGGTGAY
14256 P T A CGCGCCGAGGTTACTGGGGAAATGGTGAY
14256 T C A GGCTTCACCATTTCCCCAGTAAACGTCAGCATGGAGGAAGTAGGGGATGCCT
14256 T T A GGCTTCACCATTTCCCCAGTAAACGTCAGCATGGAGGAAGTAGGGGATGCCT
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14256 IS [CT] CCTTCCTGGCTGGCACTCAGTC
14291 I A ACCAATACCCACCCACCCACCAAAAACCAAA
14291 P C A ATGACGTGGCAGACCATCTCATCCCTCCACTY
14291 P T A CGCGCCGAGGTATCTCATCCCTCCACTGY
14291 T C A GGCCCAGTGGAGGGATGAGATGTTGGTTTTTGGTGGGTGGGTGGGTATTGGTAT
14291 T T A GGCCCAGTGGAGGGATGAGATATTGGTTTTTGGTGGGTGGGTGGGTATTGGTAT
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14291 IS [CT] GCAGAGCTGTCAAATTCCTGC
14297 I S CTGTGTTCTTGGCCACCCCAGAAAACCCT
14297 P T S CGCGCCGAGGAGTTACCTCACCTCTGACY
14297 P C S ATGACGTGGCAGACGGTTACCTCACCTCTGAY
14297 T T S AGGGGTCAGAGGTGAGGTAACTGGGTTTTCTGGGGTGGCCAAGAACACAGGC
14297 T C S AGGGGTCAGAGGTGAGGTAACCGGGTTTTCTGGGGTGGCCAAGAACACAGGC
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14297 IS [TC] GATAGGATGAGGGAAGAGTTAAA
14308 I A GGGCTGGAATGGCCGTGCTCCAAGC
14308 P G A ATGACGTGGCAGACGCCCTCCAGACCAAY
14308 P T A CGCGCCGAGGTCCCTCCAGACCAAGY
14308 T G A AGGACTTGGTCTGGAGGGCCTTGGAGCACGGCCATTCCAGCCCAG
14308 T T A AGGACTTGGTCTGGAGGGACTTGGAGCACGGCCATTCCAGCCCAG
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14308 IS [GT] CCCAAGCAGCAGTGGAGCCACT
14315 I A ACAGACAGGCTAACTCCTGGGCTGTTCCTGATATAC
14315 P T A CGCGCCGAGGTGACTTTCTTCGGCTTCY
14315 P G A ATGACGTGGCAGACGGACTTTCTTCGGCTTCY
14315 T T A AGGGGAAGCCGAAGAAAGTCATATATCAGGAACAGCCCAGGAGTTAGCCTGTCTGTCC
14315 T G A AGGGGAAGCCGAAGAAAGTCCTATATCAGGAACAGCCCAGGAGTTAGCCTGTCTGTCC
TCTCACCTGTTGCTGTGGAAAGGGGACAGACAGGCTAACTCCTGGGCTGTTCCTGATATA[TG]GACTTTCTTCGGCTTCCCCTGACCAAGCTCTACCTTCAC
14315 IS [TG] CCCCAAAACAAATCTTTGTCT
14343 I S CAGACTCCTGACCCAGGGAACATGTGAGATAATATGTATGAGA
14343 P A S CGCGCCGAGGTTGTCATTTGTGAATGAGCAY
14343 P G S ATGACGTGGCAGACCTGTCATTTGTGAATGAGCY
14343 T A S ATACTGCTCATTCACAAATGACAACTCATACATATTATCTCACATGTTCCCTGGGTCAGGAGTCTGGG
14343 T G S ATACTGCTCATTCACAAATGACAGCTCATACATATTATCTCACATGTTCCCTGGGTCAGGAGTCTGGG
TCTGGTCTAGGAGTGTGCACTACTATCTATTGGTTACATACTGCTCATTCACAAATGACA[AG]CTCATACATATTATCTCACATGTTCCCTGGGTCAGGAGTC
14343 IS [AG] TGGGCACAACTTAGTTGGGC
16298 I A GCGGGGCACCGCGGCCT
16298 P G A ATGACGTGGCAGACGGCTGGTCGGTGAAY
16298 P A A CGCGCCGAGGAGCTGGTCGGTGAAGY
16298 T G A ATGTCTTCACCGACCAGCCGGCCGCGGTGCCCCGCGT
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FIGURE 129E

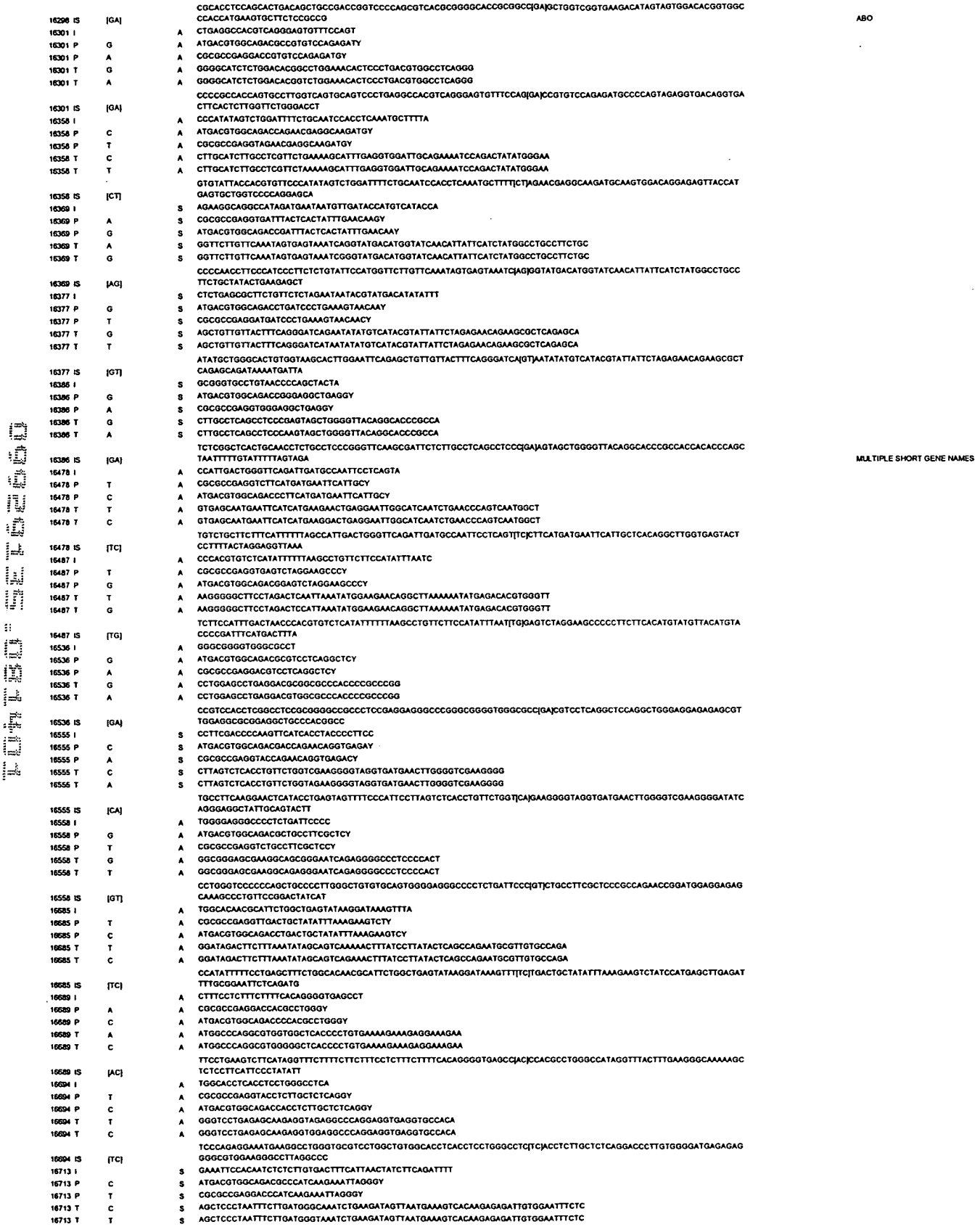
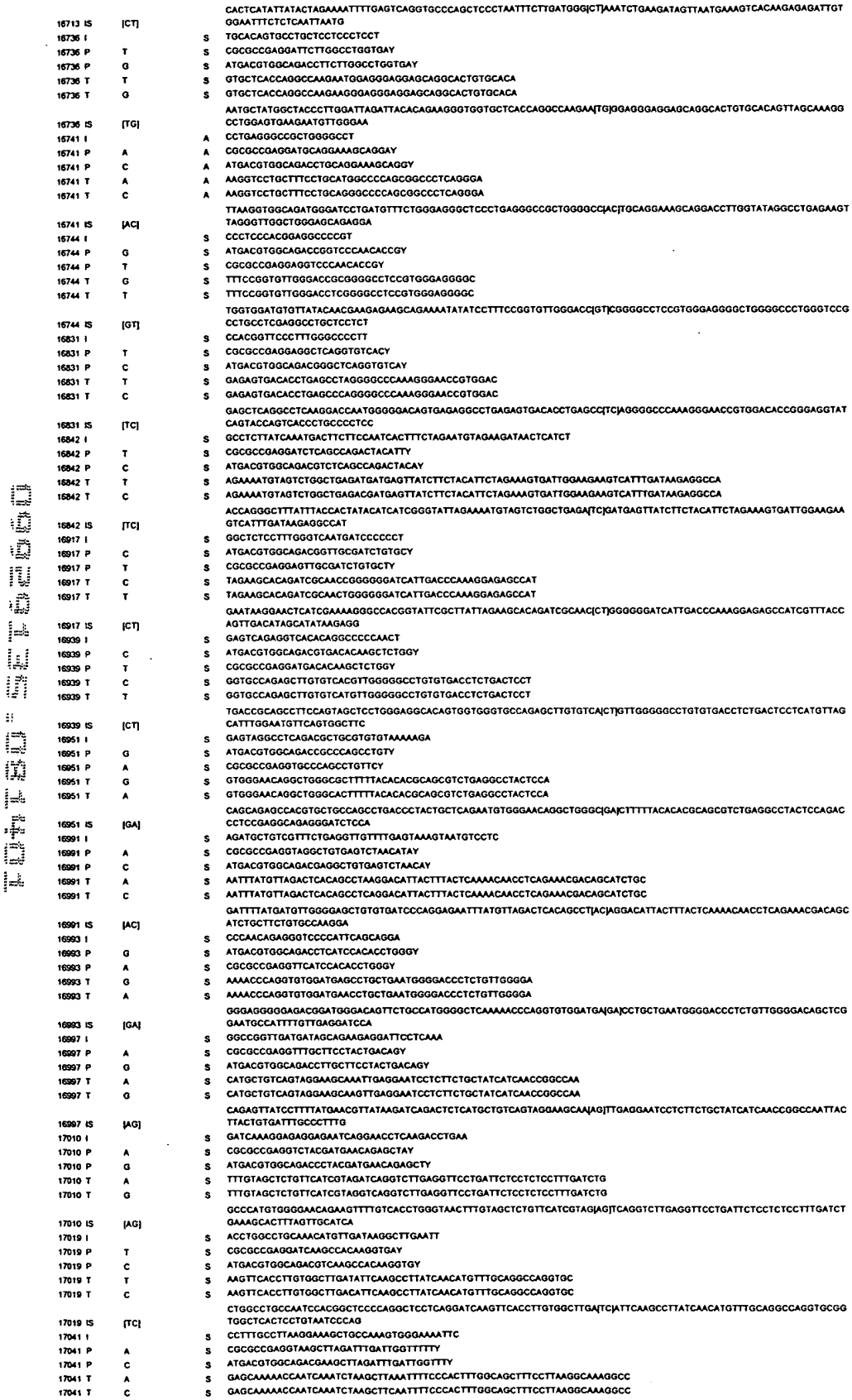


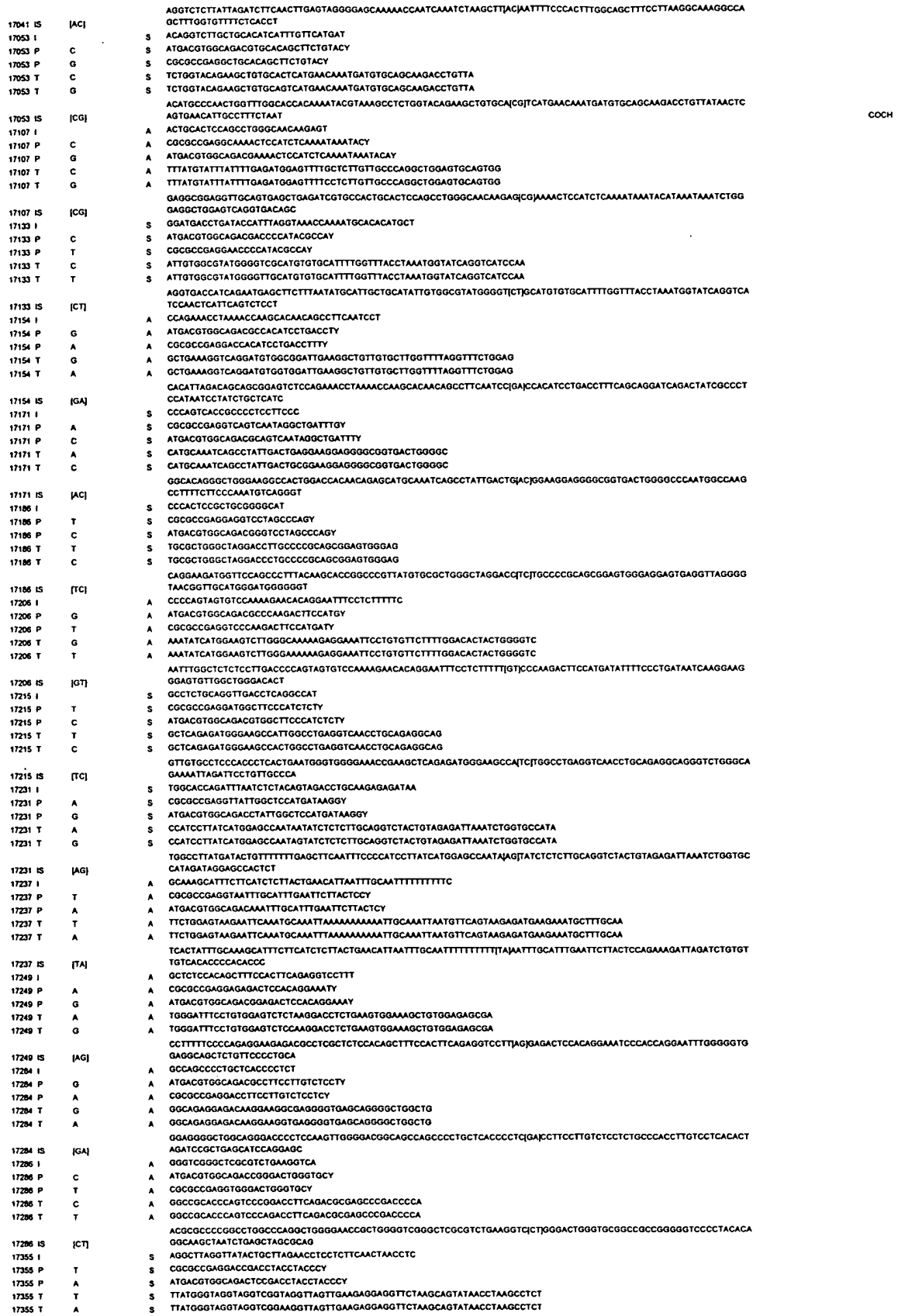
FIGURE 129E



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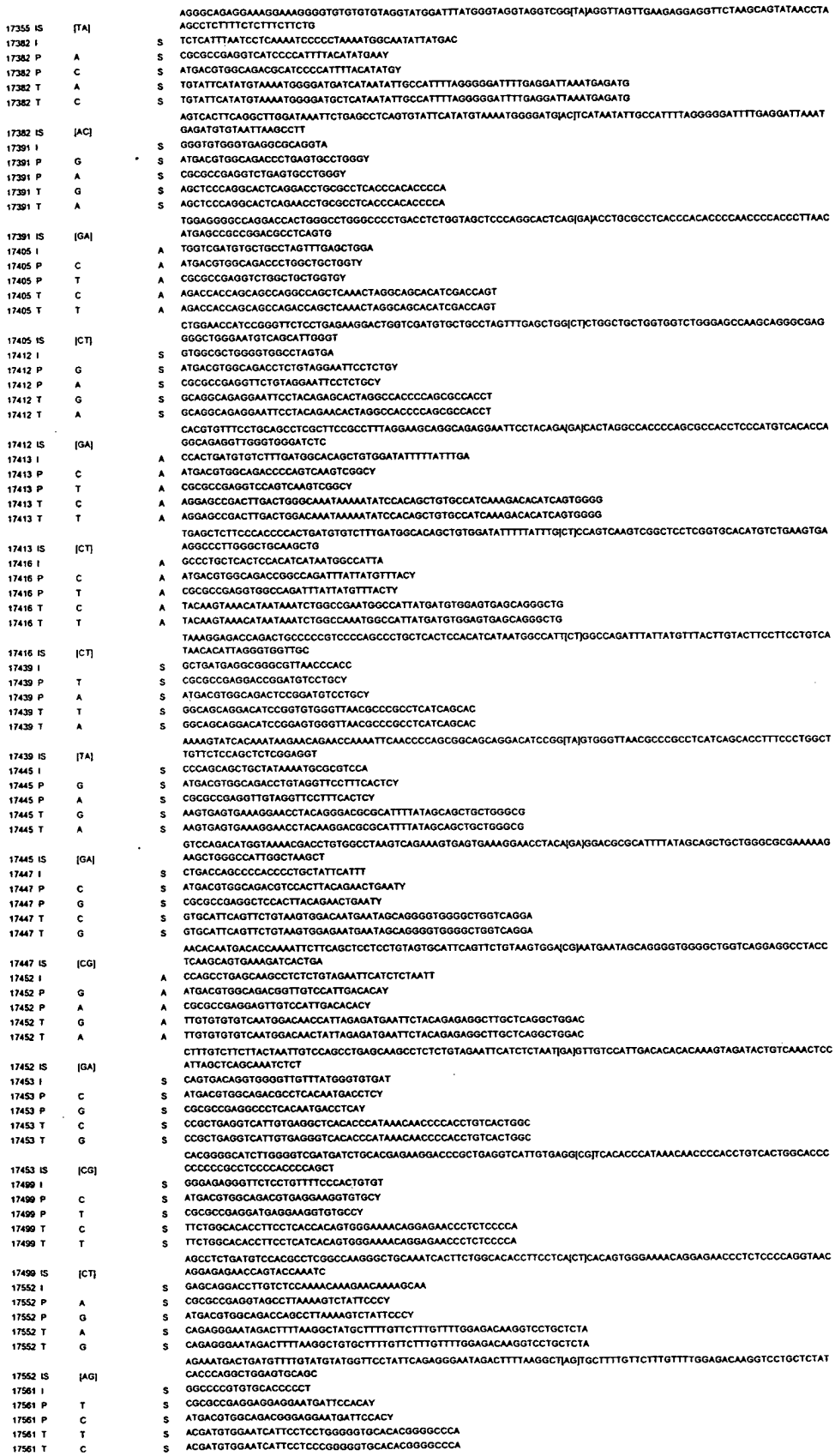
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FIGURE 129E



Filed: 11 July 2006

FIGURE 129E



Filed: June 30, 2006

FIGURE 129E

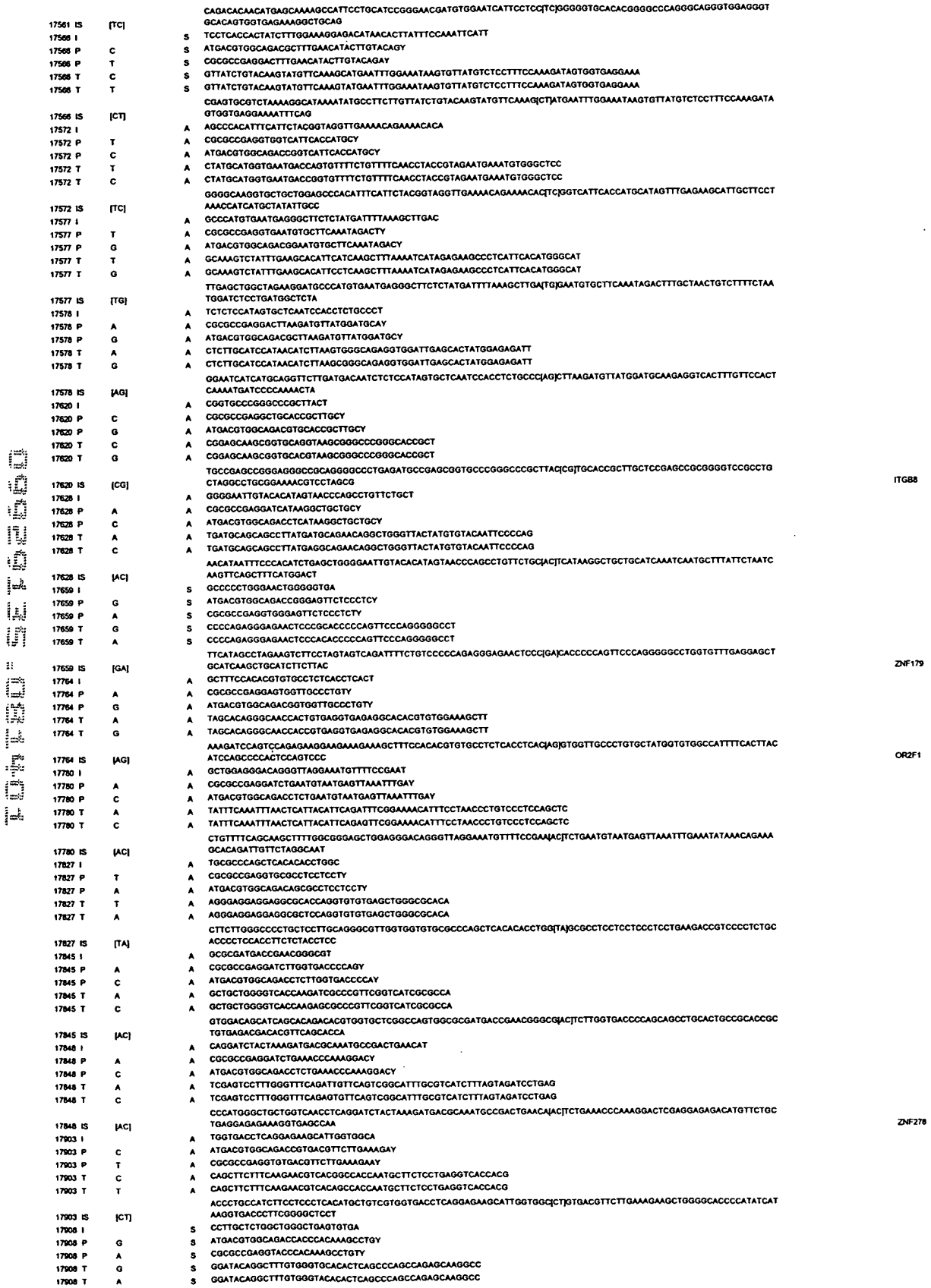
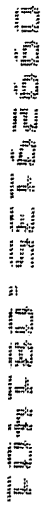

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17566 I S TCCTCACCACTATCTTTGGAAAGGAGACATAACACTTATTTCCAAATTCATT
17566 P C S ATGACGTGGCAGACGCTTTGAACATACTTGTACAGY
17566 P T S CGCGCCGAGGACTTTGAACATACTTGTACAGAY
17566 T C S GTTATCTGTACAAGTATGTTCAAAGCATGAATTTGGAAATAAGTGTTATGTCTCCTTTCCAAAGATAGTGGTGAGGAAA
17566 T T S GTTATCTGTACAAGTATGTTCAAAGTATGAATTTGGAAATAAGTGTTATGTCTCCTTTCCAAAGATAGTGGTGAGGAAA
17566 IS [CT] CGAGTGCGTCTAAAAGGCATAAAATATGCCTTCTTGTTATCTGTACAAGTATGTTCAAAG[CT]ATGAATTTGGAAATAAGTGTTATGTCTCCTTTCCAAAGATA GTGGTGAGGAAAATTTCAG
17572 I A AGCCCACATTTCATTCTACGGTAGGTTGAAAACAGAAAACACA
17572 P T A CGCGCCGAGGTGGTCATTCACCATGCY
17572 P C A ATGACGTGGCAGACCGGTCATTCACCATGCY
17572 T T A CTATGCATGGTGAATGACCAGTGTTTTCTGTTTTCAACCTACCGTAGAATGAAATGTGGGCTCC
17572 T C A CTATGCATGGTGAATGACCGGTGTTTTCTGTTTTCAACCTACCGTAGAATGAAATGTGGGCTCC
17572 IS [TC] GGGGCAAGGTGCTGCTGGAGCCCACATTTCATTCTACGGTAGGTTGAAAACAGAAAACAC[TC]GGTCATTCACCATGCATAGTTTGAGAAGCATTGCTTCCT AAACCATCATGCTATATTGCC
17577 I A GCCCATGTGAATGAGGGCTTCTCTATGATTTTAAAGCTTGAC
17577 P T A CGCGCCGAGGTGAATGTGCTTCAAATAGACTY
17577 P G A ATGACGTGGCAGACGGAATGTGCTTCAAATAGACY
17577 T T A GCAAAGTCTATTTGAAGCACATTCATCAAGCTTTAAAATCATAGAGAAGCCCTCATTCACATGGGCAT
17577 T G A GCAAAGTCTATTTGAAGCACATTCCTCAAGCTTTAAAATCATAGAGAAGCCCTCATTCACATGGGCAT
17577 IS [TG] TTGAGCTGGCTAGAAGGATGCCCATGTGAATGAGGGCTTCTCTATGATTTTAAAGCTTGA[TG]GAATGTGCTTCAAATAGACTTTGCTAACTGTCTTTTCTAA TGGATCTCCTGATGGCTCTA
17578 I A TCTCTCCATAGTGCTCAATCCACCTCTGCCCT
17578 P A A CGCGCCGAGGACTTAAGATGTTATGGATGCAY
17578 P G A ATGACGTGGCAGACGCTTAAGATGTTATGGATGCY
17578 T A A CTCTTGCATCCATAACATCTTAAGTGGGCAGAGGTGGATTGAGCACTATGGAGAGATT
17578 T G A CTCTTGCATCCATAACATCTTAAGCGGGCAGAGGTGGATTGAGCACTATGGAGAGATT
17578 IS [AG] GGAATCATCATGCAGGTTCTTGATGACAATCTCTCCATAGTGCTCAATCCACCTCTGCCC[AG]CTTAAGATGTTATGGATGCAAGAGGTCACTTTGTTCCACT CAAAATGATCCCCAAAACTA
17620 I A CGGTGCCCGGGCCCGCTTACT
17620 P C A CGCGCCGAGGCTGCACCGCTTGCY
17620 P G A ATGACGTGGCAGACGTGCACCGCTTGCY
17620 T C A CGGAGCAAGCGGTGCAGGTAAGCGGGCCCGGGCACCGCT
17620 T G A CGGAGCAAGCGGTGCACGTAAGCGGGCCCGGGCACCGCT
17620 IS [CG] TGCCGAGCCGGGAGGGCCGCAGGGGCCCTGAGATGCCGAGCGGTGCCCGGGCCCGCTTAC[CG]TGCACCGCTTGCTCCGAGCCGCGGGGTCCGCCTG CTAGGCCTGCGGAAAACGTCCTAGCG
17628 I A GGGGAATTGTACACATAGTAACCCAGCCTGTTCTGCT
17628 P A A CGCGCCGAGGATCATAAGGCTGCTGCY
17628 P C A ATGACGTGGCAGACCTCATAAGGCTGCTGCY
17628 T A A TGATGCAGCAGCCTTATGATGCAGAACAGGCTGGGTTACTATGTGTACAATTCCCCAG
17628 T C A TGATGCAGCAGCCTTATGAGGCAGAACAGGCTGGGTTACTATGTGTACAATTCCCCAG
17628 IS [AC] AACATAATTTCCCACATCTGAGCTGGGGAATTGTACACATAGTAACCCAGCCTGTTCTGC[AC]TCATAAGGCTGCTGCATCAAATCAATGCTTTATTCTAATC AAGTTCAGCTTTCATGGACT
17659 I S GCCCCCTGGGAACTGGGGGTGA
17659 P G S ATGACGTGGCAGACCGGGAGTTCTCCCTCY
17659 P A S CGCGCCGAGGTGGGAGTTCTCCCTCTY
17659 T G S CCCCAGAGGGAGAACTCCCGCACCCCCAGTTCCCAGGGGGCCT
17659 T A S CCCCAGAGGGAGAACTCCCACACCCCCAGTTCCCAGGGGGCCT
17659 IS [GA] TTCATAGCCTAGAAGTCTTCCTAGTAGTCAGATTTTCTGTCCCCCAGAGGGAGAACTCCC[GA]CACCCCCAGTTCCCAGGGGGCCTGGTGTTTGAGGAGCT GCATCAAGCTGCATCTTCTTAC
17764 I A GCTTTCCACACGTGTGCCTCTCACCTCACT
17764 P A A CGCGCCGAGGAGTGGTTGCCCTGTY
17764 P G A ATGACGTGGCAGACGGTGGTTGCCCTGTY
17764 T A A TAGCACAGGGCAACCACTGTGAGGTGAGAGGCACACGTGTGGAAAGCTT
17764 T G A TAGCACAGGGCAACCACCGTGAGGTGAGAGGCACACGTGTGGAAAGCTT
17764 IS [AG] AAAGATCCAGTCCAGAGAAGGAAGAAAGAAAGCTTTCCACACGTGTGCCTCTCACCTCAC[AG]GTGGTTGCCCTGTGCTATGGTGTGGCCATTTTCACTTAC ATCCAGCCCCACTCCAGTCCC
17780 I A GCTGGAGGGACAGGGTTAGGAAATGTTTTCCGAAT
17780 P A A CGCGCCGAGGATCTGAATGTAATGAGTTAAATTTGAY
17780 P C A ATGACGTGGCAGACCTCTGAATGTAATGAGTTAAATTTGAY
17780 T A A TATTTCAAATTTAACTCATTACATTCAGATTTCGGAAAACATTTCCTAACCCTGTCCCTCCAGCTC
17780 T C A TATTTCAAATTTAACTCATTACATTCAGAGTTCGGAAAACATTTCCTAACCCTGTCCCTCCAGCTC
17780 IS [AC] CTGTTTTCAGCAAGCTTTTGGCGGGAGCTGGAGGGACAGGGTTAGGAAATGTTTTCCGAA[AC]TCTGAATGTAATGAGTTAAATTTGAAATATAAACAGAAA GCACAGATTGTTCTAGGCAAT
17827 I A TGCGCCCAGCTCACACACCTGGC
17827 P T A CGCGCCGAGGTGCGCCTCCTCCTY
17827 P A A ATGACGTGGCAGACAGCGCCTCCTCCTY
17827 T T A AGGGAGGAGGAGGCGCACCAGGTGTGTGAGCTGGGCGCACA
17827 T A A AGGGAGGAGGAGGCGCTCCAGGTGTGTGAGCTGGGCGCACA
17827 IS [TA] CTTCTTGGGCCCCTGCTCCTTGCAGGGCGTTGGTGGTGTGCGCCCAGCTCACACACCTGG[TA]GCGCCTCCTCCTCCCTCCTGAAGACCGTCCCCTCTGC ACCCCTCCACCTTCTCTACCTCC
17845 I A GCGCGATGACCGAACGGGCGT
17845 P A A CGCGCCGAGGATCTTGGTGACCCCAGY
17845 P C A ATGACGTGGCAGACCTCTTGGTGACCCCAY
17845 T A A GCTGCTGGGGTCACCAAGATCGCCCGTTCGGTCATCGCGCCA
17845 T C A GCTGCTGGGGTCACCAAGAGCGCCCGTTCGGTCATCGCGCCA
17845 IS [AC] GTGGACAGCATCAGCACAGACACGTGGTGCTCGGCCAGTGGCGCGATGACCGAACGGGCG[AC]TCTTGGTGACCCCAGCAGCCTGCACTGCCGCACCGC TGTGAGACGACACGTTCAGCACCA
17848 I A CAGGATCTACTAAAGATGACGCAAATGCCGACTGAACAT
17848 P A A CGCGCCGAGGATCTGAAACCCAAAGGACY
17848 P C A ATGACGTGGCAGACCTCTGAAACCCAAAGGACY
17848 T A A TCGAGTCCTTTGGGTTTCAGATTGTTCAGTCGGCATTTGCGTCATCTTTAGTAGATCCTGAG
17848 T C A TCGAGTCCTTTGGGTTTCAGAGTGTTCAGTCGGCATTTGCGTCATCTTTAGTAGATCCTGAG
17848 IS [AC] CCCATGGGCTGCTGGTCAACCTCAGGATCTACTAAAGATGACGCAAATGCCGACTGAAC[AC]TCTGAAACCCAAAGGACTCGAGGAGAGACATGTTCTGC TGAGGAGAGAAAGGTGAGCCAA
17903 I A TGGTGACCTCAGGAGAAGCATTGGTGGCA
17903 P C A ATGACGTGGCAGACCGTGACGTTCTTGAAAGAY
17903 P T A CGCGCCGAGGTGTGACGTTCTTGAAAGAAY
17903 T C A CAGCTTCTTTCAAGAACGTCACGGCCACCAATGCTTCTCCTGAGGTCACCACG
17903 T T A CAGCTTCTTTCAAGAACGTCACAGCCACCAATGCTTCTCCTGAGGTCACCACG
17903 IS [CT] ACCCTGCCATCTTCCTCCCTCACATGCTGTCGTGGTGACCTCAGGAGAAGCATTGGTGGC[CT]GTGACGTTCTTGAAAGAAGCTGGGGCACCCCATATCAT AAGGTGACCCTTCGGGGCTCCT
17908 I S CCTTGCTCTGGCTGGGCTGAGTGTGA
17908 P G S ATGACGTGGCAGACCACCCACAAAGCCTGY
17908 P A S CGCGCCGAGGTACCCACAAAGCCTGTY
17908 T G S GGATACAGGCTTTGTGGGTGCACACTCAGCCCAGCCAGAGCAAGGCC
17908 T A S GGATACAGGCTTTGTGGGTACACACTCAGCCCAGCCAGAGCAAGGCC
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ZNF179
OR2F1
ZNF278

FIGURE 129E

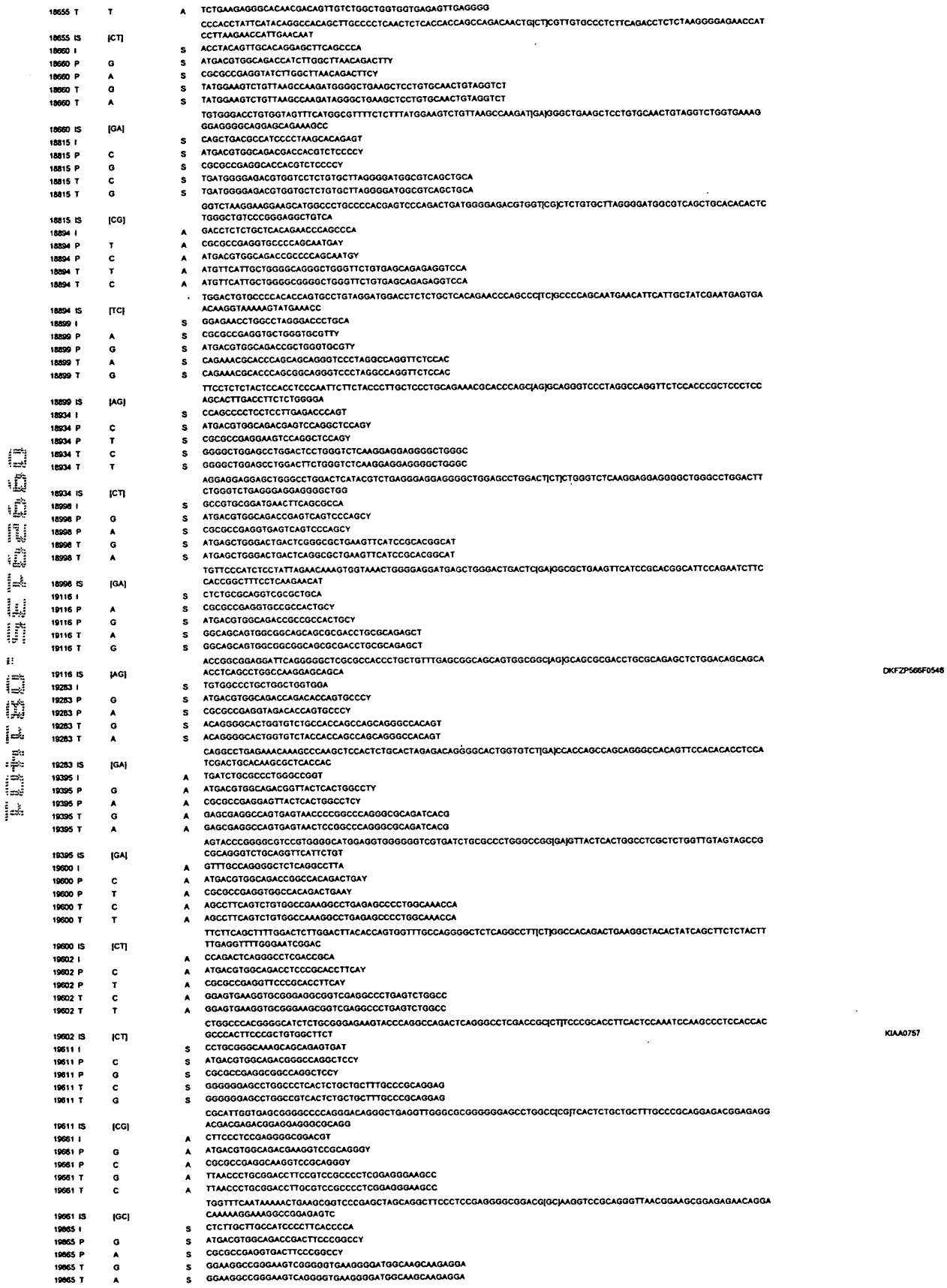


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                                                TTCAGAAGAAGGTCCTGCAGGGAAGTGGAAACAGCCCAGGTGGATACAGGCTTTGTGGGT[GA]CACACTCAGCCCAGCCAGAGCAAGGCCCCACAAGGGG
17908 IS    [GA]                               GAGTACCCACTCTGGCAGCACAA
17909 I                 S                      GGTCTCCAAAGGGTGGCAGGGCCTA
17909 P     A           S                      CGCGCCGAGGTGTGCTGCCAGAGTY
17909 P     G           S                      ATGACGTGGCAGACCGTGCTGCCAGAGTY
17909 T     A           S                      ACCCACTCTGGCAGCACAAGGCCCTGCCACCCTTTGGAGACCCC
17909 T     G           S                      ACCCACTCTGGCAGCACGAGGCCCTGCCACCCTTTGGAGACCCC
                                                TGCACACTCAGCCCAGCCAGAGCAAGGCCCCACAAGGGGGAGTACCCACTCTGGCAGCAC[AG]AGGCCCTGCCACCCTTTGGAGACCCCTCTGGGTGCA
17909 IS    [AG]                               GGCCCCAAGTGGCTACACACCAGC
17937 I                 A                      GGAGTAAGGAGTAAGCAGATCTGATTACCAGAGAATTTAAGTATTTTGTCAAAAACTT
17937 P     A           A                      CGCGCCGAGGATTTTATAAATTCTTTCCAGTCAAGTY
17937 P     G           A                      ATGACGTGGCAGACGTTTTATAAATTCTTTCCAGTCAAGY

17937 T     A           A                      ACTGACTTGACTGGAAAGAATTTATAAAATAGTTTTTGACAAAATACTTAAATTCTCTGGTAATCAGATCTGCTTACTCCTTACTCCCA

17937 T     G           A                      ACTGACTTGACTGGAAAGAATTTATAAAACAGTTTTTGACAAAATACTTAAATTCTCTGGTAATCAGATCTGCTTACTCCTTACTCCCA
                                                CTGGGAGTAAGGAGTAAGCAGATCTGATTACCAGAGAATTTAAGTATTTTGTCAAAAACT[AG]TTTTATAAATTCTTTCCAGTCAAGTCAGTTCACAATCCAGT
17937 IS    [AG]                               AAGCTGTGATCAGAGTCAT
17941 I                 S                      CTTTGCCCTGCCCCCACTTCGCTA
17941 P     A           S                      CGCGCCGAGGTTCACTCAGGGTCAGGY
17941 P     G           S                      ATGACGTGGCAGACCTCACTCAGGGTCAGGY
17941 T     A           S                      AGGCCCTGACCCTGAGTGAAAGCGAAGTGGGGGCAGGGCAAAGAC
17941 T     G           S                      AGGCCCTGACCCTGAGTGAGAGCGAAGTGGGGGCAGGGCAAAGAC
                                                AATGCAGGCTCCTCCCTCTCTACCTCTAATCTCCCAACTCCAGGCCCTGACCCTGAGTGA[AG]AGCGAAGTGGGGGCAGGGCAAAGACCGCAGATCAGCC
17941 IS    [AG]                               CTGACAGATACTCCAGCCCTCAT
17943 I                 S                      CCCTCAACCGGGAAGGAGTCTACACAGTCTTA
17943 P     A           S                      CGCGCCGAGGTGCTCCCACAAATGAAGY
17943 P     G           S                      ATGACGTGGCAGACCGCTCCCACAAATGAAY
17943 T     A           S                      AAGGCTTCATTTGTGGGAGCAAAGACTGTGTAGACTCCTTCCCGGTTGAGGGTC
17943 T     G           S                      AAGGCTTCATTTGTGGGAGCGAAGACTGTGTAGACTCCTTCCCGGTTGAGGGTC
                                                ACCCAAGAGTCTGCTCCGTTCTCTTGGTGGCAGGGCTCGGAAGGCTTCATTTGTGGGAGC[AG]AAGACTGTGTAGACTCCTTCCCGGTTGAGGGTCTCCG
17943 IS    [AG]                               TCAGTCCTGCAGACTGGATGGCA
17998 I                 A                      GTGTAGACACCGGGCCGATTGGGCA
17998 P     C           A                      ATGACGTGGCAGACCGACCACAGCCCAY
17998 P     T           A                      CGCGCCGAGGTGACCACAGCCCACY
17998 T     C           A                      GGGAGTGGGCTGTGGTCGGCCCAATCGGCCCGGTGTCTACACCA
17998 T     T           A                      GGGAGTGGGCTGTGGTCAGCCCAATCGGCCCGGTGTCTACACCA
                                                AGCTTCTGGATCCACTCAAAGTGGTGGCTGATATTGGTGTAGACACCGGGCCGATTGGGC[CT]GACCACAGCCCACTCCCCAGCTCACGACTCCAATCTGA
17998 IS    [CT]                               TACCACAGTCCATTCTTGTTAC                                                                                                  PRSS21
18006 I                 A                      CTCAAGTTGACAAAACGTATTATCTTATGCATTTTTACAGCAGGTGTAAAAACACTAAT
18006 P     A           A                      CGCGCCGAGGAGACAAGGAAATAAGCAGGY
18006 P     C           A                      ATGACGTGGCAGACCGACAAGGAAATAAGCAGGY
18006 T     A           A                      TTATCCTGCTTATTTCCTTGTCTTTAGTGTTTTTACACCTGCTGTAAAAATGCATAAGATAATACGTTTTGTCAACTTGAGTT
18006 T     C           A                      TTATCCTGCTTATTTCCTTGTCGTTAGTGTTTTTACACCTGCTGTAAAAATGCATAAGATAATACGTTTTGTCAACTTGAGTT
                                                AACTCAAGTTGACAAAACGTATTATCTTATGCATTTTTACAGCAGGTGTAAAAACACTAA[AC]GACAAGGAAATAAGCAGGATAAACATTCAACTTTAATTGCA
18006 IS    [AC]                               AAGGAAAGGGTGACTATTT
18048 I                 S                      GCGTGTACTTTGGAGTCTTCAAATGTTATTTTCTGTTTATTAAGTTCACTCACTTT
18048 P     C           S                      ATGACGTGGCAGACGTCCTTTCCATACTTCAGCY
18048 P     G           S                      CGCGCCGAGGCTCCTTTCCATACTTCAGCY
18048 T     C           S                      AGAAGCTGAAGTATGGAAAGGACAAGTGAGTGAACTTAATAAACAGAAAATAACATTTGAAGACTCCAAAGTACACGCAG
18048 T     G           S                      AGAAGCTGAAGTATGGAAAGGAGAAGTGAGTGAACTTAATAAACAGAAAATAACATTTGAAGACTCCAAAGTACACGCAG
                                                TCTCAACTTCAGACAAGCCATAAACAGCTTTTTCAGCAAGAAGCTGAAGTATGGAAAGGA[CG]AAGTGAGTGAACTTAATAAACAGAAAATAACATTTGAAGA
18048 IS    [CG]                               CTCCAAAGTACACGCAGAAC
18089 I                 A                      TCAGTGGGTTCCTTTTTTGGTTGGTTGAGTCTCACTT
18089 P     G           A                      ATGACGTGGCAGACGTGTCGCCCAGGCY
18089 P     C           A                      CGCGCCGAGGCTGTCGCCCAGGCY
18089 T     G           A                      TCCAGCCTGGGCGACACAGTGAGACTCAACCAACCAAAAAAGGAACCCACTGAAC
18089 T     C           A                      TCCAGCCTGGGCGACAGAGTGAGACTCAACCAACCAAAAAAGGAACCCACTGAAC
                                                TTTGAGGATGCTAGTCACTGATGTTCAGTGGGTTCCTTTTTTGGTTGGTTGAGTCTCACT[GC]TGTCGCCCAGGCTGGAGTGCAGTGGCACGATCTCAGCT
18089 IS    [GC]                               CACTGCAACCTCTGCCTCCCAG
18188 I                 A                      GGTCCCCATGACCCGCAATTCCATTCCTAGA
18188 P     C           A                      ATGACGTGGCAGACCCTCCGGGACCCTY
18188 P     T           A                      CGCGCCGAGGTCTCCGGGACCCTY
18188 T     C           A                      GAGCAGGGTCCCGGAGGCTAGGAATGGAATTGCGGGTCATGGGGACCGA
18188 T     T           A                      GAGCAGGGTCCCGGAGACTAGGAATGGAATTGCGGGTCATGGGGACCGA
                                                ACCAGTGTTAGGGTGTAGCCCGGAGGTCTCGGTCCCCATGACCCGCAATTCCATTCCTAG[CT]CTCCGGGACCCTGCTCAGCAAGTGCGGAAAACAGCGG
18188 IS    [CT]                               GGCTGGTGATGACCCACCTGATC
18204 I                 A                      CCTGCCCGAAGACAGTAAGTAATGCCACCAA
18204 P     C           A                      ATGACGTGGCAGACCGTGCCACACCCGY
18204 P     T           A                      CGCGCCGAGGTGTGCCACACCCGY
18204 T     C           A                      GGGACGGGTGTGGCACGTGGTGGCATTACTTACTGTCTTCGGGCAGGTT
18204 T     T           A                      GGGACGGGTGTGGCACATGGTGGCATTACTTACTGTCTTCGGGCAGGTT
                                                ACAGATGGAGCGGGAAGAACGGGAAAACAACCTGCCCGAAGACAGTAAGTAATGCCACCA[CT]GTGCCACACCCGTCCCCTGGGGCTGGGGTTGCTTTGT
18204 IS    [CT]                               GTGTGCAGACCTTGTTGTTTTCT
18263 I                 A                      CGCCATCCCCTTCGACCTGCTCATCTTA
18263 P     T           A                      CGCGCCGAGGTGGCTCTGGCTCTGY
18263 P     C           A                      ATGACGTGGCAGACCGGCTCTGGCTCTGY
18263 T     T           A                      TCCTCAGAGCCAGAGCCAAAGATGAGCAGGTCGAAGGGGATGGCGGC
18263 T     C           A                      TCCTCAGAGCCAGAGCCGAAGATGAGCAGGTCGAAGGGGATGGCGGC
                                                CTTCAAGGGCTGGTTCCTCATCGACATGGTGGCCGCCATCCCCTTCGACCTGCTCATCTT[TC]GGCTCTGGCTCTGAGGAGGTGGGGTCAGCAAGGAGGC
18263 IS    [TC]                               AGGTGGTGTAGGGAGAGGAGAGG
18545 I                 S                      GGAGCAGAGGCTTGTGTGTTGTATTGTTAATTATGTGCTGAAAATC
18545 P     A           S                      CGCGCCGAGGTAAATTCTGGTCAGTCTTTGCY
18545 P     C           S                      ATGACGTGGCAGACGAAATTCTGGTCAGTCTTTGY
18545 T     A           S                      TTCTGCAAAGACTGACCAGAATTTAATTTTCAGCACATAATTAACAATACAACACACAAGCCTCTGCTCCCC
18545 T     C           S                      TTCTGCAAAGACTGACCAGAATTTCATTTTCAGCACATAATTAACAATACAACACACAAGCCTCTGCTCCCC
                                                CATGGAAAATCCTTTGCTTAGGGGTGTGTTTGTACCTTCTGCAAAGACTGACCAGAATTT[AC]ATTTTCAGCACATAATTAACAATACAACACACAAGCCTCTG
18545 IS    [AC]                               CTCCCCTTTAATGTGGTAG
18557 I                 S                      GTGGAGTTATTAGCCAAGTAGGATTAAAAAACTTAGAGTCCTGA
18557 P     G           S                      ATGACGTGGCAGACCAAACTAAGTCTCTTTCATTTACTTY
18557 P     A           S                      CGCGCCGAGGTAAACTAAGTCTCTTTCATTTACTTGY
18557 T     G           S                      GCTGCAAGTAAATGAAAGAGACTTAGTTTGCAGGACTCTAAGTTTTTTAATCCTACTTGGCTAATAACTCCACTG
18557 T     A           S                      GCTGCAAGTAAATGAAAGAGACTTAGTTTACAGGACTCTAAGTTTTTTAATCCTACTTGGCTAATAACTCCACTG
                                                CCTACTGTTCTTTATTCCCATAAACACCTTTGCTGCAAGTAAATGAAAGAGACTTAGTTT[GA]CAGGACTCTAAGTTTTTTAATCCTACTTGGCTAATAACTCC
18557 IS    [GA]                               ACTGATACCTATTAATATT
18655 I                 A                      CCTCAACTCTCACCACCAGCCAGACAACTGA
18655 P     C           A                      ATGACGTGGCAGACCCGTTGTGCCCTCTY
18655 P     T           A                      CGCGCCGAGGTCGTTGTGCCCTCTTY
18655 T     C           A                      TCTGAAGAGGGCACAACGGCAGTTGTCTGGCTGGTGGTGAGAGTTGAGGGG
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FIGURE 129E

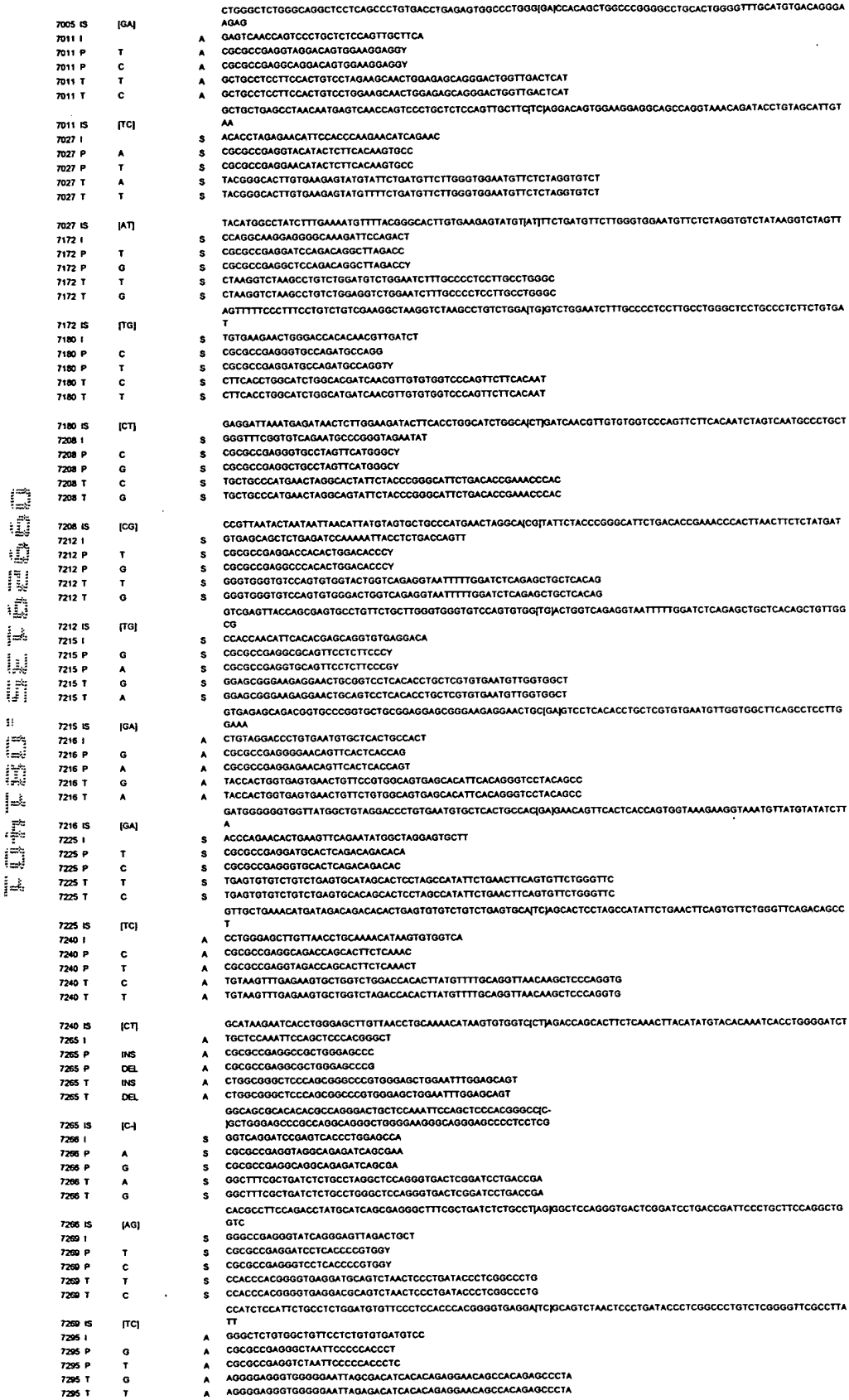


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FIGURE 129E

19865	IS	[GA]		AGAGGGAGAGAGACATATTCTGTTAGAAACTGGGTGAATGAGATGGAAGGCCGGGAAGTC[GA]GGGGTGAAGGGGATGGCAAGCAAGAGGAACAGAGAG AAAGAGCAAGAGAGAGAGAGAGAG	
19910	I		S	GATTCGTGAGCTTCAGGCACACAGTGAACACTT	
19910	P	G	S	CGCGCCGAGGCAGCGTCCCTGCTY	
19910	P	C	S	ATGACGTGGCAGACGAGCGTCCCTGCTY	
19910	T	G	S	CAGCAGCAGGGACGCTGAGTGTTCACTGTGTGCCTGAAGCTCACGAATCCG	
19910	T	C	S	CAGCAGCAGGGACGCTCAGTGTTCACTGTGTGCCTGAAGCTCACGAATCCG	
19910	IS	[GC]		AGCGTGTGTGAAATAGCCGGGGGTGTGGGGGCCCGCGGCAGCGGCAGCAGCAGGGACGCT[GC]AGTGTTCACTGTGTGCCTGAAGCTCACGAATCCGTC CCCACAGCTCCATTTTCTAGGTGA	
19944	I		A	GCTGCCCTGCCTGTGCCCTATCCA	
19944	P	C	A	ATGACGTGGCAGACCCTAGCCTCCAGGAATCY	
19944	P	T	A	CGCGCCGAGGTCTAGCCTCCAGGAATCY	
19944	T	C	A	GAGGGATTCCTGGAGGCTAGGGGATAGGGCACAGGCAGGGCAGCCA	
19944	T	T	A	GAGGGATTCCTGGAGGCTAGAGGATAGGGCACAGGCAGGGCAGCCA	
19944	IS	[CT]		GAGACTACTGGTAAGCCCTGAGACTCTAGGTTCCCTGGCTGCCCTGCCTGTGCCCTATCC[CT]CTAGCCTCCAGGAATCCCTCCCTGACTGCCTAGCTCTG GGCTCCCCAGTTCAGCCCCTGC	
20182	I		A	GGGTGTCCTTTTGGGAGTGTTCTTTTGGGAGTA	
20182	P	T	A	CGCGCCGAGGTCCGTGATGACCGGY	
20182	P	C	A	ATGACGTGGCAGACCCCGTGATGACCGGY	
20182	T	T	A	GAATCCGGTCATCACGGAACTCCCAAAAGAACACTCCCAAAAGGACACCCCT	
20182	T	C	A	GAATCCGGTCATCACGGGACTCCCAAAAGAACACTCCCAAAAGGACACCCCT	
20182	IS	[TC]		CAGAGAAAGGAGAAGTATGTTGTTAGAGGGGTGTCCTTTTGGGAGTGTTCTTTTGGGAGT[TC]CCGTGATGACCGGATTCAAAGTTAGAGCAAATTAGAAG GGCTTCATGAACCAGCAAAACT	
20490	I		S	CCAGGGGCTTTAGGGACACCCCCCT	
20490	P	C	S	ATGACGTGGCAGACGTCGCTGCTGCCCY	
20490	P	T	S	CGCGCCGAGGATCGCTGCTGCCCY	
20490	T	C	S	GTCAGGGCAGCAGCGACGGGGGGTGTCCCTAAAGCCCCTGGTG	
20490	T	T	S	GTCAGGGCAGCAGCGATGGGGGGTGTCCCTAAAGCCCCTGGTG	
20490	IS	[CT]		TCTCCGGACTCACAGCCCAGGCACCTGGAGGACAAACCAAAATGGTCAGGGCAGCAGCGA[CT]GGGGGGTGTCCCTAAAGCCCCTGGTGTTCCTGAGCTT TTAGCAGCCCCCTAAACACCCTA	
20512	I		A	GAGCGAGAACTTCACAGCCTGTGGTCTCTCA	
20512	P	C	A	ATGACGTGGCAGACCTTCCCTCACAGAAGTGY	
20512	P	T	A	CGCGCCGAGGTTTCCCTCACAGAAGTGGY	
20512	T	C	A	TCGACCACTTCTGTGAGGGAAGGAGAGACCACAGGCTGTGAAGTTCTCGCTCGT	
20512	T	T	A	TCGACCACTTCTGTGAGGGAAAGAGAGACCACAGGCTGTGAAGTTCTCGCTCGT	
20512	IS	[CT]		CAGCCCTGGGTGGGAGACCCTCAGGAGCACGAGCGAGAACTTCACAGCCTGTGGTCTCTC[CT]TTCCCTCACAGAAGTGGTCGACCAGAAGGCCGTGTAT TTCTTCAACCTGACTTCCATGCA	
20549	I		A	ACTCTCTGGCCATGGTTAGACCACATCAGTCTTTTTTTGA	
20549	P	C	A	ATGACGTGGCAGACCGGCCTGAGAGCCY	
20549	P	T	A	CGCGCCGAGGTGGCCTGAGAGCCY	
20549	T	C	A	TCGGGGCTCTCAGGCCGCAAAAAAAGACTGATGTGGTCTAACCATGGCCAGAGAGTGG	
20549	T	T	A	TCGGGGCTCTCAGGCCACAAAAAAAGACTGATGTGGTCTAACCATGGCCAGAGAGTGG	
20549	IS	[CT]		GTTGTTGTTGTGGGTATCACCACTCTCTGGCCATGGTTAGACCACATCAGTCTTTTTTTG[CT]GGCCTGAGAGCCCCGAAGAGAAAAGAAGGAAGTTCTTAA AGCGCTGCCAAACACCTTGGT	
21685	I		A	AACTGCACTTTTTGCCATTTGCTTGGTTTTCTATGC	
21685	P	A	A	CGCGCCGAGGAGCATGTCACTAACTCTAAGY	
21685	P	T	A	ATGACGTGGCAGACTGCATGTCACTAACTCTAAGY	
21685	T	A	A	AATCCTTAGAGTTAGTGACATGCTCATAGAAAACCAAGCAAATGGCAAAAAGTGCAGTTAT	
21685	T	T	A	AATCCTTAGAGTTAGTGACATGCACATAGAAAACCAAGCAAATGGCAAAAAGTGCAGTTAT	
21685	IS	[AT]		CCTTTTGGGTTTCCTTGGAATTAATAACTGCACTTTTTGCCATTTGCTTGGTTTTCTATG[AT]GCATGTCACTAACTCTAAGGATTCTTTATTTTTCAGTTTCTT CTGCTCCCTACTTTATTT	
21686	I		A	GGCACTGTCTTCATCGTGGGGGCCA	
21686	P	C	A	ATGACGTGGCAGACCGCAGTGAGCAAGCY	
21686	P	T	A	CGCGCCGAGGTGCAGTGAGCAAGCAY	
21686	T	C	A	TGTCTGCTTGCTCACTGCGGGCCCCCACGATGAAGACAGTGCCTG	
21686	T	T	A	TGTCTGCTTGCTCACTGCAGGCCCCCACGATGAAGACAGTGCCTG	
21686	IS	[CT]		TTCAGCAAATATTTACTGAGCCTCTACAGGGGGCCAGGCACTGTCTTCATCGTGGGGGCC[CT]GCAGTGAGCAAGCAGACATGATCCCTGCGTCAGAAGCC TGCCTTTGCGCTGCCTCAGTGA	
21787	I		S	CATCTCAGGCTTTCCCCCTAAGACCACCCA	
21787	P	G	S	ATGACGTGGCAGACCAGGGGTAAGGGCCY	
21787	P	A	S	CGCGCCGAGGTAGGGGTAAGGGCCAY	
21787	T	G	S	ACTTTGGCCCTTACCCCTGGGGTGGTCTTAGGGGGAAAGCCTGAGATGCT	
21787	T	A	S	ACTTTGGCCCTTACCCCTAGGGTGGTCTTAGGGGGAAAGCCTGAGATGCT	
21787	IS	[GA]		GTCAAGGACTGGACCTAGGCTTGTTTAGGGCTGGTCTATTTCACTTTGGCCCTTACCCCT[GA]GGGTGGTCTTAGGGGGAAAGCCTGAGATGCTTACCAAG GCCTCTTCAGCTTGGCAACCTG	
4050	I		A	CTGGTCACCATCCTGACCTGTTCTGCCAA	
4050	P	C	A	CGCGCCGAGGCACCCTCCCCCTACAAT	
4050	P	T	A	CGCGCCGAGGTACCCTCCCCCTACAATG	
4050	T	C	A	AGTCCATTGTAGGGGGAGGGTGTGGCAGAACAGGTCAGGATGGTGACCAGGA	
4050	T	T	A	AGTCCATTGTAGGGGGAGGGTATGGCAGAACAGGTCAGGATGGTGACCAGGA	
4050	IS	[CT]		CACACACTCATAGATACACCCCTTTCCTGGTCACCATCCTGACCTGTTCTGCCA[CT]ACCCTCCCCCTACAATGGACTGAAAACAGAAACACAGCCAC	
4779	I		A	CCTGCTGGAGCATGCCAGCTGACTCACT	
4779	P	G	A	CGCGCCGAGGGGCAGACAGACCTCTGGY	
4779	P	A	A	CGCGCCGAGGAGCAGACAGACCTCTGGY	
4779	T	G	A	CACCCCAGAGGTCTGTCTGCCGTGAGTCAGCTGGCATGCTCCAGCAGGCT	
4779	T	A	A	CACCCCAGAGGTCTGTCTGCTGTGAGTCAGCTGGCATGCTCCAGCAGGCT	
4779	IS	[GA]		GGCCCCTCAGCCTCAGGAAGGAGCCTGCTGGAGCATGCCAGCTGACTCAC[GA]GCAGACAGACCTCTGGGGTGGCACATCTGTCAGTGCATTTGAGCTCC CTG	
4825	I		S	AATAATCAGACAATTGATGAAAATACTTACCCAAACACTAATTGTAGACTT	
4825	P	T	S	CGCGCCGAGGATGCCTTCTGAATATGTTTGTCAY	
4825	P	C	S	CGCGCCGAGGGTGCCTTCTGAATATGTTTGTCY	
4825	T	T	S	TTTATGACAAACATATTCAGAAGGCATAGTCTACAATTAGTGTTTGGGTAAGTATTTTCATCAATTGTCTGATTATT	
4825	T	C	S	TTTATGACAAACATATTCAGAAGGCACAGTCTACAATTAGTGTTTGGGTAAGTATTTTCATCAATTGTCTGATTATT	
4825	IS	[TC]		CCTGTGAGGATTCCTTACTCCAAGTTTATGACAAACATATTCAGAAGGCA[TC]AGTCTACAATTAGTGTTTGGGTAAGTATTTTCATCAATTGTCTGATTATT	
6978	I		S	CCAGGCCCAGAAAGCAGGAATGGCTTGCA	
6978	P	G	S	CGCGCCGAGGCTAAGACTTGCCCAAGTCCY	
6978	P	A	S	CGCGCCGAGGTTAAGACTTGCCCAAGTCC	
6978	T	G	S	TCTGGGACTTGGGCAAGTCTTAGGCAAGCCATTCCTGCTTTCTGGGCCTGGCT	
6978	T	A	S	TCTGGGACTTGGGCAAGTCTTAAGCAAGCCATTCCTGCTTTCTGGGCCTGGCT	
6978	IS	[GA]		GGGATGGTGGCTTCGGGAGGTGAGGTGCTCTGGGACTTGGGCAAGTCTTA[GA]GCAAGCCATTCCTGCTTTCTGGGCCTGGCTCCCATGGGCCATTAGAA ATG	GSTT1
7005	I		A	CCCTGTGACCTGAGAGTGGCCCTGGGT	
7005	P	G	A	CGCGCCGAGGGCCACAGCTGGCCY	
7005	P	A	A	CGCGCCGAGGACCACAGCTGGCCCY	
7005	T	G	A	CCCCGGGCCAGCTGTGGCCCCAGGGCCACTCTCAGGTCACAGGGCT	
7005	T	A	A	CCCCGGGCCAGCTGTGGTCCCAGGGCCACTCTCAGGTCACAGGGCT	

FIGURE 129E


CTGGGCTCTGGGCAGGCTCCTCAGCCCTGTGACCTGAGAGTGGCCCTGGG[GA]CCACAGCTGGCCCGGGGCCTGCACTGGGGTTTGCATGTGACAGGGA
7005 tS [GA] AGAG
7011 I A GAGTCAACCAGTCCCTGCTCTCCAGTTGCTTCA
7011 P T A CGCGCCGAGGTAGGACAGTGGAAGGAGGY
7011 P C A CGCGCCGAGGCAGGACAGTGGAAGGAGGY
7011 T T A GCTGCCTCCTTCCACTGTCCTAGAAGCAACTGGAGAGCAGGGACTGGTTGACTCAT
7011 T C A GCTGCCTCCTTCCACTGTCCTGGAAGCAACTGGAGAGCAGGGACTGGTTGACTCAT
GCTGCTGAGCCTAACAATGAGTCAACCAGTCCCTGCTCTCCAGTTGCTTC[TC]AGGACAGTGGAAGGAGGCAGCCAGGTAAACAGATACCTGTAGCATTGT
7011 tS [TC] AA
7027 I S ACACCTAGAGAACATTCCACCCAAGAACATCAGAAC
7027 P A S CGCGCCGAGGTACATACTCTTCACAAGTGCC
7027 P T S CGCGCCGAGGAACATACTCTTCACAAGTGCC
7027 T A S TACGGGCACTTGTGAAGAGTATGTATTCTGATGTTCTTGGGTGGAATGTTCTCTAGGTGTCT
7027 T T S TACGGGCACTTGTGAAGAGTATGTTTTCTGATGTTCTTGGGTGGAATGTTCTCTAGGTGTCT

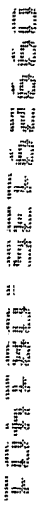
7027 tS [AT] TACATGGCCTATCTTTGAAAATGTTTTACGGGCACTTGTGAAGAGTATGT[AT]TTCTGATGTTCTTGGGTGGAATGTTCTCTAGGTGTCTATAAGGTCTAGTT
7172 I S CCAGGCAAGGAGGGGCAAAGATTCCAGACT
7172 P T S CGCGCCGAGGATCCAGACAGGCTTAGACC
7172 P G S CGCGCCGAGGCTCCAGACAGGCTTAGACCY
7172 T T S CTAAGGTCTAAGCCTGTCTGGATGTCTGGAATCTTTGCCCCTCCTTGCCTGGGC
7172 T G S CTAAGGTCTAAGCCTGTCTGGAGGTCTGGAATCTTTGCCCCTCCTTGCCTGGGC
AGTTTTTCCCTTTCCTGTCTGTCGAAGGCTAAGGTCTAAGCCTGTCTGGA[TG]GTCTGGAATCTTTGCCCCTCCTTGCCTGGGCTCCTGCCCTCTTCTGTGA
7172 tS [TG] T
7180 I S TGTGAAGAACTGGGACCACACAACGTTGATCT
7180 P C S CGCGCCGAGGGTGCCAGATGCCAGG
7180 P T S CGCGCCGAGGATGCCAGATGCCAGGTY
7180 T C S CTTCACCTGGCATCTGGCACGATCAACGTTGTGTGGTCCCAGTTCTTCACAAT
7180 T T S CTTCACCTGGCATCTGGCATGATCAACGTTGTGTGGTCCCAGTTCTTCACAAT

7180 tS [CT] GAGGATTAAATGAGATAACTCTTGGAAGATACTTCACCTGGCATCTGGCA[CT]GATCAACGTTGTGTGGTCCCAGTTCTTCACAATCTAGTCAATGCCCTGCT
7208 I S GGGTTTCGGTGTCAGAATGCCCGGGTAGAATAT
7208 P C S CGCGCCGAGGGTGCCTAGTTCATGGGCY
7208 P G S CGCGCCGAGGCTGCCTAGTTCATGGGCY
7208 T C S TGCTGCCCATGAACTAGGCACTATTCTACCCGGGCATTCTGACACCGAAACCCAC
7208 T G S TGCTGCCCATGAACTAGGCAGTATTCTACCCGGGCATTCTGACACCGAAACCCAC

7208 tS [CG] CCGTTAATACTAATAATTAACATTATGTAGTGCTGCCCATGAACTAGGCA[CG]TATTCTACCCGGGCATTCTGACACCGAAACCCACTTAACTTCTCTATGAT
7212 I S GTGAGCAGCTCTGAGATCCAAAAATTACCTCTGACCAGTT
7212 P T S CGCGCCGAGGACCACACTGGACACCCY
7212 P G S CGCGCCGAGGCCCACACTGGACACCCY
7212 T T S GGGTGGGTGTCCAGTGTGGTACTGGTCAGAGGTAATTTTTGGATCTCAGAGCTGCTCACAG
7212 T G S GGGTGGGTGTCCAGTGTGGGACTGGTCAGAGGTAATTTTTGGATCTCAGAGCTGCTCACAG
GTCGAGTTACCAGCGAGTGCCTGTTCTGCTTGGGTGGGTGTCCAGTGTGG[TG]ACTGGTCAGAGGTAATTTTTGGATCTCAGAGCTGCTCACAGCTGTTGG
7212 tS [TG] CG
7215 I S CCACCAACATTCACACGAGCAGGTGTGAGGACA
7215 P G S CGCGCCGAGGCGCAGTTCCTCTTCCCY
7215 P A S CGCGCCGAGGTGCAGTTCCTCTTCCCGY
7215 T G S GGAGCGGGAAGAGGAACTGCGGTCCTCACACCTGCTCGTGTGAATGTTGGTGGCT
7215 T A S GGAGCGGGAAGAGGAACTGCAGTCCTCACACCTGCTCGTGTGAATGTTGGTGGCT
GTGAGAGCAGACGGTGCCCGGTGCTGCGGAGGAGCGGGAAGAGGAACTGC[GA]GTCCTCACACCTGCTCGTGTGAATGTTGGTGGCTTCAGCCTCCTTG
7215 tS [GA] GAAA
7216 I A CTGTAGGACCCTGTGAATGTGCTCACTGCCACT
7216 P G A CGCGCCGAGGGGAACAGTTCACTCACCAG
7216 P A A CGCGCCGAGGAGAACAGTTCACTCACCAGT
7216 T G A TACCACTGGTGAGTGAACTGTTCTGTGGCAGTGAGCACATTCACAGGGTCCTACAGCC
7216 T A A TACCACTGGTGAGTGAACTGTTCTGTGGCAGTGAGCACATTCACAGGGTCCTACAGCC
GATGGGGGGTGGTTATGGCTGTAGGACCCTGTGAATGTGCTCACTGCCAC[GA]GAACAGTTCACTCACCAGTGGTAAAGAAGGTAAATGTTATGTATATCTT
7216 tS [GA] A
7225 I S ACCCAGAACACTGAAGTTCAGAATATGGCTAGGAGTGCTT
7225 P T S CGCGCCGAGGATGCACTCAGACAGACACA
7225 P C S CGCGCCGAGGGTGCACTCAGACAGACAC
7225 T T S TGAGTGTGTCTGTCTGAGTGCATAGCACTCCTAGCCATATTCTGAACTTCAGTGTTCTGGGTTC
7225 T C S TGAGTGTGTCTGTCTGAGTGCACAGCACTCCTAGCCATATTCTGAACTTCAGTGTTCTGGGTTC
GTTGCTGAAACATGATAGACAGACACACTGAGTGTGTCTGTCTGAGTGCA[TC]AGCACTCCTAGCCATATTCTGAACTTCAGTGTTCTGGGTTCAGACAGCC
7225 tS [TC] T
7240 I A CCTGGGAGCTTGTTAACCTGCAAAACATAAGTGTGGTCA
7240 P C A CGCGCCGAGGCAGACCAGCACTTCTCAAAC
7240 P T A CGCGCCGAGGTAGACCAGCACTTCTCAAACT
7240 T C A TGTAAGTTTGAGAAGTGCTGGTCTGGACCACACTTATGTTTTGCAGGTTAACAAGCTCCCAGGTG
7240 T T A TGTAAGTTTGAGAAGTGCTGGTCTAGACCACACTTATGTTTTGCAGGTTAACAAGCTCCCAGGTG

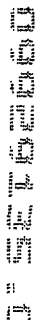
7240 tS [CT] GCATAAGAATCACCTGGGAGCTTGTTAACCTGCAAAACATAAGTGTGGTC[CT]AGACCAGCACTTCTCAAACTTACATATGTACACAAATCACCTGGGGATCT
7265 I A TGCTCCAAATTCCAGCTCCCACGGGCT
7265 P INS A CGCGCCGAGGCCGCTGGGAGCCC
7265 P DEL A CGCGCCGAGGCGCTGGGAGCCCG
7265 T INS A CTGGCGGGCTCCCAGCGGGCCCGTGGGAGCTGGAATTTGGAGCAGT
7265 T DEL A CTGGCGGGCTCCCAGCGGCCCGTGGGAGCTGGAATTTGGAGCAGT
GGCAGCGCACACACGCCAGGGACTGCTCCAAATTCCAGCTCCCACGGGCC[C-
7265 tS [C-]]GCTGGGAGCCCGCCAGGCAGGGCTGGGGAAGGGCAGGGAGCCCCTCCTCG
7266 I S GGTCAGGATCCGAGTCACCCTGGAGCCA
7266 P A S CGCGCCGAGGTAGGCAGAGATCAGCGAA
7266 P G S CGCGCCGAGGCAGGCAGAGATCAGCGA
7266 T A S GGCTTTCGCTGATCTCTGCCTAGGCTCCAGGGTGACTCGGATCCTGACCGA
7266 T G S GGCTTTCGCTGATCTCTGCCTGGGCTCCAGGGTGACTCGGATCCTGACCGA
CACGCCTTCCAGACCTATGCATCAGCGAGGGCTTTCGCTGATCTCTGCCT[AG]GGCTCCAGGGTGACTCGGATCCTGACCGATTCCCTGCTTCCAGGCTG
7266 tS [AG] GTC
7269 I S GGGCCGAGGGTATCAGGGAGTTAGACTGCT
7269 P T S CGCGCCGAGGATCCTCACCCCGTGGY
7269 P C S CGCGCCGAGGGTCCTCACCCCGTGGY
7269 T T S CCACCCACGGGGTGAGGATGCAGTCTAACTCCCTGATACCCTCGGCCCTG
7269 T C S CCACCCACGGGGTGAGGACGCAGTCTAACTCCCTGATACCCTCGGCCCTG
CCATCTCCATTCTGCCTCTGGATGTGTTCCCTCCACCCACGGGGTGAGGA[TC]GCAGTCTAACTCCCTGATACCCTCGGCCCTGTCTCGGGGTTCGCCTTA
7269 tS [TC] TT
7295 I A GGGCTCTGTGGCTGTTCCTCTGTGTGATGTCC
7295 P G A CGCGCCGAGGGCTAATTCCCCCACCCT
7295 P T A CGCGCCGAGGTCTAATTCCCCCACCCTC
7295 T G A AGGGGAGGGTGGGGGAATTAGCGACATCACACAGAGGAACAGCCACAGAGCCCTA
7295 T T A AGGGGAGGGTGGGGGAATTAGAGACATCACACAGAGGAACAGCCACAGAGCCCTA

FIGURE 129E



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                                AGGAGCCTGGCTCTGGATAGGGCTCTGTGGCTGTTCCTCTGTGTGATGTC[GT]CTAATTCCCCCACCCTCCCCTCTCTTCCTCTGAACTGGGGACAACCAA
7295 IS  [GT]                   AG
7305 I           S              CCCCCACAGGCGGCCCTTTCACT
7305 P   G       S              CGCGCCGAGGCTGGGGCTGGCAAATC
7305 P   T       S              CGCGCCGAGGATGGGGCTGGCAAATC
7305 T   G       S              CAAGGATTTGCCAGCCCCAGGTGAAAGGGCCGCCTGTGGGGGGT
7305 T   T       S              CAAGGATTTGCCAGCCCCATGTGAAAGGGCCGCCTGTGGGGGGT
                                CAGCCCCAGTACCAGAGCGGGAGGCTGATTCCAAGGATTTGCCAGCCCCA[GT]GTGAAAGGGCCGCCTGTGGGGGGTGCTGGTTTTGATTTTCACTCCCA
7305 IS  [GT]                   ATG
7333 I           S              CATGTCTGTTTGCACAGGTCTCTGTGTGCATGTCTT
7333 P   G       S              CGCGCCGAGGCTGCACCTCTGTGTGC
7333 P   C       S              CGCGCCGAGGGTGCACCTCTGTGTGC
7333 T   G       S              CTGTGCACACAGAGGTGCAGAGACATGCACACAGAGACCTGTGCAAACAGACATGCA
7333 T   C       S              CTGTGCACACAGAGGTGCACAGACATGCACACAGAGACCTGTGCAAACAGACATGCA
                                GATATGCATGCACACAGACACGTGCAAAGATCTGTGCACACAGAGGTGCA[GC]AGACATGCACACAGAGACCTGTGCAAACAGACATGCACATATACAAACA
7333 IS  [GC]                   C
7338 I           A              CTGCCTTTAGGGGTAGTATATTATATGGGTCCGGTCCCTA
7338 P   T       A              CGCGCCGAGGTCCTTGCAGCCATGATG
7338 P   C       A              CGCGCCGAGGCCCTTGCAGCCATGATG
7338 T   T       A              AGGTCATCATGGCTGCAAGGAAGGGACCGGACCCATATAATATACTACCCCTAAAGGCAGCT
7338 T   C       A              AGGTCATCATGGCTGCAAGGGAGGGACCGGACCCATATAATATACTACCCCTAAAGGCAGCT
                                GGTGCCTGAAGCTGCCTTTAGGGGTAGTATATTATATGGGTCCGGTCCCT[TC]CCTTGCAGCCATGATGACCTCCCTCTCCAACGCAGTTGCCTGCTTGTC
7338 IS  [TC]                   AT
7339 I           S              GTTTGACAGAGAAGGAAACTGAGGCTCTTACCTGGAGCA
7339 P   INS     S              CGCGCCGAGGCTCAGAGCAAGGACCTGG
7339 P   DEL     S              CGCGCCGAGGCCAGAGCAAGGACCTGG
7339 T   INS     S              CCTGGCCAGGTCCTTGCTCTGAGGCTCCAGGTAAGAGCCTCAGTTTCCTTCTCTGTCAAACAA
7339 T   DEL     S              CCTGGCCAGGTCCTTGCTCTGGGCTCCAGGTAAGAGCCTCAGTTTCCTTCTCTGTCAAACAA
                                TGGAAAAGCCCCCACCTGGAGGTGGCAGCCCTGGCCAGGTCCTTGCTCTG[-
7339 IS  [-A]                   A]GGCTCCAGGTAAGAGCCTCAGTTTCCTTCTCTGTCAAACAAAACCCTCAT
7371 I           S              ACACTATCGGGCAAAGAGCTCGGTGTCCTACAAGA
7371 P   G       S              CGCGCCGAGGCACATACTGCCCTTCCC
7371 P   A       S              CGCGCCGAGGTACATACTGCCCTTCCCAG
7371 T   G       S              TGGGCTGGGAAGGGCAGTATGTGCTTGTAGGACACCGAGCTCTTTGCCCGATAGTGTCA
7371 T   A       S              TGGGCTGGGAAGGGCAGTATGTACTTGTAGGACACCGAGCTCTTTGCCCGATAGTGTCA
                                AGCCCCTCCATTGGCTCATCCTGAGGACTGGGCTGGGAAGGGCAGTATGT[GA]CTTGTAGGACACCGAGCTCTTTGCCCGATAGTGTCAGTGGGAGGTTC
7371 IS  [GA]                   CAG
7379 I           A              GGAATTACGGTCCTCAGCCGTGCTCTCTGGT
7379 P   A       A              CGCGCCGAGGATCCTCCTGGACTTGCTT
7379 P   C       A              CGCGCCGAGGCTCCTCCTGGACTTGCT
7379 T   A       A              ATTGAAGCAAGTCCAGGAGGATCCAGAGAGCACGGCTGAGGACCGTAATTCCGG
7379 T   C       A              ATTGAAGCAAGTCCAGGAGGAGCCAGAGAGCACGGCTGAGGACCGTAATTCCGG
                                TTAAAGAACAGTCTAGTTCCGGAATTACGGTCCTCAGCCGTGCTCTCTGG[AC]TCCTCCTGGACTTGCTTCAATGCGGACCCTGGGTGCGGCAGGGGTGG
7379 IS  [AC]                   CTT
7437 I           A              CAACCAGCAGCCCCAAAACACAGTAGAAAGTTATGAACGT
7437 P   A       A              CGCGCCGAGGAGCTGTGTGTTTCTTGGAGY
7437 P   G       A              CGCGCCGAGGGGCTGTGTGTTTCTTGGAY
7437 T   A       A              GATTCTCCAAGAAACACACAGCTCGTTCATAACTTTCTACTGTGTTTTGGGGCTGCTGGTTGCT
7437 T   G       A              GATTCTCCAAGAAACACACAGCCCGTTCATAACTTTCTACTGTGTTTTGGGGCTGCTGGTTGCT
                                GCCCTGCGAAGCAACCAGCAGCCCCAAAACACAGTAGAAAGTTATGAACG[AG]GCTGTGTGTTTCTTGGAGAATCAGGAAGGCCTGGACAAGGTTGTGCCA
7437 IS  [AG]                   CA
7528 I           A              CGCTGGGCCTTGGTTTTCCATGAGTAAGGACAGA
7528 P   C       A              CGCGCCGAGGCTGGACTAAGTGCCGTTCY
7528 P   T       A              CGCGCCGAGGTTGGACTAAGTGCCGTTC
7528 T   C       A              TCATGAACGGCACTTAGTCCAGCTGTCCTTACTCATGGAAAACCAAGGCCCAGCGCA
7528 T   T       A              TCATGAACGGCACTTAGTCCAACTGTCCTTACTCATGGAAAACCAAGGCCCAGCGCA
                                GCAAGTTCCCCTCACTGCGCTGGGCCTTGGTTTTCCATGAGTAAGGACAG[CT]TGGACTAAGTGCCGTTCATGATGCTGGGGGCACCCACATTCAATGGCT
7528 IS  [CT]                   GT
7570 I           S              TGAAAACCATGAATCTTATTTACTGGGAAACCAGGCAGAATTATCTCTCAA
7570 P   A       S              CGCGCCGAGGTCTCACTTTAGGATGAACTGC
7570 P   G       S              CGCGCCGAGGCCTCACTTTAGGATGAACTGC
7570 T   A       S              AATTGCAGTTCATCCTAAAGTGAGATGAGAGATAATTCTGCCTGGTTTCCCAGTAAATAAGATTCATGGTTTTCA
7570 T   G       S              AATTGCAGTTCATCCTAAAGTGAGGTGAGAGATAATTCTGCCTGGTTTCCCAGTAAATAAGATTCATGGTTTTCA

7570 IS  [AG]                   CTCATTGTCTCCCTACTGACTTTCCTAATTGCAGTTCATCCTAAAGTGAG[AG]TGAGAGATAATTCTGCCTGGTTTCCCAGTAAATAAGATTCATGGTTTTCA
7624 I           A              GTAGGTGCCGACGGGGCAGCGT
7624 P   G       A              CGCGCCGAGGGATGCAGCGGTGGGY
7624 P   A       A              CGCGCCGAGGAATGCAGCGGTGGGTY
7624 T   G       A              CACCACCCACCGCTGCATCCGCTGCCCCGTCGGCACCTACCA
7624 T   A       A              CACCACCCACCGCTGCATTCGCTGCCCCGTCGGCACCTACCA
                                ATGCAGTGGTTCTGGCCAAACTCGGGCTGGTAGGTGCCGACGGGGCAGCG[GA]ATGCAGCGGTGGGTGGTGGTGTTGTAGTGGTGGCCGGGGGAGCAG
7624 IS  [GA]                   TGCAC
7633 I           S              GGGGACCCATCACATGACAACCACCCCAAA
7633 P   A       S              CGCGCCGAGGTGACCATCATCAGGAAGC
7633 P   G       S              CGCGCCGAGGCGACCATCATCAGGAAGC
7633 T   A       S              AGCGGCTTCCTGATGATGGTCATTGGGGTGGTTGTCATGTGATGGGTCCCCTC
7633 T   G       S              AGCGGCTTCCTGATGATGGTCGTTGGGGTGGTTGTCATGTGATGGGTCCCCTC
                                GTCCTCCTGGGGGCATATCTCAGTCAGGCAGCGGCTTCCTGATGATGGTC[AG]TTGGGGTGGTTGTCATGTGATGGGTCCCCTCCAGGTTACTAAAGGGT
7633 IS  [AG]                   GCA
7665 I           A              GCAGTACATGGGCCTCCTGCCGGGT
7665 P   A       A              CGCGCCGAGGACTGCATGTGACCCGG
7665 P   G       A              CGCGCCGAGGGCTGCATGTGACCCG
7665 T   A       A              GGCTCCGGGTCACATGCAGTCCCGGCAGGAGGCCCATGTACTGCTG
7665 T   G       A              GGCTCCGGGTCACATGCAGCCCCGGCAGGAGGCCCATGTACTGCTG
                                TATGACCATGTACAGTCAATACCTGGAGCGCCTACGCCGCTTCATTTCCCAGGAGCTGCCCAGCCAACGCGCCTAGCCAAGCTGCAGGGACCTCAGCAGT
                                ACATGGGCCTCCTGCCGGG[AG]CTGCATGTGACCCGGAGCCCAGGACCCTGCCTGGCACCCCAGGGGCCATGAGCCATGTTCAGGCGTCAGAGGTCCCT
7665 IS  [AG]                   CTTCT
7692 I           S              GCCTGCCCCCCCAACCTGGGA
7692 P   A       S              CGCGCCGAGGTCCGCCTCCCCCTY
7692 P   G       S              CGCGCCGAGGCCCGCCTCCCCCY
7692 T   A       S              GGGAAGGGGGAGGCGGACCCAGGTTGGGGGGGCAGGCAG
7692 T   G       S              GGGAAGGGGGAGGCGGGCCCAGGTTGGGGGGGCAGGCAG
                                CCACACAGAGGCCCAGCGGCGGCACTGGGTGGTGGGGAAGGGGGAGGCGG[AG]CCCAGGTTGGGGGGGCAGGCAGTCAGTGCGGTTGCCAGGAAGCG
7692 IS  [AG]                   GGAAAG
7731 I           S              AGGTCCTCAGGGGTCTGTTTCTGGCCCA
7731 P   A       S              CGCGCCGAGGTGGCTAGGTGAGATGGTTA
7731 P   G       S              CGCGCCGAGGCGGCTAGGTGAGATGGTY
7731 T   A       S              CCGGTAACCATCTCACCTAGCCAGGGCCAGAAACAGACCCCTGAGGACCTGC
7731 T   G       S              CCGGTAACCATCTCACCTAGCCGGGGCCAGAAACAGACCCCTGAGGACCTGC
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                                ACGGCCAGTACAATCTGTAGAGCTGAGCGATGTGCGCAGTGCCGGCGGCTCCCCAGCAGCAGTGCCACTCCGGTAACCATCTCACCTAGCC[AG]GGGCCA
7731 IS     [AG]                GAAACAGACCCCTGAGGACCTGCAGATTACTCTAGACCTGCTCCTCAAATACAAGGAAGCTAGCTCCAGTGCAGAGTACATGGTCATAG
14422 I             A           CRCCCCTCCATAATCAGCTTTCACCCCTGCTTT
14422 P     G       A           CGCGCCGAGGGGTGCCCACACACACY
14422 P     A       A           CGCGCCGAGGAGTGCCCACACACACAY
14422 T     G       A           GTGGTGTGTGTGTGGGCACCAAGCAGGGGTGAAAGCTGATTATGGAGGGGYGGT
14422 T     A       A           GTGGTGTGTGTGTGGGCACTAAGCAGGGGTGAAAGCTGATTATGGAGGGGYGGT
                                TAAAGCACTCAGGGGTTCCTTTGTGATGTTTCCTGACACCRCCCCTCCATAATCAGCTTTCACCCCTGCTT[GA]GTGCCCACACACACCACACACACACC
                                ACACACACACCTGCCTCCACCCCCAGCGATTCAGAGTGGAATCATTACTTTTAACTTCCATTCCCAGCAGGGAAAGTCTTTTTTTTGCTTTGACCCCAGATRTT
14422 IS    [GA]                CCTAC
14733 I             A           CCACAGCACTGGCCCTGCCTGGT
14733 P     G       A           CGCGCCGAGGGGACACACATCTCTATCCCTY
14733 P     A       A           CGCGCCGAGGAGACACACATCTCTATCCCTTY
14733 T     G       A           ATGGAAGGGATAGAGATGTGTGTCCCCAGGCAGGGCCAGTGCTGTGGGA
14733 T     A       A           ATGGAAGGGATAGAGATGTGTGTCTCCAGGCAGGGCCAGTGCTGTGGGA
                                TGCCCATGCATTGGGCCCTGACCCCTTCCCACAGCACTGGCCCTGCCTGG[GA]GACACACATCTCTATCCCTTCCATCCACCATGAACACATAACCAGCCT
14733 IS    [GA]                GC
14740 I             A           CAGCAGGAAGCTGGGTGATAAACTGGGACAAATGTA
14740 P     C       A           CGCGCCGAGGCCTTTTTCATAAGAAAGATTGGTGCY
14740 P     T       A           CGCGCCGAGGTCTTTTTCATAAGAAAGATTGGTGCY
14740 T     C       A           GGAAGCACCAATCTTTCTTATGAAAAAGGACATTTGTCCCAGTTTATCACCCAGCTTCCTGCTGCT
14740 T     T       A           GGAAGCACCAATCTTTCTTATGAAAAAGAACATTTGTCCCAGTTTATCACCCAGCTTCCTGCTGCT
                                AGAAGAAATCTGCAGCAGCAGGAAGCTGGGTGATAAACTGGGACAAATGT[CT]CTTTTTCATAAGAAAGATTGGTGCTTCCTTTTCTGTCCAGGCTGCCGAG
14740 IS    [CT]                A
14743 I             S           TGCCTAAAGACTTTTGTCAAATGCCACAGCCTCTACATTCTGA
14743 P     G       S           CGCGCCGAGGCTCCTTGAGTTCAGACAAATAACC
14743 P     A       S           CGCGCCGAGGTTCCTTGAGTTCAGACAAATAACC
14743 T     G       S           GTCAGGTTATTTGTCTGAACTCAAGGAGCAGAATGTAGAGGCTGTGGCATTTGACAAAAGTCTTTAGGCACC
14743 T     A       S           GTCAGGTTATTTGTCTGAACTCAAGGAACAGAATGTAGAGGCTGTGGCATTTGACAAAAGTCTTTAGGCACC
                                CTCTCGTTGGCAGATCTTGGGAGGTCAGGTTATTTGTCTGAACTCAAGGA[GA]CAGAATGTAGAGGCTGTGGCATTTGACAAAAGTCTTTAGGCACCCCCA
14743 IS    [GA]                GC
14760 I             S           TATTTCTAGTGGTTATACATCTATATCTTTTTATTGAAGGACTAGTTATTT
14760 P     T       S           CGCGCCGAGGAAGTTCATTCTTTTCTCTGTATTATTTTGT
14760 P     G       S           CGCGCCGAGGCAGTTCATTCTTTTCTCTGTATTATTTTGT
14760 T     T       S           AAACACAAAATAATACAGAGAAAAGAATGAACTTAATAACTAGTCCTTCAATAAAAAGATATAGATGTATAACCACTAGAAATA
14760 T     G       S           AAACACAAAATAATACAGAGAAAAGAATGAACTGAATAACTAGTCCTTCAATAAAAAGATATAGATGTATAACCACTAGAAATA
14760 IS    [TG]                cgcaaatatctcatgtaaaacacaaaataatacagagaaaagaatg[TG]aataactagtccttcaataaaaagatatagatgtataaccactagaaata
14763 I             A           GGCCCAGGCTGAGGGGCAGCA
14763 P     C       A           CGCGCCGAGGCAGCAGGGTGCAGGAY
14763 P     T       A           CGCGCCGAGGTAGCAGGGTGCAGGAAY
14763 T     C       A           GGAGTTCCTGCACCCTGCTGGCTGCCCCTCAGCCTGGGCCTG
14763 T     T       A           GGAGTTCCTGCACCCTGCTAGCTGCCCCTCAGCCTGGGCCTG
14763 IS    [CT]                catatgggcatctgcagctgtctgggggccaggcccaggctgagggcagc[CT]agcagggtgcagggaactcccaggccctcagctgcagcgcagagaagggt
14791 I             A           CCTGCCACGCATTCAGTCTTTACAGATGTTTCTTCTTCCTCT
14791 P     A       A           CGCGCCGAGGACATGTGGTCTTTGTAGGTCTY
14791 P     C       A           CGCGCCGAGGCCATGTGGTCTTTGTAGGTCY
14791 T     A       A           AGAAAGACCTACAAAGACCACATGTGAGGAAGAAGAAACATCTGTAAAGACTGAATGCGTGGCAGGAG
14791 T     C       A           AGAAAGACCTACAAAGACCACATGGGAGGAAGAAGAAACATCTGTAAAGACTGAATGCGTGGCAGGAG
14791 IS    [AC]                gatgttactcctgccacgcattcagtcttttacagatgttctcttcctc[AC]catgtggtcttttgtaggtcttttctgtggccatgcaaatttctcagattt
14826 I             A           TCTGTAATCCCTTCAAATAACCTGCTTTTGTTTTATTGTTTCTTTGTTGTT
14826 P     G       A           CGCGCCGAGGGTATTTAATAGTGTCTGACCTTATGTTTG
14826 P     A       A           CGCGCCGAGGATATTTAATAGTGTCTGACCTTATGTTTG
14826 T     G       A           GAAACAAACATAAGGTCAGACACTATTAAATACACAACAAAGAAACAATAAAACAAAAGCAGGTTATTTGAAGGGATTACAGA
14826 T     A       A           GAAACAAACATAAGGTCAGACACTATTAAATACACAACAAAGAAACAATAAAACAAAAGCAGGTTATTTGAAGGGATTACAGA
14826 IS    [GA]                tctgtaatcccttcaaataaccctgcttttgttttattgttttctttgttgtt[GA]tatttaatagtgtctgaccttatgtttgtttctttttcctctttttcc
14838 I             A           AGGGCTGTGGGTGGGAAAGACAGGTGAACT
14838 P     C       A           CGCGCCGAGGCCACAGTCCACTAGCCC
14838 P     G       A           CGCGCCGAGGGCACAGTCCACTAGCC
14838 T     C       A           CCAGGGGCTAGTGGACTGTGGGTTCACCTGTCTTTCCCACCCACAGCCCTGC
14838 T     G       A           CCAGGGGCTAGTGGACTGTGCGTTCACCTGTCTTTCCCACCCACAGCCCTGC
14838 IS    [CG]                gaggggtgtaccaggtttagccagggctgtgggtgggaaagacaggtgaac[CG]caggtccactagccccctgggaagccaggcaggggcaaaccaggtgc
14843 I             A           CTGCTAACAGTGAGATAAACCCTCTGTTATTAGTCTCTGAAATTAAATACT
14843 P     G       A           CGCGCCGAGGGTAAAGAACCAGGCTCAGAATT
14843 P     C       A           CGCGCCGAGGCTAAAGAACCAGGCTCAGAATTA
14843 T     G       A           GTGGTAATTCTGAGCCTGGTTCTTTACGTATTTAATTTCAGAGACTAATAACAGAGGGTTTATCTCACTGTTAGCAG
14843 T     C       A           GTGGTAATTCTGAGCCTGGTTCTTTAGGTATTTAATTTCAGAGACTAATAACAGAGGGTTTATCTCACTGTTAGCAG
14843 IS    [GC]                ctgctaaccagtgagatgaaacccctctgttattagtctctgaatttaaatact[GC]taaagaaccaggctcagaattacccaccaccaggcaggggtggaaccaagt
14846 I             S           CCTTTCTCTCCCTCCCAGCCGATGCCTGA
14846 P     A       S           CGCGCCGAGGTAGCAGGGTCCTTCTGC
14846 P     G       S           CGCGCCGAGGCAGCAGGGTCCTTCTG
14846 T     A       S           CTGGGCAGAAGGACCCTGCTACAGGCATCGGCTGGGAGGGAGAGAAAGGGA
14846 T     G       S           CTGGGCAGAAGGACCCTGCTGCAGGCATCGGCTGGGAGGGAGAGAAAGGGA
14846 IS    [AG]                ctcttcctgcacaggctgaggctgagctctgggcagaggcccctgct[AG]caggcatcggctgggagggagagaaagggagaacctgccctcaacctct
14872 I             S           GGGCAGACACTCAAGAAGGGTCAAATGCCAAAATACAACT
14872 P     C       S           CGCGCCGAGGGTGCTTAGGACATAGTCCAATT
14872 P     T       S           CGCGCCGAGGATGCTTAGGACATAGTCCAATTG
14872 T     C       S           TTTACAATTGGACTATGTCCTAAGCACGTTGTATTTTGGCATTTGACCCTTCTTGAGTGTCTGCCCTT
14872 T     T       S           TTTACAATTGGACTATGTCCTAAGCATGTTGTATTTTGGCATTTGACCCTTCTTGAGTGTCTGCCCTT
14872 IS    [CT]                tcctacagcatgcctccccattgttcccactgggcctatgtcctaagcc[CT]gtgtcattggccattgacccttcttgagtgtctgcccttgtttctcc
14874 I             A           CGGATTCAGCTCCTGGATCCAGGTGCAGTGT
14874 P     G       A           CGCGCCGAGGGGCTCCCAGCTTTTTCTC
14874 P     A       A           CGCGCCGAGGAGCTCCCAGCTTTTTCTC
14874 T     G       A           GGGAGAGAAAAAGCTGGGAGCCCACTGCACCTGGATCCAGGAGCTGAATCCGAG
14874 T     A       A           GGGAGAGAAAAAGCTGGGAGCTCACTGCACCTGGATCCAGGAGCTGAATCCGAG
14874 IS    [GA]                catttagagcagccaagctcggatctgagctcctgggtccagatgc[GA]gctcccagctttctctcccttgactacgtgggccgagaggggctgtgt
14891 I             S           TGTCCCCGCCTGCAGCGTCCTCA
14891 P     A       S           CGCGCCGAGGTTTGTAGCCACTGGTTTATCAG
14891 P     G       S           CGCGCCGAGGCTTGTAGCCACTGGTTTATCA
14891 T     A       S           GGGACTGATAAACCAGTGGCTACAAAGAGGACGCTGCAGGCGGGGACAGA
14891 T     G       S           GGGACTGATAAACCAGTGGCTACAAGGAGGACGCTGCAGGCGGGGACAGA
14891 IS    [AG]                ggcagccagggaagtcaccctggtggggcctgatcaaaccagtggctacaa[AG]gaggcagctgcaggcgggcacagaggaaagatggcttagtcttagtcta
14892 I             S           ACCTGCTTCTTGAGGCATGGCTCTCCCTT
14892 P     C       S           CGCGCCGAGGGTTCTGGACCACAGGCTY
14892 P     T       S           CGCGCCGAGGATTCTGGACCACAGGCTY
14892 T     C       S           AGGCAGCCTGTGGTCCAGAACAGGGAGAGCCATGCCTCAAGAAGCAGGTGC
14892 T     T       S           AGGCAGCCTGTGGTCCAGAATAGGGAGAGCCATGCCTCAAGAAGCAGGTGC
14892 IS    [CT]                gtctctgtccagatcggccccgctctggcagcggcagcctgtgtccagaa[CT]agggagagccatgcctcaagaagcaggtgcctctgctggaagggaggctg
14910 I             A           CCCGCTCTGCCACGGGCTCCT
```



14910 P	G	A	CGCGCCGAGGGCAGTCGGAGAAGAAGC
14910 P	A	A	CGCGCCGAGGACAGTCGGAGAAGAAGCA
14910 T	G	A	TGTGTGCTTCTTCTCCGACTGCGGAGCCCGTGGCAGAGCGGGCT
14910 T	A	A	TGTGTGCTTCTTCTCCGACTGTGGAGCCCGTGGCAGAGCGGGCT
14910 IS	[GA]		tgccgtgctggcggtgtgagcccagaaggagcccgctctgccacgggctcc[GA]cagtcggagaagaagcacacacatgtgaagacaggtgggaagcaggcggc
14914 I		S	CCCCGCAACCCCAGAGAGAGCCTCTT
14914 P	C	S	CGCGCCGAGGGCTTGGTTCCCAGCTG
14914 P	T	S	CGCGCCGAGGACTTGGTTCCCAGCTG
14914 T	C	S	CATGCAGCTGGGAACCAAGCAGAGGCTCTCTCTGGGGTTGCGGGGAT
14914 T	T	S	CATGCAGCTGGGAACCAAGTAGAGGCTCTCTCTGGGGTTGCGGGGAT
14914 IS	[CT]		cacccacacaaggcaggctgcagaggggcattagcacctgccagctgggaacccaag[CT]agaggctctctctgggggttgcggggatggtggcccttagcttggggctgg
14917 I		S	TAGATCACTTTAGTCACTTGCTCAAAGCAATATAGATTATAGATGGCAGTC
14917 P	A	S	CGCGCCGAGGTCTGGGACTTGAACATAATCTGY
14917 P	C	S	CGCGCCGAGGGCTGGGACTTGAACATAATCT
14917 T	A	S	TTTTCAGATTATGTTCAAGTCCCAGAACTGCCATCTATAATCTATATTGCTTTGAGCAAGTGACTAAAGTGATCTA
14917 T	C	S	TTTTCAGATTATGTTCAAGTCCCAGCACTGCCATCTATAATCTATATTGCTTTGAGCAAGTGACTAAAGTGATCTA
14917 IS	[AC]		tattagagaaccttctgtccagtgctttcagattctgtcaagtcccag[AC]ctgccatctataaactatatgctttgagcaagtgactaaagtgatcta
14922 I		S	GAGTGATGAGCTGGACAGCAACCCGGGT
14922 P	T	S	CGCGCCGAGGAAAGGCATCCACTCCAGG
14922 P	C	S	CGCGCCGAGGGAAGGCATCCACTCCAG
14922 T	T	S	CTGCCCTGGAGTGGATGCCTTTCCCGGGTTGCTGTCCAGCTCATCACTCCC
14922 T	C	S	CTGCCCTGGAGTGGATGCCTTCCCCGGGTTGCTGTCCAGCTCATCACTCCC
14922 IS	[TC]		tctgagctctgcggcctgggtgggcctgctgccctggagtggatgcctt[TC]ccgggttgctgtccagctctatcactccctgccccatggctgcacagag
14926 I		S	CCCCCTGGGGTTCTGCGGGCAA
14926 P	G	S	CGCGCCGAGGCGAAACCCGTTCATGCG
14926 P	A	S	CGCGCCGAGGTGAAACCCGTTCATGCG
14926 T	G	S	TCTGCGCATGAACGGGTTTCGTGCCCGCAGAACCCCAGGGGGTT
14926 T	A	S	TCTGCGCATGAACGGGTTTCATGCCCGCAGAACCCCAGGGGGTT
14926 IS	[GA]		ccccaggtgcaggtctgtgctggtgagtcttctgcgccatgaacgggtttc[GA]tgcccgcagaacccccaggggggttgcactgccatcatcctctcatttcacag
14929 I		A	CGGCACAGTGCAGAGCCACAGCCTT
14929 P	A	A	CGCGCCGAGGACTCAGTGCACCCCC
14929 P	G	A	CGCGCCGAGGGCTCAGTGCACCCC
14929 T	A	A	GAAGGGGGGTGCACTGAGTAGGCTGTGGCTCTGCACTGTGCCGCC
14929 T	G	A	GAAGGGGGGTGCACTGAGCAGGCTGTGGCTCTGCACTGTGCCGCC
14929 IS	[AG]		cttaagcctgttcctccagagctgggcggccacagtgcagagccacccgcct[AG]ctcagtgccccccctcttgggggctggaggcaaatgcagcgtgcacctc
14943 I		A	ACTCCTTACTGAGGCCCCTCATTCTCTGCCTT
14943 P	C	A	CGCGCCGAGGCGTGTGGTTACCCGC
14943 P	A	A	CGCGCCGAGGAGTGTGGTTACCCGCA
14943 T	C	A	AAGATGCGGGTAACCACACGAGGCAGAGAATGAGGGGCCTCAGTAAGGAGTGT
14943 T	A	A	AAGATGCGGGTAACCACACTAGGCAGAGAATGAGGGGCCTCAGTAAGGAGTGT
14943 IS	[CA]		gtgtgatggtaagactcacactcctactgaggcccctcctctctgcct[CA]gtgtggttacccgcatcttccctgcccatacagccatgcgtgggtcagag
14955 I		A	CAGTGCTGTGGGGAGTAGAGGTTTGGTGGACT
14955 P	C	A	CGCGCCGAGGCCTTTCAAATAAATGCTGAAAACCA
14955 P	A	A	CGCGCCGAGGACTTTCAAATAAATGCTGAAAACCA
14955 T	C	A	ACTCTGGTTTTCAGCATTTATTTGAAAGGGTCCACCAAACCTCTACTCCCCACAGCACTGGG
14955 T	A	A	ACTCTGGTTTTCAGCATTTATTTGAAAGTGTCCACCAAACCTCTACTCCCCACAGCACTGGG
14955 IS	[CA]		tacagtacacatgtgaacccagtgctgtgggagtagaggttggtggac[CA]cttcaaataaatgctgaaaacccagagtagggggtggagggtgtttcccaa
14960 I		A	CAGCACCCACTATGCAGTTCAAAACTTTATGTAGGCCTT
14960 P	G	A	CGCGCCGAGGGTTTTGTACTGGGCTCCAG
14960 P	C	A	CGCGCCGAGGCTTTTGTACTGGGCTCCAG
14960 T	G	A	GAACCTGGAGCCCAGTACAAAACAGGCCTACATAAAGTTTTGAACTGCATAGTGGGTGCTGCC
14960 T	C	A	GAACCTGGAGCCCAGTACAAAAGAGGCCTACATAAAGTTTTGAACTGCATAGTGGGTGCTGCC
14960 IS	[GC]		tcactgtgtaggcagcacccactatgcagttcaaaactttatgtaggcct[GC]ttttgtactgggctccaggttcagtgctggcaaataaacaagttcctgt
14966 I		S	GCAGCTGCCCCTCCACTCCCCTCTTAA
14966 P	A	S	CGCGCCGAGGTCCAAAGCCCCAGTAATCA
14966 P	G	S	CGCGCCGAGGCCCAAAGCCCCAGTAATC
14966 T	A	S	GGGCTGATTACTGGGGCTTTGGATAAGAGGGGAGTGGAGGGGCAGCTGCTG
14966 T	G	S	GGGCTGATTACTGGGGCTTTGGGTAAGAGGGGAGTGGAGGGGCAGCTGCTG
14966 IS	[AG]		cttcccaaagccagggactagactgtgggggctgattactgggcttggg[AG]taagaggggagtggaggggcagctgctgtgacaagtggttcccagaaattgt
15018 I		S	GTGCCAAAGGGCAGGTGCCATCAGCA
15018 P	A	S	CGCGCCGAGGTGGAGGAGGGAGCAG
15018 P	G	S	CGCGCCGAGGCGGAGGAGGGAGCAG
15018 T	A	S	GCTCCTGCTCCCTCCTCCAGCTGATGGCACCTGCCCTTTGGCACCC
15018 T	G	S	GCTCCTGCTCCCTCCTCCGGCTGATGGCACCTGCCCTTTGGCACCC
15018 IS	[AG]		GCACCAGGCTTTCCTGAGAGGAGGGGAGGGCCAAGCCCCCACTTGGGGGACCCCCGTGATGGGGCTCCTGCTCCCTCCTCC[AG]GCTGATGGCACCTGC CCTTTGGCACCCCAAGGTGGAGCCCCCAGCGACCTTCCCCTTCCAGCTGAGCATTGCTGTGGGGGAGAGGGGGAAGACGGGAGGAAAGAAGGGAGTGGT TC
15043 I		A	GGCTCATGCTATCCACCCTCTTCGGCCACA
15043 P	T	A	CGCGCCGAGGTGAAAGTGTTGGGATTGCA
15043 P	C	A	CGCGCCGAGGCGAAAGTGTTGGGATTGCA
15043 T	T	A	TGCCTGCAATCCCAACACTTTCAGTGGCCGAAGAGGGTGGATAGCATGAGCCCA
15043 T	C	A	TGCCTGCAATCCCAACACTTTCGGTGGCCGAAGAGGGTGGATAGCATGAGCCCA
15043 IS	[TC]		TCTTGAACTCCTGAACTTCTGGGCTCATGCTATCCACCCTCTTCGGCCAC[TC]GAAAGTGTTGGGATTGCAGGCATGAGCCAGTGTCCAGCCCAAAATAGTC T
23382 I		S	CCTGCTCAGCTGTCAGCCAGAAAAGACAAATAGCAT
23382 P	C	S	CGCGCCGAGGGTCCTTCTGTCTAGGCTGC
23382 P	G	S	CGCGCCGAGGCTCCTTCTGTCTAGGCTGC
23382 T	C	S	ACTGGCAGCCTAGACAGAAGGAGTGCTATTTGTCTTTTCTGGCTGACAGCTGAGCAGGAC
23382 T	G	S	ACTGGCAGCCTAGACAGAAGGAGTGCTATTTGTCTTTTCTGGCTGACAGCTGAGCAGGAC
23382 IS	[CG]		ATCTCCCTATTGCATGGATCTGCACTTGACTGGCAGCCTAGACAGAAGGA[CG]TGCTATTTGTCTTTTCTGGCTGACAGCTGAGCAGGACCAGCGCTGGCT GC
23383 I		S	GCAAGGGGGCCACACAGCCTTCCA
23383 P	G	S	CGCGCCGAGGCGGGAAACATGCACAGT
23383 P	A	S	CGCGCCGAGGTGGGAAACATGCACAGTG
23383 T	G	S	ACAGCACTGTGCATGTTTCCCGGGAAGGCTGTGTGGCCCCCTTGCCT
23383 T	A	S	ACAGCACTGTGCATGTTTCCCAGGAAGGCTGTGTGGCCCCCTTGCCT
23383 IS	[GA]		CTTTGTCTTCATGCGACTAGGAACGCACAACAGCACTGTGCATGTTTCCC[GA]GGAAGGCTGTGTGGCCCCCTTGCCTGAGGGCCTGCTGCAGTGGTGCTT CC
23385 I		A	GCCCCCGCAGTGTACGACCACCAT
23385 P	C	A	CGCGCCGAGGCCTTCCGGCCTGCT
23385 P	A	A	CGCGCCGAGGACTTCCGGCCTGCTT
23385 T	C	A	GGCTAAGCAGGCCGGAAGGTGGTGGTCGTACACTGCGGGGGCAT
23385 T	A	A	GGCTAAGCAGGCCGGAAGTTGGTGGTCGTACACTGCGGGGGCAT
23385 IS	[CA]		TCTATAGACATTGCCAGAAATACTGATGCCCCCGCAGTGTACGACCACCA[CA]CTTCCGGCCTGCTTAGCCACCATGGCCCTCAGGAAGCCCAGGAGATAG CT
23391 I		S	GGCGTGTGGGGGTGGCCCCT
23391 P	T	S	CGCGCCGAGGATGTCCCTGATGACTGCT
23391 P	C	S	CGCGCCGAGGGTGTCCCTGATGACTGC
23391 T	T	S	GGGAAGCAGTCATCAGGGACATGGGGCCACCCCCACACGCCTC

FIGURE 129E

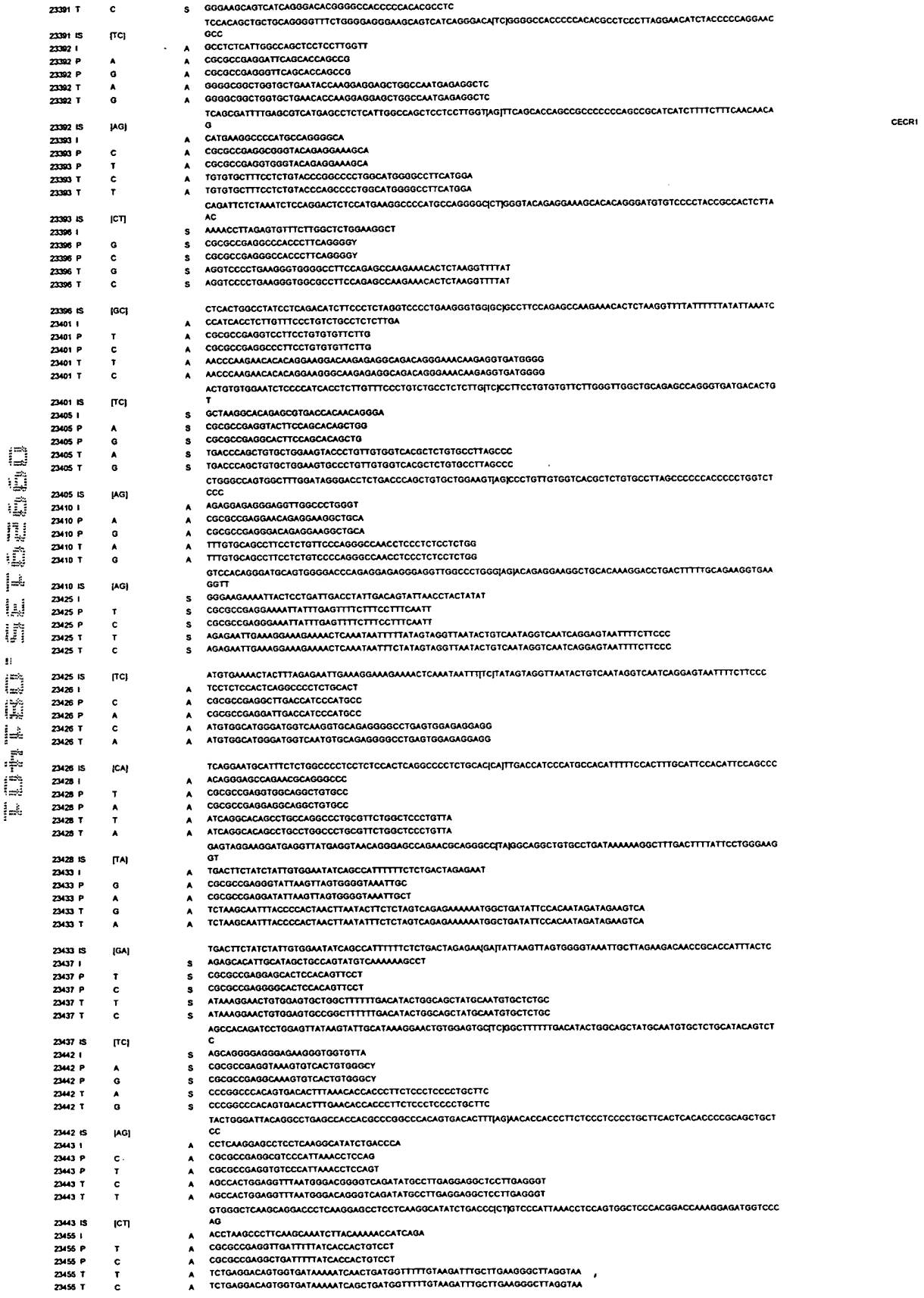

23391 T C S GGGAAGCAGTCATCAGGGACACGGGGCCACCCCCACACGCCTC
TCCACAGCTGCTGCAGGGGTTTCTGGGGAGGGAAGCAGTCATCAGGGACA[TC]GGGGCCACCCCCACACGCCTCCCTTAGGAACATCTACCCCCAGGAAC
23391 IS [TC] GCC
23392 I A GCCTCTCATTGGCCAGCTCCTCCTTGGTT
23392 P A A CGCGCCGAGGATTCAGCACCAGCCG
23392 P G A CGCGCCGAGGGTTCAGCACCAGCCG
23392 T A A GGGGCGGCTGGTGCTGAATACCAAGGAGGAGCTGGCCAATGAGAGGCTC
23392 T G A GGGGCGGCTGGTGCTGAACACCAAGGAGGAGCTGGCCAATGAGAGGCTC
TCAGCGATTTTGAGCGTCATGAGCCTCTCATTGGCCAGCTCCTCCTTGGT[AG]TTCAGCACCAGCCGCCCCCCCAGCCGCATCATCTTTTCTTTCAACAACA
23392 IS [AG] G
23393 I A CATGAAGGCCCCATGCCAGGGGCA
23393 P C A CGCGCCGAGGCGGGTACAGAGGAAAGCA
23393 P T A CGCGCCGAGGTGGGTACAGAGGAAAGCA
23393 T C A TGTGTGCTTTCCTCTGTACCCGGCCCCTGGCATGGGGCCTTCATGGA
23393 T T A TGTGTGCTTTCCTCTGTACCCAGCCCCTGGCATGGGGCCTTCATGGA
CAGATTCTCTAAATCTCCAGGACTCTCCATGAAGGCCCCATGCCAGGGGC[CT]GGGTACAGAGGAAAGCACACAGGGATGTGTCCCCTACCGCCACTCTTA
23393 IS [CT] AC
23396 I S AAAACCTTAGAGTGTTTCTTGGCTCTGGAAGGCT
23396 P G S CGCGCCGAGGCCCACCCTTCAGGGGY
23396 P C S CGCGCCGAGGGCCACCCTTCAGGGGY
23396 T G S AGGTCCCCTGAAGGGTGGGGCCTTCCAGAGCCAAGAAACACTCTAAGGTTTTAT
23396 T C S AGGTCCCCTGAAGGGTGGCGCCTTCCAGAGCCAAGAAACACTCTAAGGTTTTAT
CECR1
23396 IS [GC] CTCACTGGCCTATCCTCAGACATCTTCCCTCTAGGTCCCCTGAAGGGTGG[GC]GCCTTCCAGAGCCAAGAAACACTCTAAGGTTTTATTTTTTATATTAAATC
23401 I A CCATCACCTCTTGTTTCCCTGTCTGCCTCTCTTGA
23401 P T A CGCGCCGAGGTCCTTCCTGTGTGTTCTTG
23401 P C A CGCGCCGAGGCCCTTCCTGTGTGTTCTTG
23401 T T A AACCCAAGAACACACAGGAAGGACAAGAGAGGCAGACAGGGAAACAAGAGGTGATGGGG
23401 T C A AACCCAAGAACACACAGGAAGGGCAAGAGAGGCAGACAGGGAAACAAGAGGTGATGGGG
ACTGTGTGGAATCTCCCCATCACCTCTTGTTTCCCTGTCTGCCTCTCTTG[TC]CCTTCCTGTGTGTTCTTGGGTTGGCTGCAGAGCCAGGGTGATGACACTG
23401 IS [TC] T
23405 I S GCTAAGGCACAGAGCGTGACCACAACAGGGA
23405 P A S CGCGCCGAGGTACTTCCAGCACAGCTGG
23405 P G S CGCGCCGAGGCACTTCCAGCACAGCTG
23405 T A S TGACCCAGCTGTGCTGGAAGTACCCTGTTGTGGTCACGCTCTGTGCCTTAGCCC
23405 T G S TGACCCAGCTGTGCTGGAAGTGCCCTGTTGTGGTCACGCTCTGTGCCTTAGCCC
CTGGGCCAGTGGCTTTGGATAGGGACCTCTGACCCAGCTGTGCTGGAAGT[AG]CCCTGTTGTGGTCACGCTCTGTGCCTTAGCCCCCCACCCCCTGGTCT
23405 IS [AG] CCC
23410 I A AGAGGAGAGGGAGGTTGGCCCTGGGT
23410 P A A CGCGCCGAGGAACAGAGGAAGGCTGCA
23410 P G A CGCGCCGAGGGACAGAGGAAGGCTGCA
23410 T A A TTTGTGCAGCCTTCCTCTGTTCCCAGGGCCAACCTCCCTCTCCTCTGG
23410 T G A TTTGTGCAGCCTTCCTCTGTCCCCAGGGCCAACCTCCCTCTCCTCTGG
GTCCACAGGGATGCAGTGGGGACCCAGAGGAGAGGGAGGTTGGCCCTGGG[AG]ACAGAGGAAGGCTGCACAAAGGACCTGACTTTTTGCAGAAGGTGAA
23410 IS [AG] GGTT
23425 I S GGGAAGAAAATTACTCCTGATTGACCTATTGACAGTATTAACCTACTATAT
23425 P T S CGCGCCGAGGAAAATTATTTGAGTTTTCTTTCCTTTCAATT
23425 P C S CGCGCCGAGGGAAATTATTTGAGTTTTCTTTCCTTTCAATT
23425 T T S AGAGAATTGAAAGGAAAGAAAACTCAAATAATTTTTATAGTAGGTTAATACTGTCAATAGGTCAATCAGGAGTAATTTTCTTCCC
23425 T C S AGAGAATTGAAAGGAAAGAAAACTCAAATAATTTCTATAGTAGGTTAATACTGTCAATAGGTCAATCAGGAGTAATTTTCTTCCC
ATGTGAAAACTACTTTAGAGAATTGAAAGGAAAGAAAACTCAAATAATTT[TC]TATAGTAGGTTAATACTGTCAATAGGTCAATCAGGAGTAATTTTCTTCCC
23425 IS [TC]
23426 I A TCCTCTCCACTCAGGCCCCTCTGCACT
23426 P C A CGCGCCGAGGCTTGACCATCCCATGCC
23426 P A A CGCGCCGAGGATTGACCATCCCATGCC
23426 T C A ATGTGGCATGGGATGGTCAAGGTGCAGAGGGGCCTGAGTGGAGAGGAGG
23426 T A A ATGTGGCATGGGATGGTCAATGTGCAGAGGGGCCTGAGTGGAGAGGAGG
TCAGGAATGCATTTCTCTGGCCCCTCCTCTCCACTCAGGCCCCTCTGCAC[CA]TTGACCATCCCATGCCACATTTTTCCACTTTGCATTCCACATTCCAGCCC
23426 IS [CA]
23428 I A ACAGGGAGCCAGAACGCAGGGCCC
23428 P T A CGCGCCGAGGTGGCAGGCTGTGCC
23428 P A A CGCGCCGAGGAGGCAGGCTGTGCC
23428 T T A ATCAGGCACAGCCTGCCAGGCCCTGCGTTCTGGCTCCCTGTTA
23428 T A A ATCAGGCACAGCCTGCCTGGCCCTGCGTTCTGGCTCCCTGTTA
GAGTAGGAAGGATGAGGTTATGAGGTAACAGGGAGCCAGAACGCAGGGCC[TA]GGCAGGCTGTGCCTGATAAAAAAGGCTTTGACTTTTATTCCTGGGAAG
23428 IS [TA] GT
23433 I A TGACTTCTATCTATTGTGGAATATCAGCCATTTTTTCTCTGACTAGAGAAT
23433 P G A CGCGCCGAGGGTATTAAGTTAGTGGGGTAAATTGC
23433 P A A CGCGCCGAGGATATTAAGTTAGTGGGGTAAATTGCT
23433 T G A TCTAAGCAATTTACCCCACTAACTTAATACTTCTCTAGTCAGAGAAAAAATGGCTGATATTCCACAATAGATAGAAGTCA
23433 T A A TCTAAGCAATTTACCCCACTAACTTAATATTTCTCTAGTCAGAGAAAAAATGGCTGATATTCCACAATAGATAGAAGTCA
23433 IS [GA] TGACTTCTATCTATTGTGGAATATCAGCCATTTTTTCTCTGACTAGAGAA[GA]TATTAAGTTAGTGGGGTAAATTGCTTAGAAGACAACCGCACCATTTACTC
23437 I S AGAGCACATTGCATAGCTGCCAGTATGTCAAAAAAGCCT
23437 P T S CGCGCCGAGGAGCACTCCACAGTTCCT
23437 P C S CGCGCCGAGGGGCACTCCACAGTTCCT
23437 T T S ATAAAGGAACTGTGGAGTGCTGGCTTTTTTGACATACTGGCAGCTATGCAATGTGCTCTGC
23437 T C S ATAAAGGAACTGTGGAGTGCCGGCTTTTTTGACATACTGGCAGCTATGCAATGTGCTCTGC
AGCCACAGATCCTGGAGTTATAAGTATTGCATAAAGGAACTGTGGAGTGC[TC]GGCTTTTTTGACATACTGGCAGCTATGCAATGTGCTCTGCATACAGTCT
23437 IS [TC] C
23442 I S AGCAGGGGAGGGAGAAGGGTGGTGTTA
23442 P A S CGCGCCGAGGTAAAGTGTCACTGTGGGCY
23442 P G S CGCGCCGAGGCAAAGTGTCACTGTGGGCY
23442 T A S CCCGGCCCACAGTGACACTTTAAACACCACCCTTCTCCCTCCCCTGCTTC
23442 T G S CCCGGCCCACAGTGACACTTTGAACACCACCCTTCTCCCTCCCCTGCTTC
TACTGGGATTACAGGCCTGAGCCACCACGCCCGGCCCACAGTGACACTTT[AG]AACACCACCCTTCTCCCTCCCCTGCTTCACTCACACCCCGCAGCTGCT
23442 IS [AG] CC
23443 I A CCTCAAGGAGCCTCCTCAAGGCATATCTGACCCA
23443 P C A CGCGCCGAGGCGTCCCATTAAACCTCCAG
23443 P T A CGCGCCGAGGTGTCCCATTAAACCTCCAGT
23443 T C A AGCCACTGGAGGTTTAATGGGACGGGGTCAGATATGCCTTGAGGAGGCTCCTTGAGGGT
23443 T T A AGCCACTGGAGGTTTAATGGGACAGGGTCAGATATGCCTTGAGGAGGCTCCTTGAGGGT
GTGGGCTCAAGCAGGACCCTCAAGGAGCCTCCTCAAGGCATATCTGACCC[CT]GTCCCATTAAACCTCCAGTGGCTCCCACGGACCAAAGGAGATGGTCCC
23443 IS [CT] AG
23455 I A ACCTAAGCCCTTCAAGCAAATCTTACAAAAACCATCAGA
23455 P T A CGCGCCGAGGTTGATTTTTATCACCACTGTCCT
23455 P C A CGCGCCGAGGCTGATTTTTATCACCACTGTCCT
23455 T T A TCTGAGGACAGTGGTGATAAAAATCAACTGATGGTTTTTGTAAGATTTGCTTGAAGGGCTTAGGTAA
23455 T C A TCTGAGGACAGTGGTGATAAAAATCAGCTGATGGTTTTTGTAAGATTTGCTTGAAGGGCTTAGGTAA

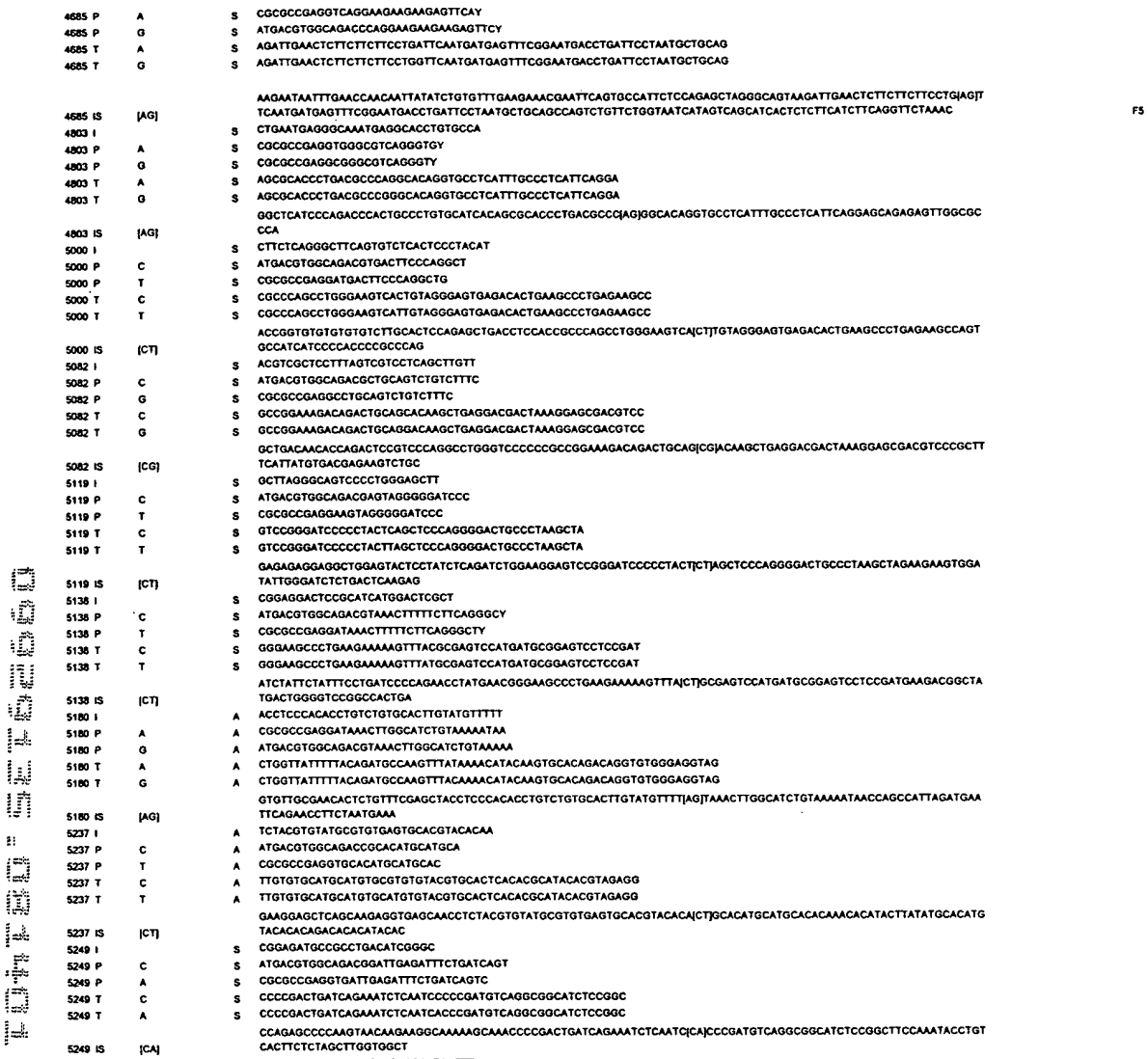
FIGURE 129E

23455 IS	[TC]		TTTATTAACCTTACCTAAGCCCTTCAAGCAAATCTTACAAAAACCATCAG[TC]TGATTTTTATCACCACTGTCCTCAGAAATCTTACTCCCTTTCTTTATACT
23471 I		S	TCCTTCACCCAGAGCCCTGTCAGTGGGA
23471 P	G	S	CGCGCCGAGGCTGCTGTAACCCCTCCA
23471 P	A	S	CGCGCCGAGGTTGCTGTAACCCCTCCA
23471 T	G	S	TCCCTGGAGGGGTTACAGCAGCCCACTGACAGGGCTCTGGGTGAAGGAGG
23471 T	A	S	TCCCTGGAGGGGTTACAGCAACCCACTGACAGGGCTCTGGGTGAAGGAGG
23471 IS	[GA]		GTTCTGTGTCCCAAAATCTCAGAGCTGAGCTCCCTGGAGGGGTTACAGCA[GA]CCCACTGACAGGGCTCTGGGTGAAGGAGGGTCAGCTGTGTGTGCAAC ATG
23483 I		A	CGGCTGCCCATCTCCTTTATGCTGTCCATAGTAAAAGTA
23483 P	T	A	CGCGCCGAGGTGCTAAGTAACACGATGGGAY
23483 P	C	A	CGCGCCGAGGCGCTAAGTAACACGATGGGY
23483 T	T	A	AAAATCCCATCGTGTTACTTAGCAACTTTTACTATGGACAGCATAAAGGAGATGGGCAGCCGGA
23483 T	C	A	AAAATCCCATCGTGTTACTTAGCGACTTTTACTATGGACAGCATAAAGGAGATGGGCAGCCGGA
23483 IS	[TC]		AGTCTTCTGTTCCGGCTGCCCATCTCCTTTATGCTGTCCATAGTAAAAGT[TC]GCTAAGTAACACGATGGGATTTTCTTTCTTGGGATCAAAGGTCTTGTTTT
23486 I		A	GGGGCAGGGCAGGGCCCAGT
23486 P	A	A	CGCGCCGAGGACAGGGAAGGGCCTG
23486 P	G	A	CGCGCCGAGGGCAGGGAAGGGCCT
23486 T	A	A	GCTGCAGGCCCTTCCCTGTCTGGGCCCTGCCCTGCCCCTT
23486 T	G	A	GCTGCAGGCCCTTCCCTGCCTGGGCCCTGCCCTGCCCCTT
23486 IS	[AG]		GGAGGTGTTCTGAAAGCAAAGGCTCATGGAAGGGGCAGGGCAGGGCCCAG[AG]CAGGGAAGGGCCTGCAGCCTCTCTAACAGGAGGAGAGTTCTGGAAG CAAC
23506 I		S	GGCTTTGCTACTGATGCTTGGGGTGACATCACTTT
23506 P	T	S	CGCGCCGAGGACTACCAATCATTAAGGGCCY
23506 P	G	S	CGCGCCGAGGCCTACCAATCATTAAGGGCCY
23506 T	T	S	TGATGGCCCTTAATGATTGGTAGTAAGTGATGTCACCCCAAGCATCAGTAGCAAAGCCAA
23506 T	G	S	TGATGGCCCTTAATGATTGGTAGGAAGTGATGTCACCCCAAGCATCAGTAGCAAAGCCAA
23506 IS	[TG]		TGGGGCCATAGAACAGCACAATAAAGGTGATGGCCCTTAATGATTGGTAG[TG]AAGTGATGTCACCCCAAGCATCAGTAGCAAAGCCAAAATGGCAATCTGC T
23509 I		A	TCCACTCACAGAGAAAAACGGCAGGCCTAGAATTAGAGAAT
23509 P	INS	A	CGCGCCGAGGAAGAAGCCCTCCCACC
23509 P	DEL	A	CGCGCCGAGGAGAAGCCCTCCCACC
23509 T	INS	A	CTTGGGTGGGAGGGCTTCTTTTCTCTAATTCTAGGCCTGCCGTTTTTCTCTGTGAGTGGACC
23509 T	DEL	A	CTTGGGTGGGAGGGCTTCTTTCTCTAATTCTAGGCCTGCCGTTTTTCTCTGTGAGTGGACC
23509 IS	[A-]		GAGATCAGGTCCACTCACAGAGAAAAACGGCAGGCCTAGAATTAGAGAAA[A-]GAAGCCCTCCCACCCAAGAAACAACTCTTACACATAGGATTACATATAGG
23512 I		S	GGAAGTTTGGGAACACGTGAACCCACCTGACTTACTT
23512 P	T	S	CGCGCCGAGGATGTGTTCCTCATCTGTTTTGT
23512 P	C	S	CGCGCCGAGGGTGTGTTCCTCATCTGTTTTGT
23512 T	T	S	GAAGACAAAACAGATGAGGAACACATAGTAAGTCAGGTGGGTTCACGTGTTCCCAAACTTCCCT
23512 T	C	S	GAAGACAAAACAGATGAGGAACACACAGTAAGTCAGGTGGGTTCACGTGTTCCCAAACTTCCCT
23512 IS	[TC]		TGCCAACTGCATCCTTAGGCACTTGGAAGACAAAACAGATGAGGAACACA[TC]AGTAAGTCAGGTGGGTTCACGTGTTCCCAAACTTCCCTGGCAACTCTGA T
23519 I		S	GGAACCAACATGGATTGTTTGCCAGATGAGAGACAGGTT
23519 P	T	S	CGCGCCGAGGATTTCCCCGCATGATCTAAG
23519 P	C	S	CGCGCCGAGGGTTTCCCCGCATGATCTAAG
23519 T	T	S	TTCACTTAGATCATGCGGGGAAATACCTGTCTCTCATCTGGCAAACAATCCATGTTGGTTCCCT
23519 T	C	S	TTCACTTAGATCATGCGGGGAAACACCTGTCTCTCATCTGGCAAACAATCCATGTTGGTTCCCT
23519 IS	[TC]		CAATGCACACCCTGTGACTTCTGAGGATTCACTTAGATCATGCGGGGAAA[TC]ACCTGTCTCTCATCTGGCAAACAATCCATGTTGGTTCCCTTCCCTGGCT C
23534 I		S	GAAGTGTGCAATTTATTCCCCAGCCTGGGCACA
23534 P	G	S	CGCGCCGAGGCGCTATCTGTCACAGTGTC
23534 P	A	S	CGCGCCGAGGTGCTATCTGTCACAGTGTCT
23534 T	G	S	TACAAGACACTGTGACAGATAGCAGTGCCCAGGCTGGGGAATAAATTGCACACTTCTG
23534 T	A	S	TACAAGACACTGTGACAGATAGCAGTGCCCAGGCTGGGGAATAAATTGCACACTTCTG
23534 IS	[GA]		AGTGAGCTATTCAGTCCCCTGCTGGGGTACAAGACACTGTGACAGATAGC[GA]GTGCCCAGGCTGGGGAATAAATTGCACACTTCTGCCAATAAAACTAGC CA
23536 I		S	CTGAATCTGCCTTCAAGGACTGATACAAAACCTTGTTTTTGTCCTTA
23536 P	A	S	CGCGCCGAGGTGAAGCTTTCTTAACTGCTACC
23536 P	G	S	CGCGCCGAGGCGAAGCTTTCTTAACTGCTACC
23536 T	A	S	TTTAGGTAGCAGTTAAGAAAGCTTCAAAGGACAAAAACAAGGTTTTGTATCAGTCCTTGAAGGCAGATTCAGGG
23536 T	G	S	TTTAGGTAGCAGTTAAGAAAGCTTCGAAGGACAAAAACAAGGTTTTGTATCAGTCCTTGAAGGCAGATTCAGGG
23536 IS	[AG]		AAGGGCACCCATTCCAGCAAATAACTTTAGGTAGCAGTTAAGAAAGCTTC[AG]AAGGACAAAAACAAGGTTTTGTATCAGTCCTTGAAGGCAGATTCAGGGC A
23539 I		A	CTGCCCCCTGCCTGGCTCCCA
23539 P	C	A	CGCGCCGAGGCTCTGCCTCTTAGAGCTTGT
23539 P	T	A	CGCGCCGAGGTTCTGCCTCTTAGAGCTTGT
23539 T	C	A	AGTTACAAGCTCTAAGAGGCAGAGGGGAGCCAGGCAGGGGGCAGGG
23539 T	T	A	AGTTACAAGCTCTAAGAGGCAGAAGGGAGCCAGGCAGGGGGCAGGG
23539 IS	[CT]		CCTGTCTTTCCACCTCCCTTGTTGTTCTCCCTGCCCCCTGCCTGGCTCCC[CT]TCTGCCTCTTAGAGCTTGTAACTGTCTTTGTTGATCCTTCTTGCAGACTT
23544 I		A	CATTCGTCTGCCTTCTCACAGCTTTCCTGAGTCCT
23544 P	G	A	CGCGCCGAGGGCTTGTCCACAGCTCC
23544 P	C	A	CGCGCCGAGGCCTTGTCCACAGCTCCT
23544 T	G	A	ACCAAGGAGCTGTGGACAAGCGGACTCAGGAAAGCTGTGAGAAGGCAGACGAATGTG
23544 T	C	A	ACCAAGGAGCTGTGGACAAGGGGACTCAGGAAAGCTGTGAGAAGGCAGACGAATGTG
23544 IS	[GC]		GGCGCTGGCCTCCGCACATTCGTCTGCCTTCTCACAGCTTTCCTGAGTCC[GC]CTTGTCCACAGCTCCTTGGTGGTTTCATCTCCTCTGTGGGAGGACACA TC
23545 I		A	CAGACCCAGGGGCCCATGACCAAGAAGT
23545 P	A	A	CGCGCCGAGGAAAGCAAGCACCATGACT
23545 P	C	A	CGCGCCGAGGCAAGCAAGCACCATGACT
23545 T	A	A	ACCCAGTCATGGTGCTTGCTTTCTTCTTGGTCATGGGCCCCTGGGTCTGGC
23545 T	C	A	ACCCAGTCATGGTGCTTGCTTGCTTCTTGGTCATGGGCCCCTGGGTCTGGC
23545 IS	[AC]		GGGAAACAGAACAACTGCCTAGCCAGACCCAGGGGCCCATGACCAAGAAG[AC]AAGCAAGCACCATGACTGGGTCCAGGCTGGCCCGAGGGGCCATGGT GCAG
23855 I		A	GTGCATGTCCTCAGTTTCTAACTTTACAGAAATCATACAAGATACACA
23855 P	C	A	CGCGCCGAGGCAAGCATGTCAGGCAGAC
23856 P	T	A	CGCGCCGAGGTAAGCATGTCAGGCAGACT
23855 T	C	A	AGGTAGTCTGCCTGACATGCTTGGTGTATCTTGTATGATTTCTGTAAAGTTAGAAACTGAGGACATGCACTC
23855 T	T	A	AGGTAGTCTGCCTGACATGCTTAGTGTATCTTGTATGATTTCTGTAAAGTTAGAAACTGAGGACATGCACTC
23855 IS	[CT]		TTCATCTCTTACTGGTTGTGACCCTCAAAGGCAGAGAGCTAAGCCTGGCTCCACATCAACTGCTGACTTTGCATTTTCTGAGTGCATGTCCTCAGTTTCTAA CTTTACAGAAATCATACAAGATACAC[CT]AAGCATGTCAGGCAGACTACCTTCAGTTTACAGTGGACTTCAGATGTCAAGGGTTAAAACTGTCAGAATCAGGT ATCAG
23858 I		S	GGGGGAAAATGGAAATCATTAACACAGCCAGTGAGAAGCTT
23858 P	G	S	CGCGCCGAGGCTGATCTTCATGACACCTGC
23858 P	T	S	CGCGCCGAGGATGATCTTCATGACACCTGC
23858 T	G	S	TGCTGCAGGTGTCATGAAGATCAGAGCTTCTCACTGGCTGTGTTAATGATTTCCATTTTCCCCCAT
23858 T	T	S	TGCTGCAGGTGTCATGAAGATCATAGCTTCTCACTGGCTGTGTTAATGATTTCCATTTTCCCCCAT



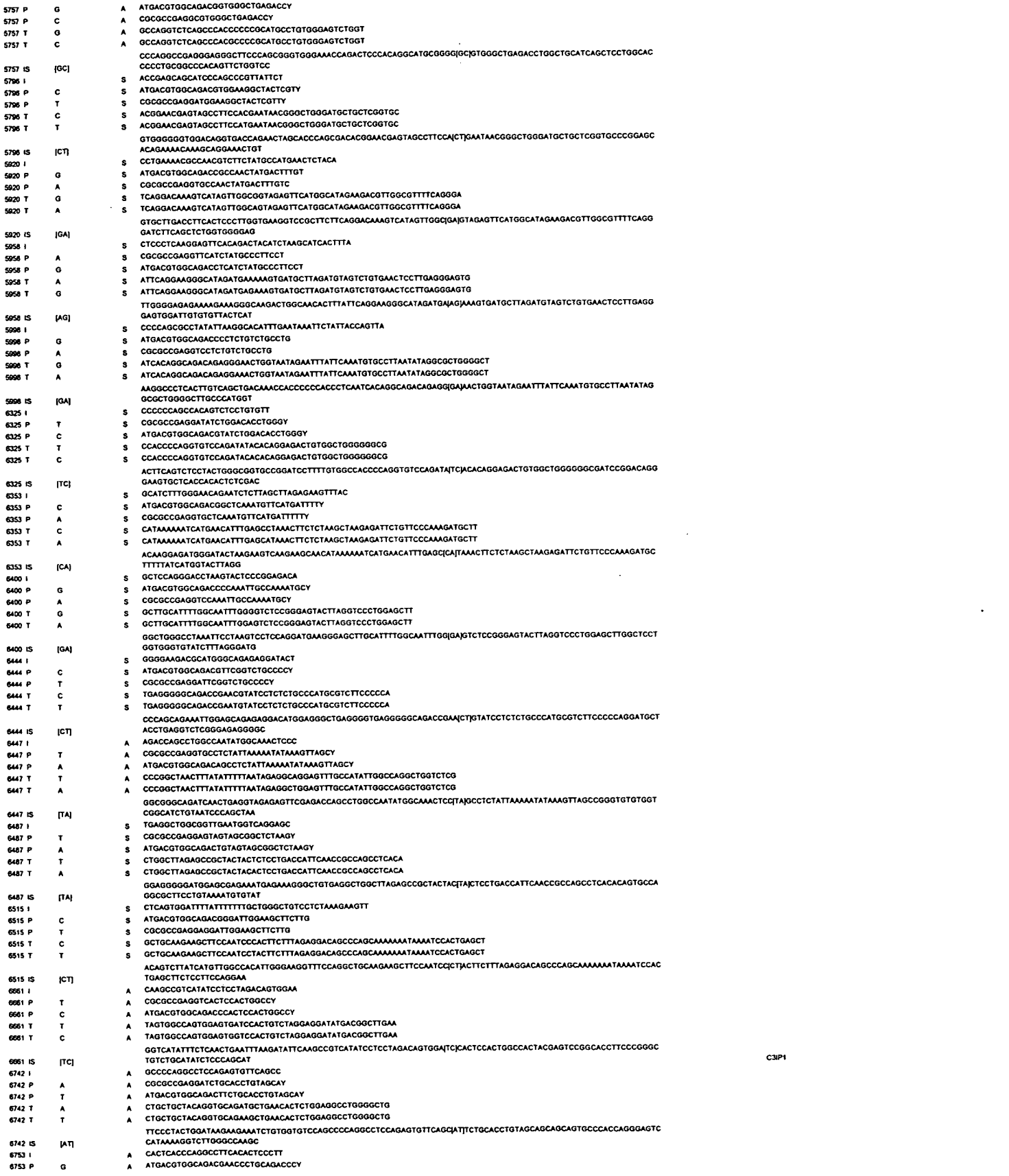
			GCTCCCACTGACTTCCATTGTTCATTATGTCCTGTATCTCTAGCCTGTTTCAAATGGAGAATCACCCTCTTCGCAAGGAGCRTGCTGCAGGTGTCATGAAGA
			TCA[GT]AGCTTCTCACTGGCTGTGTTAATGATTTCCATTTTCCCCCATCTCTGAGCCAAGCATCAGTGTGAGAGAACCTATGATACCTTAGGGCCAGAAAGG
23858	IS	[GT]	CATGC
23859	I	S	CGAATGACCATATCTGACTTCTGGGGGTTACTGGCAAAC
23859	P	A S	CGCGCCGAGGTGGAAAAGAGCAAAATGGAAGY
23859	P	T S	CGCGCCGAGGAGGAAAAGAGCAAAATGGAAGGY
23859	T	A S	TTCACCTTCCATTTTGCTCTTTTCCATTTGCCAGTAACCCCCAGAAGTCAGATATGGTCATTCGAA
23859	T	T S	TTCACCTTCCATTTTGCTCTTTTCCTTTTGCCAGTAACCCCCAGAAGTCAGATATGGTCATTCGAA
			GGMTGATATCAACACCCATTTGTAACCCCTGTAATACATGCATTACTTCTCCAATACTTCAATCCCCATTCACCTTCCATTTTGCTCTTTTCC[AT]TTTGCCAG
23859	IS	[AT]	TAACCCCCAGAAGTCAGATATGGTCATTCGAAAAGAACATGGTCTTTGGAATTAAACATGTGTCCTAATCCTGATTCTGCAACTT
23860	I	S	CCTTGGCTACATGCTGGGATAGGGGCTCATT
23860	P	T S	CGCGCCGAGGAGTAAGTTTGCCAGATTCAACC
23860	P	C S	CGCGCCGAGGGGTAAGTTTGCCAGATTCAAC
23860	T	T S	TTTTGGTTGAATCTGGCAAACTTACTATGAGCCCCTATCCCAGCATGTAGCCAAGGAA
23860	T	C S	TTTTGGTTGAATCTGGCAAACTTACCATGAGCCCCTATCCCAGCATGTAGCCAAGGAA
			TAGCGTTGTCAGATAAAATACAGGGCATCCTGTTTTCTTGTTTTTGTGGCGTTTTTTGGTTGAATCTGGCAAACTTAC[TC]ATGAGCCCCTATCCCAGCATGT
			AGCCAAGGAAACATAAAAGAGGAAAGAATAAATTTTCCTCCCTTTTTACCAATAGGGTGTGTCATGTTTCTGGACTGAACAGAAAAAATTGACCTGAGATGAG
23860	IS	[TC]	AAAA
23862	I	S	AGGGTAAGGGAGTGCATCTGGGCACCAT
23862	P	T S	CGCGCCGAGGAATGAAAGCCTCTTCTAATTCCC
23862	P	G S	CGCGCCGAGGCATGAAAGCCTCTTCTAATTCCC
23862	T	T S	ACATGGGAATTAGAAGAGGCTTTCATTTGGTGCCCAGATGCACTCCCTTACCCTCA
23862	T	G S	ACATGGGAATTAGAAGAGGCTTTCATGTGGTGCCCAGATGCACTCCCTTACCCTCA
			TGAGTACTACAGACATAGAATCTTCTCTCATAAATGACATGGGAATTAGAAGAGGCTTTCAT[TG]TGGTGCCCAGATGCACTCCCTTACCCTCATATTTGCTT
23862	IS	[TG]	TCTCCCCTTTCAGCGGAACCCCGGGTCATAGTCTTTC
23863	I	S	CCAATCRGGAGCCTCAGTGGATAGTATATCATTTCCACTCCTCTAAACT
23863	P	C S	CGCGCCGAGGGTCTTTAGAGAGATTACTCTTTTTCATAGT
23863	P	T S	CGCGCCGAGGATCTTTAGAGAGATTACTCTTTTTCATAGT
23863	T	C S	ATCAACTATGAAAAAGAGTAATCTCTCTAAAGACGTTTAGAGGAGTGGAAATGATATACTATCCACTGAGGCTCCYGATTGGTG
23863	T	T S	ATCAACTATGAAAAAGAGTAATCTCTCTAAAGATGTTTAGAGGAGTGGAAATGATATACTATCCACTGAGGCTCCYGATTGGTG
			TAAGCTTATATAAAGTAGTCCATTATCTAAGGGTGTCTGAAAGGTACCTGGAGGGCATCACTTGTGTAAGGCACTCTCTGTCACTCAGATCTGCCCATCAAC
			TATGAAAAAGAGTAATCTCTCTAAAGA[CT]GTTTAGAGGAGTGGAAATGATATACTATCCACTGAGGCTCCYGATTGGTGTTTTTCTTCATGGCTACCATCCA
23863	IS	[CT]	AAGGC
23865	I	S	CTCAGATTTCCTATCTCCTTGGCAAATCTGGTCACCACAAA
23865	P	A S	CGCGCCGAGGTACTCTTTAAAAAACACGCTCATG
23865	P	G S	CGCGCCGAGGCACTCTTTAAAAAACACGCTCAT
23865	T	A S	ATAACATGAGCGTGTTTTTTAAAGAGTATTGTGGTGACCAGATTTGCCAAGGAGATAGGAAATCTGAGTA
23865	T	G S	ATAACATGAGCGTGTTTTTTAAAGAGTGTTGTGGTGACCAGATTTGCCAAGGAGATAGGAAATCTGAGTA
			GAAAACTGAATGGCCGCTCTTGGGAAAGGGGACTCTTTGAGTCCCAACAAGCTCTAGTGTTGAATGTTTTCATACTAATAACATGAGCGTGTTTTTTAAAGA
			GT[AG]TTGTGGTGACCAGATTTGCCAAGGAGATAGGAAATCTGAGTAATGAGTGAAGCTGCCTGTCAATCATAAGGTAATTTGATAGGTGAAACAGAAACAG
23865	IS	[AG]	GTC
23875	I	A	AGAGGAACACACAGCAGTGGCAGGGACAGT
23875	P	A A	CGCGCCGAGGACAGCTAAACCCATGATCATG
23875	P	G A	CGCGCCGAGGGCAGCTAAACCCATGATCAT
23875	T	A A	CTATCATGATCATGGGTTTAGCTGTCTGTCCCTGCCACTGCTGTGTGTTCCTCTTG
23875	T	G A	CTATCATGATCATGGGTTTAGCTGCCTGTCCCTGCCACTGCTGTGTGTTCCTCTTG
			TCAAGCGCCAACAAGCAATAACAACCTAATGGGCACTTCCTAATGCCAGACTGGGCAACAGAGGTTTTTTAAAAAGTGAAAAACAAATGTTCCTGCCCTCAA
23875	IS	[AG]	GAGGAACACACAGCAGTGGCAGGGACAG[AG]CAGCTAAACCCATGATCATGATAGAGTGAGATCAATGCTGGARTTGAAGTATTATGTAGAGGAGCAGAAG
4331	I	A	GGGCGGCCCTCAAGGAGACCTTGT
4331	P	A A	CGCGCCGAGGAGGTGGGTGCTGGY
4331	P	C A	ATGACGTGGCAGACCGGTGGGTGCTGGY
4331	T	A A	TCAGCCAGCACCCACCTCAAGGTCTCCTTGAGGGCCGCCCGC
4331	T	C A	TCAGCCAGCACCCACCGCAAGGTCTCCTTGAGGGCCGCCCGC
			GCGCCAGGAGAGCCTGGCCGCCGCAGCCAGCATCAGTGAACATCCCCAGAAGGCAACCACCGAGCTGCCCTTGCTGCGGGCGGCCCTCAAGGAGACCTT
			G[AC]GGTGGGTGCTGGCTGAGGCCTCCCTGTGGCCCTGGCCCCCTGCTGGAGAGCAGCCCCCACTGGGTGGTGGCAGACAGAATCTGGGGCTGATAAAC
4331	IS	[AC]	AGCGT
4408	I	S	GCAGTAACAACAATGGCGTTCTGGTGTTTACTAACAAACACTTCT
4408	P	C S	ATGACGTGGCAGACGGAGTGGGGCATAAGGY
4408	P	T S	CGCGCCGAGGAGAGTGGGGCATAAGGY
4408	T	C S	TCTCCCTTATGCCCCACTCCGAAGTGTTTGTTAGTAAACACCAGAACGCCATTGTTGTTACTGCTG
4408	T	T S	TCTCCCTTATGCCCCACTCTGAAGTGTTTGTTAGTAAACACCAGAACGCCATTGTTGTTACTGCTG
			GGGGGTCGGGAGTGGAATCAATGAATGATGCCAGAGCAGATCAACTAACAAGAGGACCCTGATGAGCCCCAGGCAGAGGCGTCTCCCTTATGCCCCACTC[
4408	IS	[CT]	CT]GAAGTGTTTGTTAGTAAACACCAGAACGCCATTGTTGTTACTGCTGAATTTTATTTTGGGCTGTACATATTTAGATGCTTAAGGTAAAAATGATAAAGCC
4420	I	S	GAAAGCTCAGGAGTTGGTCTGCGGGTCTT
4420	P	C S	ATGACGTGGCAGACGCAGCTCAGTGCCY
4420	P	G S	CGCGCCGAGGCCAGCTCAGTGCCGY
4420	T	C S	GCCTCGGCACTGAGCTGCAGACCCGCAGACCAACTCCTGAGCTTTCTG
4420	T	G S	GCCTCGGCACTGAGCTGGAGACCCGCAGACCAACTCCTGAGCTTTCTG
			ATTCCAGGGTCACTGTTCCTTCCTGTCTCCCTGTGGGAATCAAGCCAGCTCCAGGCCAGAAGTGGGACTGTGAGGACATGGAGGCCTCGGCACTGAGCTG[
			CG]AGACCCGCAGACCAACTCCTGAGCTTTCTGGGCCTCTGAGTCTTGTCCTCCTGGTGTCAGGTGAGCCAGGCCTGAGCCTGCTCTCCCCACCCACCCAC
4420	IS	[CG]	AT
4505	I	A	GCAACCTCCCTGGGTGAGAGATGCTTTCAT
4505	P	A A	CGCGCCGAGGATCAGACTGCCTTGCCY
4505	P	G A	ATGACGTGGCAGACGTCAGACTGCCTTGCY
4505	T	A A	GCTGGGCAAGGCAGTCTGATTGAAAGCATCTCTCACCCAGGGAGGTTGCTT
4505	T	G A	GCTGGGCAAGGCAGTCTGACTGAAAGCATCTCTCACCCAGGGAGGTTGCTT
			ATAGTAACCTCCCTCTTCCCTTTCCAGACTTCCTGAGCCCTCATGGGTCAGCCTGGGACCCCAGCCGGGAAGCAACCTCCCTGGGTGAGAGATGCTTTCA[
			AG]TCAGACTGCCTTGCCCAGCTTGGGTGACCTGGCCTCAGCTCTGACACCAGATCCAACTTTGACCTGACCCTGACCCCAAACCCGAACCCAATCCTGTGA
4505	IS	[AG]	C
4587	I	A	AGGAGATGTTAGAGAAACCTGAGGAAGAGCAGAGTGCT
4587	P	A A	CGCGCCGAGGAGCAGGTGATGGGGY
4587	P	C A	ATGACGTGGCAGACCGCAGGTGATGGGGY
4587	T	A A	TCTCCCCCATCACCTGCTGCACTCTGCTCTTCCTCAGGTTTCTCTAACATCTCCTGG
4587	T	C A	TCTCCCCCATCACCTGCGGCACTCTGCTCTTCCTCAGGTTTCTCTAACATCTCCTGG
			AAGCCTGCACACTTGGGGGGAATGATCAAGATGAGAGGCAGGGGTGGGGATGGCATGTGCACCAGGAGATGTTAGAGAAACCTGAGGAAGAGCAGAGTG
			C[AC]GCAGGTGATGGGGGAGAGTGGGCAGCAAGCGAGGCCAGGACAGCCACTCTGCTCAGTCACCAGTCCACACACCCAGGGGCTCACTCTGCCCCTCT
4587	IS	[AC]	GAGCA
4648	I	A	AGTTTGTCTTCTAATGGGGTGAGTTTTCCAACAGTTGCTA
4648	P	C A	ATGACGTGGCAGACCAGAGTTGCATCTTATGTTTTGY
4648	P	T A	CGCGCCGAGGTAGAGTTGCATCTTATGTTTTGY
4648	T	C A	GGCCCAAAACATAAGATGCAACTCTGAGCAACTGTTGGAAAACTCACCCCATTAGAAGACAAACTGT
4648	T	T A	GGCCCAAAACATAAGATGCAACTCTAAGCAACTGTTGGAAAACTCACCCCATTAGAAGACAAACTGT
			TGAGTCCGGAGATGCAAGTATTCATGATACAGTAGAAAATCTGATCATCCTAGCAAACAACAGTTTGTCTTCTAATGGGGTGAGTTTTCCAACAGTTGCT[CT]
4648	IS	[CT]	AGAGTTGCATCTTATGTTTTGGGCCTGATTTGGAGAAGTCATTCATGGACAAGCAGATCCTCCTAAGGGGCAATCAGGAGAAGGAGTCCTGTTCCAGTGG
4685	I	S	GCAGCATTAGGAATCAGGTCATTCCGAAACTCATCATTGAAA

FIGURE 129E



Filed on behalf of Illumina Inc. by Pearl Cohen Zedek Latzer Baratz LLP

FIGURE 129E



C3IP1

FIGURE 129E

6753	P	A	A	CGCGCCGAGGAAACCCTGCAGACCCY	
6753	T	G	A	GAAGGGGTCTGCAGGGTTCAGGGAGTGTGAAGGCCTGGGTGAGTGAG	
6753	T	A	A	GAAGGGGTCTGCAGGGTTTAGGGAGTGTGAAGGCCTGGGTGAGTGAG	
6753	IS	[GA]		AACCAGAGCAGCTCCAGGATTCTGGAATCAGACTCACTCACCCAGGCCTTCACACTCCCT[GA]AACCCTGCAGACCCCTTCCCAGGCCTGGCTTGCCCCAC TCATCTCTGCTCCATCGTGGCC	
6756	I		A	AGGTGCTGGCTGCCCGTCTGAGAGA	
6756	P	C	A	ATGACGTGGCAGACCTCCCCGGAGCAGY	
6756	P	T	A	CGCGCCGAGGTTCCCCGGAGCAGY	
6756	T	C	A	GCCCCTGCTCCGGGGAGCTCTCAGACGGGCAGCCAGCACCTCA	
6756	T	T	A	GCCCCTGCTCCGGGGAACTCTCAGACGGGCAGCCAGCACCTCA	
6756	IS	[CT]		TCTGCGAGTAAGCAGGGAAGGAGCAGATGGGCAGTGAGGTGCTGGCTGCCCGTCTGAGAG[CT]TCCCCGGAGCAGGGGCCTCCAGCAGGGGCCGTGCC TTTGTGCTGAGCGGAAGCGGCAGGA	
6770	I		A	AGAACCAGCCTTGGCCACTGAGGAGTAACTA	
6770	P	T	A	CGCGCCGAGGTGCCAACTGCATGAACY	
6770	P	C	A	ATGACGTGGCAGACCGCCAACTGCATGAAY	
6770	T	T	A	AGTGGTTCATGCAGTTGGCAAGTTACTCCTCAGTGGCCAAGGCTGGTTCTTT	
6770	T	C	A	AGTGGTTCATGCAGTTGGCGAGTTACTCCTCAGTGGCCAAGGCTGGTTCTTT	
6770	IS	[TC]		TCCCACTATGCCCAGCCCCAAACTCCCTAAAGAACCAGCCTTGGCCACTGAGGAGTAACT[TC]GCCAACTGCATGAACCACTGAGCATCTGGAAAAAATAAA CAGAAAGATCTTAACATTCTC	
6851	I		A	CTCAGTTCAAATTCTTGGCCATCCTGAAAGGGCATT	
6851	P	A	A	CGCGCCGAGGATTCTTGGATTCCACCTGY	
6851	P	G	A	ATGACGTGGCAGACGTTCTTGGATTCCACCTGY	
6851	T	A	A	GCAGCAGGTGGAATCCAAGAATATGCCCTTTCAGGATGGCCAAGAATTTGAACTGAGCA	
6851	T	G	A	GCAGCAGGTGGAATCCAAGAACATGCCCTTTCAGGATGGCCAAGAATTTGAACTGAGCA	
6851	IS	[AG]		GTACTTATCTGGCAGCACTGAGATGCTCAGTTCAAATTCTTGGCCATCCTGAAAGGGCAT[AG]TTCTTGGATTCCACCTGCTGCTTCCAGGCCCCATACTCA CGGCTGTTCATGACCACACGA	CLC
7243	I		A	AAATGTTGGTGCAGAGTTGTAAAGGTTAGATTATTGGATTTGATAACAACT	
7243	P	A	A	CGCGCCGAGGACTAATGCTTGCTTGTAAATAAAATTTAC	
7243	P	C	A	CGCGCCGAGGCCTAATGCTTGCTTGTAAATAAAATTTAC	
7243	T	A	A	ATGGGTAAATTTTATTTACAAGCAAGCATTAGTGTTGTTATCAAATCCAATAATCTAACCTTTACAACTCTGCACCAACATTT	
7243	T	C	A	ATGGGTAAATTTTATTTACAAGCAAGCATTAGGGTTGTTATCAAATCCAATAATCTAACCTTTACAACTCTGCACCAACATTT	
7243	IS	[AC]		AAATGTTGGTGCAGAGTTGTAAAGGTTAGATTATTGGATTTGATAACAAC[AC]CTAATGCTTGCTTGTAAATAAAATTTACCCATGCTGCTCTTCTTTGGAGT	
7244	I		S	TTACTGCAGATGGAATTCAATCTAGTCCTTGTGATTAATATTTTCCTTTGC	
7244	P	A	S	CGCGCCGAGGTCTATGTCCCACTGCCCY	
7244	P	T	S	CGCGCCGAGGACTATGTCCCACTGCCCY	
7244	T	A	S	AGGTGGGCAGTGGGACATAGACAAAGGAAAATATTAATCACAAGGACTAGATTGAATTCCATCTGCAGTAA	
7244	T	T	S	AGGTGGGCAGTGGGACATAGTCAAAGGAAAATATTAATCACAAGGACTAGATTGAATTCCATCTGCAGTAA	
7244	IS	[AT]		TCACTCTAGCTGCAGGGATAGGGCAGAGCTAGGTGGGCAGTGGGACATAG[AT]CAAAGGAAAATATTAATCACAAGGACTAGATTGAATTCCATCTGCAGTA A	
7249	I		A	TCCAGCAGCTCAGTCCCCGAAGCCTT	
7249	P	INS	A	CGCGCCGAGGGGCCCCAGGCACCY	
7249	P	DEL	A	CGCGCCGAGGGCCCCAGGCACCCY	
7249	T	INS	A	AATCGGGTGCCTGGGGCCAGGCTTCGGGGACTGAGCTGCTGGAGG	
7249	T	DEL	A	AATCGGGTGCCTGGGGCAGGCTTCGGGGACTGAGCTGCTGGAGG	
7249	IS	[-G]		CACCCTCATGGGGCCATCAGCCCCTCCAGCAGCTCAGTCCCCGAAGCCTG[-G]CCCCAGGCACCCGATTGCTTTCCTGCTGGCCTCTCTCTAGCTTTAGGCCC	
7250	I		A	GGCGAGACCCAAACCATGCACTTCTATTACCAAAATACAACTAT	
7250	P	A	A	CGCGCCGAGGAAAGGCACACTCTCCCA	
7250	P	C	A	CGCGCCGAGGCAAGGCACACTCTCCCA	
7250	T	A	A	TAAGTGGGAGAGTGTGCCTTTTAGTTGTATTTTGGTAATAGAAGTGCATGGTTTGGGTCTCGCCCT	
7250	T	C	A	TAAGTGGGAGAGTGTGCCTTGTAGTTGTATTTTGGTAATAGAAGTGCATGGTTTGGGTCTCGCCCT	
7250	IS	[AC]		AAAATAGGGCGAGACCCAAACCATGCACTTCTATTACCAAAATACAACTA[AC]AAGGCACACTCTCCCACTTAGAGAGAAAAGATGAACCCACTGAGTGAAAT	
7253	I		A	CGCTTTCCATTAGCTCCTTCTCAACCTTGGTCCTTGACT	
7253	P	INS	A	CGCGCCGAGGCCAGGGGTCCCTACC	
7253	P	DEL	A	CGCGCCGAGGCAGGGGTCCCTACCAG	
7253	T	INS	A	GCGGCTGGTAGGGACCCCTGGGTCAAGGACCAAGGTTGAGAAGGAGCTAATGGAAAGCGAC	
7253	T	DEL	A	GCGGCTGGTAGGGACCCCTGGTCAAGGACCAAGGTTGAGAAGGAGCTAATGGAAAGCGAC	
7253	IS	[C-]		CAGGAGGCTGTCGCTTTCCATTAGCTCCTTCTCAACCTTGGTCCTTGACC[C-]AGGGGTCCCTACCAGCCGCCCTCCCGGCCTCCACAGGCCTTTGGGGCGTG	
7319	I		A	TCAGCTGTGCATGAGGGCGGCAGT	
7319	P	C	A	CGCGCCGAGGCGGGTACTTCTCATGGCY	
7319	P	A	A	CGCGCCGAGGAGGGTACTTCTCATGGCCY	
7319	T	C	A	GAAGGGCCATGAGAAGTACCCGCTGCCGCCCCTCATGCACAGCTGAGG	
7319	T	A	A	GAAGGGCCATGAGAAGTACCCTCTGCCGCCCCTCATGCACAGCTGAGG	
7319	IS	[CA]		AAGCAGTGGCGCTCACTTCCTCTCCCTCAGCTGTGCATGAGGGGCGGCAG[CA]GGGTACTTCTCATGGCCCTTCGAGGACAAAAGGGGCTCATGGGCTCG GGG	DKFZp5471094
7381	I		S	GTCTCTGTGTTCTGTAGCTAAATCACCCTCCAGCTGTGA	
7381	P	A	S	CGCGCCGAGGTGTGTCCGCACAATTTCTGY	
7381	P	G	S	CGCGCCGAGGCGTGTCCGCACAATTTCT	
7381	T	A	S	CCAGCAGAAATTGTGCGGACACACACAGCTGGAGGGTGATTTAGCTACAGAACACAGAGACCT	
7381	T	G	S	CCAGCAGAAATTGTGCGGACACGCACAGCTGGAGGGTGATTTAGCTACAGAACACAGAGACCT	
7381	IS	[AG]		TGCACACACAAAGCTTGTTTTTTAAAATCCAGCAGAAATTGTGCGGACAC[AG]CACAGCTGGAGGGTGATTTAGCTACAGAACACAGAGACCTGGAAAACCC A	
11157	I		A	TGCGACTTCACTGTTGCAGGCGACACTTA	
11157	P	T	A	CGCGCCGAGGTTCCCCTGGCACAGY	
11157	P	C	A	ATGACGTGGCAGACCTCCCCTGGCACAGY	
11157	T	T	A	AACACTGTGCCAGGGGAAAAGTGTCGCCTGCAACAGTGAAGTCGCAGG	
11157	T	C	A	AACACTGTGCCAGGGGAGAAGTGTCGCCTGCAACAGTGAAGTCGCAGG	
11157	IS	[TC]		CGCGCTCCTAAGTCAGGCATCTCACATCCACCTGCGACTTCACTGTTGCAGGCGACACTT[TC]TCCCCTGGCACAGTGTTGGGTGCTCATTTGCCCTCTTTA TTTAGCTCCAACTGAACTGAG	
11185	I		A	TGCCCATTCCTCCCTCAAACTTCTTGCCCTTAAATTAT	
11185	P	G	A	ATGACGTGGCAGACGAATTGAGAAGTCCCTGTGY	
11185	P	C	A	CGCGCCGAGGCAATTGAGAAGTCCCTGTGY	
11185	T	G	A	AACACACAGGGACTTCTCAATTCTAATTTAAGGGCAAGAAGTTTGAGGGAGGAATGGGCATA	
11185	T	C	A	AACACACAGGGACTTCTCAATTGTAATTTAAGGGCAAGAAGTTTGAGGGAGGAATGGGCATA	
11185	IS	[GC]		ACTGGAAGCTTACGACCTCTCTATGCCCATTCCTCCCTCAAACTTCTTGCCCTTAAATTA[GC]AATTGAGAAGTCCCTGTGTGTTCTTCCAACCTTTCCACTTA AAATGTGTGGCCTAAAAAT	
11241	I		S	CCCTTGTTACACAGCAGAGGGGGTGCAGA	
11241	P	A	S	CGCGCCGAGGTGTGTTGCTTCCACAGY	
11241	P	G	S	ATGACGTGGCAGACCGTGTTGCTTCCACAGY	
11241	T	A	S	AGGGCTGTGGAAGCAACACACTGCACCCCCTCTGCTGTGTAACAAGGGTG	
11241	T	G	S	AGGGCTGTGGAAGCAACACGCTGCACCCCCTCTGCTGTGTAACAAGGGTG	
11241	IS	[AG]		GTGTGGCCCCACCATCCCATGGAGATGCCCTGCCAGCTGGAAGGGCTGTGGAAGCAACAC[AG]CTGCACCCCCTCTGCTGTGTAACAAGGGTGCAAATGT GGACGCACTTGAGGCACATCGCC	
11347	I		A	GATCCCATTTGCCTTGATGGATTCATTTCGATACAACTTCACTCT	
11347	P	G	A	ATGACGTGGCAGACGAGAGCTCGCCGCY	
11347	P	A	A	CGCGCCGAGGAAGAGCTCGCCGCY	

FIGURE 129E

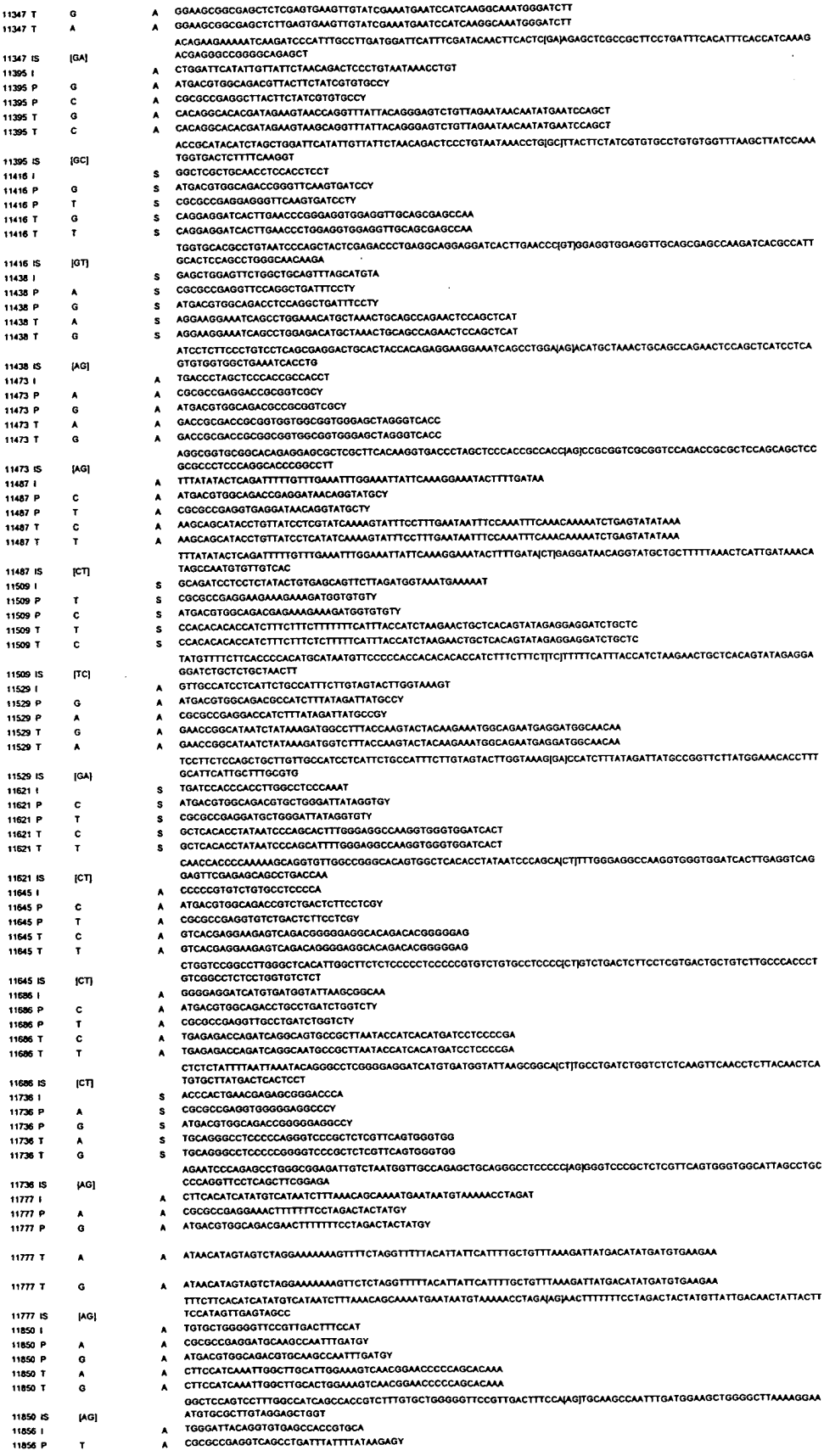
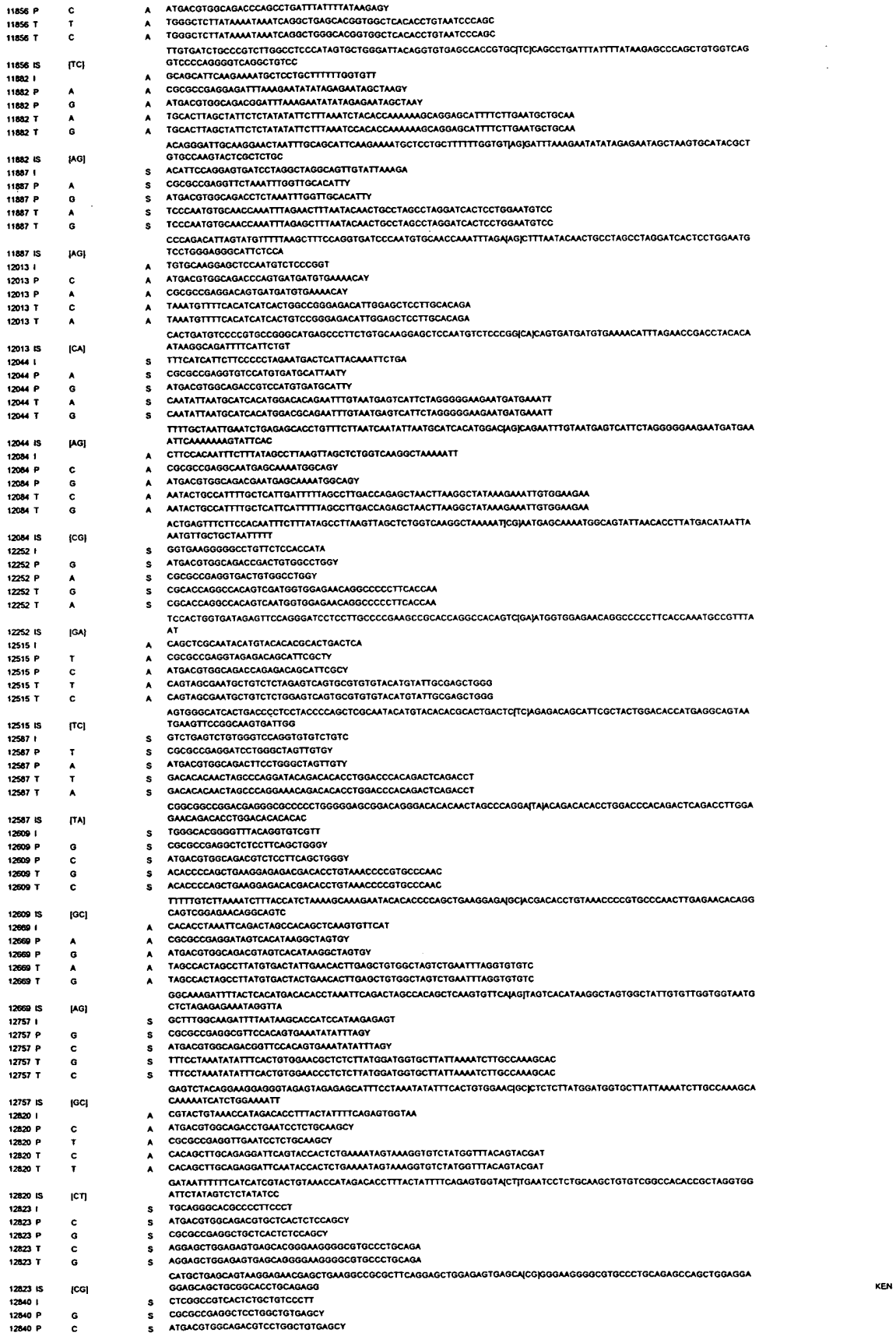

11347 T G A GGAAGCGGCGAGCTCTCGAGTGAAGTTGTATCGAAATGAATCCATCAAGGCAAATGGGATCTT
11347 T A A GGAAGCGGCGAGCTCTTGAGTGAAGTTGTATCGAAATGAATCCATCAAGGCAAATGGGATCTT
ACAGAAGAAAAATCAAGATCCCATTTGCCTTGATGGATTCATTTCGATACAACTTCACTC[GA]AGAGCTCGCCGCTTCCTGATTTCACATTTCACCATCAAAG
11347 IS [GA] ACGAGGGCCGGGGCAGAGCT
11395 I A CTGGATTCATATTGTTATTCTAACAGACTCCCTGTAATAAACCTGT
11395 P G A ATGACGTGGCAGACGTTACTTCTATCGTGTGCCY
11395 P C A CGCGCCGAGGCTTACTTCTATCGTGTGCCY
11395 T G A CACAGGCACACGATAGAAGTAACCAGGTTTATTACAGGGAGTCTGTTAGAATAACAATATGAATCCAGCT
11395 T C A CACAGGCACACGATAGAAGTAAGCAGGTTTATTACAGGGAGTCTGTTAGAATAACAATATGAATCCAGCT
ACCGCATACATCTAGCTGGATTCATATTGTTATTCTAACAGACTCCCTGTAATAAACCTG[GC]TTACTTCTATCGTGTGCCTGTGTGGTTTAAGCTTATCCAAA
11395 IS [GC] TGGTGACTCTTTTCAAGGT
11416 I S GGCTCGCTGCAACCTCCACCTCCT
11416 P G S ATGACGTGGCAGACCGGGTTCAAGTGATCCY
11416 P T S CGCGCCGAGGAGGGTTCAAGTGATCCTY
11416 T G S CAGGAGGATCACTTGAACCCGGGAGGTGGAGGTTGCAGCGAGCCAA
11416 T T S CAGGAGGATCACTTGAACCCTGGAGGTGGAGGTTGCAGCGAGCCAA
TGGTGCACGCCTGTAATCCCAGCTACTCGAGACCCTGAGGCAGGAGGATCACTTGAACCC[GT]GGAGGTGGAGGTTGCAGCGAGCCAAGATCACGCCATT
11416 IS [GT] GCACTCCAGCCTGGGCAACAAGA
11438 I S GAGCTGGAGTTCTGGCTGCAGTTTAGCATGTA
11438 P A S CGCGCCGAGGTTCCAGGCTGATTTCCTY
11438 P G S ATGACGTGGCAGACCTCCAGGCTGATTTCCTY
11438 T A S AGGAAGGAAATCAGCCTGGAAACATGCTAAACTGCAGCCAGAACTCCAGCTCAT
11438 T G S AGGAAGGAAATCAGCCTGGAGACATGCTAAACTGCAGCCAGAACTCCAGCTCAT
ATCCTCTTCCCTGTCCTCAGCGAGGACTGCACTACCACAGAGGAAGGAAATCAGCCTGGA[AG]ACATGCTAAACTGCAGCCAGAACTCCAGCTCATCCTCA
11438 IS [AG] GTGTGGTGGCTGAAATCACCTG
11473 I A TGACCCTAGCTCCCCACCGCCACCT
11473 P A A CGCGCCGAGGACCGCGGTCGCY
11473 P G A ATGACGTGGCAGACGCCGCGGTCGCY
11473 T A A GACCGCGACCGCGGTGGTGGCGGTGGGAGCTAGGGTCACC
11473 T G A GACCGCGACCGCGGCGGTGGCGGTGGGAGCTAGGGTCACC
AGGCGGTGCGGCACAGAGGAGCGCTCGCTTCACAAGGTGACCCTAGCTCCCACCGCCACC[AG]CCGCGGTCGCGGTCCAGACCGCGCTCCAGCAGCTCC
11473 IS [AG] GCGCCCTCCCAGGCACCCGGCCTT
11487 I A TTTATATACTCAGATTTTTGTTTGAAATTTGGAAATTATTCAAAGGAAATACTTTTGATAA
11487 P C A ATGACGTGGCAGACCGAGGATAACAGGTATGCY
11487 P T A CGCGCCGAGGTGAGGATAACAGGTATGCTY
11487 T C A AAGCAGCATACCTGTTATCCTCGTATCAAAAGTATTTCCTTTGAATAATTTCCAAATTTCAAACAAAAATCTGAGTATATAAA
11487 T T A AAGCAGCATACCTGTTATCCTCATATCAAAAGTATTTCCTTTGAATAATTTCCAAATTTCAAACAAAAATCTGAGTATATAAA
TTTATATACTCAGATTTTTGTTTGAAATTTGGAAATTATTCAAAGGAAATACTTTTGATA[CT]GAGGATAACAGGTATGCTGCTTTTTAAACTCATTGATAAACA
11487 IS [CT] TAGCCAATGTGTTGTCAC
11509 I S GCAGATCCTCCTCTATACTGTGAGCAGTTCTTAGATGGTAAATGAAAAAT
11509 P T S CGCGCCGAGGAAGAAAGAAAGATGGTGTGTY
11509 P C S ATGACGTGGCAGACGAGAAAGAAAGATGGTGTGTY
11509 T T S CCACACACACCATCTTTCTTTCTTTTTTTCATTTACCATCTAAGAACTGCTCACAGTATAGAGGAGGATCTGCTC
11509 T C S CCACACACACCATCTTTCTTTCTCTTTTTCATTTACCATCTAAGAACTGCTCACAGTATAGAGGAGGATCTGCTC
TATGTTTTCTTCACCCCACATGCATAATGTTCCCCCACCACACACACCATCTTTCTTTCT[TC]TTTTTCATTTACCATCTAAGAACTGCTCACAGTATAGAGGA
11509 IS [TC] GGATCTGCTCTGCTAACTT
11529 I A GTTGCCATCCTCATTCTGCCATTTCTTGTAGTACTTGGTAAAGT
11529 P G A ATGACGTGGCAGACGCCATCTTTATAGATTATGCCY
11529 P A A CGCGCCGAGGACCATCTTTATAGATTATGCCGY
11529 T G A GAACCGGCATAATCTATAAAGATGGTCTTTACCAAGTACTACAAGAAATGGCAGAATGAGGATGGCAACAA
11529 T A A GAACCGGCATAATCTATAAAGATGGTCTTTACCAAGTACTACAAGAAATGGCAGAATGAGGATGGCAACAA
TCCTTCTCCAGCTGCTTGTTGCCATCCTCATTCTGCCATTTCTTGTAGTACTTGGTAAAG[GA]CCATCTTTATAGATTATGCCGGTTCTTATGGAAACACCTTT
11529 IS [GA] GCATTCATTGCTTTGCGTG
11621 I S TGATCCACCCACCTTGGCCTCCCAAAT
11621 P C S ATGACGTGGCAGACGTGCTGGGATTATAGGTGY
11621 P T S CGCGCCGAGGATGCTGGGATTATAGGTGTY
11621 T C S GCTCACACCTATAATCCCAGCACTTTGGGAGGCCAAGGTGGGTGGATCACT
11621 T T S GCTCACACCTATAATCCCAGCATTTTGGGAGGCCAAGGTGGGTGGATCACT
CAACCACCCCAAAAAGCAGGTGTTGGCCGGGCACAGTGGCTCACACCTATAATCCCAGCA[CT]TTTGGGAGGCCAAGGTGGGTGGATCACTTGAGGTCAG
11621 IS [CT] GAGTTCGAGAGCAGCCTGACCAA
11645 I A CCCCCGTGTCTGTGCCTCCCCA
11645 P C A ATGACGTGGCAGACCGTCTGACTCTTCCTCGY
11645 P T A CGCGCCGAGGTGTCTGACTCTTCCTCGY
11645 T C A GTCACGAGGAAGAGTCAGACGGGGGAGGCACAGACACGGGGGAG
11645 T T A GTCACGAGGAAGAGTCAGACAGGGGAGGCACAGACACGGGGGAG
CTGGTCCGGCCTTGGGCTCACATTGGCTTCTCTCCCCCTCCCCCGTGTCTGTGCCTCCCC[CT]GTCTGACTCTTCCTCGTGACTGCTGTCTTGCCCACCCT
11645 IS [CT] GTCGGCCTCTCCTGGTGTCTCT
11686 I A GGGGAGGATCATGTGATGGTATTAAGCGGCAA
11686 P C A ATGACGTGGCAGACCTGCCTGATCTGGTCTY
11686 P T A CGCGCCGAGGTTGCCTGATCTGGTCTY
11686 T C A TGAGAGACCAGATCAGGCAGTGCCGCTTAATACCATCACATGATCCTCCCCGA
11686 T T A TGAGAGACCAGATCAGGCAATGCCGCTTAATACCATCACATGATCCTCCCCGA
CTCTCTATTTTAATTAAATACAGGGCCTCGGGGAGGATCATGTGATGGTATTAAGCGGCA[CT]TGCCTGATCTGGTCTCTCAAGTTCAACCTCTTACAACTCA
11686 IS [CT] TGTGCTTATGACTCACTCCT
11736 I S ACCCACTGAACGAGAGCGGGACCCA
11736 P A S CGCGCCGAGGTGGGGGAGGCCCY
11736 P G S ATGACGTGGCAGACCGGGGGAGGCCY
11736 T A S TGCAGGGCCTCCCCCAGGGTCCCGCTCTCGTTCAGTGGGTGG
11736 T G S TGCAGGGCCTCCCCCGGGGTCCCGCTCTCGTTCAGTGGGTGG
AGAATCCCAGAGCCTGGGCGGAGATTGTCTAATGGTTGCCAGAGCTGCAGGGCCTCCCCC[AG]GGGTCCCGCTCTCGTTCAGTGGGTGGCATTAGCCTGC
11736 IS [AG] CCCAGGTTCCTCAGCTTCGGAGA
11777 I A CTTCACATCATATGTCATAATCTTTAAACAGCAAAATGAATAATGTAAAAACCTAGAT
11777 P A A CGCGCCGAGGAAACTTTTTTTTCCTAGACTACTATGY
11777 P G A ATGACGTGGCAGACGAACTTTTTTTTCCTAGACTACTATGY
11777 T A A ATAACATAGTAGTCTAGGAAAAAAAGTTTTCTAGGTTTTTACATTATTCATTTTGCTGTTTAAAGATTATGACATATGATGTGAAGAA
11777 T G A ATAACATAGTAGTCTAGGAAAAAAAGTTCTCTAGGTTTTTACATTATTCATTTTGCTGTTTAAAGATTATGACATATGATGTGAAGAA
TTTCTTCACATCATATGTCATAATCTTTAAACAGCAAAATGAATAATGTAAAAACCTAGA[AG]AACTTTTTTTCCTAGACTACTATGTTATTGACAACTATTACTT
11777 IS [AG] TCCATAGTTGAGTAGCC
11850 I A TGTGCTGGGGGTTCCGTTGACTTTCCAT
11850 P A A CGCGCCGAGGATGCAAGCCAATTTGATGY
11850 P G A ATGACGTGGCAGACGTGCAAGCCAATTTGATGY
11850 T A A CTTCCATCAAATTGGCTTGCATTGGAAAGTCAACGGAACCCCCAGCACAAA
11850 T G A CTTCCATCAAATTGGCTTGCACTGGAAAGTCAACGGAACCCCCAGCACAAA
GGCTCCAGTCCTTTGGCCATCAGCCACCGTCTTTGTGCTGGGGGTTCCGTTGACTTTCCA[AG]TGCAAGCCAATTTGATGGAAGCTGGGGCTTAAAAGGAA
11850 IS [AG] ATGTGCGCTTGTAGGAGCTGGT
11856 I A TGGGATTACAGGTGTGAGCCACCGTGCA
11856 P T A CGCGCCGAGGTCAGCCTGATTTATTTTATAAGAGY

FIGURE 129E



KEN

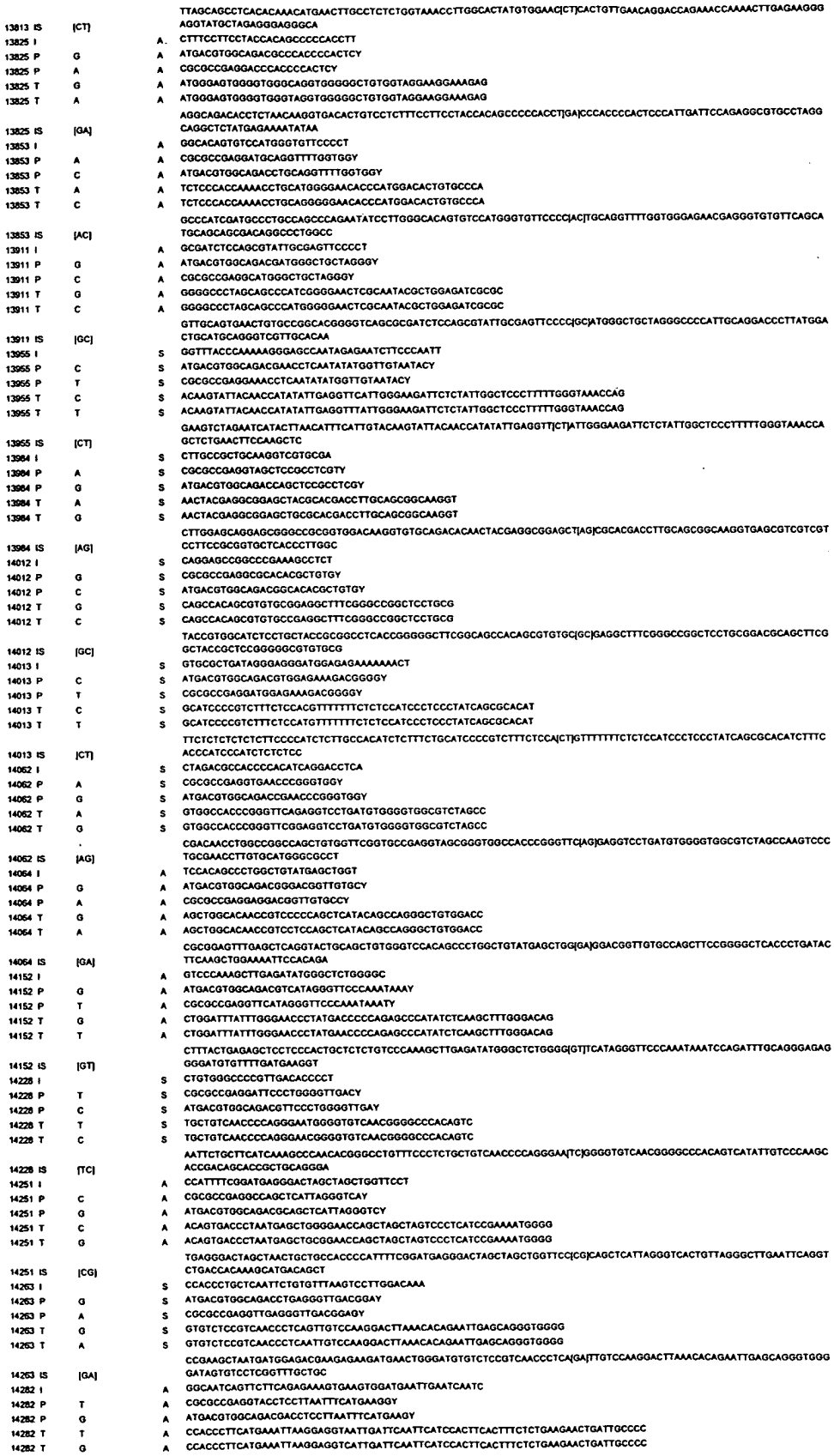
FIGURE 129E

12840	T	G	S	CTGAGCTCACAGCCAGGAGAGGGACAGCAGAGTGACGGCCGAGAC	
12840	T	C	S	CTGAGCTCACAGCCAGGACAGGGACAGCAGAGTGACGGCCGAGAC	
12840	IS	[GC]		AGGATTGGGGGTCTCCCCATTTCACAGGTGGGGACACTGAAGCTGAGCTCACAGCCAGGA[GC]AGGGACAGCAGAGTGACGGCCGAGACCATCTGCACT GCGAGGGAAGCAGCGCCCACCTTC	
12918	I		A	AGTGGGGACCTCCTGAGGCGCATGT	
12918	P	G	A	ATGACGTGGCAGACGTGAGGTGTGTTCTGTGY	
12918	P	C	A	CGCGCCGAGGCTGAGGTGTGTTCTGTGY	
12918	T	G	A	CCCACACAGAACACACCTCACCATGCGCCTCAGGAGGTCCCCACTCC	
12918	T	C	A	CCCACACAGAACACACCTCAGCATGCGCCTCAGGAGGTCCCCACTCC	
12918	IS	[GC]		CGAGGTAAGGCCAAGGTGGGCTGTGTGTGTGCAGGGAGTGGGGACCTCCTGAGGCGCATG[GC]TGAGGTGTGTTCTGTGTGGGTCACACTGGGAGACGG GGTGGTCCTGGCCTGGAGGAGCTG	
12929	I		S	GCCATAATTGTACGACCTGTTGTAATTGCTCCTCATGTCCT	
12929	P	T	S	CGCGCCGAGGATGAAACAAGTACACAGGATY	
12929	P	C	S	ATGACGTGGCAGACGTGAAACAAGTACACAGGATY	
12929	T	T	S	TCACATCCTGTGTACTTGTTTCATGGACATGAGGAGCAATTACAACAGGTCGTACAATTATGGCAA	
12929	T	C	S	TCACATCCTGTGTACTTGTTTCACGGACATGAGGAGCAATTACAACAGGTCGTACAATTATGGCAA	
12929	IS	[TC]		GACAGGATCATACTCCTGTAAAATAGAACTTTGTTGATCACATCCTGTGTACTTGTTTCA[TC]GGACATGAGGAGCAATTACAACAGGTCGTACAATTATGGC AAAATAATGGCCTTATTTTG	
12942	I		S	CTCTGCTCAGCGCTTTCCTTGTGGGGA	
12942	P	G	S	ATGACGTGGCAGACCTTATATCCCCGCCTGGY	
12942	P	A	S	CGCGCCGAGGTTTATATCCCCGCCTGGY	
12942	T	G	S	CTTTCCAGGCGGGGATATAAGCCCCACAAGGAAAGCGCTGAGCAGAGGA	
12942	T	A	S	CTTTCCAGGCGGGGATATAAACCCCACAAGGAAAGCGCTGAGCAGAGGA	
12942	IS	[GA]		ACCCCCTGCTGGCTCCCCCTCCCCCTGGGACTCCCCCTCCCTTTCCAGGCGGGGATATAA[GA]CCCCCACAAGGAAAGCGCTGAGCAGAGGAGGCCTCAGC TTGACCTGCGGCAGTGCAGCCCT	
13015	I		S	CGATGACCAGTTGCACCAGCTCCACCTAAT	
13015	P	T	S	CGCGCCGAGGAGGACACTAATCTTTGATCTGY	
13015	P	C	S	ATGACGTGGCAGACGGGACACTAATCTTTGATCTGY	
13015	T	T	S	AGCACAGATCAAAGATTAGTGTCCTTTAGGTGGAGCTGGTGCAACTGGTCATCGAT	
13015	T	C	S	AGCACAGATCAAAGATTAGTGTCCCTTAGGTGGAGCTGGTGCAACTGGTCATCGAT	
13015	IS	[TC]		GTCACTCACAGATAAAAAAAAACTCTCACTGTATAAAGCACAGATCAAAGATTAGTGTCC[TC]TTAGGTGGAGCTGGTGCAACTGGTCATCGATGGAGTAAAC TATTTGATTGATTGTGAACG	
13029	I		S	GTCCTGCCTCTGCTGCTACCCTGATGAT	
13029	P	C	S	ATGACGTGGCAGACGATCTGAGTTTGTTCTGCTY	
13029	P	T	S	CGCGCCGAGGAATCTGAGTTTGTTCTGCTY	
13029	T	C	S	CACCAGCAGAACAAACTCAGATCTCATCAGGGTAGCAGCAGAGGCAGGACCA	
13029	T	T	S	CACCAGCAGAACAAACTCAGATTTCATCAGGGTAGCAGCAGAGGCAGGACCA	
13029	IS	[CT]		GTGGACTCCAGCTCTACGTCCCACATTTTAGAATACCCCACCAGCAGAACAAACTCAGAT[CT]TCATCAGGGTAGCAGCAGAGGCAGGACCAGAAGGCAAT CAAGAGCTTCCAGAAATGCCAC	ATP1A2
13110	I		S	CCATCCCACAGTCTTCCCCAGACCTCTTCTCA	
13110	P	A	S	CGCGCCGAGGTAAGCCTGGCCTTCAGY	
13110	P	G	S	ATGACGTGGCAGACCAAGCCTGGCCTTCAY	
13110	T	A	S	GGAGCTGAAGGCCAGGCTTAGAGAAGAGGTCTGGGGAAGACTGTGGGATGGTG	
13110	T	G	S	GGAGCTGAAGGCCAGGCTTGGAGAAGAGGTCTGGGGAAGACTGTGGGATGGTG	
13110	IS	[AG]		CAGAGTCAGGGCTGGTGGCAAGAGGAGAGGGCTTTGGGGTGGGAGCTGAAGGCCAGGCTT[AG]GAGAAGAGGTCTGGGGAAGACTGTGGGATGGTGGG GTTTCTAGGAGACTGAAAACTCCCT	
13120	I		A	CCCATTGCTCGCACACTCCTCGTGCA	
13120	P	C	A	ATGACGTGGCAGACCGTGTTGTCATGCAGATY	
13120	P	T	A	CGCGCCGAGGTGTGTTGTCATGCAGATGY	
13120	T	C	A	GTGGCATCTGCATGACAACACGGCACGAGGAGTGTGCGAGCAATGGGCA	
13120	T	T	A	GTGGCATCTGCATGACAACACAGCACGAGGAGTGTGCGAGCAATGGGCA	
13120	IS	[CT]		GTCGGAACCCACCATGGTTGCTGGTGTCCACGTTGCCCATTGCTCGCACACTCCTCGTGC[CT]GTGTTGTCATGCAGATGCCACCTTCGGAGGTGCCCTCC GCTGTGTGAGCCACACGCCGGC	
13121	I		A	GCAGACTTGACTCTGTCTGCCAGCATATGCAGAGA	
13121	P	T	A	CGCGCCGAGGTCCCAAGGCCACCY	
13121	P	C	A	ATGACGTGGCAGACCCCCAAGGCCACCY	
13121	T	T	A	GTGGGGTGGCCTTGGGACTCTGCATATGCTGGCAGACAGAGTCAAGTCTGCCC	
13121	T	C	A	GTGGGGTGGCCTTGGGGCTCTGCATATGCTGGCAGACAGAGTCAAGTCTGCCC	
13121	IS	[TC]		CTCACACTCAGGCCAGACTCCCCTGGGCAGACTTGACTCTGTCTGCCAGCATATGCAGAG[TC]CCCAAGGCCACCCCACCAGAAGTGCCCCTGCCTGGGT TCTGTCCCAGCTCCCTGGGCACC	CXORF6
13135	I		A	GGGCAAAAGACCTCATGGAATCCAAGATGAAGGGAATATCT	
13135	P	A	A	CGCGCCGAGGAACAAATATTTGTGCGCACY	
13135	P	G	A	ATGACGTGGCAGACGACAAATATTTGTGCGCACY	
13135	T	A	A	GCAGGTGCGCACAAATATTTGTTGATATTCCCTTCATCTTGGATTCCATGAGGTCTTTTGCCCAG	
13135	T	G	A	GCAGGTGCGCACAAATATTTGTCGATATTCCCTTCATCTTGGATTCCATGAGGTCTTTTGCCCAG	
13135	IS	[AG]		CTACAGTAGAGCCACAGGCTGGGCAAAAGACCTCATGGAATCCAAGATGAAGGGAATATC[AG]ACAAATATTTGTGCGCACCTGCACCTAGTACAGGCTGG GTGCTACTCAGGTGCTGGGAAT	
13146	I		A	GCTGGAGTTGACAAAGTGGGTTGTTGCCAGC	
13146	P	T	A	CGCGCCGAGGTGATTAGTGTAGTAATGAAGCTATY	
13146	P	A	A	ATGACGTGGCAGACAGATTAGTGTAGTAATGAAGCTATY	
13146	T	T	A	AGACATAGCTTCATTACTACACTAATCACTGGCAACAACCCACTTTGTCAACTCCAGCCA	
13146	T	A	A	AGACATAGCTTCATTACTACACTAATCTCTGGCAACAACCCACTTTGTCAACTCCAGCCA	
13146	IS	[TA]		GGTTGGCAATATGAGAGGGTCAACATGGTGGCTGGAGTTGACAAAGTGGGTTGTTGCCAG[TA]GATTAGTGTAGTAATGAAGCTATGTCTCCTGAACAGTG AAGCCTGATCCTCCAGAAAATG	
13155	I		S	CCCAGACCCCGCCTTCCCGGT	
13155	P	C	S	ATGACGTGGCAGACGCCAGCGGGACATY	
13155	P	T	S	CGCGCCGAGGACCAGCGGGACATGY	
13155	T	C	S	CTGTCATGTCCCGCTGGCCCGGGAAGGCGGGGTCTGGGTG	
13155	T	T	S	CTGTCATGTCCCGCTGGTCCGGGAAGGCGGGGTCTGGGTG	
13155	IS	[CT]		GGCACCAGCCCCTCCTTGCCCCAGGCTTGAGTGACTCACAGGTCTGTCATGTCCCGCTGG[CT]CCGGGAAGGCGGGGTCTGGGTGGGAAGGTGGGCGG GCAGGTCAGCAGTTCCCAGGCCTGG	
13250	I		S	AGACACCATTCTCAGGGAGAATAAGTGGGGA	
13250	P	G	S	ATGACGTGGCAGACCCTCTCCGGAGGCY	
13250	P	A	S	CGCGCCGAGGTCTCTCCGGAGGCCY	
13250	T	G	S	CTTGGGCCTCCGGAGAGGCCCCACTTATTCTCCCTGAGAATGGTGTCTTA	
13250	T	A	S	CTTGGGCCTCCGGAGAGACCCCACTTATTCTCCCTGAGAATGGTGTCTTA	
13250	IS	[GA]		GGGCCTCCAGGAGGCCTTTCGGGTCTTCTGGGGAGCTGTGCCCCTTGGGCCTCCGGAGAG[GA]CCCCACTTATTCTCCCTGAGAATGGTGTCTTATATCT GGAACTCACTGCTTCTGTGTTCT	
13252	I		A	CTCGCCTCTGGTCCCCAGCAACGT	
13252	P	G	A	ATGACGTGGCAGACGTCAGACTTAAGAGTCCCCY	
13252	P	C	A	CGCGCCGAGGCTCAGACTTAAGAGTCCCCY	
13252	T	G	A	TCCAGGGGACTCTTAAGTCTGACCGTTGCTGGGGACCAGAGGCGAGGG	
13252	T	C	A	TCCAGGGGACTCTTAAGTCTGAGCGTTGCTGGGGACCAGAGGCGAGGG	
13252	IS	[GC]		CCATTCTGCACCTGGGGTCGACATTCTCAGATTAACCCTCGCCTCTGGTCCCCAGCAACG[GC]TCAGACTTAAGAGTCCCCTGGAGGGTAAATGTGAGGGT GTCAACAGGAACATGGGGACAC	
13277	I		A	CAGGAGGTGTGACTGCGCCCTGCA	
13277	P	C	A	ATGACGTGGCAGACCATGGGGTCGGAGAGY	
13277	P	T	A	CGCGCCGAGGTATGGGGTCGGAGAGGY	
13277	T	C	A	GCACCCTCTCCGACCCCATGGCAGGGCGCAGTCACACCTCCTGGG	

FIGURE 129E

13277 T	T		A	GCACCCTCTCCGACCCCATAGCAGGGCGCAGTCACACCTCCTGGG	
13277 IS	[CT]			CAATACCTGTAGGGAGAGGGGGTAGCGTGGGCGCTCCCAGGAGGTGTGACTGCGCCCTGC[CT]ATGGGGTCGGAGAGGGTGCTCTGGAGCTTCTCGGG CACAGGACTAGTTGACAGAGTCCAG	
13283 I		A		GGTGAAAAGCGGCCCGACCTGCTTGT	
13283 P	C	A		CGCGCCGAGGCGGTGTAGTGGGCGY	
13283 P	G	A		ATGACGTGGCAGACGGGTGTAGTGGGCGY	
13283 T	C	A		GGTCCGCCCACTACACCGCAAGCAGGTCGGGCCGCTTTTCACCCC	
13283 T	G	A		GGTCCGCCCACTACACCCCAAGCAGGTCGGGCCGCTTTTCACCCC	
13283 IS	[CG]			TTCATGTTTCCCGTCCCCCGCCCGCGAGAAGTGGGGGTGAAAAGCGGCCCGACCTGCTTG[CG]GGTGTAGTGGGCGGACCGCGCGGCTGGAGGTGTGA GGATCCGAACCCAGGGGTGGGGGGT	
13295 I		A		AGTAGCTAGGAACAGATCCACTTGCAGGTTGCTGA	
13295 P	T	A		CGCGCCGAGGTTCCCAGCCATGGCY	
13295 P	C	A		ATGACGTGGCAGACCTCCCAGCCATGGCY	
13295 T	T	A		CGAAGCCATGGCTGGGAACAGCAACCTGCAAGTGGATCTGTTCCTAGCTACTGC	
13295 T	C	A		CGAAGCCATGGCTGGGAGCAGCAACCTGCAAGTGGATCTGTTCCTAGCTACTGC	
13295 IS	[TC]			GCAGGAGCGGGCTTGCCCTGCGGAGCAGTAGCTAGGAACAGATCCACTTGCAGGTTGCTG[TC]TCCCAGCCATGGCTTCGCGCTGCTGGCGCTGGTGGG GCTGGTCGGCGTGGCCTCGGACCC	
13325 I		A		CAGTCAAGAGATGGCTCCAGACACCCCAT	
13325 P	C	A		CGCGCCGAGGCGTCCCATCACGAAGAY	
13325 P	G	A		ATGACGTGGCAGACGGTCCCATCACGAAGAY	
13325 T	C	A		TCTGTCTTCGTGATGGGACGTGGGGTGTCTGGAGCCATCTCTTGACTGCT	
13325 T	G	A		TCTGTCTTCGTGATGGGACCTGGGGTGTCTGGAGCCATCTCTTGACTGCT	
13325 IS	[CG]			CTTCCAGAAACCATCGTGGATCTGCTCAGGAGCAGTCAAGAGATGGCTCCAGACACCCCA[CG]GTCCCATCACGAAGACAGAGCCGGTCACGGGCACTCT GCAGAGAGCTCCAGACAATCAGG	
13470 I		A		GAACCAGAGAGGACAATGATCTTGATTCCCGGGTTTA	
13470 P	C	A		ATGACGTGGCAGACCCCAGGAGCGTCTTY	
13470 P	T	A		CGCGCCGAGGTCCAGGAGCGTCTTGY	
13470 T	C	A		GGGCCAAGACGCTCCTGGGAAACCCGGGAATCAAGATCATTGTCCTCTCTGGTTCTA	
13470 T	T	A		GGGCCAAGACGCTCCTGGAAAACCCGGGAATCAAGATCATTGTCCTCTCTGGTTCTA	
13470 IS	[CT]			TATGGCCTGTGGACCCCCATCCTAGAACCAGAGAGGACAATGATCTTGATTCCCGGGTTT[CT]CCAGGAGCGTCTTGGCCCGGTTCTACAGCCCCAGCCCA GATCTACTTCAAGAGCATCTCT	HAX1
13571 I		S		GCAGGCTGGGCAGAGAGGGATGCA	
13571 P	G	S		ATGACGTGGCAGACCCAGGCACAGCTGGY	
13571 P	A	S		CGCGCCGAGGTCAGGCACAGCTGGY	
13571 T	G	S		CTGCCCAGCTGTGCCTGGGCATCCCTCTCTGCCCAGCCTGCCC	
13571 T	A	S		CTGCCCAGCTGTGCCTGAGCATCCCTCTCTGCCCAGCCTGCCC	
13571 IS	[GA]			CCCCTGCACAGCACCCTCTCTAACCAGGCCCTCTTCCCGACTCCTGCCCAGCTGTGCCTG[GA]GCATCCCTCTCTGCCCAGCCTGCCCAGCAACAGCAGC CAGGAGAGGCCACTGGACACCCG	
13576 I		S		CGATACCAGGAGTGGAGGAGGGTGTCCCA	
13576 P	A	S		CGCGCCGAGGTGGGATACAGGTCTTCCY	
13576 P	G	S		ATGACGTGGCAGACCGGGATACAGGTCTTCCY	
13576 T	A	S		AGGAGGAAGACCTGTATCCCAGGGACACCCTCCTCCACTCCTGGTATCGTG	
13576 T	G	S		AGGAGGAAGACCTGTATCCCGGGGACACCCTCCTCCACTCCTGGTATCGTG	
13576 IS	[AG]			CTCCACTTCACTGATCCTGGGGGCAGAGGGTTAGAGAGCAAGGAGGAAGACCTGTATCCC[AG]GGGACACCCTCCTCCACTCCTGGTATCGTGGCTACTG GAGCAAGGTGCCATGTTTTCTCC	
13612 I		S		GCACCCACAGGGGCTCAGAACTATGACAA	
13612 P	G	S		ATGACGTGGCAGACCGTGTCAGTGTGGTTGY	
13612 P	A	S		CGCGCCGAGGTGTGTCAGTGTGGTTGY	
13612 T	G	S		CCTCCAACCACACTGACACGTGTCATAGTTCTGAGCCCCTGTGGGTGCTG	
13612 T	A	S		CCTCCAACCACACTGACACATGTCATAGTTCTGAGCCCCTGTGGGTGCTG	
13612 IS	[GA]			GGACGCTGGGCTGCAATCAGATCAGCTCTGAATCTGAGGACCCTCCAACCACACTGACAC[GA]TGTCATAGTTCTGAGCCCCTGTGGGTGCTGTGGGCAC CCTGGAACAGCCCCTGGAACTGG	
13683 I		S		TGGGTTCCTCAGCTGCATTGTCACGGTT	
13683 P	C	S		ATGACGTGGCAGACGACCGGACAGCATAAATTY	
13683 P	T	S		CGCGCCGAGGAACCGGACAGCATAAATTTY	
13683 T	C	S		GCGGAAATTTATGCTGTCCGGTCACCGTGACAATGCAGCTGAGGAACCCAGA	
13683 T	T	S		GCGGAAATTTATGCTGTCCGGTTACCGTGACAATGCAGCTGAGGAACCCAGA	
13683 IS	[CT]			TCCGCCCCTGAGGTTAATCTTAAAAGCCCAGGTTACCCGCGGAAATTTATGCTGTCCGGT[CT]ACCGTGACAATGCAGCTGAGGAACCCAGAACTACATCTG GGCTGCGCGCTTGCGCTTCGC	
13684 I		S		ACCCAAACACATGGAAAAGCAAAGGGAAGGGAGA	
13684 P	A	S		CGCGCCGAGGTACCCAATATCTGATACCTGAY	
13684 P	G	S		ATGACGTGGCAGACCACCCAATATCTGATACCTGY	
13684 T	A	S		TGCATCAGGTATCAGATATTGGGTACTCCCTTCCCTTTGCTTTTCCATGTGTTTGGGTGT	
13684 T	G	S		TGCATCAGGTATCAGATATTGGGTGCTCCCTTCCCTTTGCTTTTCCATGTGTTTGGGTGT	
13684 IS	[AG]			ATGTGCAACCTTGACTGCCAGGAAGAGCCAGATTCCTGCATCAGGTATCAGATATTGGGT[AG]CTCCCTTCCCTTTGCTTTTCCATGTGTTTGGGTGTGTTT GGGGAACTGGAGAGTCTCAAC	
13688 I		A		TGTTCCATGAAAGAAATAGAAAAATCCTAGAAACAAAACAAAAGAGACTC	
13688 P	T	A		CGCGCCGAGGTACTACATTATACAAGTAGTTTCTAGGY	
13688 P	G	A		ATGACGTGGCAGACGACTACATTATACAAGTAGTTTCTAGY	
13688 T	T	A		TAAACCTAGAAACTACTTGTATAATGTAGTAAGTCTCTTTTGTTTTGTTTCTAGGATTTTTCTATTTCTTTCATGGAACAAG	
13688 T	G	A		TAAACCTAGAAACTACTTGTATAATGTAGTCAGTCTCTTTTGTTTTGTTTCTAGGATTTTTCTATTTCTTTCATGGAACAAG	
13688 IS	[TG]			TTGTATTGTCTTGTTCCATGAAAGAAATAGAAAAATCCTAGAAACAAAACAAAAGAGACT[TG]ACTACATTATACAAGTAGTTTCTAGGTTTAACTTGAATTCTT GAGAAACCAATTCATCTG	
13723 I		S		CACAGGGTGTGGGGAAGTGGTTCCCATT	
13723 P	C	S		ATGACGTGGCAGACGTGGGTCGCAGACCY	
13723 P	G	S		CGCGCCGAGGCTGGGTCGCAGACCY	
13723 T	C	S		TTGAGGTCTGCGACCCACATGGGAACCACTTCCCCACACCCTGTGCC	
13723 T	G	S		TTGAGGTCTGCGACCCAGATGGGAACCACTTCCCCACACCCTGTGCC	
13723 IS	[CG]			GGCTGAGCTGCAGTGGGCTCTGCCTCTGGAGCCCATGTTTTTGTTGAGGTCTGCGACCCA[CG]ATGGGAACCACTTCCCCACACCCTGTGCCAATACCCG ACACATTGCACACCCAGGCTCCT	
13741 I		S		TCTTCCCACCCGCTCAGGCCTCCT	
13741 P	T	S		CGCGCCGAGGAGTCGGTCTGGCGY	
13741 P	G	S		ATGACGTGGCAGACCGTCGGTCTGGCGY	
13741 T	T	S		AGACCGCCAGACCGACTGGAGGCCTGAGCGGGTGGGAAGAGC	
13741 T	G	S		AGACCGCCAGACCGACGGGAGGCCTGAGCGGGTGGGAAGAGC	
13741 IS	[TG]			GTGGGGGTGAGGGGCGGGAATCCGGCTGCAACCGGGTCTGGTGGAGACCGCCAGACCGAC[TG]GGAGGCCTGAGCGGGTGGGAAGAGCTGCCTGAGC CCTGGACCTGGAGGGATTGGAGCCGC	
13773 I		S		CAGTCCCCTCCGGGCTGGCACT	
13773 P	T	S		CGCGCCGAGGAAGTGTGGGAGCAGCY	
13773 P	G	S		ATGACGTGGCAGACCAGTGTGGGAGCAGCY	
13773 T	T	S		CTCAGCTGCTCCCACACTTGTGCCAGCCCGGAGGGGACTGGT	
13773 T	G	S		CTCAGCTGCTCCCACACTGGTGCCAGCCCGGAGGGGACTGGT	
13773 IS	[TG]			CTGTCTGTCCTTCTGAAGTGTGTCCATCCTGACCTGCGGGTCCTCAGCTGCTCCCACACT[TG]GTGCCAGCCCGGAGGGGACTGGTCCCGGTCACCGCGG ACGTGCTGGCCTTGGTATGTGCC	SLC19A1
13813 I		A		TGCCTCTCTGGTAAACCTTGGCACTATGTGGAACA	
13813 P	C	A		ATGACGTGGCAGACCCACTGTTGAACAGGACY	
13813 P	T	A		CGCGCCGAGGTCACTGTTGAACAGGACY	
13813 T	C	A		TCTGGTCCTGTTCAACAGTGGGTTCCACATAGTGCCAAGGTTTACCAGAGAGGCAAG	
13813 T	T	A		TCTGGTCCTGTTCAACAGTGAGTTCCACATAGTGCCAAGGTTTACCAGAGAGGCAAG	

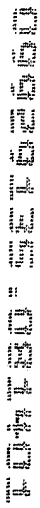
FIGURE 129E



NOV

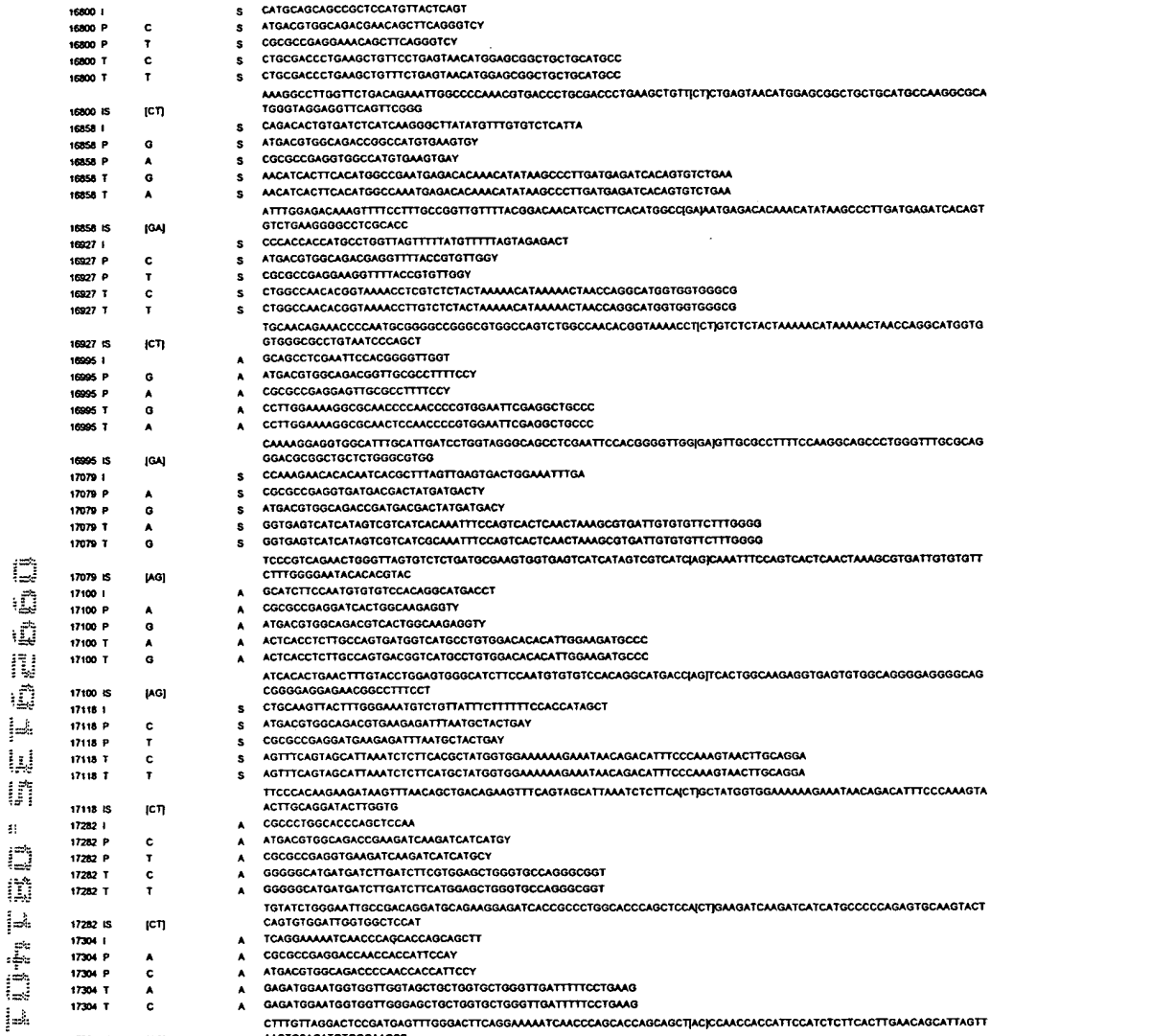
MULTIPLE SHORT GENE NAMES

FIGURE 129E



			TTATACTTAGTAGGGGCAATCAGTTCTTCAGAGAAAGTGAAGTGGATGAATTGAATCAAT[TG]ACCTCCTTAATTTCATGAAGGGTGGAAGACAGATGTGGTT	
14282 IS	[TG]		TAAGTCCCCCAAACCACACC	
14339 I		S	TCCACGGGCTTCCTGTTCTAGCTATTTTTAGGT	
14339 P	G	S	CGCGCCGAGGCCTTGACTATATTCTAACTAGTAACTAY	
14339 P	C	S	ATGACGTGGCAGACGCTTGACTATATTCTAACTAGTAACTY	
14339 T	G	S	GTACTAGTTACTAGTTAGAATATAGTCAAGGCCTAAAAATAGCTAGAACAGGAAGCCCGTGGATA	
14339 T	C	S	GTACTAGTTACTAGTTAGAATATAGTCAAGCCCTAAAAATAGCTAGAACAGGAAGCCCGTGGATA	
			CATTTAGGTTGATTGATTTCACTGTTTTAAGTACTAGTTACTAGTTAGAATATAGTCAAG[GC]CCTAAAAATAGCTAGAACAGGAAGCCCGTGGATAGATTTTG	
14339 IS	[GC]		AATTATCTGAGTGACCTTG	
14342 I		S	GTATGAGTTGTCATTTGTGAATGAGCAGTATGTAACCAATAGATAGA	
14342 P	G	S	ATGACGTGGCAGACCAGTGCACACTCCTAGAY	
14342 P	A	S	CGCGCCGAGGTAGTGCACACTCCTAGACY	
14342 T	G	S	TCTGGTCTAGGAGTGTGCACTGCTATCTATTGGTTACATACTGCTCATTCACAAATGACAACTCATACAT	
14342 T	A	S	TCTGGTCTAGGAGTGTGCACTACTATCTATTGGTTACATACTGCTCATTCACAAATGACAACTCATACAT	
			GAAATGAGCACTTGAAATTGTATCACAAATATGAGTGAATCTGGTCTAGGAGTGTGCAC[TGA]CTATCTATTGGTTACATACTGCTCATTCACAAATGACAAC	
14342 IS	[GA]		TCATACATATTATCTCACAT	
14771 I		S	TGTGGATGCAGTTCTCAAATGTGACAGTA[GATGTCACTGCA	
14771 P	G	S	CGCGCCGAGGCGACCAATAAACAGGATGTTCC	
14771 P	A	S	CGCGCCGAGGTGACCAATAAACAGGATGTTCC	
14771 T	G	S	GTCTGGAACATCCTGTTTATTGGTCGGCAGTGACATCTACTGTCACATTTGAGAACTGCATCCACAGC	
14771 T	A	S	GTCTGGAACATCCTGTTTATTGGTCAGCAGTGACATCTACTGTCACATTTGAGAACTGCATCCACAGC	
14771 IS	[GA]		cctgtgggcagggagcccegagtgtgtctggaac.ctcctgttattggtc[GA]gcagtgac.ctactgtc.ac.tttgagaactgc.tcc.ac.agcc.ac.ttgac	
16319 I		A	TCAACATCGCTGGCACGGTGGTCAAGTACT	
16319 P	C	A	ATGACGTGGCAGACCGGCGGCCCATY	
16319 P	A	A	CGCGCCGAGGAGGCGGCCCATGY	
16319 T	C	A	CATCCATGGGCCGCCGGTACTTGACCACCGTGCCAGCGATGTTGAAG	
16319 T	A	A	CATCCATGGGCCGCCTGTACTTGACCACCGTGCCAGCGATGTTGAAG	
			GGCAACTACAAGGTGGACAGCCCCAAGAACTTCAACATCGCTGGCACGGTGGTCAAGTAC[CA]GGCGGCCCATGGATGTCTATGAGACCGGAATCGAGTA	
16319 IS	[CA]		CATCGTGGCACAGGGGCCCACCA	KIAA0605
16331 I		A	GGAGGACCCTGGGCTTCAGGGACTT	
16331 P	A	A	CGCGCCGAGGATACTTTGGGATCCGAAGY	
16331 P	G	A	ATGACGTGGCAGACGTACTTTGGGATCCGAAGY	
16331 T	A	A	GAAGCTTCGGATCCCAAAGTATAGTCCCTGAAGCCCAGGGTCCTCCCC	
16331 T	G	A	GAAGCTTCGGATCCCAAAGTACAGTCCCTGAAGCCCAGGGTCCTCCCC	
			GGAACCCCCATTCCAGAGCATGGGCCCAGTGCACGGGGAGGACCCTGGGCTTCAGGGACT[AG]TACTTTGGGATCCGAAGCTTCGGGTTCCAGATGGGG	
16331 IS	[AG]		CCTGAGTTCTGGGTGGTTTTCAGC	
16480 I		S	GCTGTGCGGCACCGCCCCT	
16480 P	G	S	CGCGCCGAGGCTGTGGCAGGCAGGY	
16480 P	C	S	ATGACGTGGCAGACGTGTGGCAGGCAGY	
16480 T	G	S	CACCCCTGCCTGCCACAGGGGGCGGTGCCGCACAGCCT	
16480 T	C	S	CACCCCTGCCTGCCACACGGGGCGGTGCCGCACAGCCT	
			GCCTCCCTGGACCACTCCCACCCCACCAGCATGGCCCTGCAGCCACCCCTGCCTGCCACA[GC]GGGGCGGTGCCGCACAGCCTTCCCTGGAGCCCCAGC	
16480 IS	[GC]		CTGGGGACACCGGGGGTGGGAGTC	
16515 I		S	CCTGGGCAGGGCCCTCCGTC	
16515 P	A	S	CGCGCCGAGGTGCAGCTTTCTGTCTTGY	
16515 P	C	S	ATGACGTGGCAGACGGCAGCTTTCTGTCTTGY	
16515 T	A	S	GGCTCAAGACAGAAAGCTGCAACGGAGGGCCCTGCCCAGGTA	
16515 T	C	S	GGCTCAAGACAGAAAGCTGCCACGGAGGGCCCTGCCCAGGTA	
			AGGCAGAGGCCCTCTGTGGAGGAGGCTGCCGGGAGCCATGGGCTCAAGACAGAAAGCTGC[AC]ACGGAGGGCCCTGCCCAGGTAACTCCCATCCCCGAT	
16515 IS	[AC]		CCAGAGGAGAGCCTGGGACAGGAA	
16570 I		A	AACCCTGTCTCTACTAAAAATACAAAAAATTAGCCGGGCGTGT	
16570 P	C	A	CGCGCCGAGGCTGGCGGGCGCY	
16570 P	G	A	ATGACGTGGCAGACGTGGCGGGCGCY	
16570 T	C	A	ACAGGCGCCCGCCAGCACGCCCGGCTAATTTTTTGTATTTTTAGTAGAGACAGGGTTTC	
16570 T	G	A	ACAGGCGCCCGCCACCACGCCCGGCTAATTTTTTGTATTTTTAGTAGAGACAGGGTTTC	
			TCCTAGCTAACATTGTGAAACCCTGTCTCTACTAAAAATACAAAAAATTAGCCGGGCGTG[CG]TGGCGGGCGCCTGTAGTCCCAGCTACTCAGGAGGCTGA	
16570 IS	[CG]		GGCAGGAGAATGGCATGAACCC	MULTIPLE SHORT GENE NAMES
16574 I		S	CGGCAAAAGTCCCGCCCCCTCGT	
16574 P	T	S	CGCGCCGAGGACAAAGTCCCGCCCY	
16574 P	C	S	ATGACGTGGCAGACGCAAAGTCCCGCCY	
16574 T	T	S	TTGGGGGCGGGACTTTGTCGAGGGGGCGGGACTTTTGCCGAG	
16574 T	C	S	TTGGGGGCGGGACTTTGCCGAGGGGGCGGGACTTTTGCCGAG	
			GACCCGGCACGCCCCGCCCTGTCCACCGCCCGGGGCCACCATCTTGGGGGCGGGACTTTG[TC]CGAGGGGGCGGGACTTTTGCCGAGGGGGCGGGGC	
16574 IS	[TC]		CGCCGAGGGGGCGGGGCCGCCGAGGG	
16647 I		A	CAATCACAGCTCACTGCAGCCTCAACCTCTT	
16647 P	C	A	ATGACGTGGCAGACCGGGCTCAGGTGATY	
16647 P	A	A	CGCGCCGAGGAGGGCTCAGGTGATCY	
16647 T	C	A	GGAGGATCACCTGAGCCCGAGAGGTTGAGGCTGCAGTGAGCTGTGATTGCA	
16647 T	A	A	GGAGGATCACCTGAGCCCTAGAGGTTGAGGCTGCAGTGAGCTGTGATTGCA	
			CTCTGTCACCCAGACTAGATTGTAGTGGTGCAATCACAGCTCACTGCAGCCTCAACCTCT[CA]GGGCTCAGGTGATCCTCCAACCTCAACCTCCTGAGTAGC	
16647 IS	[CA]		TAGGACCACAGGCATGCATGT	
16676 I		A	AGTGCTGATCAGAGGTATTATTGACAAGCACCACAGACTT	
16676 P	G	A	ATGACGTGGCAGACGAGTCAGAGACTTGGCTY	
16676 P	A	A	CGCGCCGAGGAAGTCAGAGACTTGGCTY	
16676 T	G	A	AGAAAGCCAAGTCTCTGACTCAGTCTGTGGTGCTTGTCAATAATACCTCTGATCAGCACTTT	
16676 T	A	A	AGAAAGCCAAGTCTCTGACTTAGTCTGTGGTGCTTGTCAATAATACCTCTGATCAGCACTTT	
			TAATCATAGTCAGAGGAGCAAAGTGCTGATCAGAGGTATTATTGACAAGCACCACAGACT[GA]AGTCAGAGACTTGGCTTTCTTTTTTAGGATAATCACAGCC	
16676 IS	[GA]		CTGTCCCTATCATCACACCC	
16734 I		A	CTTCTTGCAGCTTGTCACTTCCTGGGTAACTTCAGTAT	
16734 P	G	A	ATGACGTGGCAGACGAAGAGTGACTGCGGAY	
16734 P	C	A	CGCGCCGAGGCAAGAGTGACTGCGGAY	
16734 T	G	A	GGGCTCCGCAGTCACTCTTCTACTGAAGTTACCCAGGAAGTGACAAGCTGCAAGAAGAT	
16734 T	C	A	GGGCTCCGCAGTCACTCTTGTACTGAAGTTACCCAGGAAGTGACAAGCTGCAAGAAGAT	
			GTGTGCCGGCTTCTGTGCAGCATCTTCTTGCAGCTTGTCACTTCCTGGGTAACTTCAGTA[GC]AAGAGTGACTGCGGAGCCCCAGATGTGTGCTAGATTCT	
16734 IS	[GC]		TTGAATTTGTTATATAGCTTAA	
16742 I		A	AGGCAGCTGCAAAGGGGACCCCA	
16742 P	C	A	ATGACGTGGCAGACCGTGAGGGGCAGGY	
16742 P	T	A	CGCGCCGAGGTGTGAGGGGCAGGY	
16742 T	C	A	CCTCCCTGCCCCTCACGGGGGTCCCCTTTGCAGCTGCCTGG	
16742 T	T	A	CCTCCCTGCCCCTCACAGGGGTCCCCTTTGCAGCTGCCTGG	
			GACTTCCCAGCTGGGCCTGGTGTGTTTGGGAGGCTCCCAGGCAGCTGCAAAGGGGACCCC[CT]GTGAGGGGCAGGGAGGCCTCGGCCCCAGGACGGGT	
16742 IS	[CT]		GTGTGCTGCCCGCAGGTACTTCTGT	
16796 I		A	CCTGCAGGGCAGTGGTCCGGCT	
16796 P	G	A	ATGACGTGGCAGACGCGGGAAGACCTCTTY	
16796 P	A	A	CGCGCCGAGGACGGGAAGACCTCTTCY	
16796 T	G	A	TCTTGAAGAGGTCTTCCCGCGCCGGACCACTGCCCTGCAGGCA	
16796 T	A	A	TCTTGAAGAGGTCTTCCCGTGCCGGACCACTGCCCTGCAGGCA	
			GACCACGTCCTGCTATCCTCCCTTCCTCCCGTTCCAGTGCCTGCAGGGCAGTGGTCCGGC[GA]CGGGAAGACCTCTTCAAGAACAAGGATCACTTCCAGTT	
16796 IS	[GA]		CACCAACCTCTTCCTGTGCGGG	NOD1

FIGURE 129E



CSF1R

FIGURE 129E

17431	P	G	S	ATGACGTGGCAGACCGTTAATAAATCAAGTCTCAGGY	
17431	P	A	S	CGCGCCGAGGTGTTAATAAATCAAGTCTCAGGCY	
17431	T	G	S	AGCAGCCTGAGACTTGATTTATTAACGATGAGATTTTACAGGCAAGACACTATTGACAAATGGCAGCAAT	
17431	T	A	S	AGCAGCCTGAGACTTGATTTATTAACAATGAGATTTTACAGGCAAGACACTATTGACAAATGGCAGCAAT	
17431	IS	[GA]		GCATCTGTATCTTAACTGTAATAACTACATATTGAGCAGCCTGAGACTTGATTTATTAAC[GA]ATGAGATTTTACAGGCAAGACACTATTGACAAATGGCAGCA ATTTTCGGCACCCCAGATC	
17446	I		A	CCATGTCAGAGCTATTGTCCATCATGGGTTTCCTCTACC	
17446	P	T	A	CGCGCCGAGGTTAAAGCTAAAGCATCACAGY	
17446	P	G	A	ATGACGTGGCAGACGTAAAGCTAAAGCATCACAGY	
17446	T	T	A	TCTGCTGTGATGCTTTAGCTTTAAGTAGAGGAAACCCATGATGGACAATAGCTCTGACATGGAC	
17446	T	G	A	TCTGCTGTGATGCTTTAGCTTTACGTAGAGGAAACCCATGATGGACAATAGCTCTGACATGGAC	
17448	IS	[TG]		CCATTCAATACAGGAGGGTAGTCCATGTCAGAGCTATTGTCCATCATGGGTTTCCTCTAC[TG]TAAAGCTAAAGCATCACAGCAGATATTGCCATGAGCCTT GAACTTATCTGAGCATCTCTT	
17463	I		A	TGGCGTTTTCTGGGGTATCCAGGTTCTCCTT	
17463	P	A	A	CGCGCCGAGGAACTCCCTCACTTCAACTY	
17463	P	G	A	ATGACGTGGCAGACGACTCCCTCACTTCAACTY	
17463	T	A	A	AGGGAGTTGAAGTGAGGGAGTTAGGAGAACCTGGATACCCCAGAAAACGCCAGC	
17463	T	G	A	AGGGAGTTGAAGTGAGGGAGTCAGGAGAACCTGGATACCCCAGAAAACGCCAGC	
17463	IS	[AG]		CTGGGCTGCCAGGGTGGGCTACATTGGAGCTGGCGTTTTCTGGGGTATCCAGGTTCTCCT[AG]ACTCCCTCACTTCAACTCCCTTGTTTTGCTCTAATCTTC CTCCCTGTCCCGTCACACCTT	
17468	I		A	TGACCCTGGGCAAAATTGAATCTAAGTTTTCTAGGATTTCTCTCCT	
17468	P	C	A	ATGACGTGGCAGACCAACTCTTTGGGATTCTGAY	
17468	P	A	A	CGCGCCGAGGAAACTCTTTGGGATTCTGACY	
17468	T	C	A	TCATGTCAGAATCCCAAAGAGTTGGGAGAGAAATCCTAGAAAACTTAGATTCAATTTTGCCCAGGGTCACC	
17468	T	A	A	TCATGTCAGAATCCCAAAGAGTTTGGAGAGAAATCCTAGAAAACTTAGATTCAATTTTGCCCAGGGTCACC	
17468	IS	[CA]		TGAGATTTTCAAAGGTGACCCTGGGCAAAATTGAATCTAAGTTTTCTAGGATTTCTCTCC[CA]AACTCTTTGGGATTCTGACATGACAGTGCAATTGCTTTAG TCCAAAAATGTCCTGGTAAG	
17528	I		S	GTCGAGAAAAGTGATAGTTATTTGCTCAAGCCACAAAACTGAACAAAAATGT	
17528	P	T	S	CGCGCCGAGGACATCTATATATGCTATGGCAGY	
17528	P	C	S	ATGACGTGGCAGACGCATCTATATATGCTATGGCAY	
17528	T	T	S	TTCTCTGCCATAGCATATATAGATGTCATTTTTGTTCAGTTTTGTGGCTTGAGCAAATAACTATCACTTTTCTCGACAG	
17528	T	C	S	TTCTCTGCCATAGCATATATAGATGCCATTTTTGTTCAGTTTTGTGGCTTGAGCAAATAACTATCACTTTTCTCGACAG	
17528	IS	[TC]		AATTTCATAGGATCAGTCCCCATATTTTCTTTAACTTCTCTGCCATAGCATATATAGATG[TC]CATTTTTGTTCAGTTTTGTGGCTTGAGCAAATAACTATCACT TTTCTCGACAGTATTGAG	
17530	I		A	GTGGGGCTCCTCCTTCTGTTTCCCAGACA	
17530	P	T	A	CGCGCCGAGGTGAGAGCCGCGCY	
17530	P	C	A	ATGACGTGGCAGACCGAGAGCCGCGCY	
17530	T	T	A	GCCGGCGCGGCTCTCAGTCTGGGAAACAGAAGGAGGAGCCCCACTG	
17530	T	C	A	GCCGGCGCGGCTCTCGGTCTGGGAAACAGAAGGAGGAGCCCCACTG	
17530	IS	[TC]		CGGGCGGGGCGAGGCCCTGGACGGCGGCGGCAGTGGGGCTCCTCCTTCTGTTTCCCAGAC[TC]GAGAGCCGCGCCGGCACCATGTCAGCTTACCCTAAA AGCTACAATCCGTTCGACGACGAC	
17533	I		A	CAGGACTCCTTCCACAAGCCCCGGAAT	
17533	P	G	A	ATGACGTGGCAGACGGACCTGCTGCCTY	
17533	P	C	A	CGCGCCGAGGCGACCTGCTGCCTY	
17533	T	G	A	AGACAGGCAGCAGGTCCTTCCGGGGCTTGTGGAAGGAGTCCTGGC	
17533	T	C	A	AGACAGGCAGCAGGTCGTTCCGGGGCTTGTGGAAGGAGTCCTGGC	
17533	IS	[GC]		GAGCAGAATCTGGCCCCCCTGAAAATGCATAAGCCAGGACTCCTTCCACAAGCCCCGGAA[GC]GACCTGCTGCCTGTCTGCCTCTGTGCTGGGCTCTGGG GACACAGAGATGAGCAGGACACT	
17555	I		A	CTGGTCAATCAATGCAAAGTAGTGGGAATTGGCCTCT	
17555	P	A	A	CGCGCCGAGGATCTGGCATCACCCAY	
17555	P	G	A	ATGACGTGGCAGACGTCTGGCATCACCCAY	
17555	T	A	A	AGGCTGGGTGATGCCAGATGAGGCCAATTCCCACTACTTTGCATTGATTGACCAGCT	
17555	T	G	A	AGGCTGGGTGATGCCAGACGAGGCCAATTCCCACTACTTTGCATTGATTGACCAGCT	
17555	IS	[AG]		CAGCCACTGGTGTCCTTCGATGAGCTGGTCAATCAATGCAAAGTAGTGGGAATTGGCCTC[AG]TCTGGCATCACCCAGCCTCCTGTCGCAATCTCCAGCTG CCCGTTTCCCACCAGCCTATAG	
17627	I		S	CGTACTCACCCAGGCTAGACCCTCCGTACC	
17627	P	A	S	CGCGCCGAGGTCACCCAGGCTAGACY	
17627	P	T	S	ATGACGTGGCAGACACACCCAGGCTAGACY	
17627	T	A	S	GAGGGTCTAGCCTGGGTGAGTACGGAGGGTCTAGCCTGGGTGAGTACGGA	
17627	T	T	S	GAGGGTCTAGCCTGGGTGTGTACGGAGGGTCTAGCCTGGGTGAGTACGGA	
17627	IS	[AT]		CTAGCCTGGGTGTGTACGGAGGGTCTAGCCTGGGTGAGTACGGAGGGTCTAGCCTGGGTG[AT]GTACGGAGGGTCTAGCCTGGGTGAGTACGGAGGGTC TAGCCTGGGTGAGTATGGAGGGTC	FSTL3
17629	I		A	ACCTTGTAGGAGCTGGTGGTGTCTGTCGAA	
17629	P	T	A	CGCGCCGAGGTTGACTGAGTGCTGGAY	
17629	P	C	A	ATGACGTGGCAGACCTGACTGAGTGCTGGAY	
17629	T	T	A	CAGCTCCAGCACTCAGTCAATCGACAGACACCACCAGCTCCTACAAGGTTC	
17629	T	C	A	CAGCTCCAGCACTCAGTCAGTCGACAGACACCACCAGCTCCTACAAGGTTC	
17629	IS	[TC]		ATAAGGTCCTCTTCTCGTTGACATTGTGTGAACCTTGTAGGAGCTGGTGGTGTCTGTCGA[TC]TGACTGAGTGCTGGAGCTGGCAGCCCTGTGCAGGCTGC CACCTTTGCCCCTTTACTGTGC	
17657	I		A	CACAAAGAGACTTAATGGCAGAAGCCAGACTAGACCCA	
17657	P	C	A	ATGACGTGGCAGACCTCATCAGCAATGTGGCY	
17657	P	T	A	CGCGCCGAGGTTCATCAGCAATGTGGCY	
17657	T	C	A	GGGAGCCACATTGCTGATGAGGGGTCTAGTCTGGCTTCTGCCATTAAGTCTCTTTGTGAC	
17657	T	T	A	GGGAGCCACATTGCTGATGAAGGGTCTAGTCTGGCTTCTGCCATTAAGTCTCTTTGTGAC	
17657	IS	[CT]		TTGGTAAGTCACTTGCCCAAGGTCACAAAGAGACTTAATGGCAGAAGCCAGACTAGACCC[CT]TCATCAGCAATGTGGCTCCCCTAGCTTGGGGTCTTGGA AGACCCATGTGGAGGAAAGGAC	
17708	I		S	GGTCTCTCCTCCCAGCCCTCTTCCCAGT	
17708	P	T	S	CGCGCCGAGGAAGGAGGAGGACCTACTY	
17708	P	C	S	ATGACGTGGCAGACGAGGAGGAGGACCTACTY	
17708	T	T	S	AGCAAGTAGGTCCTCCTCCTTCTGGGAAGAGGGCTGGGAGGAGAGACCAG	
17708	T	C	S	AGCAAGTAGGTCCTCCTCCTCCTGGGAAGAGGGCTGGGAGGAGAGACCAG	
17708	IS	[TC]		AACTTAAGGGTCTGGCTTCTCGCCATCATCCTAGGTAGGCAGCAAGTAGGTCCTCCTCC[TC]CTGGGAAGAGGGCTGGGAGGAGAGACCAGGCAGTGAT CTGATAGTGACCAAGACCTCCGG	
17716	I		A	AGAGCGGCCGGAAAGACTCTATAACCCAGTTT	
17716	P	G	A	ATGACGTGGCAGACGTGGGAAGAACTCCAAGY	
17716	P	C	A	CGCGCCGAGGCTGGGAAGAACTCCAAGY	
17716	T	G	A	CCAGCTTGGAGTTCTTCCCACAACTGGGTTATAGAGTCTTTCCGGCCGCTCTCC	
17716	T	C	A	CCAGCTTGGAGTTCTTCCCAGAACTGGGTTATAGAGTCTTTCCGGCCGCTCTCC	
17716	IS	[GC]		TGCTTTACTTGGGATGAGGCAGGTGGCGGAGAGCGGCCGGAAAGACTCTATAACCCAGTT[GC]TGGGAAGAACTCCAAGCTGGGAGTCAGTCACACTGAC TCTACCACTTACTAGCTGTGTAA	
17720	I		S	CTTCTGCCTCCCTCCGACAACCTTTTTCCCT	
17720	P	T	S	CGCGCCGAGGATCCGTAGCCTTAAATTCCY	
17720	P	C	S	ATGACGTGGCAGACGTCCGTAGCCTTAAATTCCY	
17720	T	T	S	CTCGGGAATTTAAGGCTACGGATGGGAAAAAGGTTGTCGGAGGGAGGCAGAAGGG	
17720	T	C	S	CTCGGGAATTTAAGGCTACGGACGGGAAAAAGGTTGTCGGAGGGAGGCAGAAGGG	
17720	IS	[TC]		CTCATCCCTCCAATCAACACTACGATCCGCCCGGGCAGCTCGGGAATTTAAGGCTACGGA[TC]GGGAAAAAGGTTGTCGGAGGGAGGCAGAAGGGACTGG GTTAAATTAAGCAGGAGGGGCAA	
17732	I		A	CGTGGCCCCACATAGCCTGCCCT	
17732	P	A	A	CGCGCCGAGGAACATCTCTTGCCTGCY	

Applicant's Docket No. 2006P00749WOUS

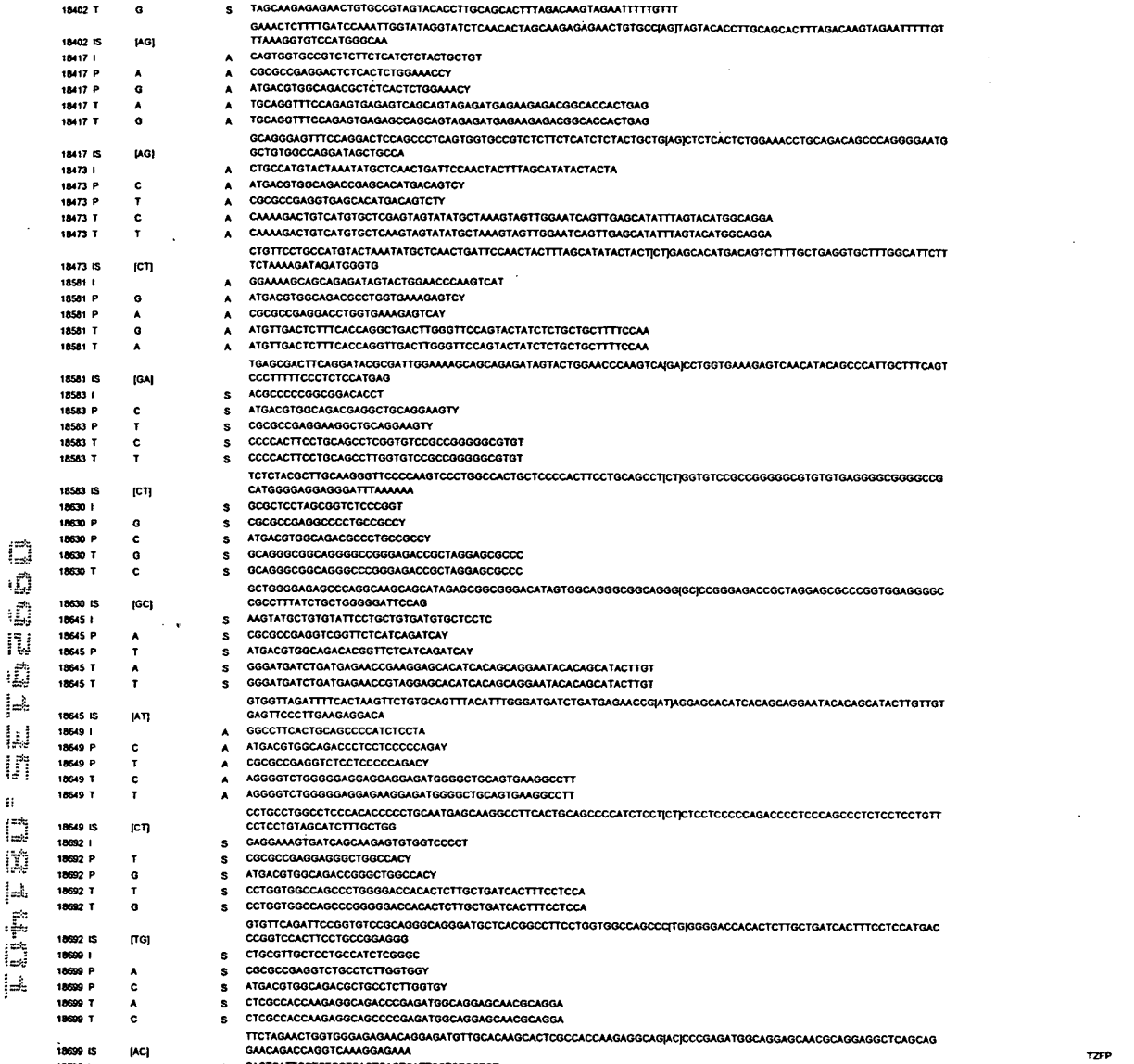
FIGURE 129E

17732	P	G	A	ATGACGTGGCAGACGACATCTCTTGCCTGCY
17732	T	A	A	GACTGCAGGCAAGAGATGTTGGGCAGGCTATGTGGGGCCACGTG
17732	T	G	A	GACTGCAGGCAAGAGATGTCGGGCAGGCTATGTGGGGCCACGTG
17732	IS	[AG]		GGCACACAGGGTGGAGAGGAGTCCTGTTGCCTCTCTCACGTGGCCCCACATAGCCTGCCC[AG]ACATCTCTTGCCTGCAGTCTGCAGCCCTCTCACCCGT CCCCTCTCCTCTGCAGAACTATG
17735	I		S	TGCTCTGTCCACCGCTGCTTCCTAAAACCT
17735	P	C	S	ATGACGTGGCAGACGCAAGTTGATCTGAAATTTGAY
17735	P	T	S	CGCGCCGAGGACAAGTTGATCTGAAATTTGAACY
17735	T	C	S	CCAGGTTCAAATTTCAGATCAACTTGCGGTTTTAGGAAGCAGCGGTGGACAGAGCACT
17735	T	T	S	CCAGGTTCAAATTTCAGATCAACTTGTGGTTTTAGGAAGCAGCGGTGGACAGAGCACT
17735	IS	[CT]		TTAGACAACAGGAAGGACTTGGATTTGAGAAGCACCAGGTTCAAATTTCAGATCAACTTG[CT]GGTTTTAGGAAGCAGCGGTGGACAGAGCACTGAGCCTG CCTAGGAGGTATGGGCTGTGGT
17738	I		A	TCACTCAAGGGCCCTGCAGCTCTCACA
17738	P	C	A	ATGACGTGGCAGACCATGATTCCAAATGCATCTCY
17738	P	T	A	CGCGCCGAGGTATGATTCCAAATGCATCTCCY
17738	T	C	A	GGTAGGAGATGCATTTGGAATCATGGTGAGAGCTGCAGGGCCCTTGAGTGAGT
17738	T	T	A	GGTAGGAGATGCATTTGGAATCATAGTGAGAGCTGCAGGGCCCTTGAGTGAGT
17738	IS	[CT]		CCTGATTTCAACTGATCAGAACTGCTGAAACCACTCACTCAAGGGCCCTGCAGCTCTCAC[CT]ATGATTCCAAATGCATCTCCTACCCTCCCCCCAGGAACT GCCCTGACCAGGAGACATGCA
17746	I		A	ACTAATTCTTTGGCTCTTTCTTTCTTCATGTAACACACAGTCA
17746	P	T	A	CGCGCCGAGGTCAAGCTTCTCAGCTCTY
17746	P	C	A	ATGACGTGGCAGACCCAAGCTTCTCAGCTCY
17746	T	T	A	TTAGAGAGCTGAGAAGCTTGAGACTGTGTGTTACATGAAGAAAGAAAGAGCCAAAGAATTAGTGG
17746	T	C	A	TTAGAGAGCTGAGAAGCTTGGGACTGTGTGTTACATGAAGAAAGAAAGAGCCAAAGAATTAGTGG
17746	IS	[TC]		CTCTCATCTTAATTTTCCACTAATTCTTTGGCTCTTTCTTTCTTCATGTAACACACAGTC[TC]CAAGCTTCTCAGCTCTCTAAGTCTGGATCATCTTGCTATTCA GGGAACAATAACAAGAAA
17748	I		A	CACCTCATTAGTGCAGTTACTCCTGGGACCAAGACT
17748	P	C	A	CGCGCCGAGGCAGGAAATCTAACCAATAAGCY
17748	P	G	A	ATGACGTGGCAGACGAGGAAATCTAACCAATAAGCAY
17748	T	C	A	CCATTGCTTATTGGTTAGATTTCCTGGTCTTGGTCCCAGGAGTAACTGCACTAATGAGGTGAC
17748	T	G	A	CCATTGCTTATTGGTTAGATTTCCTCGTCTTGGTCCCAGGAGTAACTGCACTAATGAGGTGAC
17748	IS	[CG]		TCACTCTGCCCCTCTGGGTGCCTGTCACCTCATTAGTGCAGTTACTCCTGGGACCAAGAC[CG]AGGAAATCTAACCAATAAGCAATGGTAACAGTGACTCAG TGCTCAGTCCGCCCTCAGTGG
17776	I		A	GACCTTTCTCCCTTTTCCTAATCCTATCTGCAGCTAGGAT
17776	P	G	A	ATGACGTGGCAGACGCTAGGACGAGTCCTGY
17776	P	C	A	CGCGCCGAGGCCTAGGACGAGTCCTGY
17776	T	G	A	GGGCCAGGACTCGTCCTAGCTCCTAGCTGCAGATAGGATTAGGAAAAGGGAGAAAGGTCAC
17776	T	C	A	GGGCCAGGACTCGTCCTAGGTCCTAGCTGCAGATAGGATTAGGAAAAGGGAGAAAGGTCAC
17776	IS	[GC]		AATGGTTGCCAGCAGGTCTGTGACCTTTCTCCCTTTTCCTAATCCTATCTGCAGCTAGGA[GC]CTAGGACGAGTCCTGGCCCCAGGCCCTGCTGGCACTGA GCTTTGGCCCAGCCTAGAAGCT
17803	I		S	AGGTAAAACCAGCATTGATATCTAGGAAGGGGAGAATATGTAAGCATAA
17803	P	A	S	CGCGCCGAGGTACATTTCATTCAAATAGAGTTCTCY
17803	P	G	S	ATGACGTGGCAGACCACATTTCATTCAAATAGAGTTCTY
17803	T	A	S	GAACGAGAACTCTATTTGAATGAAATGTATATGCTTACATATTCTCCCCTTCCTAGATATCAATGCTGGTTTTACCTGC
17803	T	G	S	GAACGAGAACTCTATTTGAATGAAATGTGTATGCTTACATATTCTCCCCTTCCTAGATATCAATGCTGGTTTTACCTGC
17803	IS	[AG]		GTAGTAAGAAGTGAGTGTTAAAGTAAGATTAGGAACGAGAACTCTATTTGAATGAAATGT[AG]TATGCTTACATATTCTCCCCTTCCTAGATATCAATGCTGGT TTTACCTGCTTTATCACAG
17843	I		A	CTGTTGACCAGGCTGGTCTTGAACTCCTGACC
17843	P	G	A	ATGACGTGGCAGACGTCAGGTGATCTACCCGY
17843	P	T	A	CGCGCCGAGGTTCAGGTGATCTACCCGY
17843	T	G	A	AAGGCGGGTAGATCACCTGACGTCAGGAGTTCAAGACCAGCCTGGTCAACAGGG
17843	T	T	A	AAGGCGGGTAGATCACCTGAAGTCAGGAGTTCAAGACCAGCCTGGTCAACAGGG
17843	IS	[GT]		TGTATATTTAGTAGAGGTGGGGTTTTGCCCTGTTGACCAGGCTGGTCTTGAACTCCTGAC[GT]TCAGGTGATCTACCCGCCTTAGCCTCCCAAAGTTCTGGG ATTACAGGCATGAGCCACTAC
17850	I		A	CCCTGGACAGGGCATAGATTTGCTGCCTTTGC
17850	P	A	A	CGCGCCGAGGAGTGGGGACTATGGAGY
17850	P	T	A	ATGACGTGGCAGACTGTGGGGACTATGGAGY
17850	T	A	A	AGGCCTCCATAGTCCCCACTCAAAGGCAGCAAATCTATGCCCTGTCCAGGGAA
17850	T	T	A	AGGCCTCCATAGTCCCCACACAAAGGCAGCAAATCTATGCCCTGTCCAGGGAA
17850	IS	[AT]		ATCTCTTCCTGGAGGGCTGCACAGTGTTTCCCTGGACAGGGCATAGATTTGCTGCCTTTG[AT]GTGGGGACTATGGAGGCCTAGCCCGGCCAAGAAGGAG GGGAATATGTATTTAAGTTAAAA
17870	I		S	GGAGCCTGAGTGTATTGATGCTACTGATTGCAAAGACTA
17870	P	A	S	CGCGCCGAGGTTGAACCAGTTCCCTTGY
17870	P	G	S	ATGACGTGGCAGACCTGAACCAGTTCCCTTGY
17870	T	A	S	AAAGCAAGGGAACTGGTTCAAAGTCTTTGCAATCAGTAGCATCAATACACTCAGGCTCCCA
17870	T	G	S	AAAGCAAGGGAACTGGTTCAGAGTCTTTGCAATCAGTAGCATCAATACACTCAGGCTCCCA
17870	IS	[AG]		CTCCAAGTATTGTGAAAGCTGGAAGTCAGGCAAAAGGCTAAAAGCAAGGGAACTGGTTCA[AG]AGTCTTTGCAATCAGTAGCATCAATACACTCAGGCTCCC ACATTTACACGATGCAGTGGA
17886	I		S	CAGGTGCACTTACTTTGCAGAGCTGTGGATGTA
17886	P	A	S	CGCGCCGAGGTGTGTAGTAGTTGAAAGGCY
17886	P	G	S	ATGACGTGGCAGACCGTGTAGTAGTTGAAAGGCY
17886	T	A	S	GTGTGCCTTTCAACTACTACACAACATCCACAGCTCTGCAAAGTAAGTGCACCTGTT
17886	T	G	S	GTGTGCCTTTCAACTACTACACGACATCCACAGCTCTGCAAAGTAAGTGCACCTGTT
17886	IS	[AG]		CACATTGGCAAGTCTCTCTGAGGATTACATAGTATCCCGTGTGCCTTTCAACTACTACAC[AG]ACATCCACAGCTCTGCAAAGTAAGTGCACCTGTTTATTTT CTAGAAACAAGGGATCAAAA
17933	I		A	CTGAGCCTGGGATTCAGGGCAGTCTCTTT
17933	P	A	A	CGCGCCGAGGATCTCCACTCTGACCACY
17933	P	G	A	ATGACGTGGCAGACGTCTCCACTCTGACCAY
17933	T	A	A	CTGAGTGGTCAGAGTGGAGATAAGAGACTGCCCTGAATCCCAGGCTCAGGG
17933	T	G	A	CTGAGTGGTCAGAGTGGAGACAAGAGACTGCCCTGAATCCCAGGCTCAGGG
17933	IS	[AG]		CTGTGACCATGAGCAGGTATGATGGCTGCCCCCTGAGCCTGGGATTCAGGGCAGTCTCTT[AG]TCTCCACTCTGACCACTCAGCATCTCCATCCCTTGCCT CTTAATTCTTGGACTCTCAGGG
17969	I		A	TGTGTCCCCACAGCCTCAGGCAGGC
17969	P	T	A	CGCGCCGAGGTGTGGCTCATCACACTY
17969	P	G	A	ATGACGTGGCAGACGGTGGCTCATCACACTY
17969	T	T	A	AGCCAGTGTGATGAGCCACACCTGCCTGAGGCTGTGGGGACACAAC
17969	T	G	A	AGCCAGTGTGATGAGCCACCCCTGCCTGAGGCTGTGGGGACACAAC
17969	IS	[TG]		AGCAACTTCAGAGCAGGAACTGGCTTTACCCACTGTTGTGTCCCCACAGCCTCAGGCAGG[TG]GTGGCTCATCACACTGGCTCAGTAACTATTTACTGGATA AATGAATCTTGGGCACTTAGA
17971	I		A	CAGTGCGGCCAACCCAGACACCCT
17971	P	C	A	CGCGCCGAGGCCTGCACCGCACAY
17971	P	G	A	ATGACGTGGCAGACGCTGCACCGCACY
17971	T	C	A	CTGGTGTGCGGTGCAGGGGGTGTCTGGGTTGGCCGCACTGGA
17971	T	G	A	CTGGTGTGCGGTGCAGCGGGTGTCTGGGTTGGCCGCACTGGA
17971	IS	[CG]		GCGGGGGCATGGGAAACGACGAAATCCAAGAGGCCTCCAGTGCGGCCAACCCAGACACCC[CG]CTGCACCGCACACCAGCCCGCCCGGACGGCAGTGGC CCGCGCTTACCTGGTGCGCTCGGG
17996	I		S	CAGTTGATGCCTTGCAGGGCATTCTTCAAAAGCT
17996	P	T	S	CGCGCCGAGGAGTGGCTTCATGGACAY
17996	P	C	S	ATGACGTGGCAGACGGTGGCTTCATGGACY

FIGURE 129E

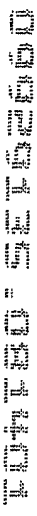
17996	T	T	S	GAGCTGTCCATGAAGCCACTGCTTTTGAAGAATGCCCTGCAAGGCATCAACTGGA	
17996	T	C	S	GAGCTGTCCATGAAGCCACCGCTTTTGAAGAATGCCCTGCAAGGCATCAACTGGA	
17996	IS	[TC]		TGAGCCAGGGGCACAGACAGGCTGTCTGCACAAGAGAGAATGAGCTGTCCATGAAGCCAC[TC]GCTTTTGAAGAATGCCCTGCAAGGCATCAACTGGAATG TGTTTATTACCAAACAAGACAG	
18001	I		S	CCCTCTCCATTCAGGGAAACCACTGTGCTTTA	
18001	P	G	S	ATGACGTGGCAGACCTTGTGCTGCCCCTY	
18001	P	A	S	CGCGCCGAGGTTTGTGCTGCCCCTY	
18001	T	G	S	AGGGAGGGGCAGCACAAGAAAGCACAGTGGTTTCCCTGAATGGAGAGGGGA	
18001	T	A	S	AGGGAGGGGCAGCACAAAAAAGCACAGTGGTTTCCCTGAATGGAGAGGGGA	
18001	IS	[GA]		TTTCCTAGTTTTCTGGCTGGCAGCGATTTTTGGACAGCAGTGTAGGGAGGGGCAGCACAA[GA]AAAGCACAGTGGTTTCCCTGAATGGAGAGGGGAGATAG AGTGGGCGCGCGAGAGAGCTAT	
18027	I		S	GTGCCCGGAGGAAGGGATGGGGT	
18027	P	C	S	ATGACGTGGCAGACGAGCACACGTGTATGTGY	
18027	P	T	S	CGCGCCGAGGAAGCACACGTGTATGTGY	
18027	T	C	S	GAGACACATACACGTGTGCTCCCCCATCCCTTCCTCCGGGCACCA	
18027	T	T	S	GAGACACATACACGTGTGCTTCCCCATCCCTTCCTCCGGGCACCA	
18027	IS	[CT]		AGCGAGTGGTCAGCAATCACTGTTTGCTGTGAGTGACAATGAGACACATACACGTGTGCT[CT]CCCCATCCCTTCCTCCGGGCACCATCTCTCTCCTGGGA CCTGCCTGTCTGCGGCACCCTG	
18029	I		S	GCCTGGCCAACATGATGAAACCCCATCTCTACTAAAAATACAAAAAATTAT	
18029	P	C	S	ATGACGTGGCAGACGCTGGGTGTGGTGGY	
18029	P	G	S	CGCGCCGAGGCCTGGGTGTGGTGGY	
18029	T	C	S	CGTGCCACCACACCCAGCTAATTTTTTGTATTTTTAGTAGAGATGGGGTTTCATCATGTTGGCCAGGCTG	
18029	T	G	S	CGTGCCACCACACCCAGGTAATTTTTTGTATTTTTAGTAGAGATGGGGTTTCATCATGTTGGCCAGGCTG	
18029	IS	[CG]		GATTCTCCTGCCTCAGCCTCCTGAATAGCTGGGATTATAGGAACGTGCCACCACACCCAG[CG]TAATTTTTTGTATTTTTAGTAGAGATGGGGTTTCATCATG TTGGCCAGGCTGGTCTCAAA	FLJ10713
18038	I		S	ACCTGTTCCCTACACTGCCCGTCCCT	
18038	P	C	S	ATGACGTGGCAGACGCTGTGGGTCTAACCTY	
18038	P	T	S	CGCGCCGAGGACTGTGGGTCTAACCTCY	
18038	T	C	S	GGCAGAGGTTAGACCCACAGCGGGACGGGCAGTGTAGGGAACAGGTGG	
18038	T	T	S	GGCAGAGGTTAGACCCACAGTGGGACGGGCAGTGTAGGGAACAGGTGG	
18038	IS	[CT]		GGGAAGCGGGGAGCGGGGAGCGGGGCCAGGGAGGGAGAGAGGCAGAGGTTAGACCCACAG[CT]GGGACGGGCAGTGTAGGGAACAGGTGGACACTCC CCTCTCTGATGAGTATTTCTTTATTC	
18080	I		S	TCTGAATTTTTATGGAGTACATTCCTCTAAGGACTAGGTAATTAGATTAAGAA	
18080	P	G	S	ATGACGTGGCAGACCAGATGGAGGCAAGCY	
18080	P	A	S	CGCGCCGAGGTAGATGGAGGCAAGCGY	
18080	T	G	S	GAAGCGCTTGCCTCCATCTGTCTTAATCTAATTACCTAGTCCTTAGAGGAATGTACTCCATAAAAATTCAGAGA	
18080	T	A	S	GAAGCGCTTGCCTCCATCTATCTTAATCTAATTACCTAGTCCTTAGAGGAATGTACTCCATAAAAATTCAGAGA	
18080	IS	[GA]		CATTACCCCTCCACTCAACCTGACATGGCCCTATGGGAATGGAAGCGCTTGCCTCCATCT[GA]TCTTAATCTAATTACCTAGTCCTTAGAGGAATGTACTCCA TAAAAATTCAGAGATGTTTA	
18084	I		S	GCTATTCTTGAACTAAAGGTCTACTATGTAGTCAATTATGGTGATGTTTTTAGA	
18084	P	A	S	CGCGCCGAGGTTTCTGAAGTCTGCTGTCY	
18084	P	G	S	ATGACGTGGCAGACCTTCTGAAGTCTGCTGTCY	
18084	T	A	S	TGGAGACAGCAGACTTCAGAAACTAAAAACATCACCATAATTGACTACATAGTAGACCTTTAGTTCAAGAATAGCTT	
18084	T	G	S	TGGAGACAGCAGACTTCAGAAGCTAAAAACATCACCATAATTGACTACATAGTAGACCTTTAGTTCAAGAATAGCTT	
18084	IS	[AG]		ATATTTTACAGTAGGGAGAAAATGCTTATCTCTCTATTTTGGAGACAGCAGACTTCAGAA[AG]CTAAAAACATCACCATAATTGACTACATAGTAGACCTTTAG TTCAAGAATAGCTTAAAGA	
18103	I		A	AGAGAAACACAAACTCTTGCACTGCCAAATAAATCCTAACGTCTAAA	
18103	P	C	A	ATGACGTGGCAGACCATCAGCAATCTCTTCAACAY	
18103	P	T	A	CGCGCCGAGGTATCAGCAATCTCTTCAACATAAY	
18103	T	C	A	ATGTTTATGTTGAAGAGATTGCTGATGTTAGACGTTAGGATTTATTTGGCAGTGCAAGAGTTTGTGTTTCTCTTT	
18103	T	T	A	ATGTTTATGTTGAAGAGATTGCTGATATTAGACGTTAGGATTTATTTGGCAGTGCAAGAGTTTGTGTTTCTCTTT	
18103	IS	[CT]		AGATCCTCAAAGAAAGAGAAACACAAACTCTTGCACTGCCAAATAAATCCTAACGTCTAA[CT]ATCAGCAATCTCTTCAACATAAACATGTAACATTCAGTAAA ACCCAGAGAGTGTCAAGAC	
18158	I		A	CAGGCCGGGCCCATCCCCTT	
18158	P	G	A	ATGACGTGGCAGACGAGGACAGTGCCCTGY	
18158	P	C	A	CGCGCCGAGGCAGGACAGTGCCCTY	
18158	T	G	A	GGCCCAGGGCACTGTCCTCAGGGGATGGGCCCGGCCTGGG	
18158	T	C	A	GGCCCAGGGCACTGTCCTGAGGGGATGGGCCCGGCCTGGG	
18158	IS	[GC]		CAGGCTCACCAGCCTGCTGGGGAGCAAGCCGCTGTGCTTCCCAGGCCGGGCCCATCCCCT[GC]AGGACAGTGCCCTGGGCCAGGCACCTGTTCACATGC AGGGCATCTGGGTCTAGCCTGCAG	
18168	I		S	CCGATGGCTTCGCTGTACCAGAGGTTCACA	
18168	P	G	S	ATGACGTGGCAGACCGGCAAGATCAACACCY	
18168	P	A	S	CGCGCCGAGGTGGCAAGATCAACACCTY	
18168	T	G	S	CTCGAGGTGTTGATCTTGCCGGTGAACCTCTGGTACAGCGAAGCCATCGGGC	
18168	T	A	S	CTCGAGGTGTTGATCTTGCCAGTGAACCTCTGGTACAGCGAAGCCATCGGGC	
18168	IS	[GA]		GCCCAGGAGGTGACTCGCCTCCGGGGGCGCGGGGAAGGACCTCGAGGTGTTGATCTTGCC[GA]GTGAACCTCTGGTACAGCGAAGCCATCGGGCACCGC GCTCCTGCTGGCTGTCTTTGGGGC	
18185	I		A	CATTCAGCTGGAGGCGGCGGCTA	
18185	P	T	A	CGCGCCGAGGTCCTGGTGCGCGY	
18185	P	C	A	ATGACGTGGCAGACCCCTGGTGCGCGY	
18185	T	T	A	TGGGCGCGCACCAGGAAGCCGCCGCCTCCAGCTGAATGCG	
18185	T	C	A	TGGGCGCGCACCAGGGAGCCGCCGCCTCCAGCTGAATGCG	
18185	IS	[TC]		CGTGCCCGCCCCTGCCCCACCCCGCGCCGGGACTCGCGCATTCAGCTGGAGGCGGCGGCT[TC]CCTGGTGCGCGCCCAGCCCTGGTGCCCTGCTCTGG CCCTCGCTCCGCACCACCGCCCCGC	
18245	I		S	TCTGCTCTGGCTCCTGGGAGCCCT	
18245	P	C	S	ATGACGTGGCAGACGGTGCGGTGCCTY	
18245	P	T	S	CGCGCCGAGGAGTGCGGTGCCTCY	
18245	T	C	S	CTTGGAGGCACCGCACCGGGCTCCCAGGAGCCAGAGCAGAAG	
18245	T	T	S	CTTGGAGGCACCGCACTGGGCTCCCAGGAGCCAGAGCAGAAG	
18245	IS	[CT]		GGTGCTTGGGAGCATCTTTCAGCAGAGGGTCCAGGTGTTCTGTGCTTGGAGGCACCGCAC[CT]GGGCTCCCAGGAGCCAGAGCAGAAGAGGCTGAGCGA GGGGTCCAGGCTGGCATGGACCTC	SLC27A4
18375	I		A	AGGCTGACCATGTAGCTCAGCATGTCTTCATCTTT	
18375	P	C	A	CGCGCCGAGGCGTCAGTGATCAGGGCY	
18375	P	G	A	ATGACGTGGCAGACGGTCAGTGATCAGGGCY	
18375	T	C	A	GTCAGCCCTGATCACTGACGAAGATGAAGACATGCTGAGCTACATGGTCAGCCTGG	
18375	T	G	A	GTCAGCCCTGATCACTGACCAAGATGAAGACATGCTGAGCTACATGGTCAGCCTGG	
18375	IS	[CG]		GCCTCAGTCTTCCTGGCCTCACCTCCAGGCTGACCATGTAGCTCAGCATGTCTTCATCTT[CG]GTCAGTGATCAGGGCTGACATCTGGGGGTGGTTTGCAA TCTGATTTAGGTCAAAGAGACT	
18384	I		A	GGTGTGGTGGGACACACCTGCAGCA	
18384	P	C	A	ATGACGTGGCAGACCCCAGCTACTCAGGAGY	
18384	P	T	A	CGCGCCGAGGTCCAGCTACTCAGGAGY	
18384	T	C	A	CAGCCTCCTGAGTAGCTGGGGCTGCAGGTGTGTCCCACCACACCTG	
18384	T	T	A	CAGCCTCCTGAGTAGCTGGAGCTGCAGGTGTGTCCCACCACACCTG	
18384	IS	[CT]		AGACCTCATCTCTACAAAAAATTTAAAAATTAGCCAGGTGTGGTGGGACACACCTGCAGC[CT]CCAGCTACTCAGGAGGCTGAGGAGGTAGGATCACTTGA GCCCAGGAGGATGAGGCTGCAG	
18402	I		S	ACAAAAATTCTACTTGTCTAAAGTGCTGCAAGGTGTACTAA	
18402	P	A	S	CGCGCCGAGGTGGCACAGTTCTCTCTTY	
18402	P	G	S	ATGACGTGGCAGACCGGCACAGTTCTCTCTY	
18402	T	A	S	TAGCAAGAGAGAACTGTGCCATAGTACACCTTGCAGCACTTTAGACAAGTAGAATTTTTGTTT	

FIGURE 129E



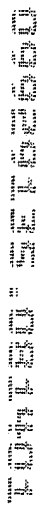
TZFP

FIGURE 129E



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                    AGTCCATCATGTCCCTCCACTGGCCTGCCACGAGGCTCTCCTGCAGAGGGTGAAAGGAGC[GA]GGCTGAGCGGCTGGCCTGGGGAGAGGAGTACAGAGT
18774 IS  [GA]      GGCAACAGGCCCATAACTGGGGTA
18794 I       A     GCTTTTAGGGTTGGGAGGGCAGAGGAGAAACC
18794 P   T   A     CGCGCCGAGGTGCAGGTGGCACTGY
18794 P   G   A     ATGACGTGGCAGACGGCAGGTGGCACTY
18794 T   T   A     TCCGCAGTGCCACCTGCAGTTTCTCCTCTGCCCTCCCAACCCTAAAAGCTG
18794 T   G   A     TCCGCAGTGCCACCTGCCGTTTCTCCTCTGCCCTCCCAACCCTAAAAGCTG
                    CCTTTATTTTGGATGAGCCCCGTCTTCCAGCTTTTAGGGTTGGGAGGGCAGAGGAGAAAC[TG]GCAGGTGGCACTGCGGATATTTTTACACAGGATAATGT
18794 IS  [TG]      GACCTGCCCAGCCTGCACCTGC
18796 I       A     GGCTGAATTTGGTTTCCATGACCCCCGACTA
18796 P   C   A     ATGACGTGGCAGACCTCCCTCCGCTGGY
18796 P   T   A     CGCGCCGAGGTTCCCTCCGCTGGY
18796 T   C   A     AGCACCAGCGGAGGGAGAGTCGGGGGTCATGGAAACCAAATTCAGCCTT
18796 T   T   A     AGCACCAGCGGAGGGAAAGTCGGGGGTCATGGAAACCAAATTCAGCCTT
                    CTAATTTACACAGGGTCCACGTTGTAGGAAGGCTGAATTTGGTTTCCATGACCCCCGACT[CT]TCCCTCCGCTGGTGCTCAGCTCTCCCCACACCTGCCAG
18796 IS  [CT]      CTTTATTTGGATTTCTGTCAGT
18880 I       S     CTTCCCTGGGCTCGCTCTATATCACCCA
18880 P   G   S     ATGACGTGGCAGACCTCCTCTGCCCACACY
18880 P   A   S     CGCGCCGAGGTTCCTCTGCCCACACY
18880 T   G   S     TGCTGTGTGGGCAGAGGAGGGGTGATATGAGAGCGAGCCCAGGGAAGGA
18880 T   A   S     TGCTGTGTGGGCAGAGGAAGGGTGATATGAGAGCGAGCCCAGGGAAGGA
                    GGCTCAGGAGAGCCTTCAGGCCCTTGAGGCCCCATGGGCAGTGCTGTGTGGGCAGAGGA[GA]GGGTGATATGAGAGCGAGCCCAGGGAAGGACCTCTG
18880 IS  [GA]      GGCAAAAAGTTCCCAGGCCCTAAC                                                                          KIAA1036
18897 I       S     CGCCCTGCTGGATAGAGAGCAAGGGAGAAA
18897 P   G   S     ATGACGTGGCAGACCTTCAGACCTGCCCTY
18897 P   A   S     CGCGCCGAGGTTTCAGACCTGCCCTTY
18897 T   G   S     ATGGAAGGGCAGGTCTGAAGTTCTCCCTTGCTCTCTATCCAGCAGGGCGCC
18897 T   A   S     ATGGAAGGGCAGGTCTGAAATTCTCCCTTGCTCTCTATCCAGCAGGGCGCC
                    CTAGTGCGTAACAGTCTAGGGAGAGACTCCTGTGGTGGTGCATGGAAGGGCAGGTCTGAA[GA]TTCTCCCTTGCTCTCTATCCAGCAGGGCGCCGGTCTG
18897 IS  [GA]      GGTACCAATGCCTCGTTGGCCCA
18925 I       S     CAGCTTGTTCTGGGAGCTCAGGCGTGA
18925 P   G   S     ATGACGTGGCAGACCTCCTTCCTCTCCCTGY
18925 P   A   S     CGCGCCGAGGTTCCTTCCTCTCCCTGY
18925 T   G   S     GGCTCAGGGAGAGGAAGGAGCACGCCTGAGCTCCCAGAACAAGCTGCT
18925 T   A   S     GGCTCAGGGAGAGGAAGGAACACGCCTGAGCTCCCAGAACAAGCTGCT
                    GCTCAGCCACATCAGCACCCACATTTGACAAAACAACCTGAGGCTCAGGGAGAGGAAGGA[GA]CACGCCTGAGCTCCCAGAACAAGCTGCTGGTGGAGCC
18925 IS  [GA]      CAGCAGGAACTCCAGGGCTCAGA
18942 I       A     GCTACTTCCTTCCATTTATCCCCAGGCCTCCTAA
18942 P   C   A     ATGACGTGGCAGACCCAATAACTCCCATTTGCTY
18942 P   T   A     CGCGCCGAGGTCAATAACTCCCATTTGCTY
18942 T   C   A     GTGCAGCAAATGGGAGTTATTGGTAGGAGGCCTGGGGATAAATGGAAGGAAGTAGCCA
18942 T   T   A     GTGCAGCAAATGGGAGTTATTGATAGGAGGCCTGGGGATAAATGGAAGGAAGTAGCCA
                    GAGGGAGGAGAGGAGAGAAATTCCCTGGCTACTTCCTTCCATTTATCCCCAGGCCTCCTA[CT]CAATAACTCCCATTTGCTGCACTCAACAGATTCAGAAAG
18942 IS  [CT]      GCTGGAAAATTTAGTTTTCAT
19031 I       S     CCACTGGGACACGTTGTGCTTTAACAAGATCGAAATTGAA
19031 P   A   S     CGCGCCGAGGTTGCTGCCAGCGTY
19031 P   G   S     ATGACGTGGCAGACCTGCTGCCAGCGTY
19031 T   A   S     GGACACGCTGGCAGCAATCAATTTCGATCTTGTTAAAGCACAACGTGTCCCAGTGGCC
19031 T   G   S     GGACACGCTGGCAGCAGTCAATTTCGATCTTGTTAAAGCACAACGTGTCCCAGTGGCC
                    ACTCCCGTCCCCCACTGGCTCCCTCCAAAAGAAGCAGCCGACACGGACACGCTGGCAGCA[AG]TCAATTTCGATCTTGTTAAAGCACAACGTGTCCCAGTG
19031 IS  [AG]      GCCGGTATAGATTCTGTCAGTG
19115 I       A     CCTGCACCCCGGAGCTGGGAGA
19115 P   C   A     ATGACGTGGCAGACCGGAGGCTGCTGTAY
19115 P   T   A     CGCGCCGAGGTGGAGGCTGCTGTAGY
19115 T   C   A     ATTCCTACAGCAGCCTCCGCTCCCAGCTCCGGGGTGCAGGGC
19115 T   T   A     ATTCCTACAGCAGCCTCCACTCCCAGCTCCGGGGTGCAGGGC
                    TGAGAAGGAAGACTCTGGGCCCAGCCTGCACCTGGGAGCCCTGCACCCCGGAGCTGGGAG[CT]GGAGGCTGCTGTAGGAATTGAGTCCCTGCTGTGCCT
19115 IS  [CT]      TTAGGAGAAGGAGGACGGCCAGCA
19311 I       S     TCTTCTGGGAAACTGCGGGGTCAGCCA
19311 P   G   S     ATGACGTGGCAGACCGGTGGGCCCTGY
19311 P   A   S     CGCGCCGAGGTGGTGGGCCCTGAY
19311 T   G   S     TAGGTCAGGGCCCACCGGGCTGACCCCGCAGTTTCCCAGAAGAGG
19311 T   A   S     TAGGTCAGGGCCCACCAGGCTGACCCCGCAGTTTCCCAGAAGAGG
                    GGTTTGAGGCCCCAGGAGCACATCAGACCCACTGGGCTCAGAGATAGGTCAGGGCCCACC[GA]GGCTGACCCCGCAGTTTCCCAGAAGAGGGTGAAAGG
19311 IS  [GA]      TGGCCCAGAACTGAAGAGCCTCGT
19429 I       S     GACCACTAACACAGAGGCCCAGGAGGCT
19429 P   C   S     ATGACGTGGCAGACGGTGTCTGGGGCCY
19429 P   T   S     CGCGCCGAGGAGTGTCTGGGGCCY
19429 T   C   S     CCAGGGCCCCAGACACCGCCTCCTGGGCCTCTGTGTTAGTGGTCTC
19429 T   T   S     CCAGGGCCCCAGACACTGCCTCCTGGGCCTCTGTGTTAGTGGTCTC
                    AGAGGAGTTCGAGTGGCTTCAACAGCACACAGAGCCCCTGGCCGCCAGGGCCCCAGACAC[CT]GCCTCCTGGGCCTCTGTGTTAGTGGTCTCCACCCTTG
19429 IS  [CT]      CCATCCTTGGCTGGAGTGTCTAG                                                                           XPNPEP2
19491 I       S     GCTCAGGAAGCTGCAAAGGCAAAGGTGAAC
19491 P   C   S     ATGACGTGGCAGACGAAGCATGAAGGTGAGTAGY
19491 P   A   S     CGCGCCGAGGTAAGCATGAAGGTGAGTAGY
19491 T   C   S     CTTGCTACTCACCTTCATGCTTCTTCACCTTTGCCTTTGCAGCTTCCTGAGCCT
19491 T   A   S     CTTGCTACTCACCTTCATGCTTATTCACCTTTGCCTTTGCAGCTTCCTGAGCCT
                    CCCTTTTACTCACCGTCTGCCTCTGCCCTACTAGACTACTTGCTACTCACCTTCATGCTT[CA]TTCACCTTTGCCTTTGCAGCTTCCTGAGCCTAGTATACCT
19491 IS  [CA]      TTTCCAACATGACTGTTGGT
19579 I       A     CATGGATTGGGTCGAACCATTTTCAAGGATTCCAAAAGGA
19579 P   T   A     CGCGCCGAGGTTCCTGGTTCCTGCTCY
19579 P   C   A     ATGACGTGGCAGACCTCCTGGTTCCTGCTY
19579 T   T   A     CAGAGAGCAGGAACCAGGAACCTTTTGGAATCCTTGAAAATGGTTCGACCCAATCCATGAT
19579 T   C   A     CAGAGAGCAGGAACCAGGAGCCTTTTGGAATCCTTGAAAATGGTTCGACCCAATCCATGAT
                    GTCCACAGCTTGTAAGTTAATCATGGATTGGGTCGAACCATTTTCAAGGATTCCAAAAGG[TC]TCCTGGTTCCTGCTCTCTGTGCTCTCAGCTTCTGCCAGG
19579 IS  [TC]      TGGGTCTCGATCAGGAGCACA
19667 I       S     CACTTAATCAAGTTACTTAAAACGTCTAACTCTTGTACAGATTTACAAAACTGA
19667 P   G   S     ATGACGTGGCAGACCCACCATGCTAGATTAATTGY
19667 P   A   S     CGCGCCGAGGTCACCATGCTAGATTAATTGCY
19667 T   G   S     CCAAGCAATTAATCTAGCATGGTGGCAGTTTTGTAAATCTGTACAAGAGTTAGACGTTTTAAGTAACTTGATTAAGTGCT
19667 T   A   S     CCAAGCAATTAATCTAGCATGGTGACAGTTTTGTAAATCTGTACAAGAGTTAGACGTTTTAAGTAACTTGATTAAGTGCT
                    TTGTAAAGCATCAGTGTGGAATCTTTCTTTTGTGACCCAAGCAATTAATCTAGCATGGTG[GA]CAGTTTTGTAAATCTGTACAAGAGTTAGACGTTTTAAGTAA
19667 IS  [GA]      CTTGATTAAGTGCTATAAA
20069 I       S     TTGACACTGAGGAAGATATAAGTGCTCTAGGATCAGTATGA
20069 P   A   S     CGCGCCGAGGTGAGGCTGCCACAAY
20069 P   G   S     ATGACGTGGCAGACCGAGGCTGCCACAY
20069 T   A   S     ATGTTTGTGGCAGCCTCACATACTGATCCTAGAGCACTTATATCTTCCTCAGTGTCAACT
20069 T   G   S     ATGTTTGTGGCAGCCTCGCATACTGATCCTAGAGCACTTATATCTTCCTCAGTGTCAACT
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FIGURE 129E



				AGCAGACTCTGCAACCTCTCTGCAAGAATGTGCAGACTATAGCATGTTTGTGGCAGCCTC[AG]CATACTGATCCTAGAGCACTTATATCTTCCTCAGTGTCAA	
20069	IS	[AG]		CTTCAAAACAACCTTTCTGT	
20116	I		S	CACCAGGCCCAGCTAATTCTTAATAGAGGCAGAGTTTCC	
20116	P	T	S	CGCGCCGAGGACCATGTTGGCCAGGY	
20116	P	A	S	ATGACGTGGCAGACTCCATGTTGGCCAGGY	
20116	T	T	S	CGAGCCTGGCCAACATGGTGAAACTCTGCCTCTATTAAGAATTAGCTGGGCCTGGTGGT	
20116	T	A	S	CGAGCCTGGCCAACATGGAGAAACTCTGCCTCTATTAAGAATTAGCTGGGCCTGGTGGT	
				GAGGCCAAGGTGGGCAGATTACTTGAGGTCAGGAGTTCGAGACGAGCCTGGCCAACATGG[TA]GAAACTCTGCCTCTATTAAGAATTAGCTGGGCCTGGTG	
20116	IS	[TA]		GTAGGTGTCCGTAATCCCAGCT	
20213	I		S	TGCTGTTTGTGGCCCCTGAATGTGTCAGTA	
20213	P	A	S	CGCGCCGAGGTGGCTGTGTGTGCCY	
20213	P	G	S	ATGACGTGGCAGACCGGCTGTGTGTGCY	
20213	T	A	S	TCAGGGCACACACAGCCAACTGACACATTCAGGGGCCACAAACAGCAAA	
20213	T	G	S	TCAGGGCACACACAGCCGACTGACACATTCAGGGGCCACAAACAGCAAA	
				ATCATAAAGGCTTCACTGCGCTCCTGCTCTGGCAGGGAGGCATTCAGGGCACACACAGCC[AG]ACTGACACATTCAGGGGCCACAAACAGCAAAGACACTT	
20213	IS	[AG]		TCAGAGGGTTCACAGTCACCAC	
20253	I		A	AAAAATTAGCTGGGCATGGCGGCGT	
20253	P	G	A	ATGACGTGGCAGACGGTGCCTGTAATCCCAY	
20253	P	A	A	CGCGCCGAGGAGTGCCTGTAATCCCAY	
20253	T	G	A	TAGCTGGGATTACAGGCACCCGCCGCCATGCCCAGCTAATTTTTGT	
20253	T	A	A	TAGCTGGGATTACAGGCACTCGCCGCCATGCCCAGCTAATTTTTGT	
				GACCAACATGGTGAAACCCTGTCTCTATTAAAATACAAAAATTAGCTGGGCATGGCGGCG[GA]GTGCCTGTAATCCCAGCTACTTGGGAGGCTGAGGCTGG	
20253	IS	[GA]		AGAATCGCTTGACCCCAGGAGG	
20440	I		S	GCTCCCCACCCCTGAGCCAGGAA	
20440	P	G	S	ATGACGTGGCAGACCCCCAGAGGATGGCY	
20440	P	A	S	CGCGCCGAGGTCCCAGAGGATGGCY	
20440	T	G	S	CATGGCCATCCTCTGGGGTCCTGGCTCAGGGGTGGGGAGCGG	
20440	T	A	S	CATGGCCATCCTCTGGGATCCTGGCTCAGGGGTGGGGAGCGG	
				AGCAGCTCCCAGTGCTGGCACCAGACCTCTGCCAGGCACGGGGCATGGCCATCCTCTGGG[GA]TCCTGGCTCAGGGGTGGGGAGCGGCAGTGCTGGGA	
20440	IS	[GA]		CAAGCCTGGGGAAAGGGTTTCCCAT	KIAA0015
20658	I		S	CTGTGGAGTGGGAGACACCTGACCTTTCTCAAC	
20658	P	C	S	ATGACGTGGCAGACGCTGAGATTGAGCAGAAGY	
20658	P	A	S	CGCGCCGAGGTCTGAGATTGAGCAGAAGAY	
20658	T	C	S	TTGATCTTCTGCTCAATCTCAGCTTGAGAAAGGTCAGGTGTCTCCCACTCCACAGGC	
20658	T	A	S	TTGATCTTCTGCTCAATCTCAGATTGAGAAAGGTCAGGTGTCTCCCACTCCACAGGC	
				TCATGAAGAGGTTGCTGTTGATCTGGGCATTGTACTCCTTGATCTTCTGCTCAATCTCAG[CA]TTGAGAAAGGTCAGGTGTCTCCCACTCCACAGGCTCGTC	
20658	IS	[CA]		CTGCAAGATGGGCCAGCATGG	
20661	I		S	GACCTATCCGGCCCTTCCAGGAGGGC	
20661	P	C	S	ATGACGTGGCAGACGGGCTCTGGGTGGY	
20661	P	A	S	CGCGCCGAGGTGGCTCTGGGTGGY	
20661	T	C	S	TCCCCCACCCAGAGCCCCCCTCCTGGAAGGGCCGGATAGGTCAG	
20661	T	A	S	TCCCCCACCCAGAGCCACCCTCCTGGAAGGGCCGGATAGGTCAG	
				CTGCATGGCACCCTTAGATTCCTCTGGGGCAGAGACTGTCCCTTTCCCCCACCCAGAGCC[CA]CCCTCCTGGAAGGGCCGGATAGGTCAGGGCTGAGAAT	
20661	IS	[CA]		GCAGCCAGGCCTATCTTCAGGGG	
20665	I		S	GGTTCAGCTTCACATTTTCCCCTTGAAAGGACACATGA	
20665	P	G	S	ATGACGTGGCAGACCGCTGGCAGAAATGAGY	
20665	P	A	S	CGCGCCGAGGTGCTGGCAGAAATGAGY	
20665	T	G	S	CACCCTCATTTCTGCCAGCGCATGTGTCCTTTCAAGGGGAAAATGTGAAGCTGAACCCC	
20665	T	A	S	CACCCTCATTTCTGCCAGCACATGTGTCCTTTCAAGGGGAAAATGTGAAGCTGAACCCC	
				TAGGTGATGTTTCCAGCTGCCAAGTGCTCTTTGTTACTGTCCACCCTCATTTCTGCCAGC[GA]CATGTGTCCTTTCAAGGGGAAAATGTGAAGCTGAACCCC	
20665	IS	[GA]		CTCCAGACACCCAGAATGTAG	HD
20786	I		S	CTCCTGACCTTGCCCACACTGATGGGACT	
20786	P	C	S	ATGACGTGGCAGACGTGCTCATTGCTGATGCY	
20786	P	T	S	CGCGCCGAGGATGCTCATTGCTGATGCY	
20786	T	C	S	CGCAGCATCAGCAATGAGCACGTCCCATCAGTGTGGGCAAGGTCAGGAGGC	
20786	T	T	S	CGCAGCATCAGCAATGAGCATGTCCCATCAGTGTGGGCAAGGTCAGGAGGC	
				AGGGCTGCAGTCTCACTGAGCAAGCCCGCAATGCCTGGCCCGCAGCATCAGCAATGAGCA[CT]GTCCCATCAGTGTGGGCAAGGTCAGGAGGCGTCCACA	
20786	IS	[CT]		TCAATAGATCATAGCAAGTACTT	
20868	I		S	GCAGCTGCTCGGCCTGCGTGA	
20868	P	G	S	ATGACGTGGCAGACCTGACCTGGGTGCGY	
20868	P	A	S	CGCGCCGAGGTTGACCTGGGTGCGY	
20868	T	G	S	GCTGCGCACCCAGGTCAGCACGCAGGCCGAGCAGCTGCGG	
20868	T	A	S	GCTGCGCACCCAGGTCAACACGCAGGCCGAGCAGCTGCGG	
				ACCTGCGAGAGCTTCAGCAGCGCCTGGAGCCCTACGCGGACCAGCTGCGCACCCAGGTCA[GA]CACGCAGGCCGAGCAGCTGCGGCGCCAGCTGACCCC	
20868	IS	[GA]		CTACGCACAGCGCATGGAGAGAGT	APOA4
21035	I		S	CTGTGGTTATGCCCTCCCCTGGGCA	
21035	P	G	S	ATGACGTGGCAGACCTTGGGGCTGAGTTACY	
21035	P	A	S	CGCGCCGAGGTTTGGGGCTGAGTTACCY	
21035	T	G	S	TCCTGGTAACTCAGCCCCAAGGCCCAGGGGAGGGCATAACCACAGGC	
21035	T	A	S	TCCTGGTAACTCAGCCCCAAAGCCCAGGGGAGGGCATAACCACAGGC	
				GTCCAAGGTGAGCGGCGGCCCCAGCTCTGCTCTGGTTTCCTCCTGGTAACTCAGCCCCAA[GA]GCCCAGGGGAGGGCATAACCACAGGCAGAAGGTGGA	
21035	IS	[GA]		GGGGAAAGCAGCCAATGGTCGGGG	
21234	I		S	GCATTACCCCTAGCTTTATCTCAGCATCTCATCTGCTTTT	
21234	P	G	S	CGCGCCGAGGCTGGAGGACCTGATCTGY	
21234	P	C	S	ATGACGTGGCAGACGTGGAGGACCTGATCTGY	
21234	T	G	S	GGGTCAGATCAGGTCCTCCAGAAAGCAGATGAGATGCTGAGATAAAGCTAGGGGTAATGCCC	
21234	T	C	S	GGGTCAGATCAGGTCCTCCACAAAGCAGATGAGATGCTGAGATAAAGCTAGGGGTAATGCCC	
				GCTTCGAGTTCCCCTTGTCCCTCAAGAATCCAGGCCTTCTGGGTCAGATCAGGTCCTCCA[GC]AAAGCAGATGAGATGCTGAGATAAAGCTAGGGGTAATG	
21234	IS	[GC]		CCCGTGACAGAGAAGGGGAAAT	
21431	I		S	GCCCCTCCAGAATAACAAAACCAAAAAAACCCACAAACAT	
21431	P	T	S	CGCGCCGAGGAGGCAGTGCCACAGY	
21431	P	C	S	ATGACGTGGCAGACGGGCAGTGCCACAY	
21431	T	T	S	CCTTCTGTGGCACTGCCTTGTTTGTGGGTTTTTTTGGTTTTGTTATTCTGGAGGGGCAG	
21431	T	C	S	CCTTCTGTGGCACTGCCCTGTTTGTGGGTTTTTTTGGTTTTGTTATTCTGGAGGGGCAG	
				CAAGATCGTTCAGAGACAGAGATAGTGGATCCTGGTGCAGTGACCTTCTGTGGCACTGCC[TC]TGTTTGTGGGTTTTTTTGGTTTTGTTATTCTGGAGGGGC	
21431	IS	[TC]		AGAAGCTGAGTCGGGGCTGTC	
21512	I		S	GAGTGATGAGGGGCCTCCACACAGCTT	
21512	P	C	S	ATGACGTGGCAGACGCACACGCACATGCY	
21512	P	G	S	CGCGCCGAGGCCACACGCACATGCY	
21512	T	C	S	ACGTGCATGTGCGTGTGCAGCTGTGTGGAGGCCCCTCATCACTCAC	
21512	T	G	S	ACGTGCATGTGCGTGTGGAGCTGTGTGGAGGCCCCTCATCACTCAC	
				GTGCTAGGAGACAGGAGAGGTGTCTCCACGGGGGACACGAGGCACGTGCATGTGCGTGTG[CG]AGCTGTGTGGAGGCCCCTCATCACTCACAGCACCGC	
21512	IS	[CG]		CCACGTTGAGCCTCCTGGATGCCA	
21620	I		A	CCAGGCAAGGAATCACCTGGATTTTAATTCTGACTTTTCTCAGA	
21620	P	C	A	ATGACGTGGCAGACCCTTGGGCATGTCACY	
21620	P	T	A	CGCGCCGAGGTCTTGGGCATGTCACAY	
21620	T	C	A	GTGATGTGACATGCCCAAGGCTGAGAAAAGTCAGAATTAAAATCCAGGTGATTCCTTGCCTGGAC	
21620	T	T	A	GTGATGTGACATGCCCAAGACTGAGAAAAGTCAGAATTAAAATCCAGGTGATTCCTTGCCTGGAC	

FIGURE 129E

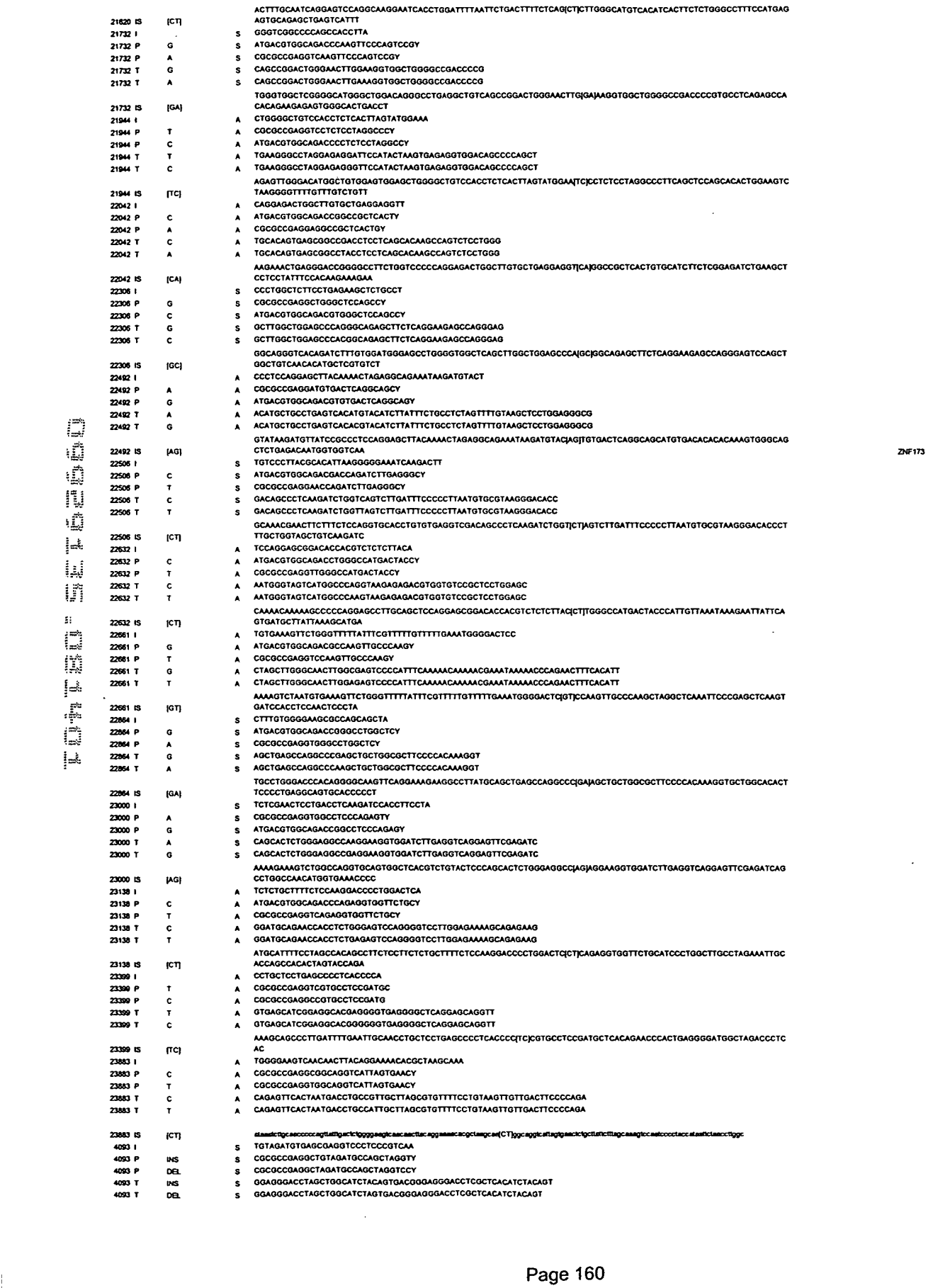

ACTTTGCAATCAGGAGTCCAGGCAAGGAATCACCTGGATTTTAATTCTGACTTTTCTCAG[CT]CTTGGGCATGTCACATCACTTCTCTGGGCCTTTCCATGAG
21620 IS [CT] AGTGCAGAGCTGAGTCATTT
21732 I S GGGTCGGCCCCAGCCACCTTA
21732 P G S ATGACGTGGCAGACCCAAGTTCCCAGTCCGY
21732 P A S CGCGCCGAGGTCAAGTTCCCAGTCCGY
21732 T G S CAGCCGGACTGGGAACTTGGAAGGTGGCTGGGGCCGACCCCG
21732 T A S CAGCCGGACTGGGAACTTGAAAGGTGGCTGGGGCCGACCCCG
TGGGTGGCTCGGGGCATGGGCTGGACAGGGCCTGAGGCTGTCAGCCGGACTGGGAACTTG[GA]AAGGTGGCTGGGGCCGACCCCGTGCCTCAGAGCCA
21732 IS [GA] CACAGAAGAGAGTGGGCACTGACCT
21944 I A CTGGGGCTGTCCACCTCTCACTTAGTATGGAAA
21944 P T A CGCGCCGAGGTCCTCTCCTAGGCCCY
21944 P C A ATGACGTGGCAGACCCCTCTCCTAGGCCY
21944 T T A TGAAGGGCCTAGGAGAGGATTCCATACTAAGTGAGAGGTGGACAGCCCCAGCT
21944 T C A TGAAGGGCCTAGGAGAGGGTTCCATACTAAGTGAGAGGTGGACAGCCCCAGCT
AGAGTTGGGACATGGCTGTGGAGTGGAGCTGGGGCTGTCCACCTCTCACTTAGTATGGAA[TC]CCTCTCCTAGGCCCTTCAGCTCCAGCACACTGGAAGTC
21944 IS [TC] TAAGGGGTTTTGTTTGTCTGTT
22042 I A CAGGAGACTGGCTTGTGCTGAGGAGGTT
22042 P C A ATGACGTGGCAGACCGGCCGCTCACTY
22042 P A A CGCGCCGAGGAGGCCGCTCACTGY
22042 T C A TGCACAGTGAGCGGCCGACCTCCTCAGCACAAGCCAGTCTCCTGGG
22042 T A A TGCACAGTGAGCGGCCTACCTCCTCAGCACAAGCCAGTCTCCTGGG
AAGAAACTGAGGGACCGGGGCCTTCTGGTCCCCCAGGAGACTGGCTTGTGCTGAGGAGGT[CA]GGCCGCTCACTGTGCATCTTCTCGGAGATCTGAAGCT
22042 IS [CA] CCTCCTATTTCCACAAGAAAGAA
22306 I S CCCTGGCTCTTCCTGAGAAGCTCTGCCT
22306 P G S CGCGCCGAGGCTGGGCTCCAGCCY
22306 P C S ATGACGTGGCAGACGTGGGCTCCAGCCY
22306 T G S GCTTGGCTGGAGCCCAGGGCAGAGCTTCTCAGGAAGAGCCAGGGAG
22306 T C S GCTTGGCTGGAGCCCACGGCAGAGCTTCTCAGGAAGAGCCAGGGAG
GGCAGGGTCACAGATCTTTGTGGATGGGAGCCTGGGGTGGCTCAGCTTGGCTGGAGCCCA[GC]GGCAGAGCTTCTCAGGAAGAGCCAGGGAGTCCAGCT
22306 IS [GC] GGCTGTCAACACATGCTCGTGTCT
22492 I A CCCTCCAGGAGCTTACAAAACTAGAGGCAGAAATAAGATGTACT
22492 P A A CGCGCCGAGGATGTGACTCAGGCAGCY
22492 P G A ATGACGTGGCAGACGTGTGACTCAGGCAGY
22492 T A A ACATGCTGCCTGAGTCACATGTACATCTTATTTCTGCCTCTAGTTTTGTAAGCTCCTGGAGGGCG
22492 T G A ACATGCTGCCTGAGTCACACGTACATCTTATTTCTGCCTCTAGTTTTGTAAGCTCCTGGAGGGCG
GTATAAGATGTTATCCGCCCTCCAGGAGCTTACAAAACTAGAGGCAGAAATAAGATGTAC[AG]TGTGACTCAGGCAGCATGTGACACACACAAAGTGGGCAG
22492 IS [AG] CTCTGAGACAATGGTGGTCAA ZNF173
22506 I S TGTCCCTTACGCACATTAAGGGGGAAATCAAGACTT
22506 P C S ATGACGTGGCAGACGACCAGATCTTGAGGGCY
22506 P T S CGCGCCGAGGAACCAGATCTTGAGGGCY
22506 T C S GACAGCCCTCAAGATCTGGTCAGTCTTGATTTCCCCCTTAATGTGCGTAAGGGACACC
22506 T T S GACAGCCCTCAAGATCTGGTTAGTCTTGATTTCCCCCTTAATGTGCGTAAGGGACACC
GCAAACGAACTTCTTTCTCCAGGTGCACCTGTGTGAGGTCGACAGCCCTCAAGATCTGGT[CT]AGTCTTGATTTCCCCCTTAATGTGCGTAAGGGACACCCT
22506 IS [CT] TTGCTGGTAGCTGTCAAGATC
22632 I A TCCAGGAGCGGACACCACGTCTCTCTTACA
22632 P C A ATGACGTGGCAGACCTGGGCCATGACTACCY
22632 P T A CGCGCCGAGGTTGGGCCATGACTACCY
22632 T C A AATGGGTAGTCATGGCCCAGGTAAGAGAGACGTGGTGTCCGCTCCTGGAGC
22632 T T A AATGGGTAGTCATGGCCCAAGTAAGAGAGACGTGGTGTCCGCTCCTGGAGC
CAAAACAAAAAGCCCCCAGGAGCCTTGCAGCTCCAGGAGCGGACACCACGTCTCTCTTAC[CT]TGGGCCATGACTACCCATTGTTAAATAAAGAATTATTCA
22632 IS [CT] GTGATGCTTATTAAAGCATGA
22661 I A TGTGAAAGTTCTGGGTTTTTATTTCGTTTTTGTTTTTGAAATGGGGACTCC
22661 P G A ATGACGTGGCAGACGCCAAGTTGCCCAAGY
22661 P T A CGCGCCGAGGTCCAAGTTGCCCAAGY
22661 T G A CTAGCTTGGGCAACTTGGCGAGTCCCCATTTCAAAAACAAAAACGAAATAAAAACCCAGAACTTTCACATT
22661 T T A CTAGCTTGGGCAACTTGGAGAGTCCCCATTTCAAAAACAAAAACGAAATAAAAACCCAGAACTTTCACATT
AAAAGTCTAATGTGAAAGTTCTGGGTTTTTATTTCGTTTTTGTTTTTGAAATGGGGACT[CT]GT]CCAAGTTGCCCAAGCTAGGCTCAAATTCCCGAGCTCAAGT
22661 IS [GT] GATCCACCTCCAACTCCCTA
22864 I S CTTTGTGGGGAAGCGCCAGCAGCTA
22864 P G S ATGACGTGGCAGACCGGGCCTGGCTCY
22864 P A S CGCGCCGAGGTGGGCCTGGCTCY
22864 T G S AGCTGAGCCAGGCCCGAGCTGCTGGCGCTTCCCCACAAAGGT
22864 T A S AGCTGAGCCAGGCCCAAGCTGCTGGCGCTTCCCCACAAAGGT
TGCCTGGGACCCACAGGGGCAAGTTCAGGAAAGAAGGCCTTATGCAGCTGAGCCAGGCCC[GA]AGCTGCTGGCGCTTCCCCACAAAGGTGCTGGCACACT
22864 IS [GA] TCCCCTGAGGCAGTGCACCCCCT
23000 I S TCTCGAACTCCTGACCTCAAGATCCACCTTCCTA
23000 P A S CGCGCCGAGGTGGCCTCCCAGAGTY
23000 P G S ATGACGTGGCAGACCGGCCTCCCAGAGY
23000 T A S CAGCACTCTGGGAGGCCAAGGAAGGTGGATCTTGAGGTCAGGAGTTCGAGATC
23000 T G S CAGCACTCTGGGAGGCCGAGGAAGGTGGATCTTGAGGTCAGGAGTTCGAGATC
AAAAGAAAGTCTGGCCAGGTGCAGTGGCTCACGTCTGTACTCCCAGCACTCTGGGAGGCC[AG]AGGAAGGTGGATCTTGAGGTCAGGAGTTCGAGATCAG
23000 IS [AG] CCTGGCCAACATGGTGAAACCCC
23138 I A TCTCTGCTTTTCTCCAAGGACCCCTGGACTCA
23138 P C A ATGACGTGGCAGACCCAGAGGTGGTTCTGCY
23138 P T A CGCGCCGAGGTCAGAGGTGGTTCTGCY
23138 T C A GGATGCAGAACCACCTCTGGGAGTCCAGGGGTCCTTGGAGAAAAGCAGAGAAG
23138 T T A GGATGCAGAACCACCTCTGAGAGTCCAGGGGTCCTTGGAGAAAAGCAGAGAAG
ATGCATTTTCCTAGCCACAGCCTTCTCCTTCTCTGCTTTTCTCCAAGGACCCCTGGACT[CT]CAGAGGTGGTTCTGCATCCCTGGCTTGCCTAGAAATTGC
23138 IS [CT] ACCAGCCACACTAGTACCAGA
23399 I A CCTGCTCCTGAGCCCCTCACCCCA
23399 P T A CGCGCCGAGGTCGTGCCTCCGATGC
23399 P C A CGCGCCGAGGCCGTGCCTCCGATG
23399 T T A GTGAGCATCGGAGGCACGAGGGGTGAGGGGCTCAGGAGCAGGTT
23399 T C A GTGAGCATCGGAGGCACGGGGGGTGAGGGGCTCAGGAGCAGGTT
AAAGCAGCCCTTGATTTTGAATTGCAACCTGCTCCTGAGCCCCTCACCCC[TC]CGTGCCTCCGATGCTCACAGAACCCACTGAGGGGATGGCTAGACCCTC
23399 IS [TC] AC
23883 I A TGGGGAAGTCAACAACTTACAGGAAAACACGCTAAGCAAA
23883 P C A CGCGCCGAGGCGGCAGGTCATTAGTGAACY
23883 P T A CGCGCCGAGGTGGCAGGTCATTAGTGAACY
23883 T C A CAGAGTTCACTAATGACCTGCCGTTGCTTAGCGTGTTTTCCTGTAAGTTGTTGACTTCCCCAGA
23883 T T A CAGAGTTCACTAATGACCTGCCATTGCTTAGCGTGTTTTCCTGTAAGTTGTTGACTTCCCCAGA
[illegible]
23883 IS [CT]
4093 I S TGTAGATGTGAGCGAGGTCCCTCCCGTCAA
4093 P INS S CGCGCCGAGGCTGTAGATGCCAGCTAGGTY
4093 P DEL S CGCGCCGAGGCTAGATGCCAGCTAGGTCCY
4093 T INS S GGAGGGACCTAGCTGGCATCTACAGTGACGGGAGGGACCTCGCTCACATCTACAGT
4093 T DEL S GGAGGGACCTAGCTGGCATCTAGTGACGGGAGGGACCTCGCTCACATCTACAGT

FIGURE 129E

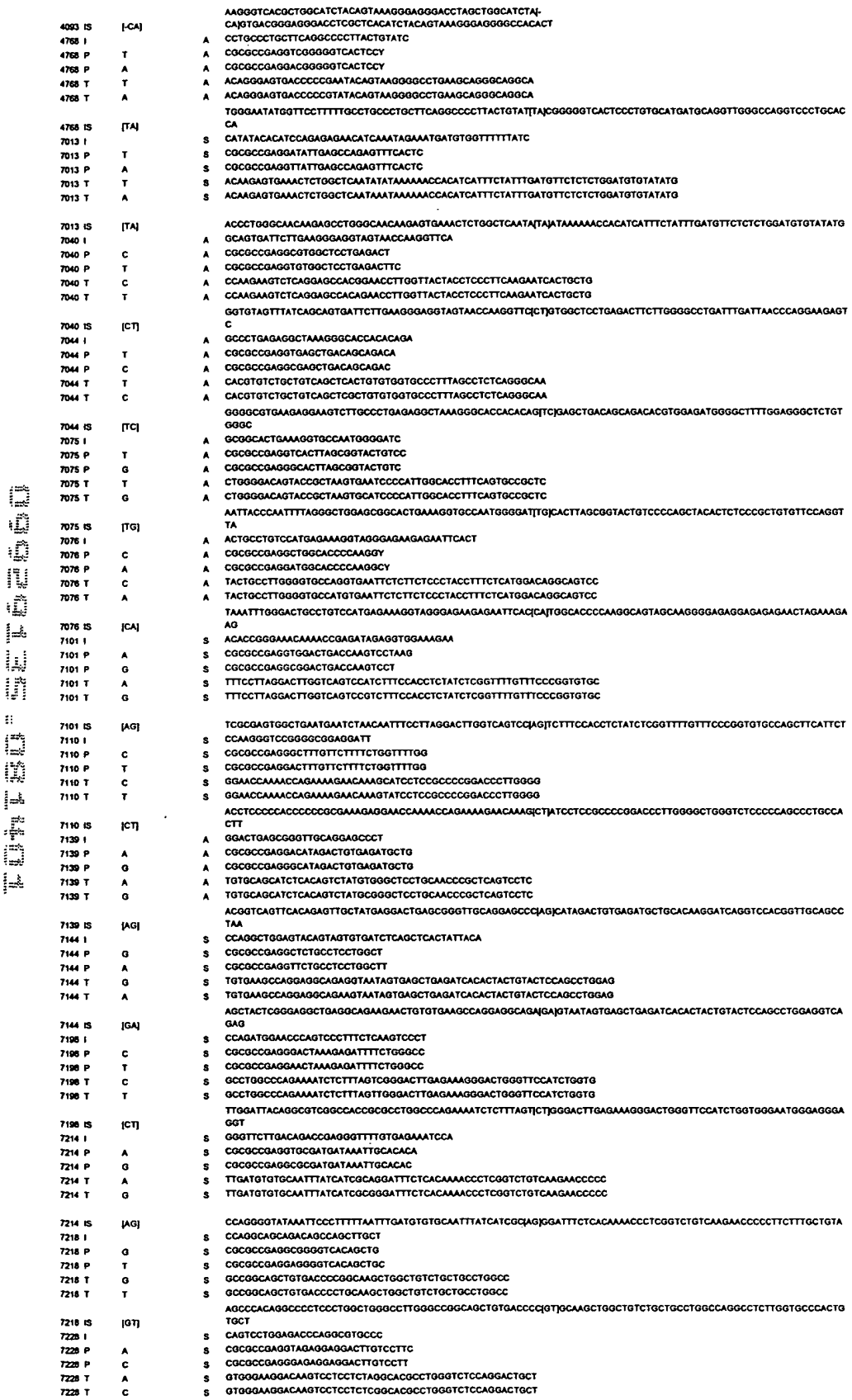

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4093 IS [-CA] CA]GTGACGGGAGGGACCTCGCTCACATCTACAGTAAAGGGAGGGGCCACACT
4768 I A CCTGCCCTGCTTCAGGCCCCTTACTGTATC
4768 P T A CGCGCCGAGGTCGGGGGTCACTCCY
4768 P A A CGCGCCGAGGACGGGGGTCACTCCY
4768 T T A ACAGGGAGTGACCCCCGAATACAGTAAGGGGCCTGAAGCAGGGCAGGCA
4768 T A A ACAGGGAGTGACCCCCGTATACAGTAAGGGGCCTGAAGCAGGGCAGGCA
TGGGAATATGGTTCCTTTTTGCCTGCCCTGCTTCAGGCCCCTTACTGTAT[TA]CGGGGGTCACTCCCTGTGCATGATGCAGGTTGGGCCAGGTCCCTGCAC
4768 IS [TA] CA
7013 I S CATATACACATCCAGAGAGAACATCAAATAGAAATGATGTGGTTTTTTATC
7013 P T S CGCGCCGAGGATATTGAGCCAGAGTTTCACTC
7013 P A S CGCGCCGAGGTTATTGAGCCAGAGTTTCACTC
7013 T T S ACAAGAGTGAAACTCTGGCTCAATATATAAAAAACCACATCATTTCTATTTGATGTTCTCTCTGGATGTGTATATG
7013 T A S ACAAGAGTGAAACTCTGGCTCAATAAATAAAAAACCACATCATTTCTATTTGATGTTCTCTCTGGATGTGTATATG
ACCCTGGGCAACAAGAGCCTGGGCAACAAGAGTGAAACTCTGGCTCAATA[TA]ATAAAAAACCACATCATTTCTATTTGATGTTCTCTCTGGATGTGTATATG
7013 IS [TA]
7040 I A GCAGTGATTCTTGAAGGGAGGTAGTAACCAAGGTTCA
7040 P C A CGCGCCGAGGCGTGGCTCCTGAGACT
7040 P T A CGCGCCGAGGTGTGGCTCCTGAGACTTC
7040 T C A CCAAGAAGTCTCAGGAGCCACGGAACCTTGGTTACTACCTCCCTTCAAGAATCACTGCTG
7040 T T A CCAAGAAGTCTCAGGAGCCACAGAACCTTGGTTACTACCTCCCTTCAAGAATCACTGCTG
GGTGTAGTTTATCAGCAGTGATTCTTGAAGGGAGGTAGTAACCAAGGTTC[CT]GTGGCTCCTGAGACTTCTTGGGGCCTGATTTGATTAACCCAGGAAGAGT
7040 IS [CT] C
7044 I A GCCCTGAGAGGCTAAAGGGCACCACACAGA
7044 P T A CGCGCCGAGGTGAGCTGACAGCAGACA
7044 P C A CGCGCCGAGGCGAGCTGACAGCAGAC
7044 T T A CACGTGTCTGCTGTCAGCTCACTGTGTGGTGCCCTTTAGCCTCTCAGGGCAA
7044 T C A CACGTGTCTGCTGTCAGCTCGCTGTGTGGTGCCCTTTAGCCTCTCAGGGCAA
GGGGCGTGAAGAGGAAGTCTTGCCCTGAGAGGCTAAAGGGCACCACACAG[TC]GAGCTGACAGCAGACACGTGGAGATGGGGCTTTTGGAGGGCTCTGT
7044 IS [TC] GGGC
7075 I A GCGGCACTGAAAGGTGCCAATGGGGATC
7075 P T A CGCGCCGAGGTCACTTAGCGGTACTGTCC
7075 P G A CGCGCCGAGGGCACTTAGCGGTACTGTC
7075 T T A CTGGGGACAGTACCGCTAAGTGAATCCCCATTGGCACCTTTCAGTGCCGCTC
7075 T G A CTGGGGACAGTACCGCTAAGTGCATCCCCATTGGCACCTTTCAGTGCCGCTC
AATTACCCAATTTTAGGGCTGGAGCGGCACTGAAAGGTGCCAATGGGGAT[TG]CACTTAGCGGTACTGTCCCCAGCTACACTCTCCCGCTGTGTTCCAGGT
7075 IS [TG] TA
7076 I A ACTGCCTGTCCATGAGAAAGGTAGGGAGAAGAGAATTCACT
7076 P C A CGCGCCGAGGCTGGCACCCCAAGGY
7076 P A A CGCGCCGAGGATGGCACCCCAAGGCY
7076 T C A TACTGCCTTGGGGTGCCAGGTGAATTCTCTTCTCCCTACCTTTCTCATGGACAGGCAGTCC
7076 T A A TACTGCCTTGGGGTGCCATGTGAATTCTCTTCTCCCTACCTTTCTCATGGACAGGCAGTCC
TAAATTTGGGACTGCCTGTCCATGAGAAAGGTAGGGAGAAGAGAATTCAC[CA]TGGCACCCCAAGGCAGTAGCAAGGGGAGAGGAGAGAGAACTAGAAAGA
7076 IS [CA] AG
7101 I S ACACCGGGAAACAAAACCGAGATAGAGGTGGAAAGAA
7101 P A S CGCGCCGAGGTGGACTGACCAAGTCCTAAG
7101 P G S CGCGCCGAGGCGGACTGACCAAGTCCT
7101 T A S TTTCCTTAGGACTTGGTCAGTCCATCTTTCCACCTCTATCTCGGTTTTGTTTCCCGGTGTGC
7101 T G S TTTCCTTAGGACTTGGTCAGTCCGTCTTTCCACCTCTATCTCGGTTTTGTTTCCCGGTGTGC
TCGCGAGTGGCTGAATGAATCTAACAATTTCCTTAGGACTTGGTCAGTCC[AG]TCTTTCCACCTCTATCTCGGTTTTGTTTCCCGGTGTGCCAGCTTCATTCT
7101 IS [AG]
7110 I S CCAAGGGTCCGGGGCGGAGGATT
7110 P C S CGCGCCGAGGGCTTTGTTCTTTTCTGGTTTTGG
7110 P T S CGCGCCGAGGACTTTGTTCTTTTCTGGTTTTGG
7110 T C S GGAACCAAAACCAGAAAAGAACAAAGCATCCTCCGCCCCGGACCCTTGGGG
7110 T T S GGAACCAAAACCAGAAAAGAACAAAGTATCCTCCGCCCCGGACCCTTGGGG
ACCTCCCCCACCCCCCGCGAAAGAGGAACCAAAACCAGAAAAGAACAAAG[CT]ATCCTCCGCCCCGGACCCTTGGGGCTGGGTCTCCCCCAGCCCTGCCA
7110 IS [CT] CTT
7139 I A GGACTGAGCGGGTTGCAGGAGCCCT
7139 P A A CGCGCCGAGGACATAGACTGTGAGATGCTG
7139 P G A CGCGCCGAGGGCATAGACTGTGAGATGCTG
7139 T A A TGTGCAGCATCTCACAGTCTATGTGGGCTCCTGCAACCCGCTCAGTCCTC
7139 T G A TGTGCAGCATCTCACAGTCTATGCGGGCTCCTGCAACCCGCTCAGTCCTC
ACGGTCAGTTCACAGAGTTGCTATGAGGACTGAGCGGGTTGCAGGAGCCC[AG]CATAGACTGTGAGATGCTGCACAAGGATCAGGTCCACGGTTGCAGCC
7139 IS [AG] TAA
7144 I S CCAGGCTGGAGTACAGTAGTGTGATCTCAGCTCACTATTACA
7144 P G S CGCGCCGAGGCTCTGCCTCCTGGCT
7144 P A S CGCGCCGAGGTTCTGCCTCCTGGCTT
7144 T G S TGTGAAGCCAGGAGGCAGAGGTAATAGTGAGCTGAGATCACACTACTGTACTCCAGCCTGGAG
7144 T A S TGTGAAGCCAGGAGGCAGAAGTAATAGTGAGCTGAGATCACACTACTGTACTCCAGCCTGGAG
AGCTACTCGGGAGGCTGAGGCAGAAGAACTGTGTGAAGCCAGGAGGCAGA[GA]GTAATAGTGAGCTGAGATCACACTACTGTACTCCAGCCTGGAGGTCA
7144 IS [GA] GAG
7198 I S CCAGATGGAACCCAGTCCCTTTCTCAAGTCCCT
7198 P C S CGCGCCGAGGGACTAAAGAGATTTTCTGGGCC
7198 P T S CGCGCCGAGGAACTAAAGAGATTTTCTGGGCC
7198 T C S GCCTGGCCCAGAAAATCTCTTTAGTTGGGACTTGAGAAAGGGACTGGGTTCCATCTGGTG
7198 T T S GCCTGGCCCAGAAAATCTCTTTAGTTGGGACTTGAGAAAGGGACTGGGTTCCATCTGGTG
TTGGATTACAGGCGTCGGCCACCGCGCCTGGCCCAGAAAATCTCTTTAGT[CT]GGGACTTGAGAAAGGGACTGGGTTCCATCTGGTGGGAATGGGAGGGA
7198 IS [CT] GGT
7214 I S GGGTTCTTGACAGACCGAGGGTTTTGTGAGAAATCCA
7214 P A S CGCGCCGAGGTGCGATGATAAATTGCACACA
7214 P G S CGCGCCGAGGCGCGATGATAAATTGCACAC
7214 T A S TTGATGTGTGCAATTTATCATCGCAGGATTTCTCACAAAACCCTCGGTCTGTCAAGAACCCCC
7214 T G S TTGATGTGTGCAATTTATCATCGCGGGATTTCTCACAAAACCCTCGGTCTGTCAAGAACCCCC
CCAGGGGTATAAATTCCCTTTTTAATTTGATGTGTGCAATTTATCATCGC[AG]GGATTTCTCACAAAACCCTCGGTCTGTCAAGAACCCCCTTCTTTGCTGTA
7214 IS [AG]
7218 I S CCAGGCAGCAGACAGCCAGCTTGCT
7218 P G S CGCGCCGAGGCGGGGTCACAGCTG
7218 P T S CGCGCCGAGGAGGGGTCACAGCTGC
7218 T G S GCCGGCAGCTGTGACCCCGGCAAGCTGGCTGTCTGCTGCCTGGCC
7218 T T S GCCGGCAGCTGTGACCCCTGCAAGCTGGCTGTCTGCTGCCTGGCC
AGCCCACAGGCCCCTCCCTGGCTGGGCCTTGGGCCGGCAGCTGTGACCCC[GT]GCAAGCTGGCTGTCTGCTGCCTGGCCAGGCCTCTTGGTGCCCACTG
7218 IS [GT] TGCT
7228 I S CAGTCCTGGAGACCCAGGCGTGCCC
7228 P A S CGCGCCGAGGTAGAGGAGGACTTGTCCTTC
7228 P C S CGCGCCGAGGGAGAGGAGGACTTGTCCTT
7228 T A S GTGGGAAGGACAAGTCCTCCTCTAGGCACGCCTGGGTCTCCAGGACTGCT
7228 T C S GTGGGAAGGACAAGTCCTCCTCTCGGCACGCCTGGGTCTCCAGGACTGCT

FIGURE 129E

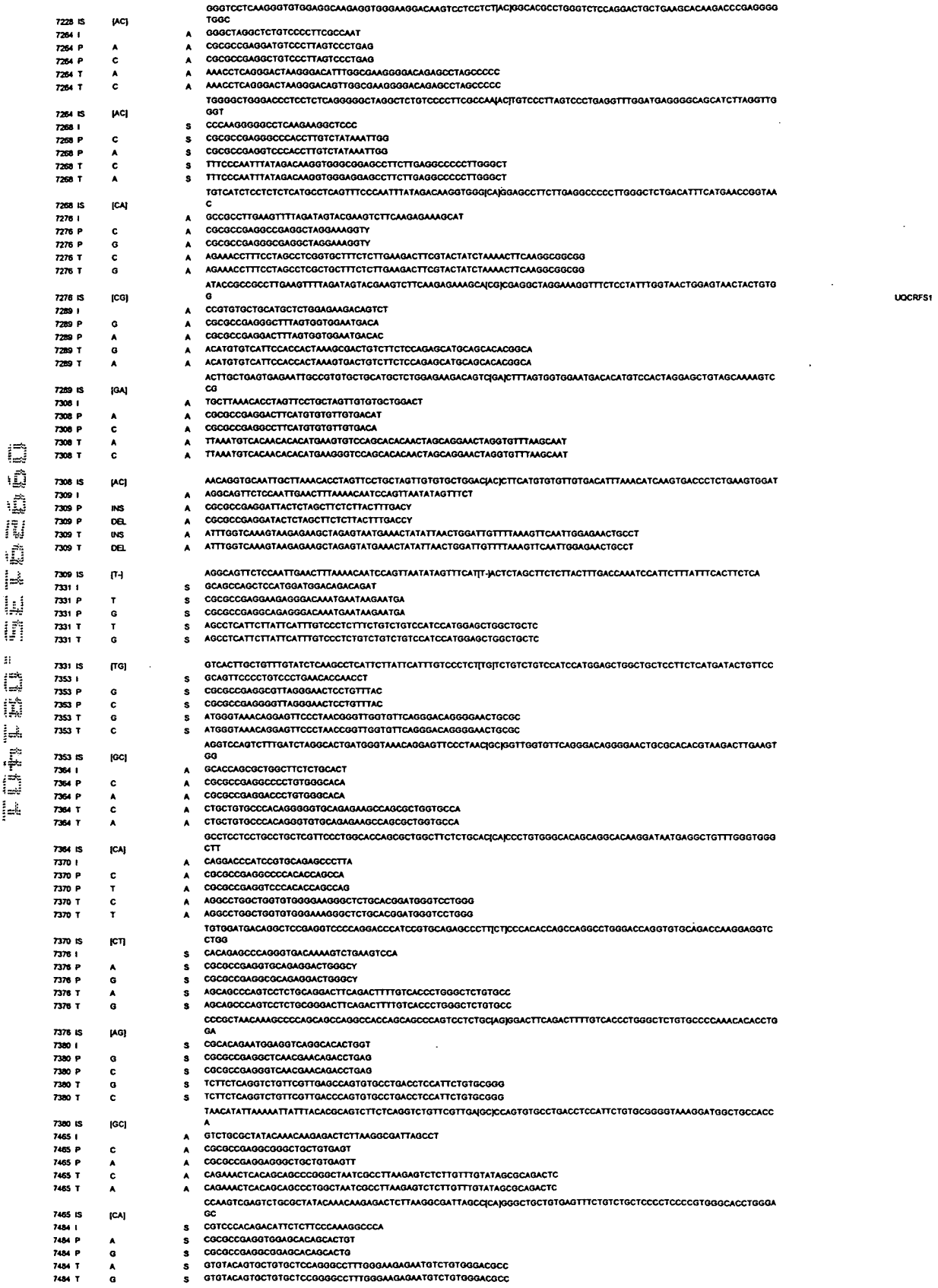

GGGTCCTCAAGGGTGTGGAGGCAAGAGGTGGGAAGGACAAGTCCTCCTCT[AC]GGCACGCCTGGGTCTCCAGGACTGCTGAAGCACAAGACCCGAGGGG
7228 IS [AC] TGGC
7264 I A GGGCTAGGCTCTGTCCCCTTCGCCAAT
7264 P A A CGCGCCGAGGATGTCCCTTAGTCCCTGAG
7264 P C A CGCGCCGAGGCTGTCCCTTAGTCCCTGAG
7264 T A A AAACCTCAGGGACTAAGGGACATTTGGCGAAGGGGACAGAGCCTAGCCCCC
7264 T C A AAACCTCAGGGACTAAGGGACAGTTGGCGAAGGGGACAGAGCCTAGCCCCC
TGGGGCTGGGACCCTCCTCTCAGGGGGCTAGGCTCTGTCCCCTTCGCCAA[AC]TGTCCCTTAGTCCCTGAGGTTTGGATGAGGGGCAGCATCTTAGGTTG
7264 IS [AC] GGT
7268 I S CCCAAGGGGGCCTCAAGAAGGCTCCC
7268 P C S CGCGCCGAGGGCCCACCTTGTCTATAAATTGG
7268 P A S CGCGCCGAGGTCCCACCTTGTCTATAAATTGG
7268 T C S TTTCCCAATTTATAGACAAGGTGGGCGGAGCCTTCTTGAGGCCCCCTTGGGCT
7268 T A S TTTCCCAATTTATAGACAAGGTGGGAGGAGCCTTCTTGAGGCCCCCTTGGGCT
TGTCATCTCCTCTCTCATGCCTCAGTTTCCCAATTTATAGACAAGGTGGG[CA]GGAGCCTTCTTGAGGCCCCCTTGGGCTCTGACATTTCATGAACCGGTAA
7268 IS [CA] C
7276 I A GCCGCCTTGAAGTTTTAGATAGTACGAAGTCTTCAAGAGAAAGCAT
7276 P C A CGCGCCGAGGCCGAGGCTAGGAAAGGTY
7276 P G A CGCGCCGAGGGCGAGGCTAGGAAAGGTY
7276 T C A AGAAACCTTTCCTAGCCTCGGTGCTTTCTCTTGAAGACTTCGTACTATCTAAAACTTCAAGGCGGCGG
7276 T G A AGAAACCTTTCCTAGCCTCGCTGCTTTCTCTTGAAGACTTCGTACTATCTAAAACTTCAAGGCGGCGG
ATACCGCCGCCTTGAAGTTTTAGATAGTACGAAGTCTTCAAGAGAAAGCA[CG]CGAGGCTAGGAAAGGTTTCTCCTATTTGGTAACTGGAGTAACTACTGTG
7278 IS [CG] G UQCRFS1
7289 I A CCGTGTGCTGCATGCTCTGGAGAAGACAGTCT
7289 P G A CGCGCCGAGGGCTTTAGTGGTGGAATGACA
7289 P A A CGCGCCGAGGACTTTAGTGGTGGAATGACAC
7289 T G A ACATGTGTCATTCCACCACTAAAGCGACTGTCTTCTCCAGAGCATGCAGCACACGGCA
7289 T A A ACATGTGTCATTCCACCACTAAAGTGACTGTCTTCTCCAGAGCATGCAGCACACGGCA
ACTTGCTGAGTGAGAATTGCCGTGTGCTGCATGCTCTGGAGAAGACAGTC[GA]CTTTAGTGGTGGAATGACACATGTCCACTAGGAGCTGTAGCAAAAGTC
7289 IS [GA] CG
7308 I A TGCTTAAACACCTAGTTCCTGCTAGTTGTGTGCTGGACT
7308 P A A CGCGCCGAGGACTTCATGTGTGTTGTGACAT
7308 P C A CGCGCCGAGGCCTTCATGTGTGTTGTGACA
7308 T A A TTAAATGTCACAACACACATGAAGTGTCCAGCACACAACTAGCAGGAACTAGGTGTTTAAGCAAT
7308 T C A TTAAATGTCACAACACACATGAAGGGTCCAGCACACAACTAGCAGGAACTAGGTGTTTAAGCAAT
7308 IS [AC] AACAGGTGCAATTGCTTAAACACCTAGTTCCTGCTAGTTGTGTGCTGGAC[AC]CTTCATGTGTGTTGTGACATTTAAACATCAAGTGACCCTCTGAAGTGGAT
7309 I A AGGCAGTTCTCCAATTGAACTTTAAAACAATCCAGTTAATATAGTTTCT
7309 P INS A CGCGCCGAGGATTACTCTAGCTTCTCTTACTTTGACY
7309 P DEL A CGCGCCGAGGATACTCTAGCTTCTCTTACTTTGACCY
7309 T INS A ATTTGGTCAAAGTAAGAGAAGCTAGAGTAATGAAACTATATTAACTGGATTGTTTTAAAGTTCAATTGGAGAACTGCCT
7309 T DEL A ATTTGGTCAAAGTAAGAGAAGCTAGAGTATGAAACTATATTAACTGGATTGTTTTAAAGTTCAATTGGAGAACTGCCT
7309 IS [T-] AGGCAGTTCTCCAATTGAACTTTAAAACAATCCAGTTAATATAGTTTCAT[T-]ACTCTAGCTTCTCTTACTTTGACCAAATCCATTCTTTATTTCACTTCTCA
7331 I S GCAGCCAGCTCCATGGATGGACAGACAGAT
7331 P T S CGCGCCGAGGAAGAGGGACAAATGAATAAGAATGA
7331 P G S CGCGCCGAGGCAGAGGGACAAATGAATAAGAATGA
7331 T T S AGCCTCATTCTTATTCATTTGTCCCTCTTTCTGTCTGTCCATCCATGGAGCTGGCTGCTC
7331 T G S AGCCTCATTCTTATTCATTTGTCCCTCTGTCTGTCTGTCCATCCATGGAGCTGGCTGCTC
7331 IS [TG] GTCACTTGCTGTTTGTATCTCAAGCCTCATTCTTATTCATTTGTCCCTCT[TG]TCTGTCTGTCCATCCATGGAGCTGGCTGCTCCTTCTCATGATACTGTTCC
7353 I S GCAGTTCCCCTGTCCCTGAACACCAACCT
7353 P G S CGCGCCGAGGCGTTAGGGAACTCCTGTTTAC
7353 P C S CGCGCCGAGGGGTTAGGGAACTCCTGTTTAC
7353 T G S ATGGGTAAACAGGAGTTCCCTAACGGGTTGGTGTTCAGGGACAGGGGAACTGCGC
7353 T C S ATGGGTAAACAGGAGTTCCCTAACCGGTTGGTGTTCAGGGACAGGGGAACTGCGC
AGGTCCAGTCTTTGATCTAGGCACTGATGGGTAAACAGGAGTTCCCTAAC[GC]GGTTGGTGTTCAGGGACAGGGGAACTGCGCACACGTAAGACTTGAAGT
7353 IS [GC] GG
7364 I A GCACCAGCGCTGGCTTCTCTGCACT
7364 P C A CGCGCCGAGGCCCCTGTGGGCACA
7364 P A A CGCGCCGAGGACCCTGTGGGCACA
7364 T C A CTGCTGTGCCCACAGGGGGTGCAGAGAAGCCAGCGCTGGTGCCA
7364 T A A CTGCTGTGCCCACAGGGTGTGCAGAGAAGCCAGCGCTGGTGCCA
GCCTCCTCCTGCCTGCTCGTTCCCTGGCACCAGCGCTGGCTTCTCTGCAC[CA]CCCTGTGGGCACAGCAGGCACAAGGATAATGAGGCTGTTTGGGTGGG
7364 IS [CA] CTT
7370 I A CAGGACCCATCCGTGCAGAGCCCTTA
7370 P C A CGCGCCGAGGCCCCACACCAGCCA
7370 P T A CGCGCCGAGGTCCCACACCAGCCAG
7370 T C A AGGCCTGGCTGGTGTGGGGAAGGGCTCTGCACGGATGGGTCCTGGG
7370 T T A AGGCCTGGCTGGTGTGGGAAAGGGCTCTGCACGGATGGGTCCTGGG
TGTGGATGACAGGCTCCGAGGTCCCCAGGACCCATCCGTGCAGAGCCCTT[CT]CCCACACCAGCCAGGCCTGGGACCAGGTGTGCAGACCAAGGAGGTC
7370 IS [CT] CTGG
7376 I S CACAGAGCCCAGGGTGACAAAAGTCTGAAGTCCA
7376 P A S CGCGCCGAGGTGCAGAGGACTGGGCY
7376 P G S CGCGCCGAGGCGCAGAGGACTGGGCY
7376 T A S AGCAGCCCAGTCCTCTGCAGGACTTCAGACTTTTGTCACCCTGGGCTCTGTGCC
7376 T G S AGCAGCCCAGTCCTCTGCGGGACTTCAGACTTTTGTCACCCTGGGCTCTGTGCC
CCCGCTAACAAAGCCCCAGCAGCCAGGCCACCAGCAGCCCAGTCCTCTGC[AG]GGACTTCAGACTTTTGTCACCCTGGGCTCTGTGCCCCAAACACACCTG
7376 IS [AG] GA
7380 I S CGCACAGAATGGAGGTCAGGCACACTGGT
7380 P G S CGCGCCGAGGCTCAACGAACAGACCTGAG
7380 P C S CGCGCCGAGGGTCAACGAACAGACCTGAG
7380 T G S TCTTCTCAGGTCTGTTCGTTGAGCCAGTGTGCCTGACCTCCATTCTGTGCGGG
7380 T C S TCTTCTCAGGTCTGTTCGTTGACCCAGTGTGCCTGACCTCCATTCTGTGCGGG
TAACATATTAAAAATTATTTACACGCAGTCTTCTCAGGTCTGTTCGTTGA[GC]CCAGTGTGCCTGACCTCCATTCTGTGCGGGGTAAAGGATGGCTGCCACC
7380 IS [GC] A
7465 I A GTCTGCGCTATACAAACAAGAGACTCTTAAGGCGATTAGCCT
7465 P C A CGCGCCGAGGCGGGCTGCTGTGAGT
7465 P A A CGCGCCGAGGAGGGCTGCTGTGAGTT
7465 T C A CAGAAACTCACAGCAGCCCGGGCTAATCGCCTTAAGAGTCTCTTGTTTGTATAGCGCAGACTC
7465 T A A CAGAAACTCACAGCAGCCCTGGCTAATCGCCTTAAGAGTCTCTTGTTTGTATAGCGCAGACTC
CCAAGTCGAGTCTGCGCTATACAAACAAGAGACTCTTAAGGCGATTAGCC[CA]GGGCTGCTGTGAGTTTCTGTCTGCTCCCCTCCCCGTGGGCACCTGGGA
7465 IS [CA] GC
7484 I S CGTCCCACAGACATTCTCTTCCCAAAGGCCCA
7484 P A S CGCGCCGAGGTGGAGCACAGCACTGT
7484 P G S CGCGCCGAGGCGGAGCACAGCACTG
7484 T A S GTGTACAGTGCTGTGCTCCAGGGCCTTTGGGAAGAGAATGTCTGTGGGACGCC
7484 T G S GTGTACAGTGCTGTGCTCCGGGGCCTTTGGGAAGAGAATGTCTGTGGGACGCC

FIGURE 129E

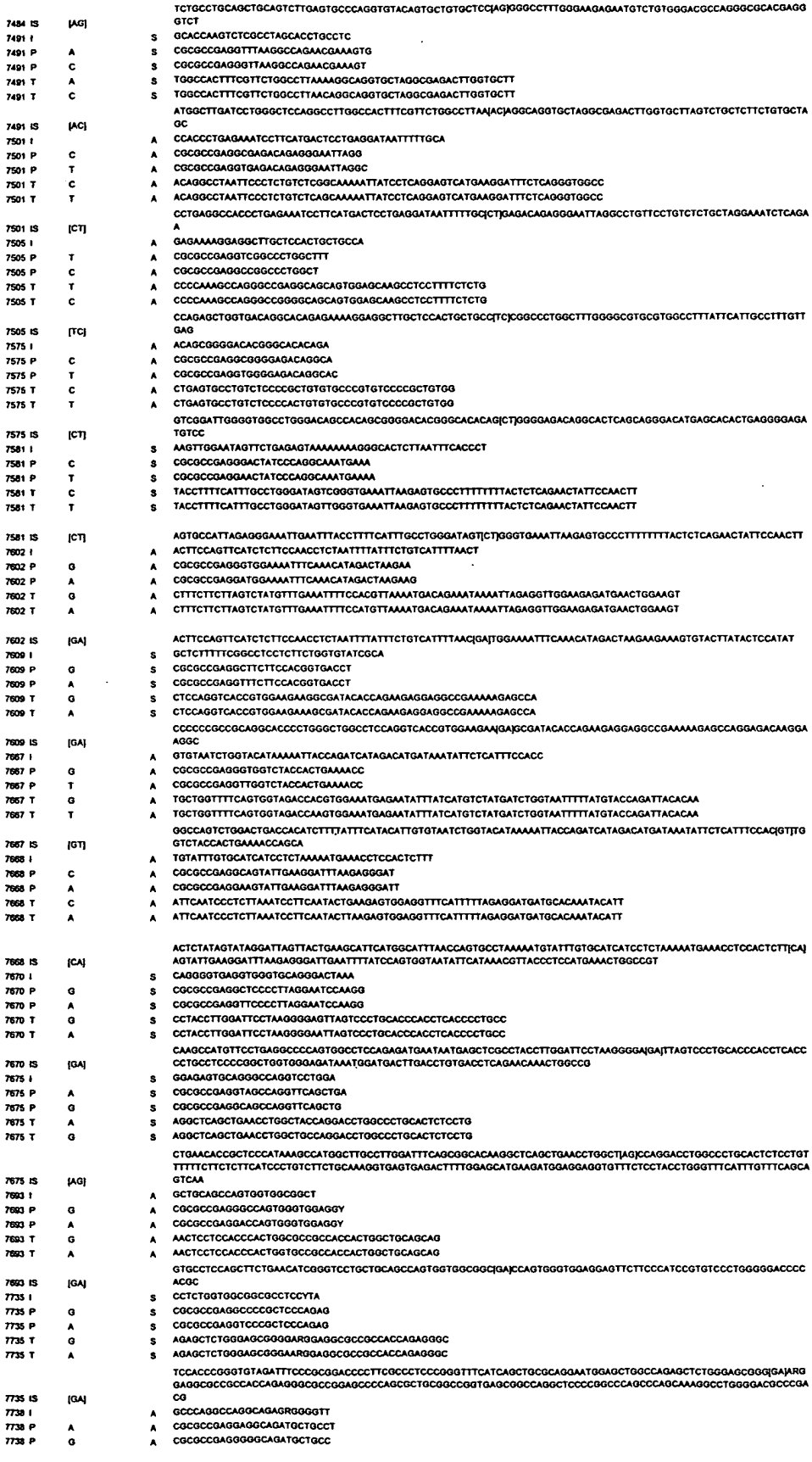


FIGURE 129E


7738 T A A CCCTAGGCAGCATCTGCCTACCCCYCTCTGCCTGGCCTGGGCCG
7738 T G A CCCTAGGCAGCATCTGCCCACCCCYCTCTGCCTGGCCTGGGCCG
GAACCCTCTTGCAGGCCCAGCCGTTGGGCCCTGGAGGAGTGAACGGCCCAGGCCAGGCAGAGRGGGGT[AG]GGCAGATGCTGCCTAGGGGTCTAGAGA
CCATAGCACACATGCCAGCTCAGGAGATGCCCTGCCTTTAAYTCAGCAGCCAGACCCCTGCCTCCCACCTTGAACTGTGCTTAACAAGGCATCCCTGAGGA
7738 IS [AG] GCC
14382 I S GCTGTGGGAGAGGCCGACTCTCCCA
14382 P A S CGCGCCGAGGTGTGACCTTCAGCAGCAY
14382 P G S CGCGCCGAGGCGTGACCTTCAGCAGCY
14382 T A S AAGGTGCTGCTGAAGGTCACAGGGAGAGTCGGCCTCTCCCACAGCCT
14382 T G S AAGGTGCTGCTGAAGGTCACGGGGAGAGTCGGCCTCTCCCACAGCCT
GGGACAAGATAACCATCTTTGGGCGAGAGTCCCTGGGAGATAGGAAGGTGCTGCTGAAGGTCAC[AG]GGGAGAGTCGGCCTCTCCCACAGCCTTGGCCAC
14382 IS [AG] AGGCCAGAGA
14384 I A AAACAGCCATCTACTGCCTTTTTCTCCTGGTAACA
14384 P C A CGCGCCGAGGCGTTAGCATTTCCTCTTGTCCY
14384 P T A CGCGCCGAGGTGTTAGCATTTCCTCTTGTCCY
14384 T C A GTGAGGACAAGAGGAAATGCTAACGGTTACCAGGAGAAAAAGGCAGTAGATGGCTGTTTGT
14384 T T A GTGAGGACAAGAGGAAATGCTAACAGTTACCAGGAGAAAAAGGCAGTAGATGGCTGTTTGT
14384 IS [CT] GTTGTTGATGGCAGTGGTGGTGAAGTGATAACAAACAGCCATCTACTGCCTTTTTCTCCTGGTAAC[CT]GTTAGCATTTCCTCTTGTCCTCACTAGACTTCC
14385 I A GCATCCTCCCCTTGACTGGGGGGAAAACA
14385 P C A CGCGCCGAGGCGAGGCGCAGGGCY
14385 P T A CGCGCCGAGGTGAGGCGCAGGGCY
14385 T C A CACAGCCCTGCGCCTCGGTTTTCCCCCCAGTCAAGGGGAGGATGCCA
14385 T T A CACAGCCCTGCGCCTCAGTTTTCCCCCCAGTCAAGGGGAGGATGCCA
14385 IS [CT] CCTTCCTGGCATCCTCCCCTTGACTGGGGGGAAAAC[CT]GAGGCGCAGGGCTGTGTCAAGTGAC
14423 I A GCCACCATGCTCAGCCAGAAATGTCATTTTTAATGGATATATCATGACTATTT
14423 P G A CGCGCCGAGGGTAGAGCCAGTAGGCTAATTACY
14423 P C A CGCGCCGAGGCTAGAGCCAGTAGGCTAATTACAY
14423 T G A TACATGTAATTAGCCTACTGGCTCTACAATAGTCATGATATATCCATTAAAAATGACATTTCTGGCTGAGCATGGTGGCTC
14423 T C A TACATGTAATTAGCCTACTGGCTCTAGAATAGTCATGATATATCCATTAAAAATGACATTTCTGGCTGAGCATGGTGGCTC
CCAAAGTGCTGAGATTATAGGCATGAGCCACCATGCTCAGCCAGAAATGTCATTTTTAATGGATATATCATGACTATT[GC]TAGAGCCAGTAGGCTAATTACA
TGTATTTTGTCCATGTCTTCTTTTAGTCTGGTGAGCCCACCATCGTTTTCCCCTGAATTCCTTGGACAGGGCAAACTCTGGGAGCCACCCACCCCACTTACA
14423 IS [GC] GTTTCA
14472 I S AGGCTGGCGTCTTCTGACTGATGTGAGAATAAGCATGT
14472 P G S CGCGCCGAGGCAGAGTCTTGCTTTTAACACAGY
14472 P T S CGCGCCGAGGAAGAGTCTTGCTTTTAACACAGGY
14472 T G S TTTACCTGTGTTAAAAGCAAGACTCTGCATGCTTATTCTCACATCAGTCAGAAGACGCCAGCCTGT
14472 T T S TTTACCTGTGTTAAAAGCAAGACTCTTCATGCTTATTCTCACATCAGTCAGAAGACGCCAGCCTGT
14472 IS [GT] GCGCATCTGGTTCTGCTTGTCTGGTTTACCTGTGTTAAAAGCAAGACTCT[GT]CATGCTTATTCTCACATCAGTCAGAAGACGCCAGCCTGTTGTTTTTCAGA
14478 I A AGGAAGGGAGGGTCTTGATGGGATAGCCATGAAA
14478 P c A CGCGCCGAGGCGGATCTTGGATTGATCCTGY
14478 P t A CGCGCCGAGGTGGATCTTGGATTGATCCTGY
14478 T c A TCCCCAGGATCAATCCAAGATCCGTTCATGGCTATCCCATCAAGACCCTCCCTTCCTCT
14478 T t A TCCCCAGGATCAATCCAAGATCCATTCATGGCTATCCCATCAAGACCCTCCCTTCCTCT
GATGGGCTTGGAGGGAGAGGAAGGGAGGGTCTTGATGGGATAGCCATGAA[CT]GGATCTTGGATTGATCCTGGGGACAAGAAAACCATGAGGGTTTGTT
14478 IS [CT] ATG
14866 I S TGGTCAACATGGTGAAGCCCCATCTCTATTAAAAATATAAAAAATTAGCCT
14866 P C S CGCGCCGAGGGGACATGGTGGTGCAC
14866 P T S CGCGCCGAGGAGACATGGTGGTGCACA
14866 T C S CAGGTGTGCACCACCATGTCCGGCTAATTTTTTATATTTTTAATAGAGATGGGGCTTCACCATGTTGACCA
14866 T T S CAGGTGTGCACCACCATGTCTGGCTAATTTTTTATATTTTTAATAGAGATGGGGCTTCACCATGTTGACCA
14866 IS [CT]
14876 I A GATTTGGACTGATTAAAAATAGCCACTCAGGAGAAAAACAGGGCTAGAT
14876 P G A CGCGCCGAGGGCCTGTGCTGCCATTT
14876 P A A CGCGCCGAGGACCTGTGCTGCCATTTTC
14876 T G A AGAAGAAAATGGCAGCACAGGCTCTAGCCCTGTTTTTCTCCTGAGTGGCTATTTTTAATCAGTCCAAATCAG
14876 T A A AGAAGAAAATGGCAGCACAGGTTCTAGCCCTGTTTTTCTCCTGAGTGGCTATTTTTAATCAGTCCAAATCAG
14876 IS [GA]
14881 I S CTTTCCATATCTGGAAAACAGAGATTATAGTAACCACCTTATAGTGTTTCT
14881 P T S CGCGCCGAGGATGAGAAATAAATGAGCTCTTACCT
14881 P C S CGCGCCGAGGGTGAGAAATAAATGAGCTCTTACCT
14881 T T S TTCCAGGTAAGAGCTCATTTATTTCTCATGAAACACTATAAGGTGGTTACTATAATCTCTGTTTTCCAGATATGGAAAG
14881 T C S TTCCAGGTAAGAGCTCATTTATTTCTCACGAAACACTATAAGGTGGTTACTATAATCTCTGTTTTCCAGATATGGAAAG
14881 IS [TC]
14902 I A CCTTTGCCTCCTGCTATGAATTTTTCAAAGCGTTTTTCAAATCCATTCTTT
14902 P A A CGCGCCGAGGACCCCTGATCAGCATCTC
14902 P G A CGCGCCGAGGGCCCCTGATCAGCATC
14902 T A A AATGGAGATGCTGATCAGGGGTAAGAATGGATTTGAAAAACGCTTTGAAAAATTCATAGCAGGAGGCAAAGG
14902 T G A AATGGAGATGCTGATCAGGGGCAAGAATGGATTTGAAAAACGCTTTGAAAAATTCATAGCAGGAGGCAAAGG
14902 IS [AG]
14903 I A GCTGCTATCCAACAGGGTGCAAGTAATCCCCCT
14903 P C A CGCGCCGAGGCTTACACACACTAAGAACCCAG
14903 P A A CGCGCCGAGGATTACACACACTAAGAACCCAG
14903 T C A CACCCTGGGTTCTTAGTGTGTGTAAGGGGGGATTACTTGCACCCTGTTGGATAGCAGCCC
14903 T A A CACCCTGGGTTCTTAGTGTGTGTAATGGGGGATTACTTGCACCCTGTTGGATAGCAGCCC
14903 IS [CA]
14904 I A CCCCTGCTACTGGGGGGACCCTCT
14904 P A A CGCGCCGAGGAACTGCACCAAAGGACC
14904 P C A CGCGCCGAGGCACTGCACCAAAGGACC
14904 T A A TTGCGGTCCTTTGGTGCAGTTGAGGGTCCCCCCAGTAGCAGGGGCA
14904 T C A TTGCGGTCCTTTGGTGCAGTGGAGGGTCCCCCCAGTAGCAGGGGCA
14904 IS [AC]
14925 I S GGACACTTGGTCTGGCCCCATGGCTGT
14925 P C S CGCGCCGAGGGGTCTCCATGTCATCTCCC
14925 P T S CGCGCCGAGGAGTCTCCATGTCATCTCCC
14925 T C S TCTGGGGAGATGACATGGAGACCCAGCCATGGGGCCAGACCAAGTGTCCCT
14925 T T S TCTGGGGAGATGACATGGAGACTCAGCCATGGGGCCAGACCAAGTGTCCCT
14925 IS [CT]
14934 I S GGGCCTCGTCTGGCCCTCGACTGT
14934 P C S CGCGCCGAGGGCTCTGCATGCCAGGY
14934 P T S CGCGCCGAGGACTCTGCATGCCAGGTY
14934 T C S TAAGACCTGGCATGCAGAGCCAGTCGAGGGCCAGACGAGGCCCTT
14934 T T S TAAGACCTGGCATGCAGAGTCAGTCGAGGGCCAGACGAGGCCCTT
14934 IS [CT]
14951 I S AGAATTGGAATGGACATCGCTGGTACTTGAGCCCATATTGT
14951 P C S CGCGCCGAGGGTACCTTGGCCCATGG
14951 P G S CGCGCCGAGGCTACCTTGGCCCATGG
14951 T C S GACCCCATGGGCCAAGGTACCAATATGGGCTCAAGTACCAGCGATGTCCATTCCAATTCTAC

FIGURE 129E

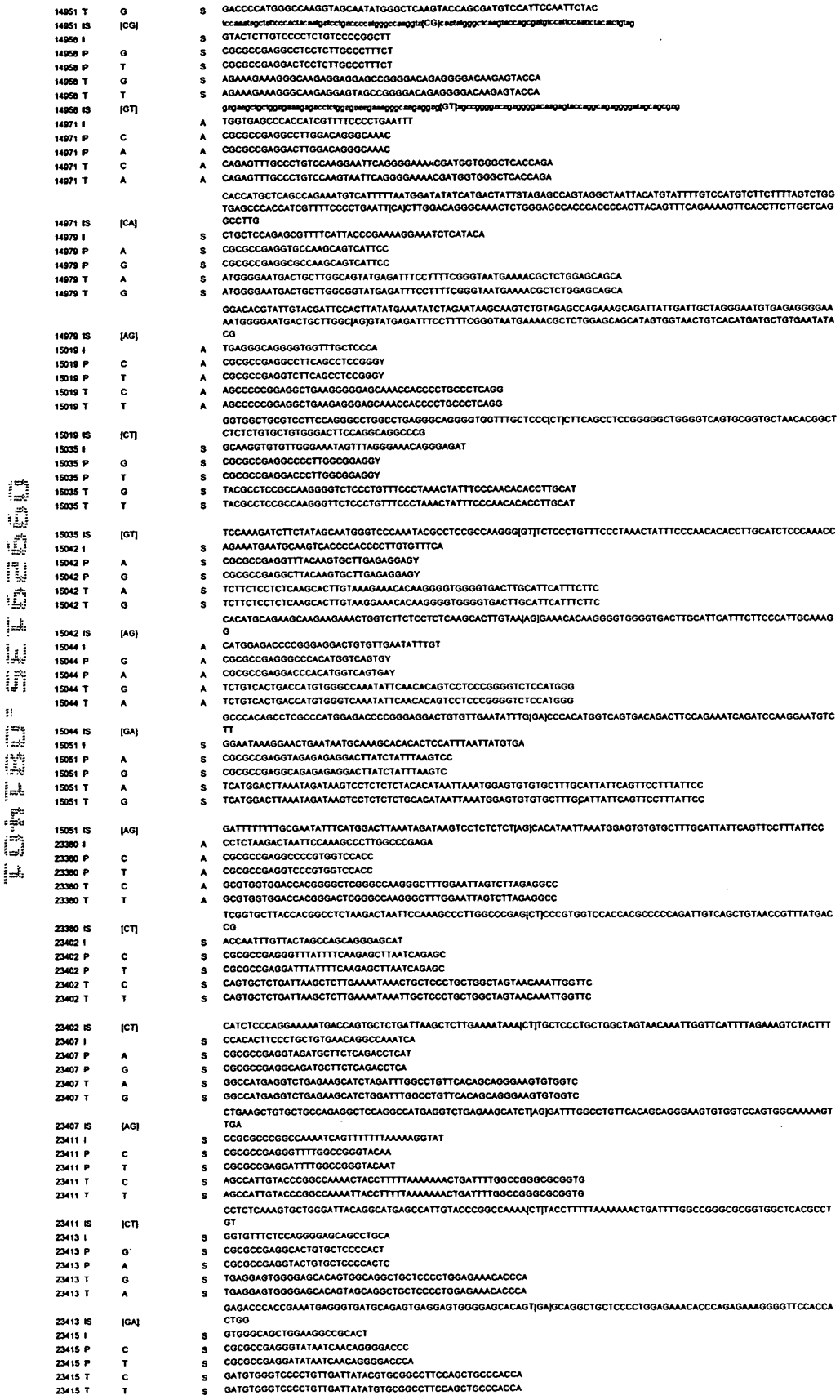

14951 T G S GACCCCATGGGCCAAGGTAGCAATATGGGCTCAAGTACCAGCGATGTCCATTCCAATTCTAC
14951 IS [CG] tccaaatagctatcccactacaatgatcctgacccctgggccaaggta[CG]caatatgggctcaagtaccagcgatgtccattccaattctactatctgtag
14958 I S GTACTCTTGTCCCCTCTGTCCCCGGCTT
14958 P G S CGCGCCGAGGCCTCCTCTTGCCCTTTCT
14958 P T S CGCGCCGAGGACTCCTCTTGCCCTTTCT
14958 T G S AGAAAGAAAGGGCAAGAGGAGGAGCCGGGGACAGAGGGGACAAGAGTACCA
14958 T T S AGAAAGAAAGGGCAAGAGGAGTAGCCGGGGACAGAGGGGACAAGAGTACCA
14958 IS [GT] gagaagctgctggaggaaagagacctctggaggaaagaaggcaagaggag[GT]agccgggacagaggggacaagagtaccaggcagaggggatagcagcgag
14971 I A TGGTGAGCCCACCATCGTTTTCCCCTGAATTT
14971 P C A CGCGCCGAGGCCTTGGACAGGGCAAAC
14971 P A A CGCGCCGAGGACTTGGACAGGGCAAAC
14971 T C A CAGAGTTTGCCCTGTCCAAGGAATTCAGGGGAAAACGATGGTGGGCTCACCAGA
14971 T A A CAGAGTTTGCCCTGTCCAAGTAATTCAGGGGAAAACGATGGTGGGCTCACCAGA
14971 IS [CA] CACCATGCTCAGCCAGAAATGTCATTTTTAATGGATATATCATGACTATTSTAGAGCCAGTAGGCTAATTACATGTATTTTGTCCATGTCTTCTTTTAGTCTGG TGAGCCCACCATCGTTTTCCCCTGAATT[CA]CTTGGACAGGGCAAACTCTGGGAGCCACCCACCCCACTTACAGTTTCAGAAAAGTTCACCTTCTTGCTCAG GCCTTG
14979 I S CTGCTCCAGAGCGTTTTCATTACCCGAAAAGGAAATCTCATACA
14979 P A S CGCGCCGAGGTGCCAAGCAGTCATTCC
14979 P G S CGCGCCGAGGCGCCAAGCAGTCATTCC
14979 T A S ATGGGGAATGACTGCTTGGCAGTATGAGATTTCCTTTTCGGGTAATGAAAACGCTCTGGAGCAGCA
14979 T G S ATGGGGAATGACTGCTTGGCGGTATGAGATTTCCTTTTCGGGTAATGAAAACGCTCTGGAGCAGCA
14979 IS [AG] GGACACGTATTGTACGATTCCACTTATATGAAATATCTAGAATAAGCAAGTCTGTAGAGCCAGAAAGCAGATTATTGATTGCTAGGGAATGTGAGAGGGGAA AATGGGGAATGACTGCTTGGC[AG]GTATGAGATTTCCTTTTCGGGTAATGAAAACGCTCTGGAGCAGCATAGTGGTAACTGTCACATGATGCTGTGAATATA CG
15019 I A TGAGGGCAGGGGTGGTTTGCTCCCA
15019 P C A CGCGCCGAGGCCTTCAGCCTCCGGGY
15019 P T A CGCGCCGAGGTCTTCAGCCTCCGGGY
15019 T C A AGCCCCCGGAGGCTGAAGGGGGAGCAAACCACCCCTGCCCTCAGG
15019 T T A AGCCCCCGGAGGCTGAAGAGGGAGCAAACCACCCCTGCCCTCAGG
15019 IS [CT] GGTGGCTGCGTCCTTCCAGGGCCTGGCCTGAGGGCAGGGGTGGTTTGCTCCC[CT]CTTCAGCCTCCGGGGGCTGGGGTCAGTGCGGTGCTAACACGGCT CTCTCTGTGCTGTGGGACTTCCAGGCAGGCCCG
15035 I S GCAAGGTGTGTTGGGAAATAGTTTAGGGAAACAGGGAGAT
15035 P G S CGCGCCGAGGCCCCTTGGCGGAGGY
15035 P T S CGCGCCGAGGACCCTTGGCGGAGGY
15035 T G S TACGCCTCCGCCAAGGGGTCTCCCTGTTTCCCTAAACTATTTCCCAACACACCTTGCAT
15035 T T S TACGCCTCCGCCAAGGGTTCTCCCTGTTTCCCTAAACTATTTCCCAACACACCTTGCAT
15035 IS [GT] TCCAAAGATCTTCTATAGCAATGGGTCCCAAATACGCCTCCGCCAAGGG[GT]TCTCCCTGTTTCCCTAAACTATTTCCCAACACACCTTGCATCTCCCAAACC
15042 I S AGAAATGAATGCAAGTCACCCCACCCCTTGTGTTTCA
15042 P A S CGCGCCGAGGTTTACAAGTGCTTGAGAGGAGY
15042 P G S CGCGCCGAGGCTTACAAGTGCTTGAGAGGAGY
15042 T A S TCTTCTCCTCTCAAGCACTTGTAAAGAAACACAAGGGGTGGGGTGACTTGCATTCATTTCTTC
15042 T G S TCTTCTCCTCTCAAGCACTTGTAAGGAAACACAAGGGGTGGGGTGACTTGCATTCATTTCTTC
15042 IS [AG] CACATGCAGAAGCAAGAAGAAACTGGTCTTCTCCTCTCAAGCACTTGTAA[AG]GAAACACAAGGGGTGGGGTGACTTGCATTCATTTCTTCCCATTGCAAAG G
15044 I A CATGGAGACCCCGGGAGGACTGTGTTGAATATTTGT
15044 P G A CGCGCCGAGGGCCCACATGGTCAGTGY
15044 P A A CGCGCCGAGGACCCACATGGTCAGTGAY
15044 T G A TCTGTCACTGACCATGTGGGCCAAATATTCAACACAGTCCTCCCGGGGTCTCCATGGG
15044 T A A TCTGTCACTGACCATGTGGGTCAAATATTCAACACAGTCCTCCCGGGGTCTCCATGGG
15044 IS [GA] GCCCACAGCCTCGCCCATGGAGACCCCGGGAGGACTGTGTTGAATATTTG[GA]CCCACATGGTCAGTGACAGACTTCCAGAAATCAGATCCAAGGAATGTC TT
15051 I S GGAATAAAGGAACTGAATAATGCAAAGCACACACTCCATTTAATTATGTGA
15051 P A S CGCGCCGAGGTAGAGAGAGGACTTATCTATTTAAGTCC
15051 P G S CGCGCCGAGGCAGAGAGAGGACTTATCTATTTAAGTC
15051 T A S TCATGGACTTAAATAGATAAGTCCTCTCTCTACACATAATTAAATGGAGTGTGTGCTTTGCATTATTCAGTTCCTTTATTCC
15051 T G S TCATGGACTTAAATAGATAAGTCCTCTCTCTGCACATAATTAAATGGAGTGTGTGCTTTGCATTATTCAGTTCCTTTATTCC
15051 IS [AG] GATTTTTTTTGCGAATATTTCATGGACTTAAATAGATAAGTCCTCTCTCT[AG]CACATAATTAAATGGAGTGTGTGCTTTGCATTATTCAGTTCCTTTATTCC
23380 I A CCTCTAAGACTAATTCCAAAGCCCTTGGCCCGAGA
23380 P C A CGCGCCGAGGCCCCGTGGTCCACC
23380 P T A CGCGCCGAGGTCCCGTGGTCCACC
23380 T C A GCGTGGTGGACCACGGGGCTCGGGCCAAGGGCTTTGGAATTAGTCTTAGAGGCC
23380 T T A GCGTGGTGGACCACGGGACTCGGGCCAAGGGCTTTGGAATTAGTCTTAGAGGCC
23380 IS [CT] TCGGTGCTTACCACGGCCTCTAAGACTAATTCCAAAGCCCTTGGCCCGAG[CT]CCCGTGGTCCACCACGCCCCCAGATTGTCAGCTGTAACCGTTTATGAC CG
23402 I S ACCAATTTGTTACTAGCCAGCAGGGAGCAT
23402 P C S CGCGCCGAGGGTTTATTTTCAAGAGCTTAATCAGAGC
23402 P T S CGCGCCGAGGATTTATTTTCAAGAGCTTAATCAGAGC
23402 T C S CAGTGCTCTGATTAAGCTCTTGAAAATAAACTGCTCCCTGCTGGCTAGTAACAAATTGGTTC
23402 T T S CAGTGCTCTGATTAAGCTCTTGAAAATAAATTGCTCCCTGCTGGCTAGTAACAAATTGGTTC
23402 IS [CT] CATCTCCCAGGAAAAATGACCAGTGCTCTGATTAAGCTCTTGAAAATAAA[CT]TGCTCCCTGCTGGCTAGTAACAAATTGGTTCATTTTAGAAAGTCTACTTT
23407 I S CCACACTTCCCTGCTGTGAACAGGCCAAATCA
23407 P A S CGCGCCGAGGTAGATGCTTCTCAGACCTCAT
23407 P G S CGCGCCGAGGCAGATGCTTCTCAGACCTCA
23407 T A S GGCCATGAGGTCTGAGAAGCATCTAGATTTGGCCTGTTCACAGCAGGGAAGTGTGGTC
23407 T G S GGCCATGAGGTCTGAGAAGCATCTGGATTTGGCCTGTTCACAGCAGGGAAGTGTGGTC
23407 IS [AG] CTGAAGCTGTGCTGCCAGAGGCTCCAGGCCATGAGGTCTGAGAAGCATCT[AG]GATTTGGCCTGTTCACAGCAGGGAAGTGTGGTCCAGTGGCAAAAAGT TGA
23411 I S CCGCGCCCGGCCAAAATCAGTTTTTTTAAAAAGGTAT
23411 P C S CGCGCCGAGGGTTTTGGCCGGGTACAA
23411 P T S CGCGCCGAGGATTTTGGCCGGGTACAAT
23411 T C S AGCCATTGTACCCGGCCAAAACTACCTTTTTAAAAAAACTGATTTTGGCCGGGCGCGGTG
23411 T T S AGCCATTGTACCCGGCCAAAATTACCTTTTTAAAAAAACTGATTTTGGCCGGGCGCGGTG
23411 IS [CT] CCTCTCAAAGTGCTGGGATTACAGGCATGAGCCATTGTACCCGGCCAAAA[CT]TACCTTTTTAAAAAAACTGATTTTGGCCGGGCGCGGTGGCTCACGCCT GT
23413 I S GGTGTTTCTCCAGGGGAGCAGCCTGCA
23413 P G S CGCGCCGAGGCACTGTGCTCCCCACT
23413 P A S CGCGCCGAGGTACTGTGCTCCCCACTC
23413 T G S TGAGGAGTGGGGAGCACAGTGGCAGGCTGCTCCCCTGGAGAAACACCCA
23413 T A S TGAGGAGTGGGGAGCACAGTAGCAGGCTGCTCCCCTGGAGAAACACCCA
23413 IS [GA] GAGACCCACCGAAATGAGGGTGATGCAGAGTGAGGAGTGGGGAGCACAGT[GA]GCAGGCTGCTCCCCTGGAGAAACACCCAGAGAAAGGGGTTCCACCA CTGG
23415 I S GTGGGCAGCTGGAAGGCCGCACT
23415 P C S CGCGCCGAGGGTATAATCAACAGGGGACCC
23415 P T S CGCGCCGAGGATATAATCAACAGGGGACCCA
23415 T C S GATGTGGGTCCCCTGTTGATTATACGTGCGGCCTTCCAGCTGCCCACCA
23415 T T S GATGTGGGTCCCCTGTTGATTATATGTGCGGCCTTCCAGCTGCCCACCA

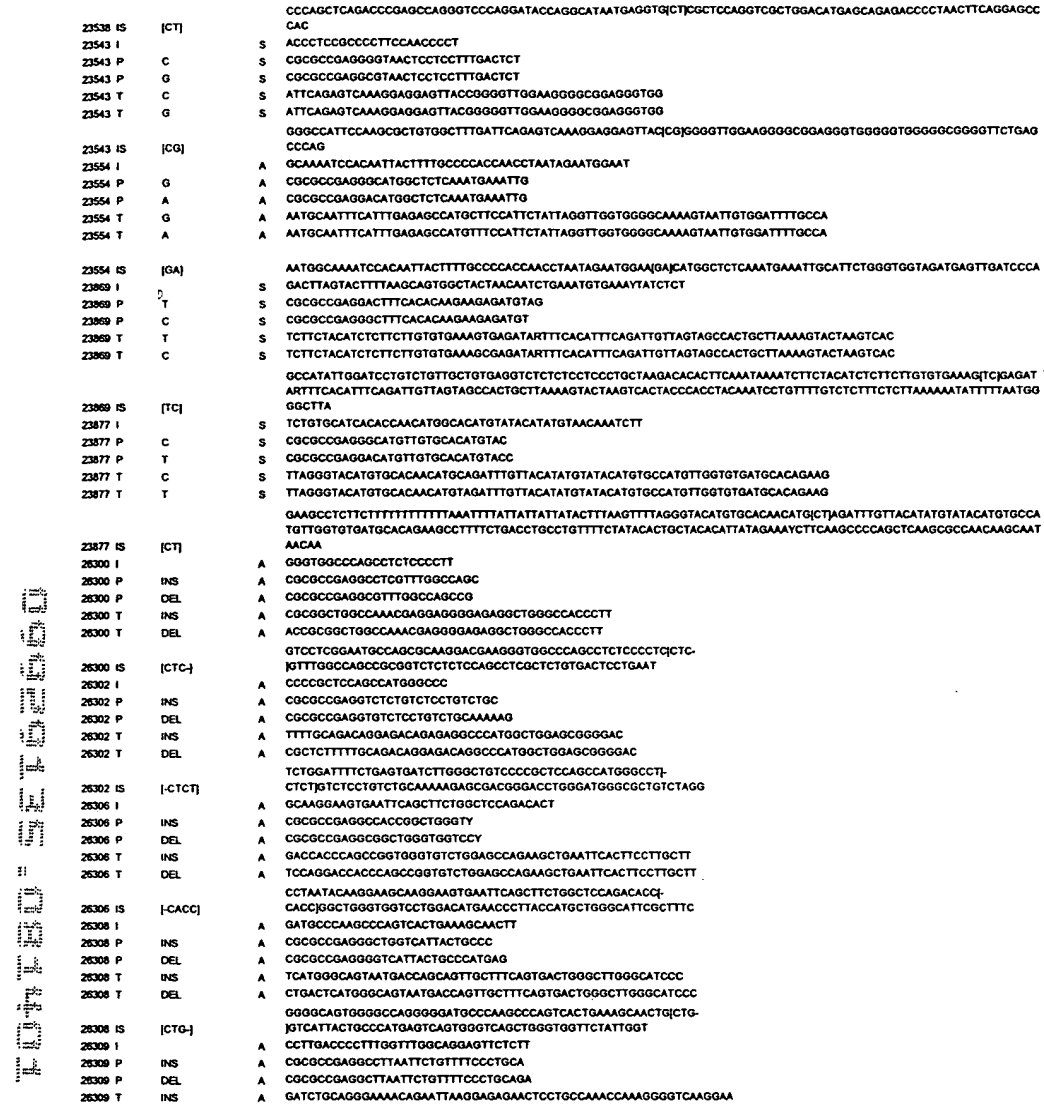
FIGURE 129E

			CTGGTTTTGGCTAAGATCTCCCCTTTGATGTGGGTCCCCTGTTGATTATA[CT]GTGCGGCCTTCCAGCTGCCCACCATCACAGCTACAGCTCGCTCCCCTTG
23415 IS	[CT]		G
23416 I		A	GTGTGAAAGCAGTCTGTATTAGTCCATTTTCACACTGCTTTAGAGAAGTAA
23416 P	C	A	CGCGCCGAGGCCAGAGACTGGGTAATTGTTG
23416 P	T	A	CGCGCCGAGGTCAGAGACTGGGTAATTGTTGA
23416 T	C	A	TTCTTCAACAATTACCCAGTCTCTGGTACTTCTCTAAAGCAGTGTGAAAATGGACTAATACAGACTGCTTTCACAC
23416 T	T	A	TTCTTCAACAATTACCCAGTCTCTGATACTTCTCTAAAGCAGTGTGAAAATGGACTAATACAGACTGCTTTCACAC
23416 IS	[CT]		GTGTGAAAGCAGTCTGTATTAGTCCATTTTCACACTGCTTTAGAGAAGTA[CT]CAGAGACTGGGTAATTGTTGAAGAAAAGAGGTTTAACTGACTCACAGTTC
23417 I		A	CCCAGCAGCCCTGGGGGACAGTGT
23417 P	C	A	CGCGCCGAGGCAAGGCATCTACACAGGGY
23417 P	G	A	CGCGCCGAGGGAAGGCATCTACACAGGGTY
23417 T	C	A	CTGCACCCTGTGTAGATGCCTTGCACTGTCCCCCAGGGCTGCTGGGCA
23417 T	G	A	CTGCACCCTGTGTAGATGCCTTCCACTGTCCCCCAGGGCTGCTGGGCA
			AGGGGACAAGAGGCCAGCCAGGGGGTGCCCAGCAGCCCTGGGGGACAGTG[CG]AAGGCATCTACACAGGGTGCAGGACAGGCAGGCCTCTCACAGAGG
23417 IS	[CG]		TCCAG
23418 I		A	TACGGAGTGACACTCTGTCTCCAAAAAAAAAAAAAAAAAAATACAGTGTCCA
23418 P	C	A	CGCGCCGAGGCACATCACCTTCTTGAGTCC
23418 P	T	A	CGCGCCGAGGTACATCACCTTCTTGAGTCCA
23418 T	C	A	TAGGTGGACTCAAGAAGGTGATGTGGGACACTGTATTTTTTTTTTTTTTTTTTTGGAGACAGAGTGTCACTCCGTA
23418 T	T	A	TAGGTGGACTCAAGAAGGTGATGTAGGACACTGTATTTTTTTTTTTTTTTTTTGGAGACAGAGTGTCACTCCGTA
23418 IS	[CT]		TACGGAGTGACACTCTGTCTCCAAAAAAAAAAAAAAAAAAATACAGTGTCC[CT]ACATCACCTTCTTGAGTCCACCTATGGCTGATTAGACCAGGATGGACACC
23419 I		S	GGCTCTAGGCTGAGCCTGGGCCACT
23419 P	T	S	CGCGCCGAGGAGTGACAGAGCAGGGAGY
23419 P	G	S	CGCGCCGAGGCGTGACAGAGCAGGGAY
23419 T	T	S	TGAACTCCCTGCTCTGTCACTGTGGCCCAGGCTCAGCCTAGAGCCAA
23419 T	G	S	TGAACTCCCTGCTCTGTCACGGTGGCCCAGGCTCAGCCTAGAGCCAA
			CTTGGGGATCGGCTCCTTTTCCCTTTGCCCTGAACTCCCTGCTCTGTCAC[TG]GTGGCCCAGGCTCAGCCTAGAGCCAAGCAGGAGACCGGTGGGGGGGG
23419 IS	[TG]		TGT
23421 I		A	GAACCCAACAGAAAACATCCTACAGACTGGGAGAAAATTATGGAAAACTT
23421 P	A	A	CGCGCCGAGGATGGATCTGGAAGGGCTTY
23421 P	G	A	CGCGCCGAGGGTGGATCTGGAAGGGCTY
23421 T	A	A	TAAGAAGCCCTTCCAGATCCATAGTTTTCCATAATTTTCTCCCAGTCTGTAGGATGTTTTCTGTTGGGTTCA
23421 T	G	A	TAAGAAGCCCTTCCAGATCCACAGTTTTCCATAATTTTCTCCCAGTCTGTAGGATGTTTTCTGTTGGGTTCA
23421 IS	[AG]		TGAACCCAACAGAAAACATCCTACAGACTGGGAGAAAATTATGGAAAACT[AG]TGGATCTGGAAGGGCTTCTTATCTAACATATTCAAGAAACTAATGGTCCT
23424 I		S	GCCCAGATCTGTCTCTCTCCTCTCCACTTCCTTAGTA
23424 P	A	S	CGCGCCGAGGTCAGGTGCCCTTGAACC
23424 P	G	S	CGCGCCGAGGCCAGGTGCCCTTGAAC
23424 T	A	S	CAGAGGTTCAAGGGCACCTGAACTAAGGAAGTGGAGAGGAGAGAGACAGATCTGGGCTC
23424 T	G	S	CAGAGGTTCAAGGGCACCTGGACTAAGGAAGTGGAGAGGAGAGAGACAGATCTGGGCTC
			CACTCCTATCTGAGGACCAGACAGAGAGGCCAGAGGTTCAAGGGCACCTG[AG]ACTAAGGAAGTGGAGAGGAGAGAGACAGATCTGGGCTCCAGAGCCCC
23424 IS	[AG]		AGG
23436 I		S	GGGCTTCATGCCAGCTCACACAGGACCA
23436 P	A	S	CGCGCCGAGGTGGTAACGCTGCATCTTTC
23436 P	G	S	CGCGCCGAGGCGGTAACGCTGCATCTTT
23436 T	A	S	AAGGGAAAGATGCAGCGTTACCAGGTCCTGTGTGAGCTGGCATGAAGCCCGG
23436 T	G	S	AAGGGAAAGATGCAGCGTTACCGGGTCCTGTGTGAGCTGGCATGAAGCCCGG
			GCTTTGCCACCCTAAGAATCAAACAGGGAAGGGAAAGATGCAGCGTTACC[AG]GGTCCTGTGTGAGCTGGCATGAAGCCCGGGAGGTACCACCATGGAGG
23436 IS	[AG]		CAT
23439 I		A	CTGTGCGCACGCAGGGTCAGGGA
23439 P	T	A	CGCGCCGAGGTGTCCCGTTCCTGTGT
23439 P	C	A	CGCGCCGAGGCGTCCCGTTCCTGTGT
23439 T	T	A	GTGAACACAGGAACGGGACACCCTGACCCTGCGTGCGCACAGGC
23439 T	C	A	GTGAACACAGGAACGGGACGCCCTGACCCTGCGTGCGCACAGGC
			ATGGGCCTGGGTCAGACTGTTAGAATGCCTGTGCGCACGCAGGGTCAGGG[TC]GTCCCGTTCCTGTGTTCACGTGACCTCACGACACCATCTCTGTTCTCA
23439 IS	[TC]		GC
23445 I		S	GCTATGACCCGCAGCAAGATCCCCCTCAAA
23445 P	G	S	CGCGCCGAGGCAGGCAAGTCCAGCAG
23445 P	A	S	CGCGCCGAGGTAGGCAAGTCCAGCAGC
23445 T	G	S	GGTGGCTGCTGGACTTGCCTGTTGAGGGGGATCTTGCTGCGGGTCATAGCCA
23445 T	A	S	GGTGGCTGCTGGACTTGCCTATTGAGGGGGATCTTGCTGCGGGTCATAGCCA
			GAAATGTTCTCCTGAGTCCTTTCAATTCTTGGTGGCTGCTGGACTTGCCT[GA]TTGAGGGGGATCTTGCTGCGGGTCATAGCCACTCCTCTCATGGTGGGG
23445 IS	[GA]		AC
23456 I		A	GCAATGACGGGACGTGCCTTATACCTGCGA
23456 P	T	A	CGCGCCGAGGTTGAGGTGATGTGGTGTTG
23456 P	C	A	CGCGCCGAGGCTGAGGTGATGTGGTGTTG
23456 T	T	A	TTCCCAACACCACATCACCTCAACGCAGGTATAAGGCACGTCCCGTCATTGCCC
23456 T	C	A	TTCCCAACACCACATCACCTCAGCGCAGGTATAAGGCACGTCCCGTCATTGCCC
			TTTCTCAGCTCTAAAACGGGGGCAATGACGGGACGTGCCTTATACCTGCG[TC]TGAGGTGATGTGGTGTTGGGAAGTGGCCGGGGAGGTCGAAGAAGAAG
23456 IS	[TC]		CCG
23458 I		A	CCATTTCCAAAGTCTTTTAACATCCCTCCTGCATTTCCCAGATA
23458 P	C	A	CGCGCCGAGGCCTAATTGGATGAAGACAGACAG
23458 P	T	A	CGCGCCGAGGTCTAATTGGATGAAGACAGACAG
23458 T	C	A	TAATCTGTCTGTCTTCATCCAATTAGGATCTGGGAAATGCAGGAGGGATGTTAAAAGACTTTGGAAATGGGC
23458 T	T	A	TAATCTGTCTGTCTTCATCCAATTAGAATCTGGGAAATGCAGGAGGGATGTTAAAAGACTTTGGAAATGGGC
23458 IS	[CT]		AATAGGCCCATTTCCAAAGTCTTTTAACATCCCTCCTGCATTTCCCAGAT[CT]CTAATTGGATGAAGACAGACAGATTATGCAAAAGGCCTATCTGGTCAACC
23460 I		S	TGGCCTCCTTTGGCCATTCTAGCACCTCTAGAGA
23460 P	A	S	CGCGCCGAGGTCCAGCCTCAGTCAGTC
23460 P	G	S	CGCGCCGAGGCCCAGCCTCAGTCAGT
23460 T	A	S	GACTGACTGACTGAGGCTGGACTCTAGAGGTGCTAGAATGGCCAAAGGAGGCCAGT
23460 T	G	S	GACTGACTGACTGAGGCTGGGCTCTAGAGGTGCTAGAATGGCCAAAGGAGGCCAGT
			TCCATCACAGAGTATGTGGCTGCTGTATTGGACTGACTGACTGAGGCTGG[AG]CTCTAGAGGTGCTAGAATGGCCAAAGGAGGCCAGTGGGGAAGGCTCT
23460 IS	[AG]		GGT
23462 I		S	CCCTGGGCCACTGCCCCTTCCACT
23462 P	G	S	CGCGCCGAGGCAAGCTCTGTGGCCTTG
23462 P	C	S	CGCGCCGAGGGAAGCTCTGTGGCCTTG
23462 T	G	S	TTGGCAAGGCCACAGAGCTTGGTGGAAGGGGCAGTGGCCCAGGGTC
23462 T	C	S	TTGGCAAGGCCACAGAGCTTCGTGGAAGGGGCAGTGGCCCAGGGTC
			TTCCAGAACTCTCCCAGACCTTGTCTTCCTTTGGCAAGGCCACAGAGCTT[GC]GTGGAAGGGGCAGTGGCCCAGGGTCTGGGCTCCAGTTCTGGTTTACTG
23462 IS	[GC]		CT
23469 I		S	GGATTGTCTTGGTAATTTGCGTGCCATTCCCAATCTATTCTGAT
23469 P	INS	S	CGCGCCGAGGGCCTAAAATTGATTAACACTCTTAAAAAG
23469 P	DEL	S	CGCGCCGAGGGCTAAAATTGATTAACACTCTTAAAAAGG
23469 T	INS	S	TTCCCTTTTTAAGAGTGTTAATCAATTTTAGGCTCAGAATAGATTGGGAATGGCACGCAAATTACCAAGACAATCCCC
23469 T	DEL	S	TTTCCCTTTTTAAGAGTGTTAATCAATTTTAGCTCAGAATAGATTGGGAATGGCACGCAAATTACCAAGACAATCCCC

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23469	IS	[G-]	AATTTGCTAAATTTTGTTTTTCCCTTTTTAAGAGTGTTAATCAATTTTAG[G-]CTCAGAATAGATTGGGAATGGCACGCAAATTACCAAGACAATCCCCAAAT
23474	I	S	GGCAGGTCCAGGCTGCTCTGGGCA
23474	P	G S	CGCGCCGAGGCGACTTACCTTGTTGCTGT
23474	P	A S	CGCGCCGAGGTGACTTACCTTGTTGCTGTG
23474	T	G S	AGGACACAGCAACAAGGTAAGTCGGCCCAGAGCAGCCTGGACCTGCCAG
23474	T	A S	AGGACACAGCAACAAGGTAAGTCAGCCCAGAGCAGCCTGGACCTGCCAG
23474	IS	[GA]	GCCAGGCCTATGCCTGAGAGTTAAGAGAGGACACAGCAACAAGGTAAGTC[GA]GCCCAGAGCAGCCTGGACCTGCCAGGTTGCCTAAAGCCCTTTTTGTCT GT
23475	I	S	CCTTACCTGGGGATGTAGATACCTATTTCTGGGGTTGCA
23475	P	A S	CGCGCCGAGGTGGGAGGGCTGAATGA
23475	P	G S	CGCGCCGAGGCGGGAGGGCTGAATGA
23475	T	A S	TTTGTCATTCAGCCCTCCCAGCAACCCCAGAAATAGGTATCTACATCCCCAGGTAAGGCT
23475	T	G S	TTTGTCATTCAGCCCTCCCGGCAACCCCAGAAATAGGTATCTACATCCCCAGGTAAGGCT
23475	IS	[AG]	AAGTGCTATGTGAACGTAACGGCTATAAAAGTTTGTCATTCAGCCCTCCC[AG]GCAACCCCAGAAATAGGTATCTACATCCCCAGGTAAGGCTGGAAGAAGC C
23481	I	A	TGTTCTCCAAGTAATAACCAGACTTGTTGGTTTTCTTAGAGCCGACT
23481	P	C A	CGCGCCGAGGCCTCTAATAAAATTTCCTTCAAAGTCC
23481	P	A A	CGCGCCGAGGACTCTAATAAAATTTCCTTCAAAGTCC
23481	T	C A	CATAGGACTTTGAAGGAAATTTTATTAGAGGGTCGGCTCTAAGAAAACCAACAAGTCTGGTTATTACTTGGAGAACACA
23481	T	A A	CATAGGACTTTGAAGGAAATTTTATTAGAGTGTCGGCTCTAAGAAAACCAACAAGTCTGGTTATTACTTGGAGAACACA
23481	IS	[CA]	CTTGTGTTCTCCAAGTAATAACCAGACTTGTTGGTTTTCTTAGAGCCGAC[CA]CTCTAATAAAATTTCCTTCAAAGTCCTATGACCATGATCCCATTAGAATA
23484	I	S	AGAATACACATTTCCTTTCCTTTCTTTCCTTCCTTTTTTTCTCTTTCTTTT
23484	P	G S	CGCGCCGAGGCCTTCTTTCTTTCTCTGTCTTCC
23484	P	T S	CGCGCCGAGGACTTCTTTCTTTCTCTGTCTTCC
23484	T	G S	GAAAGGAAGACAGAGAAAGAAAGAAGGAAAGAAAAGAGAAAAAAAGGAAGGAAAGAAAGGAAAGGAAATGTGTATTCT
23484	T	T S	GAAAGGAAGACAGAGAAAGAAAGAAGTAAAGAAAGAGAAAAAAAGGAAGGAAAGAAAGGAAAGGAAATGTGTATTCT
23484	IS	[GT]	TCAAAAAAATAAAAAAAGAAAAAAGAAAGGAAGACAGAGAAAGAAAGAAG[GT]AAAGAAAGAGAAAAAAAGGAAGGAAAGAAAGGAAAGGAAATGTGTATTCT
23490	I	A	AGAAGAGGTCTCACTATGTTGCCCAGTCTGTGATTCCTCTATTTTTTTTAT
23490	P	G A	CGCGCCGAGGGAGTGACTAATAAGTTCCCTTATATTTTCT
23490	P	A A	CGCGCCGAGGAAGTGACTAATAAGTTCCCTTATATTTTCT
23490	T	G A	AGAAAGAAAATATAAGGGAACTTATTAGTCACTCTAAAAAAAATAGAGGAATCACAGACTGGGCAACATAGTGAGACCTCTTCT
23490	T	A A	AGAAAGAAAATATAAGGGAACTTATTAGTCACTTTAAAAAAAATAGAGGAATCACAGACTGGGCAACATAGTGAGACCTCTTCT
23490	IS	[GA]	AGAAGAGGTCTCACTATGTTGCCCAGTCTGTGATTCCTCTATTTTTTTTA[GA]AGTGACTAATAAGTTCCCTTATATTTTCTTTCTTCTTTAGTAATGTAGAC
23499	I	S	TTAAAATAATGTCTTTGTCCTTTTTGGGCTACTATAACAAACGTTCTATCT
23499	P	C S	CGCGCCGAGGGACTATGTAGCTTGAACAACAAAC
23499	P	T S	CGCGCCGAGGAACTATGTAGCTTGAACAACAAAC
23499	T	C S	AAATGTTTGTTGTTCAAGCTACATAGTCGATAGAACGTTTGTTATAGTAGCCCAAAAAGGACAAAGACATTATTTTAA
23499	T	T S	AAATGTTTGTTGTTCAAGCTACATAGTTGATAGAACGTTTGTTATAGTAGCCCAAAAAGGACAAAGACATTATTTTAA
23499	IS	[CT]	TAGCCTCCAGAATTGTGAGAAACAAATGTTTGTTGTTCAAGCTACATAGT[CT]GATAGAACGTTTGTTATAGTAGCCCAAAAAGGACAAAGACATTATTTTAA
23510	I	A	CAGGTACAGCCATCCCTACCTCAGCCCCA
23510	P	C A	CGCGCCGAGGCAGCCTCCATGCCCT
23510	P	T A	CGCGCCGAGGTAGCCTCCATGCCCTT
23510	T	C A	TCCCAAGGGCATGGAGGCTGGGGGCTGAGGTAGGGATGGCTGTACCTGCA
23510	T	T A	TCCCAAGGGCATGGAGGCTAGGGGCTGAGGTAGGGATGGCTGTACCTGCA
23510	IS	[CT]	CAACCTCCCAGAAGCTCGGGTGCAGGTACAGCCATCCCTACCTCAGCCCC[CT]AGCCTCCATGCCCTTGGGACCATGTGTGAGACACAATATATCCAGGGA CT
23514	I	S	CACTGGGTGGGTCTGTTGACCCAGTGGAATAAAAAAT
23514	P	INS S	CGCGCCGAGGGTTGCATTTTTCTAGGACTCCA
23514	P	DEL S	CGCGCCGAGGGTGCATTTTTCTAGGACTCCA
23514	T	INS S	TAAGTGGAGTCCTAGAAAAATGCAACTTTTTTATTCCACTGGGTCAACAGACCCACCCAGTGGT
23514	T	DEL S	TAAGTGGAGTCCTAGAAAAATGCACTTTTTTATTCCACTGGGTCAACAGACCCACCCAGTGGT
23514	IS	[-A]	AATGAAGGTTAGTGGGTGTCAGATAATAAGTGGAGTCCTAGAAAAATGCA[-A]CTTTTTTATTCCACTGGGTCAACAGACCCACCCAGTGGTTATTTCCTCTG
23521	I	S	GGGATTTCTAGGATGAGAGAACCAAGAGCAGGAAAATAATCAGGAAAAAGT
23521	P	C S	CGCGCCGAGGGTGAAAGTATGCAATGAAGGGAY
23521	P	G S	CGCGCCGAGGCTGAAAGTATGCAATGAAGGGAY
23521	T	C S	GACTTCCCTTCATTGCATACTTTCACCTTTTTCCTGATTATTTTCCTGCTCTTGGTTCTCTCATCCTAGAAATCCC
23521	T	G S	GACTTCCCTTCATTGCATACTTTCAGCTTTTTCCTGATTATTTTCCTGCTCTTGGTTCTCTCATCCTAGAAATCCC
23521	IS	[CG]	CCCATTTTACAGGCGAGAAAACTAAGACTTCCCTTCATTGCATACTTTCA[CG]CTTTTTCCTGATTATTTTCCTGCTCTTGGTTCTCTCATCCTAGAAATCCC
23523	I	S	CCTGAAAGCAATTTTTCCAATGCACAGAAGTCTTGAACACTTACACCA
23523	P	A S	CGCGCCGAGGTAATACCCAATCCTCAAATCAAACG
23523	P	G S	CGCGCCGAGGCAATACCCAATCCTCAAATCAAAC
23523	T	A S	CTAACGTTTGATTTGAGGATTGGGTATTAGGTGTAAGTGTTCAAGACTTCTGTGCATTGGAAAAATTGCTTTCAGGGC
23523	T	G S	CTAACGTTTGATTTGAGGATTGGGTATTGGGTGTAAGTGTTCAAGACTTCTGTGCATTGGAAAAATTGCTTTCAGGGC
23523	IS	[AG]	CAAAAACTAACTGACACAGCCACTAACGTTTGATTTGAGGATTGGGTATT[AG]GGTGTAAGTGTTCAAGACTTCTGTGCATTGGAAAAATTGCTTTCAGGGCA
23526	I	S	CTTTGGTCAGTGACAGGGATTTTGAGAAGAGACATTTTGCCTTTTC
23526	P	A S	CGCGCCGAGGTTTGGTAGAGTGAAAATTCTCAATTAAAG
23526	P	C S	CGCGCCGAGGGTTGGTAGAGTGAAAATTCTCAATTAAA
23526	T	A S	TAAGCTTTAATTGAGAATTTTCACTCTACCAAAAAAAGGCAAAATGTCTCTTCTCAAAATCCCTGTCACTGACCAAAGTT
23526	T	C S	TAAGCTTTAATTGAGAATTTTCACTCTACCAACAAAAGGCAAAATGTCTCTTCTCAAAATCCCTGTCACTGACCAAAGTT
23526	IS	[AC]	AATATTCAGTACTATAAATAAGCTTTAATTGAGAATTTTCACTCTACCAA[AC]AAAAGGCAAAATGTCTCTTCTCAAAATCCCTGTCACTGACCAAAGTTATC
23528	I	A	AGGTGAGACTCACACTATTTGATTTATTGTTATAAATTTTTGATTTAAAAT
23528	P	G A	CGCGCCGAGGGTGGCAGGTTTTTAAGCCA
23528	P	A A	CGCGCCGAGGATGGCAGGTTTTTAAGCCA
23528	T	G A	AATCTGGCTTAAAAACCTGCCACTTTTAAATCAAAAATTTATAACAATAAATCAAATAGTGTGAGTCTCACCT
23528	T	A A	AATCTGGCTTAAAAACCTGCCATTTTTAAATCAAAAATTTATAACAATAAATCAAATAGTGTGAGTCTCACCT
23528	IS	[GA]	AGGTGAGACTCACACTATTTGATTTATTGTTATAAATTTTTGATTTAAAA[GA]TGGCAGGTTTTTAAGCCAGATTTGGCAAAGTAGATTCTTCCTAAGGAAGT
23531	I	A	CCTTTGTGCGATTCGCAGCCCTGGCT
23531	P	A A	CGCGCCGAGGACGTCTGTGTGCACTAAGT
23531	P	G A	CGCGCCGAGGGCGTCTGTGTGCACTAAG
23531	T	A A	ACCCACTTAGTGCACACAGACGTGCCAGGGCTGCGAATCGCACAAAGGGA
23531	T	G A	ACCCACTTAGTGCACACAGACGCGCCAGGGCTGCGAATCGCACAAAGGGA
23531	IS	[AG]	AGGTAGCCGTTTGTTGTGATCGTTCCCTTTGTGCGATTCGCAGCCCTGGC[AG]CGTCTGTGTGCACTAAGTGGGTTTTCAACCTGTGGGTTGTGAATCATG AG
23538	I	S	CTGCTCATGTCCAGCGACCTGGAGCGT
23538	P	C S	CGCGCCGAGGGCACCTCATTATGCCTGG
23538	P	T S	CGCGCCGAGGACACCTCATTATGCCTGGT
23538	T	C S	GGATACCAGGCATAATGAGGTGCCGCTCCAGGTCGCTGGACATGAGCAGAG
23538	T	T S	GGATACCAGGCATAATGAGGTGTCGCTCCAGGTCGCTGGACATGAGCAGAG

FIGURE 129E



Date Recue/Received date 2011-12-16

FIGURE 129E

26320	T	DEL	A	GGTCCCGTGGCCTCGATGTCCCTAGGAGGCGATCCAGCTGGACGGGG	
26320	IS	[GA-]		GCCACCGGCGACACCTTCTGCAACAGCGAGAAAAGGATCTCCCCGTCCAGCTGGATCGCCTCCTAGGGA[GA-]CATCGAGGCCACGGGACCATGACCGTGGGCTGCAGGAGCCAGGGCAGAGACTACACCCCAGCACCCAGCACCCAGCACCCAGCAGGCTCAG	
26323	I		A	CCATACTGCCAGCAGCCGACACACTGGT	
26323	P	INS	A	CGCGCCGAGGAGCCAAGGAGTACTTCCTG	
26323	P	DEL	A	CGCGCCGAGGACCAAGGAGTACTTCCTGG	
26323	T	INS	A	TACCCAGGAAGTACTCCTTGGCTCCAGTGTGTCGGCTGCTGGCAGTATGGCC	
26323	T	DEL	A	TTACCCAGGAAGTACTCCTTGGTCCAGTGTGTCGGCTGCTGGCAGTATGGCC	
26323	IS	[-G]		CACATTCCAAACAGACCCCGGGCCATACTGCCAGCAGCCGACACACTGGA[-G]CCAAGGAGTACTTCCTGGGTAAAACTGCAGTGGGCGTTGGTAGAGTGGGGA	
26324	I		A	GCACCTGGATAACATGTGTCTGCAAGTCAAAATAAGCTCTTCTC	
26324	P	INS	A	CGCGCCGAGGTTCTTCCATGCGTTCCC	
26324	P	DEL	A	CGCGCCGAGGTCCATGCGTTCCCAGT	
26324	T	INS	A	AACTGGGAACGCATGGAAGAAAGAAGAGCTTATTTTGACTTGCAGACACATGTTATCCAGGTGCCT	
26324	T	DEL	A	GTAAACTGGGAACGCATGGAAGAAGAGCTTATTTTGACTTGCAGACACATGTTATCCAGGTGCCT	
26324	IS	[-TCTT]		CTTGAGGCACCTGGATAACATGTGTCTGCAAGTCAAAATAAGCTCTTCTT[-TCTT]CCATGCGTTCCCAGTTTACGTTGCTGTTAAATTCAGCTGCTTTTTTGGCAG	FLJ10975
26325	I		S	AGGATGTGGTTCCCTTAGGCGGCATCA	
26325	P	A	S	CGCGCCGAGGTTTATTGGCACCCCCAAC	
26325	P	G	S	CGCGCCGAGGCTTATTGGCACCCCCAAC	
26325	T	A	S	ACCTGTTGGGGGTGCCAATAAAGATGCCGCCTAAGGGAACCACATCCTGA	
26325	T	G	S	ACCTGTTGGGGGTGCCAATAAGGATGCCGCCTAAGGGAACCACATCCTGA	
26325	IS	[AG]		GAGGTCCGGCTGTCCAGGGCGGGCGTCACCTGTTGGGGGTGCCAATAA[AG]GATGCCGCCTAAGGGAACCACATCCTGATAATCATGTTCTGAGCCATGGGGGACC	
26327	I		A	GTTGCACACTTTCCTTCCTATCAGAGAGTAAAGGATGGCCT	
26327	P	INS	A	CGCGCCGAGGCCACTAAGCAAACACAAGTTC	
26327	P	DEL	A	CGCGCCGAGGCACTAAGCAAACACAAGTTCTG	
26327	T	INS	A	GCCAGAACTTGTGTTTGCTTAGTGGGGCCATCCTTTACTCTCTGATAGGAAGGAAAGTGTGCAACTC	
26327	T	DEL	A	GAGCCAGAACTTGTGTTTGCTTAGTGGGCCATCCTTTACTCTCTGATAGGAAGGAAAGTGTGCAACTC	
26327	IS	[-C]		TGTCAAGGAGTTGCACACTTTCCTTCCTATCAGAGAGTAAAGGATGGCCC[-C]ACTAAGCAAACACAAGTTCTGGCTCCCCGCTTTCTGTTTCAGACCCAGAAG	
26328	I		A	CAAACCAAACAATCCAAACAAGCCACAGAGCCTGACT	
26328	P	INS	A	CGCGCCGAGGAGCCTTCAGGCATTCAG	
26328	P	DEL	A	CGCGCCGAGGACCTTCAGGCATTCAGC	
26328	T	INS	A	GGTGCTGAATGCCTGAAGGCTGTCAGGCTCTGTGGCTTGTTTGGATTGTTTGGTTTGGG	
26328	T	DEL	A	TGGTGCTGAATGCCTGAAGGTGTCAGGCTCTGTGGCTTGTTTGGATTGTTTGGTTTGGG	
26328	IS	[-G]		CTAAAGAATAACCCAAACCAAACAATCCAAACAAGCCACAGAGCCTGACA[-G]CCTTCAGGCATTCAGCACCAGGGCCTTAGGACTTCAGCTCTCTTGTCCCCT	
26330	I		S	CCAAAGCTAATATCATTGTCTTTTAAAATGCATATTGGCTCATATTTCAT	
26330	P	INS	S	CGCGCCGAGGCTCACCAGAGTCTTTCAACTC	
26330	P	DEL	S	CGCGCCGAGGCCACCAGAGTCTTTCAACTC	
26330	T	INS	S	AACTGAGTTGAAAGACTCTGGTGAGTGAAATATGAGCCAATATGCATTTTAAAAGACAATGATATTAGCTTTGG	
26330	T	DEL	S	AACTGAGTTGAAAGACTCTGGTGGTGAAATATGAGCCAATATGCATTTTAAAAGACAATGATATTAGCTTTGG	
26330	IS	[A-]		TACAAAATATTGTCTTGTCCAACACTGAACTGAGTTGAAAGACTCTGGTG[A-]GTGAAATATGAGCCAATATGCATTTTAAAAGACAATGATATTAGCTTTGG	
26331	I		A	GGTTTGGGAGCATTTCTGTTTCCTATTGGCCCCAGT	
26331	P	INS	A	CGCGCCGAGGCCGGATGGGAGTCAAAG	
26331	P	DEL	A	CGCGCCGAGGCGGATGGGAGTCAAAGG	
26331	T	INS	A	CAGCCTTTGACTCCCATCCGGCTGGGGCCAATAGGAAACAGAAATGCTCCCAAACCAT	
26331	T	DEL	A	ACAGCCTTTGACTCCCATCCGCTGGGGCCAATAGGAAACAGAAATGCTCCCAAACCAT	
26331	IS	[-C]		CAGAGGACTGGCATGGTTTGGGAGCATTTCTGTTTCCTATTGGCCCCAGC[-C]GGATGGGAGTCAAAGGCTGTGAGACACAGAACCGTGGCCTGGGAGCAGGAA	
26335	I		S	TTCATTTCATAAACTTTTCTTAAGTGTCTCTTAAACAAGCATAGTCTGGAT	
26335	P	INS	S	CGCGCCGAGGCTTCGTGGATGTCACAGTTAAT	
26335	P	DEL	S	CGCGCCGAGGCTCGTGGATGTCACAGTTAATT	
26335	T	INS	S	TCCAATTAACTGTGACATCCACGAAGTCCAGACTATGCTTGTTTAAGAGACACTTAAGAAAAGTTTATGAAATGAA	
26335	T	DEL	S	CTCCAATTAACTGTGACATCCACGAGTCCAGACTATGCTTGTTTAAGAGACACTTAAGAAAAGTTTATGAAATGAA	
26335	IS	[-A]		TGCCCATTTGGTAACTGTCTTTTCCCTCCAATTAACTGTGACATCCACGA[-A]GTCCAGACTATGCTTGTTTAAGAGACACTTAAGAAAAGTTTATGAAATGAA	
26367	I		A	CAGGGCCTCCGCGCAGGCCT	
26367	P	G	A	CGCGCCGAGGGCTGTCCTTCTGGAGCT	
26367	P	A	A	CGCGCCGAGGACTGTCCTTCTGGAGCTG	
26367	T	G	A	CAGCCAGCTCCAGAAGGACAGCGGCCTGCGCGGAGGCCCTGGG	
26367	T	A	A	CAGCCAGCTCCAGAAGGACAGTGGCCTGCGCGGAGGCCCTGGG	
26367	IS	[GA]		CTCTGAAGGGAGATGCATGGCCAAGGTGGCAACTTGGAAGTAGGGATTGGCCCCAGGGCCTCCGCGCAGGCC[GA]CTGTCCTTCTGGAGCTGGCTGGGTGTGGGGGGAACCTGCCTTAATGGTGTTTCCCTCTGTTCTTGTCAACAGGAGGTTCAAGATGTGAGAGGGTCAGACGCCTGAGGAACCCTTACAGTAGGAGCCCA	
26368	I		A	AGRGGCGCTCTCCTCACCCCCACGA	
26368	P	T	A	CGCGCCGAGGTCTCCTGGGTGCCG	
26368	P	C	A	CGCGCCGAGGCCTCCTGGGTGCCG	
26368	T	T	A	AGGTCGGCACCCAGGAGACGTGGGGGTGAGGAGAGCGCCYCTTT	
26368	T	C	A	AGGTCGGCACCCAGGAGGCGTGGGGGTGAGGAGAGCGCCYCTTT	
26368	IS	[TC]		ACTTCGCTGGACGCTGTGCTGGGAAGGACACAGAGAGGTGGCTGGGGCAGCCTGCGGTCACAAAGCGAGGCCCAAGRGGCGCTCTCCTCACCCCCACG[TC]CTCCTGGGTGCCGACCTGCACCCTCCCTTCGCCACCGGACTGGGGCCATCTGGGATGTCTCGGGGGTATCCGGAGGGCTAAGCACCGCCGAGGGACGG	
26370	I		S	GCACATGGGGACAGGACAGGTGCCACA	
26370	P	A	S	CGCGCCGAGGTGTCACACCCCATCTCA	
26370	P	G	S	CGCGCCGAGGCGTCACACCCCATCTCA	
26370	T	A	S	TGACTGAGATGGGGTGTGACAGTGGCACCTGTCCTGTCCCCATGTGCCC	
26370	T	G	S	TGACTGAGATGGGGTGTGACGGTGGCACCTGTCCTGTCCCCATGTGCCC	
26370	IS	[AG]		AACCTCTTCAAAGGGCTTCCAGCAAGAGTAGAATCCACTGCAGTTCCCCTTAGTGACTGAGATGGGGTGTGAC[AG]GTGGCACCTGTCCTGTCCCCATGTGCCCTCTGGGGTAGCGCCTTTGAGTCTGAGGATTCAGTTTAAAGATAGTCAATAGGTTTTTCTTCTGAGTCCAAGGAGGACTCAGGTCAGTGGAAATAAGGAATGTTG	
26372	I		S	TCCACTGACCTGAGTCCTCCTTGGACTCAGAAGAAAAT	
26372	P	T	S	CGCGCCGAGGACCTATTGACTATCTTTAAACTGAATCC	
26372	P	G	S	CGCGCCGAGGCCCTATTGACTATCTTTAAACTGAATC	
26372	T	T	S	CTGAGGATTCAGTTTAAAGATAGTCAATAGGTTTTTCTTCTGAGTCCAAGGAGGACTCAGGTCAGTGGAAA	
26372	T	G	S	CTGAGGATTCAGTTTAAAGATAGTCAATAGGGTTTTCTTCTGAGTCCAAGGAGGACTCAGGTCAGTGGAAA	
26372	IS	[TG]		TGACAGTGGCACCTGTCCTGTCCCCATGTGCCCTCTGGGGTAGCGCCTTTGAGTCTGAGGATTCAGTTTAAAGATAGTCAATAGG[TG]TTTTCTTCTGAGTCCAAGGAGGACTCAGGTCAGTGGAAATAAGGAATGTTGCTTGCATGTGAAATGAGGTTGATAATAAATAAAGTAACTGCGTGTTGCTGTGCACTTTAGGTGGCGCCAT	
26373	I		S	GCCCAGGCGCCAGGATGAGAGCAT	
26373	P	C	S	CGCGCCGAGGGGAAACCAGTCGGGCY	
26373	P	T	S	CGCGCCGAGGAGAAACCAGTCGGGCGY	
26373	T	C	S	TCAACGCCCGACTGGTTTCCTGCTCTCATCCTGGCGCCTGGGCCC	
26373	T	T	S	TCAACGCCCGACTGGTTTCTTGCTCTCATCCTGGCGCCTGGGCCC	

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FIGURE 129E

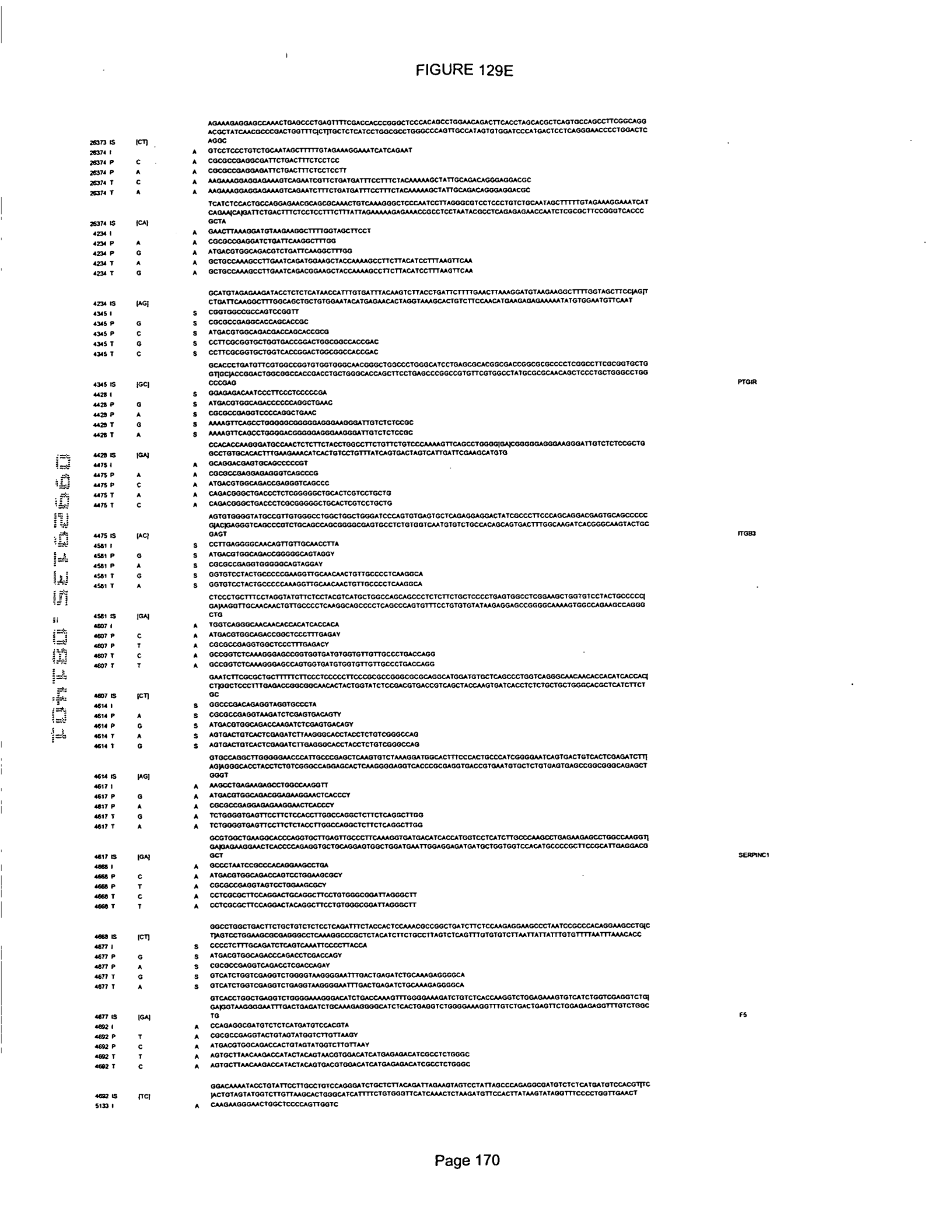
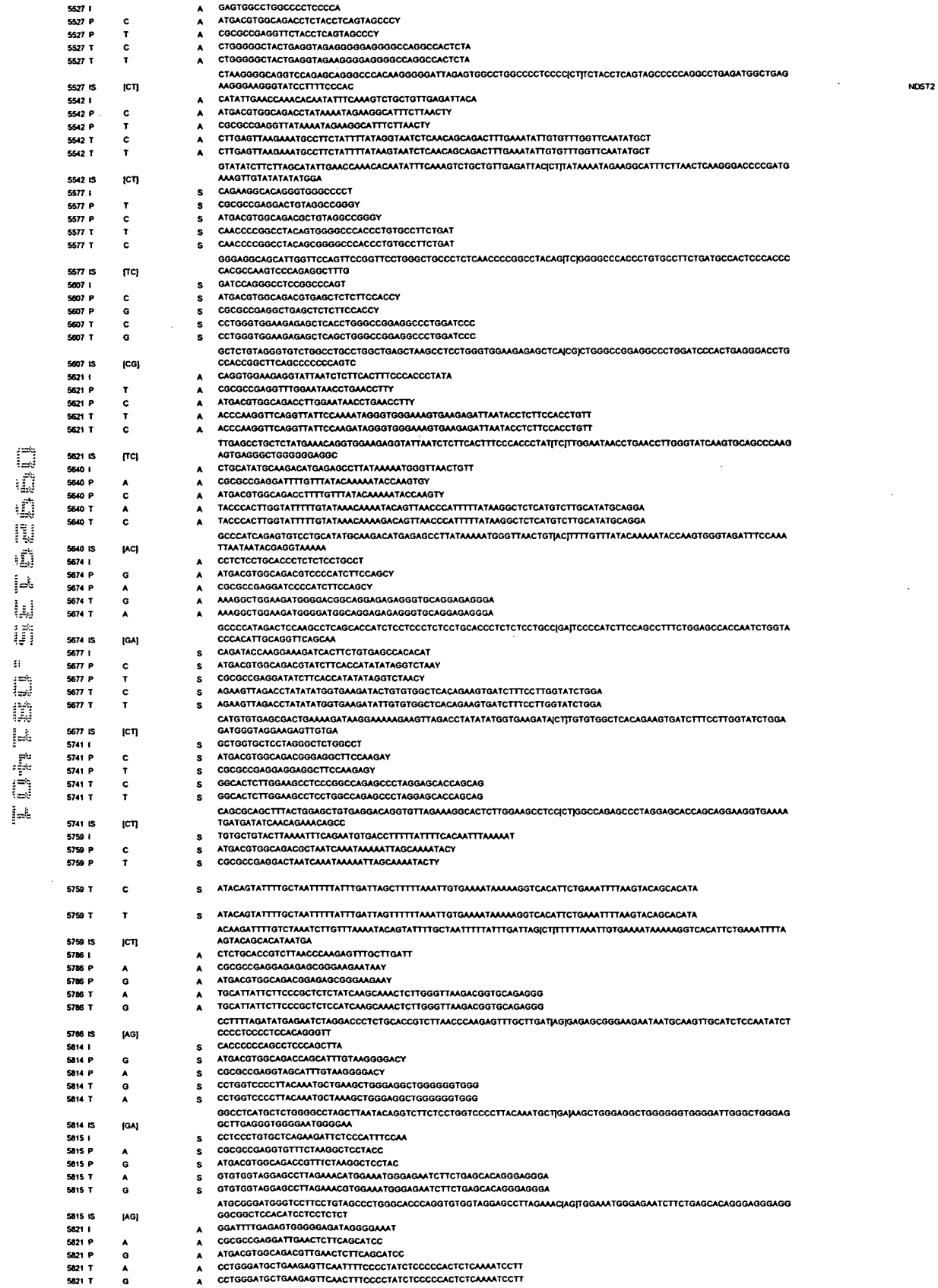
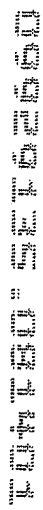

AGAAAGAGGAGCCAAACTGAGCCCTGAGTTTTCGACCACCCGGGCTCCCACAGCCTGGAACAGACTTCACCTAGCACGCTCAGTGCCAGCCTTCGGCAGG
ACGCTATCAACGCCCGACTGGTTTCTCTTGCTCTCATCCTGGCGCCTGGGCCCAGTTGCCATAGTGTGGATCCCATGACTCCTCAGGGAACCCCTGGACTC
26373 IS [CT] AGGC
26374 I A GTCCTCCCTGTCTGCAATAGCTTTTTGTAGAAAGGAAATCATCAGAAT
26374 P C A CGCGCCGAGGCGATTCTGACTTTCTCCTCC
26374 P A A CGCGCCGAGGAGATTCTGACTTTCTCCTCCTT
26374 T C A AAGAAAGGAGGAGAAAGTCAGAATCGTTCTGATGATTTCCTTTCTACAAAAAGCTATTGCAGACAGGGAGGACGC
26374 T A A AAGAAAGGAGGAGAAAGTCAGAATCTTTCTGATGATTTCCTTTCTACAAAAAGCTATTGCAGACAGGGAGGACGC
TCATCTCCACTGCCAGGAGAACGCAGCGCAAACTGTCAAAGGGCTCCCAATCCTTAGGGCGTCCTCCCTGTCTGCAATAGCTTTTTGTAGAAAGGAAATCAT
CAGAA[CA]GATTCTGACTTTCTCCTCCTTTCTTTATTAGAAAAAGAGAAACCGCCTCCTAATACGCCTCAGAGAGAACCAATCTCGCGCTTCCGGGTCACCC
26374 IS [CA] GCTA
4234 I A GAACTTAAAGGATGTAAGAAGGCTTTTGGTAGCTTCCT
4234 P A A CGCGCCGAGGATCTGATTCAAGGCTTTGG
4234 P G A ATGACGTGGCAGACGTCTGATTCAAGGCTTTGG
4234 T A A GCTGCCAAAGCCTTGAATCAGATGGAAGCTACCAAAAGCCTTCTTACATCCTTTAAGTTCAA
4234 T G A GCTGCCAAAGCCTTGAATCAGACGGAAGCTACCAAAAGCCTTCTTACATCCTTTAAGTTCAA
GCATGTAGAGAAGATACCTCTCTCATAACCATTTGTGATTTACAAGTCTTACCTGATTCTTTTGAACTTAAAGGATGTAAGAAGGCTTTTGGTAGCTTCC[AG]T
4234 IS [AG] CTGATTCAAGGCTTTGGCAGCTGCTGTGGAATACATGAGAACACTAGGTAAAGCACTGTCTTCCAACATGAAGAGAGAAAAATATGTGGAATGTTCAAT
4345 I S CGGTGGCCGCCAGTCCGGTT
4345 P G S CGCGCCGAGGCACCAGCACCGC
4345 P C S ATGACGTGGCAGACGACCAGCACCGCG
4345 T G S CCTTCGCGGTGCTGGTGACCGGACTGGCGGCCACCGAC
4345 T C S CCTTCGCGGTGCTGGTCACCGGACTGGCGGCCACCGAC
GCACCCTGATGTTCGTGGCCGGTGTGGTGGGCAACGGGCTGGCCCTGGGCATCCTGAGCGCACGGCGACCGGCGCGCCCCTCGGCCTTCGCGGTGCTG
GT[GC]ACCGGACTGGCGGCCACCGACCTGCTGGGCACCAGCTTCCTGAGCCCGGCCGTGTTCGTGGCCTATGCGCGCAACAGCTCCCTGCTGGGCCTGG
4345 IS [GC] CCCGAG PTGIR
4428 I S GGAGAGACAATCCCTTCCCTCCCCCGA
4428 P G S ATGACGTGGCAGACCCCCCAGGCTGAAC
4428 P A S CGCGCCGAGGTCCCCAGGCTGAAC
4428 T G S AAAAGTTCAGCCTGGGGGCGGGGGAGGGAAGGGATTGTCTCTCCGC
4428 T A S AAAAGTTCAGCCTGGGGACGGGGGAGGGAAGGGATTGTCTCTCCGC
CCACACCAAGGGATGCCAACTCTCTTCTACCTGGCCTTCTGTTCTGTCCCAAAAGTTCAGCCTGGGG[GA]CGGGGGAGGGAAGGGATTGTCTCTCCGCTG
4428 IS [GA] GCCTGTGCACACTTTGAAGAAACATCACTGTCCTGTTTATCAGTGACTAGTCATTGATTCGAAGCATGTG
4475 I A GCAGGACGAGTGCAGCCCCCGT
4475 P A A CGCGCCGAGGAGAGGGTCAGCCCG
4475 P C A ATGACGTGGCAGACCGAGGGTCAGCCC
4475 T A A CAGACGGGCTGACCCTCTCGGGGGCTGCACTCGTCCTGCTG
4475 T C A CAGACGGGCTGACCCTCGCGGGGGCTGCACTCGTCCTGCTG
AGTGTGGGGTATGCCGTTGTGGGCCTGGCTGGCTGGGATCCCAGTGTGAGTGCTCAGAGGAGGACTATCGCCCTTCCCAGCAGGACGAGTGCAGCCCCC
G[AC]GAGGGTCAGCCCGTCTGCAGCCAGCGGGGCGAGTGCCTCTGTGGTCAATGTGTCTGCCACAGCAGTGACTTTGGCAAGATCACGGGCAAGTACTGC
4475 IS [AC] GAGT ITGB3
4581 I S CCTTGAGGGGCAACAGTTGTTGCAACCTTA
4581 P G S ATGACGTGGCAGACCGGGGGCAGTAGGY
4581 P A S CGCGCCGAGGTGGGGGCAGTAGGAY
4581 T G S GGTGTCCTACTGCCCCCGAAGGTTGCAACAACTGTTGCCCCTCAAGGCA
4581 T A S GGTGTCCTACTGCCCCCAAAGGTTGCAACAACTGTTGCCCCTCAAGGCA
CTCCCTGCTTTCCTAGGTATGTTCTCCTACGTCATGCTGGCCAGCAGCCCTCTCTTCTGCTCCCCTGAGTGGCCTCGGAAGCTGGTGTCCTACTGCCCCC[
GA]AAGGTTGCAACAACTGTTGCCCCTCAAGGCAGCCCCTCAGCCCAGTGTTTCCTGTGTGTATAAGAGGAGCCGGGGCAAAAGTGGCCAGAAGCCAGGG
4581 IS [GA] CTG
4607 I A TGGTCAGGGCAACAACACCACATCACCACA
4607 P C A ATGACGTGGCAGACCGGCTCCCTTTGAGAY
4607 P T A CGCGCCGAGGTGGCTCCCTTTGAGACY
4607 T C A GCCGGTCTCAAAGGGAGCCGGTGGTGATGTGGTGTTGTTGCCCTGACCAGG
4607 T T A GCCGGTCTCAAAGGGAGCCAGTGGTGATGTGGTGTTGTTGCCCTGACCAGG
GAATCTTCGCGCTGCTTTTTCTTCCCTCCCCCTTCCCGCGCCGGGCGCGCAGGCATGGATGTGCTCAGCCCTGGTCAGGGCAACAACACCACATCACCAC[
CT]GGCTCCCTTTGAGACCGGCGGCAACACTACTGGTATCTCCGACGTGACCGTCAGCTACCAAGTGATCACCTCTCTGCTGCTGGGCACGCTCATCTTCT
4607 IS [CT] GC
4614 I S GGCCCGACAGAGGTAGGTGCCCTA
4614 P A S CGCGCCGAGGTAAGATCTCGAGTGACAGTY
4614 P G S ATGACGTGGCAGACCAAGATCTCGAGTGACAGY
4614 T A S AGTGACTGTCACTCGAGATCTTAAGGGCACCTACCTCTGTCGGGCCAG
4614 T G S AGTGACTGTCACTCGAGATCTTGAGGGCACCTACCTCTGTCGGGCCAG
GTGCCAGGCTTGGGGGAACCCATTGCCCGAGCTCAAGTGTCTAAAGGATGGCACTTTCCCACTGCCCATCGGGGAATCAGTGACTGTCACTCGAGATCTT[
AG]AGGGCACCTACCTCTGTCGGGCCAGGAGCACTCAAGGGGAGGTCACCCGCGAGGTGACCGTGAATGTGCTCTGTGAGTGAGCCGGCGGGCAGAGCT
4614 IS [AG] GGGT
4617 I A AAGCCTGAGAAGAGCCTGGCCAAGGTT
4617 P G A ATGACGTGGCAGACGGAGAAGGAACTCACCCY
4617 P A A CGCGCCGAGGAGAGAAGGAACTCACCCY
4617 T G A TCTGGGGTGAGTTCCTTCTCCACCTTGGCCAGGCTCTTCTCAGGCTTGG
4617 T A A TCTGGGGTGAGTTCCTTCTCTACCTTGGCCAGGCTCTTCTCAGGCTTGG
GCGTGGCTGAAGGCACCCAGGTGCTTGAGTTGCCCTTCAAAGGTGATGACATCACCATGGTCCTCATCTTGCCCAAGCCTGAGAAGAGCCTGGCCAAGGT[
GA]GAGAAGGAACTCACCCAGAGGTGCTGCAGGAGTGGCTGGATGAATTGGAGGAGATGATGCTGGTGGTCCACATGCCCCGCTTCCGCATTGAGGACG
4617 IS [GA] GCT SERPINC1
4668 I A GCCCTAATCCGCCCACAGGAAGCCTGA
4668 P C A ATGACGTGGCAGACCAGTCCTGGAAGCGCY
4668 P T A CGCGCCGAGGTAGTCCTGAAGCGCY
4668 T C A CCTCGCGCTTCCAGGACTGCAGGCTTCCTGTGGGCGGATTAGGGCTT
4668 T T A CCTCGCGCTTCCAGGACTACAGGCTTCCTGTGGGCGGATTAGGGCTT
GGCCTGGCTGACTTCTGCTGTCTCTCCTCAGATTTCTACCACTCCAAACGCCGGCTGATCTTCTCCAAGAGGAAGCCCTAATCCGCCCACAGGAAGCCTG[C
T]AGTCCTGGAAGCGCGAGGGCCTCAAAGGCCCGCTCTACATCTTCTGCCTTAGTCTCAGTTTGTGTGTCTTAATTATTATTTGTGTTTTAATTTAAACACC
4677 I S CCCCTCTTTGCAGATCTCAGTCAAATTCCCCTTACCA
4677 P G S ATGACGTGGCAGACCCAGACCTCGACCAGY
4677 P A S CGCGCCGAGGTCAGACCTCGACCAGAY
4677 T G S GTCATCTGGTCGAGGTCTGGGGTAAGGGGAATTTGACTGAGATCTGCAAAGAGGGGCA
4677 T A S GTCATCTGGTCGAGGTCTGAGGTAAGGGGAATTTGACTGAGATCTGCAAAGAGGGGCA
GTCACCTGGCTGAGGTCTGGGGAAAGGGACATCTGACCAAAGTTTGGGGAAAGATCTGTCTCACCAAGGTCTGGAGAAAGTGTCATCTGGTCGAGGTCTG[
GA]GGTAAGGGGAATTTGACTGAGATCTGCAAAGAGGGGCATCTCACTGAGGTCTGGGGAAAGGTTTGTCTGACTGAGTTCTGGAGAGAGGTTTGTCTGGC
4677 IS [GA] TG F5
4692 I A CCAGAGGCGATGTCTCTCATGATGTCCACGTA
4692 P T A CGCGCCGAGGTACTGTAGTATGGTCTTGTTAAGY
4692 P C A ATGACGTGGCAGACCACTGTAGTATGGTCTTGTTAAY
4692 T T A AGTGCTTAACAAGACCATACTACAGTAACGTGGACATCATGAGAGACATCGCCTCTGGGC
4692 T C A AGTGCTTAACAAGACCATACTACAGTGACGTGGACATCATGAGAGACATCGCCTCTGGGC
GGACAAAATACCTGTATTCCTTGCCTGTCCAGGGATCTGCTCTTACAGATTAGAAGTAGTCCTATTAGCCCAGAGGCGATGTCTCTCATGATGTCCACGT[TC
]ACTGTAGTATGGTCTTGTTAAGCACTGGGCATCATTTTCTGTGGGTTCATCAAACTCTAAGATGTTCCACTTATAAGTATAGGTTTCCCCTGGTTGAACT
5133 I A CAAGAAGGGAACTGGCTCCCCAGTTGGTC

FIGURE 129E

```
5133 P   T   A   CGCGCCGAGGTCCAGCCGGGTG
5133 P   G   A   ATGACGTGGCAGACGCCAGCCGGGTG
5133 T   T   A   TGCCCACCCGGCTGGAACCAACTGGGGAGCCAGTTCCCTTCTTGAG
5133 T   G   A   TGCCCACCCGGCTGGCACCAACTGGGGAGCCAGTTCCCTTCTTGAG
5133 IS  [TG]    CCAGCACGCAAGGGGAAAGCCCATTTATGTCCTCAAGAAGGGAACTGGCTCCCCAGTTGGT[TG]CCAGCCGGGTGGGCACGAAGTGTCTGTGAAGGAGGG GGACTCTGTCCGTGGCAGAGGAGT
5194 I       A   TTCCAAAAATACGAATGCAACCCTAAAGCTTTCGTAATTAAAAT
5194 P   C   A   CGCGCCGAGGCTGCACTTTGGACATTTG
5194 P   G   A   ATGACGTGGCAGACGTGCACTTTGGACATTTG
5194 T   C   A   GTCCCAAATGTCCAAAGTGCAGTTTTAATTACGAAAGCTTTAGGGTTGCATTCGTATTTTTGGAACA
5194 T   G   A   GTCCCAAATGTCCAAAGTGCACTTTTAATTACGAAAGCTTTAGGGTTGCATTCGTATTTTTGGAACA
5194 IS  [CG]    GGATAAAATACAAGTTGTTCCAAAAATACGAATGCAACCCTAAAGCTTTCGTAATTAAAA[CG]TGCACTTTGGACATTTGGGACACACTTTTCTTCTTTTATGG TGACATAATTATAGATTCC
5240 I       A   GAACTAGGGGTGGGAATAAGGGACTTTGGGGTAT
5240 P   C   A   CGCGCCGAGGCCCTAATGGTGCTCGG
5240 P   G   A   ATGACGTGGCAGACGCCTAATGGTGCTCG
5240 T   C   A   GTCCCCGAGCACCATTAGGGTACCCCAAAGTCCCTTATTCCCACCCCTAGTTCCC
5240 T   G   A   GTCCCCGAGCACCATTAGGCTACCCCAAAGTCCCTTATTCCCACCCCTAGTTCCC
5240 IS  [CG]    AACCAACTGGTCTTGTGGTACTTAGGGGAACTAGGGGTGGGAATAAGGGACTTTGGGGTA[CG]CCTAATGGTGCTCGGGGACAGCCTCAAGATAACTTCTT TGCTCACCAAGGTCTCCCACCA
5244 I       A   CTTGAAAAGTTAATGTTGGCTTTTATATCACACTATAGGAAATCTCTTTTAAGTTT
5244 P   A   A   CGCGCCGAGGAATTTCAATGCATTCTTTAAAATACTAT
5244 P   C   A   ATGACGTGGCAGACCATTTCAATGCATTCTTTAAAATACT
5244 T   A   A   TTAAATAGTATTTTAAAGAATGCATTGAAATTAACTTAAAAGAGATTTCCTATAGTGTGATATAAAAGCCAACATTAACTTTTCAAGTG
5244 T   C   A   TTAAATAGTATTTTAAAGAATGCATTGAAATGAACTTAAAAGAGATTTCCTATAGTGTGATATAAAAGCCAACATTAACTTTTCAAGTG
5244 IS  [AC]    TTCCACTTGAAAAGTTAATGTTGGCTTTTATATCACACTATAGGAAATCTCTTTTAAGTT[AC]ATTTCAATGCATTCTTTAAAATACTATTTAAAAGGCCTCTTTC TCTGCCTTCCTATGCAG
5295 I       S   ACGCATTGTGAAACTAGTAGTGAACTCTCGCTAGGATATTACAAATATTATGACAT
5295 P   G   S   CGCGCCGAGGCGGTCTACAGGCCCY
5295 P   C   S   ATGACGTGGCAGACGGGTCTACAGGCCCY
5295 T   G   S   CACAGGGCCTGTAGACCGTGTCATAATATTTGTAATATCCTAGCGAGAGTTCACTACTAGTTTCACAATGCGTGT
5295 T   C   S   CACAGGGCCTGTAGACCCTGTCATAATATTTGTAATATCCTAGCGAGAGTTCACTACTAGTTTCACAATGCGTGT
5295 IS  [GC]    TAATATTCTTCGTAATCTTCTAGGAAAACGTTACTTTTAATGTCACAGGGCCTGTAGACC[GC]TGTCATAATATTTGTAATATCCTAGCGAGAGTTCACTACTA GTTTCACAATGCGTGTACA
5329 I       S   TGGGTATATTGTCTTGCTAACTTAGCAAGCCTTTACAGAAATCACTCT
5329 P   C   S   ATGACGTGGCAGACGCCTTTTCTGATCCTAAGTTY
5329 P   G   S   CGCGCCGAGGCCCTTTTCTGATCCTAAGTTCY
5329 T   C   S   TGTGGAACTTAGGATCAGAAAAGGCGAGTGATTTCTGTAAAGGCTTGCTAAGTTAGCAAGACAATATACCCACT
5329 T   G   S   TGTGGAACTTAGGATCAGAAAAGGGGAGTGATTTCTGTAAAGGCTTGCTAAGTTAGCAAGACAATATACCCACT
5329 IS  [CG]    CTTATACATATTTTGACTTTCCACTCAGATTACAGGTGTGGAACTTAGGATCAGAAAAGG[CG]GAGTGATTTCTGTAAAGGCTTGCTAAGTTAGCAAGACAAT ATACCCACTTCAAGAGCACT
5343 I       A   CTGCAGGGAGGCGGAGGGGACT
5343 P   C   A   CGCGCCGAGGCGGCGCAGGTGCY
5343 P   G   A   ATGACGTGGCAGACGGGCGCAGGTGCY
5343 T   C   A   AGCAGCACCTGCGCCGGTCCCCTCCGCCTCCCTGCAGGG
5343 T   G   A   AGCAGCACCTGCGCCCGTCCCCTCCGCCTCCCTGCAGGG
5343 IS  [CG]    AATGAGGGGAGGTGAGTGTGAGCCCAGACACAAACCTCCCTGCAGGGAGGCGGAGGGGAC[CG]GGCGCAGGTGCTGCTCAGGACCAGCAGGGGGCGCG CGGGGCCCACAGAGCATGAGGCCGG
5352 I       A   CCGGAGGAGACACAGTTACCCGAACCCTTA
5352 P   C   A   ATGACGTGGCAGACCGCCTGAATAACTCCAGY
5352 P   T   A   CGCGCCGAGGTGCCTGAATAACTCCAGY
5352 T   C   A   GGGGCTGGAGTTATTCAGGCGAAGGGTTCGGGTAACTGTGTCTCCTCCGGAG
5352 T   T   A   GGGGCTGGAGTTATTCAGGCAAAGGGTTCGGGTAACTGTGTCTCCTCCGGAG
5352 IS  [CT]    CTGTCCCCCTCCAGGTTCGGCACCCAGGTCTCCGGAGGAGACACAGTTACCCGAACCCTT[CT]GCCTGAATAACTCCAGCCCCTGTGGTAAGACATGCATG AGAGAAGTCAGTGTTCTTGCCA
5387 I       A   GCAGGCAGCCTTCTTCCACCAGATTCCAT
5387 P   A   A   CGCGCCGAGGATCCACCTTAGAAGTAGGTCY
5387 P   G   A   ATGACGTGGCAGACGTCCACCTTAGAAGTAGGTY
5387 T   A   A   ATTAGACCTACTTCTAAGGTGGATTGGAATCTGGTGGAAGAAGGCTGCCTGCTG
5387 T   G   A   ATTAGACCTACTTCTAAGGTGGACTGGAATCTGGTGGAAGAAGGCTGCCTGCTG
5387 IS  [AG]    CTGAAAGAGGAGGGTGTACTTTCCAGAGGACAGCAGGCAGCCTTCTTCCACCAGATTCCA[AG]TCCACCTTAGAAGTAGGTCTAATGGTTACATGTGAATAA ATGATGGCAAAAATATTCCTT
5417 I       S   GAGCTCTCTGTTGAAACAGGGCAAGCCTGTT
5417 P   C   S   ATGACGTGGCAGACGTTTGAGACTAATGTGAAGC
5417 P   T   S   CGCGCCGAGGATTTGAGACTAATGTGAAGCC
5417 T   C   S   TCCTGGCTTCACATTAGTCTCAAACACAGGCTTGCCCTGTTTCAACAGAGAGCTCTA
5417 T   T   S   TCCTGGCTTCACATTAGTCTCAAATACAGGCTTGCCCTGTTTCAACAGAGAGCTCTA
5417 IS  [CT]    TAAGCAGTATCAAAGAAAAAGATGGCCTTGCCCAGCTCCTGGCTTCACATTAGTCTCAAA[CT]ACAGGCTTGCCCTGTTTCAACAGAGAGCTCTAGATGTCC TAGAAGAGAGGAGCATAGCAT
5421 I       A   CCCTTGCCAACTGGTCTCATGCCCAA
5421 P   C   A   ATGACGTGGCAGACCGTGTCTCCCCTCTTC
5421 P   T   A   CGCGCCGAGGTGTGTCTCCCCTCTTC
5421 T   C   A   ACCTGAAGAGGGGAGACACGTGGGCATGAGACCAGTTGGCAAGGGCC
5421 T   T   A   ACCTGAAGAGGGGAGACACATGGGCATGAGACCAGTTGGCAAGGGCC
5421 IS  [CT]    GCCAGGATGGTGGGGGTCTCTGGGCACCTACCTGGCCCTTGCCAACTGGTCTCATGCCCA[CT]GTGTCTCCCCTCTTCAGGTTGGTGGGGCTGAAGTGCC CGAGCGAGCCTGTGCTTCCGAGG
5455 I       A   GAGACCGACCTCCCTGCTCCACCAT
5455 P   C   A   CGCGCCGAGGCCAGACCCGACCC
5455 P   G   A   ATGACGTGGCAGACGCAGACCCGACCC
5455 T   C   A   GTGGGGGTCGGGTCTGGTGGTGGAGCAGGGAGGTCGGTCTCTA
5455 T   G   A   GTGGGGGTCGGGTCTGCTGGTGGAGCAGGGAGGTCGGTCTCTA
5455 IS  [CG]    ACTTGCATCCGGTTCTCCATTCTCAAGCCCTGGGTAGAGACCGACCTCCCTGCTCCACCA[CG]CAGACCCGACCCCCACCAGCTCAAAGACAGGTATGTGA ATCAGGCTTGGTCAATTTGCAT
5462 I       A   GGGCGGAAGCTCCTGGGGAGCA
5462 P   C   A   ATGACGTGGCAGACCCTGTGAGACCAACAGY
5462 P   T   A   CGCGCCGAGGTCTGTGAGACCAACAGGY
5462 T   C   A   CAGCCCTGTTGGTCTCACAGGGCTCCCCAGGAGCTTCCGCCCTT
5462 T   T   A   CAGCCCTGTTGGTCTCACAGAGCTCCCCAGGAGCTTCCGCCCTT
5462 IS  [CT]    GATGCCATGGCTGCTGGAGCGCGCCAGGTACTCGTTAAAGGGCGGAAGCTCCTGGGGAGC[CT]CTGTGAGACCAACAGGGCTGACTCCAGGTGAGGGCA CTGGAGCATCCTGGGGCCTTCCCG
5493 I       S   CATCCTACCCTGCAGAATCAGGCAGCTCTACATTAGA
5493 P   A   S   CGCGCCGAGGTGGAGAAATGGAGATGCY
5493 P   G   S   ATGACGTGGCAGACCGGAGAAATGGAGATGCY
5493 T   A   S   GTTCGCATCTCCATTTCTCCACTAATGTAGAGCTGCCTGATTCTGCAGGGTAGGATGTA
5493 T   G   S   GTTCGCATCTCCATTTCTCCGCTAATGTAGAGCTGCCTGATTCTGCAGGGTAGGATGTA
5493 IS  [AG]    GTGCTCTACAGTATCAGGTAAGCCTCCATTGGCTGCACATGTTCGCATCTCCATTTCTCC[AG]CTAATGTAGAGCTGCCTGATTCTGCAGGGTAGGATGTAT ATGAATATTTGACTTTTGTGG
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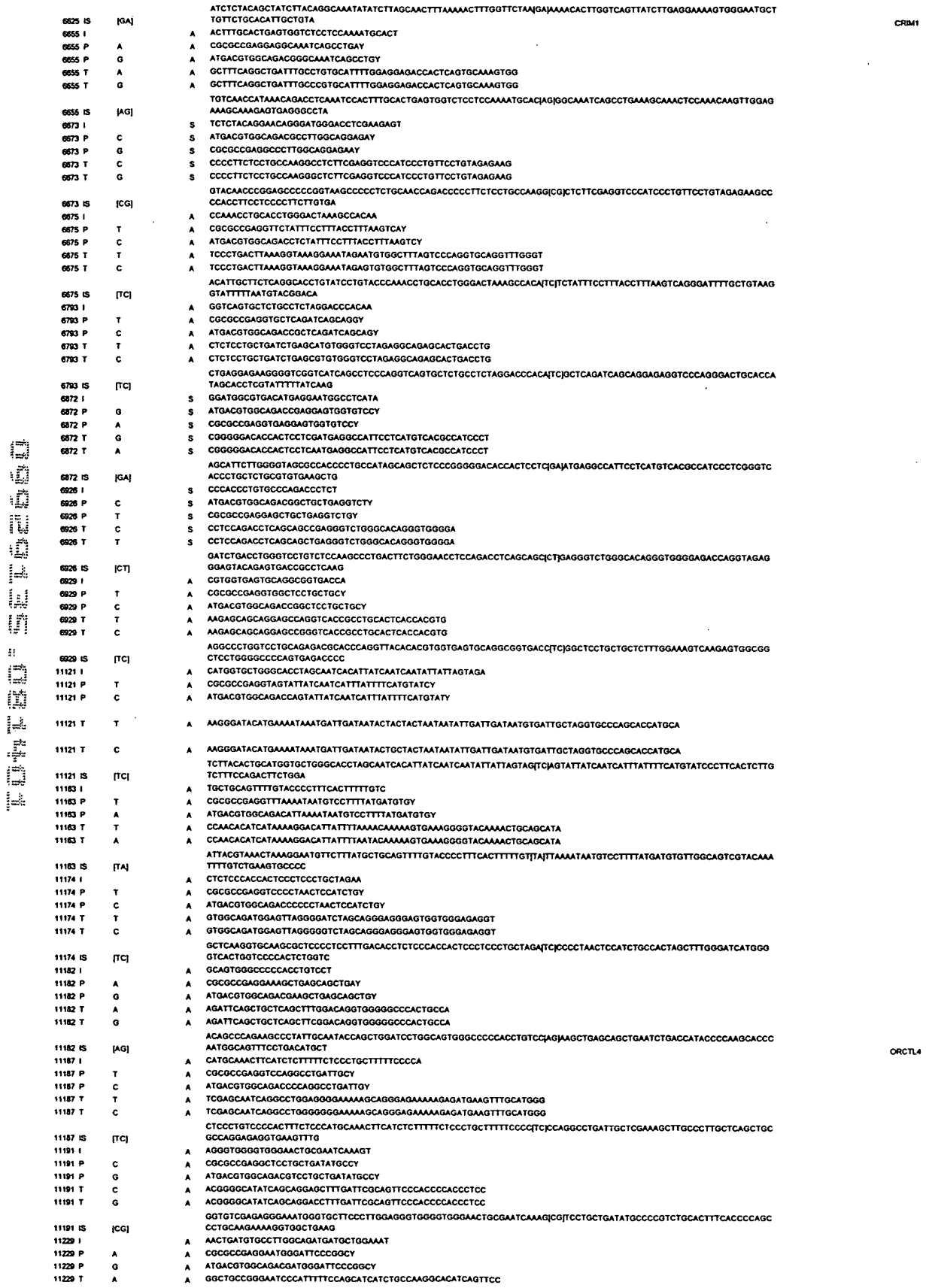
FIGURE 129E


5527 I A GAGTGGCCTGGCCCCTCCCCA
5527 P C A ATGACGTGGCAGACCTCTACCTCAGTAGCCCY
5527 P T A CGCGCCGAGGTTCTACCTCAGTAGCCCY
5527 T C A CTGGGGGCTACTGAGGTAGAGGGGGAGGGGCCAGGCCACTCTA
5527 T T A CTGGGGGCTACTGAGGTAGAAGGGGAGGGGCCAGGCCACTCTA
5527 IS [CT] CTAAGGGGCAGGTCCAGAGCAGGGCCCACAAGGGGGATTAGAGTGGCCTGGCCCCTCCCC[CT]TCTACCTCAGTAGCCCCCAGGCCTGAGATGGCTGAG AAGGGAAGGGTATCCTTTTCCCAC NDST2
5542 I A CATATTGAACCAAACACAATATTTCAAAGTCTGCTGTTGAGATTACA
5542 P C A ATGACGTGGCAGACCTATAAAATAGAAGGCATTTCTTAACTY
5542 P T A CGCGCCGAGGTTATAAAATAGAAGGCATTTCTTAACTY
5542 T C A CTTGAGTTAAGAAATGCCTTCTATTTTATAGGTAATCTCAACAGCAGACTTTGAAATATTGTGTTTGGTTCAATATGCT
5542 T T A CTTGAGTTAAGAAATGCCTTCTATTTTATAAGTAATCTCAACAGCAGACTTTGAAATATTGTGTTTGGTTCAATATGCT
5542 IS [CT] GTATATCTTCTTAGCATATTGAACCAAACACAATATTTCAAAGTCTGCTGTTGAGATTAC[CT]TATAAAATAGAAGGCATTTCTTAACTCAAGGGACCCCGATG AAAGTTGTATATATATGGA
5577 I S CAGAAGGCACAGGGTGGGCCCCT
5577 P T S CGCGCCGAGGACTGTAGGCCGGGY
5577 P C S ATGACGTGGCAGACGCTGTAGGCCGGGY
5577 T T S CAACCCCGGCCTACAGTGGGGCCCACCCTGTGCCTTCTGAT
5577 T C S CAACCCCGGCCTACAGCGGGGCCCACCCTGTGCCTTCTGAT
5577 IS [TC] GGGAGGCAGCATTGGTTCCAGTTCCGGTTCCTGGGCTGCCCTCTCAACCCCGGCCTACAG[TC]GGGGCCCACCCTGTGCCTTCTGATGCCACTCCCACCC CACGCCAAGTCCCAGAGGCTTTG
5607 I S GATCCAGGGCCTCCGGCCCAGT
5607 P C S ATGACGTGGCAGACGTGAGCTCTCTTCCACCY
5607 P G S CGCGCCGAGGCTGAGCTCTCTTCCACCY
5607 T C S CCTGGGTGGAAGAGAGCTCACCTGGGCCGGAGGCCCTGGATCCC
5607 T G S CCTGGGTGGAAGAGAGCTCAGCTGGGCCGGAGGCCCTGGATCCC
5607 IS [CG] GCTCTGTAGGGTGTCTGGCCTGCCTGGCTGAGCTAAGCCTCCTGGGTGGAAGAGAGCTCA[CG]CTGGGCCGGAGGCCCTGGATCCCACTGAGGGACCTG CCACCGGCTTCAGCCCCCCCAGTC
5621 I A CAGGTGGAAGAGGTATTAATCTCTTCACTTTCCCACCCTATA
5621 P T A CGCGCCGAGGTTTGGAATAACCTGAACCTTY
5621 P C A ATGACGTGGCAGACCTTGGAATAACCTGAACCTTY
5621 T T A ACCCAAGGTTCAGGTTATTCCAAAATAGGGTGGGAAAGTGAAGAGATTAATACCTCTTCCACCTGTT
5621 T C A ACCCAAGGTTCAGGTTATTCCAAGATAGGGTGGGAAAGTGAAGAGATTAATACCTCTTCCACCTGTT
5621 IS [TC] TTGAGCCTGCTCTATGAAACAGGTGGAAGAGGTATTAATCTCTTCACTTTCCCACCCTAT[TC]TTGGAATAACCTGAACCTTGGGTATCAAGTGCAGCCCAAG AGTGAGGGCTGGGGGGAGGC
5640 I A CTGCATATGCAAGACATGAGAGCCTTATAAAAATGGGTTAACTGTT
5640 P A A CGCGCCGAGGATTTTGTTTATACAAAAATACCAAGTGY
5640 P C A ATGACGTGGCAGACCTTTTGTTTATACAAAAATACCAAGTY
5640 T A A TACCCACTTGGTATTTTTGTATAAACAAAATACAGTTAACCCATTTTTATAAGGCTCTCATGTCTTGCATATGCAGGA
5640 T C A TACCCACTTGGTATTTTTGTATAAACAAAAGACAGTTAACCCATTTTTATAAGGCTCTCATGTCTTGCATATGCAGGA
5640 IS [AC] GCCCATCAGAGTGTCCTGCATATGCAAGACATGAGAGCCTTATAAAAATGGGTTAACTGT[AC]TTTTGTTTATACAAAAATACCAAGTGGGTAGATTTCCAAA TTAATAATACGAGGTAAAAA
5674 I A CCTCTCCTGCACCCTCTCTCCTGCCT
5674 P G A ATGACGTGGCAGACGTCCCCATCTTCCAGCY
5674 P A A CGCGCCGAGGATCCCCATCTTCCAGCY
5674 T G A AAAGGCTGGAAGATGGGGACGGCAGGAGAGAGGGTGCAGGAGAGGGA
5674 T A A AAAGGCTGGAAGATGGGGATGGCAGGAGAGAGGGTGCAGGAGAGGGA
5674 IS [GA] GCCCCATAGACTCCAAGCCTCAGCACCATCTCCTCCCTCTCCTGCACCCTCTCTCCTGCC[GA]TCCCCATCTTCCAGCCTTTCTGGAGCCACCAATCTGGTA CCCACATTGCAGGTTCAGCAA
5677 I S CAGATACCAAGGAAAGATCACTTCTGTGAGCCACACAT
5677 P C S ATGACGTGGCAGACGTATCTTCACCATATATAGGTCTAAY
5677 P T S CGCGCCGAGGATATCTTCACCATATATAGGTCTAACY
5677 T C S AGAAGTTAGACCTATATATGGTGAAGATACTGTGTGGCTCACAGAAGTGATCTTTCCTTGGTATCTGGA
5677 T T S AGAAGTTAGACCTATATATGGTGAAGATATTGTGTGGCTCACAGAAGTGATCTTTCCTTGGTATCTGGA
5677 IS [CT] CATGTGTGAGCGACTGAAAAGATAAGGAAAAAGAAGTTAGACCTATATATGGTGAAGATA[CT]TGTGTGGCTCACAGAAGTGATCTTTCCTTGGTATCTGGA GATGGGTAGGAAGAGTTGTGA
5741 I S GCTGGTGCTCCTAGGGCTCTGGCCT
5741 P C S ATGACGTGGCAGACGGGAGGCTTCCAAGAY
5741 P T S CGCGCCGAGGAGGAGGCTTCCAAGAGY
5741 T C S GGCACTCTTGGAAGCCTCCCGGCCAGAGCCCTAGGAGCACCAGCAG
5741 T T S GGCACTCTTGGAAGCCTCCTGGCCAGAGCCCTAGGAGCACCAGCAG
5741 IS [CT] CAGCGCAGCTTTACTGGAGCTGTGAGGACAGGTGTTAGAAAGGCACTCTTGGAAGCCTCC[CT]GGCCAGAGCCCTAGGAGCACCAGCAGGAAGGTGAAAA TGATGATATCAACAGAAACAGCC
5759 I S TGTGCTGTACTTAAAATTTCAGAATGTGACCTTTTTATTTTCACAATTTAAAAAT
5759 P C S ATGACGTGGCAGACGCTAATCAAATAAAAATTAGCAAAATACY
5759 P T S CGCGCCGAGGACTAATCAAATAAAAATTAGCAAAATACTY
5759 T C S ATACAGTATTTTGCTAATTTTTATTTGATTAGCTTTTTAAATTGTGAAAATAAAAAGGTCACATTCTGAAATTTTAAGTACAGCACATA
5759 T T S ATACAGTATTTTGCTAATTTTTATTTGATTAGTTTTTTAAATTGTGAAAATAAAAAGGTCACATTCTGAAATTTTAAGTACAGCACATA
5759 IS [CT] ACAAGATTTTGTCTAAATCTTGTTTAAAATACAGTATTTTGCTAATTTTTATTTGATTAG[CT]TTTTTAAATTGTGAAAATAAAAAGGTCACATTCTGAAATTTTA AGTACAGCACATAATGA
5786 I A CTCTGCACCGTCTTAACCCAAGAGTTTGCTTGATT
5786 P A A CGCGCCGAGGAGAGAGCGGGAAGAATAAY
5786 P G A ATGACGTGGCAGACGGAGAGCGGGAAGAAY
5786 T A A TGCATTATTCTTCCCGCTCTCTATCAAGCAAACTCTTGGGTTAAGACGGTGCAGAGGG
5786 T G A TGCATTATTCTTCCCGCTCTCCATCAAGCAAACTCTTGGGTTAAGACGGTGCAGAGGG
5786 IS [AG] CCTTTTAGATATGAGAATCTAGGACCCTCTGCACCGTCTTAACCCAAGAGTTTGCTTGAT[AG]GAGAGCGGGAAGAATAATGCAAGTTGCATCTCCAATATCT CCCCTCCCCTCCACAGGGTT
5814 I S CACCCCCCAGCCTCCCAGCTTA
5814 P G S ATGACGTGGCAGACCAGCATTTGTAAGGGGACY
5814 P A S CGCGCCGAGGTAGCATTTGTAAGGGGACY
5814 T G S CCTGGTCCCCTTACAAATGCTGAAGCTGGGAGGCTGGGGGGTGGG
5814 T A S CCTGGTCCCCTTACAAATGCTAAAGCTGGGAGGCTGGGGGGTGGG
5814 IS [GA] GGCCTCATGCTCTGGGGCCTAGCTTAATACAGGTCTTCTCCTGGTCCCCTTACAAATGCT[GA]AAGCTGGGAGGCTGGGGGGTGGGGATTGGGCTGGGAG GCTTGAGGGTGGGGAATGGGGAA
5815 I S CCTCCCTGTGCTCAGAAGATTCTCCCATTTCCAA
5815 P A S CGCGCCGAGGTGTTTCTAAGGCTCCTACC
5815 P G S ATGACGTGGCAGACCGTTTCTAAGGCTCCTAC
5815 T A S GTGTGGTAGGAGCCTTAGAAACATGGAAATGGGAGAATCTTCTGAGCACAGGGAGGGA
5815 T G S GTGTGGTAGGAGCCTTAGAAACGTGGAAATGGGAGAATCTTCTGAGCACAGGGAGGGA
5815 IS [AG] ATGCGGGATGGGTCCTTCCTGTAGCCCTGGGCACCCAGGTGTGGTAGGAGCCTTAGAAAC[AG]TGGAAATGGGAGAATCTTCTGAGCACAGGGAGGGAGG GGCGGCTCCACATCCTCCTCTCT
5821 I A GGATTTTGAGAGTGGGGGAGATAGGGGAAAT
5821 P A A CGCGCCGAGGATTGAACTCTTCAGCATCC
5821 P G A ATGACGTGGCAGACGTTGAACTCTTCAGCATCC
5821 T A A CCTGGGATGCTGAAGAGTTCAATTTTCCCCTATCTCCCCCACTCTCAAAATCCTT
5821 T G A CCTGGGATGCTGAAGAGTTCAACTTTCCCCTATCTCCCCCACTCTCAAAATCCTT



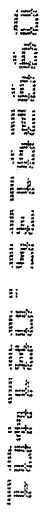
			TGCTCAAATTTATTCAATAAATTGATAAAAGGATTTTGAGAGTGGGGGAGATAGGGGAAA[AG]TTGAACTCTTCAGCATCCCAGGAAAACGGGGCTAAAAAAA
5821	IS	[AG]	AACACACTTTCTGGTTTTCT
5856	I	S	TTTCTGATGAGTGGGTTCTGCAGTCTCTTTTCCCTGA
5856	P	G S	ATGACGTGGCAGACCTCCCAGCCTCTCC
5856	P	A S	CGCGCCGAGGTTCCCAGCCTCTCCT
5856	T	G S	GGTTAGGAGAGGCTGGGAGCAGGGAAAAGAGACTGCAGAACCCACTCATCAGAAAGC
5856	T	A S	GGTTAGGAGAGGCTGGGAACAGGGAAAAGAGACTGCAGAACCCACTCATCAGAAAGC
			CTCACTCCACCCAGAACATTGAGATGATCAGCATAGTTGAATGGTTAGGAGAGGCTGGGA[GA]CAGGGAAAAGAGACTGCAGAACCCACTCATCAGAAAGC
5856	IS	[GA]	CTCATCAGAAAGCCTGCCATTT
5874	I	S	CCTTCATGTATACACTTGATCTCTGTTAAGATGGTGGACC
5874	P	A S	CGCGCCGAGGTAAAAATTTGTTAGAATAGAAAAAAAATACATAAY
5874	P	C S	ATGACGTGGCAGACGAAAAATTTGTTAGAATAGAAAAAAAATACAY
5874	T	A S	CTCTTTATGTATTTTTTTTCTATTCTAACAAATTTTTAGTCCACCATCTTAACAGAGATCAAGTGTATACATGAAGGTA
5874	T	C S	CTCTTTATGTATTTTTTTTCTATTCTAACAAATTTTTCGTCCACCATCTTAACAGAGATCAAGTGTATACATGAAGGTA
			TCTGAAGAGATCATGTTATTTCACTCTTTATGTATTTTTTTTCTATTCTAACAAATTTTT[AC]GTCCACCATCTTAACAGAGATCAAGTGTATACATGAAGGTAT
5874	IS	[AC]	CAGTTCATTTAATTTTAG
5918	I	A	CTTCCAGGGGACGGTTACTACCTGGCCT
5918	P	A A	CGCGCCGAGGATGGGCGGGGCY
5918	P	G A	ATGACGTGGCAGACGTGGGCGGGGCY
5918	T	A A	CACGGCCCCGCCCATGGCCAGGTAGTAACCGTCCCCTGGAAGAG
5918	T	G A	CACGGCCCCGCCCACGGCCAGGTAGTAACCGTCCCCTGGAAGAG
			CCCTGAAATCCTGCTCTAAGTCCAGGTGCCTCTCTTCCAGGGGACGGTTACTACCTGGCC[AG]TGGGCGGGGCCGTGGCCCAGCACAACTGGTCCCACAT
5918	IS	[AG]	CACCACCGTGCTGCAGGACCAGA
6030	I	S	CGGCTGTCTCAGAATGCACAGTCTATGAGAGCA
6030	P	G S	ATGACGTGGCAGACCGTGCCCATTTGTGCY
6030	P	A S	CGCGCCGAGGTGTGCCCATTTGTGCY
6030	T	G S	CCCTGCACAAATGGGCACGGCTCTCATAGACTGTGCATTCTGAGACAGCCGCC
6030	T	A S	CCCTGCACAAATGGGCACAGCTCTCATAGACTGTGCATTCTGAGACAGCCGCC
			ACAGTGGATGAGGAGGGGCAACTGCTCGACAGCACGGATGTTCCCTGCACAAATGGGCAC[GA]GCTCTCATAGACTGTGCATTCTGAGACAGCCGCCTGG
6030	IS	[GA]	TCAGAGGGCGGAGACCCCCAATT
6080	I	A	CCTAATCTGGACCCCCATTCCCTGCCTTC
6080	P	T A	CGCGCCGAGGTTGGGACTGTCTTTTCTC
6080	P	A A	ATGACGTGGCAGACATGGGACTGTCTTTTCTC
6080	T	T A	AAACGAGAAAAGACAGTCCCAAAAGGCAGGGAATGGGGGTCCAGATTAGGGC
6080	T	A A	AAACGAGAAAAGACAGTCCCATAAGGCAGGGAATGGGGGTCCAGATTAGGGC
			TGCTGCTTGCTGAAGAACCTGGGTGAGTGAGCCCTAATCTGGACCCCCATTCCCTGCCTT[TA]TGGGACTGTCTTTTCTCGTTTTTATGTTGGTATACTTGC
6080	IS	[TA]	TTCATATTGGGAAGCTTTACT
6121	I	A	CCCCTGCCCAGTTTCCCAAGCCAA
6121	P	C A	ATGACGTGGCAGACCGACCCAGTGCCC
6121	P	T A	CGCGCCGAGGTGACCCAGTGCCC
6121	T	C A	ACAAGGGCACTGGGTCGTGGCTTGGGAAACTGGGCAGGGGTG
6121	T	T A	ACAAGGGCACTGGGTCATGGCTTGGGAAACTGGGCAGGGGTG
			CTTCATCCCATTCCCCTCCTCTCAGCAAATGCCCTCACCCCTGCCCAGTTTCCCAAGCCA[CT]GACCCAGTGCCCTTGTGAAGGCCCTCCCACCAACTTGCG
6121	IS	[CT]	CCTGGGCTCACCTCAGATGTC
6199	I	S	CATGTGGAAGAAAATATCTCTGCATCCTTTTGTTCTTTGTAAAAAAATAAC
6199	P	A S	CGCGCCGAGGTAATAAGAAGAAAGTTTATGAAGTGTT
6199	P	C S	ATGACGTGGCAGACGAATAAGAAGAAAGTTTATGAAGTGT
6199	T	A S	TACCAACACTTCATAAACTTTCTTCTTATTATTATTTTTTTACAAAGAACAAAAGGATGCAGAGATATTTTCTTCCACATGGA
6199	T	C S	TACCAACACTTCATAAACTTTCTTCTTATTCTTATTTTTTTTACAAAGAACAAAAGGATGCAGAGATATTTTCTTCCACATGGA
			TTACATCAGTGTTTTGTATTAGGCTTAATTTACCAACACTTCATAAACTTTCTTCTTATT[AC]TTATTTTTTTACAAAGAACAAAAGGATGCAGAGATATTTTCTT
6199	IS	[AC]	CCACATGGAAAGAGTGA
6253	I	A	CGTATGGGTGGAAGAGCTCTTTGAAGCGGCT
6253	P	C A	ATGACGTGGCAGACCGGTGTGGTGCACY
6253	P	A A	CGCGCCGAGGAGGTGTGGTGCACCY
6253	T	C A	GCGTGGTGCACCACACCGGCCGCTTCAAAGAGCTCTTCCACCCATACGCC
6253	T	A A	GCGTGGTGCACCACACCTGCCGCTTCAAAGAGCTCTTCCACCCATACGCC
			GGCGCCCGATGCCGCTCACCAGGCTCTCGGCGTATGGGTGGAAGAGCTCTTTGAAGCGGC[CA]GGTGTGGTGCACCACGCGGCTCTGCAGTCCCTGCAG
6253	IS	[CA]	CAAAGCCCAAGCCTCGTCCACGCC
6364	I	A	TCTCCCACAGTGGCCTTGGGGGAGC
6364	P	T A	CGCGCCGAGGTTGGTGAAGACATTCCCTY
6364	P	G A	ATGACGTGGCAGACGTGGTGAAGACATTCCCY
6364	T	T A	AGACAGGGAATGTCTTCACCAACTCCCCCAAGGCCACTGTGGGAGATG
6364	T	G A	AGACAGGGAATGTCTTCACCACCTCCCCCAAGGCCACTGTGGGAGATG
			GTAGGGGCTTGAAGTTTCTCTCTGAAGAAAATGGCATCTCCCACAGTGGCCTTGGGGGAG[TG]TGGTGAAGACATTCCCTGTCTCCATCACAGCCTCCTTC
6364	IS	[TG]	CCTGGACACATCCCGGACTGTG
6481	I	S	GGAGTCAGTGATGGCCTGGGCCCTA
6481	P	A S	CGCGCCGAGGTGTCAGAAGACACCAACTY
6481	P	G S	ATGACGTGGCAGACCGTCAGAAGACACCAACY
6481	T	A S	CAGGAGTTGGTGTCTTCTGACAAGGGCCCAGGCCATCACTGACTCCCT
6481	T	G S	CAGGAGTTGGTGTCTTCTGACGAGGGCCCAGGCCATCACTGACTCCCT
			TGAAAGCAGACACAGTTTGCTAGTCTCTATCTGTCTCTGCAGGAGTTGGTGTCTTCTGAC[AG]AGGGCCCAGGCCATCACTGACTCCCTCCCTTTAAGGGAA
6481	IS	[AG]	ACAGAGGGGAAAGTCCTAGCC
6545	I	A	CAGTGTCTGTACTTCCTTAACTGGACGTCACTAGATCCCT
6545	P	A A	CGCGCCGAGGACAGTTCGAAGATGTTAAATTTGY
6545	P	G A	ATGACGTGGCAGACGCAGTTCGAAGATGTTAAATTTY
6545	T	A A	GCTTCAAATTTAACATCTTCGAACTGTGGGATCTAGTGACGTCCAGTTAAGGAAGTACAGACACTGCG
6545	T	G A	GCTTCAAATTTAACATCTTCGAACTGCGGGATCTAGTGACGTCCAGTTAAGGAAGTACAGACACTGCG
			CTTTCAAACCGACCTTTTTCGCAGTGTCTGTACTTCCTTAACTGGACGTCACTAGATCCC[AG]CAGTTCGAAGATGTTAAATTTGAAGCAGCAAGTCTGTTGT
6545	IS	[AG]	CTGAATTGTACTGTCAAGAG
6619	I	A	GGGGTCAATTTTTTACTCCAAGAGATGATAAATCTTGATATATTTCTCATGT
6619	P	G A	ATGACGTGGCAGACGTTGGTTGGTCAATATGTTC
6619	P	A A	CGCGCCGAGGATTGGTTGGTCAATATGTTCT
6619	T	G A	ACAGAGAACATATTGACCAACCAACCATGAGAAATATATCAAGATTTATCATCTCTTGGAGTAAAAAATTGACCCCAA
6619	T	A A	ACAGAGAACATATTGACCAACCAATCATGAGAAATATATCAAGATTTATCATCTCTTGGAGTAAAAAATTGACCCCAA
			GGTTAAATTGGGGTCAATTTTTTACTCCAAGAGATGATAAATCTTGATATATTTCTCATG[GA]TTGGTTGGTCAATATGTTCTCTGTGCTGCCCATGAACTCAC
6619	IS	[GA]	CATCATCAGATTCTCCGGA
6622	I	A	GGGTATTTTTGTTTTTAGGTAAGTGACAGTTTGCTCTTTGATACT
6622	P	A A	CGCGCCGAGGATCAGATGATGAAGAGCTG
6622	P	G A	ATGACGTGGCAGACGTCAGATGATGAAGAGCTG
6622	T	A A	CTCTCAGCTCTTCATCATCTGATGTATCAAAGAGCAAACTGTCACTTACCTAAAAACAAAAATACCCAT
6622	T	G A	CTCTCAGCTCTTCATCATCTGACGTATCAAAGAGCAAACTGTCACTTACCTAAAAACAAAAATACCCAT
			TCCTGCTTTTAATGATGGGTATTTTTGTTTTTAGGTAAGTGACAGTTTGCTCTTTGATAC[AG]TCAGATGATGAAGAGCTGAGAGAACAGCTGGATATGCACT
6622	IS	[AG]	CAATCATCGTCTCCTGTGTT
6625	I	S	CAAGCATTCCCACTTTTCCTCAAGATAACTGACCAAGTGTTTTA
6625	P	G S	ATGACGTGGCAGACCTTAGAACCAAAGTTTTTAAAGTTGY
6625	P	A S	CGCGCCGAGGTTTAGAACCAAAGTTTTTAAAGTTGY
6625	T	G S	TTAGCAACTTTAAAAACTTTGGTTCTAAGAAAACACTTGGTCAGTTATCTTGAGGAAAAGTGGGAATGCTTGTT
6625	T	A S	TTAGCAACTTTAAAAACTTTGGTTCTAAAAAAACACTTGGTCAGTTATCTTGAGGAAAAGTGGGAATGCTTGTT

FIGURE 129E



Applicant: Human Genome Sciences, Inc.
Serial No.: 10/765,180
Atty. Docket No.: PF546P1

FIGURE 129E



11229	T	G	A	GGCTGCCGGGGAATCCCATCTTTCCAGCATCATCTGCCAAGGCACATCAGTTCC	
11229	IS	[AG]		GCTGCCAGAACCCATCAAGACACCCAGGAACTGATGTGCCTTGGCAGATGATGCTGGAAA[AG]ATGGGATTCCCGGCAGCCTTTGCATCCCTTGCTCACAG CCCACAAGCATCTCCACTGTCC	
11266	I		S	GTGAAGGGGGGACCTATTTATTGTGCATTATTAAACTTTTT	
11266	P	G	S	CGCGCCGAGGCATAAAATAATCAAATTTGAGAGCAGY	
11266	P	C	S	ATGACGTGGCAGACGATAAAATAATCAAATTTGAGAGCAGY	
11266	T	G	S	AGGACTGCTCTCAAATTTGATTATTTTATGAAAAGTTTAATAATGCACAATAAATAGGTCCCCCCTTCACGT	
11266	T	C	S	AGGACTGCTCTCAAATTTGATTATTTTATCAAAAGTTTAATAATGCACAATAAATAGGTCCCCCCTTCACGT	
11268	IS	[GC]		TAACCTTTAGTTTCCAATACTATTATTACAAAGGACTGCTCTCAAATTTGATTATTTTAT[GC]AAAAGTTTAATAATGCACAATAAATAGGTCCCCCCTTCACGT AGATACTACCCACACAGC	
11325	I		A	CCACCCTGGTGCCTCAGCTCAGTGAT	
11325	P	G	A	ATGACGTGGCAGACGACACTGTGCTGACGY	
11325	P	A	A	CGCGCCGAGGAACACTGTGCTGACGY	
11325	T	G	A	AGCCCGTCAGCACAGTGTCTCACTGAGCTGAGGCACCAGGGTGGGT	
11325	T	A	A	AGCCCGTCAGCACAGTGTTTCACTGAGCTGAGGCACCAGGGTGGGT	
11325	IS	[GA]		TGGGGGTGGGAGGGGTGGGAATATAAGGGGCTGACCCACCCTGGTGCCTCAGCTCAGTGA[GA]ACACTGTGCTGACGGGCTCATTGAGGCAGGTGGGAG GAGAGAAGGGAGTCTGGTCTCAGA	
11348	I		A	GGAGGGGTGCTCCCTTCAGCAGGAGT	
11348	P	A	A	CGCGCCGAGGAGAAGAGGCCTCAGGAY	
11348	P	G	A	ATGACGTGGCAGACGGAAGAGGCCTCAGGY	
11348	T	A	A	GGGGTCCTGAGGCCTCTTCTCTCCTGCTGAAGGGAGCACCCCTCCTG	
11348	T	G	A	GGGGTCCTGAGGCCTCTTCCCTCCTGCTGAAGGGAGCACCCCTCCTG	
11348	IS	[AG]		GGTAAACGTCGGTGTGAGCAGGTCCAGGCCTGCCAGGAGGGGTGCTCCCTTCAGCAGGAG[AG]GAAGAGGCCTCAGGACCCCAGGGGCGTCCCACCTG CCTGGGGATTGACCCCGCGCCCCT	
11349	I		A	GTTGCCAGTCACCGCCCAGAGAAGAACAT	
11349	P	A	A	CGCGCCGAGGAGAAGGAGAGTGTGGTCY	
11349	P	G	A	ATGACGTGGCAGACGGAAGGAGAGTGTGGTY	
11349	T	A	A	TAGAGACCACACTCTCCTTCTTGTTCTTCTCTGGGCGGTGACTGGCAACTG	
11349	T	G	A	TAGAGACCACACTCTCCTTCCTGTTCTTCTCTGGGCGGTGACTGGCAACTG	
11349	IS	[AG]		AACAGGGAAGAGGAGAGATAATATCAGCTGCAGTTGCCAGTCACCGCCCAGAGAAGAACA[AG]GAAGGAGAGTGTGGTCTCTAAACCAGAAGTGAGGAAG GAAAGGGGTTTGTTCCCTGCTGC	
11383	I		A	GCCTCCTGCACCTTCTGCAGATGGCC	
11383	P	G	A	ATGACGTGGCAGACGCCGGCCATGGCY	
11383	P	T	A	CGCGCCGAGGTCCGGCCATGGCY	
11383	T	G	A	CCTGGCCATGGCCGGCGCCATCTGCAGAAGGTGCAGGAGGCAG	
11383	T	T	A	CCTGGCCATGGCCGGAGCCATCTGCAGAAGGTGCAGGAGGCAG	
11383	IS	[GT]		ACTTCTCTCCCAGGGTCAGGGGCCACCCTCTCCCTGCCTCCTGCACCTTCTGCAGATGGC[GT]CCGGCCATGGCCAGGTAGAGGAGGTAGTGAACAGTGC CATCCCAGTAGCAGATGAAGACT	
11440	I		S	GGACAACACACAAGGATAGTTTGCTAAAAATGCTAGCCTGATC	
11440	P	T	S	CGCGCCGAGGAATGTGGAACCAGATACTCY	
11440	P	A	S	ATGACGTGGCAGACTATGTGGAACCAGATACTCAY	
11440	T	T	S	AATCTGAGTATCTGGTTCCACATTATCAGGCTAGCATTTTTAGCAAACTATCCTTGTGTGTTGTCCCT	
11440	T	A	S	AATCTGAGTATCTGGTTCCACATAATCAGGCTAGCATTTTTAGCAAACTATCCTTGTGTTGTCCCT	
11440	IS	[TA]		TCATTTGGATCTTCCAAATCACACTTGAATATCAATTAATCTGAGTATCTGGTTCCACAT[TA]ATCAGGCTAGCATTTTTAGCAAACTATCCTTGTGTGTTGTC CCTGTACTTTCCAAGAGAG	
11443	I		A	GAGTGCATTCATACTTGCAATAATTTTTTCATTGGCCAGAGACATTTTTAGACA	
11443	P	C	A	ATGACGTGGCAGACCCGTCTTTTCCTAATCATAATAGTY	
11443	P	T	A	CGCGCCGAGGTCGTCTTTTCCTAATCATAATAGTAY	
11443	T	C	A	TAATTACTATTATGATTAGGAAAAGACGGGTCTAAAAATGTCTCTGGCCAATGAAAAAATTATTGCAAGTATGAATGCACTCAG	
11443	T	T	A	TAATTACTATTATGATTAGGAAAAGACGAGTCTAAAAATGTCTCTGGCCAATGAAAAAATTATTGCAAGTATGAATGCACTCAG	
11443	IS	[CT]		AGATCCTGAGTGCATTCATACTTGCAATAATTTTTTCATTGGCCAGAGACATTTTTAGAC[CT]CGTCTTTTCCTAATCATAATAGTAATTATCATCCATTTCATA CCTTCTTTATGTCACTCA	
11453	I		S	GCCACTCAGAGACTTGTTGAAAACAGCTCCCTCAA	
11453	P	A	S	CGCGCCGAGGTCATTGCTGTAGTCCGAY	
11453	P	G	S	ATGACGTGGCAGACCCATTGCTGTAGTCCGY	
11453	T	A	S	GCCATCGGACTACAGCAATGATGAGGGAGCTGTTTTCAACAAGTCTCTGAGTGGCAG	
11453	T	G	S	GCCATCGGACTACAGCAATGGTGAGGGAGCTGTTTTCAACAAGTCTCTGAGTGGCAG	
11453	IS	[AG]		TTCGAGTCTCCTTGGATCAAGATGTGGAGACTGAGACTGAGCCATCGGACTACAGCAATG[AG]TGAGGGAGCTGTTTTCAACAAGTCTCTGAGTGGCAGCC AGACTTCCAGTGCTTGGAGCAA	
11528	I		S	GCAGAAAGGCTACCATCACTGCACTGAGAATAACAAGAAT	
11528	P	C	S	ATGACGTGGCAGACGATCTGTAACATTGGCCATY	
11528	P	T	S	CGCGCCGAGGAATCTGTAACATTGGCCATY	
11528	T	C	S	AGCCATGGCCAATGTTACAGATCTTCTTGTTATTCTCAGTGCAGTGATGGTAGCCTTTCTGCCC	
11528	T	T	S	AGCCATGGCCAATGTTACAGATTTTCTTGTTATTCTCAGTGCAGTGATGGTAGCCTTTCTGCCC	
11528	IS	[CT]		GGCATTGTTCTTGATCCATTTTTCATCCTTCGTAAGGTAGCCATGGCCAATGTTACAGAT[CT]TTCTTGTTATTCTCAGTGCAGTGATGGTAGCCTTTCTGCC CAGCACATGCCACAGAGAAG	
11556	I		A	GGGGCCGAGACTCAGGGCTCACAA	
11556	P	T	A	CGCGCCGAGGTTGCCCCCACGCY	
11556	P	C	A	ATGACGTGGCAGACCTGCCCCCACGCY	
11556	T	T	A	CTCGGCGTGGGGGCAATGTGAGCCCTGAGTCTCGGCCCCAG	
11556	T	C	A	CTCGGCGTGGGGGCAGTGTGAGCCCTGAGTCTCGGCCCCAG	
11556	IS	[TC]		CACCACATCCTCAGGACAGGCCAAGGTGAGGGCACCTGGGGCCGAGACTCAGGGCTCACA[TC]TGCCCCCACGCCGAGATGCCCCCGGGCAGCAGGGCA CACCCTACCTGCGCGGCCACGCCG	
11580	I		A	GAGGCTCTGGGCTGCCCTGTCGT	
11580	P	G	A	ATGACGTGGCAGACGCTCCTTGAGGGCGY	
11580	P	A	A	CGCGCCGAGGACTCCTTGAGGGCGY	
11580	T	G	A	ATCCCGCCCTCAAGGAGCCGACAGGGCAGCCCAGAGCCTCCC	
11580	T	A	A	ATCCCGCCCTCAAGGAGTCGACAGGGCAGCCCAGAGCCTCCC	
11580	IS	[GA]		TCCCAGTATCTTGAGTGGGTGACCACACTTGTCAGTGGGAGGCTCTGGGCTGCCCTGTCG[GA]CTCCTTGAGGGCGGGATGAACTGCTTTGTGACTTGGA AAGGTACGCTGCTGGCCAGCATT	FLJ11282
11607	I		S	CCGCCCTCGGCTGAAGCCCCC	
11607	P	C	S	ATGACGTGGCAGACGCCCTCTGCTTCCTY	
11607	P	A	S	CGCGCCGAGGTCCCTCTGCTTCCTGY	
11607	T	C	S	AGAGCAGGAAGCAGAGGGCGGGGCTTCAGCCGAGGGCGGGG	
11607	T	A	S	AGAGCAGGAAGCAGAGGGAGGGGCTTCAGCCGAGGGCGGGG	
11607	IS	[CA]		GCAGCGGGACGCTGGGTTCTGGAGGCTCCAGCGGCTCCCCTAAGAGCAGGAAGCAGAGGG[CA]GGGGCTTCAGCCGAGGGCGGGGCTTTGGCCTCAGG CGGGGCTTCGGCCGCCCCCAGCTCC	
11622	I		S	GTTCATCAGTATCTTTCTCTACCTCCCTCTCCTGGGTACT	
11622	P	G	S	CGCGCCGAGGCAACAGATGCCCATTCTY	
11622	P	C	S	ATGACGTGGCAGACGAACAGATGCCCATTCTGY	
11622	T	G	S	TCTCCAGAATGGGCATCTGTTGGTACCCAGGAGAGGGAGGTAGAGAAAGATACTGATGAACCT	
11622	T	C	S	TCTCCAGAATGGGCATCTGTTCGTACCCAGGAGAGGGAGGTAGAGAAAGATACTGATGAACCT	
11622	IS	[GC]		TAGAGGAAAGGTCTGACAATGCCCACTGAGCCCTGATGGTCTCCAGAATGGGCATCTGTT[GC]GTACCCAGGAGAGGGAGGTAGAGAAAGATACTGATGAA CCTGGAGTAAGGCCCTGTGGTC	
11662	I		S	CACACACGATCTTGATAGGTCCACTTAATCACATACCTGAATCACT	
11662	P	T	S	CGCGCCGAGGATAGGGAGCACTGATAGACY	
11662	P	C	S	ATGACGTGGCAGACGTAGGGAGCACTGATAGAY	
11662	T	T	S	TGCAGTCTATCAGTGCTCCCTATGTGATTCAGGTATGTGATTAAGTGGACCTATCAAGATCGTGTGTGGT	
11662	T	C	S	TGCAGTCTATCAGTGCTCCCTACGTGATTCAGGTATGTGATTAAGTGGACCTATCAAGATCGTGTGTGGT	

FIGURE 129E

			GAATTCCTGGTCATTATTCCTTAGCCTGGCATGCTGCCTGCAGTCTATCAGTGCTCCCTA[TC]GTGATTCAGGTATGTGATTAAGTGGACCTATCAAGATCGT
11662 IS	[TC]		GTGTGGTTAAAAACAAGACT
11752 I		A	GGGATTGGCAGTCATGCTCTCCTGGCAGC
11752 P	T	A	CGCGCCGAGGTACACTCTCCCACCTGY
11752 P	G	A	ATGACGTGGCAGACGACACTCTCCCACCTGY
11752 T	T	A	GGCACAGGTGGGAGAGTGTACTGCCAGGAGAGCATGACTGCCAATCCCGG
11752 T	G	A	GGCACAGGTGGGAGAGTGTCCTGCCAGGAGAGCATGACTGCCAATCCCGG
			CCCTGGCTTCAGGATCCTCAGGGCTTCTACCCGGGATTGGCAGTCATGCTCTCCTGGCAG[TG]ACACTCTCCCACCTGTGCCACCCACCCACCCACCCACC
11752 IS	[TG]		CATCCCGCTTTACAGAAAGCCC
11766 I		S	CCAATCCCACATTGGCGTGGTGCATCTT
11766 P	G	S	CGCGCCGAGGCCCCATTCCTCCTTGGY
11766 P	C	S	ATGACGTGGCAGACGCCCATTCCTCCTTGY
11766 T	G	S	CAGCCCAAGGAGGAATGGGGAGATGCACCACGCCAATGTGGGATTGGCA
11766 T	C	S	CAGCCCAAGGAGGAATGGGCAGATGCACCACGCCAATGTGGGATTGGCA
			GAGCCTTGCATTGAGCCAAGGCCTCCAGGGGCACCCCCATGCAGCCCAAGGAGGAATGGG[GC]AGATGCACCACGCCAATGTGGGATTGGCAGGATGGA
11766 IS	[GC]		GTCCACACAGCGGCCCGGGGGTGC
11807 I		S	ACCCTGGCTACTCCTCCATCCCACCTT
11807 P	T	S	CGCGCCGAGGATTTTCCAGCTCTGTTTGAY
11807 P	C	S	ATGACGTGGCAGACGTTTTCCAGCTCTGTTTGAY
11807 T	T	S	CAGTTCAAACAGAGCTGGAAAATAGGTGGGATGGAGGAGTAGCCAGGGTTC
11807 T	C	S	CAGTTCAAACAGAGCTGGAAAACAGGTGGGATGGAGGAGTAGCCAGGGTTC
			GAATGTTGTCATCGTTGCTGTTGGTTTTCTCCCCTTTCCAGTTCAAACAGAGCTGGAAAA[TC]AGGTGGGATGGAGGAGTAGCCAGGGTTCAACACCACAG
11807 IS	[TC]		CGGCCTGCAGTTTGGCTGGGAA
11840 I		S	CCCCCACACTGTGTGCTCGGCACT
11840 P	C	S	ATGACGTGGCAGACGGGCCCACGGCY
11840 P	T	S	CGCGCCGAGGAGGCCCACGGCY
11840 T	C	S	AGCCGCCGTGGGCCCGTGCCGAGCACACAGTGTGGGGGCT
11840 T	T	S	AGCCGCCGTGGGCCTGTGCCGAGCACACAGTGTGGGGGCT
			TCAGTGGACTAAGAAAGATGGTTTTGGCATCTGTGTCTGGTCTCAGAGCCGCCGTGGGCC[CT]GTGCCGAGCACACAGTGTGGGGGCTTTGTCCTCTGAG
11840 IS	[CT]		CACGAGCGGTGTGTGCGGACCGC
11859 I		S	GGAGGGAGGTAGAATCCCCTGGCGGTTAC
11859 P	A	S	CGCGCCGAGGTTCTTGGATCTAGAGCACAY
11859 P	C	S	ATGACGTGGCAGACGTCTTGGATCTAGAGCACAY
11859 T	A	S	CAGTTGTGCTCTAGATCCAAGAATAACCGCCAGGGGATTCTACCTCCCTCCCT
11859 T	C	S	CAGTTGTGCTCTAGATCCAAGACTAACCGCCAGGGGATTCTACCTCCCTCCCT
			CTCCCCAGCACACCCGGCCCCCTGCACCCCGGTACACACAGTTGTGCTCTAGATCCAAGA[AC]TAACCGCCAGGGGATTCTACCTCCCTCCCTTAGGTGTT
11859 IS	[AC]		TTCTCTGGCTGGCTCTACCTTT
11873 I		S	CAGGTGCCAAGCCTCTGAACTTCTCCTCAGT
11873 P	T	S	CGCGCCGAGGACAGTTCTCAGCAATGCY
11873 P	C	S	ATGACGTGGCAGACGCAGTTCTCAGCAATGCY
11873 T	T	S	GCCAGCATTGCTGAGAACTGTCTGAGGAGAAGTTCAGAGGCTTGGCACCTGCT
11873 T	C	S	GCCAGCATTGCTGAGAACTGCCTGAGGAGAAGTTCAGAGGCTTGGCACCTGCT
			GACCCTGAAGTGCACAGGGTCCCCCTGTGGGTTTGCACTTGCCAGCATTGCTGAGAACTG[TC]CTGAGGAGAAGTTCAGAGGCTTGGCACCTGCTCTGGA
11873 IS	[TC]		AGCTACTCTGGAATCTTAATTCT
11913 I		A	GAGTGCCATCTATCACACACCCAACATCAGTTGTGC
11913 P	T	A	CGCGCCGAGGTCTGTTGCACGGTGGY
11913 P	G	A	ATGACGTGGCAGACGCTGTTGCACGGTGY
11913 T	T	A	ATGACCACCGTGCAACAGACACAACTGATGTTGGGTGTGTGATAGATGGCACTCCT
11913 T	G	A	ATGACCACCGTGCAACAGCCACAACTGATGTTGGGTGTGTGATAGATGGCACTCCT
			TTACAGAAGTTTCCATGAACACAAGGAGTGCCATCTATCACACACCCAACATCAGTTGTG[TG]CTGTTGCACGGTGGTCATCCAGTCCAAAACACTGAAATC
11913 IS	[TG]		CTCCTGTCACTGAGTGATGGA
11942 I		S	GGCCGCGGCCTGGGGCT
11942 P	T	S	CGCGCCGAGGAGAGCCTCCCCTCAY
11942 P	C	S	ATGACGTGGCAGACGGAGCCTCCCCTCAY
11942 T	T	S	CTGGTGAGGGGAGGCTCTGCCCCAGGCCGCGGCCTT
11942 T	C	S	CTGGTGAGGGGAGGCTCCGCCCCAGGCCGCGGCCTT
			TGACCAACGAGACGGTCAACATCTGGACTCACTTCCTGCCCACCTGGTGAGGGGAGGCTC[TC]GCCCCAGGCCGCGGCCTTGAGCTCAGAGGGGGTACC
11942 IS	[TC]		CAGGCGGGCAGGGACCGTCCAGGC
11944 I		A	GAGTGTGGGTCCTCCCTAAACCAAGGTACACAT
11944 P	G	A	ATGACGTGGCAGACGAGGTACACAGGCACAY
11944 P	A	A	CGCGCCGAGGAAGGTACACAGGCACAY
11944 T	G	A	CACCTGTGCCTGTGTACCTCTGTGTACCTTGGTTTAGGGAGGACCCACACTCCC
11944 T	A	A	CACCTGTGCCTGTGTACCTTTGTGTACCTTGGTTTAGGGAGGACCCACACTCCC
			AGCTGAATTTGAGATACACCTGTGGCGGGAGTGTGGGTCCTCCCTAAACCAAGGTACACA[GA]AGGTACACAGGCACAGGTGTGCACACACGTGCACCAG
11944 IS	[GA]		CTCAGACACACAGGCTGGAACAT
11950 I		A	GCGTCATTGGTTATGTCTTTCCCAGATGCCTGGA
11950 P	C	A	ATGACGTGGCAGACCTCATGTGATGTGGTTCTAAY
11950 P	T	A	CGCGCCGAGGTTCATGTGATGTGGTTCTAAAY
11950 T	C	A	AAAGTTTAGAACCACATCACATGAGCCAGGCATCTGGGAAAGACATAACCAATGACGCTA
11950 T	T	A	AAAGTTTAGAACCACATCACATGAACCAGGCATCTGGGAAAGACATAACCAATGACGCTA
			CTAAATCTGCAACATGTTGGAGGGTTAGCGTCATTGGTTATGTCTTTCCCAGATGCCTGG[CT]TCATGTGATGTGGTTCTAAACTTTCTTTCTATTACTATGT
11950 IS	[CT]		GACTTGATCCTTGGTTTGTA
11967 I		S	CGTCCTGGTGAGTACCTGGGGGCTTTT
11967 P	C	S	ATGACGTGGCAGACGGGGGGTTAACATCCAY
11967 P	G	S	CGCGCCGAGGCGGGGGTTAACATCCAY
11967 T	C	S	CTCATGGATGTTAACCCCCCAAAGCCCCCAGGTACTCACCAGGACGAA
11967 T	G	S	CTCATGGATGTTAACCCCCGAAAGCCCCCAGGTACTCACCAGGACGAA
			AGGTCGGCCATTGGGCTTTGCCTCCGCCTTCGGACCCGCAGCTCATGGATGTTAACCCCC[CG]AAAGCCCCCAGGTACTCACCAGGACGAAGCCAACTTC
11967 IS	[CG]		ACCGCGGGTCAGCGACACAGAGT
12049 I		S	CTCCCCATTTTCCTTCGGTGTTTAACCTGTTCTTCCTTTAAAATTCT
12049 P	T	S	CGCGCCGAGGAGCTTTTCCTTTAAAATCCAGY
12049 P	C	S	ATGACGTGGCAGACGGCTTTTCCTTTAAAATCCAGY
12049 T	T	S	CAGGCTGGATTTTAAAGGAAAAGCTGAATTTTAAAGGAAGAACAGGTTAAACACCGAAGGAAAATGGGGAGGA
12049 T	C	S	CAGGCTGGATTTTAAAGGAAAAGCCGAATTTTAAAGGAAGAACAGGTTAAACACCGAAGGAAAATGGGGAGGA
			GCCTGCAGCGCCACAGAAGTCTTCATTGGGGAGCTCCAGGCTGGATTTTAAAGGAAAAGC[TC]GAATTTTAAAGGAAGAACAGGTTAAACACCGAAGGAAAA
12049 IS	[TC]		TGGGGAGGAGTGAATGTTTCA
12081 I		A	TCCCCTTTGTCCCCTAAGCATCACCTGCA
12081 P	C	A	ATGACGTGGCAGACCCCAGCTGTGATGGGY
12081 P	T	A	CGCGCCGAGGTCCAGCTGTGATGGGY
12081 T	C	A	ACAGCCCATCACAGCTGGGGCAGGTGATGCTTAGGGGACAAAGGGGACG
12081 T	T	A	ACAGCCCATCACAGCTGGAGCAGGTGATGCTTAGGGGACAAAGGGGACG
			CTTTTCCTGTGCTGTTTCATTCACTGTCTCCGTCCCCTTTGTCCCCTAAGCATCACCTGC[CT]CCAGCTGTGATGGGCTGTAACCTAGGTTAGGACTCAGAG
12081 IS	[CT]		ATGGGGTCGGGGTCAGGGTAC
12126 I		S	TCGTCCTCCAGGGTCCCACTGCCA
12126 P	G	S	ATGACGTGGCAGACCGCCTCCGACATGAY
12126 P	A	S	CGCGCCGAGGTGCCTCCGACATGACY
12126 T	G	S	CACAGTCATGTCGGAGGCGGGCAGTGGGACCCTGGAGGACGAGT
12126 T	A	S	CACAGTCATGTCGGAGGCAGGCAGTGGGACCCTGGAGGACGAGT

FIGURE 129E

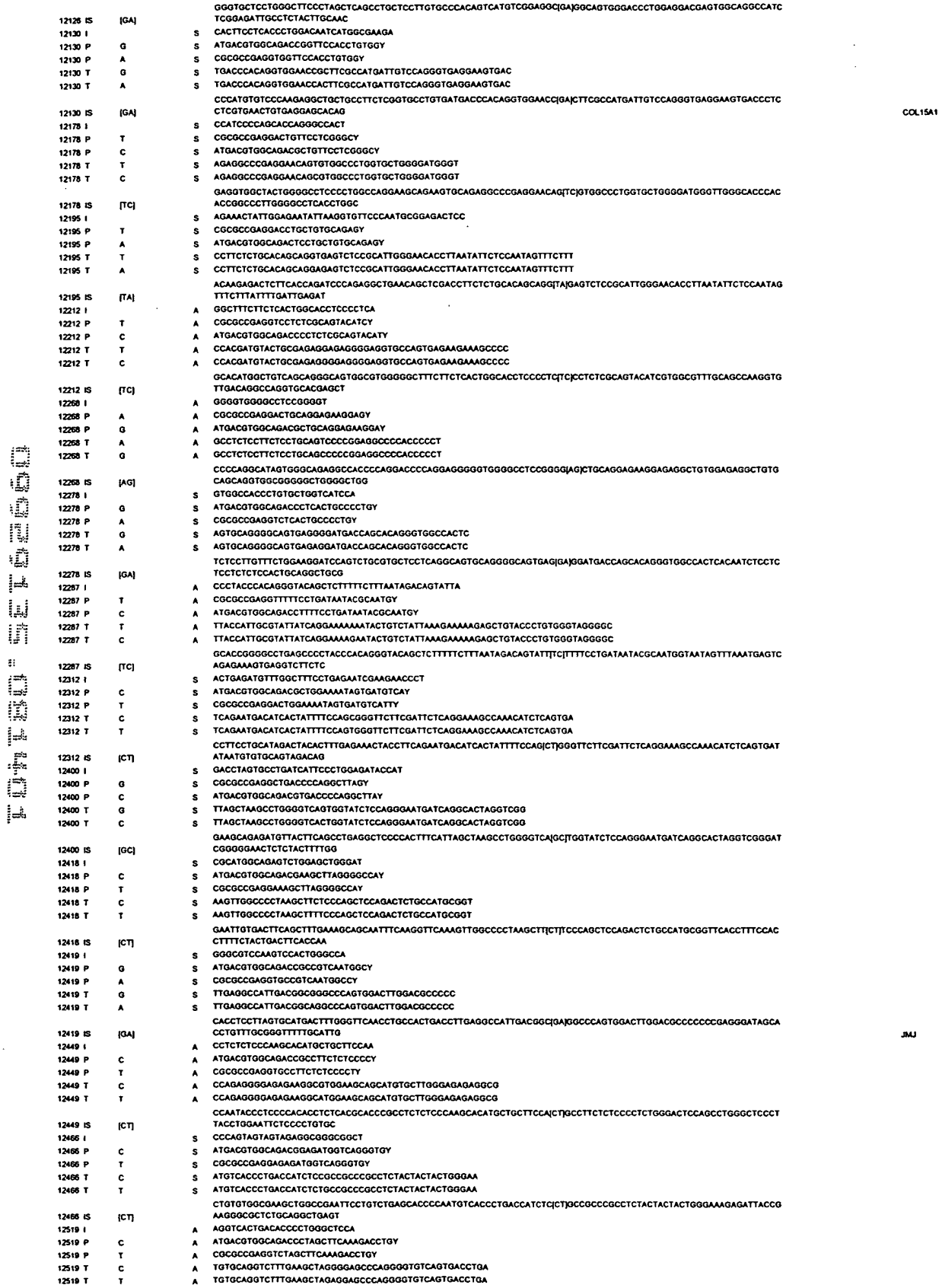

GGGTGCTCCTGGGCTTCCCTAGCTCAGCCTGCTCCTTGTGCCCACAGTCATGTCGGAGGC[GA]GGCAGTGGGACCCTGGAGGACGAGTGGCAGGCCATC
12126 IS [GA] TCGGAGATTGCCTCTACTTGCAAC
12130 I S CACTTCCTCACCCTGGACAATCATGGCGAAGA
12130 P G S ATGACGTGGCAGACCGGTTCCACCTGTGGY
12130 P A S CGCGCCGAGGTGGTTCCACCTGTGGY
12130 T G S TGACCCACAGGTGGAACCGCTTCGCCATGATTGTCCAGGGTGAGGAAGTGAC
12130 T A S TGACCCACAGGTGGAACCACTTCGCCATGATTGTCCAGGGTGAGGAAGTGAC
CCCATGTGTCCCAAGAGGCTGCTGCCTTCTCGGTGCCTGTGATGACCCACAGGTGGAACC[GA]CTTCGCCATGATTGTCCAGGGTGAGGAAGTGACCCTC
12130 IS [GA] CTCGTGAACTGTGAGGAGCACAG COL15A1
12178 I S CCATCCCCAGCACCAGGGCCACT
12178 P T S CGCGCCGAGGACTGTTCCTCGGGCY
12178 P C S ATGACGTGGCAGACGCTGTTCCTCGGGCY
12178 T T S AGAGGCCCGAGGAACAGTGTGGCCCTGGTGCTGGGGATGGGT
12178 T C S AGAGGCCCGAGGAACAGCGTGGCCCTGGTGCTGGGGATGGGT
GAGGTGGCTACTGGGGCCTCCCCTGGCCAGGAAGCAGAAGTGCAGAGGCCCGAGGAACAG[TC]GTGGCCCTGGTGCTGGGGATGGGTTGGGCACCCAC
12178 IS [TC] ACCGGCCCTTGGGGCCTCACCTGGC
12195 I S AGAAACTATTGGAGAATATTAAGGTGTTCCCAATGCGGAGACTCC
12195 P T S CGCGCCGAGGACCTGCTGTGCAGAGY
12195 P A S ATGACGTGGCAGACTCCTGCTGTGCAGAGY
12195 T T S CCTTCTCTGCACAGCAGGTGAGTCTCCGCATTGGGAACACCTTAATATTCTCCAATAGTTTCTTT
12195 T A S CCTTCTCTGCACAGCAGGAGAGTCTCCGCATTGGGAACACCTTAATATTCTCCAATAGTTTCTTT
ACAAGAGACTCTTCACCAGATCCCAGAGGCTGAACAGCTCGACCTTCTCTGCACAGCAGG[TA]GAGTCTCCGCATTGGGAACACCTTAATATTCTCCAATAG
12195 IS [TA] TTTCTTTATTTTGATTGAGAT
12212 I A GGCTTTCTTCTCACTGGCACCTCCCCTCA
12212 P T A CGCGCCGAGGTCCTCTCGCAGTACATCY
12212 P C A ATGACGTGGCAGACCCCTCTCGCAGTACATY
12212 T T A CCACGATGTACTGCGAGAGGAGAGGGGAGGTGCCAGTGAGAAGAAAGCCCC
12212 T C A CCACGATGTACTGCGAGAGGGGAGGGGAGGTGCCAGTGAGAAGAAAGCCCC
GCACATGGCTGTCAGCAGGGCAGTGGCGTGGGGGCTTTCTTCTCACTGGCACCTCCCCT[CT]C[CT]CCTCTCGCAGTACATCGTGGCGTTTGCAGCCAAGGTG
12212 IS [TC] TTGACAGGCCAGGTGCACGAGCT
12268 I A GGGGTGGGGCCTCCGGGGT
12268 P A A CGCGCCGAGGACTGCAGGAGAAGGAGY
12268 P G A ATGACGTGGCAGACGCTGCAGGAGAAGGAY
12268 T A A GCCTCTCCTTCTCCTGCAGTCCCCGGAGGCCCCACCCCCT
12268 T G A GCCTCTCCTTCTCCTGCAGCCCCCGGAGGCCCCACCCCCT
CCCCAGGCATAGTGGGCAGAGGCCACCCCAGGACCCCAGGAGGGGGTGGGGCCTCCGGGG[AG]CTGCAGGAGAAGGAGAGGCTGTGGAGAGGCTGTG
12268 IS [AG] CAGCAGGTGGCGGGGGGCTGGGGCTGG
12278 I S GTGGCCACCCTGTGCTGGTCATCCA
12278 P G S ATGACGTGGCAGACCCTCACTGCCCCTGY
12278 P A S CGCGCCGAGGTCTCACTGCCCCTGY
12278 T G S AGTGCAGGGGCAGTGAGGGGATGACCAGCACAGGGTGGCCACTC
12278 T A S AGTGCAGGGGCAGTGAGAGGATGACCAGCACAGGGTGGCCACTC
TCTCCTTGTTTCTGGAAGGATCCAGTCTGCGTGCTCCTCAGGCAGTGCAGGGGCAGTGAG[GA]GGATGACCAGCACAGGGTGGCCACTCACAATCTCCTC
12278 IS [GA] TCCTCTCTCCACTGCAGGCTGCG
12287 I A CCCTACCCACAGGGTACAGCTCTTTTTCTTTAATAGACAGTATTA
12287 P T A CGCGCCGAGGTTTTTCCTGATAATACGCAATGY
12287 P C A ATGACGTGGCAGACCTTTTCCTGATAATACGCAATGY
12287 T T A TTACCATTGCGTATTATCAGGAAAAAAATACTGTCTATTAAAGAAAAAGAGCTGTACCCTGTGGGTAGGGGC
12287 T C A TTACCATTGCGTATTATCAGGAAAAGAATACTGTCTATTAAAGAAAAAGAGCTGTACCCTGTGGGTAGGGGC
GCACCGGGGCCTGAGCCCCTACCCACAGGGTACAGCTCTTTTTCTTTAATAGACAGTATT[TC]TTTTCCTGATAATACGCAATGGTAATAGTTTAAATGAGTC
12287 IS [TC] AGAGAAAGTGAGGTCTTCTC
12312 I S ACTGAGATGTTTGGCTTTCCTGAGAATCGAAGAACCCT
12312 P C S ATGACGTGGCAGACGCTGGAAAATAGTGATGTCAY
12312 P T S CGCGCCGAGGACTGGAAAATAGTGATGTCATTY
12312 T C S TCAGAATGACATCACTATTTTCCAGCGGGTTCTTCGATTCTCAGGAAAGCCAAACATCTCAGTGA
12312 T T S TCAGAATGACATCACTATTTTCCAGTGGGTTCTTCGATTCTCAGGAAAGCCAAACATCTCAGTGA
CCTTCCTGCATAGACTACACTTTGAGAAACTACCTTCAGAATGACATCACTATTTTCCAG[CT]GGGTTCTTCGATTCTCAGGAAAGCCAAACATCTCAGTGAT
12312 IS [CT] ATAATGTGTGCAGTAGACAG
12400 I S GACCTAGTGCCTGATCATTCCCTGGAGATACCAT
12400 P G S CGCGCCGAGGCTGACCCCAGGCTTAGY
12400 P C S ATGACGTGGCAGACGTGACCCCAGGCTTAY
12400 T G S TTAGCTAAGCCTGGGGTCAGTGGTATCTCCAGGGAATGATCAGGCACTAGGTCGG
12400 T C S TTAGCTAAGCCTGGGGTCACTGGTATCTCCAGGGAATGATCAGGCACTAGGTCGG
GAAGCAGAGATGTTACTTCAGCCTGAGGCTCCCCACTTTCATTAGCTAAGCCTGGGGTCA[GC]TGGTATCTCCAGGGAATGATCAGGCACTAGGTCGGGAT
12400 IS [GC] CGGGGGAACTCTCTACTTTTGG
12418 I S CGCATGGCAGAGTCTGGAGCTGGGAT
12418 P C S ATGACGTGGCAGACGAAGCTTAGGGGCCAY
12418 P T S CGCGCCGAGGAAAGCTTAGGGGCCAY
12418 T C S AAGTTGGCCCCTAAGCTTCTCCCAGCTCCAGACTCTGCCATGCGGT
12418 T T S AAGTTGGCCCCTAAGCTTTTCCCAGCTCCAGACTCTGCCATGCGGT
GAATTGTGACTTCAGCTTTGAAAGCAGCAATTTCAAGGTTCAAAGTTGGCCCCTAAGCTT[CT]TCCCAGCTCCAGACTCTGCCATGCGGTTCACCTTTCCAC
12418 IS [CT] CTTTTCTACTGACTTCACCAA
12419 I S GGGCGTCCAAGTCCACTGGGCCA
12419 P G S ATGACGTGGCAGACCGCCGTCAATGGCY
12419 P A S CGCGCCGAGGTGCCGTCAATGGCCY
12419 T G S TTGAGGCCATTGACGGCGGGCCCAGTGGACTTGGACGCCCCC
12419 T A S TTGAGGCCATTGACGGCAGGCCCAGTGGACTTGGACGCCCCC
CACCTCCTTAGTGCATGACTTTGGGTTCAACCTGCCACTGACCTTGAGGCCATTGACGGC[GA]GGCCCAGTGGACTTGGACGCCCCCCCGAGGGATAGCA
12419 IS [GA] CCTGTTTGCGGGTTTTTGCATTG JMJ
12449 I A CCTCTCTCCCAAGCACATGCTGCTTCCAA
12449 P C A ATGACGTGGCAGACCGCCTTCTCTCCCCY
12449 P T A CGCGCCGAGGTGCCTTCTCTCCCCTY
12449 T C A CCAGAGGGGAGAGAAGGCGTGGAAGCAGCATGTGCTTGGGAGAGAGGCG
12449 T T A CCAGAGGGGAGAGAAGGCATGGAAGCAGCATGTGCTTGGGAGAGAGGCG
CCAATACCCTCCCCACACCTCTCACGCACCCGCCTCTCTCCCAAGCACATGCTGCTTCCA[CT]GCCTTCTCTCCCCTCTGGGACTCCAGCCTGGGCTCCCT
12449 IS [CT] TACCTGGAATTCTCCCCTGTGC
12466 I S CCCAGTAGTAGTAGAGGCGGGCGGCT
12466 P C S ATGACGTGGCAGACGGAGATGGTCAGGGTGY
12466 P T S CGCGCCGAGGAGAGATGGTCAGGGTGY
12466 T C S ATGTCACCCTGACCATCTCCGCCGCCCGCCTCTACTACTACTGGGAA
12466 T T S ATGTCACCCTGACCATCTCTGCCGCCCGCCTCTACTACTACTGGGAA
CTGTGTGGCGAAGCTGGCCGAATTCCTGTCTGAGCACCCCAATGTCACCCTGACCATCTC[CT]GCCGCCCGCCTCTACTACTACTGGGAAAGAGATTACCG
12466 IS [CT] AAGGGCGCTCTGCAGGCTGAGT
12519 I A AGGTCACTGACACCCCTGGGCTCCA
12519 P C A ATGACGTGGCAGACCCTAGCTTCAAAGACCTGY
12519 P T A CGCGCCGAGGTCTAGCTTCAAAGACCTGY
12519 T C A TGTGCAGGTCTTTGAAGCTAGGGGAGCCCAGGGGTGTCAGTGACCTGA
12519 T T A TGTGCAGGTCTTTGAAGCTAGAGGAGCCCAGGGGTGTCAGTGACCTGA

FIGURE 129E

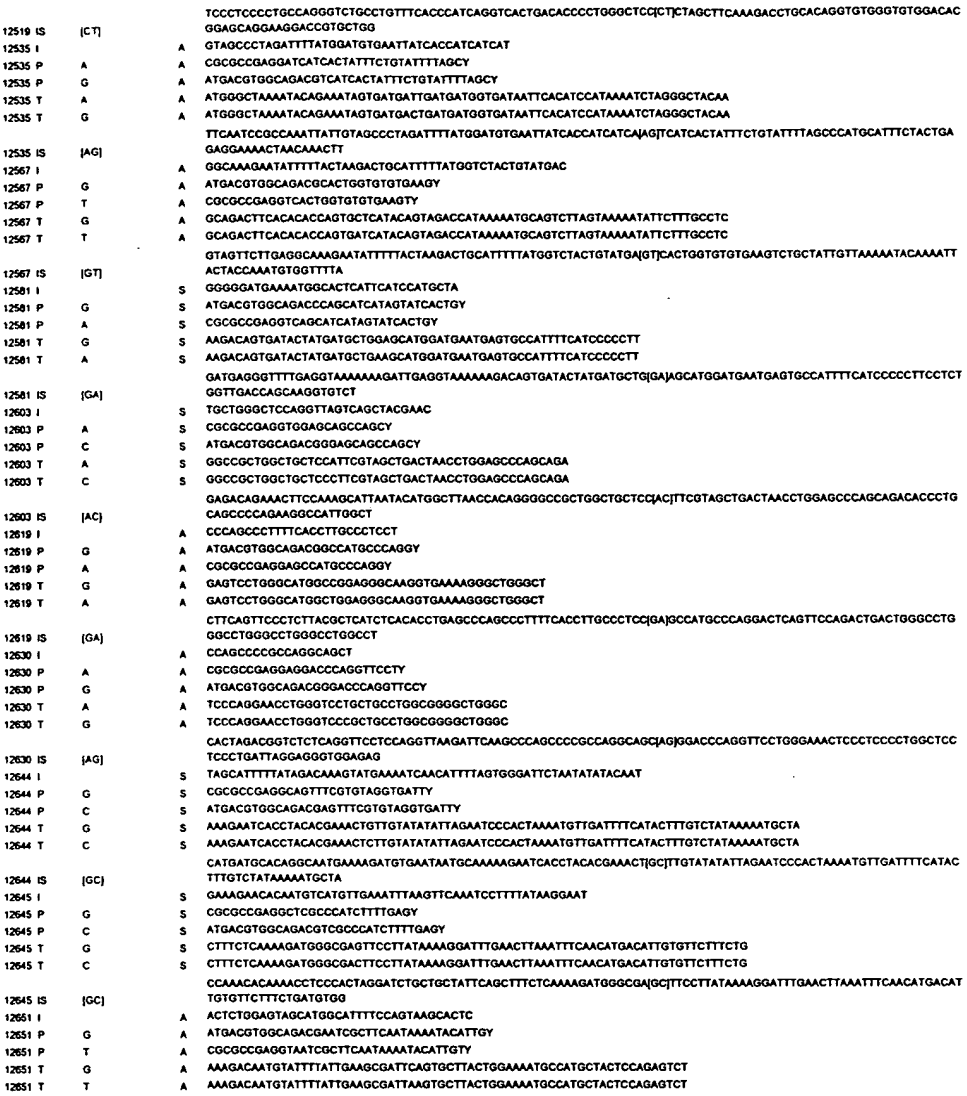

TCCCTCCCCTGCCAGGGTCTGCCTGTTTCACCCATCAGGTCACTGACACCCCTGGGCTCC[CT]CTAGCTTCAAAGACCTGCACAGGTGTGGGTGTGGACAC
12519 IS [CT] GGAGCAGGAAGGACCGTGCTGG
12535 I A GTAGCCCTAGATTTTATGGATGTGAATTATCACCATCATCAT
12535 P A A CGCGCCGAGGATCATCACTATTTCTGTATTTTAGCY
12535 P G A ATGACGTGGCAGACGTCATCACTATTTCTGTATTTTAGCY
12535 T A A ATGGGCTAAAATACAGAAATAGTGATGATTGATGATGGTGATAATTCACATCCATAAAATCTAGGGCTACAA
12535 T G A ATGGGCTAAAATACAGAAATAGTGATGACTGATGATGGTGATAATTCACATCCATAAAATCTAGGGCTACAA
TTCAATCCGCCAAATTATTGTAGCCCTAGATTTTATGGATGTGAATTATCACCATCATC[AG]TCATCACTATTTCTGTATTTTAGCCCATGCATTTCTACTGA
12535 IS [AG] GAGGAAAACTAACAAACTT
12567 I A GGCAAAGAATATTTTTACTAAGACTGCATTTTTATGGTCTACTGTATGAC
12567 P G A ATGACGTGGCAGACGCACTGGTGTGTGAAGY
12567 P T A CGCGCCGAGGTCACTGGTGTGTGAAGTY
12567 T G A GCAGACTTCACACACCAGTGCTCATACAGTAGACCATAAAAATGCAGTCTTAGTAAAAATATTCTTTGCCTC
12567 T T A GCAGACTTCACACACCAGTGATCATACAGTAGACCATAAAAATGCAGTCTTAGTAAAAATATTCTTTGCCTC
GTAGTTCTTGAGGCAAAGAATATTTTTTACTAAGACTGCATTTTTATGGTCTACTGTATGA[GT]CACTGGTGTGTGAAGTCTGCTATTGTTAAAAATACAAAATT
12567 IS [GT] ACTACCAAATGTGGTTTTA
12581 I S GGGGGATGAAAATGGCACTCATTCATCCATGCTA
12581 P G S ATGACGTGGCAGACCCAGCATCATAGTATCACTGY
12581 P A S CGCGCCGAGGTCAGCATCATAGTATCACTGY
12581 T G S AAGACAGTGATACTATGATGCTGGAGCATGGATGAATGAGTGCCATTTTCATCCCCCTT
12581 T A S AAGACAGTGATACTATGATGCTGAAGCATGGATGAATGAGTGCCATTTTCATCCCCCTT
GATGAGGGTTTTGAGGTAAAAAAAGATTGAGGTAAAAAAGACAGTGATACTATGATGCTG[GA]AGCATGGATGAATGAGTGCCATTTTCATCCCCCTTCCTCT
12581 IS [GA] GGTTGACCAGCAAGGTGTCT
12603 I S TGCTGGGCTCCAGGTTAGTCAGCTACGAAC
12603 P A S CGCGCCGAGGTGGAGCAGCCAGCY
12603 P C S ATGACGTGGCAGACGGGAGCAGCCAGCY
12603 T A S GGCCGCTGGCTGCTCCATTCGTAGCTGACTAACCTGGAGCCCAGCAGA
12603 T C S GGCCGCTGGCTGCTCCCTTCGTAGCTGACTAACCTGGAGCCCAGCAGA
GAGACAGAAACTTCCAAAGCATTAATACATGGCTTAACCACAGGGGCCGCTGGCTGCTCC[AC]TTCGTAGCTGACTAACCTGGAGCCCAGCAGACACCCTG
12603 IS [AC] CAGCCCCAGAAGGCCATTGGCT
12619 I A CCCAGCCCTTTTCACCTTGCCCTCCT
12619 P G A ATGACGTGGCAGACGGCCATGCCCAGGY
12619 P A A CGCGCCGAGGAGCCATGCCCAGGY
12619 T G A GAGTCCTGGGCATGGCCGGAGGGCAAGGTGAAAAGGGCTGGGCT
12619 T A A GAGTCCTGGGCATGGCTGGAGGGCAAGGTGAAAAGGGCTGGGCT
CTTCAGTTCCCTCTTACGCTCATCTCACACCTGAGCCCAGCCCTTTTCACCTTGCCCTCC[GA]GCCATGCCCAGGACTCAGTTCCAGACTGACTGGGCCTG
12619 IS [GA] GGCCTGGGCCTGGGCCTGGCCT
12630 I A CCAGCCCCGCCAGGCAGCT
12630 P A A CGCGCCGAGGAGGACCCAGGTTCCTY
12630 P G A ATGACGTGGCAGACGGGACCCAGGTTCCY
12630 T A A TCCCAGGAACCTGGGTCCTGCTGCCTGGCGGGGCTGGGC
12630 T G A TCCCAGGAACCTGGGTCCCGCTGCCTGGCGGGGCTGGGC
CACTAGACGGTCTCTCAGGTTCCTCCAGGTTAAGATTCAAGCCCAGCCCCGCCAGGCAGC[AG]GGACCCAGGTTCCTGGGAAACTCCCTCCCCTGGCTCC
12630 IS [AG] TCCCTGATTAGGAGGGTGGAGAG
12644 I S TAGCATTTTTATAGACAAAGTATGAAAATCAACATTTTAGTGGGATTCTAATATATACAAT
12644 P G S CGCGCCGAGGCAGTTTCGTGTAGGTGATTY
12644 P C S ATGACGTGGCAGACGAGTTTCGTGTAGGTGATTY
12644 T G S AAAGAATCACCTACACGAAACTGTTGTATATATTAGAATCCCACTAAAATGTTGATTTTCATACTTTGTCTATAAAAATGCTA
12644 T C S AAAGAATCACCTACACGAAACTCTTGTATATATTAGAATCCCACTAAAATGTTGATTTTCATACTTTGTCTATAAAAATGCTA
CATGATGCACAGGCAATGAAAAGATGTGAATAATGCAAAAAGAATCACCTACACGAAACT[GC]TTGTATATATTAGAATCCCACTAAAATGTTGATTTTCATAC
12644 IS [GC] TTTGTCTATAAAAATGCTA
12645 I S GAAAGAACACAATGTCATGTTGAAATTTAAGTTCAAATCCTTTTATAAGGAAT
12645 P G S CGCGCCGAGGCTCGCCCATCTTTTGAGY
12645 P C S ATGACGTGGCAGACGTCGCCCATCTTTTGAGY
12645 T G S CTTTCTCAAAAGATGGGCGAGTTCCTTATAAAAGGATTTGAACTTAAATTTCAACATGACATTGTGTTCTTTCTG
12645 T C S CTTTCTCAAAAGATGGGCGACTTCCTTATAAAAGGATTTGAACTTAAATTTCAACATGACATTGTGTTCTTTCTG
CCAAACACAAAACCTCCCACTAGGATCTGCTGCTATTCAGCTTTCTCAAAAGATGGGCGA[GC]TTCCTTATAAAAGGATTTGAACTTAAATTTCAACATGACAT
12645 IS [GC] TGTGTTCTTTCTGATGTGG
12651 I A ACTCTGGAGTAGCATGGCATTTTCCAGTAAGCACTC
12651 P G A ATGACGTGGCAGACGAATCGCTTCAATAAAATACATTGY
12651 P T A CGCGCCGAGGTAATCGCTTCAATAAAATACATTGTY
12651 T G A AAAGACAATGTATTTTATTGAAGCGATTCAGTGCTTACTGGAAAATGCCATGCTACTCCAGAGTCT
12651 T T A AAAGACAATGTATTTTATTGAAGCGATTAAGTGCTTACTGGAAAATGCCATGCTACTCCAGAGTCT
ATCTTCACCGATTATCCTGCTTTAGACTCTGGAGTAGCATGGCATTTTCCAGTAAGCACT[GT]AATCGCTTCAATAAAATACATTGTCTTTGTTTTCTTGCCAT
12651 IS [GT] ATATGTTTCTTAGGATTAT
12683 I A CCTATGCTTCCACTATCCGAGGCAAGTGGGT
12683 P G A ATGACGTGGCAGACGAAATCTGAGTCCACCGY
12683 P C A CGCGCCGAGGCAAATCTGAGTCCACCGY
12683 T G A TCAGCGGTGGACTCAGATTTCCCCACTTGCCTCGGATAGTGGAAGCATAGGGG
12683 T C A TCAGCGGTGGACTCAGATTTGCCCACTTGCCTCGGATAGTGGAAGCATAGGGG
CTGGCAGAGCGGCCTACTCTGCTGTTTGCCCCTATGCTTCCACTATCCGAGGCAAGTGGG[GC]AAATCTGAGTCCACCGCTGACAGACTCCCATTAGTGCA
12683 IS [GC] AGATGCGGCCTGGGAGGCGAAT
12707 I A ATTCCTTTGATTAAAAATGTTTATGATGTCTATGCCATTAAAACAAATATTTAAAAAATAC
12707 P T A CGCGCCGAGGTTATCTCCATCTCATCTTGTAAAAY
12707 P G A ATGACGTGGCAGACGTATCTCCATCTCATCTTGTAAAY
12707 T T A AAACTTTTACAAGATGAGATGGAGATAATATTTTTTAAATATTTGTTTTAATGGCATAGACATCATAAACATTTTTAATCAAAGGAAT
12707 T G A AAACTTTTACAAGATGAGATGGAGATACTATTTTTTAAATATTTGTTTTAATGGCATAGACATCATAAACATTTTTAATCAAAGGAAT
ATTCCTTTGATTAAAAATGTTTATGATGTCTATGCCATTAAAACAAATATTTAAAAAATA[TG]TATCTCCATCTCATCTTGTAAAAGTTTGTTTCAGTATGTGTGT
12707 IS [TG] TTTATCACAGGCACAAC
12843 I S TGCACAGAGCAGAGACGATGACGTGCACA
12843 P G S ATGACGTGGCAGACCGAGGAGAAGTTGTTGAGY
12843 P A S CGCGCCGAGGTGAGGAGAAGTTGTTGAGGY
12843 T G S TAAGCCTCAACAACTTCTCCTCGGTGCACGTCATCGTCTCTGCTCTGTGCAGC
12843 T A S TAAGCCTCAACAACTTCTCCTCAGTGCACGTCATCGTCTCTGCTCTGTGCAGC
TGAACCGCACAGCTCATTCTTCCCTCTCCAGGAGTGCCTAAGCCTCAACAACTTCTCCTC[GA]GTGCACGTCATCGTCTCTGCTCTGTGCAGCAACCCAATA
12843 IS [GA] GGTCAGCTACACAAGACGTGG
12889 I A TGTGAGGGCCCCGCCGCTA
12889 P C A ATGACGTGGCAGACCGCCCGTGACACGY
12889 P T A CGCGCCGAGGTGCCCGTGACACGY
12889 T C A GCTGCGTGTCACGGGCGAGCGGCGGGGCCCTCACAGC
12889 T T A GCTGCGTGTCACGGGCAAGCGGCGGGGCCCTCACAGC
GGGACATCGAGGACCCAGAGATCGTCGTCCAGGCCACGGTGCTGTGAGGGCCCCGCCGCT[CT]GCCCGTGACACGCAGCGCGTTGGTGTCTCCGTGTTT
12889 IS [CT] GTCCCTGTGAAAACATGTAACGTC
12901 I A GGATGAGGATCTATCGGAATCCTCTGTCTCCCCAA
12901 P C A ATGACGTGGCAGACCCCACAGTCACTCACTY
12901 P T A CGCGCCGAGGTCCACAGTCACTCACTTAAY
12901 T C A GTCCTTAAGTGAGTGACTGTGGGTGGGGAGACAGAGGATTCCGATAGATCCTCATCCTT

FIGURE 129E

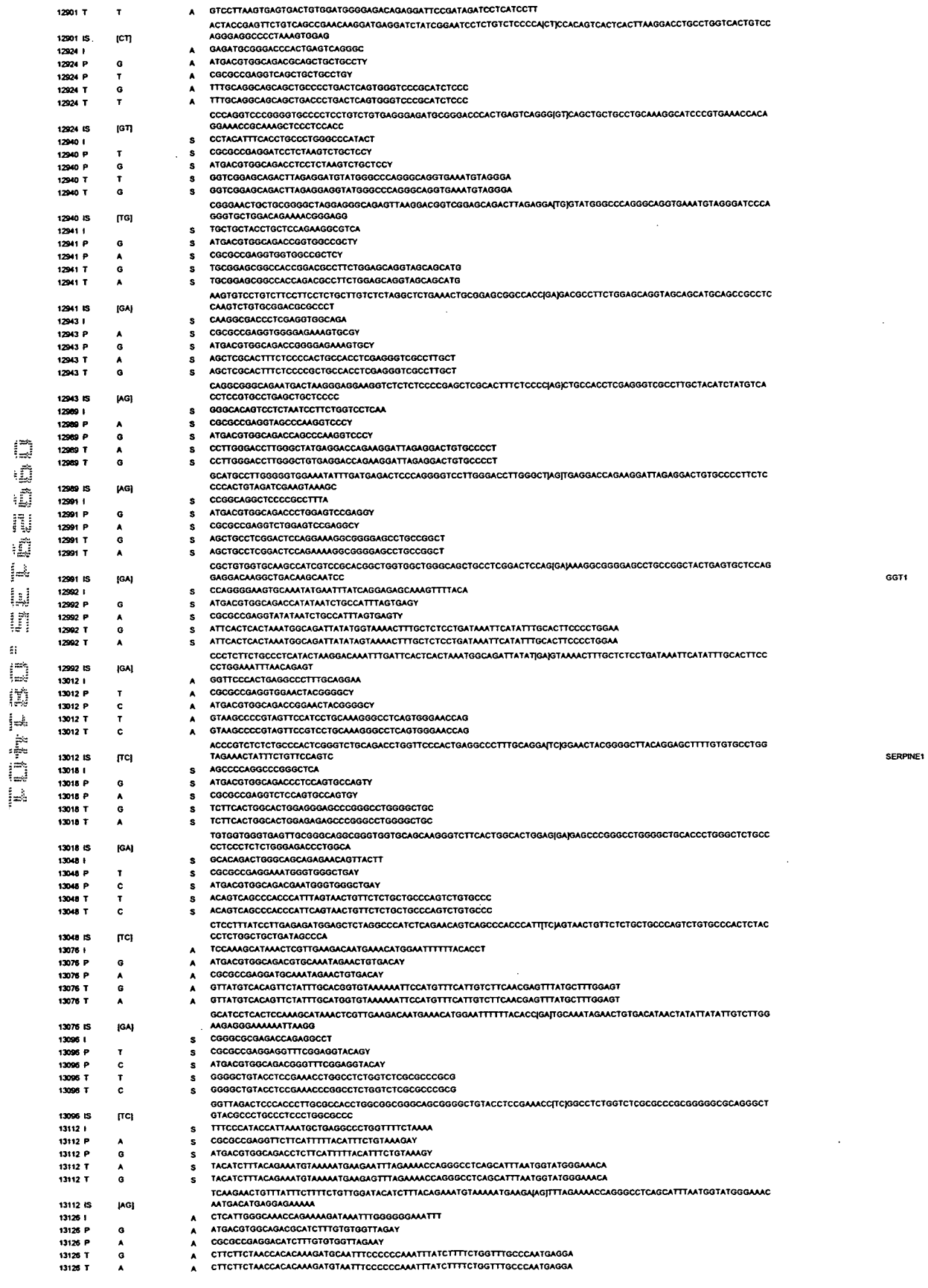
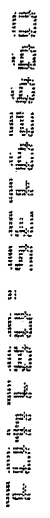

12901 T T A GTCCTTAAGTGAGTGACTGTGGATGGGGAGACAGAGGATTCCGATAGATCCTCATCCTT
ACTACCGAGTTCTGTCAGCCGAACAAGGATGAGGATCTATCGGAATCCTCTGTCTCCCCA[CT]CCACAGTCACTCACTTAAGGACCTGCCTGGTCACTGTCC
12901 IS [CT] AGGGAGGCCCCTAAAGTGGAG
12924 I A GAGATGCGGGACCCACTGAGTCAGGGC
12924 P G A ATGACGTGGCAGACGCAGCTGCTGCCTY
12924 P T A CGCGCCGAGGTCAGCTGCTGCCTGY
12924 T G A TTTGCAGGCAGCAGCTGCCCCTGACTCAGTGGGTCCCGCATCTCCC
12924 T T A TTTGCAGGCAGCAGCTGACCCTGACTCAGTGGGTCCCGCATCTCCC
CCCAGGTCCCGGGGTGCCCCTCCTGTCTGTGAGGGAGATGCGGGACCCACTGAGTCAGGG[GT]CAGCTGCTGCCTGCAAAGGCATCCCGTGAAACCACA
12924 IS [GT] GGAAACCGCAAAGCTCCCTCCACC
12940 I S CCTACATTTCACCTGCCCTGGGCCCATACT
12940 P T S CGCGCCGAGGATCCTCTAAGTCTGCTCCY
12940 P G S ATGACGTGGCAGACCTCCTCTAAGTCTGCTCCY
12940 T T S GGTCGGAGCAGACTTAGAGGATGTATGGGCCCAGGGCAGGTGAAATGTAGGGA
12940 T G S GGTCGGAGCAGACTTAGAGGAGGTATGGGCCCAGGGCAGGTGAAATGTAGGGA
CGGGAACTGCTGCGGGGCTAGGAGGGCAGAGTTAAGGACGGTCGGAGCAGACTTAGAGGA[TG]GTATGGGCCCAGGGCAGGTGAAATGTAGGGATCCCA
12940 IS [TG] GGGTGCTGGACAGAAAACGGGAGG
12941 I S TGCTGCTACCTGCTCCAGAAGGCGTCA
12941 P G S ATGACGTGGCAGACCGGTGGCCGCTY
12941 P A S CGCGCCGAGGTGGTGGCCGCTCY
12941 T G S TGCGGAGCGGCCACCGGACGCCTTCTGGAGCAGGTAGCAGCATG
12941 T A S TGCGGAGCGGCCACCAGACGCCTTCTGGAGCAGGTAGCAGCATG
AAGTGTCCTGTCTTCCTTCCTCTGCTTGTCTCTAGGCTCTGAAACTGCGGAGCGGCCACC[GA]GACGCCTTCTGGAGCAGGTAGCAGCATGCAGCCGCCTC
12941 IS [GA] CAAGTCTGTGCGGACGCGCCCT
12943 I S CAAGGCGACCCTCGAGGTGGCAGA
12943 P A S CGCGCCGAGGTGGGGAGAAAGTGCGY
12943 P G S ATGACGTGGCAGACCGGGGAGAAAGTGCY
12943 T A S AGCTCGCACTTTCTCCCCACTGCCACCTCGAGGGTCGCCTTGCT
12943 T G S AGCTCGCACTTTCTCCCCGCTGCCACCTCGAGGGTCGCCTTGCT
CAGGCGGGCAGAATGACTAAGGGAGGAAGGTCTCTCTCCCCGAGCTCGCACTTTCTCCCC[AG]CTGCCACCTCGAGGGTCGCCTTGCTACATCTATGTCA
12943 IS [AG] CCTCCGTGCCTGAGCTGCTCCCC
12989 I S GGGCACAGTCCTCTAATCCTTCTGGTCCTCAA
12989 P A S CGCGCCGAGGTAGCCCAAGGTCCCY
12989 P G S ATGACGTGGCAGACCAGCCCAAGGTCCCY
12989 T A S CCTTGGGACCTTGGGCTATGAGGACCAGAAGGATTAGAGGACTGTGCCCCT
12989 T G S CCTTGGGACCTTGGGCTGTGAGGACCAGAAGGATTAGAGGACTGTGCCCCT
GCATGCCTTGGGGGTGGAAATATTTGATGAGACTCCCAGGGGTCCTTGGGACCTTGGGCT[AG]TGAGGACCAGAAGGATTAGAGGACTGTGCCCCTTCTC
12989 IS [AG] CCCACTGTAGATCGAAGTAAAGC
12991 I S CCGGCAGGCTCCCCGCCTTTA
12991 P G S ATGACGTGGCAGACCCTGGAGTCCGAGGY
12991 P A S CGCGCCGAGGTCTGGAGTCCGAGGCY
12991 T G S AGCTGCCTCGGACTCCAGGAAAGGCGGGGAGCCTGCCGGCT
12991 T A S AGCTGCCTCGGACTCCAGAAAAGGCGGGGAGCCTGCCGGCT
CGCTGTGGTGCAAGCCATCGTCCGCACGGCTGGTGGCTGGGCAGCTGCCTCGGACTCCAG[GA]AAAGGCGGGGAGCCTGCCGGCTACTGAGTGCTCCAG
12991 IS [GA] GAGGACAAGGCTGACAAGCAATCC GGT1
12992 I S CCAGGGGAAGTGCAAATATGAATTTATCAGGAGAGCAAAGTTTTACA
12992 P G S ATGACGTGGCAGACCATATAATCTGCCATTTAGTGAGY
12992 P A S CGCGCCGAGGTATATAATCTGCCATTTAGTGAGTY
12992 T G S ATTCACTCACTAAATGGCAGATTATATGGTAAAACTTTGCTCTCCTGATAAATTCATATTTGCACTTCCCCTGGAA
12992 T A S ATTCACTCACTAAATGGCAGATTATATAGTAAAACTTTGCTCTCCTGATAAATTCATATTTGCACTTCCCCTGGAA
CCCTCTTCTGCCCTCATACTAAGGACAAATTTGATTCACTCACTAAATGGCAGATTATAT[GA]GTAAAACTTTGCTCTCCTGATAAATTCATATTTGCACTTCC
12992 IS [GA] CCTGGAAATTTAACAGAGT
13012 I A GGTTCCCACTGAGGCCCTTTGCAGGAA
13012 P T A CGCGCCGAGGTGGAACTACGGGGCY
13012 P C A ATGACGTGGCAGACCGGAACTACGGGGCY
13012 T T A GTAAGCCCCGTAGTTCCATCCTGCAAAGGGCCTCAGTGGGAACCAG
13012 T C A GTAAGCCCCGTAGTTCCGTCCTGCAAAGGGCCTCAGTGGGAACCAG
ACCCGTCTCTCTGCCCACTCGGGTCTGCAGACCTGGTTCCCACTGAGGCCCTTTGCAGGA[TC]GGAACTACGGGGCTTACAGGAGCTTTTGTGTGCCTGG
13012 IS [TC] TAGAAACTATTTCTGTTCCAGTC SERPINE1
13018 I S AGCCCCAGGCCCGGGCTCA
13018 P G S ATGACGTGGCAGACCCTCCAGTGCCAGTY
13018 P A S CGCGCCGAGGTCTCCAGTGCCAGTGY
13018 T G S TCTTCACTGGCACTGGAGGGAGCCCGGGCCTGGGGCTGC
13018 T A S TCTTCACTGGCACTGGAGAGAGCCCGGGCCTGGGGCTGC
TGTGGTGGGTGAGTTGCGGGCAGGCGGGTGGTGCAGCAAGGGTCTTCACTGGCACTGGAG[GA]GAGCCCGGGCCTGGGGCTGCACCCTGGGCTCTGCC
13018 IS [GA] CCTCCCTCTCTGGGAGACCCTGGCA
13048 I S GCACAGACTGGGCAGCAGAGAACAGTTACTT
13048 P T S CGCGCCGAGGAAATGGGTGGGCTGAY
13048 P C S ATGACGTGGCAGACGAATGGGTGGGCTGAY
13048 T T S ACAGTCAGCCCACCCATTTAGTAACTGTTCTCTGCTGCCCAGTCTGTGCCC
13048 T C S ACAGTCAGCCCACCCATTCAGTAACTGTTCTCTGCTGCCCAGTCTGTGCCC
CTCCTTTATCCTTGAGAGATGGAGCTCTAGGCCCATCTCAGAACAGTCAGCCCACCCATT[TC]AGTAACTGTTCTCTGCTGCCCAGTCTGTGCCCACTCTAC
13048 IS [TC] CCTCTGGCTGCTGATAGCCCA
13076 I A TCCAAAGCATAAACTCGTTGAAGACAATGAAACATGGAATTTTTTACACCT
13076 P G A ATGACGTGGCAGACGTGCAAATAGAACTGTGACAY
13076 P A A CGCGCCGAGGATGCAAATAGAACTGTGACAY
13076 T G A GTTATGTCACAGTTCTATTTGCACGGTGTAAAAAATTCCATGTTTCATTGTCTTCAACGAGTTTATGCTTTGGAGT
13076 T A A GTTATGTCACAGTTCTATTTGCATGGTGTAAAAAATTCCATGTTTCATTGTCTTCAACGAGTTTATGCTTTGGAGT
GCATCCTCACTCCAAAGCATAAACTCGTTGAAGACAATGAAACATGGAATTTTTTACACC[GA]TGCAAATAGAACTGTGACATAACTATATTATATTGTCTTGG
13076 IS [GA] AAGAGGGAAAAAATTAAGG
13096 I S CGGGCGCGAGACCAGAGGCCT
13096 P T S CGCGCCGAGGAGGTTTCGGAGGTACAGY
13096 P C S ATGACGTGGCAGACGGGTTTCGGAGGTACAY
13096 T T S GGGGCTGTACCTCCGAAACCTGGCCTCTGGTCTCGCGCCCGCG
13096 T C S GGGGCTGTACCTCCGAAACCCGGCCTCTGGTCTCGCGCCCGCG
GGTTAGACTCCCACCCTTGCGCCACCTGGCGGCGGGCAGCGGGGCTGTACCTCCGAAACC[TC]GGCCTCTGGTCTCGCGCCCGCGGGGGCGCAGGGCT
13096 IS [TC] GTACGCCCTGCCCTCCCTGGCGCCC
13112 I S TTTCCCATACCATTAAATGCTGAGGCCCTGGTTTTCTAAAA
13112 P A S CGCGCCGAGGTTCTTCATTTTTACATTTCTGTAAAGAY
13112 P G S ATGACGTGGCAGACCTCTTCATTTTTACATTTCTGTAAAGY
13112 T A S TACATCTTTACAGAAATGTAAAAATGAAGAATTTAGAAAACCAGGGCCTCAGCATTTAATGGTATGGGAAACA
13112 T G S TACATCTTTACAGAAATGTAAAAATGAAGAGTTTAGAAAACCAGGGCCTCAGCATTTAATGGTATGGGAAACA
TCAAGAACTGTTTATTTCTTTTCTGTTGGATACATCTTTACAGAAATGTAAAAATGAAGA[AG]TTTAGAAAACCAGGGCCTCAGCATTTAATGGTATGGGAAAC
13112 IS [AG] AATGACATGAGGAGAAAAA
13126 I A CTCATTGGGCAAACCAGAAAAGATAAATTTGGGGGGAAATTT
13126 P G A ATGACGTGGCAGACGCATCTTTGTGTGGTTAGAY
13126 P A A CGCGCCGAGGACATCTTTGTGTGGTTAGAAY
13126 T G A CTTCTTCTAACCACACAAAGATGCAATTTCCCCCCAAATTTATCTTTTCTGGTTTGCCCAATGAGGA
13126 T A A CTTCTTCTAACCACACAAAGATGTAATTTCCCCCCAAATTTATCTTTTCTGGTTTGCCCAATGAGGA

FIGURE 129E



				AATGAAAGCTATTATTTTCCTCATTGGGCAAACCAGAAAAGATAAATTTGGGGGGAAATT[GA]CATCTTTGTGTGGTTAGAAGAAGCCATTTCTGTAGATTTG
13126	IS	[GA]		TCCACACCTAGTCCTGTAAT
13131	I		S	CGTGATCTTGCTACGGCACTCTAGCCTGACAT
13131	P	T	S	CGCGCCGAGGACAGAGTGAGACCCTGY
13131	P	C	S	ATGACGTGGCAGACGCAGAGTGAGACCCTGY
13131	T	T	S	GAGACAGGGTCTCACTCTGTTGTCAGGCTAGAGTGCCGTAGCAAGATCACGGC
13131	T	C	S	GAGACAGGGTCTCACTCTGCTGTCAGGCTAGAGTGCCGTAGCAAGATCACGGC
				TTATTCTAGATACTTACATAATAAGCAATACATGTGTTTTTGAGACAGGGTCTCACTCTG[TC]TGTCAGGCTAGAGTGCCGTAGCAAGATCACGGCTCACTGC
13131	IS	[TC]		AGCCTTGACTTCCCAGGCTC
13133	I		A	CTGATAACCACAGAGAGAGGCTCTCTCCACCCT
13133	P	C	A	ATGACGTGGCAGACCCTTCCGTTGCAATCTGY
13133	P	A	A	CGCGCCGAGGACTTCCGTTGCAATCTGY
13133	T	C	A	AATGCAGATTGCAACGGAAGGGGGTGGAGAGAGCCTCTCTCTGTGGTTATCAGGG
13133	T	A	A	AATGCAGATTGCAACGGAAGTGGGTGGAGAGAGCCTCTCTCTGTGGTTATCAGGG
				GTGGCCACATCTAAGCCTGTCCTCTGCCCTGATAACCACAGAGAGAGGCTCTCTCCACCC[CA]CTTCCGTTGCAATCTGCATTTCTCTCTGACAGTCTTTCA
13133	IS	[CA]		AATGAAGGGAGCCTGGCTGCT
13143	I		S	GCCAGGCTCTGACCCAGGCTGCT
13143	P	C	S	ATGACGTGGCAGACGGTGTGGAAGGAGCTY
13143	P	T	S	CGCGCCGAGGAGTGTGGAAGGAGCTGY
13143	T	C	S	GGGCCAGCTCCTTCCACACCGCAGCCTGGGTCAGAGCCTGGCTC
13143	T	T	S	GGGCCAGCTCCTTCCACACTGCAGCCTGGGTCAGAGCCTGGCTC
				GACTCCTGGAGAAGGTTTACTCCTTGCAAGAGGCACTGGCAGGGCCAGCTCCTTCCACAC[CT]GCAGCCTGGGTCAGAGCCTGGCTCCTTTCACGGCTGA
13143	IS	[CT]		GCCACAGTCCTGGTGTGGACAGA
13145	I		S	GCTGGGAGACAGATGGGCTCCACAGCT
13145	P	C	S	ATGACGTGGCAGACGCCTCCTGTGAGCAY
13145	P	T	S	CGCGCCGAGGACCTCCTGTGAGCACY
13145	T	C	S	CCAGGTGCTCACAGGAGGCGCTGTGGAGCCCATCTGTCTCCCAGCTC
13145	T	T	S	CCAGGTGCTCACAGGAGGTGCTGTGGAGCCCATCTGTCTCCCAGCTC
				TGCAAAGTCTAGGAGGAGGCCTGGCTTCAGGTGCGGCTTGATCCAGGTGCTCACAGGAGG[CT]GCTGTGGAGCCCATCTGTCTCCCAGCTCTGCTGCACT
13145	IS	[CT]		ACCAGGAAGCCTGTCTCACAAGG
13148	I		A	TCAGGCCCGTGCTGGGCCATGC
13148	P	T	A	CGCGCCGAGGTGGGTACACTGGTGTAGY
13148	P	G	A	ATGACGTGGCAGACGGGGTACACTGGTGTAY
13148	T	T	A	CAACCTACACCAGTGTACCCACATGGCCCAGCACGGGCCTGAGC
13148	T	G	A	CAACCTACACCAGTGTACCCCCATGGCCCAGCACGGGCCTGAGC
				GGCACCTGCCATTTGCTGGCTTTCAGGAGTCATCTTTGCTCAGGCCCGTGCTGGGCCATG[TG]GGGTACACTGGTGTAGGTTGCTGGACACAGGCTGACT
13148	IS	[TG]		CACATCCATAAAGACAGAGGTCT
13154	I		A	GCGTGGCAGGGCCGTCCTCCT
13154	P	C	A	ATGACGTGGCAGACCTGCCCCTCACCCY
13154	P	A	A	CGCGCCGAGGATGCCCCTCACCCY
13154	T	C	A	GGACGGGTGAGGGGCAGGGAGGACGGCCCTGCCACGCAC
13154	T	A	A	GGACGGGTGAGGGGCATGGAGGACGGCCCTGCCACGCAC
				CAGTTTCCAGTGGGCCTGTGTGGCTTCGACACAGGTCAGTGCGTGGCAGGGCCGTCCTCC[CA]TGCCCCTCACCCGTCCACACCCATGAGCCCAGAGAAC
13154	IS	[CA]		ACCCAGCTTGCCACCAGGGCTGG
13313	I		S	GCTTCATGGTGATGCGACCATGAGTGCCTT
13313	P	C	S	ATGACGTGGCAGACGGAGCCATCTCCTGATY
13313	P	T	S	CGCGCCGAGGAGAGCCATCTCCTGATTY
13313	T	C	S	GAACAATCAGGAGATGGCTCCAGGCACTCATGGTCGCATCACCATGAAGCTT
13313	T	T	S	GAACAATCAGGAGATGGCTCTAGGCACTCATGGTCGCATCACCATGAAGCTT
				GTCAGGATCCAGAAGTGCCAGCAGACAAACTCGTAATGACGAACAATCAGGAGATGGCTC[CT]AGGCACTCATGGTCGCATCACCATGAAGCTTCCACTCA
13313	IS	[CT]		GGCGGACAGCTCTAGACACTCA
13330	I		S	TGTCCAGAGTGGTATCGATCATGTCAGACACTGAAAATACCT
13330	P	T	S	CGCGCCGAGGACCCTTAGGTCATGCATY
13330	P	G	S	ATGACGTGGCAGACCCCCTTAGGTCATGCAY
13330	T	T	S	ACGGATGCATGACCTAAGGGTGGTATTTTCAGTGTCTGACATGATCGATACCACTCTGGACAAG
13330	T	G	S	ACGGATGCATGACCTAAGGGGGGTATTTTCAGTGTCTGACATGATCGATACCACTCTGGACAAG
				TCTGGGATGCAGTCCCTCTGTGGAGGTGGCATGGGGAGGGACGGATGCATGACCTAAGGG[TG]GGTATTTTCAGTGTCTGACATGATCGATACCACTCTG
13330	IS	[TG]		GACAAGGAGGCCAGGATGCAGAA
13385	I		S	CATTTTTAATTAATATTGTACACCAACTTTTAGTTTCTTTCAAAATAATCTATATTGACAA
13385	P	G	S	ATGACGTGGCAGACCACCCAGATAAATGATAGGTATATY
13385	P	A	S	CGCGCCGAGGTACCCAGATAAATGATAGGTATATTATY
13385	T	G	S	TAGCATAATATACCTATCATTTATCTGGGTGTGTCAATATAGATTATTTTGAAAGAAACTAAAAGTTGGTGTACAATATTAATTAAAAATG
13385	T	A	S	TAGCATAATATACCTATCATTTATCTGGGTATGTCAATATAGATTATTTTGAAAGAAACTAAAAGTTGGTGTACAATATTAATTAAAAATG
				TAGTATAATGACCAATTTTTGTTTCATATATAGCATAATATACCTATCATTTATCTGGGT[GA]TGTCAATATAGATTATTTTGAAAGAAACTAAAAGTTGGTGTA
13385	IS	[GA]		CAATATTAATTAAAAATG
13401	I		S	CAATCAGTCTGATTTTTTAAAACACAAAATTAGCTTTTTTTCAGTATCGAATTTA
13401	P	G	S	ATGACGTGGCAGACCTGATATAAAAAAAGCAGATTGAAAAY
13401	P	A	S	CGCGCCGAGGTTGATATAAAAAAAGCAGATTGAAAACY
13401	T	G	S	TGAGGTTTTCAATCTGCTTTTTTTATATCAGAAATTCGATACTGAAAAAAAGCTAATTTTGTGTTTTAAAAAATCAGACTGATTGCT
13401	T	A	S	TGAGGTTTTCAATCTGCTTTTTTTATATCAAAAATTCGATACTGAAAAAAAGCTAATTTTGTGTTTTAAAAAATCAGACTGATTGCT
				TTTTTAAAGCCGATCTTGCTTATACCAAGTTGAGGTTTTCAATCTGCTTTTTTTATATCA[GA]AAATTCGATACTGAAAAAAAGCTAATTTTGTGTTTTAAAAAAT
13401	IS	[GA]		CAGACTGATTGCTTGGA
13407	I		A	GTTATGGCTACCGGGTCATCACAGATAAATGCCCT
13407	P	G	A	ATGACGTGGCAGACGGAGGGAATTATTCTTCTCTTAAY
13407	P	A	A	CGCGCCGAGGAGAGGGAATTATTCTTCTCTTAATY
13407	T	G	A	TTGGATTAAGAGAAGAATAATTCCCTCCGGGCATTTATCTGTGATGACCCGGTAGCCATAACCA
13407	T	A	A	TTGGATTAAGAGAAGAATAATTCCCTCTGGGCATTTATCTGTGATGACCCGGTAGCCATAACCA
				CTCAATAGAGACAGAAACCACCATTGGTTATGGCTACCGGGTCATCACAGATAAATGCCC[GA]GAGGGAATTATTCTTCTCTTAATCCAATCTGTGTTGGGG
13407	IS	[GA]		TCCATTGTCAATGCATTCATG
13427	I		A	CCTCAGCGCCCTGGGTGGGTGT
13427	P	G	A	ATGACGTGGCAGACGGCCTGCACAGGGY
13427	P	A	A	CGCGCCGAGGAGCCTGCACAGGGY
13427	T	G	A	TACCCCCTGTGCAGGCCCACCCACCCAGGGCGCTGAGGGA
13427	T	A	A	TACCCCCTGTGCAGGCTCACCCACCCAGGGCGCTGAGGGA
				CCCCTTCCCCCGGGGCAGGTTGAGAGGCTGGAGTGGGTCCCTCAGCGCCCTGGGTGGGTG[GA]GCCTGCACAGGGGGTACCTCCTTCTCTGAGGAACTG
13427	IS	[GA]		GGCTGTTAGGGATTTTCCTTAGGC
13452	I		A	ACAACTGACCCATCCTTCCTGGGCTCTTCTA
13452	P	C	A	ATGACGTGGCAGACCCCCAGGATTTCAACAGY
13452	P	T	A	CGCGCCGAGGTCCCAGGATTTCAACAGY
13452	T	C	A	GGTGCTGTTGAAATCCTGGGGAGAAGAGCCCAGGAAGGATGGGTCAGTTGTTT
13452	T	T	A	GGTGCTGTTGAAATCCTGGGAAGAAGAGCCCAGGAAGGATGGGTCAGTTGTTT
				AAGTCAGGGTTACAGCTAGCCTCCCGGTAAACAACTGACCCATCCTTCCTGGGCTCTTCT[CT]CCCAGGATTTCAACAGCACCACAGAAATAGCCATTTTGC
13452	IS	[CT]		TCATGGTTATTTCCCAGGACC
13569	I		S	CCCCGTCCCTCCGGCTGACTGTTC
13569	P	A	S	CGCGCCGAGGTCGATGGCCAAGCTY

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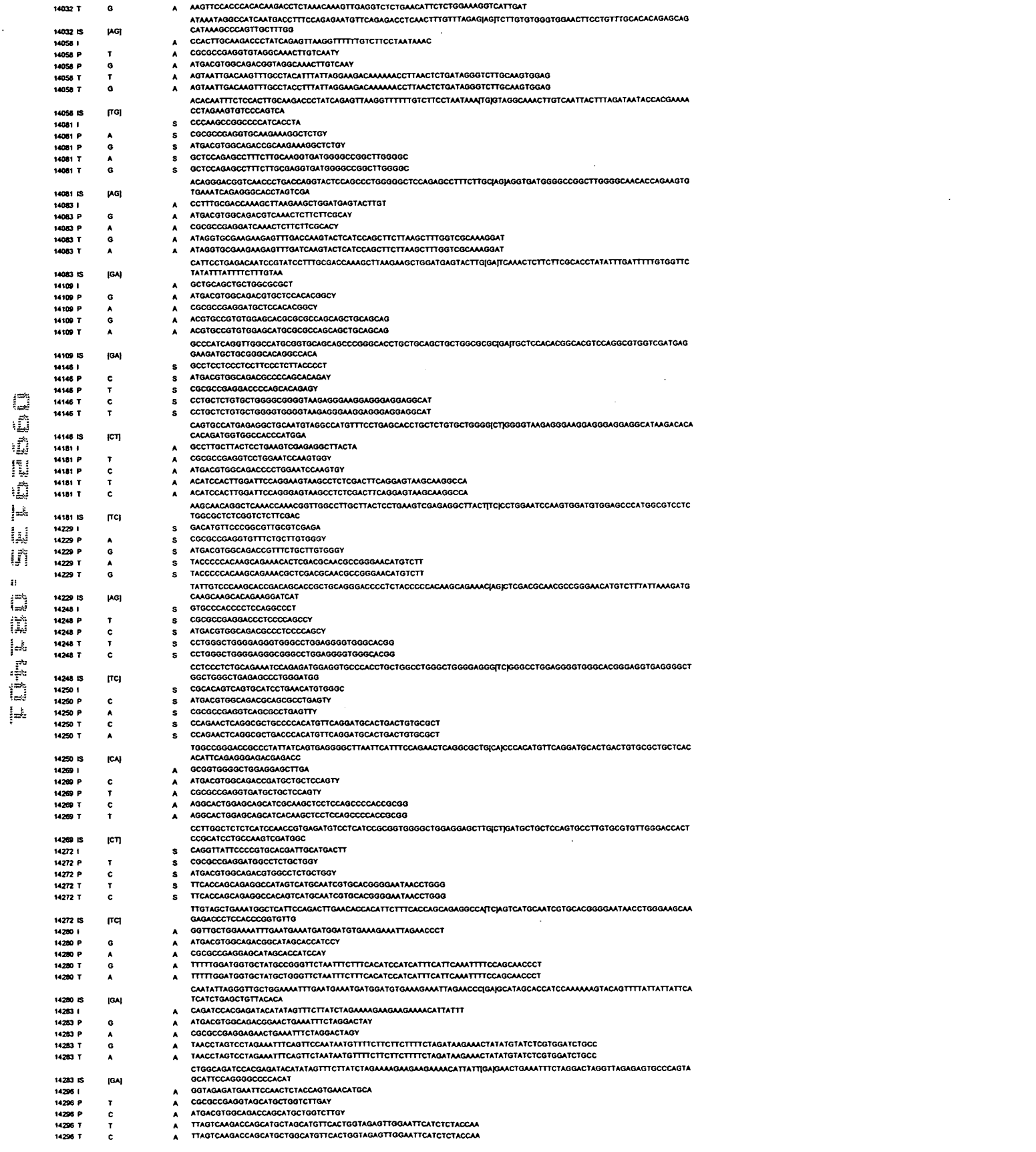
FIGURE 129E

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13569 P  C   S  ATGACGTGGCAGACGCGATGGCCAAGCY
13569 T  A   S  CACCAGCTTGGCCATCGAAACAGTCAGCCGGAGGGACGGGGCG
13569 T  C   S  CACCAGCTTGGCCATCGCAACAGTCAGCCGGAGGGACGGGGCG
13569 IS [AC]   AAAGCCCATCGCCCAGTTTCCTGGTGGGGGGTTAGGAATAGGACACCAGCTTGGCCATCG[AC]AACAGTCAGCCGGAGGGACGGGGCGTGCAGAGGGCC
                CCAGGAGGCTGGGGTCTGAATTCT
13606 I     A  GCCCCTCTACCAGAAAAGGTACTGAGCTCTCCA
13606 P  C   A  ATGACGTGGCAGACCGGCCTGCCCACY
13606 P  T   A  CGCGCCGAGGTGGCCTGCCCACY
13606 T  C   A  GGGGGTGGGCAGGCCGGGAGAGCTCAGTACCTTTTCTGGTAGAGGGGCAG
13606 T  T   A  GGGGGTGGGCAGGCCAGGAGAGCTCAGTACCTTTTCTGGTAGAGGGGCAG
13606 IS [CT]   CCTACTACATCCTGGTCACGACTGTGCTGCCCCTCTACCAGAAAAGGTACTGAGCTCTC[C|T]GGCCTGCCCACCCCCCAACCCTCTCCTAAGGGTCTGGC
                ATCTGTAAGGAACCCTGGCCTT
13649 I     S  CCAAGGGGTTCACGAAGGGGCCGC
13649 P  A   S  CGCGCCGAGGTGCTGGGCTGAATCGY
13649 P  T   S  ATGACGTGGCAGACAGCTGGGCTGAATCGY
13649 T  A   S  CCAGCGATTCAGCCCAGCACGGCCCCTTCGTGAACCCCTTGGGC
13649 T  T   S  CCAGCGATTCAGCCCAGCTCGGCCCCTTCGTGAACCCCTTGGGC
13649 IS [AT]   GGCACAGTGACATGATGGTGAGCTCCCCCTTGGTGCCCAGCTCCAGCGATTCAGCCCAGC[AT]CGGCCCCTTCGTGAACCCCTTGGGCCTAGGTTCAGAG
                AGACGGCAAGGGATGTTGTATCC
13650 I     S  CCACAGACACAAGTACACACACATACACACTTACATACATAAGCAT
13650 P  T   S  CGCGCCGAGGAGATCAACACGGGCAY
13650 P  C   S  ATGACGTGGCAGACGGATCAACACGGGCAY
13650 T  T   S  GAGTTGCCCGTGTTGATCTTGCTTATGTATGTAAGTGTGTATGTGTGTGTACTTGTGTCTGTGGAT
13650 T  C   S  GAGTTGCCCGTGTTGATCCTGCTTATGTATGTAAGTGTGTATGTGTGTGTACTTGTGTCTGTGGAT
13650 IS [TC]   TTTCCTTTGTATTCATTGAGTGGGTCTGTGTTTGTGTCTTAGGAGTTGCCCGTGTTGATC[T|C]TGCTTATGTATGTAAGTGTGTATGTGTGTGTACTTGTGTC
                TGTGGATGTTTGTACATGTG
13699 I     A  GCACGCCTTTACCCGCTGCTTCCAA
13699 P  C   A  ATGACGTGGCAGACCGCCTGGAGCGCY
13699 P  T   A  CGCGCCGAGGTGCCTGGAGCGCY
13699 T  C   A  GAAGGCGCTCCAGGCGTGGAAGCAGCGGGTAAAGGCGTGCTG
13699 T  T   A  GAAGGCGCTCCAGGCATGGAAGCAGCGGGTAAAGGCGTGCTG
13699 IS [CT]   GCGCCGGCTGCGCCTGGTCCGCAAGGGCAATGAGCAGCACGCCTTTACCCGCTGCTTCCA[C|T]GCCTGGAGCGCCTTCTGCAAGGCCCTGGCCTAAGAC
                AGGCTGGCACAGCCCCAGGCTTGG                                                                              FLI
13727 I     S  TGCCCCTCAGCCACACCCTCACAT
13727 P  G   S  CGCGCCGAGGCCAGCACACCCAACY
13727 P  C   S  ATGACGTGGCAGACGCAGCACACCCAACY
13727 T  G   S  TGGTGTTGGGTGTGCTGGTGTGAGGGTGTGGCTGAGGGGCAGC
13727 T  C   S  TGGTGTTGGGTGTGCTGCTGTGAGGGTGTGGCTGAGGGGCAGC
13727 IS [GC]   GTCAAGGCCTGAGCTTCTGAGGGAGGTGGGGAGGGGACCGGGTTGGTGTTGGGTGTGCTG[G|C]TGTGAGGGTGTGGCTGAGGGGCAGCTCTGAGAAAA
                CCACCCGCCTCTCCTTTCAGGGCAT
13740 I     A  GGCACACCTCACCCCCTTACCCGATTA
13740 P  T   A  CGCGCCGAGGTCTTGCTGCAGACCCY
13740 P  C   A  ATGACGTGGCAGACCCTTGCTGCAGACCY
13740 T  T   A  TTTGGGGTCTGCAGCAAGAAATCGGGTAAGGGGGTGAGGTGTGCCAG
13740 T  C   A  TTTGGGGTCTGCAGCAAGGAATCGGGTAAGGGGGTGAGGTGTGCCAG
13740 IS [TC]   CACTCAGTCTTGATTTACTTGGCCCAGGGCCACTGGCACACCTCACCCCCTTACCCGATT[T|C]CTTGCTGCAGACCCCAAATCTCGACTCTCACATCCCTAT
                CCAGCCCATACCACCAGGCTC
13743 I     A  CGAGTTGGCAGTCCAAGGTACCCCAGGC
13743 P  G   A  ATGACGTGGCAGACGGTCACTGGCCCTCY
13743 P  T   A  CGCGCCGAGGTGTCACTGGCCCTCY
13743 T  G   A  GACAGAGGGCCAGTGACCCCTGGGGTACCTTGGACTGCCAACTCGAG
13743 T  T   A  GACAGAGGGCCAGTGACACCTGGGGTACCTTGGACTGCCAACTCGAG
13743 IS [GT]   GGATTGCGAGTGGGGTTAATAGTGTAAGGAACTCGAGTTGGCAGTCCAAGGTACCCCAGG[GT]GTCACTGGCCCTCTGTCTCCCCAGCTTCTGCTCCGTA
                GCAGACAAACTGCAGTGGACGCT
13766 I     A  ACTCTCAAGCTTTGTGATAAACAAATGTGCATAACAGATGGGACTATTT
13766 P  G   A  ATGACGTGGCAGACGACTTACAGCCCAGGGY
13766 P  C   A  CGCGCCGAGGCACTTACAGCCCAGGGY
13766 T  G   A  AATTCCCTGGGCTGTAAGTCAATAGTCCCATCTGTTATGCACATTTGTTTATCACAAAGCTTGAGAGTTT
13766 T  C   A  AATTCCCTGGGCTGTAAGTGAATAGTCCCATCTGTTATGCACATTTGTTTATCACAAAGCTTGAGAGTTT
13766 IS [GC]   CGTTATGTATAAACTCTCAAGCTTTGTGATAAACAAATGTGCATAACAGATGGGACTATT[G|C]ACTTACAGCCCAGGGAATTTTATTGACGCTGAGAAGGTTA
                TGTGACTGGCTCTGCCACTG
13790 I     A  TGGCCCCGACGGCCCTGCA
13790 P  C   A  ATGACGTGGCAGACCGATGACGGCGCAY
13790 P  T   A  CGCGCCGAGGTGATGACGGCGCAY
13790 T  C   A  CCCCTGCGCCGTCATCGGCAGGGCCGTCGGGGCCATC
13790 T  T   A  CCCCTGCGCCGTCATCAGCAGGGCCGTCGGGGCCATC
13790 IS [CT]   GTTCAAGAGGGAGCTGACTGGCCAGCGACTCCGGGAGGGAGATGGCCCCGACGGCCCTGC[C|T]GATGACGGCGCAGGGGCCCAGGCCGACCTGGAGCA
                CAGCCTGCTGGTGGCGGCCGAGAAG                                                                             POMC
13791 I     A  GCAGCCCGCCCTCGTCTCCTCA
13791 P  C   A  ATGACGTGGCAGACCGTGGCCCCCATCGY
13791 P  T   A  CGCGCCGAGGTGTGGCCCCATCGY
13791 T  C   A  TCTGCGATGGGGCCACGGAGGAGACGAGGGCGGGCTGCAC
13791 T  T   A  TCTGCGATGGGGCCACAGAGGAGACGAGGGCGGGCTGCAC
13791 IS [CT]   CACTGCCATCTCGACCAGTCCGGACCTGCAGTGGCTGGTGCAGCCCGCCCTCGTCTCCTC[C|T]GTGGCCCCATCGCAGACCAGAGCCCCTCACCCTTTCG
                GAGTCCCCGCCCCCTCCGCTGGG                                                                               FOS
13794 I     S  GCTCCAAAGGTATTGTTAGGGTCAGGGGGGAGC
13794 P  A   S  CGCGCCGAGGTCAGCCTTGGAGGGY
13794 P  T   S  ATGACGTGGCAGACACAGCCTTGGAGGGY
13794 T  A   S  CTTTCCCTCCAAGGCTGACTCCCCCCTGACCCTAACAATACCTTTGGAGCTC
13794 T  T   S  CTTTCCCTCCAAGGCTGTCTCCCCCCTGACCCTAACAATACCTTTGGAGCTC
13794 IS [AT]   CTTTGATCCGCTAGGCCCCCCATCTCTGAACCCTAGAGCCCCGCTTTCCCTCCAAGGCTG[A|T]CTCCCCCCTGACCCTAACAATACCTTTGGAGCTCGCTTT
                ACCTCTGGCTACTTCATCTCC
13802 I     A  GGTGAACAGACTGCAAATCTGTGTTATAGGGCCCATATTT
13802 P  A   A  CGCGCCGAGGAACATAGCACTGATTCAACAY
13802 P  C   A  ATGACGTGGCAGACCACATAGCACTGATTCAACAY
13802 T  A   A  TATATGTTGAATCAGTGCTATGTTAATATGGGCCCTATAACACAGATTTGCAGTCTGTTCACCAC
13802 T  C   A  TATATGTTGAATCAGTGCTATGTGAATATGGGCCCTATAACACAGATTTGCAGTCTGTTCACCAC
13802 IS [AC]   CACTATTCTTAGCTATTCAGTGGTGAACAGACTGCAAATCTGTGTTATAGGGCCCATATT[AC]ACATAGCACTGATTCAACATATAACTTACTAAGAGCATGTT
                TTAGCATTACTGTTAAGAA
13804 I     A  GTGAACAGACTGCAAATCTGTGTTATAGGGCCCATATTAACAA
13804 P  T   A  CGCGCCGAGGTAGCACTGATTCAACATATAACTY
13804 P  C   A  ATGACGTGGCAGACCAGCACTGATTCAACATATAACY
13804 T  T   A  AGTAAGTTATATGTTGAATCAGTGCTATGTTAATATGGGCCCTATAACACAGATTTGCAGTCTGTTCACCA
13804 T  C   A  AGTAAGTTATATGTTGAATCAGTGCTGTGTTAATATGGGCCCTATAACACAGATTTGCAGTCTGTTCACCA
13804 IS [TC]   ATTCTTAGCTATTCAGTGGTGAACAGACTGCAAATCTGTGTTATAGGGCCCATATTAACA[T|C]AGCACTGATTCAACATATAACTTACTAAGAGCATGTTTTAG
                CATTACTGTTAAGAAATTA
13824 I     S  CAAACAGGGAAAATAGTTCTGGAGGGGATATTAGGAATATC
13824 P  A   S  CGCGCCGAGGTCCAATCCAGATGAGGAAY
13824 P  C   S  ATGACGTGGCAGACGCCAATCCAGATGAGGAY
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FIGURE 129E

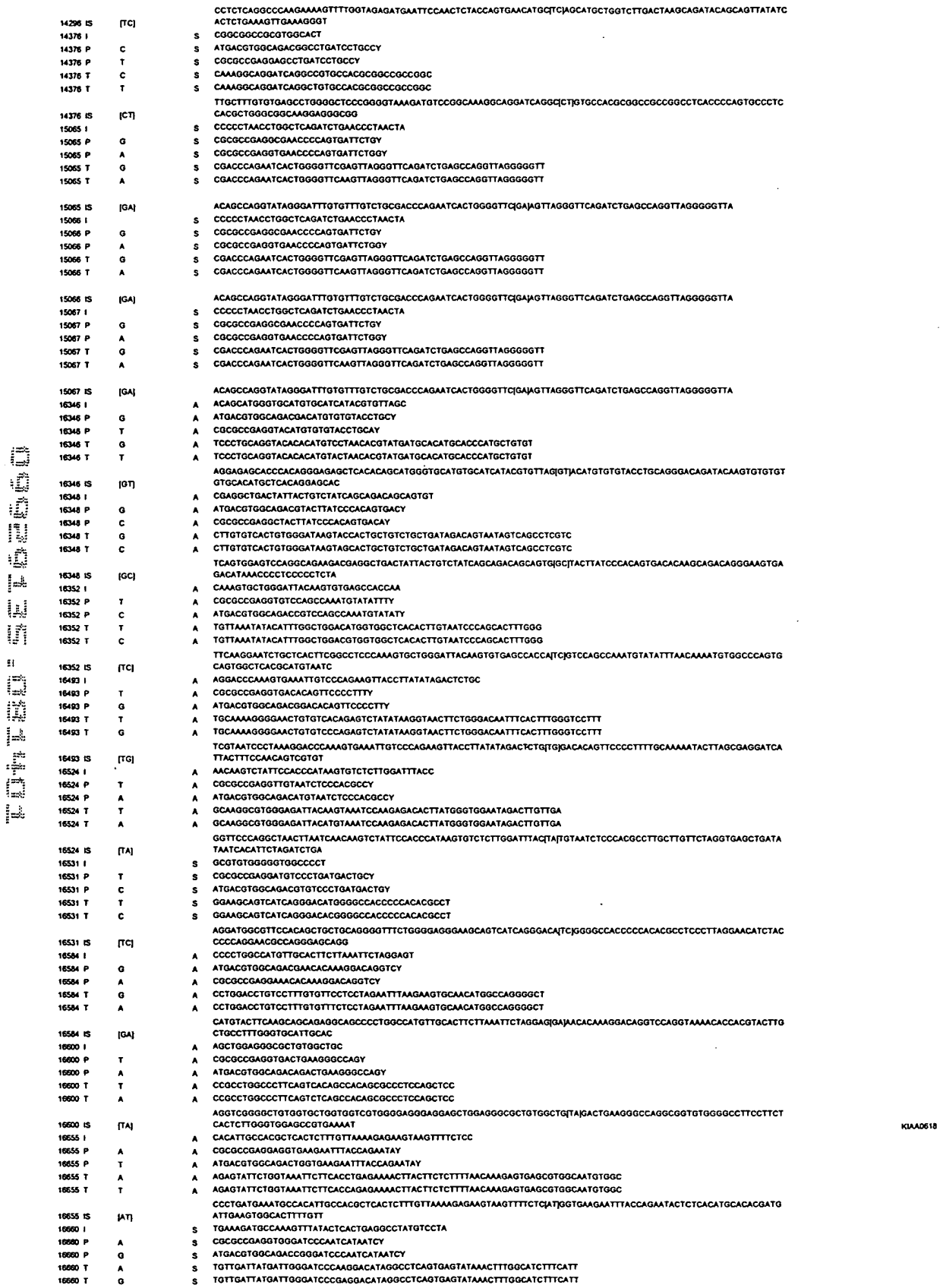
13824	T	A	S	TTGCTTCCTCATCTGGATTGGAATATTCCTAATATCCCCTCCAGAACTATTTTCCCTGTTTGTA	
13824	T	C	S	TTGCTTCCTCATCTGGATTGGCATATTCCTAATATCCCCTCCAGAACTATTTTCCCTGTTTGTA	
13824	IS	[AC]		AGAAAACCAGTTCTGCTGAACTGGGTGATTTCACTTCTCTTTGCTTCCTCATCTGGATTGG[AC]ATATTCCTAATATCCCCTCCAGAACTATTTTCCCTGTTTGT ACTAGACTGTGTATATCAT	
13842	I		S	GCGTGGTGGGTGAGCTTTGGAGCAT	
13842	P	T	S	CGCGCCGAGGATCCACGCTGGACTCY	
13842	P	C	S	ATGACGTGGCAGACGTCCACGCTGGACTY	
13842	T	T	S	GAAGGAGTCCAGCGTGGATTGCTCCAAAGCTCACCCACCACGCCC	
13842	T	C	S	GAAGGAGTCCAGCGTGGACTGCTCCAAAGCTCACCCACCACGCCC	
13842	IS	[TC]		GGTGGGAGACGGGGAGGGAGGAGAGAAAGGGAAATTCAGGAGGAAGGAGTCCAGCGTGGA[TC]TGCTCCAAAGCTCACCCACCACGCCCTGACTGCAGG TGTGATTCGGGGCCCCCGTGGCTC	
13847	I		A	GTTTTCATCTCACAAGGATGTTAGTAGAAAGTAAACAGAAGAGTCT	
13847	P	A	A	CGCGCCGAGGATATCTGTTTTCACAGCCCY	
13847	P	G	A	ATGACGTGGCAGACGTATCTGTTTTCACAGCCCY	
13847	T	A	A	AATTGGGCTGTGAAAACAGATATGACTCTTCTGTTTACTTTCTACTAACATCCTTGTGAGATGAAAACAG	
13847	T	G	A	AATTGGGCTGTGAAAACAGATACGACTCTTCTGTTTACTTTCTACTAACATCCTTGTGAGATGAAAACAG	
13847	IS	[AG]		TGCCTCCTTTAAACTGTTTTCATCTCACAAGGATGTTAGTAGAAAGTAAACAGAAGAGTC[AG]TATCTGTTTTCACAGCCCAATTATACAGAAATCCGACAGTA CTGCAATCACTGGCGAAAT	
13864	I		A	TCATTGTTCATAGAAAAAAGTATGCAAAATCGATTTTTTAGATGCAGATATATACTC	
13864	P	T	A	CGCGCCGAGGTGTAAAGGTCACCCAGTY	
13864	P	G	A	ATGACGTGGCAGACGGTAAAGGTCACCCAGTY	
13864	T	T	A	CATGACTGGGTGACCTTTACAAGTATATATCTGCATCTAAAAAATCGATTTTGCATACTTTTTTCTATGAACAATGAGC	
13864	T	G	A	CATGACTGGGTGACCTTTACCAGTATATATCTGCATCTAAAAAATCGATTTTGCATACTTTTTTCTATGAACAATGAGC	
13864	IS	[TG]		TAGCTCATTGTTCATAGAAAAAAGTATGCAAAATCGATTTTTTAGATGCAGATATATACT[TG]GTAAAGGTCACCCAGTCATGGAAGTTTTGTGCCCAGTTTGG ATCTCCATCTGGAGAATAT	
13866	I		A	CCTCCAGCCCGGATGGCTCTCCTA	
13866	P	T	A	CGCGCCGAGGTCATTTTGGTTTGTTTCCTCY	
13866	P	C	A	ATGACGTGGCAGACCCATTTTGGTTTGTTTCCTCY	
13866	T	T	A	ACAAGAGGAAACAAACCAAAATGAAGGAGAGCCATCCGGGCTGGAGGAG	
13866	T	C	A	ACAAGAGGAAACAAACCAAAATGGAGGAGAGCCATCCGGGCTGGAGGAG	
13868	IS	[TC]		TGAAGCCCTCCCCAGATCCCCTTGGAGCCTCTGCCCTCCTCCAGCCCGGATGGCTCTCC[TC]CATTTTGGTTTGTTTCCTCTTGTTTGTCATCTTATTTTG GGTGCTGGGGTGGCTGCCAGC	CALM3
13870	I		S	CCTTCAACTCAGCCTGGCTCCCGGGC	
13870	P	C	S	ATGACGTGGCAGACGCTCCTAGCTAGGTGTCY	
13870	P	A	S	CGCGCCGAGGTCTCCTAGCTAGGTGTCY	
13870	T	C	S	ACAGGACACCTAGCTAGGAGCCCCGGGAGCCAGGCTGAGTTGAAGGGG	
13870	T	A	S	ACAGGACACCTAGCTAGGAGACCCGGGAGCCAGGCTGAGTTGAAGGGG	
13870	IS	[CA]		TGGGAGATGGTGAGGCCCAGGGGCCTGTGGGAGGGGTGGAACAGGACACCTAGCTAGGAG[CA]CCCGGGAGCCAGGCTGAGTTGAAGGGGGCTGTGTT GAAGGGGCTAGGGCTCTGGAGGAAG	
13908	I		A	GCAAGTATGATCTTTCGGAAGGAGCCATTTTTCCATGGACT	
13908	P	A	A	CGCGCCGAGGATGACAATTATGATCAGTTGGTY	
13908	P	G	A	ATGACGTGGCAGACGTGACAATTATGATCAGTTGGY	
13908	T	A	A	CCTCACCAACTGATCATAATTGTCATGTCCATGGAAAAATGGCTCCTTCCGAAAGATCATACTTGCCA	
13908	T	G	A	CCTCACCAACTGATCATAATTGTCACGTCCATGGAAAAATGGCTCCTTCCGAAAGATCATACTTGCCA	
13908	IS	[AG]		GGAGTTTGGGTTGTATGCTGGCAAGTATGATCTTTCGGAAGGAGCCATTTTTCCATGGAC[AG]TGACAATTATGATCAGTTGGTGAGGATAGCCAAGGTTCT GGGGACAGAAGATTTATATGG	
13926	I		A	AGGCTCAGGGACCGGCAGTTCTACTCTT	
13926	P	G	A	ATGACGTGGCAGACGGAGCCCACCAGCY	
13926	P	A	A	CGCGCCGAGGAGAGCCCACCAGCY	
13926	T	G	A	AGAGGCTGGTGGGCTCCAGAGTAGAACTGCCGGTCCCTGAGCCTTT	
13926	T	A	A	AGAGGCTGGTGGGCTCTAGAGTAGAACTGCCGGTCCCTGAGCCTTT	
13926	IS	[GA]		TCACTAATGATCCACTTCCTCCTCAGGGAATAAAGGCTCAGGGACCGGCAGTTCTACTCT[GA]GAGCCCACCAGCCTCTCAGAGCCTCCGGTGACTGGCCT GTGTCTCCCCCTGGGTGAGTGC	
13940	I		A	CAGAGAAGTGCAAGTATGGCATGGAGATCCCCT	
13940	P	A	A	CGCGCCGAGGACCAATATCCCCGGCY	
13940	P	C	A	ATGACGTGGCAGACCCCAATATCCCCGGCY	
13940	T	A	A	CCAGGCCGGGGATATTGGTGGGGATCTCCATGCCATACTTGCACTTCTCTGCA	
13940	T	C	A	CCAGGCCGGGGATATTGGGGGGGATCTCCATGCCATACTTGCACTTCTCTGCA	
13940	IS	[AC]		ACTGGCTGCTTTGACCTCCTGCTTGATGCAGAGAAGTGCAAGTATGGCATGGAGATCCCC[AC]CCAATATCCCCGGCCTGGGGGCTGCTGGACGTGAGTA TGAGGCCCCAGCTGCGGTACCTG	
13956	I		S	GCAGCCCTGGCTCCCCTCTTGTT	
13956	P	C	S	ATGACGTGGCAGACGCTTGGTCAAGCTGGY	
13956	P	T	S	CGCGCCGAGGACTTGGTCAAGCTGGAY	
13956	T	C	S	CATTTCCAGCTTGACCAAGCACAAGAGGGGAGCCAGGGCTGCGG	
13956	T	T	S	CATTTCCAGCTTGACCAAGTACAAGAGGGGAGCCAGGGCTGCGG	
13956	IS	[CT]		ACTGAGCAGCTGCTGCCCAGAGCCCAGGCGAGCCCTGGTCCCATTTCCAGCTTGACCAAG[CT]ACAAGAGGGGAGCCAGGGCTGCGGATCCTACTCCCTC TTGCTCCCCAGGCATCCGTCTCA	
13968	I		S	GTGATGCCTCCCCAAGGAGTAGAGATAGAAGAAGCT	
13968	P	C	S	ATGACGTGGCAGACGGCAAAGACAAGGGCY	
13968	P	T	S	CGCGCCGAGGAGCAAAGACAAGGGCAY	
13968	T	C	S	TCTCTGCCCTTGTCTTTGCCGCTTCTTCTATCTCTACTCCTTGGGGAGGCATCACCC	
13968	T	T	S	TCTCTGCCCTTGTCTTTGCTGCTTCTTCTATCTCTACTCCTTGGGGAGGCATCACCC	
13968	IS	[CT]		GGTGGTATCTGACATCAAGTGTGTGGCATAGTGGTGCTGGGTCTCTGCCCTTGTCTTTGC[CT]GCTTCTTCTATCTCTACTCCTTGGGGAGGCATCACCCA GAAATCTGTGCATGTGGGAGGG	
13971	I		S	CCCGACCTGCATTCCCCGGGGTAAT	
13971	P	T	S	CGCGCCGAGGAGCGAGCTCTGGAGY	
13971	P	C	S	ATGACGTGGCAGACGGCGAGCTCTGGAGY	
13971	T	T	S	CGATCTCCAGAGCTCGCTTTACCCCGGGGAATGCAGGTCGGGGC	
13971	T	C	S	CGATCTCCAGAGCTCGCCTTACCCCGGGGAATGCAGGTCGGGGC	
13971	IS	[TC]		AAGCGGGCGTCGCTCGGACCCAGGACACTACAGTTTCTCTATGCGATCTCCAGAGCTCGC[TC]TTACCCCGGGGAATGCAGGTCGGGGCAGTAGGGAAGC CCCTAGGGATGCAGGGAGGCGGG	
13977	I		S	CCACCCAGAACCCATTCTGGAGAAAGGAAAAAAATGAGAA	
13977	P	A	S	CGCGCCGAGGTAGTAAAATCGTCAGCCTCTY	
13977	P	G	S	ATGACGTGGCAGACCAGTAAAATCGTCAGCCTY	
13977	T	A	S	CTGAAGAGGCTGACGATTTTACTATCTCATTTTTTTCCTTTCTCCAGAATGGGTTCTGGGTGGGT	
13977	T	G	S	CTGAAGAGGCTGACGATTTTACTGTCTCATTTTTTTCCTTTCTCCAGAATGGGTTCTGGGTGGGT	
13977	IS	[AG]		TAATGGGTACTTTCTGACTGAATTTTATGAGCTCATTCTGAAGAGGCTGACGATTTTACT[AG]TCTCATTTTTTTCCTTTCTCCAGAATGGGTTCTGGGTGGG TCCCCTGGGTGGTGGCTCTG	
13993	I		A	CTGAACCAAGCCCCTCGGAGACCATTCTT	
13993	P	A	A	CGCGCCGAGGATCTCATTCCAAGCTGGY	
13993	P	G	A	ATGACGTGGCAGACGTCTCATTCCAAGCTGGY	
13993	T	A	A	CTTGCCAGCTTGGAATGAGATAGAATGGTCTCCGAGGGGCTTGGTTCAGGA	
13993	T	G	A	CTTGCCAGCTTGGAATGAGACAGAATGGTCTCCGAGGGGCTTGGTTCAGGA	
13993	IS	[AG]		GGAAGTCAGGCAGTGGTGTTCATGCTGCCATCCTGAACCAAGCCCCTCGGAGACCATTCT[AG]TCTCATTCCAAGCTGGCAAGCTCCTTCTAAGTGCCCAC CATGGGGCAGGTGCTATGGAGG	
14032	I		A	CAATGACCTTTCCAGAGAATGTTCAGAGACCTCAACTTTGTTTAGAGT	
14032	P	A	A	CGCGCCGAGGATCTTGTGTGGGTGGAY	
14032	P	G	A	ATGACGTGGCAGACGTCTTGTGTGGGTGGAY	
14032	T	A	A	AAGTTCCACCCACACAAGATCTCTAAACAAAGTTGAGGTCTCTGAACATTCTCTGGAAAGGTCATTGAT	

FIGURE 129E



Confidential and Proprietary

FIGURE 129E

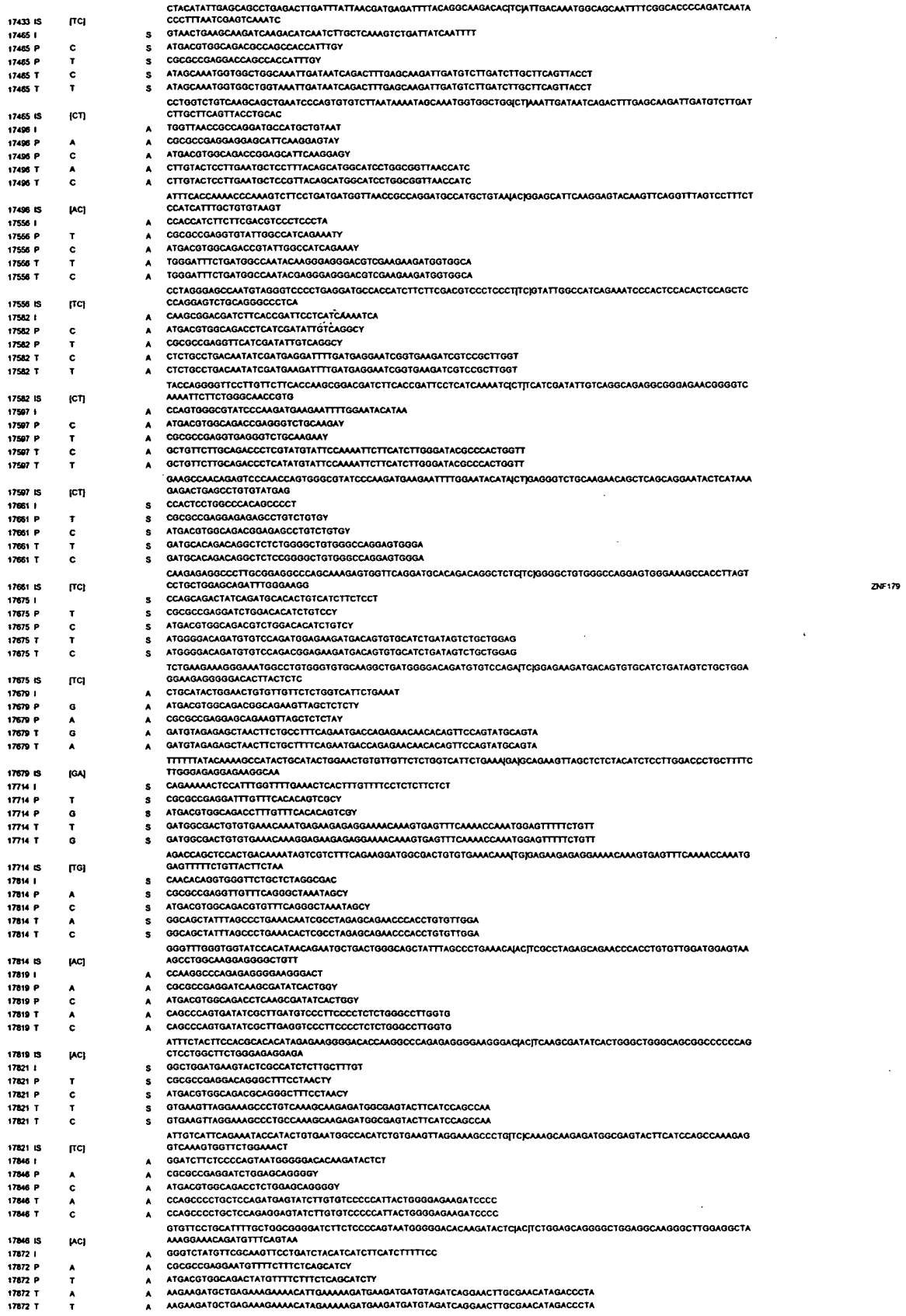


Docket No. 2003P14341US01

FIGURE 129E

				TTCTCAGAGTATCTTCAAGATGAGGAATATATCCAAGCTGTTGATTATGATTGGGATCCC[AG]AGGACATAGGCCTCAGTGAGTATAAACTTTGGCATCTTTC	
16660	IS	[AG]		ATTGATATTAAGTGACTTTA	
16769	I		S	GCAGGGAAACAGACAAACCTCTGCCTCCCA	
16769	P	A	S	CGCGCCGAGGTTCTCCAGGTTTGTGGTY	
16769	P	G	S	ATGACGTGGCAGACCTCTCCAGGTTTGTGGTY	
16769	T	A	S	TGAGACCACAAACCTGGAGAAGGGAGGCAGAGGTTTGTCTGTTTCCCTGCAC	
16769	T	G	S	TGAGACCACAAACCTGGAGAGGGGAGGCAGAGGTTTGTCTGTTTCCCTGCAC	
				GCAGGGTACAAGGGAGTGCGAGAGGGATAATGGCTTCTGGTGAGACCACAAACCTGGAGA[AG]GGGAGGCAGAGGTTTGTCTGTTTCCCTGCACTCTGTC	
16769	IS	[AG]		CCACAGACCTGGTGACTGATGAG	
16770	I		A	AGCCCATGGGGCCTGGGGGA	
16770	P	C	A	ATGACGTGGCAGACCAGTGCAGGCCCCY	
16770	P	T	A	CGCGCCGAGGTAGTGCAGGCCCCY	
16770	T	C	A	CTCTGGGGCCTGCACTGCCCCCAGGCCCCATGGGCTGG	
16770	T	T	A	CTCTGGGGCCTGCACTACCCCCAGGCCCCATGGGCTGG	
				GAGAGGGCAGCGCTCCCCAGCTCCCTGGCTCCCCACCTGCCAGCCCATGGGGCCTGGGGG[CT]AGTGCAGGCCCCAGAGAGACCAAGTGCAAAGGAGTA	
16770	IS	[CT]		CAGCTCATTGCCTCTCCTTCCTCC	
16838	I		S	CCAGCCCTGAGGTTCTGGCAAAAATCTCCTCT	
16838	P	C	S	ATGACGTGGCAGACGGAACACGTGAGTTGGY	
16838	P	T	S	CGCGCCGAGGAGAACACGTGAGTTGGTY	
16838	T	C	S	GGGCACCAACTCACGTGTTCCGAGGAGATTTTTGCCAGAACCTCAGGGCTGGGT	
16838	T	T	S	GGGCACCAACTCACGTGTTCTGAGGAGATTTTTGCCAGAACCTCAGGGCTGGGT	
				AGCCTGGGGGCTCAGCCAGGAGAGGGAGCTGCTGGCTGGCGGGCACCAACTCACGTGTTC[CT]GAGGAGATTTTTGCCAGAACCTCAGGGCTGGGTGTG	
16838	IS	[CT]		CCCACCACTTCCATGATGCGCTTC	
16916	I		S	CGTCGCACTACTGTTTGCTTTCTGCAGGTCAA	
16916	P	A	S	CGCGCCGAGGTACTGGACCCTTTGTAATCTY	
16916	P	G	S	ATGACGTGGCAGACCACTGGACCCTTTGTAATCY	
16916	T	A	S	CGCGAGATTACAAAGGGTCCAGTATGACCTGCAGAAAGCAAACAGTAGTGCGACGGA	
16916	T	G	S	CGCGAGATTACAAAGGGTCCAGTGTGACCTGCAGAAAGCAAACAGTAGTGCGACGGA	
				AAGAAACAAATGACCGGAAATGCCTGGAAGATGAAAACGCGAGATTACAAAGGGTCCAGT[AG]TGACCTGCAGAAAGCAAACAGTAGTGCGACGGAGACAA	
16916	IS	[AG]		TAAACAAACTGAAGGTTCAGGA	DSP
16926	I		S	ACTTAAAAACTCATGAAACAAATCATTTAGAAGTAGAAACTCTCACAACATA	
16926	P	A	S	CGCGCCGAGGTAAATCATTACAAAGGCATTGTGY	
16926	P	G	S	ATGACGTGGCAGACCAAATCATTACAAAGGCATTGTY	
16926	T	A	S	ATTTCACAATGCCTTTGTAATGATTTAATGTTGTGAGAGTTTCTACTTCTAAATGATTTGTTTCATGAGTTTTTAAGTTG	
16926	T	G	S	ATTTCACAATGCCTTTGTAATGATTTGATGTTGTGAGAGTTTCTACTTCTAAATGATTTGTTTCATGAGTTTTTAAGTTG	
				ATGTTACAAATTGTAAGTAAATATTTCTAAAGACATTTCACAATGCCTTTGTAATGATTT[AG]ATGTTGTGAGAGTTTCTACTTCTAAATGATTTGTTTCATGAG	
16926	IS	[AG]		TTTTTAAGTTGCTGTTGG	
16937	I		S	GGGCCTCCTTGCCCCCTGCTCA	
16937	P	G	S	ATGACGTGGCAGACCGGAGCCCACCCY	
16937	P	A	S	CGCGCCGAGGTGGAGCCCCACCCTY	
16937	T	G	S	GGTCAGGGTGGGCTCCGGAGCAGGGGGCAAGGAGGCCCCA	
16937	T	A	S	GGTCAGGGTGGGCTCCAGAGCAGGGGGCAAGGAGGCCCCA	
				TGACTGAGCCCTCCTTGGGCCAGGTCCTGTGGGAAGCGTCCCCCGGTCAGGGTGGGCTCC[GA]GAGCAGGGGGCAAGGAGGCCCCAGGACTCTCTCTG	
16937	IS	[GA]		GCCGGGCAGATTCCCAGGAGGATGG	
16969	I		S	GGGAGCAGGAGAGTCTCTCAGGCAGGAT	
16969	P	C	S	ATGACGTGGCAGACGCCACGCCCCCY	
16969	P	T	S	CGCGCCGAGGACCACGCCCCCY	
16969	T	C	S	CCGGGGGGGCGTGGCTCCTGCCTGAGAGACTCTCCTGCTCCCAG	
16969	T	T	S	CCGGGGGGGCGTGGTTCCTGCCTGAGAGACTCTCCTGCTCCCAG	
				GACCGGCCGAGTGGAAGACTGGCGTGCACACGTGTGTCTGTGGGTGCCGGGGGGGCGTGG[CT]TCCTGCCTGAGAGACTCTCCTGCTCCCAGTGCCCTT	
16969	IS	[CT]		CCTGGTGGCCCTGGCGCTCCTGAG	
16980	I		A	CAGTCCCAGTCCAGCAGTTAGCCCAGGT	
16980	P	C	A	CGCGCCGAGGCCTGGAGGATCTTGGCY	
16980	P	G	A	ATGACGTGGCAGACGCTGGAGGATCTTGGCY	
16980	T	C	A	TTTTGCCAAGATCCTCCAGGCCTGGGCTAACTGCTGGACTGGGACTGGG	
16980	T	G	A	TTTTGCCAAGATCCTCCAGCCCTGGGCTAACTGCTGGACTGGGACTGGG	
				CTGTGATCCAGCCTCTCCCCAGTCCCATCTCCCCAGTCCCAGTCCAGCAGTTAGCCCAGG[CG]CTGGAGGATCTTGGCAAAAGGGGAACACTCAGCCTGG	
16980	IS	[CG]		GTATCTAAAGCTTGACCATCCCC	
17036	I		S	CTCAAAGGCTCTCTGCACCCCTCTAGCCT	
17036	P	T	S	CGCGCCGAGGATCCAGAAAGGGATGTGTY	
17036	P	C	S	ATGACGTGGCAGACGTCCAGAAAGGGATGTGY	
17036	T	T	S	AGAGACACATCCCTTTCTGGATGGCTAGAGGGGTGCAGAGAGCCTTTGAGGG	
17036	T	C	S	AGAGACACATCCCTTTCTGGACGGCTAGAGGGGTGCAGAGAGCCTTTGAGGG	
				ACTCTGGCTTCATGGCTATGGTCAAGAATTTTGTGGCCAAGAGACACATCCCTTTCTGGA[TC]GGCTAGAGGGGTGCAGAGAGCCTTTGAGGGCACAACTC	
17036	IS	[TC]		TGGCCATGACCAATGGTGCCTG	APOL5
17194	I		A	TGGCCTCCTGCAAGCCCCAACCT	
17194	P	G	A	ATGACGTGGCAGACGAAGATAGCTACATGGACCY	
17194	P	A	A	CGCGCCGAGGAAAGATAGCTACATGGACCAY	
17194	T	G	A	TCCATGGTCCATGTAGCTATCTTCGGTTGGGGCTTGCAGGAGGCCAAG	
17194	T	A	A	TCCATGGTCCATGTAGCTATCTTTGGTTGGGGCTTGCAGGAGGCCAAG	
				CTCACTTTTGCAGATGGGACTAGGACCAGGTAGAAGCTTGGCCTCCTGCAAGCCCCAACC[GA]AAGATAGCTACATGGACCATGGATCCCACCCAGGTCTC	
17194	IS	[GA]		TCCCAAGCCAGAGCAGAAGATG	
17220	I		S	AGAGTGCCTCTGTTCCCGCCAGGGT	
17220	P	G	S	CGCGCCGAGGCACACCCTTATCTCCTAATCY	
17220	P	C	S	ATGACGTGGCAGACGACACCCTTATCTCCTAATCY	
17220	T	G	S	ATATGATTAGGAGATAAGGGTGTGCCCTGGCGGGAACAGAGGCACTCTAC	
17220	T	C	S	ATATGATTAGGAGATAAGGGTGTCCCCTGGCGGGAACAGAGGCACTCTAC	
				GAGGGAGCAGCCAGGTGGAGCGGGATGGAAGCTGCGTATATGATTAGGAGATAAGGGTGT[GC]CCCTGGCGGGAACAGAGGCACTCTACCGGGCTCTGA	
17220	IS	[GC]		GGGGCTGTCTCTGGACCCAGTGCA	
17251	I		A	GCCCGCCTTTTGTTCCTAGGACTCGGTT	
17251	P	A	A	CGCGCCGAGGACCTTTCTGAACCCAGTY	
17251	P	G	A	ATGACGTGGCAGACGCCTTTCTGAACCCAGY	
17251	T	A	A	TTAGACTGGGTTCAGAAAGGTACCGAGTCCTAGGAACAAAAGGCGGGCGC	
17251	T	G	A	TTAGACTGGGTTCAGAAAGGCACCGAGTCCTAGGAACAAAAGGCGGGCGC	
				ATTCAGCCCCTGTGTCTTCCTGGAGGGCCCTGCGCCCGCCTTTTGTTCCTAGGACTCGGT[AG]CCTTTCTGAACCCAGTCTAAAAATTGCCGCAGCTCTTTC	
17251	IS	[AG]		TGGCGTTAGTCACTGCCTGGT	
17277	I		S	CCACCGCTGCCTCCACTGCCTTGC	
17277	P	A	S	CGCGCCGAGGTCTCGGCTCTGGGAY	
17277	P	C	S	ATGACGTGGCAGACGCTCGGCTCTGGGY	
17277	T	A	S	CCTCTCCCAGAGCCGAGACAAGGCAGTGGAGGCAGCGGTGGCA	
17277	T	C	S	CCTCTCCCAGAGCCGAGCCAAGGCAGTGGAGGCAGCGGTGGCA	
				GGCCCCGCCCCCTCCCATCACCCCGGGCTGCCAGCGCCTGTCACCTCTCCCAGAGCCGAG[AC]CAAGGCAGTGGAGGCAGCGGTGGCAGGGGCTGCAG	
17277	IS	[AC]		GAGCAAGTGACCAGGAGCAGGACTG	
17433	I		S	GGGGTGCCGAAAATTGCTGCCATTTGTCAATT	
17433	P	T	S	CGCGCCGAGGAGTGTCTTGCCTGTAAAATY	
17433	P	C	S	ATGACGTGGCAGACGGTGTCTTGCCTGTAAAAY	
17433	T	T	S	TGAGATTTTACAGGCAAGACACTATTGACAAATGGCAGCAATTTTCGGCACCCCAG	
17433	T	C	S	TGAGATTTTACAGGCAAGACACCATTGACAAATGGCAGCAATTTTCGGCACCCCAG	

FIGURE 129E


CTACATATTGAGCAGCCTGAGACTTGATTTATTAACGATGAGATTTTACAGGCAAGACAC[TC]ATTGACAAATGGCAGCAATTTTCGGCACCCCAGATCAATA
17433 IS [TC] CCCTTTAATCGAGTCAAATC
17465 I S GTAACTGAAGCAAGATCAAGACATCAATCTTGCTCAAAGTCTGATTATCAATTTT
17465 P C S ATGACGTGGCAGACGCCAGCCACCATTTGY
17465 P T S CGCGCCGAGGACCAGCCACCATTTGY
17465 T C S ATAGCAAATGGTGGCTGGCAAATTGATAATCAGACTTTGAGCAAGATTGATGTCTTGATCTTGCTTCAGTTACCT
17465 T T S ATAGCAAATGGTGGCTGGTAAATTGATAATCAGACTTTGAGCAAGATTGATGTCTTGATCTTGCTTCAGTTACCT
CCTGGTCTGTCAAGCAGCTGAATCCCAGTGTGTCTTAATAAAATAGCAAATGGTGGCTGG[CT]AAATTGATAATCAGACTTTGAGCAAGATTGATGTCTTGAT
17465 IS [CT] CTTGCTTCAGTTACCTGCAC
17498 I A TGGTTAACCGCCAGGATGCCATGCTGTAAT
17498 P A A CGCGCCGAGGAGGAGCATTCAAGGAGTAY
17498 P C A ATGACGTGGCAGACCGGAGCATTCAAGGAGY
17498 T A A CTTGTACTCCTTGAATGCTCCTTTACAGCATGGCATCCTGGCGGTTAACCATC
17498 T C A CTTGTACTCCTTGAATGCTCCGTTACAGCATGGCATCCTGGCGGTTAACCATC
ATTTCACCAAAACCCAAAGTCTTCCTGATGATGGTTAACCGCCAGGATGCCATGCTGTAA[AC]GGAGCATTCAAGGAGTACAAGTTCAGGTTTAGTCCTTTCT
17498 IS [AC] CCATCATTTGCTGTGTAAGT
17556 I A CCACCATCTTCTTCGACGTCCCTCCCTA
17556 P T A CGCGCCGAGGTGTATTGGCCATCAGAAATY
17556 P C A ATGACGTGGCAGACCGTATTGGCCATCAGAAAY
17556 T T A TGGGATTTCTGATGGCCAATACAAGGGAGGGACGTCGAAGAAGATGGTGGCA
17556 T C A TGGGATTTCTGATGGCCAATACGAGGGAGGGACGTCGAAGAAGATGGTGGCA
CCTAGGGAGCCAATGTAGGGTCCCCTGAGGATGCCACCATCTTCTTCGACGTCCCTCCCT[TC]GTATTGGCCATCAGAAATCCCACTCCACACTCCAGCTC
17556 IS [TC] CCAGGAGTCTGCAGGGCCCTCA
17582 I A CAAGCGGACGATCTTCACCGATTCCTCATCAAAATCA
17582 P C A ATGACGTGGCAGACCTCATCGATATTGTCAGGCY
17582 P T A CGCGCCGAGGTTCATCGATATTGTCAGGCY
17582 T C A CTCTGCCTGACAATATCGATGAGGATTTTGATGAGGAATCGGTGAAGATCGTCCGCTTGGT
17582 T T A CTCTGCCTGACAATATCGATGAAGATTTTGATGAGGAATCGGTGAAGATCGTCCGCTTGGT
TACCAGGGGTTCCTTGTTCTTCACCAAGCGGACGATCTTCACCGATTCCTCATCAAAATC[CT]TC[TC]ATCGATATTGTCAGGCAGAGGCGGGAGAACGGGGTC
17582 IS [CT] AAAATTCTTCTGGGCAACCGTG
17597 I A CCAGTGGGCGTATCCCAAGATGAAGAATTTTGGAATACATAA
17597 P C A ATGACGTGGCAGACCGAGGGTCTGCAAGAY
17597 P T A CGCGCCGAGGTGAGGGTCTGCAAGAAY
17597 T C A GCTGTTCTTGCAGACCCTCGTATGTATTCCAAAATTCTTCATCTTGGGATACGCCCACTGGTT
17597 T T A GCTGTTCTTGCAGACCCTCATATGTATTCCAAAATTCTTCATCTTGGGATACGCCCACTGGTT
GAAGCCAACAGAGTCCCAACCAGTGGGCGTATCCCAAGATGAAGAATTTTGGAATACATA[CT]GAGGGTCTGCAAGAACAGCTCAGCAGGAATACTCATAAA
17597 IS [CT] GAGACTGAGCCTGTGTATGAG
17651 I S CCACTCCTGGCCCACAGCCCCT
17651 P T S CGCGCCGAGGAGAGAGCCTGTCTGTGY
17651 P C S ATGACGTGGCAGACGGAGAGCCTGTCTGTGY
17651 T T S GATGCACAGACAGGCTCTCTGGGGCTGTGGGCCAGGAGTGGGA
17651 T C S GATGCACAGACAGGCTCTCCGGGGCTGTGGGCCAGGAGTGGGA
CAAGAGAGGCCCTTGCGGAGGCCCAGCAAAGAGTGGTTCAGGATGCACAGACAGGCTCTC[TC]GGGGCTGTGGGCCAGGAGTGGGAAAGCCACCTTAGT
17651 IS [TC] CCTGCTGGAGCAGATTTGGGAAGG ZNF179
17675 I S CCAGCAGACTATCAGATGCACACTGTCATCTTCTCCT
17675 P T S CGCGCCGAGGATCTGGACACATCTGTCCY
17675 P C S ATGACGTGGCAGACGTCTGGACACATCTGTCY
17675 T T S ATGGGGACAGATGTGTCCAGATGGAGAAGATGACAGTGTGCATCTGATAGTCTGCTGGAG
17675 T C S ATGGGGACAGATGTGTCCAGACGGAGAAGATGACAGTGTGCATCTGATAGTCTGCTGGAG
TCTGAAGAAAGGGAAATGGCCTGTGGGTGTGCAAGGCTGATGGGGACAGATGTGTCCAGA[TC]GGAGAAGATGACAGTGTGCATCTGATAGTCTGCTGGA
17675 IS [TC] GGAAGAGGGGGACACTTACTCTC
17679 I A CTGCATACTGGAACTGTGTTGTTCTCTGGTCATTCTGAAAT
17679 P G A ATGACGTGGCAGACGGCAGAAGTTAGCTCTCTY
17679 P A A CGCGCCGAGGAGCAGAAGTTAGCTCTCTAY
17679 T G A GATGTAGAGAGCTAACTTCTGCCTTTCAGAATGACCAGAGAACAACACAGTTCCAGTATGCAGTA
17679 T A A GATGTAGAGAGCTAACTTCTGCTTTTCAGAATGACCAGAGAACAACACAGTTCCAGTATGCAGTA
TTTTTTATACAAAAGCCATACTGCATACTGGAACTGTGTTGTTCTCTGGTCATTCTGAAA[GA]GCAGAAGTTAGCTCTCTACATCTCCTTGGACCCTGCTTTTC
17679 IS [GA] TTGGGAGAGGAGAAGGCAA
17714 I S CAGAAAAACTCCATTTGGTTTTGAAACTCACTTTGTTTTCCTCTCTTCTCT
17714 P T S CGCGCCGAGGATTTGTTTCACACAGTCGCY
17714 P G S ATGACGTGGCAGACCTTTGTTTCACACAGTCGY
17714 T T S GATGGCGACTGTGTGAAACAAATGAGAAGAGAGGAAAACAAAGTGAGTTTCAAAACCAAATGGAGTTTTTCTGTT
17714 T G S GATGGCGACTGTGTGAAACAAAGGAGAAGAGAGGAAAACAAAGTGAGTTTCAAAACCAAATGGAGTTTTTCTGTT
AGACCAGCTCCACTGACAAAATAGTCGTCTTTCAGAAGGATGGCGACTGTGTGAAACAAA[TG]GAGAAGAGAGGAAAACAAAGTGAGTTTCAAAACCAAATG
17714 IS [TG] GAGTTTTTCTGTTACTTCTAA
17814 I S CAACACAGGTGGGTTCTGCTCTAGGCGAC
17814 P A S CGCGCCGAGGTTGTTTCAGGGCTAAATAGCY
17814 P C S ATGACGTGGCAGACGTGTTTCAGGGCTAAATAGCY
17814 T A S GGCAGCTATTTAGCCCTGAAACAATCGCCTAGAGCAGAACCCACCTGTGTTGGA
17814 T C S GGCAGCTATTTAGCCCTGAAACACTCGCCTAGAGCAGAACCCACCTGTGTTGGA
GGGTTTGGGTGGTATCCACATAACAGAATGCTGACTGGGCAGCTATTTAGCCCTGAAACA[AC]TCGCCTAGAGCAGAACCCACCTGTGTTGGATGGAGTAA
17814 IS [AC] AGCCTGGCAAGGAGGGGCTGTT
17819 I A CCAAGGCCCAGAGAGGGGAAGGGACT
17819 P A A CGCGCCGAGGATCAAGCGATATCACTGGY
17819 P C A ATGACGTGGCAGACCTCAAGCGATATCACTGGY
17819 T A A CAGCCCAGTGATATCGCTTGATGTCCCTTCCCCTCTCTGGGCCTTGGTG
17819 T C A CAGCCCAGTGATATCGCTTGAGGTCCCTTCCCCTCTCTGGGCCTTGGTG
ATTTCTACTTCCACGCACACATAGAGAAGGGGACACCAAGGCCCAGAGAGGGGAAGGGAC[AC]TCAAGCGATATCACTGGGCTGGGCAGCGGCCCCCCAG
17819 IS [AC] CTCCTGGCTTCTGGGAGAGGAGA
17821 I S GGCTGGATGAAGTACTCGCCATCTCTTGCTTTGT
17821 P T S CGCGCCGAGGACAGGGCTTTCCTAACTY
17821 P C S ATGACGTGGCAGACGCAGGGCTTTCCTAACY
17821 T T S GTGAAGTTAGGAAAGCCCTGTCAAAGCAAGAGATGGCGAGTACTTCATCCAGCCAA
17821 T C S GTGAAGTTAGGAAAGCCCTGCCAAAGCAAGAGATGGCGAGTACTTCATCCAGCCAA
ATTGTCATTCAGAAATACCATACTGTGAATGGCCACATCTGTGAAGTTAGGAAAGCCCTG[TC]CAAAGCAAGAGATGGCGAGTACTTCATCCAGCCAAAGAG
17821 IS [TC] GTCAAAGTGGTTCTGGAAACT
17846 I A GGATCTTCTCCCCAGTAATGGGGGACACAAGATACTCT
17846 P A A CGCGCCGAGGATCTGGAGCAGGGGY
17846 P C A ATGACGTGGCAGACCTCTGGAGCAGGGGY
17846 T A A CCAGCCCCTGCTCCAGATGAGTATCTTGTGTCCCCCATTACTGGGGAGAAGATCCCC
17846 T C A CCAGCCCCTGCTCCAGAGGAGTATCTTGTGTCCCCCATTACTGGGGAGAAGATCCCC
GTGTTCCTGCATTTTGCTGGCGGGGATCTTCTCCCCAGTAATGGGGGACACAAGATACTC[AC]TCTGGAGCAGGGGCTGGAGGCAAGGGCTTGGAGGCTA
17846 IS [AC] AAAGGAAACAGATGTTTCAGTAA
17872 I A GGGTCTATGTTCGCAAGTTCCTGATCTACATCATCTTCATCTTTTTCC
17872 P A A CGCGCCGAGGAATGTTTTCTTTCTCAGCATCY
17872 P T A ATGACGTGGCAGACTATGTTTTCTTTCTCAGCATCTY
17872 T A A AAGAAGATGCTGAGAAAGAAAACATTGAAAAAGATGAAGATGATGTAGATCAGGAACTTGCGAACATAGACCCTA
17872 T T A AAGAAGATGCTGAGAAAGAAAACATAGAAAAAGATGAAGATGATGTAGATCAGGAACTTGCGAACATAGACCCTA

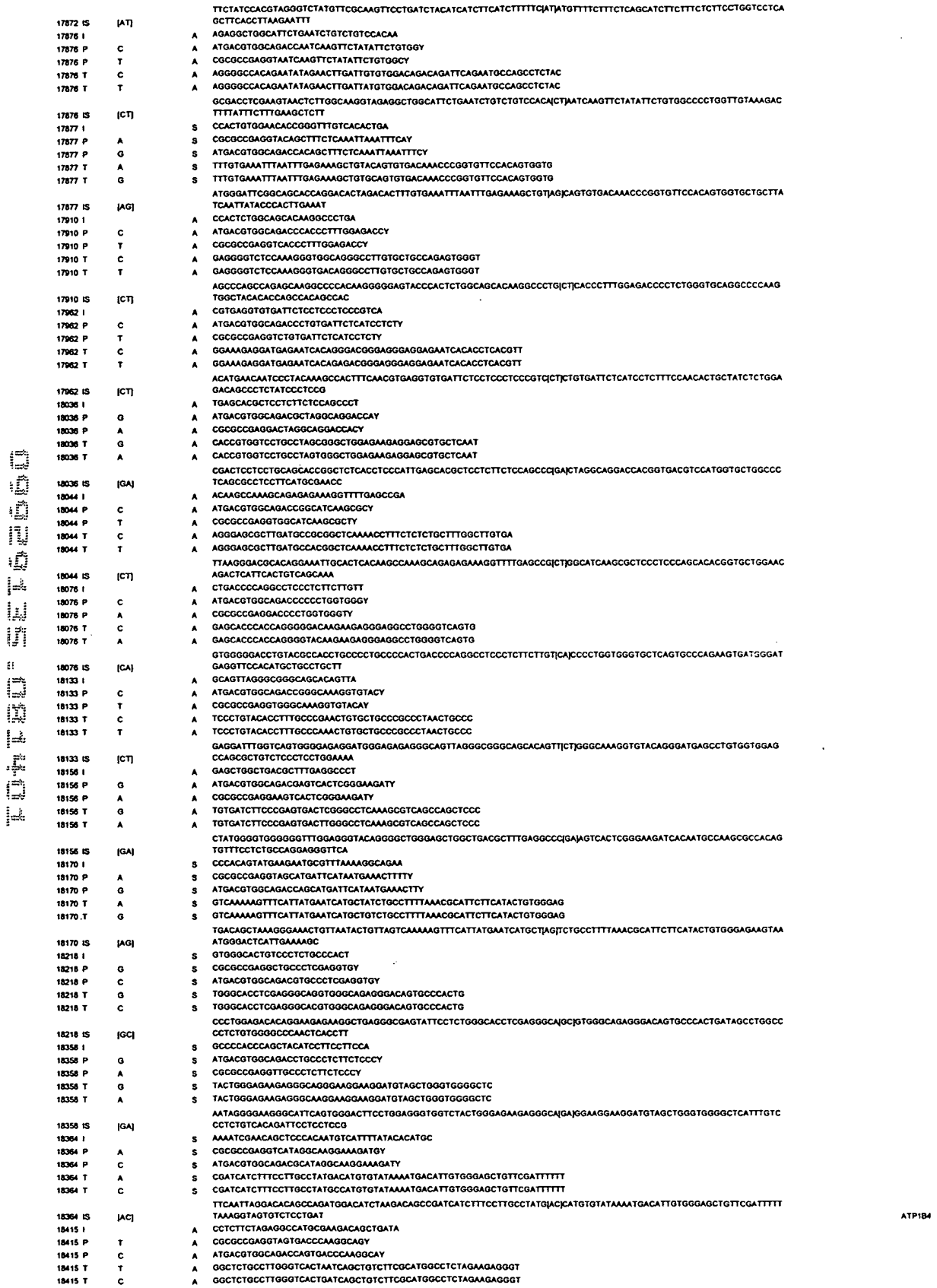

TTCTATCCACGTAGGGTCTATGTTCGCAAGTTCCTGATCTACATCATCTTCATCTTTTT[C/A]TATGTTTTCTTTCTCAGCATCTTCTTTCTCTTCCTGGTCCTCA
17872 tS [AT] GCTTCACCTTAAGAATTT
17876 I A AGAGGCTGGCATTCTGAATCTGTCTGTCCACAA
17876 P C A ATGACGTGGCAGACCAATCAAGTTCTATATTCTGTGGY
17876 P T A CGCGCCGAGGTAATCAAGTTCTATATTCTGTGGCY
17876 T C A AGGGGCCACAGAATATAGAACTTGATTGTGTGGACAGACAGATTCAGAATGCCAGCCTCTAC
17876 T T A AGGGGCCACAGAATATAGAACTTGATTATGTGGACAGACAGATTCAGAATGCCAGCCTCTAC
GCGACCTCGAAGTAACTCTTGGCAAGGTAGAGGCTGGCATTCTGAATCTGTCTGTCCACA[CT]AATCAAGTTCTATATTCTGTGGCCCCTGGTTGTAAAGAC
17876 tS [CT] TTTTATTCTTTGAAGCTCTT
17877 I S CCACTGTGGAACACCGGGTTTGTCACACTGA
17877 P A S CGCGCCGAGGTACAGCTTTCTCAAATTAAATTTCAY
17877 P G S ATGACGTGGCAGACCACAGCTTTCTCAAATTAAATTTCY
17877 T A S TTTGTGAAATTTAATTTGAGAAAGCTGTACAGTGTGACAAACCCGGTGTTCCACAGTGGTG
17877 T G S TTTGTGAAATTTAATTTGAGAAAGCTGTGCAGTGTGACAAACCCGGTGTTCCACAGTGGTG
ATGGGATTCGGCAGCACCAGGACACTAGACACTTTGTGAAATTTAATTTGAGAAAGCTGT[AG]CAGTGTGACAAACCCGGTGTTCCACAGTGGTGCTGCTTA
17877 tS [AG] TCAATTATACCCACTTGAAAT
17910 I A CCACTCTGGCAGCACAAGGCCCTGA
17910 P C A ATGACGTGGCAGACCCACCCTTTGGAGACCY
17910 P T A CGCGCCGAGGTCACCCTTTGGAGACCY
17910 T C A GAGGGGTCTCCAAAGGGTGGCAGGGCCTTGTGCTGCCAGAGTGGGT
17910 T T A GAGGGGTCTCCAAAGGGTGACAGGGCCTTGTGCTGCCAGAGTGGGT
AGCCCAGCCAGAGCAAGGCCCCACAAGGGGGAGTACCCACTCTGGCAGCACAAGGCCCTG[CT]CACCCTTTGGAGACCCCTCTGGGTGCAGGCCCCAAG
17910 tS [CT] TGGCTACACACCAGCCACAGCCAC
17962 I A CGTGAGGTGTGATTCTCCTCCCTCCCGTCA
17962 P C A ATGACGTGGCAGACCCTGTGATTCTCATCCTCTY
17962 P T A CGCGCCGAGGTCTGTGATTCTCATCCTCTY
17962 T C A GGAAAGAGGATGAGAATCACAGGGACGGGAGGGAGGAGAATCACACCTCACGTT
17962 T T A GGAAAGAGGATGAGAATCACAGAGACGGGAGGGAGGAGAATCACACCTCACGTT
ACATGAACAATCCCTACAAAGCCACTTTCAACGTGAGGTGTGATTCTCCTCCCTCCCGTC[CT]CTGTGATTCTCATCCTCTTTCCAACACTGCTATCTCTGGA
17962 tS [CT] GACAGCCCTCTATCCCTCCG
18036 I A TGAGCACGCTCCTCTTCTCCAGCCCT
18036 P G A ATGACGTGGCAGACGCTAGGCAGGACCAY
18036 P A A CGCGCCGAGGACTAGGCAGGACCACY
18036 T G A CACCGTGGTCCTGCCTAGCGGGCTGGAGAAGAGGAGCGTGCTCAAT
18036 T A A CACCGTGGTCCTGCCTAGTGGGCTGGAGAAGAGGAGCGTGCTCAAT
CGACTCCTCCTGCAGCACCGGCTCTCACCTCCCATTGAGCACGCTCCTCTTCTCCAGCCC[GA]CTAGGCAGGACCACGGTGACGTCCATGGTGCTGGCCC
18036 tS [GA] TCAGCGCCTCCTTCATGCGAACC
18044 I A ACAAGCCAAAGCAGAGAGAAAGGTTTTGAGCCGA
18044 P C A ATGACGTGGCAGACCGGCATCAAGCGCY
18044 P T A CGCGCCGAGGTGGCATCAAGCGCTY
18044 T C A AGGGAGCGCTTGATGCCGCGGCTCAAAACCTTTCTCTCTGCTTTGGCTTGTGA
18044 T T A AGGGAGCGCTTGATGCCACGGCTCAAAACCTTTCTCTCTGCTTTGGCTTGTGA
TTAAGGGACGCACAGAAATTGCACTCACAAGCCAAAGCAGAGAGAAAGGTTTTGAGCCG[CT]GGCATCAAGCGCTCCCTCCCAGCACACGGTGCTGGAAC
18044 tS [CT] AGACTCATTCACTGTCAGCAAA
18076 I A CTGACCCCAGGCCTCCCTCTTCTTGTT
18076 P C A ATGACGTGGCAGACCCCCCTGGTGGGY
18076 P A A CGCGCCGAGGACCCCTGGTGGGTY
18076 T C A GAGCACCCACCAGGGGGACAAGAAGAGGGAGGCCTGGGGTCAGTG
18076 T A A GAGCACCCACCAGGGGTACAAGAAGAGGGAGGCCTGGGGTCAGTG
GTGGGGGACCTGTACGCCACCTGCCCCTGCCCCACTGACCCCAGGCCTCCCTCTTCTTGT[CA]CCCCTGGTGGGTGCTCAGTGCCCAGAAGTGATGGGAT
18076 tS [CA] GAGGTTCCACATGCTGCCTGCTT
18133 I A GCAGTTAGGGCGGGCAGCACAGTTA
18133 P C A ATGACGTGGCAGACCGGGCAAAGGTGTACY
18133 P T A CGCGCCGAGGTGGGCAAAGGTGTACAY
18133 T C A TCCCTGTACACCTTTGCCCGAACTGTGCTGCCCGCCCTAACTGCCC
18133 T T A TCCCTGTACACCTTTGCCCAAACTGTGCTGCCCGCCCTAACTGCCC
GAGGATTTGGTCAGTGGGGAGAGGATGGGAGAGAGGGCAGTTAGGGCGGGCAGCACAGTT[CT]GGGCAAAGGTGTACAGGGATGAGCCTGTGGTGGAG
18133 tS [CT] CCAGCGCTGTCTCCCTCCTGGAAAA
18156 I A GAGCTGGCTGACGCTTTGAGGCCCT
18156 P G A ATGACGTGGCAGACGAGTCACTCGGGAAGATY
18156 P A A CGCGCCGAGGAAGTCACTCGGGAAGATY
18156 T G A TGTGATCTTCCCGAGTGACTCGGGCCTCAAAGCGTCAGCCAGCTCCC
18156 T A A TGTGATCTTCCCGAGTGACTTGGGCCTCAAAGCGTCAGCCAGCTCCC
CTATGGGGTGGGGGGTTTGGAGGGTACAGGGGCTGGGAGCTGGCTGACGCTTTGAGGCCC[GA]AGTCACTCGGGAAGATCACAATGCCAAGCGCCACAG
18156 tS [GA] TGTTTCCTCTGCCAGGAGGGTTCA
18170 I S CCCACAGTATGAAGAATGCGTTTAAAAGGCAGAA
18170 P A S CGCGCCGAGGTAGCATGATTCATAATGAAACTTTTY
18170 P G S ATGACGTGGCAGACCAGCATGATTCATAATGAAACTTY
18170 T A S GTCAAAAAGTTTCATTATGAATCATGCTATCTGCCTTTTAAACGCATTCTTCATACTGTGGGAG
18170 .T G S GTCAAAAAGTTTCATTATGAATCATGCTGTCTGCCTTTTAAACGCATTCTTCATACTGTGGGAG
TGACAGCTAAAGGGAAACTGTTAATACTGTTAGTCAAAAAGTTTCATTATGAATCATGCT[AG]TCTGCCTTTTAAACGCATTCTTCATACTGTGGGAGAAGTAA
18170 tS [AG] ATGGGACTCATTGAAAAGC
18218 I S GTGGGCACTGTCCCTCTGCCCACT
18218 P G S CGCGCCGAGGCTGCCCTCGAGGTGY
18218 P C S ATGACGTGGCAGACGTGCCCTCGAGGTGY
18218 T G S TGGGCACCTCGAGGGCAGGTGGGCAGAGGGACAGTGCCCACTG
18218 T C S TGGGCACCTCGAGGGCACGTGGGCAGAGGGACAGTGCCCACTG
CCCTGGAGACACAGGAAGAGAAGGCTGAGGGCGAGTATTCCTCTGGGCACCTCGAGGGCA[GC]GTGGGCAGAGGGACAGTGCCCACTGATAGCCTGGCC
18218 tS [GC] CCTCTGTGGGGCCCAACTCACCTT
18358 I S GCCCCACCCAGCTACATCCTTCCTTCCA
18358 P G S ATGACGTGGCAGACCTGCCCTCTTCTCCCY
18358 P A S CGCGCCGAGGTTGCCCTCTTCTCCCY
18358 T G S TACTGGGAGAAGAGGGCAGGGAAGGAAGGATGTAGCTGGGTGGGGCTC
18358 T A S TACTGGGAGAAGAGGGCAAGGAAGGAAGGATGTAGCTGGGTGGGGCTC
AATAGGGGAAGGGCATTCAGTGGGACTTCCTGGAGGGTGGTCTACTGGGAGAAGAGGGCA[GA]GGAAGGAAGGATGTAGCTGGGTGGGGCTCATTTGTC
18358 tS [GA] CCTCTGTCACAGATTCCTCCTCCG
18364 I S AAAATCGAACAGCTCCCACAATGTCATTTTATACACATGC
18364 P A S CGCGCCGAGGTCATAGGCAAGGAAAGATGY
18364 P C S ATGACGTGGCAGACGCATAGGCAAGGAAAGATY
18364 T A S CGATCATCTTTCCTTGCCTATGACATGTGTATAAAATGACATTGTGGGAGCTGTTCGATTTTTT
18364 T C S CGATCATCTTTCCTTGCCTATGCCATGTGTATAAAATGACATTGTGGGAGCTGTTCGATTTTTT
TTCAATTAGGACACAGCCAGATGGACATCTAAGACAGCCGATCATCTTTCCTTGCCTATG[AC]CATGTGTATAAAATGACATTGTGGGAGCTGTTCGATTTTT
18364 tS [AC] TAAAGGTAGTGTCTCCTGAT ATP1B4
18415 I A CCTCTTCTAGAGGCCATGCGAAGACAGCTGATA
18415 P T A CGCGCCGAGGTAGTGACCCAAGGCAGY
18415 P C A ATGACGTGGCAGACCAGTGACCCAAGGCAY
18415 T T A GGCTCTGCCTTGGGTCACTAATCAGCTGTCTTCGCATGGCCTCTAGAAGAGGGT
18415 T C A GGCTCTGCCTTGGGTCACTGATCAGCTGTCTTCGCATGGCCTCTAGAAGAGGGT

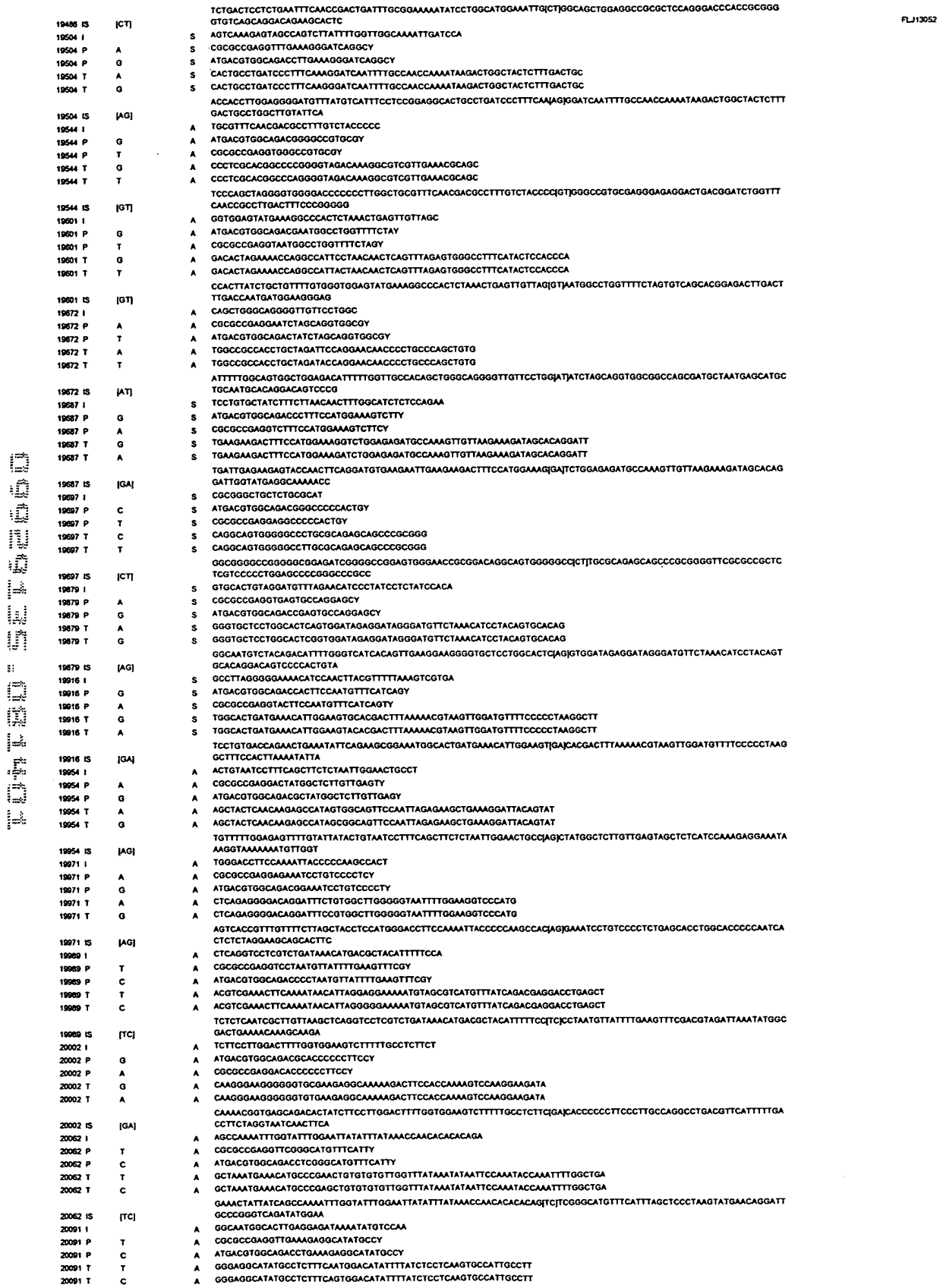
FIGURE 129E

			CTCATCTTCAGGATAAAGAACAATCCACCCTCTTCTAGAGGCCATGCGAAGACAGCTGA[T/C]AGTGACCCAAGGCAGAGCCACATGCAGACAGAGTATTTC
18415 IS	[TC]		GAAGTTTACTGTAGAACCATT
18416 I		A	GAATGCAAGCTTGTCTTTCACAATGTAGACATCTAAACAA
18416 P	T	A	CGCGCCGAGGTTCTCCTTTAGAAGTACCCAY
18416 P	C	A	ATGACGTGGCAGACCTCTCCTTTAGAAGTACCCAY
18416 T	T	A	GCAATGGGTACTTCTAAAGGAGAATGTTTAGATGTCTACATTGTGAAAGACAAGCTTGCATTCGA
18416 T	C	A	GCAATGGGTACTTCTAAAGGAGAGTGTTTAGATGTCTACATTGTGAAAGACAAGCTTGCATTCGA
			TCACTTAATTATGATTGTATCGAATGCAAGCTTGTCTTTCACAATGTAGACATCTAAACA[T/C]TCTCCTTTAGAAGTACCCATTGCGCTTTTATTGTTTTCAAGT
18416 IS	[TC]		TTCATAAAGTTAGGAGCT
18442 I		A	CAGACAAGAGTGCTCACACCTCAAGTTGTTTTTGAGAATTATATGAGAT
18442 P	G	A	ATGACGTGGCAGACGAATACATCTAATGAACTTACAATTAAACY
18442 P	C	A	CGCGCCGAGGCAATACATCTAATGAACTTACAATTAAACY
18442 T	G	A	AGAAGTTTAATTGTAAGTTCATTAGATGTATTCTCTCATATAATTCTCAAAAACAACTTGAGGTGTGAGCACTCTTGTCTGCC
18442 T	C	A	AGAAGTTTAATTGTAAGTTCATTAGATGTATTGTCTCATATAATTCTCAAAAACAACTTGAGGTGTGAGCACTCTTGTCTGCC
			TGAACAACAGGGCAGACAAGAGTGCTCACACCTCAAGTTGTTTTTGAGAATTATATGAGA[G/C]AATACATCTAATGAACTTACAATTAAACTTCTCCACTCCCT
18442 IS	[GC]		AATAAGTTTTCTGAAAGAA
18453 I		S	CGCTGAGGGCATAACGAAGGTAAAGAAGGCGA
18453 P	A	S	CGCGCCGAGGTGGCTACTGCCCAAAY
18453 P	G	S	ATGACGTGGCAGACCGGCTACTGCCCAAY
18453 T	A	S	TGGATTTGGGCAGTAGCCACGCCTTCTTTACCTTCGTTATGCCCTCAGCGTT
18453 T	G	S	TGGATTTGGGCAGTAGCCGCGCCTTCTTTACCTTCGTTATGCCCTCAGCGTT
			GTGCCGCACTTCCGAGAACTGACGGCCTCCTGGTAGCCATCTTGGATTTGGGCAGTAGCC[A/G]CGCCTTCTTTACCTTCGTTATGCCCTCAGCGTTAAGGC
18453 IS	[AG]		GCCTGCGTGTTCTGGTTGGGCT
18546 I		A	TGTTGGACTTGTCCTGCAATTCTGAGACCCTCAA
18546 P	C	A	ATGACGTGGCAGACCCTCTTTCCCACTATATAGTGY
18546 P	T	A	CGCGCCGAGGTCTCTTTCCCACTATATAGTGAY
18546 T	C	A	GAGGTCACTATATAGTGGGAAAGAGGTGAGGGTCTCAGAATTGCAGGACAAGTCCAACAAC
18546 T	T	A	GAGGTCACTATATAGTGGGAAAGAGATGAGGGTCTCAGAATTGCAGGACAAGTCCAACAAC
			ATTGCCATGTCTCATGCTGGTACCTGTTGTTGGACTTGTCCTGCAATTCTGAGACCCTCA[C/T]CTCTTTCCCACTATATAGTGACCTCCTGGAGAACATGATA
18546 IS	[CT]		AAGCTGTTGTCATCTTGCTG
18628 I		A	GCCCTTTACCATGTCTCTTTTCTAGCTCTGGCCTTAT
18628 P	A	A	CGCGCCGAGGACCCAGAAACTGGCTY
18628 P	G	A	ATGACGTGGCAGACGCCCAGAAACTGGCY
18628 T	A	A	TGCCAGCCAGTTTCTGGGTTAAGGCCAGAGCTAGAAAAGAGACATGGTAAAGGGCCA
18628 T	G	A	TGCCAGCCAGTTTCTGGGCTAAGGCCAGAGCTAGAAAAGAGACATGGTAAAGGGCCA
			CCAGTACAAGAAGGACATTTCCTGGCCCTTTACCATGTCTCTTTTCTAGCTCTGGCCTTA[A/G]CCCAGAAACTGGCTGGCAAGCTGCGGGGAGGGCATCAG
18628 IS	[AG]		AAGGGAGGAGGGAAAGCACTAG
18731 I		A	GTAGCCTGTCCTTCAATGGTAAGACAATTTTAGAAGTATCTACCATCTTTCATAAAACT
18731 P	A	A	CGCGCCGAGGATGTGGACACTAGTTTTCAGY
18731 P	G	A	ATGACGTGGCAGACGTGTGGACACTAGTTTTCAY
18731 T	A	A	ATAGCTGAAAACTAGTGTCCACATGTTTTATGAAAGATGGTAGATACTTCTAAAATTGTCTTACCATTGAAGGACAGGCTACCC
18731 T	G	A	ATAGCTGAAAACTAGTGTCCACACGTTTTATGAAAGATGGTAGATACTTCTAAAATTGTCTTACCATTGAAGGACAGGCTACCC
			GGGTAGCCTGTCCTTCAATGGTAAGACAATTTTAGAAGTATCTACCATCTTTCATAAAAC[A/G]TGTGGACACTAGTTTTCAGCTATTCTGCACCAGCTCACAA
18731 IS	[AG]		GATGGCGGTGTTCTATTTTG
18793 I		A	CTTTGAGAACGCTGGCATGTGTGCTTCTTGTCTC
18793 P	G	A	ATGACGTGGCAGACGTGACCTCTGAGGAGTCY
18793 P	T	A	CGCGCCGAGGTTGACCTCTGAGGAGTCY
18793 T	G	A	ATCCGACTCCTCAGAGGTCACAGACAAGAAGCACACATGCCAGCGTTCTCAAAGAA
18793 T	T	A	ATCCGACTCCTCAGAGGTCAAAGACAAGAAGCACACATGCCAGCGTTCTCAAAGAA
			TAAAGGACCCCAAAACATCTCGCCCTTCTTTGAGAACGCTGGCATGTGTGCTTCTTGTCT[G/T]TGACCTCTGAGGAGTCGGATCCCCAGGTGCTTCAATAGC
18793 IS	[GT]		TCTGAGCTGTCCTTTATTTTG
18883 I		S	CCCAGACCTTCACACGAGCTGCTCCCA
18883 P	A	S	CGCGCCGAGGTTGGCCTGTGGGTGY
18883 P	G	S	ATGACGTGGCAGACCTGGCCTGTGGGTY
18883 T	A	S	GAAGCACCCACAGGCCAAGGGAGCAGCTCGTGTGAAGGTCTGGGCA
18883 T	G	S	GAAGCACCCACAGGCCAGGGGAGCAGCTCGTGTGAAGGTCTGGGCA
			GGGCCCTGCAGGGGTAACGGGATGACTTCCATGGGTGAATGCAGAAGCACCCACAGGCCA[A/G]GGGAGCAGCTCGTGTGAAGGTCTGGGCAGGAGCGG
18883 IS	[AG]		GCTGGCTGTGCAGGGGGAGCAGCCG
18913 I		A	AGTCAGGGATCTGGAATGGGACTTCCAACAGATATGTA
18913 P	T	A	CGCGCCGAGGTGCTGGGCTATGTTGTY
18913 P	C	A	ATGACGTGGCAGACCGCTGGGCTATGTTGY
18913 T	T	A	AATAACAACATAGCCCAGCAACATATCTGTTGGAAGTCCCATTCCAGATCCCTGACTTC
18913 T	C	A	AATAACAACATAGCCCAGCGACATATCTGTTGGAAGTCCCATTCCAGATCCCTGACTTC
			CATCGGGAAGCAGGATTAGATGAAGTCAGGGATCTGGAATGGGACTTCCAACAGATATGT[T/C]GCTGGGCTATGTTGTTATTGATGATGGTTCTGTCTTTGT
18913 IS	[TC]		TTCTCAGTCTCATTTAGTTCC
18937 I		S	AGGGCTGCCCAGAGACTCATTTCAAGACATTTATCTGA
18937 P	G	S	ATGACGTGGCAGACCCACTGAACAATGGTGTY
18937 P	A	S	CGCGCCGAGGTCACTGAACAATGGTGTCY
18937 T	G	S	AGCAGACACCATTGTTCAGTGGCAGATAAATGTCTTGAAATGAGTCTCTGGGCAGCCCTGC
18937 T	A	S	AGCAGACACCATTGTTCAGTGACAGATAAATGTCTTGAAATGAGTCTCTGGGCAGCCCTGC
			TGCTGCTCTACTTGGCAGTCGCTTTAATTTCTTCTCAGCAGCAGACACCATTGTTCAGTG[G/A]CAGATAAATGTCTTGAAATGAGTCTCTGGGCAGCCCTGC
18937 IS	[GA]		TCTTGAGTGAGAAGGCACATC
18939 I		A	GCTGAGGGCTGGAATTCGTCTCAATTTTGTAGGACCT
18939 P	A	A	CGCGCCGAGGATGTTCCAGAGATGAGCCY
18939 P	G	A	ATGACGTGGCAGACGTGTTCCAGAGATGAGCY
18939 T	A	A	CCTAGGCTCATCTCTGGAACATGGTCCTACAAAATTGAGACGAATTCCAGCCCTCAGCTG
18939 T	G	A	CCTAGGCTCATCTCTGGAACACGGTCCTACAAAATTGAGACGAATTCCAGCCCTCAGCTG
			ACTAGAAACCTCATTATCATTGCAGCTGAGGGCTGGAATTCGTCTCAATTTTGTAGGACC[A/G]TGTTCCAGAGATGAGCCTAGGACTTCCTAACACTCTTTTT
18939 IS	[AG]		CCCATTTTTGAAACTAATTA
19009 I		S	GCCACCTCCTCTCTTCCCATCCCTCAGACC
19009 P	C	S	ATGACGTGGCAGACGCACCAGCAGCAGAY
19009 P	A	S	CGCGCCGAGGTCACCAGCAGCAGAGY
19009 T	C	S	CGCCCTCTGCTGCTGGTGCGTCTGAGGGATGGGAAGAGAGGAGGTGGCTG
19009 T	A	S	CGCCCTCTGCTGCTGGTGAGTCTGAGGGATGGGAAGAGAGGAGGTGGCTG
			CCCTTCCAAATGTAGCACATGGCCTGGTAGATGGAGAAGACACGCCCTCTGCTGCTGGTG[C/A]GTCTGAGGGATGGGAAGAGAGGAGGTGGCTGAGGGCA
19009 IS	[CA]		AGGGGGCACCTTCCTCACCTGGA
19017 I		A	CGGGGTTGCAGAGAGGGAGGGCAGA
19017 P	T	A	CGCGCCGAGGTTGAGTCAGCACAGGCY
19017 P	C	A	ATGACGTGGCAGACCTGAGTCAGCACAGGCY
19017 T	T	A	TCCAGCCTGTGCTGACTCAACTGCCCTCCCTCTCTGCAACCCCGGT
19017 T	C	A	TCCAGCCTGTGCTGACTCAGCTGCCCTCCCTCTCTGCAACCCCGGT
			ACTGCTCAGGGTGCAGGGGAGTCTGGCAGATGCTACCGGGGTTGCAGAGAGGGAGGGCAG[T/C]TGAGTCAGCACAGGCTGGAGAGGGAAACTGCAGACA
19017 IS	[TC]		CAGACAGTCACTGGTGCTGCGTCA
19018 I		S	GCCTGGGACAGCCCAGCCCCC
19018 P	A	S	CGCGCCGAGGTTTGTGAGGGTTAAGGGY
19018 P	T	S	ATGACGTGGCAGACATTGTGAGGGTTAAGGGY
19018 T	A	S	ACAGCCCTTAACCCTCACAAAGGGGCTGGGCTGTCCCAGGCTT
19018 T	T	S	ACAGCCCTTAACCCTCACAATGGGGCTGGGCTGTCCCAGGCTT

FIGURE 129E

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                                GAGGGACATGAGGAGGAGAGGAATCCAGGCCGTGGTGGAGACAGCCCTTAACCCTCACAA[AT]GGGGCTGGGCTGTCCCAGGCTTGTGTAATTTCCCTCC
19018 IS    [AT]                TGCTCCCAGGGAAAAGGGGCTGT
19100 I              A          CCCATACAGCATTCTCTCCATGTGAACATTCTATTTCTCTATAAGCTCTAT
19100 P     G        A          ATGACGTGGCAGACGACCAAATGCTACTTAGTACAY
19100 P     C        A          CGCGCCGAGGCACCAAATGCTACTTAGTACAY
19100 T     G        A          TTTATGTACTAAGTAGCATTTGGTCTAGAGCTTATAGAGAAATAGAATGTTCACATGGAGAGAATGCTGTATGGGGA
19100 T     C        A          TTTATGTACTAAGTAGCATTTGGTGTAGAGCTTATAGAGAAATAGAATGTTCACATGGAGAGAATGCTGTATGGGGA
                                TCTGGAGTTCCCCATACAGCATTCTCTCCATGTGAACATTCTATTTCTCTATAAGCTCTA[GC]ACCAAATGCTACTTAGTACATAAAATGATATTCCTGTGTTT
19100 IS    [GC]                CTCCCAGTTGAAAATAATA
19118 I              A          TCCCTAGCCCCCCACCTGCCAAA
19118 P     C        A          ATGACGTGGCAGACCGCCAGCGGGAGY
19118 P     T        A          CGCGCCGAGGTGCCAGCGGGAGY
19118 T     C        A          CTGGCTCCCGCTGGCGTTGGCAGGTGGGGGGCTAGGGACA
19118 T     T        A          CTGGCTCCCGCTGGCATTGGCAGGTGGGGGGCTAGGGACA
                                GGTCCAAGTTCTAGGGCAAGCTGAGGCCAGGAGACCTGTCCCTAGCCCCCCACCTGCCAA[CT]GCCAGCGGGAGCCAGGACAGCGGGACATGGGTCCTT
19118 IS    [CT]                CAGGGGACAGCAGGCTGGAGGATG
19149 I              A          TGCCTGGTCCCTGCAGGCTTTGAGTTC
19149 P     G        A          ATGACGTGGCAGACGGCGACGCTTCCTY
19149 P     T        A          CGCGCCGAGGTGCGACGCTTCCTTY
19149 T     G        A          GGGCAAGGAAGCGTCGCCAACTCAAAGCCTGCAGGGACCAGGCAGG
19149 T     T        A          GGGCAAGGAAGCGTCGCAAACTCAAAGCCTGCAGGGACCAGGCAGG
                                AGCGTCCTAACCCAACCAGTTCATCCATGTTCCCTGCCTGGTCCCTGCAGGCTTTGAGTT[GT]GCGACGCTTCCTTGCCCCCTCGTCAATGGGTAATACCG
19149 IS    [GT]                CCTCAGAATAGCCCTCAGATCT
19179 I              S          GCTGGAGATGTCTCCTTCTACAACATGAGGGACAGATCT
19179 P     C        S          ATGACGTGGCAGACGCACATCTACACATGTCCY
19179 P     T        S          CGCGCCGAGGACACATCTACACATGTCCY
19179 T     C        S          ACGGGGACATGTGTAGATGTGCGATCTGTCCCTCATGTTGTAGAAGGAGACATCTCCAGCTT
19179 T     T        S          ACGGGGACATGTGTAGATGTGTGATCTGTCCCTCATGTTGTAGAAGGAGACATCTCCAGCTT
                                TAACCTGAAGAAGGGCCTCACAGGCACAGTAAAGGCTGAACGGGGACATGTGTAGATGTG[CT]GATCTGTCCCTCATGTTGTAGAAGGAGACATCTCCAGC
19179 IS    [CT]                TTCATAGTCCAGGAAGACGCCC                                                                                  BTN2A2
19242 I              S          GATCTTTTTTATATAAAGCATCTGGGGGTAGTACAGGCAT
19242 P     C        S          ATGACGTGGCAGACGAGGAATGGAGAGTCCAY
19242 P     G        S          CGCGCCGAGGCAGGAATGGAGAGTCCAY
19242 T     C        S          GACTTGGACTCTCCATTCCTCTGCCTGTACTACCCCCAGATGCTTTATATAAAAAAGATCAG
19242 T     G        S          GACTTGGACTCTCCATTCCTGTGCCTGTACTACCCCCAGATGCTTTATATAAAAAAGATCAG
                                GCGTGAGTTGTACGTGAGCGTCCAGTGGCCGTGCATTCCTGACTTGGACTCTCCATTCCT[CG]TGCCTGTACTACCCCCAGATGCTTTATATAAAAAAGATC
19242 IS    [CG]                AGTAATATCAAAGAGCACCTG
19252 I              A          GTGTCAGCATTCTGATTGCTGCTGGGCAT
19252 P     C        A          ATGACGTGGCAGACCACAAAGCAACGTAATTTTATCY
19252 P     A        A          CGCGCCGAGGAACAAAGCAACGTAATTTTATCCY
19252 T     C        A          TTGTGGATAAAATTACGTTGCTTTGTGTGCCCAGCAGCAATCAGAATGCTGACACCA
19252 T     A        A          TTGTGGATAAAATTACGTTGCTTTGTTTGCCCAGCAGCAATCAGAATGCTGACACCA
                                TTAATTTAATCTGCAGCCACCATGTTACGCTGGTGTCAGCATTCTGATTGCTGCTGGGCA[CA]ACAAAGCAACGTAATTTTATCCACAAAGCTGATAAATCTC
19252 IS    [CA]                ATTTAGAAAAACACCCAATT
19262 I              A          CCAGCATTTCCTCTGTAATGAGAAATCCCACTGGGAGT
19262 P     A        A          CGCGCCGAGGAGGTGGAGTGAGGAAGY
19262 P     C        A          ATGACGTGGCAGACCGGTGGAGTGAGGAAY
19262 T     A        A          AGCCCTTCCTCACTCCACCTCTCCCAGTGGGATTTCTCATTACAGAGGAAATGCTGGAG
19262 T     C        A          AGCCCTTCCTCACTCCACCGCTCCCAGTGGGATTTCTCATTACAGAGGAAATGCTGGAG
                                AAATGATCACAGCCCAGCCTCCTCCAGCATTTCCTCTGTAATGAGAAATCCCACTGGGAG[AC]GGTGGAGTGAGGAAGGGCTCAAGCAGAAGAGGGGTTAT
19262 IS    [AC]                TTCCTTACAATCAGGAGCCCCA
19328 I              S          GTGGCCCTCCCAGGCTGGATGGT
19328 P     C        S          ATGACGTGGCAGACGCATCCAGCCCTCAY
19328 P     G        S          CGCGCCGAGGCCATCCAGCCCTCAGY
19328 T     C        S          TAGGCTGAGGGCTGGATGCCCATCCAGCCTGGGAGGGCCACAC
19328 T     G        S          TAGGCTGAGGGCTGGATGGCCATCCAGCCTGGGAGGGCCACAC
                                CCCTGCAGTGGCCTTAGAGACAGTCCCCGGGACCCCAGGGTCTAGGCTGAGGGCTGGATG[CG]CCATCCAGCCTGGGAGGGCCACACAGGGCCCTGGG
19328 IS    [CG]                GACACAGGCGTCACCCCAAGGGGAG
19345 I              A          TGCCTCGTGGGGCCCTTCTCTAATCCTAATT
19345 P     G        A          ATGACGTGGCAGACGTGGTCTGAACCACTGAY
19345 P     A        A          CGCGCCGAGGATGGTCTGAACCACTGAY
19345 T     G        A          TCTCTCAGTGGTTCAGACCACATTAGGATTAGAGAAGGGCCCCACGAGGCACC
19345 T     A        A          TCTCTCAGTGGTTCAGACCATATTAGGATTAGAGAAGGGCCCCACGAGGCACC
                                CTGGGAGTCGCTCACAGACACGCCTGGCGGTGCCTCGTGGGGCCCTTCTCTAATCCTAAT[GA]TGGTCTGAACCACTGAGAGAAGGTTTGTGTGAAGAGG
19345 IS    [GA]                CCATTGCTCTAGATCTGGATTTT
19398 I              A          GGCAGGAGCTCAGGAGGACCCTGGT
19398 P     C        A          ATGACGTGGCAGACCTCATATCAAGGGCCAGAY
19398 P     A        A          CGCGCCGAGGATCATATCAAGGGCCAGAY
19398 T     C        A          CCTTTCTGGCCCTTGATATGAGCCAGGGTCCTCCTGAGCTCCTGCCCA
19398 T     A        A          CCTTTCTGGCCCTTGATATGATCCAGGGTCCTCCTGAGCTCCTGCCCA
                                CCTGGGACACAGAGACTGAAGACTTGACAGAGAATGGGCAGGAGCTCAGGAGGACCCTGG[CA]TCATATCAAGGGCCAGAAAGGAGGTGAGAGTGGGCA
19398 IS    [CA]                GTGGGCAAGAGTAATGGGAGAGGC
19400 I              A          GTAACAGGGGAGGGTCCTGAGTGCACACT
19400 P     A        A          CGCGCCGAGGAGCCATCTCTGTCCACY
19400 P     G        A          ATGACGTGGCAGACGGCCATCTCTGTCCAY
19400 T     A        A          CAAAGTGGACAGAGATGGCTGTGTGCACTCAGGACCCTCCCCTGTTACAA
19400 T     G        A          CAAAGTGGACAGAGATGGCCGTGTGCACTCAGGACCCTCCCCTGTTACAA
                                GCCTGCCTGTGCAGCCCCTTTGAGGTCCCCTTGTAACAGGGGAGGGTCCTGAGTGCACAC[AG]GCCATCTCTGTCCACTTTGCAGCTCCCCATGGGCCTC
19400 IS    [AG]                CTCCAGGAGCTGTCTTGGGGGTA
19478 I              A          CGCAGACAGGACCCCGGGGCT
19478 P     G        A          ATGACGTGGCAGACGCGGCTGTACCTGGY
19478 P     C        A          CGCGCCGAGGCCGGCTGTACCTGGY
19478 T     G        A          CCTGCCAGGTACAGCCGCGCCCCGGGGTCCTGTCTGCGTA
19478 T     C        A          CCTGCCAGGTACAGCCGGGCCCCGGGGTCCTGTCTGCGTA
                                TGTCACCGCGGGGGTGACCAGGACACTGCCCCCACTTGTACGCAGACAGGACCCCGGGGC[GC]CGGCTGTACCTGGCAGGAAGGGCTGTTTCATGGTCT
19478 IS    [GC]                CCATCAGGCTCTTGAGGTCGTGCT
19481 I              S          CAGGCCCTCCCCTCGCCCCT
19481 P     C        S          ATGACGTGGCAGACGGGCCGCTGTCCY
19481 P     T        S          CGCGCCGAGGAGGCCGCTGTCCY
19481 T     C        S          ATGCGGACAGCGGCCCGGGGCGAGGGGAGGGCCTGAC
19481 T     T        S          ATGCGGACAGCGGCCTGGGGCGAGGGGAGGGCCTGAC
                                CGGGGGCCAGGCTTCGCTCAGCCCCTGTGGTAACTCCGACTGCCAATGCGGACAGCGGCC[CT]GGGGCGAGGGGAGGGCCTGACCTGCAGGGCCGGCA
19481 IS    [CT]                GGTACTTGGGCAGCTCCTGCTTGAG
19486 I              S          GCGCGGCCTCCAGCTGCCT
19486 P     C        S          ATGACGTGGCAGACGCAATTTCCATGCCAGY
19486 P     T        S          CGCGCCGAGGACAATTTCCATGCCAGGY
19486 T     C        S          ATATCCTGGCATGGAAATTGCGGCAGCTGGAGGCCGCGCTC
19486 T     T        S          ATATCCTGGCATGGAAATTGTGGCAGCTGGAGGCCGCGCTC
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FIGURE 129E


TCTGACTCCTCTGAATTTCAACCGACTGATTTGCGGAAAAATATCCTGGCATGGAAATTG[CT]GGCAGCTGGAGGCCGCGCTCCAGGGACCCACCGCGGG
19486 IS [CT] GTGTCAGCAGGACAGAAGCACTC
FLJ13052
19504 I S AGTCAAAGAGTAGCCAGTCTTATTTTGGTTGGCAAAATTGATCCA
19504 P A S CGCGCCGAGGTTTGAAAGGGATCAGGCY
19504 P G S ATGACGTGGCAGACCTTGAAAGGGATCAGGCY
19504 T A S CACTGCCTGATCCCTTTCAAAGGATCAATTTTGCCAACCAAAATAAGACTGGCTACTCTTTGACTGC
19504 T G S CACTGCCTGATCCCTTTCAAGGGATCAATTTTGCCAACCAAAATAAGACTGGCTACTCTTTGACTGC
ACCACCTTGGAGGGGATGTTTATGTCATTTCCTCCGGAGGCACTGCCTGATCCCTTTCAA[AG]GGATCAATTTTGCCAACCAAAATAAGACTGGCTACTCTTT
19504 IS [AG] GACTGCCTGGCTTGTATTCA
19544 I A TGCGTTTCAACGACGCCTTTGTCTACCCCC
19544 P G A ATGACGTGGCAGACGGGGCCGTGCGY
19544 P T A CGCGCCGAGGTGGGCCGTGCGY
19544 T G A CCCTCGCACGGCCCCGGGGTAGACAAAGGCGTCGTTGAAACGCAGC
19544 T T A CCCTCGCACGGCCCAGGGGTAGACAAAGGCGTCGTTGAAACGCAGC
TCCCAGCTAGGGGTGGGGACCCCCCCTTGGCTGCGTTTCAACGACGCCTTTGTCTACCCC[GT]GGGCCGTGCGAGGGAGAGGACTGACGGATCTGGTTT
19544 IS [GT] CAACCGCCTTGACTTTCCCGGGGG
19601 I A GGTGGAGTATGAAAGGCCCACTCTAAACTGAGTTGTTAGC
19601 P G A ATGACGTGGCAGACGAATGGCCTGGTTTTCTAY
19601 P T A CGCGCCGAGGTAATGGCCTGGTTTTCTAGY
19601 T G A GACACTAGAAAACCAGGCCATTCCTAACAACTCAGTTTAGAGTGGGCCTTTCATACTCCACCCA
19601 T T A GACACTAGAAAACCAGGCCATTACTAACAACTCAGTTTAGAGTGGGCCTTTCATACTCCACCCA
CCACTTATCTGCTGTTTTGTGGGTGGAGTATGAAAGGCCCACTCTAAACTGAGTTGTTAG[GT]AATGGCCTGGTTTTCTAGTGTCAGCACGGAGACTTGACT
19601 IS [GT] TTGACCAATGATGGAAGGGAG
19672 I A CAGCTGGGCAGGGGTTGTTCCTGGC
19672 P A A CGCGCCGAGGAATCTAGCAGGTGGCGY
19672 P T A ATGACGTGGCAGACTATCTAGCAGGTGGCGY
19672 T A A TGGCCGCCACCTGCTAGATTCCAGGAACAACCCCTGCCCAGCTGTG
19672 T T A TGGCCGCCACCTGCTAGATACCAGGAACAACCCCTGCCCAGCTGTG
ATTTTTGGCAGTGGCTGGAGACATTTTTGGTTGCCACAGCTGGGCAGGGGTTGTTCCTGG[AT]ATCTAGCAGGTGGCGGCCAGCGATGCTAATGAGCATGC
19672 IS [AT] TGCAATGCACAGGACAGTCCCG
19687 I S TCCTGTGCTATCTTTCTTAACAACTTTGGCATCTCTCCAGAA
19687 P G S ATGACGTGGCAGACCCTTTCCATGGAAAGTCTTY
19687 P A S CGCGCCGAGGTCTTTCCATGGAAAGTCTTCY
19687 T G S TGAAGAAGACTTTCCATGGAAAGGTCTGGAGAGATGCCAAAGTTGTTAAGAAAGATAGCACAGGATT
19687 T A S TGAAGAAGACTTTCCATGGAAAGATCTGGAGAGATGCCAAAGTTGTTAAGAAAGATAGCACAGGATT
TGATTGAGAAGAGTACCAACTTCAGGATGTGAAGAATTGAAGAAGACTTTCCATGGAAAG[GA]TCTGGAGAGATGCCAAAGTTGTTAAGAAAGATAGCACAG
19687 IS [GA] GATTGGTATGAGGCAAAAACC
19697 I S CGCGGGCTGCTCTGCGCAT
19697 P C S ATGACGTGGCAGACGGGCCCCCACTGY
19697 P T S CGCGCCGAGGAGGCCCCCACTGY
19697 T C S CAGGCAGTGGGGGCCCTGCGCAGAGCAGCCCGCGGG
19697 T T S CAGGCAGTGGGGGCCTTGCGCAGAGCAGCCCGCGGG
GGCGGGGCCGGGGGCGGAGATCGGGGCCGGAGTGGGAACCGCGGACAGGCAGTGGGGGCC[CT]TGCGCAGAGCAGCCCGCGGGGTTCGCGCCGCTC
19697 IS [CT] TCGTCCCCCTGGAGCCCCGGGCCCGCC
19879 I S GTGCACTGTAGGATGTTTAGAACATCCCTATCCTCTATCCACA
19879 P A S CGCGCCGAGGTGAGTGCCAGGAGCY
19879 P G S ATGACGTGGCAGACCGAGTGCCAGGAGCY
19879 T A S GGGTGCTCCTGGCACTCAGTGGATAGAGGATAGGGATGTTCTAAACATCCTACAGTGCACAG
19879 T G S GGGTGCTCCTGGCACTCGGTGGATAGAGGATAGGGATGTTCTAAACATCCTACAGTGCACAG
GGCAATGTCTACAGACATTTTGGGTCATCACAGTTGAAGGAAGGGGTGCTCCTGGCACTC[AG]GTGGATAGAGGATAGGGATGTTCTAAACATCCTACAGT
19879 IS [AG] GCACAGGACAGTCCCCACTGTA
19916 I S GCCTTAGGGGGAAAACATCCAACTTACGTTTTTAAAGTCGTGA
19916 P G S ATGACGTGGCAGACCACTTCCAATGTTTCATCAGY
19916 P A S CGCGCCGAGGTACTTCCAATGTTTCATCAGTY
19916 T G S TGGCACTGATGAAACATTGGAAGTACACGACTTTAAAAACGTAAGTTGGATGTTTTCCCCCTAAGGCTT
19916 T A S TGGCACTGATGAAACATTGGAAGTACACGACTTTAAAAACGTAAGTTGGATGTTTTCCCCCTAAGGCTT
TCCTGTGACCAGAACTGAAATATTCAGAAGCGGAAATGGCACTGATGAAACATTGGAAGT[GA]CACGACTTTAAAAACGTAAGTTGGATGTTTTCCCCCTAAG
19916 IS [GA] GCTTTCCACTTAAAATATTA
19954 I A ACTGTAATCCTTTCAGCTTCTCTAATTGGAACTGCCT
19954 P A A CGCGCCGAGGACTATGGCTCTTGTTGAGTY
19954 P G A ATGACGTGGCAGACGCTATGGCTCTTGTTGAGY
19954 T A A AGCTACTCAACAAGAGCCATAGTGGCAGTTCCAATTAGAGAAGCTGAAAGGATTACAGTAT
19954 T G A AGCTACTCAACAAGAGCCATAGCGGCAGTTCCAATTAGAGAAGCTGAAAGGATTACAGTAT
TGTTTTTGGAGAGTTTTGTATTATACTGTAATCCTTTCAGCTTCTCTAATTGGAACTGCC[AG]CTATGGCTCTTGTTGAGTAGCTCTCATCCAAAGAGGAAATA
19954 IS [AG] AAGGTAAAAAAATGTTGGT
19971 I A TGGGACCTTCCAAAATTACCCCCAAGCCACT
19971 P A A CGCGCCGAGGAGAAATCCTGTCCCCTCY
19971 P G A ATGACGTGGCAGACGGAAATCCTGTCCCCTY
19971 T A A CTCAGAGGGGACAGGATTTCTGTGGCTTGGGGGTAATTTTGGAAGGTCCCATG
19971 T G A CTCAGAGGGGACAGGATTTCCGTGGCTTGGGGGTAATTTTGGAAGGTCCCATG
AGTCACCGTTTGTTTTCTTAGCTACCTCCATGGGACCTTCCAAAATTACCCCCAAGCCAC[AG]GAAATCCTGTCCCCTCTGAGCACCTGGCACCCCCAATCA
19971 IS [AG] CTCTCTAGGAAGCAGCACTTC
19989 I A CTCAGGTCCTCGTCTGATAAACATGACGCTACATTTTTCCA
19989 P T A CGCGCCGAGGTCCTAATGTTATTTTGAAGTTTCGY
19989 P C A ATGACGTGGCAGACCCCTAATGTTATTTTGAAGTTTCGY
19989 T T A ACGTCGAAACTTCAAAATAACATTAGGAGGAAAAATGTAGCGTCATGTTTATCAGACGAGGACCTGAGCT
19989 T C A ACGTCGAAACTTCAAAATAACATTAGGGGGAAAAATGTAGCGTCATGTTTATCAGACGAGGACCTGAGCT
TCTCTCAATCGCTTGTTAAGCTCAGGTCCTCGTCTGATAAACATGACGCTACATTTTTCC[TC]CCTAATGTTATTTTGAAGTTTCGACGTAGATTAAATATGGC
19989 IS [TC] GACTGAAAACAAAGCAAGA
20002 I A TCTTCCTTGGACTTTTGGTGGAAGTCTTTTTGCCTCTTCT
20002 P G A ATGACGTGGCAGACGCACCCCCCTTCCY
20002 P A A CGCGCCGAGGACACCCCCCTTCCY
20002 T G A CAAGGGAAGGGGGGTGCGAAGAGGCAAAAAGACTTCCACCAAAAGTCCAAGGAAGATA
20002 T A A CAAGGGAAGGGGGGTGTGAAGAGGCAAAAAGACTTCCACCAAAAGTCCAAGGAAGATA
CAAAACGGTGAGCAGACACTATCTTCCTTGGACTTTTGGTGGAAGTCTTTTTGCCTCTTC[GA]CACCCCCCTTCCCTTGCCAGGCCTGACGTTCATTTTTGA
20002 IS [GA] CCTTCTAGGTAATCAACTTCA
20062 I A AGCCAAAATTTGGTATTTGGAATTATATTTATAAACCAACACACACAGA
20062 P T A CGCGCCGAGGTTCGGGCATGTTTCATTY
20062 P C A ATGACGTGGCAGACCTCGGGCATGTTTCATTY
20062 T T A GCTAAATGAAACATGCCCGAACTGTGTGTGTTGGTTTATAAATATAATTCCAAATACCAAATTTTGGCTGA
20062 T C A GCTAAATGAAACATGCCCGAGCTGTGTGTGTTGGTTTATAAATATAATTCCAAATACCAAATTTTGGCTGA
GAAACTATTATCAGCCAAAATTTGGTATTTGGAATTATATTTATAAACCAACACACACAG[TC]TCGGGCATGTTTCATTTAGCTCCCTAAGTATGAACAGGATT
20062 IS [TC] GCCCGGGTCAGATATGGAA
20091 I A GGCAATGGCACTTGAGGAGATAAAATATGTCCAA
20091 P T A CGCGCCGAGGTTGAAAGAGGCATATGCCY
20091 P C A ATGACGTGGCAGACCTGAAAGAGGCATATGCCY
20091 T T A GGGAGGCATATGCCTCTTTCAATGGACATATTTTATCTCCTCAAGTGCCATTGCCTT
20091 T C A GGGAGGCATATGCCTCTTTCAGTGGACATATTTTATCTCCTCAAGTGCCATTGCCTT

				GAGCTAAAGACAGCATAAGTAATTTAAGGCAATGGCACTTGAGGAGATAAAATATGTCCA[TC]TGAAAGAGGCATATGCCTCCCCTTTTACCTTTCCTGGCAT
20091	IS	[TC]		GGGCTCTGACACCTGGCTTC
20184	I		S	AAGTATCTCAGACCTGATAGAATATTGTAAGCTCTTTATAGCTAATATTACAACAA
20184	P	A	S	CGCGCCGAGGTCTACTGCACTTGTCTCAY
20184	P	G	S	ATGACGTGGCAGACCCTACTGCACTTGTCTCAY
20184	T	A	S	TTAATGAGACAAGTGCAGTAGATGTTGTAATATTAGCTATAAAGAGCTTACAATATTCTATCAGGTCTGAGATACTTTT
20184	T	G	S	TTAATGAGACAAGTGCAGTAGGTGTTGTAATATTAGCTATAAAGAGCTTACAATATTCTATCAGGTCTGAGATACTTTT
				AATTATGACAATTTCATTGAAGATTGAAAATTAACGAATTTAATGAGACAAGTGCAGTAG[AG]TGTTGTAATATTAGCTATAAAGAGCTTACAATATTCTATCAG
20184	IS	[AG]		GTCTGAGATACTTTTTAC
20198	I		A	CAAAGCACAGTCCTTGGGCTGGTAGCGT
20198	P	A	A	CGCGCCGAGGATGGCCCTAACTTCTTTGY
20198	P	C	A	ATGACGTGGCAGACCTGGCCCTAACTTCTTTGY
20198	T	A	A	ACAGCAAAGAAGTTAGGGCCATCGCTACCAGCCCAAGGACTGTGCTTTGGG
20198	T	C	A	ACAGCAAAGAAGTTAGGGCCAGCGCTACCAGCCCAAGGACTGTGCTTTGGG
				GCCTTAGATCCTGGGCCTCTGGGCAGTGAGGCCCAAAGCACAGTCCTTGGGCTGGTAGCG[AC]TGGCCCTAACTTCTTTGCTGTTGGTAAACTCATGTTCA
20198	IS	[AC]		GGAATTGAGTCAGTCTTTAGAA
20239	I		A	CCCCTTTTATCCTACCTCCCTGCCTTGGTCCA
20239	P	C	A	ATGACGTGGCAGACCGCCAACACATGCGY
20239	P	T	A	CGCGCCGAGGTGCCAACACATGCGY
20239	T	C	A	TACTCGCATGTGTTGGCGGGACCAAGGCAGGGAGGTAGGATAAAAGGGGGA
20239	T	T	A	TACTCGCATGTGTTGGCAGGACCAAGGCAGGGAGGTAGGATAAAAGGGGGA
				ACCATTCCCTGGCTACTCTCTCCTTCCTCCCCCTTTTATCCTACCTCCCTGCCTTGGTCC[CT]GCCAACACATGCGAGTACACACACACCCCTCTCTCTGCTT
20239	IS	[CT]		TTGTCAGGCAGTGGTAGGAC
20251	I		A	CAGTTACACTCATTCCAGGAGTTAAAATTTGAGAATTTAAATCCATTTTT
20251	P	A	A	CGCGCCGAGGAGCCTTATTAAGAATAAAATGCACCY
20251	P	C	A	ATGACGTGGCAGACCCCTTATTAAGAATAAAATGCACCY
20251	T	A	A	ACCTGGTGCATTTTATTCTTAATAAGGTAAAATGGATTTAAATTCTCAAATTTTAACTCCTGGAATGAGTGTAACTGCT
20251	T	C	A	ACCTGGTGCATTTTATTCTTAATAAGGGAAAATGGATTTAAATTCTCAAATTTTAACTCCTGGAATGAGTGTAACTGCT
				CATAAATGTAGCAGTTACACTCATTCCAGGAGTTAAAATTTGAGAATTTAAATCCATTTT[AC]CCTTATTAAGAATAAAATGCACCAGGTGGTCTCTTAATAAAG
20251	IS	[AC]		TAAAACTAATTTTAATTC
20252	I		S	AAAAAGTCTCACAGATTAATTAATTGCTGTAGAAGTGATCACATTTTTATTCATAGC
20252	P	A	S	CGCGCCGAGGTCTTTTTGCTTTATCAAGACAAAY
20252	P	C	S	ATGACGTGGCAGACGCTTTTTGCTTTATCAAGACAY
20252	T	A	S	TTTGTTTGTCTTGATAAAGCAAAAAGACTATGAATAAAAATGTGATCACTTCTACAGCAATTAATTAATCTGTGAGACTTTTTTT
20252	T	C	S	TTTGTTTGTCTTGATAAAGCAAAAAGCCTATGAATAAAAATGTGATCACTTCTACAGCAATTAATTAATCTGTGAGACTTTTTTT
				GTCTCTTAATAAAGTAAAACTAATTTTAATTCATTTTGTTTGTCTTGATAAAGCAAAAAG[AC]CTATGAATAAAAATGTGATCACTTCTACAGCAATTAATTAATC
20252	IS	[AC]		TGTGAGACTTTTTTTGC
20296	I		A	GTTCAGGGACCAGAATGCTCTTAGAAGGAGATGGGC
20296	P	G	A	ATGACGTGGCAGACGTCAGAAGGTTGTCAGTCY
20296	P	T	A	CGCGCCGAGGTTCAGAAGGTTGTCAGTCAY
20296	T	G	A	TCACTGACTGACAACCTTCTGACCCCATCTCCTTCTAAGAGCATTCTGGTCCCTGAACAG
20296	T	T	A	TCACTGACTGACAACCTTCTGAACCCATCTCCTTCTAAGAGCATTCTGGTCCCTGAACAG
				CTAGGTTTCCTCTCCAAAACTCACTGTTCAGGGACCAGAATGCTCTTAGAAGGAGATGGG[GT]TCAGAAGGTTGTCAGTCAGTGACAGGGTGAGCATCACA
20296	IS	[GT]		GGAATTGCTGTCCTCCCGTGGT
20384	I		A	CGCTCACTGGTCCCTTGCAGCCAT
20384	P	C	A	ATGACGTGGCAGACCCCCTCTGTCCCAGY
20384	P	A	A	CGCGCCGAGGACCCTCTGTCCCAGAY
20384	T	C	A	CGGGTCTGGGACAGAGGGGTGGCTGCAAGGGACCAGTGAGCGCC
20384	T	A	A	CGGGTCTGGGACAGAGGGTTGGCTGCAAGGGACCAGTGAGCGCC
				GCCAGGCCGTGGACAGGTGTGCACCCACGCCACCTGGCGCTCACTGGTCCCTTGCAGCCA[CA]CCCTCTGTCCCAGACCCGGCCCGAGGGCTGGGGCGC
20384	IS	[CA]		GTCTGGTGTGAGGCCCCTGCTCCT
20392	I		S	ACCTTGCTCCTTCCTCCACCTGGGGT
20392	P	C	S	ATGACGTGGCAGACGGCTCCAGCACCTY
20392	P	T	S	CGCGCCGAGGAGCTCCAGCACCTGY
20392	T	C	S	GGCACAGGTGCTGGAGCCCCCCAGGTGGAGGAAGGAGCAAGGTGG
20392	T	T	S	GGCACAGGTGCTGGAGCTCCCCAGGTGGAGGAAGGAGCAAGGTGG
				CCAGCCTCAGTGAAGAGTGGCACTGGGGCCTGTCACAGGTGGGGGCACAGGTGCTGGAGC[CT]CCCCAGGTGGAGGAAGGAGCAAGGTGGCAGCCCCT
20392	IS	[CT]		CGGGTGGGCACACCCTGCAGTGCCT
20434	I		A	GTATGGAGATTTGCTCATTGAACTGAGCTTGGTCATTCTCTTT
20434	P	A	A	CGCGCCGAGGAGTTAACTCCTGTCCAAAGY
20434	P	G	A	ATGACGTGGCAGACGGTTAACTCCTGTCCAAAGY
20434	T	A	A	ATCACTTTGGACAGGAGTTAACTAAGAGAATGACCAAGCTCAGTTCAATGAGCAAATCTCCATACCG
20434	T	G	A	ATCACTTTGGACAGGAGTTAACCAAGAGAATGACCAAGCTCAGTTCAATGAGCAAATCTCCATACCG
				AAAAGAAAGAAAGAAACGGTATGGAGATTTGCTCATTGAACTGAGCTTGGTCATTCTCTT[AG]GTTAACTCCTGTCCAAAGTGATGATGGAATCTTTATTGTA
20434	IS	[AG]		CTTTTTCATAGATCCGAGTA
20477	I		A	GGTGAGCCTTCCTGCCCGTCCCT
20477	P	G	A	ATGACGTGGCAGACGTCAGCTCGAGGCCY
20477	P	A	A	CGCGCCGAGGATCAGCTCGAGGCCY
20477	T	G	A	TGTGGGCCTCGAGCTGACGGGACGGGCAGGAAGGCTCACCTA
20477	T	A	A	TGTGGGCCTCGAGCTGATGGGACGGGCAGGAAGGCTCACCTA
				AGGGCTCCCCTGTTGGCTCTGACTTGCTGTCCTCGGTAGGTGAGCCTTCCTGCCCGTCCC[GA]TCAGCTCGAGGCCCACAGCCCCTCACCCCTCTTCCCA
20477	IS	[GA]		AGAGCACCCTGACACAGTCACAC
20480	I		A	ACGAGGAGTGGCCCTGCCCCTC
20480	P	G	A	ATGACGTGGCAGACGAGGGCGCATCGTY
20480	P	T	A	CGCGCCGAGGTAGGGCGCATCGTGY
20480	T	G	A	CCTGCACGATGCGCCCTCAGGGGCAGGGCCACTCCTCGTCT
20480	T	T	A	CCTGCACGATGCGCCCTAAGGGGCAGGGCCACTCCTCGTCT
				ACCAGGGCCACCCCGGTGACCTGCAGGAGAGGAAGGCAGACGAGGAGTGGCCCTGCCCCT[GT]AGGGCGCATCGTGCAGGTGGCACAAGGGGGTCATC
20480	IS	[GT]		TGCATCCTGGTCAAGGGGGAGCCCA
20537	I		S	CCAGGTGCTGCGTCACACTCAGGGT
20537	P	G	S	ATGACGTGGCAGACCTCAGACAAGGCCTTCTY
20537	P	T	S	CGCGCCGAGGATCAGACAAGGCCTTCTY
20537	T	G	S	GCCCAGAAGGCCTTGTCTGAGCCCTGAGTGTGACGCAGCACCTGGCC
20537	T	T	S	GCCCAGAAGGCCTTGTCTGATCCCTGAGTGTGACGCAGCACCTGGCC
				AATTTCCAGGACACCCACATGGGCTCCAGGTGAAGCAGGGGCCCAGAAGGCCTTGTCTGA[GT]CCCTGAGTGTGACGCAGCACCTGGCCACTAGGGGGAG
20537	IS	[GT]		GCAAACTCTGTGAATCCTAAGGG
20540	I		A	GTCACATAATCGACGTGGACTTCAGCCATCTCCAT
20540	P	G	A	ATGACGTGGCAGACGTCACCTCCATGTGCY
20540	P	A	A	CGCGCCGAGGATCACCTCCATGTGCAY
20540	T	G	A	TCTGTGCACATGGAGGTGACTGGAGATGGCTGAAGTCCACGTCGATTATGTGACAC
20540	T	A	A	TCTGTGCACATGGAGGTGATTGGAGATGGCTGAAGTCCACGTCGATTATGTGACAC
				ACAAGGCCTTCACCCTGACTCACAGTGTCACATAATCGACGTGGACTTCAGCCATCTCCA[GA]TCACCTCCATGTGCACAGAGCTCTCATGGTACATGTGCT
20540	IS	[GA]		TGGCTGCCCTAGAAAGAGAGA
20554	I		S	CACAGGTGGGGCTGGAGAAGCCACT
20554	P	T	S	CGCGCCGAGGAAGCCTGCTAGCCATY
20554	P	C	S	ATGACGTGGCAGACGAGCCTGCTAGCCATY
20554	T	T	S	GGACATGGCTAGCAGGCTTGTGGCTTCTCCAGCCCCACCTGTGCC
20554	T	C	S	GGACATGGCTAGCAGGCTCGTGGCTTCTCCAGCCCCACCTGTGCC

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FIGURE 129E

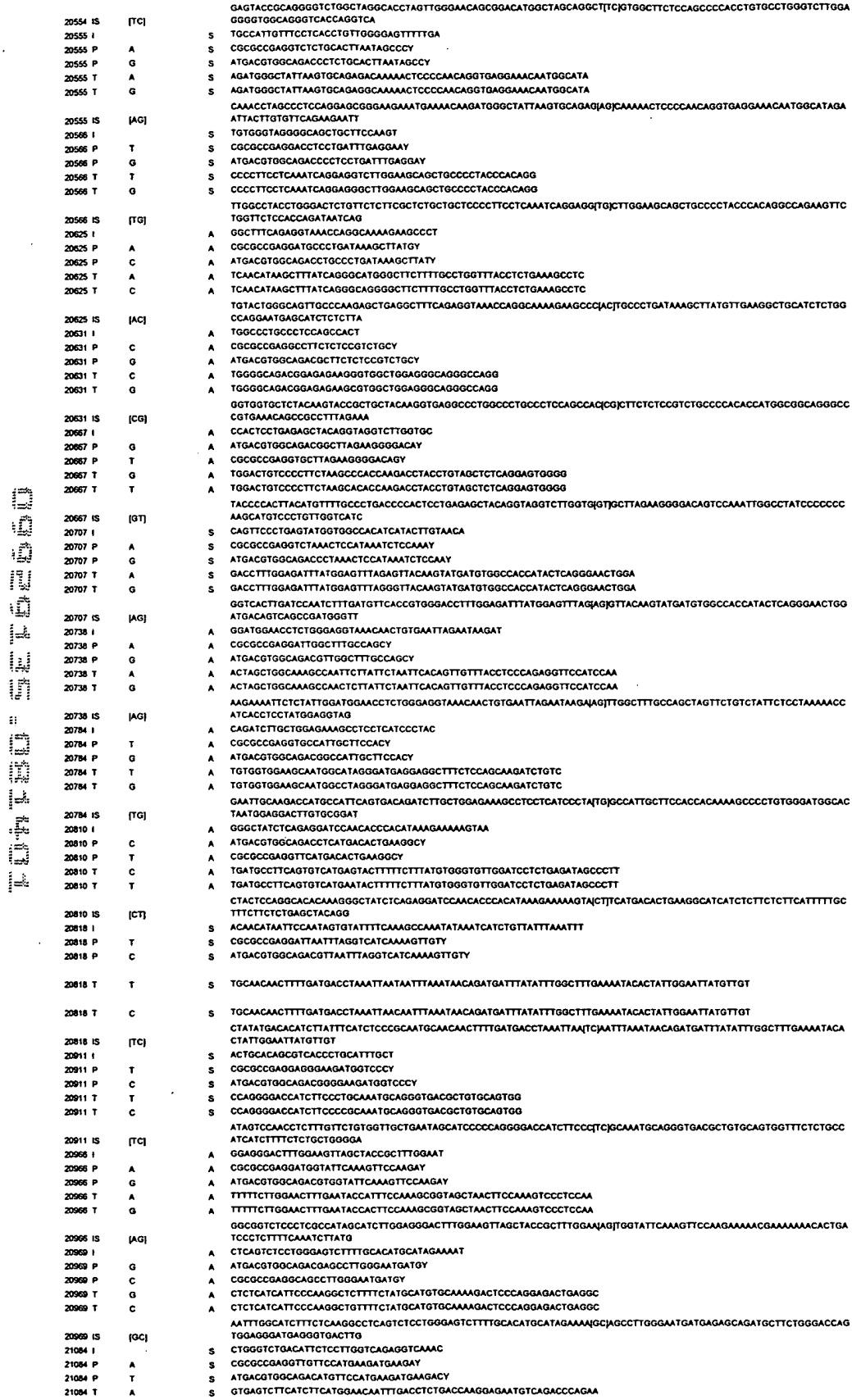

GAGTACCGCAGGGGTCTGGCTAGGCACCTAGTTGGGAACAGCGGACATGGCTAGCAGGCT[TC]GTGGCTTCTCCAGCCCCACCTGTGCCTGGGTCTTGGA
20554 IS [TC] GGGGTGGCAGGGTCACCAGGTCA
20555 I S TGCCATTGTTTCCTCACCTGTTGGGGAGTTTTTGA
20555 P A S CGCGCCGAGGTCTCTGCACTTAATAGCCCY
20555 P G S ATGACGTGGCAGACCCTCTGCACTTAATAGCCY
20555 T A S AGATGGGCTATTAAGTGCAGAGACAAAAACTCCCCAACAGGTGAGGAAACAATGGCATA
20555 T G S AGATGGGCTATTAAGTGCAGAGGCAAAAACTCCCCAACAGGTGAGGAAACAATGGCATA
CAAACCTAGCCCTCCAGGAGCGGGAAGAAATGAAAACAAGATGGGCTATTAAGTGCAGAG[AG]CAAAAACTCCCCAACAGGTGAGGAAACAATGGCATAGA
20555 IS [AG] ATTACTTGTGTTCAGAAGAATT
20566 I S TGTGGGTAGGGGCAGCTGCTTCCAAGT
20566 P T S CGCGCCGAGGACCTCCTGATTTGAGGAAY
20566 P G S ATGACGTGGCAGACCCCTCCTGATTTGAGGAY
20566 T T S CCCCTTCCTCAAATCAGGAGGTCTTGGAAGCAGCTGCCCCTACCCACAGG
20566 T G S CCCCTTCCTCAAATCAGGAGGGCTTGGAAGCAGCTGCCCCTACCCACAGG
TTGGCCTACCTGGGACTCTGTTCTCTTCGCTCTGCTGCTCCCCTTCCTCAAATCAGGAGG[TG]CTTGGAAGCAGCTGCCCCTACCCACAGGCCAGAAGTTC
20566 IS [TG] TGGTTCTCCACCAGATAATCAG
20625 I A GGCTTTCAGAGGTAAACCAGGCAAAAGAAGCCCT
20625 P A A CGCGCCGAGGATGCCCTGATAAAGCTTATGY
20625 P C A ATGACGTGGCAGACCTGCCCTGATAAAGCTTATY
20625 T A A TCAACATAAGCTTTATCAGGGCATGGGCTTCTTTTGCCTGGTTTACCTCTGAAAGCCTC
20625 T C A TCAACATAAGCTTTATCAGGGCAGGGGCTTCTTTTGCCTGGTTTACCTCTGAAAGCCTC
TGTACTGGGCAGTTGCCCAAGAGCTGAGGCTTTCAGAGGTAAACCAGGCAAAAGAAGCCC[AC]TGCCCTGATAAAGCTTATGTTGAAGGCTGCATCTCTGG
20625 IS [AC] CCAGGAATGAGCATCTCTCTTA
20631 I A TGGCCCTGCCCTCCAGCCACT
20631 P C A CGCGCCGAGGCCTTCTCTCCGTCTGCY
20631 P G A ATGACGTGGCAGACGCTTCTCTCCGTCTGCY
20631 T C A TGGGGCAGACGGAGAGAAGGGTGGCTGGAGGGCAGGGCCAGG
20631 T G A TGGGGCAGACGGAGAGAAGCGTGGCTGGAGGGCAGGGCCAGG
GGTGGTGCTCTACAAGTACCGCTGCTACAAGGTGAGGCCCTGGCCCTGCCCTCCAGCCAC[CG]CTTCTCTCCGTCTGCCCCACACCATGGCGGCAGGGCC
20631 IS [CG] CGTGAAACAGCCGCCTTTAGAAA
20667 I A CCACTCCTGAGAGCTACAGGTAGGTCTTGGTGC
20667 P G A ATGACGTGGCAGACGGCTTAGAAGGGGACAY
20667 P T A CGCGCCGAGGTGCTTAGAAGGGGACAGY
20667 T G A TGGACTGTCCCCTTCTAAGCCACCAAGACCTACCTGTAGCTCTCAGGAGTGGGG
20667 T T A TGGACTGTCCCCTTCTAAGCACACCAAGACCTACCTGTAGCTCTCAGGAGTGGGG
TACCCCACTTACATGTTTTGCCCTGACCCCACTCCTGAGAGCTACAGGTAGGTCTTGGTG[GT]GCTTAGAAGGGGACAGTCCAAATTGGCCTATCCCCCCC
20667 IS [GT] AAGCATGTCCCTGTTGGTCATC
20707 I S CAGTTCCCTGAGTATGGTGGCCACATCATACTTGTAACA
20707 P A S CGCGCCGAGGTCTAAACTCCATAAATCTCCAAAY
20707 P G S ATGACGTGGCAGACCCTAAACTCCATAAATCTCCAAY
20707 T A S GACCTTTGGAGATTTATGGAGTTTAGAGTTACAAGTATGATGTGGCCACCATACTCAGGGAACTGGA
20707 T G S GACCTTTGGAGATTTATGGAGTTTAGGGTTACAAGTATGATGTGGCCACCATACTCAGGGAACTGGA
GGTCACTTGATCCAATCTTTGATGTTCACCGTGGGACCTTTGGAGATTTATGGAGTTTAG[AG]GTTACAAGTATGATGTGGCCACCATACTCAGGGAACTGG
20707 IS [AG] ATGACAGTCAGCCGATGGGTT
20738 I A GGATGGAACCTCTGGGAGGTAAACAACTGTGAATTAGAATAAGAT
20738 P A A CGCGCCGAGGATTGGCTTTGCCAGCY
20738 P G A ATGACGTGGCAGACGTTGGCTTTGCCAGCY
20738 T A A ACTAGCTGGCAAAGCCAATTCTTATTCTAATTCACAGTTGTTTACCTCCCAGAGGTTCCATCCAA
20738 T G A ACTAGCTGGCAAAGCCAACTCTTATTCTAATTCACAGTTGTTTACCTCCCAGAGGTTCCATCCAA
AAGAAAATTCTCTATTGGATGGAACCTCTGGGAGGTAAACAACTGTGAATTAGAATAAGA[AG]TTGGCTTTGCCAGCTAGTTCTGTCTATTCTCCTAAAAACC
20738 IS [AG] ATCACCTCCTATGGAGGTAG
20784 I A CAGATCTTGCTGGAGAAAGCCTCCTCATCCCTAC
20784 P T A CGCGCCGAGGTGCCATTGCTTCCACY
20784 P G A ATGACGTGGCAGACGGCCATTGCTTCCACY
20784 T T A TGTGGTGGAAGCAATGGCCTAGGGATGAGGAGGCTTTCTCCAGCAAGATCTGTC
20784 T G A TGTGGTGGAAGCAATGGCCTAGGGATGAGGAGGCTTTCTCCAGCAAGATCTGTC
GAATTGCAAGACCATGCCATTCAGTGACAGATCTTGCTGGAGAAAGCCTCCTCATCCCTA[TG]GCCATTGCTTCCACCACAAAAGCCCCTGTGGGATGGCAC
20784 IS [TG] TAATGGAGGACTTGTGCGGAT
20810 I A GGGCTATCTCAGAGGATCCAACACCCACATAAAGAAAAAGTAA
20810 P C A ATGACGTGGCAGACCTCATGACACTGAAGGCY
20810 P T A CGCGCCGAGGTTCATGACACTGAAGGCY
20810 T C A TGATGCCTTCAGTGTCATGAGTACTTTTTCTTTATGTGGGTGTTGGATCCTCTGAGATAGCCCTT
20810 T T A TGATGCCTTCAGTGTCATGAATACTTTTTCTTTATGTGGGTGTTGGATCCTCTGAGATAGCCCTT
CTACTCCAGGCACACAAAGGGCTATCTCAGAGGATCCAACACCCACATAAAGAAAAAGTA[CT]TCATGACACTGAAGGCATCATCTCTTCTCTTCATTTTTGC
20810 IS [CT] TTTCTTCTCTGAGCTACAGG
20818 I S ACAACATAATTCCAATAGTGTATTTTCAAAGCCAAATATAAATCATCTGTTATTTAAATTT
20818 P T S CGCGCCGAGGATTAATTTAGGTCATCAAAAGTTGTY
20818 P C S ATGACGTGGCAGACGTTAATTTAGGTCATCAAAAGTTGTY
20818 T T S TGCAACAACTTTTGATGACCTAAATTAATAATTTAAATAACAGATGATTTATATTTGGCTTTGAAAATACACTATTGGAATTATGTTGT
20818 T C S TGCAACAACTTTTGATGACCTAAATTAACAATTTAAATAACAGATGATTTATATTTGGCTTTGAAAATACACTATTGGAATTATGTTGT
CTATATGACACATCTTATTTCATCTCCCGCAATGCAACAACTTTTGATGACCTAAATTAA[TC]AATTTAAATAACAGATGATTTATATTTGGCTTTGAAAATACA
20818 IS [TC] CTATTGGAATTATGTTGT
20911 I S ACTGCACAGCGTCACCCTGCATTTGCT
20911 P T S CGCGCCGAGGAGGGAAGATGGTCCCY
20911 P C S ATGACGTGGCAGACGGGGAAGATGGTCCCY
20911 T T S CCAGGGGACCATCTTCCCTGCAAATGCAGGGTGACGCTGTGCAGTGG
20911 T C S CCAGGGGACCATCTTCCCCGCAAATGCAGGGTGACGCTGTGCAGTGG
ATAGTCCAACCTCTTTGTTCTGTGGTTGCTGAATAGCATCCCCCAGGGGACCATCTTCCC[TC]GCAAATGCAGGGTGACGCTGTGCAGTGGTTTCTCTGCC
20911 IS [TC] ATCATCTTTTCTCTGCTGGGGA
20966 I A GGAGGGACTTTGGAAGTTAGCTACCGCTTTGGAAT
20966 P A A CGCGCCGAGGATGGTATTCAAAGTTCCAAGAY
20966 P G A ATGACGTGGCAGACGTGGTATTCAAAGTTCCAAGAY
20966 T A A TTTTTCTTGGAACTTTGAATACCATTTCCAAAGCGGTAGCTAACTTCCAAAGTCCCTCCAA
20966 T G A TTTTTCTTGGAACTTTGAATACCACTTCCAAAGCGGTAGCTAACTTCCAAAGTCCCTCCAA
GGCGGTCTCCCTCGCCATAGCATCTTGGAGGGACTTTGGAAGTTAGCTACCGCTTTGGAA[AG]TGGTATTCAAAGTTCCAAGAAAAACGAAAAAAACACTGA
20966 IS [AG] TCCCTCTTTTCAAATCTTATG
20969 I A CTCAGTCTCCTGGGAGTCTTTTGCACATGCATAGAAAAT
20969 P G A ATGACGTGGCAGACGAGCCTTGGGAATGATGY
20969 P C A CGCGCCGAGGCAGCCTTGGGAATGATGY
20969 T G A CTCTCATCATTCCCAAGGCTCTTTTCTATGCATGTGCAAAAGACTCCCAGGAGACTGAGGC
20969 T C A CTCTCATCATTCCCAAGGCTGTTTTCTATGCATGTGCAAAAGACTCCCAGGAGACTGAGGC
AATTTGGCATCTTTCTCAAGGCCTCAGTCTCCTGGGAGTCTTTTGCACATGCATAGAAAA[GC]AGCCTTGGGAATGATGAGAGCAGATGCTTCTGGGACCAG
20969 IS [GC] TGGAGGGATGAGGGTGACTTG
21084 I S CTGGGTCTGACATTCTCCTTGGTCAGAGGTCAAAC
21084 P A S CGCGCCGAGGTTGTTCCATGAAGATGAAGAY
21084 P T S ATGACGTGGCAGACATGTTCCATGAAGATGAAGACY
21084 T A S GTGAGTCTTCATCTTCATGGAACAATTTGACCTCTGACCAAGGAGAATGTCAGACCCAGAA

FIGURE 129E

21084	T	T	S	GTGAGTCTTCATCTTCATGGAACATTTTGACCTCTGACCAAGGAGAATGTCAGACCCAGAA	
21084	IS	[AT]		CACGAGGAAGCTTCGTTTTAGCTGGTTATTAATTCAGTGAGTCTTCATCTTCATGGAACA[AT]TTTGACCTCTGACCAAGGAGAATGTCAGACCCAGAAAAAT ATTCTGAGTTGATGCTAAAT	
21284	I		S	AGCCACCCTCGGGGAACAGAAACGAC	
21284	P	A	S	CGCGCCGAGGTGTCCACAGTGGCAAY	
21284	P	C	S	ATGACGTGGCAGACGGTCCACAGTGGCAY	
21284	T	A	S	ATCGTTGCCACTGTGGACATCGTTTCTGTTCCCCGAGGGTGGCTGT	
21284	T	C	S	ATCGTTGCCACTGTGGACCTCGTTTCTGTTCCCCGAGGGTGGCTGT	
21284	IS	[AC]		TATGGGCTACATTGATTAGGCCTCAGTGCAGGAAGATGGAGGATCGTTGCCACTGTGGAC[AC]TCGTTTCTGTTCCCCGAGGGTGGCTGTCACTGATGACT GCCTTCCACTCAATCCAAAGGC	
21332	I		A	GCCTGAGACCCAGCAGCAAAGATCCCTTTTTTGT	
21332	P	G	A	ATGACGTGGCAGACGTTTCATGTCTCATGCCTY	
21332	P	A	A	CGCGCCGAGGATTTCATGTCTCATGCCTTY	
21332	T	G	A	AGGAAAGGCATGAGACATGAAACCAAAAAAGGGATCTTTGCTGCTGGGTCTCAGGCAA	
21332	T	A	A	AGGAAAGGCATGAGACATGAAATCAAAAAAGGGATCTTTGCTGCTGGGTCTCAGGCAA	
21332	IS	[GA]		TCCCAGGACAAACCTCTTCCTTGTGTTGCCTGAGACCCAGCAGCAAAGATCCCTTTTTTG[GA]TTTCATGTCTCATGCCTTTCCTGCTGATTTTTAATGCTGC CTCCGAACACACCAGCTCAG	
21382	I		A	CAACTCTGAGACTAACTGTAGGTGTTGGTAGAGAAAAGTGTATGGAAT	
21382	P	A	A	CGCGCCGAGGAGCATGAGCCACTGCY	
21382	P	G	A	ATGACGTGGCAGACGGCATGAGCCACTGY	
21382	T	A	A	CATAGCAGTGGCTCATGCTTTCCATACACTTTTCTCTACCAACACCTACAGTTAGTCTCAGAGTTGTT	
21382	T	G	A	CATAGCAGTGGCTCATGCCTTCCATACACTTTTCTCTACCAACACCTACAGTTAGTCTCAGAGTTGTT	
21382	IS	[AG]		TCATGATAAAGAACAACTCTGAGACTAACTGTAGGTGTTGGTAGAGAAAAGTGTATGGAA[AG]GCATGAGCCACTGCTATGGTGCTAATGAGCCTGAGCCCC TGAGGCACAGACTTGTACAGG	
21403	I		S	GCCATCAGGGGCCGGGCT	
21403	P	T	S	CGCGCCGAGGATGGTGGCTCACACCY	
21403	P	C	S	ATGACGTGGCAGACGTGGTGGCTCACACY	
21403	T	T	S	TACAGGTGTGAGCCACCATGCCCGGCCCCTGATGGCTA	
21403	T	C	S	TACAGGTGTGAGCCACCACGCCCGGCCCCTGATGGCTA	
21403	IS	[TC]		CTCAGGTGATTCACCTGCCTTGGCCTCCCAAAGTGCTGGGATTACAGGTGTGAGCCACCA[TC]GCCCGGCCCCTGATGGCTACTTATTACCAAGGCTATGA AACAATCAGTTTCATAGCCTTA	
21605	I		S	GTGTTGCCCAGGCTGCCCTTGAACTCT	
21605	P	G	S	CGCGCCGAGGCTGGGCTCAAGCAATCY	
21605	P	C	S	ATGACGTGGCAGACGTGGGCTCAAGCAATCY	
21605	T	G	S	GGTGGATTGCTTGAGCCCAGGAGTTCAAGGGCAGCCTGGGCAACACAG	
21605	T	C	S	GGTGGATTGCTTGAGCCCACGAGTTCAAGGGCAGCCTGGGCAACACAG	
21605	IS	[GC]		GCCTCATGCCTGTAATCCCAGCACTTTTGGAGGCCAAGGTGGGTGGATTGCTTGAGCCCA[GC]GAGTTCAAGGGCAGCCTGGGCAACACAGTGGAACCCC ATCTCCACAAAAAAGTACAAAAC	
21612	I		A	TGACCCAAGATCAGAAACCTTTTCTCTCCTCTGAGCAA	
21612	P	C	A	ATGACGTGGCAGACCCCTCCTCTGTCTCCY	
21612	P	T	A	CGCGCCGAGGTCCTCCTCTGTCTCCAY	
21612	T	C	A	GGAATGGAGACAGAGGAGGGTGCTCAGAGGAGAGAAAAGGTTTCTGATCTTGGGTCAGT	
21612	T	T	A	GGAATGGAGACAGAGGAGGATGCTCAGAGGAGAGAAAAGGTTTCTGATCTTGGGTCAGT	
21612	IS	[CT]		GCCCTGGTCCCCAGAGTGGGCACTGACCCAAGATCAGAAACCTTTTCTCTCCTCTGAGCA[CT]CCTCCTCTGTCTCCATTCCTTATCTTCTGCTTTCCCTCC CACAGGGCTTCCAGAGCGACC	
21616	I		A	GCAATCTCGGCTCACTGCAACCTCCGA	
21616	P	T	A	CGCGCCGAGGTCTCCCGGGTTCAAGY	
21616	P	C	A	ATGACGTGGCAGACCCTCCCGGGTTCAAY	
21616	T	T	A	ATCACTTGAACCCGGGAGACGGAGGTTGCAGTGAGCCGAGATTGCAC	
21616	T	C	A	ATCACTTGAACCCGGGAGGCGGAGGTTGCAGTGAGCCGAGATTGCAC	
21616	IS	[TC]		TCTTGCTCTGTCACCCAGGCTGGAGTGCAGTGGTGCAATCTCGGCTCACTGCAACCTCCG[TC]CTCCCGGGTTCAAGTGATTCTCCTGCCTCAGCCTCCTG AGTAACTGGGACTATAGACACG	
21645	I		S	GCATCCTGAGATTTTACAAAAGGGACGTCCTT	
21645	P	G	S	CGCGCCGAGGCTCTCACATGAGCCTCAY	
21645	P	C	S	ATGACGTGGCAGACGTCTCACATGAGCCTCAY	
21645	T	G	S	ATTTTGAGGCTCATGTGAGAGGAGCGTCCCTTTTGTAAAATCTCAGGATGCAA	
21645	T	C	S	ATTTTGAGGCTCATGTGAGACAGGACGTCCCTTTTGTAAAATCTCAGGATGCAA	
21645	IS	[GC]		CAATTTATGAGACAGTGGCACAAGGCTTTTCTTTATTTTAATTTTGAGGCTCATGTGAGA[GC]AGGACGTCCCTTTTGTAAAATCTCAGGATGCAAAATACCT TTTCTTCCATTCTGGAAAAC	
21646	I		S	CCACGCCCAGCCCATGTCATGTTTTTAAGCA	
21646	P	A	S	CGCGCCGAGGTTCACGTCATGTTTTCCAY	
21646	P	G	S	ATGACGTGGCAGACCTCACGTCATGTTTTCCAY	
21646	T	A	S	ATTCTGGAAAACATGACGTGAAGCTTAAAAACATGACATGGGCTGGGCGTGGTG	
21646	T	G	S	ATTCTGGAAAACATGACGTGAGGCTTAAAAACATGACATGGGCTGGGCGTGGTG	
21646	IS	[AG]		CTTTTGTAAAATCTCAGGATGCAAAATACCTTTTCTTCCATTCTGGAAAACATGACGTGA[AG]GCTTAAAAACATGACATGGGCTGGGCGTGGTGGCTCATG CCTGTAATCCCAGCACTTTGG	
21728	I		A	AGCCAGGTGTGGGCTCCTGGGTA	
21728	P	C	A	ATGACGTGGCAGACCCCGCCTGTGGGY	
21728	P	T	A	CGCGCCGAGGTCCGCCTGTGGGTY	
21728	T	C	A	AGCGACCCACAGGCGGGACCCAGGAGCCCACACCTGGCTAG	
21728	T	T	A	AGCGACCCACAGGCGGAACCCAGGAGCCCACACCTGGCTAG	
21728	IS	[CT]		GGGAACTCCTGAGCCAGGTGTGGTGGGCGGGATCTGCTAGCCAGGTGTGGGCTCCTGGG[CT]CCGCCTGTGGGTCGCTGGGAGGTGGGTCCAGTCTG AGCGCCCCTCCCTGTCCACAGGTGG	
21758	I		A	CGGTAATAAATCTGTGTTGGCCCCTGTGCCTT	
21758	P	G	A	ATGACGTGGCAGACGAGTCCCACGGATGGY	
21758	P	C	A	CGCGCCGAGGCAGTCCCACGGATGGY	
21758	T	G	A	CTGGCCATCCGTGGGACTCAGGCACAGGGGCCAACACAGATTTATTACCGGA	
21758	T	C	A	CTGGCCATCCGTGGGACTGAGGCACAGGGGCCAACACAGATTTATTACCGGA	
21758	IS	[GC]		CCTTTGCACCAATTACCTTTTCAGATTTCCGGTAATAAATCTGTGTTGGCCCCTGTGCCT[GC]AGTCCCACGGATGGCCAGTAGGGGGCGCTGGAGGACTG CGGGGATCTAGGGCCTGGCTGG	CYP4F8
21915	I		S	CAGAGGAAAGCAAGCAGTGAGTGTCTTTGAAAA	
21915	P	G	S	ATGACGTGGCAGACCTTGGTACTCCTGGGTTY	
21915	P	A	S	CGCGCCGAGGTTTGGTACTCCTGGGTTY	
21915	T	G	S	CCAAAACCCAGGAGTACCAAGTTTCAAAGACACTCACTGCTTGCTTTCCTCTGAA	
21915	T	A	S	CCAAAACCCAGGAGTACCAAATTTCAAAGACACTCACTGCTTGCTTTCCTCTGAA	
21915	IS	[GA]		TATACCCCAACAAAGAAATGTTAATTGGTCTAGAACTGACCCAAAACCCAGGAGTACCAA[GA]TTTCAAAGACACTCACTGCTTGCTTTCCTCTGAAAATGTC TACAGTCAACACAAAATAGA	
22004	I		S	CCATTCAACACCTCTAATCTTCAGGCCCCACTCTAACT	
22004	P	G	S	ATGACGTGGCAGACCCCCTCAGCCGGY	
22004	P	T	S	CGCGCCGAGGACCCTCAGCCGGY	
22004	T	G	S	TCTCCCGGCTGAGGGGGTTAGAGTGGGGCCTGAAGATTAGAGGTGTTGAATGGAG	
22004	T	T	S	TCTCCCGGCTGAGGGTGTTAGAGTGGGGCCTGAAGATTAGAGGTGTTGAATGGAG	
22004	IS	[GT]		GTGAACTATTCCCAGCTCGTGGAAGGGCTGCCATCTGGGAAGGGATCTCCCGGCTGAGGG[GT]GTTAGAGTGGGGCCTGAAGATTAGAGGTGTTGAATGG AGGCACAAAGGACTTGAGTGAGC	
22019	I		S	CCTCGGAGAGAGGGTTCGCAGGCTT	
22019	P	C	S	ATGACGTGGCAGACGACGGTCTCCCTGCY	
22019	P	T	S	CGCGCCGAGGAACGGTCTCCCTGCY	
22019	T	C	S	GTGGGCAGGGAGACCGTCAGCCTGCGAACCCTCTCTCCGAGGTC	
22019	T	T	S	GTGGGCAGGGAGACCGTTAGCCTGCGAACCCTCTCTCCGAGGTC	

Inventor: Sujoy Ray et al. Docket No.: 10004.0001-00000

FIGURE 129E

			CGGCCCGGGGGCCGACTCCACGGGCTGATTTCCGAAAAGGGTGGTGGGCAGGGAGACCGT[CT]AGCCTGCGAACCCTCTCTCCGAGGTCGGCCCTCTAC
22019 IS	[CT]		TTGCTTCCGGTTGCCTAGAAGCCG
22034 I		S	TCTTTTCACTCAACATTTGACTTTTGAACCTGGTCTGTAA
22034 P	A	S	CGCGCCGAGGTTGCTCCGTGCAGAY
22034 P	G	S	ATGACGTGGCAGACCTGCTCCGTGCAGAY
22034 T	A	S	TTGGTCTGCACGGAGCAATACAGACCAGGTTCAAAAGTCAAATGTTGAGTGAAAAGAGT
22034 T	G	S	TTGGTCTGCACGGAGCAGTACAGACCAGGTTCAAAAGTCAAATGTTGAGTGAAAAGAGT
			AACTATTTCTATGGCACAAGGAGACATATCAAATGAATGAACATTGGTCTGCACGGAGCA[AG]TACAGACCAGGTTCAAAAGTCAAATGTTGAGTGAAAAGAG
22034 IS	[AG]		TAAGTTGTAGGATGTTCCAC
22170 I		A	CGACATCCGCCCGCAAGAGCATGGA
22170 P	C	A	ATGACGTGGCAGACCGGGTGCCGGAGY
22170 P	T	A	CGCGCCGAGGTGGGTGCCGGAGY
22170 T	C	A	GGAGCTCCGGCACCCGCCATGCTCTTGCGGGCGGATGTCGCT
22170 T	T	A	GGAGCTCCGGCACCCACCATGCTCTTGCGGGCGGATGTCGCT
			GCGGCACTACACTGATCCGCACACGGAGATACACAGCGACATCCGCCCGCAAGAGCATGG[CT]GGGTGCCGGAGCTCCCGGCTGTGGGCCCAGGAACTA
22170 IS	[CT]		CATTTCCTAGAAGGATGTGCTAGA
22247 I		A	GCCTTTCAAAGGGTACAAAACCTTCTCCTTGATTTTTTATTAA
22247 P	T	A	CGCGCCGAGGTGAACAGTTATATCCTTTAATGTCY
22247 P	C	A	ATGACGTGGCAGACCGAACAGTTATATCCTTTAATGTCY
22247 T	T	A	CTGGGACATTAAAGGATATAACTGTTCATAATAAAAAATCAAGGAGAAGGTTTTGTACCCTTTGAAAGGCAT
22247 T	C	A	CTGGGACATTAAAGGATATAACTGTTCGTAATAAAAAATCAAGGAGAAGGTTTTGTACCCTTTGAAAGGCAT
			TCCTTCTAAAGAGGTTATGCCTTTCAAAGGGTACAAAACCTTCTCCTTGATTTTTTATTA[TC]GAACAGTTATATCCTTTAATGTCCCAGAATTGTTCTTGGAA
22247 IS	[TC]		GTTGGAGACTCACAAGAGG
22415 I		S	GGAGTCATACAGATCTGCAAATTTGTGCGTTTTAATTTTACGGTAATGTA
22415 P	G	S	ATGACGTGGCAGACCTAACATGTTGCAGGGTTY
22415 P	A	S	CGCGCCGAGGTTAACATGTTGCAGGGTTY
22415 T	G	S	GAAGAACCCTGCAACATGTTAGACATTACCGTAAAATTAAAACGCACAAATTTGCAGATCTGTATGACTCCCA
22415 T	A	S	GAAGAACCCTGCAACATGTTAAACATTACCGTAAAATTAAAACGCACAAATTTGCAGATCTGTATGACTCCCA
			AAGCCCTGCCTCTTCTCCCTCTATTGGGACTGGTCCCCTGAAGAACCCTGCAACATGTTA[GA]ACATTACCGTAAAATTAAAACGCACAAATTTGCAGATCTG
22415 IS	[GA]		TATGACTCCCAGTGTAATTG
22423 I		S	AGCAAAACCCTGTCTCTACTAAAAATACTAAAATTAGCCAGGTGTGGC
22423 P	A	S	CGCGCCGAGGTGGCGCAAACCTGTY
22423 P	C	S	ATGACGTGGCAGACGGGCGCAAACCTGY
22423 T	A	S	GATTACAGGTTTGCGCCACCACACCTGGCTAATTTTAGTATTTTTAGTAGAGACAGGGTTTTGCTAT
22423 T	C	S	GATTACAGGTTTGCGCCCCCACACCTGGCTAATTTTAGTATTTTTAGTAGAGACAGGGTTTTGCTAT
			GGGGTTCAAGCAATTCTCCTGCCTCAGCCTCCCAAGTAGCTAGGATTACAGGTTTGCGCC[AC]CCACACCTGGCTAATTTTAGTATTTTTAGTAGAGACAGG
22423 IS	[AC]		GTTTTGCTATGTTGGCCAGGC
22436 I		A	CTTTAGGGTAGCATCTAGCTCTCTGCTGGAGCAAT
22436 P	C	A	CGCGCCGAGGCCCTTCCAGGGAGACY
22436 P	G	A	ATGACGTGGCAGACGCCTTCCAGGGAGACY
22436 T	C	A	GTGAGTCTCCCTGGAAGGGTTGCTCCAGCAGAGAGCTAGATGCTACCCTAAAGTG
22436 T	G	A	GTGAGTCTCCCTGGAAGGCTTGCTCCAGCAGAGAGCTAGATGCTACCCTAAAGTG
			CCCTTGAAGACCTATGAAATAAGACACTTTAGGGTAGCATCTAGCTCTCTGCTGGAGCAA[CG]CCTTCCAGGGAGACTCACGCCTGTGCAAGTTTGAGTACC
22436 IS	[CG]		ACTGCCTCCCAAGAGCTGATT
22462 I		A	GGGCCACCCTACTGCCTCATGGGAT
22462 P	G	A	ATGACGTGGCAGACGCCTCACTTCAGCCCY
22462 P	A	A	CGCGCCGAGGACCTCACTTCAGCCCY
22462 T	G	A	TCCCGGGCTGAAGTGAGGCTCCCATGAGGCAGTAGGGTGGCCCAG
22462 T	A	A	TCCCGGGCTGAAGTGAGGTTCCCATGAGGCAGTAGGGTGGCCCAG
			CCAGAGCAGCAAAAGCTGAAGCAGCTCCCCCAGGCTGGGCCACCCTACTGCCTCATGGGA[GA]CCTCACTTCAGCCCGGGAGTTGGCAGGGCAGGCAGA
22462 IS	[GA]		CACCAGCACCCCATCCCATCCAGA
22633 I		S	CTTCACCATCCCCCAGGTGATGTCTGATCACA
22633 P	G	S	ATGACGTGGCAGACCCTGGCCTGTCTTCTAY
22633 P	A	S	CGCGCCGAGGTCTGGCCTGTCTTCTACY
22633 T	G	S	TCTTGTAGAAGACAGGCCAGGGTGATCAGACATCACCTGGGGGATGGTGAAGGA
22633 T	A	S	TCTTGTAGAAGACAGGCCAGAGTGATCAGACATCACCTGGGGGATGGTGAAGGA
			CTGGGGTAAGAGGGATTCTGGCTAAAATGACCTAGAGGAATCTTGTAGAAGACAGGCCAG[GA]GTGATCAGACATCACCTGGGGGATGGTGAAGGATGAA
22633 IS	[GA]		GACCCTGATCAGATATCAAAGAT
22820 I		A	CCCACCAGGCCCACACCATAGCCA
22820 P	C	A	ATGACGTGGCAGACCAGCACCCCTCCATAAY
22820 P	T	A	CGCGCCGAGGTAGCACCCCTCCATAACY
22820 T	C	A	CCTGGTTATGGAGGGGTGCTGGGCTATGGTGTGGGCCTGGTGGGGG
22820 T	T	A	CCTGGTTATGGAGGGGTGCTAGGCTATGGTGTGGGCCTGGTGGGGG
			AACTCCAACACAGCTCCCGCTCCCCAAGCCAGCATCCCCCACCAGGCCCACACCATAGCC[CT]AGCACCCCTCCATAACCAGGACAAGGTGGCCAGAGAAG
22820 IS	[CT]		GGGTAGGGGGCCTCCCCCATGA
22885 I		A	GATGTCTGTGCCAGGCACACCCGTT
22885 P	G	A	ATGACGTGGCAGACGGCAACGGGAGGTY
22885 P	A	A	CGCGCCGAGGAGCAACGGGAGGTGY
22885 T	G	A	TGGTCACCTCCCGTTGCCACGGGTGTGCCTGGCACAGACATCCA
22885 T	A	A	TGGTCACCTCCCGTTGCTACGGGTGTGCCTGGCACAGACATCCA
			CATGCAGGGGGGAGGGTGGCTCAGCCCTGGGAGCTGGATGTCTGTGCCAGGCACACCCGT[GA]GCAACGGGAGGTGACCAGACAGAGTCTAGCCCTAAG
22885 IS	[GA]		GAAGGGGGAGGTACTGAAAGCCAA
22938 I		S	CCACAGGTGTCCAGTAAATCCCCACAACAAGCTTAA
22938 P	A	S	CGCGCCGAGGTGAAGTAGGTGCTATTTGTCY
22938 P	G	S	ATGACGTGGCAGACCGAAGTAGGTGCTATTTGTY
22938 T	A	S	AGGGGACAAATAGCACCTACTTCATAAGCTTGTTGTGGGGATTTACTGGACACCTGTGGCA
22938 T	G	S	AGGGGACAAATAGCACCTACTTCGTAAGCTTGTTGTGGGGATTTACTGGACACCTGTGGCA
			ACTTCACTTCTTGGAGACTCAACTCCTCTGCCTGTAAAGGGGACAAATAGCACCTACTTC[AG]TAAGCTTGTTGTGGGGATTTACTGGACACCTGTGGCACG
22938 IS	[AG]		TGTAAAGTGCCTGGTACACAG
23012 I		A	GGTGCAAGGCAGGCTTACAGCATGCTT
23012 P	C	A	CGCGCCGAGGCCCTGTCCACCCAGY
23012 P	G	A	ATGACGTGGCAGACGCCTGTCCACCCAGY
23012 T	C	A	GCCTCTGGGTGGACAGGGAGCATGCTGTAAGCCTGCCTTGCACCCT
23012 T	G	A	GCCTCTGGGTGGACAGGCAGCATGCTGTAAGCCTGCCTTGCACCCT
			GGTGGTGGTTGTTTCTAGGAGACCCACCCAGGAGGGTGCAAGGCAGGCTTACAGCATGCT[CG]CCTGTCCACCCAGAGGCACCCTCCCCGAGCCCAGTAC
23012 IS	[CG]		CAACCTCAAGGCTGCGGATCTCC
23015 I		A	CAGGCACAAGGGGGACTGGCTGTGA
23015 P	C	A	ATGACGTGGCAGACCGGGTCTGACCACAGY
23015 P	T	A	CGCGCCGAGGTGGGTCTGACCACAGY
23015 T	C	A	GATGCTGTGGTCAGACCCGCACAGCCAGTCCCCCTTGTGCCTGCT
23015 T	T	A	GATGCTGTGGTCAGACCCACACAGCCAGTCCCCCTTGTGCCTGCT
			GCTCAGTGCTCAATGATAGTGGTGAAGTTTCTTCAGCAGGCACAAGGGGGACTGGCTGTG[CT]GGGTCTGACCACAGCATCTGCGAAGGCTCTTCCTGCTT
23015 IS	[CT]		GGAGCGCTCCAAGCCCTGGGGA
23042 I		S	GCTGACATCAGAGAGTCTGCCACGATGGTA
23042 P	A	S	CGCGCCGAGGTGGTGCCTCCACACY
23042 P	G	S	ATGACGTGGCAGACCGGTGCCTCCACAY
23042 T	A	S	TGCAGTGTGGAGGCACCAACCATCGTGGCAGACTCTCTGATGTCAGCGT
23042 T	G	S	TGCAGTGTGGAGGCACCGACCATCGTGGCAGACTCTCTGATGTCAGCGT

FIGURE 129E

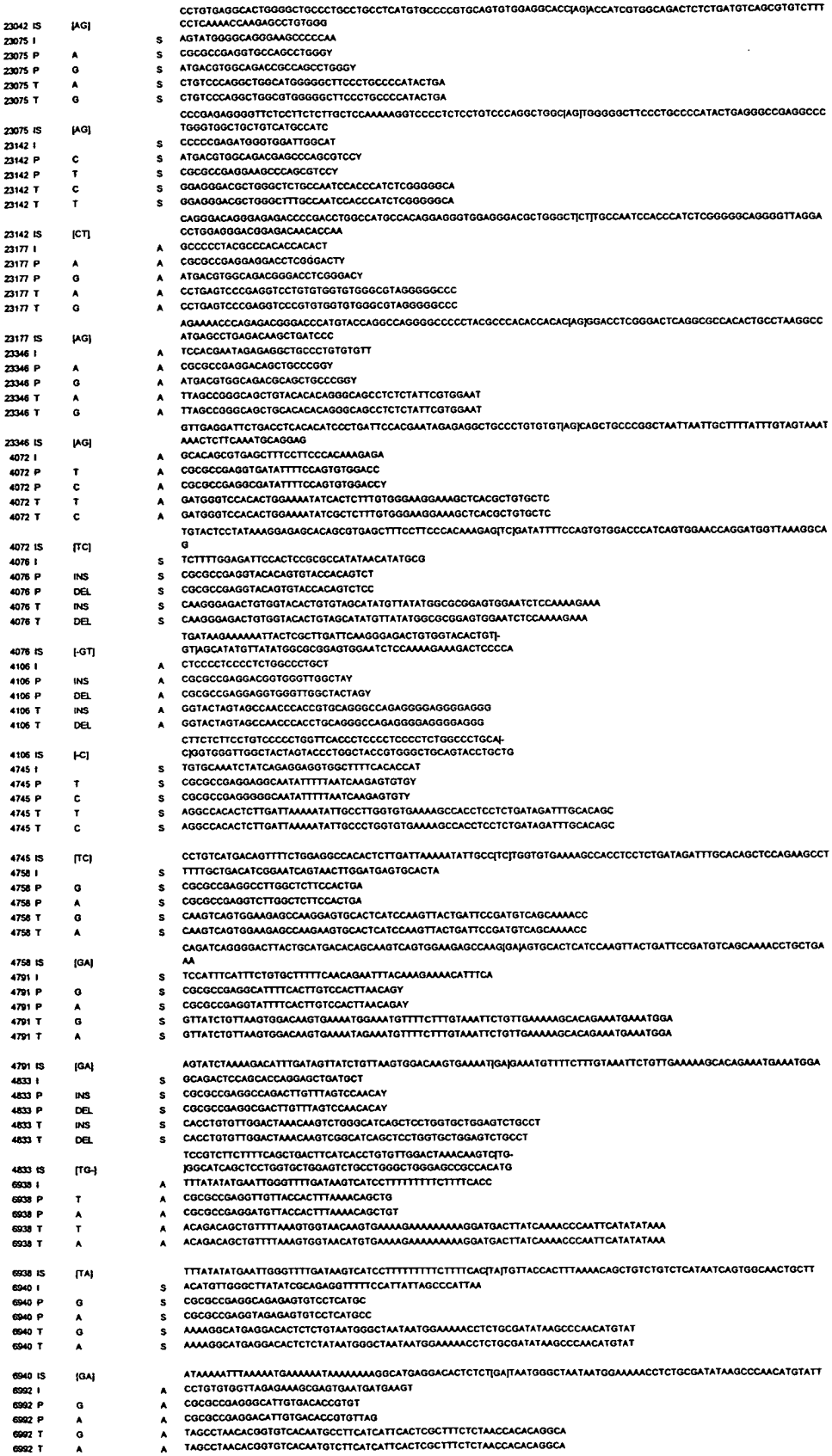

CCTGTGAGGCACTGGGGCTGCCCTGCCTGCCTCATGTGCCCCGTGCAGTGTGGAGGCACC[AG]ACCATCGTGGCAGACTCTCTGATGTCAGCGTGTCTTT
23042 IS [AG] CCTCAAAACCAAGAGCCTGTGGG
23075 I S AGTATGGGGCAGGGAAGCCCCCAA
23075 P A S CGCGCCGAGGTGCCAGCCTGGGY
23075 P G S ATGACGTGGCAGACCGCCAGCCTGGGY
23075 T A S CTGTCCCAGGCTGGCATGGGGGCTTCCCTGCCCCATACTGA
23075 T G S CTGTCCCAGGCTGGCGTGGGGGCTTCCCTGCCCCATACTGA
CCCGAGAGGGGTTCTCCTTCTCTTGCTCCAAAAAGGTCCCCTCTCCTGTCCCAGGCTGGC[AG]TGGGGGCTTCCCTGCCCCATACTGAGGGCCGAGGCCC
23075 IS [AG] TGGGTGGCTGCTGTCATGCCATC
23142 I S CCCCCGAGATGGGTGGATTGGCAT
23142 P C S ATGACGTGGCAGACGAGCCCAGCGTCCY
23142 P T S CGCGCCGAGGAAGCCCAGCGTCCY
23142 T C S GGAGGGACGCTGGGCTCTGCCAATCCACCCATCTCGGGGGCA
23142 T T S GGAGGGACGCTGGGCTTTGCCAATCCACCCATCTCGGGGGCA
CAGGGACAGGGAGAGACCCCGACCTGGCCATGCCACAGGAGGGTGGAGGGACGCTGGGCT[CT]TGCCAATCCACCCATCTCGGGGGCAGGGGTTAGGA
23142 IS [CT] CCTGGAGGGACGGAGACAACACCAA
23177 I A GCCCCCTACGCCCACACCACACT
23177 P A A CGCGCCGAGGAGGACCTCGGGACTY
23177 P G A ATGACGTGGCAGACGGGACCTCGGGACY
23177 T A A CCTGAGTCCCGAGGTCCTGTGTGGTGTGGGCGTAGGGGGCCC
23177 T G A CCTGAGTCCCGAGGTCCCGTGTGGTGTGGGCGTAGGGGGCCC
AGAAAACCCAGAGACGGGACCCATGTACCAGGCCAGGGGCCCCCTACGCCCACACCACACAC[AG]GGACCTCGGGACTCAGGCGCCACACTGCCTAAGGCC
23177 IS [AG] ATGAGCCTGAGACAAGCTGATCCC
23346 I A TCCACGAATAGAGAGGCTGCCCTGTGTGTT
23346 P A A CGCGCCGAGGACAGCTGCCCGGY
23346 P G A ATGACGTGGCAGACGCAGCTGCCCGGY
23346 T A A TTAGCCGGGCAGCTGTACACACAGGGCAGCCTCTCTATTCGTGGAAT
23346 T G A TTAGCCGGGCAGCTGCACACACAGGGCAGCCTCTCTATTCGTGGAAT
GTTGAGGATTCTGACCTCACACATCCCTGATTCCACGAATAGAGAGGCTGCCCTGTGTGT[AG]CAGCTGCCCGGCTAATTAATTGCTTTTATTTGTAGTAAAT
23346 IS [AG] AAACTCTTCAAATGCAGGAG
4072 I A GCACAGCGTGAGCTTTCCTTCCCACAAAGAGA
4072 P T A CGCGCCGAGGTGATATTTTCCAGTGTGGACC
4072 P C A CGCGCCGAGGCGATATTTTCCAGTGTGGACCY
4072 T T A GATGGGTCCACACTGGAAAATATCACTCTTTGTGGGAAGGAAAGCTCACGCTGTGCTC
4072 T C A GATGGGTCCACACTGGAAAATATCGCTCTTTGTGGGAAGGAAAGCTCACGCTGTGCTC
TGTACTCCTATAAAGGAGAGCACAGCGTGAGCTTTCCTTCCCACAAAGAG[TC]GATATTTTCCAGTGTGGACCCATCAGTGGAACCAGGATGGTTAAAGGCA
4072 IS [TC] G
4076 I S TCTTTTGGAGATTCCACTCCGCGCCATATAACATATGCG
4076 P INS S CGCGCCGAGGTACACAGTGTACCACAGTCT
4076 P DEL S CGCGCCGAGGTACAGTGTACCACAGTCTCC
4076 T INS S CAAGGGAGACTGTGGTACACTGTGTAGCATATGTTATATGGCGCGGAGTGGAATCTCCAAAAGAAA
4076 T DEL S CAAGGGAGACTGTGGTACACTGTAGCATATGTTATATGGCGCGGAGTGGAATCTCCAAAAGAAA
TGATAAGAAAAAATTACTCGCTTGATTCAAGGGAGACTGTGGTACACTGT[-GT]AGCATATGTTATATGGCGCGGAGTGGAATCTCCAAAAGAAAGACTCCCCA
4078 IS [-GT]
4106 I A CTCCCCTCCCCTCTGGCCCTGCT
4106 P INS A CGCGCCGAGGACGGTGGGTTGGCTAY
4106 P DEL A CGCGCCGAGGAGGTGGGTTGGCTACTAGY
4106 T INS A GGTACTAGTAGCCAACCCACCGTGCAGGGCCAGAGGGGAGGGGAGGG
4106 T DEL A GGTACTAGTAGCCAACCCACCTGCAGGGCCAGAGGGGAGGGGAGGG
CTTCTCTTCCTGTCCCCCTGGTTCACCCTCCCCTCCCCTCTGGCCCTGCA[-C]GGTGGGTTGGCTACTAGTACCCTGGCTACCGTGGGCTGCAGTACCTGCTG
4106 IS [-C]
4745 I S TGTGCAAATCTATCAGAGGAGGTGGCTTTTCACACCAT
4745 P T S CGCGCCGAGGAGGCAATATTTTTAATCAAGAGTGTGY
4745 P C S CGCGCCGAGGGGGCAATATTTTTAATCAAGAGTGTY
4745 T T S AGGCCACACTCTTGATTAAAAATATTGCCTTGGTGTGAAAAGCCACCTCCTCTGATAGATTTGCACAGC
4745 T C S AGGCCACACTCTTGATTAAAAATATTGCCCTGGTGTGAAAAGCCACCTCCTCTGATAGATTTGCACAGC
CCTGTCATGACAGTTTTCTGGAGGCCACACTCTTGATTAAAAATATTGCC[TC]TGGTGTGAAAAGCCACCTCCTCTGATAGATTTGCACAGCTCCAGAAGCCT
4745 IS [TC]
4758 I S TTTTGCTGACATCGGAATCAGTAACTTGGATGAGTGCACTA
4758 P G S CGCGCCGAGGCCTTGGCTCTTCCACTGA
4758 P A S CGCGCCGAGGTCTTGGCTCTTCCACTGA
4758 T G S CAAGTCAGTGGAAGAGCCAAGGAGTGCACTCATCCAAGTTACTGATTCCGATGTCAGCAAAACC
4758 T A S CAAGTCAGTGGAAGAGCCAAGAAGTGCACTCATCCAAGTTACTGATTCCGATGTCAGCAAAACC
CAGATCAGGGGACTTACTGCATGACACAGCAAGTCAGTGGAAGAGCCAAG[GA]AGTGCACTCATCCAAGTTACTGATTCCGATGTCAGCAAAACCTGCTGA
4758 IS [GA] AA
4791 I S TCCATTTCATTTCTGTGCTTTTTCAACAGAATTTACAAAGAAAACATTTCA
4791 P G S CGCGCCGAGGCATTTTCACTTGTCCACTTAACAGY
4791 P A S CGCGCCGAGGTATTTTCACTTGTCCACTTAACAGAY
4791 T G S GTTATCTGTTAAGTGGACAAGTGAAAATGGAAATGTTTTCTTTGTAAATTCTGTTGAAAAAGCACAGAAATGAAATGGA
4791 T A S GTTATCTGTTAAGTGGACAAGTGAAAATAGAAATGTTTTCTTTGTAAATTCTGTTGAAAAAGCACAGAAATGAAATGGA
AGTATCTAAAAGACATTTGATAGTTATCTGTTAAGTGGACAAGTGAAAAT[GA]GAAATGTTTTCTTTGTAAATTCTGTTGAAAAAGCACAGAAATGAAATGGA
4791 IS [GA]
4833 I S GCAGACTCCAGCACCAGGAGCTGATGCT
4833 P INS S CGCGCCGAGGCCAGACTTGTTTAGTCCAACAY
4833 P DEL S CGCGCCGAGGCCGACTTGTTTAGTCCAACAY
4833 T INS S CACCTGTGTTGGACTAAACAAGTCTGGGCATCAGCTCCTGGTGCTGGAGTCTGCCT
4833 T DEL S CACCTGTGTTGGACTAAACAAGTCGGCATCAGCTCCTGGTGCTGGAGTCTGCCT
TCCGTCTTCTTTTCAGCTGACTTCATCACCTGTGTTGGACTAAACAAGTC[TG-]GGCATCAGCTCCTGGTGCTGGAGTCTGCCTGGGCTGGGAGCCGCCACATG
4833 IS [TG-]
6938 I A TTTATATATGAATTGGGTTTTGATAAGTCATCCTTTTTTTTTCTTTTCACC
6938 P T A CGCGCCGAGGTTGTTACCACTTTAAAACAGCTG
6938 P A A CGCGCCGAGGATGTTACCACTTTAAAACAGCTGT
6938 T T A ACAGACAGCTGTTTTAAAGTGGTAACAAGTGAAAAGAAAAAAAAAAGGATGACTTATCAAAACCCAATTCATATATAAA
6938 T A A ACAGACAGCTGTTTTAAAGTGGTAACATGTAAAAGAAAAAAAAAGGATGACTTATCAAAACCCAATTCATATATAAA
TTTATATATGAATTGGGTTTTGATAAGTCATCCTTTTTTTTTCTTTTCAC[TA]TGTTACCACTTTAAAACAGCTGTCTGTCTCATAATCAGTGGCAACTGCTT
6938 IS [TA]
6940 I S ACATGTTGGGCTTATATCGCAGAGGTTTTTCCATTATTAGCCCATTAA
6940 P G S CGCGCCGAGGCAGAGAGTGTCCTCATGC
6940 P A S CGCGCCGAGGTAGAGAGTGTCCTCATGCC
6940 T G S AAAAGGCATGAGGACACTCTCTGTAATGGGCTAATAATGGAAAAACCTCTGCGATATAAGCCCAACATGTAT
6940 T A S AAAAGGCATGAGGACACTCTCTATAATGGGCTAATAATGGAAAAACCTCTGCGATATAAGCCCAACATGTAT
ATAAAAATTTAAAAATGAAAAAATAAAAAAAAGGCATGAGGACACTCTCT[GA]TAATGGGCTAATAATGGAAAAACCTCTGCGATATAAGCCCAACATGTATT
6992 I A CCTGTGTGGTTAGAGAAAGCGAGTGAATGATGAAGT
6992 P G A CGCGCCGAGGGCATTGTGACACCGTGT
6992 P A A CGCGCCGAGGACATTGTGACACCGTGTTAG
6992 T G A TAGCCTAACACGGTGTCACAATGCCTTCATCATTCACTCGCTTTCTCTAACCACACAGGCA
6992 T A A TAGCCTAACACGGTGTCACAATGTCTTCATCATTCACTCGCTTTCTCTAACCACACAGGCA

FIGURE 129E

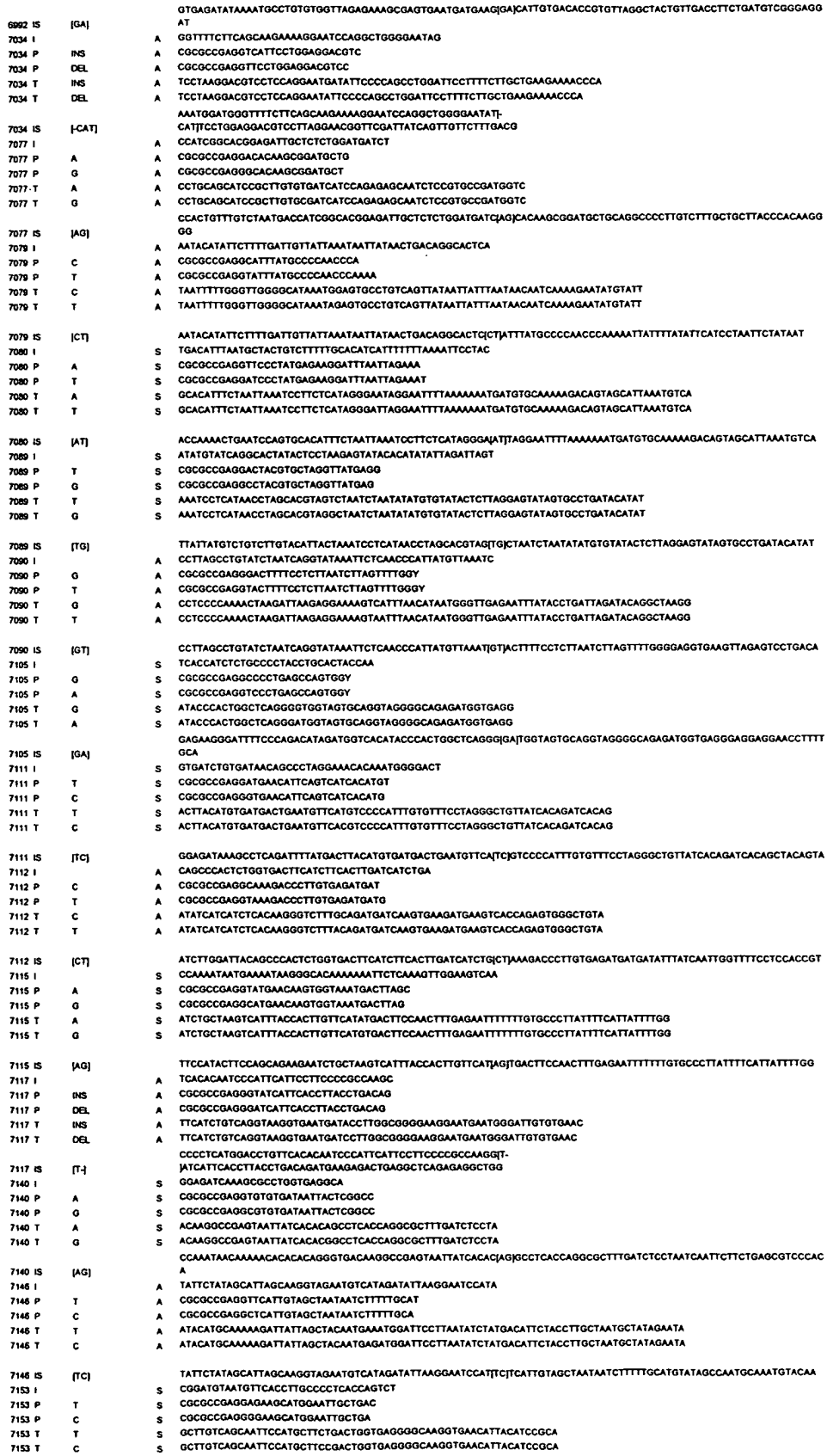
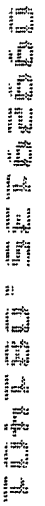


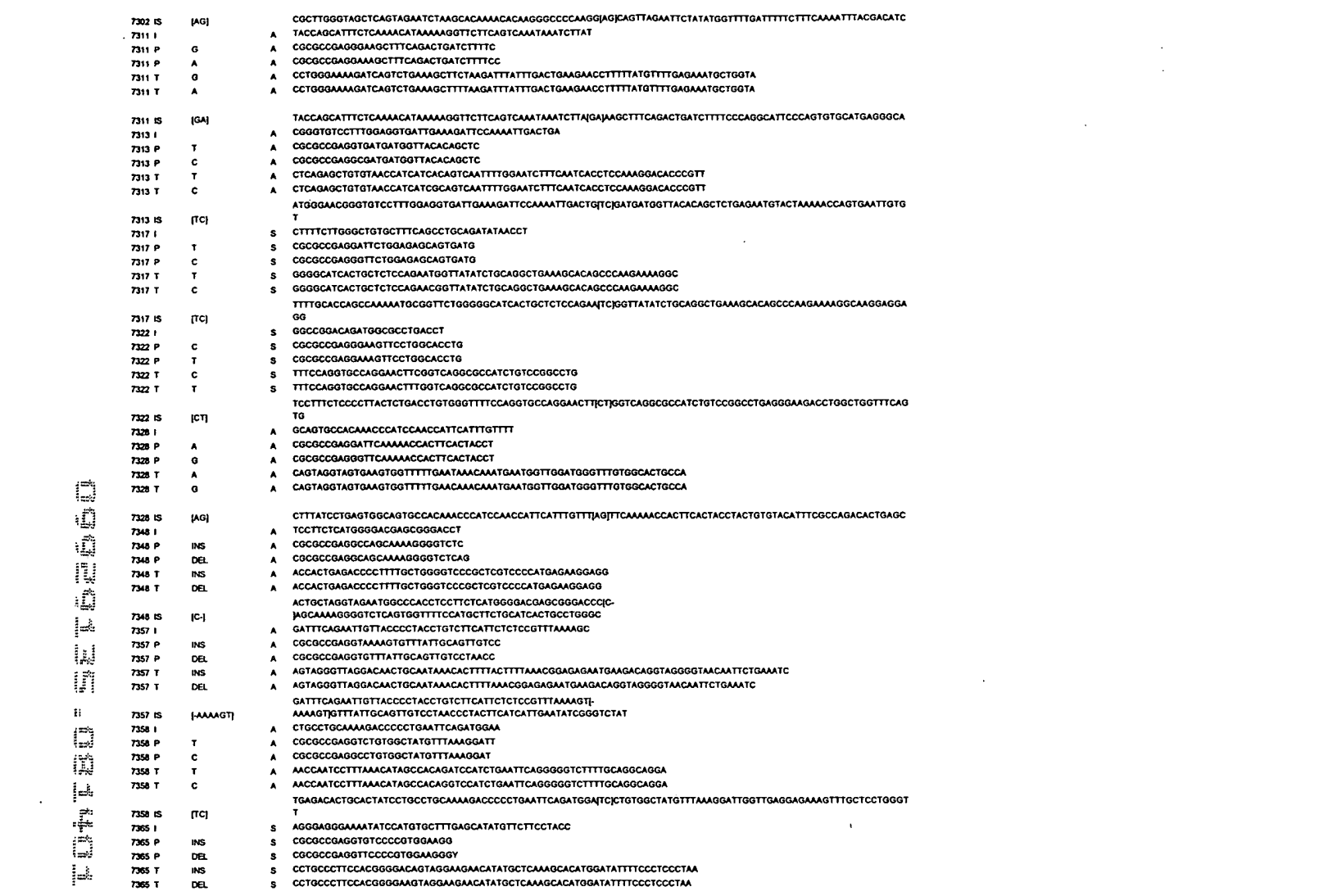
Exhibit 1002
IPR2022-00033
U.S. Patent No. 10,227,648

FIGURE 129E



			AACCTCCAACCCCACGCCAAGCTCTGTGCTTGTCAGCAATTCCATGCTTC[TC]GACTGGTGAGGGGCAAGGTGAACATTACATCCGCACAATCATCCCCAAG
7153 IS	[TC]		C
7158 I		S	TGGTGGCAGCCCTGAACTACCCCCTA
7158 P	A	S	CGCGCCGAGGTCATACCATTGCAGTTGAATTTC
7158 P	G	S	CGCGCCGAGGCCATACCATTGCAGTTGAATTTC
7158 T	A	S	AAAAGAAATTCAACTGCAATGGTATGAAGGGGGTAGTTCAGGGCTGCCACCAGA
7158 T	G	S	AAAAGAAATTCAACTGCAATGGTATGGAGGGGGTAGTTCAGGGCTGCCACCAGA
			TCACCAGATGCAATTTACGCAAGTAAAAGAAATTCAACTGCAATGGTATG[AG]AGGGGGTAGTTCAGGGCTGCCACCAGAACCAAGTTTCTGCCTGCTTTCT
7158 IS	[AG]		A
7161 I		S	GTGGGCCTCAGATCTCCCATCCTTGAGATGAGAGT
7161 P	T	S	CGCGCCGAGGAATTCAAATCCAGCTCCACC
7161 P	C	S	CGCGCCGAGGGATTCAAATCCAGCTCCACC
7161 T	T	S	CAGAGGTGGAGCTGGATTTGAATTCTCTCATCTCAAGGATGGGAGATCTGAGGCCCACAC
7161 T	C	S	CAGAGGTGGAGCTGGATTTGAATCCTCTCATCTCAAGGATGGGAGATCTGAGGCCCACAC
			TGCAGTGCAGGGGAAGGGCGTGGGCTGCAGAGGTGGAGCTGGATTTGAAT[TC]CTCTCATCTCAAGGATGGGAGATCTGAGGCCCACACTGGGGCTGGA
7161 IS	[TC]		CCTG
7163 I		S	AGAAGCTGTGTCAAGAGGGATATCATGTTTCTTTAAAGAGTATTCGTTTA
7163 P	INS	S	CGCGCCGAGGTCCCATTTGTAGAAGTGATGAC
7163 P	DEL	S	CGCGCCGAGGTCCATTTGTAGAAGTGATGACTTTA
7163 T	INS	S	GCAGTAAAGTCATCACTTCTACAAATGGGAAAACGAATACTCTTTAAAGAAACATGATATCCCTCTTGACACAGCTTCT
7163 T	DEL	S	GCAGTAAAGTCATCACTTCTACAAATGGAAAACGAATACTCTTTAAAGAAACATGATATCCCTCTTGACACAGCTTCT
			ATAGTAATGCAATATTAGCCTTGCAGTAAAGTCATCACTTCTACAAATGG[-G]AAAACGAATACTCTTTAAAGAAACATGATATCCCTCTTGACACAGCTTCT
7163 IS	[-G]		
7189 I		S	AGTCCCAGGAAAACCCTGTTGCTCCGGAAAC
7189 P	T	S	CGCGCCGAGGAGCCTCCTTGGGCCY
7189 P	A	S	CGCGCCGAGGTGCCTCCTTGGGCCY
7189 T	T	S	CCATGGCCCAAGGAGGCTTTTCCGGAGCAACAGGGTTTTCCTGGGACTCA
7189 T	A	S	CCATGGCCCAAGGAGGCATTTCCGGAGCAACAGGGTTTTCCTGGGACTCA
			TCTGAGTGTAATGGTGGAAATCCAGGCTTCCTTCCATGGCCCAAGGAGGC[TA]TTTCCGGAGCAACAGGGTTTTCCTGGGACTCAGCCTGGCTTTTGTTAA
7189 IS	[TA]		GG
7239 I		A	AAACAAAGAGTTTTTTTAAATAAAACACTTTATAATAAATGTCTGTCTCTA
7239 P	C	A	CGCGCCGAGGCGACATTCCAAACCTTTTACTG
7239 P	T	A	CGCGCCGAGGTGACATTCCAAACCTTTTACTGA
7239 T	C	A	ATACTCAGTAAAAGGTTTGGAATGTCGAGAGACAGACATTTATTATAAAGTGTTTTATTTAAAAAAACTCTTTGTTT
7239 T	T	A	ATACTCAGTAAAAGGTTTGGAATGTCAAGAGACAGACATTTATTATAAAGTGTTTTATTTAAAAAAACTCTTTGTTT
			AAACAAAGAGTTTTTTTAAATAAAACACTTTATAATAAATGTCTGTCTCT[CT]GACATTCCAAACCTTTTACTGAGTATCCTCTGAAAATAATAAATTTTGTG
7239 IS	[CT]		
7246 I		S	GGTCTCCTCGGCGGCGCCGC
7246 P	A	S	CGCGCCGAGGTGCTGCGACTCACACCY
7246 P	T	S	CGCGCCGAGGAGCTGCGACTCACACCY
7246 T	A	S	GGCAGGTGTGAGTCGCAGCACGGCGCCGCCGAGGAGACCAA
7246 T	T	S	GGCAGGTGTGAGTCGCAGCTCGGCGCCGCCGAGGAGACCAA
			ACTAAAAGCAAGTCAAATGTCCCAGTAACATGGCAGGTGTGAGTCGCAGC[AT]CGGCGCCGCCGAGGAGACCAAACCCACCCACGGCATGAGCGTGAGTC
7246 IS	[AT]		GCT
7255 I		S	GGTACACCATGCTCATGTGGCCATATGAAGAAAAAAGGAGAG
7255 P	INS	S	CGCGCCGAGGCTATTAACAGCCAAGGTATCCCY
7255 P	DEL	S	CGCGCCGAGGCTTAACAGCCAAGGTATCCCY
7255 T	INS	S	ATATGGGGGATACCTTGGCTGTTAATAGTCTCCTTTTTTCTTCATATGGCCACATGAGCATGGTGTACCAG
7255 T	DEL	S	ATATGGGGGATACCTTGGCTGTTAAGTCTCCTTTTTTCTTCATATGGCCACATGAGCATGGTGTACCAG
			AATTCCAAGATCTCAGAGAGATGTTATATGGGGGATACCTTGGCTGTTAA[TA-]GTCTCCTTTTTTCTTCATATGGCCACATGAGCATGGTGTACCAGGAACCC
7255 IS	[TA-]		
7258 I		A	TCAAGTAACATAAAAAGAGAGAAAATATAGAATTAATTCAAGGTTCAAAAA
7258 P	C	A	CGCGCCGAGGCTCCTATGACAAGGACTATGATCA
7258 P	T	A	CGCGCCGAGGTTCCTATGACAAGGACTATGATCA
7258 T	C	A	ACACTGATCATAGTCCTTGTCATAGGAGTTTTGAACCTTGAATTAATTCTATATTTTCTCTCTTTTTATGTTACTTGA
7258 T	T	A	ACACTGATCATAGTCCTTGTCATAGGAATTTTGAACCTTGAATTAATTCTATATTTTCTCTCTTTTTATGTTACTTGA
			TCAAGTAACATAAAAAGAGAGAAAATATAGAATTAATTCAAGGTTCAAAA[CT]TCCTATGACAAGGACTATGATCAGTGTTAGCACATAATGCTGTGATTCCC
7258 IS	[CT]		
7263 I		S	ACCACGTAAGCTCGCGGATGGTCTGCTCT
7263 P	C	S	CGCGCCGAGGGTGTGTCTCGGCTGC
7263 P	T	S	CGCGCCGAGGATGTGTCTCGGCTGCT
7263 T	C	S	GAACAGCAGCCGAGACACACGAGCAGACCATCCGCGAGCTTACGTGGTGT
7263 T	T	S	GAACAGCAGCCGAGACACATGAGCAGACCATCCGCGAGCTTACGTGGTGT
			AGCCTGGCCTTGTGGTCTGCTTTGGCAGATGGAACAGCAGCCGAGACACA[CT]GAGCAGACCATCCGCGAGCTTACGTGGTGTGGTTTGACCCGCACTCT
7263 IS	[CT]		TTG
7267 I		A	CGGCTCATGCACTGAAATACGGTGAATGCATCTCCA
7267 P	C	A	CGCGCCGAGGCTTCTGTTCACGCAACTCC
7267 P	T	A	CGCGCCGAGGTTTCTGTTCACGCAACTCC
7267 T	C	A	AGTTGGAGTTGCGTGAACAGAAGGGAGATGCATTCACCGTATTTCAGTGCATGAGCCGCA
7267 T	T	A	AGTTGGAGTTGCGTGAACAGAAGGAGATGCATTCACCGTATTTCAGTGCATGAGCCGCA
			ATTATAATCATGCTGCGGCTCATGCACTGAAATACGGTGAATGCATCTCC[CT]TTCTGTTCACGCAACTCCAACTTCACATACAGAAAACAGAACTAGCACCT
7267 IS	[CT]		
7278 I		S	GCTGACATAGATGTCAGACCTCTGTCTGGGGATGGAGC
7278 P	C	S	CGCGCCGAGGGCCTGAAGCTAAGCTCAAG
7278 P	A	S	CGCGCCGAGGTCCTGAAGCTAAGCTCAAGA
7278 T	C	S	GCTTTCTTGAGCTTAGCTTCAGGACTCCATCCCCAGACAGAGGTCTGACATCTATGTCAGCCT
7278 T	A	S	GCTTTCTTGAGCTTAGCTTCAGGACTCCATCCCCAGACAGAGGTCTGACATCTATGTCAGCCT
			TTTAAGCTAGCCACTTGAACTTCTCGAGCTTTCTTGAGCTTAGCTTCAGG[CA]CTCCATCCCCAGACAGAGGTCTGACATCTATGTCAGCCTCTAGCAAGGC
7278 IS	[CA]		A
7285 I		A	GGAATTCGTTCCCACCTGGCCACCCTCT
7285 P	A	A	CGCGCCGAGGACGACTGCGGCATTC
7285 P	C	A	CGCGCCGAGGCCGACTGCGGCATTC
7285 T	A	A	GCCTGAATGCCGCAGTCGTGAGGGTGGCCAGGTGGGAACGAATTCCAG
7285 T	C	A	GCCTGAATGCCGCAGTCGGGAGGGTGGCCAGGTGGGAACGAATTCCAG
			GCTGCTTCCTGGGCTGGGCTGCTGGAATTCGTTCCCACCTGGCCACCCTC[AC]CGACTGCGGCATTCAGGCTCCCCGCCTGCCCAGTGAGACAGCACTCA
7285 IS	[AC]		GCC
7297 I		S	AGCAAAGGCATTGAATACTCGAACCCCATCATTTCTGAATCATATGATC
7297 P	T	S	CGCGCCGAGGAGCATTTTACTATTGCGTGTGY
7297 P	A	S	CGCGCCGAGGTGCATTTTACTATTGCGTGTG
7297 T	T	S	GCAGCACACGCAATAGTAAAATGCTATCATATGATTCAGAAATGATGGGGTTCGAGTATTCAATGCCTTTGCTTT
7297 T	A	S	GCAGCACACGCAATAGTAAAATGCAATCATATGATTCAGAAATGATGGGGTTCGAGTATTCAATGCCTTTGCTTT
			ACGCGCGGCAGGCCCAGGGAACCTCGGCAGCACACGCAATAGTAAAATGC[TA]ATCATATGATTCAGAAATGATGGGGTTCGAGTATTCAATGCCTTTGCTT
7297 IS	[TA]		T
7302 I		S	GATGTCGTAAATTTTGAAAGAAAAATCAAAACCATATAGAATTCTAACTGA
7302 P	A	S	CGCGCCGAGGTCCTTGGGGCCCTTG
7302 P	G	S	CGCGCCGAGGCCCTTGGGGCCCTT
7302 T	A	S	AACACAAGGGCCCCAAGGACAGTTAGAATTCTATATGGTTTTGATTTTTCTTTCAAAATTTACGACATC
7302 T	G	S	AACACAAGGGCCCCAAGGGCAGTTAGAATTCTATATGGTTTTGATTTTTCTTTCAAAATTTACGACATC

FIGURE 129E



Filed Under Seal

FIGURE 129E

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7497 T    C      A    AGAGAGCTGTGGGCTGAGTGTGAGCCTCAAGGCTTTTTCAGCATAAAACACCGCAAA
7497 T    G      A    AGAGAGCTGTGGGCTGAGTCTGAGCCTCAAGGCTTTTTCAGCATAAAACACCGCAAA

7497 IS   [CG]          CTTATCAACAGTCTTTGCGGTGTTTTATGCTGAAAAAGCCTTGAGGCTCA[CG]ACTCAGCCCACAGCTCTCTGCATTCCCTCCACCTCCCTTCTATGTCTTTC
7525 I           A    CCCTTGGTCATTCTAGCCAGTGGTTCCATCAGTGAATA
7525 P    T      A    CGCGCCGAGGTCCCCAACGGTGGGY
7525 P    C      A    CGCGCCGAGGCCCCCAACGGTGGGY
7525 T    T      A    TTTCCCCACCGTTGGGGAATTCACTGATGGAACCACTGGCTAGAATGACCAAGGGTG
7525 T    C      A    TTTCCCCACCGTTGGGGGATTCACTGATGGAACCACTGGCTAGAATGACCAAGGGTG

7525 IS   [TC]          TGTAGTGCATGCACCCTTGGTCATTCTAGCCAGTGGTTCCATCAGTGAAT[TC]CCCCAACGGTGGGGAAAGAAGGCTGCTGCTGGCTCTCCTGTCCCCACC
                       CC
7527 I           S    AGGCTTTCTCTACCTCTAGACATAGTTTTCAACAGGTGTATAATACTCCAC
7527 P    A      S    CGCGCCGAGGTTTTGTGGATCCACCGTAATT
7527 P    T      S    CGCGCCGAGGATTTGTGGATCCACCGTAATT
7527 T    A      S    TATAAATTACGGTGGATCCACAAAATGGAGTATTATACACCTGTTGAAAACTATGTCTAGAGGTAGAGAAAGCCT
7527 T    T      S    TATAAATTACGGTGGATCCACAAATTGGAGTATTATACACCTGTTGAAAACTATGTCTAGAGGTAGAGAAAGCCT

7527 IS   [AT]          AGCTAAATTTTCAATAGTAAGAGTGTTATAAATTACGGTGGATCCACAAA[AT]TGGAGTATTATACACCTGTTGAAAACTATGTCTAGAGGTAGAGAAAGCCT
7554 I           S    GCACCCAGCACAGCCCCAGGCC
7554 P    A      S    CGCGCCGAGGTCAGACGAAGCCCCATT
7554 P    T      S    CGCGCCGAGGACAGACGAAGCCCCAT
7554 T    A      S    CACTAATGGGGCTTCGTCTGAGCCTGGGGCTGTGCTGGGTGCCT
7554 T    T      S    CACTAATGGGGCTTCGTCTGTGCCTGGGGCTGTGCTGGGTGCCT

7554 IS   [AT]          TCCAGGCTGGTGGGAGAATTAGGGAAACAGCACTAATGGGGCTTCGTCTG[AT]GCCTGGGGCTGTGCTGGGTGCCTTCGCCTCAGGAGCCCCCATGCCAC
                       TGG
7586 I           S    CTCGGCCTCCCAAGGCGTGAACCTCA
7586 P    G      S    CGCGCCGAGGCGTGCCCAGCCAC
7586 P    A      S    CGCGCCGAGGTGTGCCCAGCCACCY
7586 T    G      S    AAAGGGTGGCTGGGCACGGAGGTTCACGCCTTGGGAGGCCGAGGC
7586 T    A      S    AAAGGGTGGCTGGGCACAGAGGTTCACGCCTTGGGAGGCCGAGGC

7586 IS   [GA]          ACCCGGGATCATTTGGCAATATCTGAAGACAGAAAAGGGTGGCTGGGCAC[GA]GAGGTTCACGCCTTGGGAGGCCGAGGCAGGCAGATCACTCAAGGTCA
                       GGA
7607 I           S    AGCAGCCTGCTTTCATAATCTCCCATTTTCCAA
7607 P    A      S    CGCGCCGAGGTTGTGTTGCAAATTCTTGTACATT
7607 P    G      S    CGCGCCGAGGCTGTGTTGCAAATTCTTGTACATT
7607 T    A      S    AGAAAATGTACAAGAATTTGCAACACAATGGAAAATGGGAGATTATGAAAGCAGGCTGCTTG
7607 T    G      S    AGAAAATGTACAAGAATTTGCAACACAGTGGAAAATGGGAGATTATGAAAGCAGGCTGCTTG

7607 IS   [AG]          GCCTTCATGTTTCTCAGAGAGCAAGAAAATGTACAAGAATTTGCAACACA[AG]TGGAAAATGGGAGATTATGAAAGCAGGCTGCTTGTTGTTAATATTTACAG
7620 I           A    ATCATGGTCTGGTACTCACTTTGGCAGCACATATAATAAAATTGGAAAGAA
7620 P    C      A    CGCGCCGAGGCCATGGTCTGGAAAGTAATATATACAY
7620 P    T      A    CGCGCCGAGGTCATGGTCTGGAAAGTAATATATACAA
7620 T    C      A    TATTTTTGTATATATTACTTTCCAGACCATGGTCTTTCCAATTTTATTATATGTGCTGCCAAAGTGAGTACCAGACCATGAT
7620 T    T      A    TATTTTTGTATATATTACTTTCCAGACCATGATCTTTCCAATTTTATTATATGTGCTGCCAAAGTGAGTACCAGACCATGAT

7620 IS   [CT]          ATCATGGTCTGGTACTCACTTTGGCAGCACATATAATAAAATTGGAAAGA[CT]CATGGTCTGGAAAGTAATATATACAAAAATAGATGGTTAAACATGTGATG
7648 I           A    GTTATTCTCTGCGTTCAACCTGCCTATTGCCTCCTA
7648 P    C      A    CGCGCCGAGGCCCCCTCCTTTCCTCC
7648 P    T      A    CGCGCCGAGGTCCCCTCCTTTCCTCCTY
7648 T    C      A    GCCTAGGAGGAAAGGAGGGGGAGGAGGCAATAGGCAGGTTGAACGCAGAGAATAACGT
7648 T    T      A    GCCTAGGAGGAAAGGAGGGGAAGGAGGCAATAGGCAGGTTGAACGCAGAGAATAACGT

7648 IS   [CT]          TCACTCAAGACATACGTTATTCTCTGCGTTCAACCTGCCTATTGCCTCCT[CT]CCCCTCCTTTCCTCCTAGGCAAAACTCTTTTCATACCTGCTCCATACTGC
7653 I           A    TGGCAGGGGCCTGGAAGTGATGTGCT
7653 P    INS    A    CGCGCCGAGGCCTGGAGCGTCATGTG
7653 P    DEL    A    CGCGCCGAGGCTGGAGCGTCATGTGG
7653 T    INS    A    GGGCCCACATGACGCTCCAGGGCACATCACTTCCAGGCCCCTGCCACT
7653 T    DEL    A    GGGCCCACATGACGCTCCAGGCACATCACTTCCAGGCCCCTGCCACT

7653 IS   [-C]          CCTTCAGAGGCCAAGTCCTGCCAGTGGCAGGGGCCTGGAAGTGATGTGCC[-
                       C]TGGAGCGTCATGTGGGCCCCATCACTGGCCCCTACTGGGACCAGTCTGCA
7659 I           S    GGACCGACAGGTGAAGTCTCTCAACCCAAGGAGT
7659 P    T      S    CGCGCCGAGGACTACCCAGAGTGGCAT
7659 P    G      S    CGCGCCGAGGCCTACCCAGAGTGGCAT
7659 T    T      S    GGTCATGCCACTCTGGGTAGTCTCCTTGGGTTGAGAGACTTCACCTGTCGGTCCCA
7659 T    G      S    GGTCATGCCACTCTGGGTAGGCTCCTTGGGTTGAGAGACTTCACCTGTCGGTCCCA

7659 IS   [TG]          GGGGTGGCGGGGGGCCTGGACTTTAGGGCTGGTCATGCCACTCTGGGTAG[TG]CTCCTTGGGTTGAGAGACTTCACCTGTCGGTCCCAGGTCCCTCCTTT
                       GTA
7736 I           A    TGGCCAGAGCTCTGGGAGCGGGRAT
7736 P    G      A    CGCGCCGAGGGGGAGGCGCCGC
7736 P    A      A    CGCGCCGAGGAGGAGGCGCCGC
7736 T    G      A    GGTGGCGGCGCCTCCCTYCCCGCTCCCAGAGCTCTGGCCAGC
7736 T    A      A    GGTGGCGGCGCCTCCTTYCCCGCTCCCAGAGCTCTGGCCAGC

7736 IS   [GA]          TCCACCCGGGTGTAGATTTCCCGCGGACCCCTTCGCCCTCCCGGGTTTCATCAGCTGCGCAGGAATGGAGCTGGCCAGAGCTCTGGGAGCGGGRA[GA]G
                       GAGGCGCCGCCACCAGAGGGCGCCGGAGCCCCAGCGCTGCGGCCGGTGAGCGGCCAGGCTCCCCGGCCCAGCCCAGCAAAGGCCTGGGGACGCCCGA
                       CG
14475 I          S    CGCATGCCTGCTACATGCTGGTGCTTTTCATAGTTA
14475 P    A     S    CGCGCCGAGGTGTCATTTGCTTTTCTCGACAY
14475 P    G     S    CGCGCCGAGGCGTCATTTGCTTTTCTCGACY
14475 T    A     S    GAGTTGTCGAGAAAAGCAAATGACAAACTATGAAAAGCACCAGCATGTAGCAGGCATGCGAT
14475 T    G     S    GAGTTGTCGAGAAAAGCAAATGACGAACTATGAAAAGCACCAGCATGTAGCAGGCATGCGAT

14475 IS   [AG]          CCGGAGTTGAGAATCACTGCCCTAGAGAGTTGTCGAGAAAAGCAAATGAC[AG]AACTATGAAAAGCACCAGCATGTAGCAGGCATGCGATCCATGCTCATTC
                       C
14480 I          A    GGAGAGAGTAAGGACAGTAGGGGGCTACTGAGGAAAT
14480 P    c     A    CGCGCCGAGGCGTGAGAGCTATTTTGTTTCCTY
14480 P    g     A    CGCGCCGAGGGGTGAGAGCTATTTTGTTTCCTY
14480 T    c     A    ATAGAGGAAACAAAATAGCTCTCACGTTTCCTCAGTAGCCCCCTACTGTCCTTACTCTCTCCTG
14480 T    g     A    ATAGAGGAAACAAAATAGCTCTCACCTTTCCTCAGTAGCCCCCTACTGTCCTTACTCTCTCCTG

14480 IS   [CG]          ATTCAACCCCTGCAGGAGAGAGTAAGGACAGTAGGGGGCTACTGAGGAAA[CG]GTGAGAGCTATTTTGTTTCCTCTATAATCCCATGATCACATTCAATGTA
                       G
14729 I          S    GCAGGGCCCAGGCAAGGCATGCT
14729 P    G     S    CGCGCCGAGGCCCCTCCCTGCTGGY
14729 P    T     S    CGCGCCGAGGACCCTCCCTGCTGGY
14729 T    G     S    AGGCCCAGCAGGGAGGGGGCATGCCTTGCCTGGGCCCTGCAT
14729 T    T     S    AGGCCCAGCAGGGAGGGTGCATGCCTTGCCTGGGCCCTGCAT

14729 IS   [GT]          CAGTGCTGGGGTTTGCAGGGTGGGGGAGGGCACAGGCCCAGCAGGGAGGG[GT]GCATGCCTTGCCTGGGCCCTGCATCCCCTCTGTCTAGGAGGGAATA
                       GTGA
14757 I          A    ACATCATCGGTAAACAGCCCAGGACTAGACACACAGTAAGT
14757 P    C     A    CGCGCCGAGGCACTAGGCAAAGAACACTGC
14757 P    A     A    CGCGCCGAGGAACTAGGCAAAGAACACTGC
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FIGURE 129E

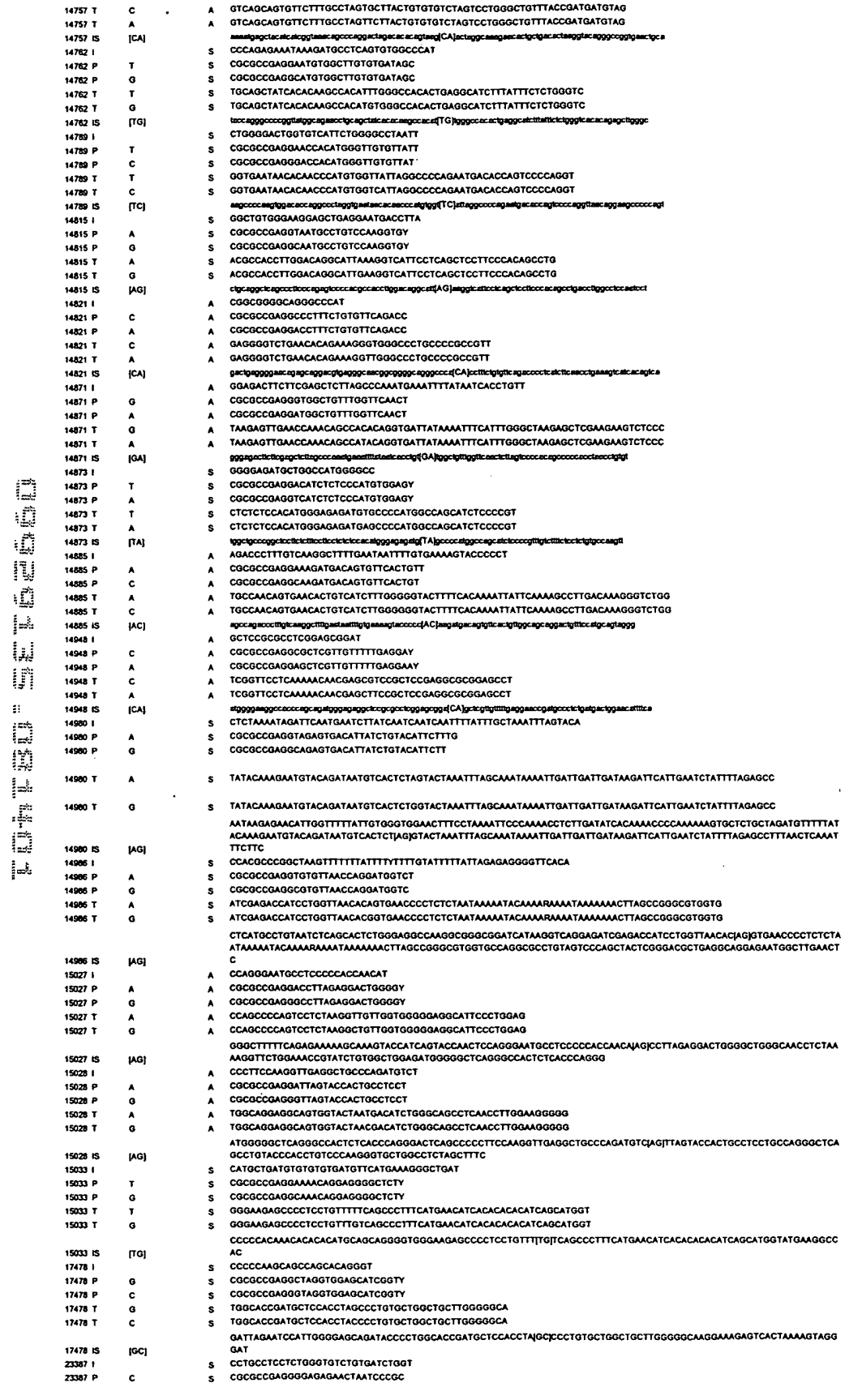




FIGURE 129E

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23387 P   G      S  CGCGCCGAGGCGAGAGAACTAATCCCGC
23387 T   C      S  AGTGGCGGGATTAGTTCTCTCCCCAGATCACAGACACCCAGAGGAGGCAGGTG
23387 T   G      S  AGTGGCGGGATTAGTTCTCTCGCCAGATCACAGACACCCAGAGGAGGCAGGTG
                    CCAGCCATTATTTCACTTGGAATTCTCACAGTGGCGGGATTAGTTCTCT[CG]CCAGATCACAGACACCCAGAGGAGGCAGGTGACTTGAGGCAGCTGCAA
23387 IS  [CG]        GC
23389 I            S  CTTGGGCCTCAGTTGCCCCCGAAGAAAAATT
23389 P   T      S  CGCGCCGAGGAGAATTAAACTTGGCCTTTCTGA
23389 P   C      S  CGCGCCGAGGGGAATTAAACTTGGCCTTTCTGY
23389 T   T      S  GCCTTCAGAAAGGCCAAGTTTAATTCTATTTTTCTTCGGGGGCAACTGAGGCCCAAGAA
23389 T   C      S  GCCTTCAGAAAGGCCAAGTTTAATTCCATTTTTCTTCGGGGGCAACTGAGGCCCAAGAA

23389 IS  [TC]       AAGAAATAATCCAATTCTACTCTTGCCTTCAGAAAGGCCAAGTTTAATTC[TC]ATTTTTCTTCGGGGGCAACTGAGGCCCAAGAAATCAAGAAGAGCCAGGCA
23397 I            S  GATACATCTATAGACTCAGAAATGAAATGTAGCCTTTGTCTTTCCTTTGCA
23397 P   G      S  CGCGCCGAGGCCCTAAAGTTAACATCTGCATGG
23397 P   A      S  CGCGCCGAGGTCCTAAAGTTAACATCTGCATGG
23397 T   G      S  TCCCCCATGCAGATGTTAACTTTAGGGGCAAAGGAAAGACAAAGGCTACATTTCATTTCTGAGTCTATAGATGTATC
23397 T   A      S  TCCCCCATGCAGATGTTAACTTTAGGAGCAAAGGAAAGACAAAGGCTACATTTCATTTCTGAGTCTATAGATGTATC

23397 IS  [GA]       AAAATGCTTTTATTTTCTTGGAGTTCCCCCATGCAGATGTTAACTTTAGG[GA]GCAAAGGAAAGACAAAGGCTACATTTCATTTCTGAGTCTATAGATGTATC
23398 I            S  GCGGCACCAGACTCACCAGGCCGA
23398 P   G      S  CGCGCCGAGGCGCTCCCATCGCCT
23398 P   A      S  CGCGCCGAGGTGCTCCCATCGCCT
23398 T   G      S  CCCCAGGCGATGGGAGCGCGGCCTGGTGAGTCTGGTGCCGCTG
23398 T   A      S  CCCCAGGCGATGGGAGCACGGCCTGGTGAGTCTGGTGCCGCTG

23398 IS  [GA]       GTTGAGTTGAACTTGGGGCCCCTAGTGAGGAGGCCCCAGGCGATGGGAGC[GA]CGGCCTGGTGAGTCTGGTGCCGCTGCCTCCCCACTGGCCCTGCACC
                    AGGT                                                                                                  FLJ21588
23404 I            A  GGTGTTGCATGAGGTGATGGTGATGTCATGTTAGCAGA
23404 P   C      A  CGCGCCGAGGCACTGCTTCTCAGAAGTTGTT
23404 P   T      A  CGCGCCGAGGTACTGCTTCTCAGAAGTTGTTC
23404 T   C      A  AGCTGAACAACTTCTGAGAAGCAGTGCTGCTAACATGACATCACCATCACCTCATGCAACACCAG
23404 T   T      A  AGCTGAACAACTTCTGAGAAGCAGTACTGCTAACATGACATCACCATCACCTCATGCAACACCAG

23404 IS  [CT]       TCGACCTCCAGCTGGTGTTGCATGAGGTGATGGTGATGTCATGTTAGCAG[CT]ACTGCTTCTCAGAAGTTGTTCAGCTTCCCATGGTTTCCATAGAGAGTCT
                    A
23422 I            A  AGAAGAAAGCATATAGTGTGCAGATACCAGGGTCAACTTGGAC
23422 P   T      A  CGCGCCGAGGTCTATGCTCATGGTTTGCAAA
23422 P   A      A  CGCGCCGAGGACTATGCTCATGGTTTGCAA
23422 T   T      A  CCTTTTTGCAAACCATGAGCATAGATCCAAGTTGACCCTGGTATCTGCACACTATATGCTTTCTTCTTA
23422 T   A      A  CCTTTTTGCAAACCATGAGCATAGTTCCAAGTTGACCCTGGTATCTGCACACTATATGCTTTCTTCTTA

23422 IS  [TA]       ACTCTCTAAGAAGAAAGCATATAGTGTGCAGATACCAGGGTCAACTTGGA[TA]CTATGCTCATGGTTTGCAAAAAGGAAAACAGAAAAAATAAAGAAGACAAA
23444 I            S  TCTTTGCAAACCTGATAGATGGAAAATAGAATTTTGAGGCTTTAATTTACT
23444 P   T      S  CGCGCCGAGGATTTCTCTAATTGTGTCAAGCTGA
23444 P   C      S  CGCGCCGAGGGTTTCTCTAATTGTGTCAAGCTG
23444 T   T      S  ATGCTCAGCTTGACACAATTAGAGAAATGTAAATTAAAGCCTCAAAATTCTATTTTCCATCTATCAGGTTTGCAAAGA
23444 T   C      S  ATGCTCAGCTTGACACAATTAGAGAAACGTAAATTAAAGCCTCAAAATTCTATTTTCCATCTATCAGGTTTGCAAAGA

23444 IS  [TC]       AAGTGGTTTTAGAACACAAAAACATGCTCAGCTTGACACAATTAGAGAAA[TC]GTAAATTAAAGCCTCAAAATTCTATTTTCCATCTATCAGGTTTGCAAAGA
23449 I            A  GGTGGCTGGCTTCTCAGGAGCAGCTT
23449 P   G      A  CGCGCCGAGGGTCAAGGCAGGGATGTG
23449 P   C      A  CGCGCCGAGGCTCAAGGCAGGGATGTG
23449 T   G      A  CCCCCACATCCCTGCCTTGACAGCTGCTCCTGAGAAGCCAGCCACCCC
23449 T   C      A  CCCCCACATCCCTGCCTTGAGAGCTGCTCCTGAGAAGCCAGCCACCCC

23449 IS  [GC]       CTGGGAAGATCCAGATGAGAGCCGGGGTGGCTGGCTTCTCAGGAGCAGCT[GC]TCAAGGCAGGGATGTGGGGGGCTTGGCAGCTATCCAGGAAGTAGAA
                    CTGA
23450 I            A  CATTTTGCTGTAATTACTTCAGGTTGGAAAAGAGAATTCTACTAAACACAA
23450 P   C      A  CGCGCCGAGGCCCCTCAATCTCCACCC
23450 P   T      A  CGCGCCGAGGTCCCTCAATCTCCACCC
23450 T   C      A  ATGTGGGTGGAGATTGAGGGGTGTGTTTAGTAGAATTCTCTTTTCCAACCTGAAGTAATTACAGCAAAATG
23450 T   T      A  ATGTGGGTGGAGATTGAGGGATGTGTTTAGTAGAATTCTCTTTTCCAACCTGAAGTAATTACAGCAAAATG

23450 IS  [CT]       CATTTTGCTGTAATTACTTCAGGTTGGAAAAGAGAATTCTACTAAACACA[CT]CCCTCAATCTCCACCCACATTGTGACTCATGTCAGAGAAGATGGGATCCA
23465 I            S  TCCTGCTTATTGGGTCTTCAAGTGCAAACAACGTAATAAGCAA
23465 P   A      S  CGCGCCGAGGTTTACATCCTAACAACTTAGCAGC
23465 P   G      S  CGCGCCGAGGCTTACATCCTAACAACTTAGCAGC
23465 T   A      S  AATGGCTGCTAAGTTGTTAGGATGTAAATGCTTATTACGTTGTTTGCACTTGAAGACCCAATAAGCAGGACT
23465 T   G      S  AATGGCTGCTAAGTTGTTAGGATGTAAGTGCTTATTACGTTGTTTGCACTTGAAGACCCAATAAGCAGGACT

23465 IS  [AG]       ACTTGTGTGTATTATTTTTTTCAAATGGCTGCTAAGTTGTTAGGATGTAA[AG]TGCTTATTACGTTGTTTGCACTTGAAGACCCAATAAGCAGGACTGGCAGA
23479 I            S  GTTTCGCTCCCCAGATGGAAAGCCCGTGC
23479 P   INS      S  CGCGCCGAGGTCCTCTGTCACCGCTG
23479 P   DEL      S  CGCGCCGAGGTCTCTGTCACCGCTGG
23479 T   INS      S  ACTCCAGCGGTGACAGAGGACACGGGCTTTCCATCTGGGGAGCGAAACAC
23479 T   DEL      S  GACTCCAGCGGTGACAGAGACACGGGCTTTCCATCTGGGGAGCGAAACAC

23479 IS  [-G]       GGAGGCCGTGTACCTGGGGCTGTGTGCCTGGGACTCCAGCGGTGACAGAG[-
                    G]ACACGGGCTTTCCATCTGGGGAGCGAAACACCAGGGAAGCTTTAATCTGG
23485 I            S  CGCCCGGCCAATTCATTTGTTAACTATTCTTAGCACCTTCC
23485 P   C      S  CGCGCCGAGGGCTACAACTGCAATTCCAAG
23485 P   A      S  CGCGCCGAGGTCTACAACTGCAATTCCAAGC
23485 T   C      S  AAAGGCTTGGAATTGCAGTTGTAGCGAAGGTGCTAAGAATAGTTAACAAATGAATTGGCCGGGCGCG
23485 T   A      S  AAAGGCTTGGAATTGCAGTTGTAGAGAAGGTGCTAAGAATAGTTAACAAATGAATTGGCCGGGCGCG

23485 IS  [CA]       ACAAGTTTTGATTTCCTATTAAGAGGAAAGGCTTGGAATTGCAGTTGTAG[CA]GAAGGTGCTAAGAATAGTTAACAAATGAATTGGCCGGGCGCGGTGGCTC
                    A
23493 I            S  TTTTAAGGTTTCAAATGGCAGAATCCACATGAGGTTTTACATCTGTAAAAA
23493 P   G      S  CGCGCCGAGGCAGGAATAAAGAGTGGGCAT
23493 P   A      S  CGCGCCGAGGTAGGAATAAAGAGTGGGCATG
23493 T   G      S  CACACATGCCCACTCTTTATTCCTGTTTTACAGATGTAAAACCTCATGTGGATTCTGCCATTTGAAACCTTAAAA
23493 T   A      S  CACACATGCCCACTCTTTATTCCTATTTTACAGATGTAAAACCTCATGTGGATTCTGCCATTTGAAACCTTAAAA

23493 IS  [GA]       TGACTTGGTGAGGCTCCTGGGTGACACACACATGCCCACTCTTTATTCCT[GA]TTTTACAGATGTAAAACCTCATGTGGATTCTGCCATTTGAAACCTTAAAA
23496 I            A  CCTTCTTCCAGGCCCTGGGGTTTCCTA
23496 P   C      A  CGCGCCGAGGCAGCCACAGAGGAATCCA
23496 P   T      A  CGCGCCGAGGTAGCCACAGAGGAATCCA
23496 T   C      A  GGTGTGGATTCCTCTGTGGCTGAGGAAACCCCAGGGCCTGGAAGAAGGCT
23496 T   T      A  GGTGTGGATTCCTCTGTGGCTAAGGAAACCCCAGGGCCTGGAAGAAGGCT

23496 IS  [CT]       CCACTTCCCTGGCCAGGAGCTGAGCCTTCTTCCAGGCCCTGGGGTTTCCT[CT]AGCCACAGAGGAATCCACACCTGGGGATCATGAGGTCGCTGGGAGGT
                    GGA
23507 I            S  CAGCTCTGAGGTTGCTCAGGAAATCAAAGCTCCTCT
23507 P   C      S  CGCGCCGAGGGTACCATGAGCGTCTCTCT
23507 P   G      S  CGCGCCGAGGCTACCATGAGCGTCTCTCT
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FIGURE 129E

```
23507 T   C     S   CATCAGAGAGACGCTCATGGTACGAGGAGCTTTGATTTCCTGAGCAACCTCAGAGCTGGG
23507 T   G     S   CATCAGAGAGACGCTCATGGTAGGAGGAGCTTTGATTTCCTGAGCAACCTCAGAGCTGGG
                      AGCCTACATGAGGAAGGAACTGATGGTCCATCAGAGAGACGCTCATGGTA[CG]GAGGAGCTTTGATTTCCTGAGCAACCTCAGAGCTGGGGGCAAGGGAG
23507 IS  [CG]        GAG
23515 I         A   AAGATATGTGTTTGATTAATAACAGTCCTGATTTAAAACAACAGCACTGTT
23515 P   G     A   CGCGCCGAGGGTTTTGAGCCTTCACTCAGTAT
23515 P   C     A   CGCGCCGAGGCTTTTGAGCCTTCACTCAGTAT
23515 T   G     A   TTGCATACTGAGTGAAGGCTCAAAACACAGTGCTGTTGTTTTAAATCAGGACTGTTATTAATCAAACACATATCTT
23515 T   C     A   TTGCATACTGAGTGAAGGCTCAAAAGACAGTGCTGTTGTTTTAAATCAGGACTGTTATTAATCAAACACATATCTT

23515 IS  [GC]        AAGATATGTGTTTGATTAATAACAGTCCTGATTTAAAACAACAGCACTGT[GC]TTTGAGCCTTCACTCAGTATGCAACTCCTTTATACAGATTTTATTTTAA
23516 I         A   GGGTAAGCATCTGACTCGGGGTGGAAGAATGAGAA
23516 P   T     A   CGCGCCGAGGTACTCTTCCCTGAGAGTTTGAA
23516 P   C     A   CGCGCCGAGGCACTCTTCCCTGAGAGTTTG
23516 T   T     A   CAGTTTCAAACTCTCAGGGAAGAGTATCTCATTCTTCCACCCCGAGTCAGATGCTTACCCCA
23516 T   C     A   CAGTTTCAAACTCTCAGGGAAGAGTGTCTCATTCTTCCACCCCGAGTCAGATGCTTACCCCA
                      TTGGTCACAGTTGATGGGGTAAGCATCTGACTCGGGGTGGAAGAATGAGA[TC]ACTCTTCCCTGAGAGTTTGAAACTGATGAGTGAGTCATGCAGTTTCTTT
23516 IS  [TC]        C
23522 I         A   GCCGGAACGCTTCGCTCCAGCTACCA
23522 P   C     A   CGCGCCGAGGCGGCCTCCCGCA
23522 P   T     A   CGCGCCGAGGTGGCCTCCCGCAA
23522 T   C     A   CCTCTTGCGGGAGGCCGGGTAGCTGGAGCGAAGCGTTCCGGCTG
23522 T   T     A   CCTCTTGCGGGAGGCCAGGTAGCTGGAGCGAAGCGTTCCGGCTG
                      TCCACTCCACCCAGCAGCAAGGGCAGCCGGAACGCTTCGCTCCAGCTACC[CT]GGCCTCCCGCAAGAGGGTTCCCCCATGAGACCGTTAGTCTCTCTTTG
23522 IS  [CT]        CCT                                                                                                    CBX6
23529 I         A   CCCACACAGGAAGAGGAAAGGAAGAGCTGAAGCT
23529 P   A     A   CGCGCCGAGGACTAGCTGGAGCACGT
23529 P   G     A   CGCGCCGAGGGCTAGCTGGAGCACGT
23529 T   A     A   TGAGACGTGCTCCAGCTAGTGCTTCAGCTCTTCCTTTCCTCTTCCTGTGTGGGCT
23529 T   G     A   TGAGACGTGCTCCAGCTAGCGCTTCAGCTCTTCCTTTCCTCTTCCTGTGTGGGCT
                      ATCAAGAGTAGGAGAAGCCCACACAGGAAGAGGAAAGGAAGAGCTGAAGC[AG]CTAGCTGGAGCACGTCTCACAGAAATGGGAGGGAGGGAATGACGAGT
23529 IS  [AG]        GGT
23533 I         A   CCATACAAATCACAGAGACATACTGTGCCACTGGACCTCT
23533 P   A     A   CGCGCCGAGGACAAGATAAGTTTAAGCAGCAATTTT
23533 P   G     A   CGCGCCGAGGGCAAGATAAGTTTAAGCAGCAATT
23533 T   A     A   ATCTAAAATTGCTGCTTAAACTTATCTTGTGAGGTCCAGTGGCACAGTATGTCTCTGTGATTTGTATGGAA
23533 T   G     A   ATCTAAAATTGCTGCTTAAACTTATCTTGCGAGGTCCAGTGGCACAGTATGTCTCTGTGATTTGTATGGAA

23533 IS  [AG]        CCTAGAAGTTTCCATACAAATCACAGAGACATACTGTGCCACTGGACCTC[AG]CAAGATAAGTTTAAGCAGCAATTTTAGATAATAGGGCCACACCATATTGA
23540 I         S   CTGCCAGCTGTTAAAACTAGGTGGTTGTCCCTGAATT
23540 P   G     S   CGCGCCGAGGCATGCTTTCTGCCTCTCTG
23540 P   C     S   CGCGCCGAGGGATGCTTTCTGCCTCTCTG
23540 T   G     S   AATACAGAGAGGCAGAAAGCATGATTCAGGGACAACCACCTAGTTTTAACAGCTGGCAGCA
23540 T   C     S   AATACAGAGAGGCAGAAAGCATCATTCAGGGACAACCACCTAGTTTTAACAGCTGGCAGCA

23540 IS  [GC]        TCTCACCTGTTACTGTGAAAAAGTTTAAAATACAGAGAGGCAGAAAGCAT[GC]ATTCAGGGACAACCACCTAGTTTTAACAGCTGGCAGCATTTGCTGTGTTT
23541 I         A   GCACACCAGTAGGATATGTGATCAAAACAGTCTGAAGACA
23541 P   C     A   CGCGCCGAGGCGTTGCTCTGGTAGAAGGAY
23541 P   T     A   CGCGCCGAGGTGTTGCTCTGGTAGAAGGAY
23541 T   C     A   AGATTCCTTCTACCAGAGCAACGGTCTTCAGACTGTTTTGATCACATATCCTACTGGTGTGCAA
23541 T   T     A   AGATTCCTTCTACCAGAGCAACAGTCTTCAGACTGTTTTGATCACATATCCTACTGGTGTGCAA
                      TGATAAAAATTGCACACCAGTAGGATATGTGATCAAAACAGTCTGAAGAC[CT]GTTGCTCTGGTAGAAGGAATCTAGGTTTTGCAGTGAGGTTGGGCTAGGG
23541 IS  [CT]        T
23542 I         S   CCCCATAGATGGCTGATGCTTGGCTGAGCTGT
23542 P   G     S   CGCGCCGAGGCAGATCGTTGTCCTTCAGAATC
23542 P   C     S   CGCGCCGAGGGAGATCGTTGTCCTTCAGAATC
23542 T   G     S   TCATGATTCTGAAGGACAACGATCTGCAGCTCAGCCAAGCATCAGCCATCTATGGGGTA
23542 T   C     S   TCATGATTCTGAAGGACAACGATCTCCAGCTCAGCCAAGCATCAGCCATCTATGGGGTA
                      GTGGCAGCTGGCCAACAGCATCTCTTCATGATTCTGAAGGACAACGATCT[GC]CAGCTCAGCCAAGCATCAGCCATCTATGGGGTAGGATGCAAGAATTCA
23542 IS  [GC]        GC
23546 I         S   CCCTGCTCAGAATCTGATACCAAAGAGACAGGGCCA
23546 P   G     S   CGCGCCGAGGCGGGCCCAGGCAY
23546 P   A     S   CGCGCCGAGGTGGGCCCAGGCAGY
23546 T   G     S   CTCTCTGCCTGGGCCCGGGCCCTGTCTCTTTGGTATCAGATTCTGAGCAGGGGA
23546 T   A     S   CTCTCTGCCTGGGCCCAGGCCCTGTCTCTTTGGTATCAGATTCTGAGCAGGGGA
                      TTTGGCAAGAGAGGGCTGAGGAGCCTGCTGGTCGCTCTCTGCCTGGGCCC[GA]GGCCCTGTCTCTTTGGTATCAGATTCTGAGCAGGGGAGGGAGCTGG
23546 IS  [GA]        AAGG
23550 I         A   GAAAGCAATCAGGGTAAGGTTTGAGTTCATTTGGGAACAGTTTTTCTTCT
23550 P   G     A   CGCGCCGAGGGCCACGGGACTTTGTG
23550 P   A     A   CGCGCCGAGGACCACGGGACTTTGTGT
23550 T   G     A   AACAACACAAAGTCCCGTGGCGAAGAAAAACTGTTCCCAAATGAACTCAAACCTTACCCTGATTGCTTTCA
23550 T   A     A   AACAACACAAAGTCCCGTGGTGAAGAAAAACTGTTCCCAAATGAACTCAAACCTTACCCTGATTGCTTTCA

23550 IS  [GA]        TGAAAGCAATCAGGGTAAGGTTTGAGTTCATTTGGGAACAGTTTTTCTTC[GA]CCACGGGACTTTGTGTTGTTTTTCCTTGTGTTTAATCTATCAGACATGAC
23854 I         A   GCATCAGAGTTTTTCTCACCTGAGAGATAAGAAGGCACTATTAGGAAGGT
23854 P   A     A   CGCGCCGAGGATCTCTTACTTTCAACTCTCAACAAT
23854 P   G     A   CGCGCCGAGGGTCTCTTACTTTCAACTCTCAACA
23854 T   A     A   AAAAATTGTTGAGAGTTGAAAGTAAGAGATCCTTCCTAATAGTGCCTTCTTATCTCTCAGGTGAGAAAAACTCTGATGCAA
23854 T   G     A   AAAAATTGTTGAGAGTTGAAAGTAAGAGACCCTTCCTAATAGTGCCTTCTTATCTCTCAGGTGAGAAAAACTCTGATGCAA
                      CTGCCTAAATGTGAATTATTTCAGTTATATAATTGCATCAGAGTTTTTCTCACCTGAGAGATAAGAAGGCACTATTAGGAAGG[AG]TCTCTTACTTTCAACTCT
                      CAACAATTTTTAATTAAAAGTGTATTTTCCCTTCATGATATATAAATTTTAAAATCAGATTAGAAAATCATATTTAGAGTATGATCTGCTTTGTAAAATTAAACCA
23854 IS  [AG]        AAAATA
23856 I         A   TGCACTGTAATTAAAACCSAAGCTCTTTGGTTTTTGTCTGGCACAT
23856 P   C     A   CGCGCCGAGGCGCATAGAGCTCAGTTTCTG
23856 P   A     A   CGCGCCGAGGAGCATAGAGCTCAGTTTCTGT
23856 T   C     A   GCATACAGAAACTGAGCTCTATGCGTGTGCCAGACAAAAACCAAAGAGCTTSGGTTTTAATTACAGTGCATT
23856 T   A     A   GCATACAGAAACTGAGCTCTATGCTTGTGCCAGACAAAAACCAAAGAGCTTSGGTTTTAATTACAGTGCATT
                      CAGAACCTGTTGAGGGTAATAAGAGTAATGCACTGTAATTAAAACCSAAGCTCTTTGGTTTTTGTCTGGCACA[CA]GCATAGAGCTCAGTTTCTGTATGCACC
                      TAATAGGACCATGTCATGGCAATGACATTGTCTGCTTAGAAATCCATTGCTTATATTTTTGTTATTTCTCAACATTATTTAGATTCAGTCTGATCACATAAAGTT
23856 IS  [CA]        CTTGC
23857 I         A   TGAGAATTATGTTTTCATGATGGAACTATAGCGTAATCATTGTCAGTTACTAATTACT
23857 P   C     A   CGCGCCGAGGCATCTTGAGACAGAGTCAGTG
23857 P   A     A   CGCGCCGAGGAATCTTGAGACAGAGTCAGTG
23857 T   C     A   GCCCCACTGACTCTGTCTCAAGATGGTAATTAGTAACTGACAATGATTACGCTATAGTTCCATCATGAAAACATAATTCTCATG
23857 T   A     A   GCCCCACTGACTCTGTCTCAAGATTGTAATTAGTAACTGACAATGATTACGCTATAGTTCCATCATGAAAACATAATTCTCATG
                      CCTGGCATGAGAATTATGTTTTCATGATGGAACTATAGCGTAATCATTGTCAGTTACTAATTAC[CA]ATCTTGAGACAGAGTCAGTGGGGCCAAAAAAGAAAG
23857 IS  [CA]        AAAGGGAGAGGAGAGAGAGAGAAAGGGGGA
23867 I         A   ACTTCCAGTGGCAATAGGAGCTTTCTCAGTGTACTGCT
23867 P   C     A   CGCGCCGAGGCGGCTTTGCTGACAGACY
```

FIGURE 129E

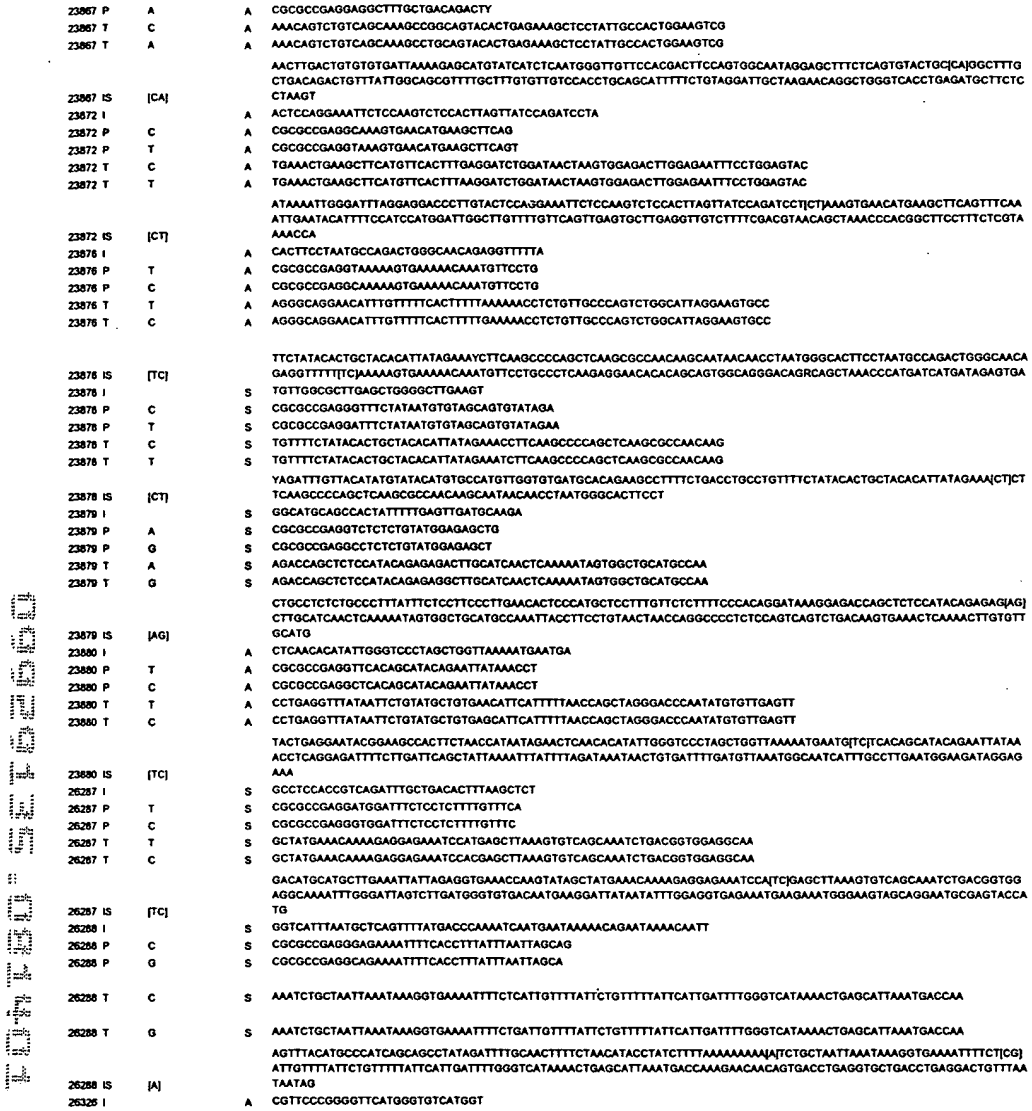

23867 P A A CGCGCCGAGGAGGCTTTGCTGACAGACTY
23867 T C A AAACAGTCTGTCAGCAAAGCCGGCAGTACACTGAGAAAGCTCCTATTGCCACTGGAAGTCG
23867 T A A AAACAGTCTGTCAGCAAAGCCTGCAGTACACTGAGAAAGCTCCTATTGCCACTGGAAGTCG
AACTTGACTGTGTGTGATTAAAAGAGCATGTATCATCTCAATGGGTTGTTCCACGACTTCCAGTGGCAATAGGAGCTTTCTCAGTGTACTGC[CA]GGCTTTG
CTGACAGACTGTTTATTGGCAGCGTTTTGCTTTGTGTTGTCCACCTGCAGCATTTTTCTGTAGGATTGCTAAGAACAGGCTGGGTCACCTGAGATGCTTCTC
23867 IS [CA] CTAAGT
23872 I A ACTCCAGGAAATTCTCCAAGTCTCCACTTAGTTATCCAGATCCTA
23872 P C A CGCGCCGAGGCAAAGTGAACATGAAGCTTCAG
23872 P T A CGCGCCGAGGTAAAGTGAACATGAAGCTTCAGT
23872 T C A TGAAACTGAAGCTTCATGTTCACTTTGAGGATCTGGATAACTAAGTGGAGACTTGGAGAATTTCCTGGAGTAC
23872 T T A TGAAACTGAAGCTTCATGTTCACTTTAAGGATCTGGATAACTAAGTGGAGACTTGGAGAATTTCCTGGAGTAC
ATAAAATTGGGATTTAGGAGGACCCTTGTACTCCAGGAAATTCTCCAAGTCTCCACTTAGTTATCCAGATCCT[CT]AAAGTGAACATGAAGCTTCAGTTTCAA
ATTGAATACATTTTCCATCCATGGATTGGCTTGTTTTGTTCAGTTGAGTGCTTGAGGTTGTCTTTTCGACGTAACAGCTAAACCCACGGCTTCCTTTCTCGTA
23872 IS [CT] AAACCA
23876 I A CACTTCCTAATGCCAGACTGGGCAACAGAGGTTTTTA
23876 P T A CGCGCCGAGGTAAAAAGTGAAAAACAAATGTTCCTG
23876 P C A CGCGCCGAGGCAAAAAGTGAAAAACAAATGTTCCTG
23876 T T A AGGGCAGGAACATTTGTTTTTCACTTTTTAAAAAACCTCTGTTGCCCAGTCTGGCATTAGGAAGTGCC
23876 T C A AGGGCAGGAACATTTGTTTTTCACTTTTTGAAAAACCTCTGTTGCCCAGTCTGGCATTAGGAAGTGCC
TTCTATACACTGCTACACATTATAGAAAYCTTCAAGCCCCAGCTCAAGCGCCAACAAGCAATAACAACCTAATGGGCACTTCCTAATGCCAGACTGGGCAACA
23878 IS [TC] GAGGTTTTT[TC]AAAAAGTGAAAAACAAATGTTCCTGCCCTCAAGAGGAACACACAGCAGTGGCAGGGACAGRCAGCTAAACCCATGATCATGATAGAGTGA
23878 I S TGTTGGCGCTTGAGCTGGGGCTTGAAGT
23878 P C S CGCGCCGAGGGTTTCTATAATGTGTAGCAGTGTATAGA
23878 P T S CGCGCCGAGGATTTCTATAATGTGTAGCAGTGTATAGAA
23878 T C S TGTTTTCTATACACTGCTACACATTATAGAAACCTTCAAGCCCCAGCTCAAGCGCCAACAAG
23878 T T S TGTTTTCTATACACTGCTACACATTATAGAAATCTTCAAGCCCCAGCTCAAGCGCCAACAAG
YAGATTTGTTACATATGTATACATGTGCCATGTTGGTGTGATGCACAGAAGCCTTTTCTGACCTGCCTGTTTTCTATACACTGCTACACATTATAGAAA[CT]CT
23878 IS [CT] TCAAGCCCCAGCTCAAGCGCCAACAAGCAATAACAACCTAATGGGCACTTCCT
23879 I S GGCATGCAGCCACTATTTTTGAGTTGATGCAAGA
23879 P A S CGCGCCGAGGTCTCTCTGTATGGAGAAGCTG
23879 P G S CGCGCCGAGGCCTCTCTGTATGGAGAAGCT
23879 T A S AGACCAGCTCTCCATACAGAGAGACTTGCATCAACTCAAAAATAGTGGCTGCATGCCAA
23879 T G S AGACCAGCTCTCCATACAGAGAGGCTTGCATCAACTCAAAAATAGTGGCTGCATGCCAA
CTGCCTCTCTGCCCTTATTTCTCCTTCCCTTGAACACTCCCATGCTCCTTTGTTCTCTTTTCCCACAGGATAAAGGAGACCAGCTCTCCATACAGAGAG[AG]
23879 IS [AG] CTTGCATCAACTCAAAAATAGTGGCTGCATGCCAAATTACCTTCCTGTAACTAACCAGGCCCCTCTCCAGTCAGTCTGACAAGTGAAACTCAAAACTTGTGTT
GCATG
23880 I A CTCAACACATATTGGGTCCCTAGCTGGTTAAAAATGAATGA
23880 P T A CGCGCCGAGGTTCACAGCATACAGAATTATAAACCT
23880 P C A CGCGCCGAGGCTCACAGCATACAGAATTATAAACCT
23880 T T A CCTGAGGTTTATAATTCTGTATGCTGTGAACATTCATTTTTAACCAGCTAGGGACCCAATATGTGTTGAGTT
23880 T C A CCTGAGGTTTATAATTCTGTATGCTGTGAGCATTCATTTTTAACCAGCTAGGGACCCAATATGTGTTGAGTT
TACTGAGGAATACGGAAGCCACTTCTAACCATAATAGAACTCAACACATATTGGGTCCCTAGCTGGTTAAAAATGAATG[TC]TCACAGCATACAGAATTATAA
ACCTCAGGAGATTTTCTTGATTCAGCTATTAAAATTTATTTTAGATAAATAACTGTGATTTTGATGTTAAATGGCAATCATTTGCCTTGAATGGAAGATAGGAG
23880 IS [TC] AAA
26287 I S GCCTCCACCGTCAGATTTGCTGACACTTTAAGCTCT
26287 P T S CGCGCCGAGGATGGATTTCTCCTCTTTTGTTTCA
26287 P C S CGCGCCGAGGGTGGATTTCTCCTCTTTTGTTTC
26287 T T S GCTATGAAACAAAAGAGGAGAAATCCATGAGCTTAAAGTGTCAGCAAATCTGACGGTGGAGGCAA
26287 T C S GCTATGAAACAAAAGAGGAGAAATCCACGAGCTTAAAGTGTCAGCAAATCTGACGGTGGAGGCAA
GACATGCATGCTTGAAATTATTAGAGGTGAAACCAAGTATAGCTATGAAACAAAAGAGGAGAAATCCA[TC]GAGCTTAAAGTGTCAGCAAATCTGACGGTGG
AGGCAAAATTTGGGATTAGTCTTGATGGGTGTGACAATGAAGGATTATAATATTTGGAGGTGAGAAATGAAGAAATGGGAAGTAGCAGGAATGCGAGTACCA
26287 IS [TC] TG
26288 I S GGTCATTTAATGCTCAGTTTTATGACCCAAAATCAATGAATAAAAACAGAATAAAACAATT
26288 P C S CGCGCCGAGGGAGAAAATTTTCACCTTTATTTAATTAGCAG
26288 P G S CGCGCCGAGGCAGAAAATTTTCACCTTTATTTAATTAGCA
26288 T C S AAATCTGCTAATTAAATAAAGGTGAAAATTTTCTCATTGTTTTATTCTGTTTTTATTCATTGATTTTGGGTCATAAAACTGAGCATTAAATGACCAA
26288 T G S AAATCTGCTAATTAAATAAAGGTGAAAATTTTCTGATTGTTTTATTCTGTTTTTATTCATTGATTTTGGGTCATAAAACTGAGCATTAAATGACCAA
AGTTTACATGCCCATCAGCAGCCTATAGATTTTGCAACTTTTCTAACATACCTATCTTTTAAAAAAAAA[A]TCTGCTAATTAAATAAAGGTGAAAATTTTCT[CG]
26288 IS [A] ATTGTTTTATTCTGTTTTTATTCATTGATTTTGGGTCATAAAACTGAGCATTAAATGACCAAAGAACAACAGTGACCTGAGGTGCTGACCTGAGGACTGTTTAA
TAATAG
26326 I A CGTTCCCGGGGTTCATGGGTGTCATGGT
26326 P INS A CGCGCCGAGGGGTGTCATGGGGGACATG
26326 P DEL A CGCGCCGAGGGGGACATGGAGGTCATG
26326 T INS A CCTCCATGTCCCCCATGACACCCATGACACCCATGAACCCCGGGAACGAG
26326 T DEL A CCTCCATGACCTCCATGTCCCCCATGACACCCATGAACCCCGGGAACGAG
CTCAGGTACCTGGAAGGCAGCTCGTTCCCGGGGTTCATGGGTGTCATGGG[-
26326 IS [-TGTCATGGG] TGTCATGGG]GGACATGGAGGTCATGGAGGTCATGGGGGTCACGGGGGTCATGGGATTCAC
26825 I A CTAGAACTCCATTCTAGAATCAGGTACCAGTTCTGAACTGATCTATAAGCT
26825 P A A CGCGCCGAGGAGTAATGTGCGGAAAGATCTG
26825 P C A CGCGCCGAGGCGTAATGTGCGGAAAGATCT
26825 T A A ACAGCAGATCTTTCCGCACATTACTGCTTATAGATCAGTTCAGAACTGGTACCTGATTCTAGAATGGAGTTCTAG
26825 T C A ACAGCAGATCTTTCCGCACATTACGGCTTATAGATCAGTTCAGAACTGGTACCTGATTCTAGAATGGAGTTCTAG
26825 IS [AC] ctagaactccattctagaatc aggtaccagttctgaactgatctatAAGC[AC]gtaatgtgcggaaagatctgctgtgaaggaaaaaaaagtgatgggcgcagt
28841 I A GAAGCTGAACATGGACCCGCCCTCCCT
28841 P A A CGCGCCGAGGATCAGCAATTCCATGCAGAG
28841 P G A CGCGCCGAGGGTCAGCAATTCCATGCAGA
28841 T A A GCTACTCTGCATGGAATTGCTGATGGGAGGGCGGGTCCATGTTCAGCTTCCC
28841 T G A GCTACTCTGCATGGAATTGCTGACGGGAGGGCGGGTCCATGTTCAGCTTCCC
28841 IS [AG] taggagaatgctggccgttctgggaagctgaacatggcccgccctccc[AG]tcagcaattccatgccagagtagctccagtgtgtgccaccacaggagaccaag
28842 I A CCGCTCCTCCCCTCCAGCCCCT
28842 P G A CGCGCCGAGGGCCCTTGCCCCCT
28842 P A A CGCGCCGAGGACCCTTGCCCCCTG
28842 T G A GAGCCAGGGGGCAAGGGCGGGGCTGGAGGGGAGGAGCGGGA
28842 T A A GAGCCAGGGGGCAAGGGTGGGGCTGGAGGGGAGGAGCGGGA
28842 IS [GA] accatgccgcccccccaggtctcccggctcccgctcctcccctccagcccc[GA]cccctgccccctggctctggcagcccttgggaccccccaagcccctgccccg
28848 I A CTCTCCTCGCCCAGGGGGGCTT
28848 P g A CGCGCCGAGGGAGAATGTCTAAACCCGGGGY
28848 P a A CGCGCCGAGGAAGAATGTCTAAACCCGGGTY
28848 T g A AGCCACCCGGGTTTAGACATTCTCAGCCCCCCTGGGCGAGGAGAGCC
28848 T a A AGCCACCCGGGTTTAGACATTCTTAGCCCCCCTGGGCGAGGAGAGCC
ctagaagctggctgggggctgtaccaaaaggtcacccccacagtcccccactccaaggcaggttgatagcagggactcagggtgcccatgggtccaaggactaagtcagtagtcgggggtcccctcaggccgagggtaacgtaggtggtgcctg
28848 IS [ga] ccaggctcttcctcgcccaggggggc[ga]agaatgtctaaacccgggtggctgtgacccctaggcagagcca
4148 I A GGCCCTTTCACAGGCAGAACGGGTCTTC
4148 P G A ATGACGTGGCAGACGCTGAAGCAGCACTTGY
4148 P T A CGCGCCGAGGTCTGAAGCAGCACTTGY
4148 T G A CAGCCAAGTGCTGCTTCAGCAAGACCCGTTCTGCCTGTGAAAGGGCCCC

FIGURE 129E

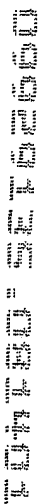


FIGURE 129E

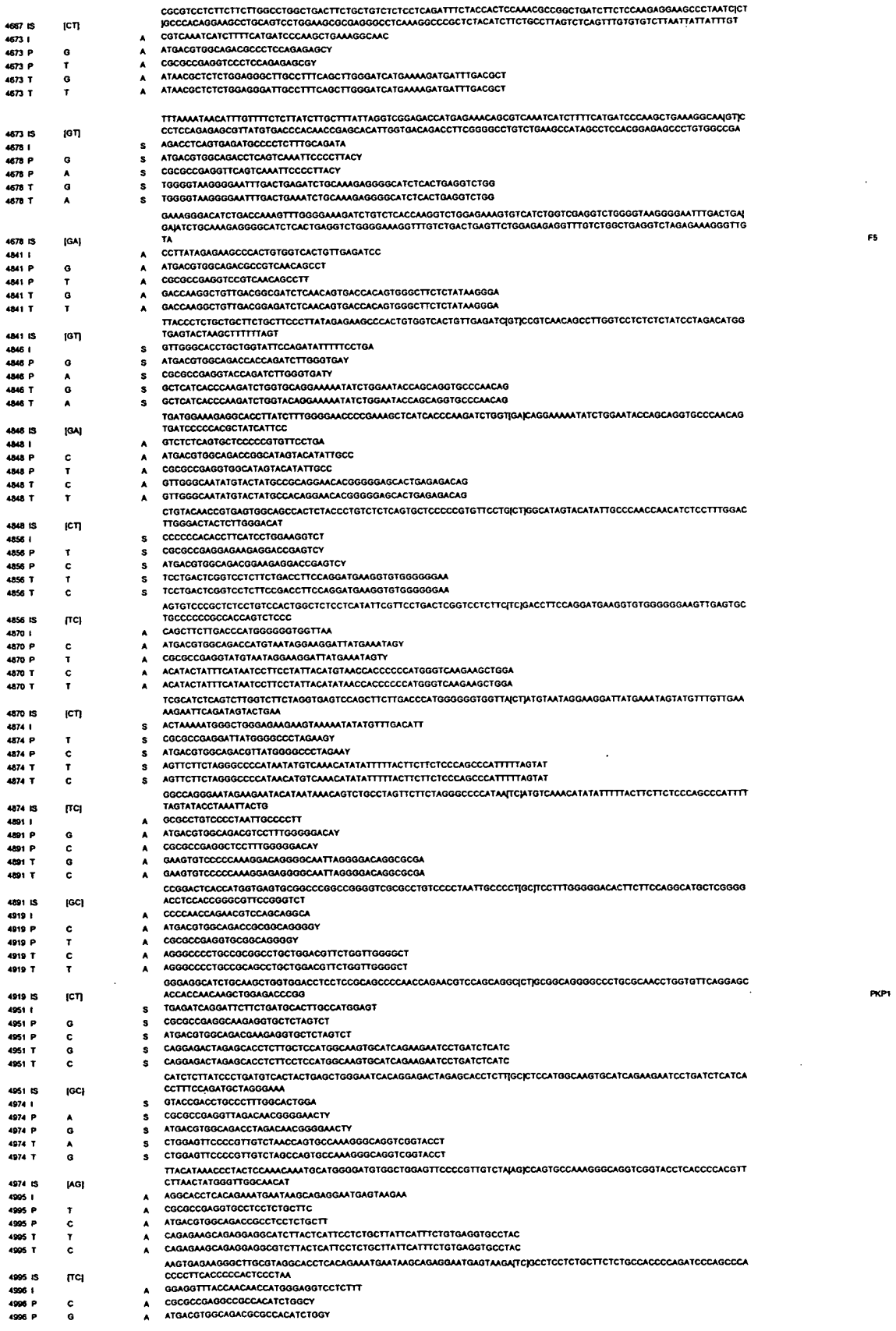
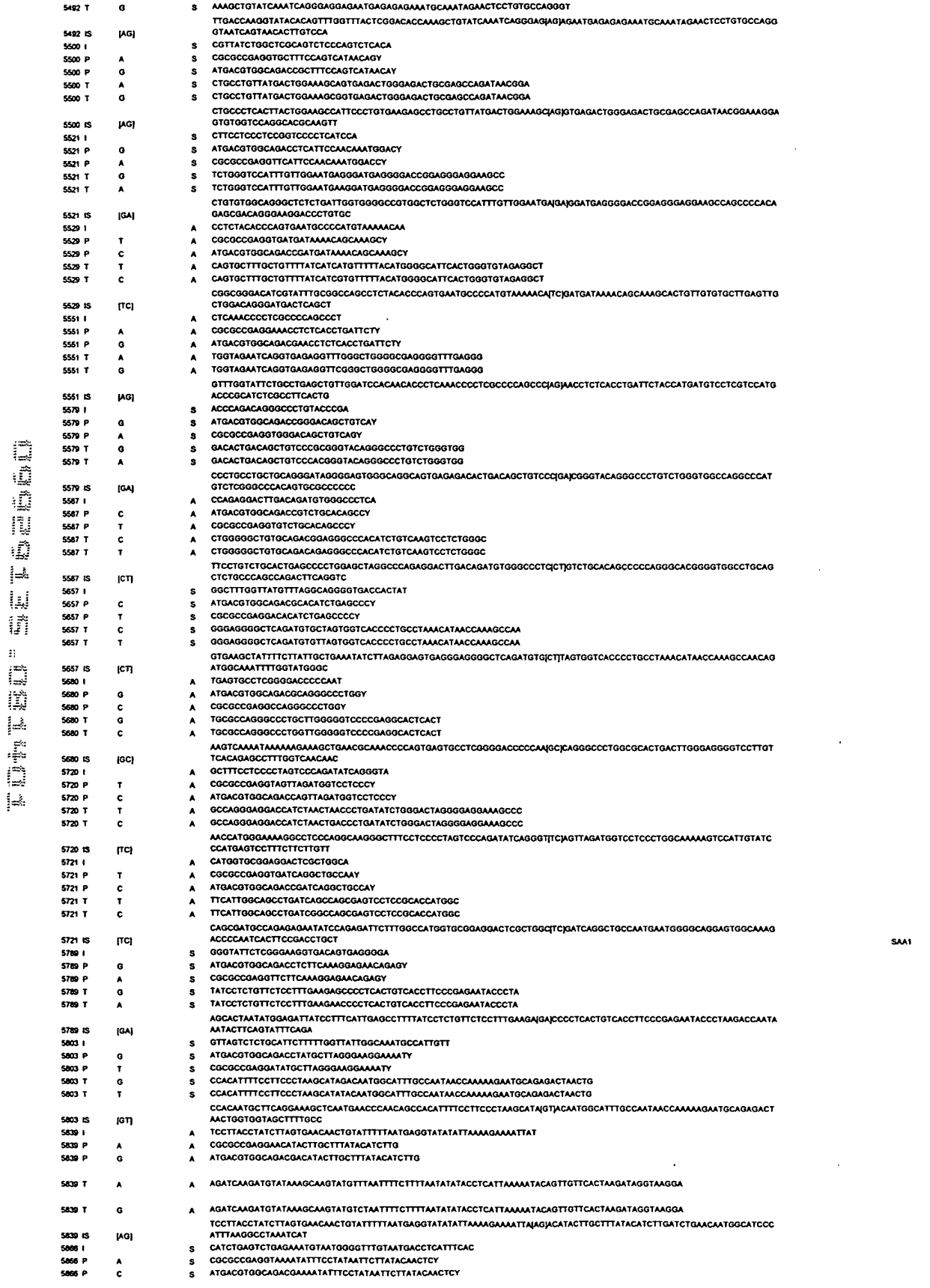

CGCGTCCTCTTCTTCTTGGCCTGGCTGACTTCTGCTGTCTCTCCTCAGATTTCTACCACTCCAAACGCCGGCTGATCTTCTCCAAGAGGAAGCCCTAATC[CT]C
4667 IS [CT] [GCCCACAGGAAGCCTGCAGTCCTGGAAGCGCGAGGGCCTCAAAGGCCCGCTCTACATCTTCTGCCTTAGTCTCAGTTTGTGTGTCTTAATTATTATTTGT
4673 I A CGTCAAATCATCTTTTCATGATCCCAAGCTGAAAGGCAAC
4673 P G A ATGACGTGGCAGACGCCCTCCAGAGAGCY
4673 P T A CGCGCCGAGGTCCCTCCAGAGAGCGY
4673 T G A ATAACGCTCTCTGGAGGGCTTGCCTTTCAGCTTGGGATCATGAAAAGATGATTTGACGCT
4673 T T A ATAACGCTCTCTGGAGGGATTGCCTTTCAGCTTGGGATCATGAAAAGATGATTTGACGCT
TTTAAAATAACATTTGTTTTCTCTTATCTTGCTTTATTAGGTCGGAGACCATGAGAAACAGCGTCAAATCATCTTTTCATGATCCCAAGCTGAAAGGCAA[GT]C
4673 IS [GT] CCTCCAGAGAGCGTTATGTGACCCACAACCGAGCACATTGGTGACAGACCTTCGGGGCCTGTCTGAAGCCATAGCCTCCACGGAGAGCCCTGTGGCCGA
4678 I S AGACCTCAGTGAGATGCCCCTCTTTGCAGATA
4678 P G S ATGACGTGGCAGACCTCAGTCAAATTCCCCTTACY
4678 P A S CGCGCCGAGGTTCAGTCAAATTCCCCTTACY
4678 T G S TGGGGTAAGGGGAATTTGACTGAGATCTGCAAAGAGGGGCATCTCACTGAGGTCTGG
4678 T A S TGGGGTAAGGGGAATTTGACTGAAATCTGCAAAGAGGGGCATCTCACTGAGGTCTGG
GAAAGGGACATCTGACCAAAGTTTGGGGAAAGATCTGTCTCACCAAGGTCTGGAGAAAGTGTCATCTGGTCGAGGTCTGGGGTAAGGGGAATTTGACTGA[
4678 IS [GA] GA]ATCTGCAAAGAGGGGCATCTCACTGAGGTCTGGGGAAAGGTTTGTCTGACTGAGTTCTGGAGAGAGGTTTGTCTGGCTGAGGTCTAGAGAAAGGGTTG F5
TA
4841 I A CCTTATAGAAGCCCACTGTGGTCACTGTTGAGATCC
4841 P G A ATGACGTGGCAGACGCCGTCAACAGCCT
4841 P T A CGCGCCGAGGTCCGTCAACAGCCTT
4841 T G A GACCAAGGCTGTTGACGGCGATCTCAACAGTGACCACAGTGGGCTTCTCTATAAGGGA
4841 T T A GACCAAGGCTGTTGACGGAGATCTCAACAGTGACCACAGTGGGCTTCTCTATAAGGGA
TTACCCTCTGCTGCTTCTGCTTCCCTTATAGAGAAGCCCACTGTGGTCACTGTTGAGATC[GT]CCGTCAACAGCCTTGGTCCTCTCTCTATCCTAGACATGG
4841 IS [GT] TGAGTACTAAGCTTTTTTAGT
4846 I S GTTGGGCACCTGCTGGTATTCCAGATATTTTTCCTGA
4846 P G S ATGACGTGGCAGACCACCAGATCTTGGGTGAY
4846 P A S CGCGCCGAGGTACCAGATCTTGGGTGATY
4846 T G S GCTCATCACCCAAGATCTGGTGCAGGAAAAATATCTGGAATACCAGCAGGTGCCCAACAG
4846 T A S GCTCATCACCCAAGATCTGGTACAGGAAAAATATCTGGAATACCAGCAGGTGCCCAACAG
TGATGGAAAGAGGCACCTTATCTTTGGGGAACCCCGAAAGCTCATCACCCAAGATCTGGT[GA]CAGGAAAAATATCTGGAATACCAGCAGGTGCCCAACAG
4846 IS [GA] TGATCCCCCACGCTATCATTCC
4848 I A GTCTCTCAGTGCTCCCCCGTGTTCCTGA
4848 P C A ATGACGTGGCAGACCGGCATAGTACATATTGCC
4848 P T A CGCGCCGAGGTGGCATAGTACATATTGCC
4848 T C A GTTGGGCAATATGTACTATGCCGCAGGAACACGGGGGAGCACTGAGAGACAG
4848 T T A GTTGGGCAATATGTACTATGCCACAGGAACACGGGGGAGCACTGAGAGACAG
CTGTACAACCGTGAGTGGCAGCCACTCTACCCTGTCTCTCAGTGCTCCCCCGTGTTCCTG[CT]GGCATAGTACATATTGCCCAACCAACATCTCCTTTGGAC
4848 IS [CT] TTGGGACTACTCTTGGGACAT
4856 I S CCCCCCACACCTTCATCCTGGAAGGTCT
4856 P T S CGCGCCGAGGAGAAGAGGACCGAGTCY
4856 P C S ATGACGTGGCAGACGGAAGAGGACCGAGTCY
4856 T T S TCCTGACTCGGTCCTCTTCTGACCTTCCAGGATGAAGGTGTGGGGGGAA
4856 T C S TCCTGACTCGGTCCTCTTCCGACCTTCCAGGATGAAGGTGTGGGGGGAA
AGTGTCCCGCTCTCCTGTCCACTGGCTCTCCTCATATTCGTTCCTGACTCGGTCCTCTTC[TC]GACCTTCCAGGATGAAGGTGTGGGGGGAAGTTGAGTGC
4856 IS [TC] TGCCCCCCGCCACCAGTCTCCC
4870 I A CAGCTTCTTGACCCATGGGGGGTGGTTAA
4870 P C A ATGACGTGGCAGACCATGTAATAGGAAGGATTATGAAATAGY
4870 P T A CGCGCCGAGGTATGTAATAGGAAGGATTATGAAATAGTY
4870 T C A ACATACTATTTCATAATCCTTCCTATTACATGTAACCACCCCCCATGGGTCAAGAAGCTGGA
4870 T T A ACATACTATTTCATAATCCTTCCTATTACATATAACCACCCCCCATGGGTCAAGAAGCTGGA
TCGCATCTCAGTCTTGGTCTTCTAGGTGAGTCCAGCTTCTTGACCCATGGGGGGTGGTTA[CT]ATGTAATAGGAAGGATTATGAAATAGTATGTTTGTTGAA
4870 IS [CT] AAGAATTCAGATAGTACTGAA
4874 I S ACTAAAAATGGGCTGGGAGAAGAAGTAAAAATATATGTTTGACATT
4874 P T S CGCGCCGAGGATTATGGGGCCCTAGAAGY
4874 P C S ATGACGTGGCAGACGTTATGGGGCCCTAGAAY
4874 T T S AGTTCTTCTAGGGCCCCATAATATGTCAAACATATATTTTTACTTCTTCTCCCAGCCCATTTTTAGTAT
4874 T C S AGTTCTTCTAGGGCCCCATAACATGTCAAACATATATTTTTACTTCTTCTCCCAGCCCATTTTTAGTAT
GGCCAGGGAATAGAAGAATACATAATAAACAGTCTGCCTAGTTCTTCTAGGGCCCCATAA[TC]ATGTCAAACATATATTTTTACTTCTTCTCCCAGCCCATTTT
4874 IS [TC] TAGTATACCTAAATTACTG
4891 I A GCGCCTGTCCCCTAATTGCCCCTT
4891 P G A ATGACGTGGCAGACGTCCTTTGGGGGACAY
4891 P C A CGCGCCGAGGCTCCTTTGGGGGACAY
4891 T G A GAAGTGTCCCCCAAAGGACAGGGGCAATTAGGGGACAGGCGCGA
4891 T C A GAAGTGTCCCCCAAAGGAGAGGGGCAATTAGGGGACAGGCGCGA
CCGGACTCACCATGGTGAGTGCGGCCCGGCCGGGGTCGCGCCTGTCCCCTAATTGCCCCT[GC]TCCTTTGGGGGACACTTCTTCCAGGCATGCTCGGGG
4891 IS [GC] ACCTCCACCGGGCGTTCCGGGTCT
4919 I A CCCCAACCAGAACGTCCAGCAGGCA
4919 P C A ATGACGTGGCAGACCGCGCAGGGGY
4919 P T A CGCGCCGAGGTGCGGCAGGGGY
4919 T C A AGGGCCCCTGCCGCGGCCTGCTGGACGTTCTGGTTGGGGCT
4919 T T A AGGGCCCCTGCCGCAGCCTGCTGGACGTTCTGGTTGGGGCT
GGGAGGCATCTGCAAGCTGGTGGACCTCCTCCGCAGCCCCAACCAGAACGTCCAGCAGGC[CT]GCGGCAGGGGCCCTGCGCAACCTGGTGTTCAGGAGC
4919 IS [CT] ACCACCAACAAGCTGGAGACCCGG PKP1
4951 I S TGAGATCAGGATTCTTCTGATGCACTTGCCATGGAGT
4951 P G S CGCGCCGAGGCAAGAGGTGCTCTAGTCT
4951 P C S ATGACGTGGCAGACGAAGAGGTGCTCTAGTCT
4951 T G S CAGGAGACTAGAGCACCTCTTCCTCCATGGCAAGTGCATCAGAAGAATCCTGATCTCATC
4951 T C S CAGGAGACTAGAGCACCTCTTCCTCCATGGCAAGTGCATCAGAAGAATCCTGATCTCATC
CATCTCTTATCCCTGATGTCACTACTGAGCTGGGAATCACAGGAGACTAGAGCACCTCTT[GC]CTCCATGGCAAGTGCATCAGAAGAATCCTGATCTCATCA
4951 IS [GC] CCTTTCCAGATGCTAGGGAAA
4974 I S GTACCGACCTGCCCTTTGGCACTGGA
4974 P A S CGCGCCGAGGTTAGACAACGGGGAACTY
4974 P G S ATGACGTGGCAGACCTAGACAACGGGGAACTY
4974 T A S CTGGAGTTCCCCGTTGTCTAACCAGTGCCAAAGGGCAGGTCGGTACCT
4974 T G S CTGGAGTTCCCCGTTGTCTAGCCAGTGCCAAAGGGCAGGTCGGTACCT
TTACATAAACCCTACTCCAAACAAATGCATGGGGATGTGGCTGGAGTTCCCCGTTGTCTA[AG]CCAGTGCCAAAGGGCAGGTCGGTACCTCACCCCACGTT
4974 IS [AG] CTTAACTATGGGTTGGCAACAT
4995 I A AGGCACCTCACAGAAATGAATAAGCAGAGGAATGAGTAAGAA
4995 P T A CGCGCCGAGGTGCCTCCTCTGCTTC
4995 P C A ATGACGTGGCAGACCGCCTCCTCTGCTT
4995 T T A CAGAGAAGCAGAGGAGGCATCTTACTCATTCCTCTGCTTATTCATTTCTGTGAGGTGCCTAC
4995 T C A CAGAGAAGCAGAGGAGGCGTCTTACTCATTCCTCTGCTTATTCATTTCTGTGAGGTGCCTAC
AAGTGAGAAGGGCTTGCGTAGGCACCTCACAGAAATGAATAAGCAGAGGAATGAGTAAGA[TC]GCCTCCTCTGCTTCTCTGCCACCCCAGATCCCAGCCCA
4995 IS [TC] CCCCTTCACCCCCACTCCCTAA
4996 I A GGAGGTTTACCAACAACCATGGGAGGTCCTCTTT
4996 P C A CGCGCCGAGGCCGCCACATCTGGCY
4996 P G A ATGACGTGGCAGACGCGCCACATCTGGY

FIGURE 129E

4996	T	C	A	GAGAGCCAGATGTGGCGGAAGAGGACCTCCCATGGTTGTTGGTAAACCTCCTT
4996	T	G	A	GAGAGCCAGATGTGGCGCAAGAGGACCTCCCATGGTTGTTGGTAAACCTCCTT
4996	IS	[CG]		ATTCCTGACACTACAGCAAATGCTGAAGGAGGTTTACCAACAACCATGGGAGGTCCTCTT[CG]CGCCACATCTGGCTCTCAAAGCTGAAAATAATTCTGAGG TAGGGGCCTCTGGCTATGGTG
4999	I		S	TGTTTTCATCACAGTGGGTGGCATTCTAGGCTCTTA
4999	P	G	S	ATGACGTGGCAGACCCCCCAGGCTTGGY
4999	P	A	S	CGCGCCGAGGTCCCCAGGCTTGGAY
4999	T	G	S	AGACTCCAAGCCTGGGGGAAGAGCCTAGAATGCCACCCACTGTGATGAAAACAGC
4999	T	A	S	AGACTCCAAGCCTGGGGAAAGAGCCTAGAATGCCACCCACTGTGATGAAAACAGC
4999	IS	[GA]		AGTGTGGTCAACGGGCAGAATGCTAAGATCATGGCATTGAGAGAGACTCCAAGCCTGGGG[GA]AAGAGCCTAGAATGCCACCCACTGTGATGAAAACAGCC AGCACTCACAATAGTGAGGGGC
5189	I		A	CACCCCCAGTCCCGCCTCCCA
5189	P	C	A	ATGACGTGGCAGACCCCTTCATTTCCTTGTTTTG
5189	P	T	A	CGCGCCGAGGTCCTTCATTTCCTTGTTTTG
5189	T	C	A	GTTCCAAAACAAGGAAATGAAGGGGGGAGGCGGGACTGGGGGTGCC
5189	T	T	A	GTTCCAAAACAAGGAAATGAAGGAGGGAGGCGGGACTGGGGGTGCC
5189	IS	[CT]		CCTCCTCCTCCTCCGCGACGGCGGCGGCGGCTCCCGCAGGCACCCCCAGTCCCGCCTCCC[CT]CCTTCATTTCCTTGTTTTGGAACCTGGTGGGCCGCGC CGTGGCTTCCTCGAGCTCATTAG
5190	I		A	GTCCCTGCCAGCATCCTGTTGGCCC
5190	P	G	A	ATGACGTGGCAGACGCCATTTTGACCCCTG
5190	P	T	A	CGCGCCGAGGTCCATTTTGACCCCTG
5190	T	G	A	CAGGCAGGGGTCAAAATGGCGGCCAACAGGATGCTGGCAGGGACCT
5190	T	T	A	CAGGCAGGGGTCAAAATGGAGGCCAACAGGATGCTGGCAGGGACCT
5190	IS	[GT]		GGATAGGAGATCCCCACCCCCATTCTTATCCCCCGAGGTCCCTGCCAGCATCCTGTTGGCC[GT]CCATTTTGACCCCTGCCTGCTTCCTGCTCTTGCCTTCTT GGCTATCGCTGCTGGGACTCA
5191	I		S	GATGGCAGCCAATGTCTGCTCCGCTTA
5191	P	A	S	CGCGCCGAGGTGCAGAAGGGAGATGGY
5191	P	G	S	ATGACGTGGCAGACCGCAGAAGGGAGATGGY
5191	T	A	S	TCGGCCATCTCCCTTCTGCAAAGCGGAGCAGACATTGGCTGCCATCTG
5191	T	G	S	TCGGCCATCTCCCTTCTGCGAAGCGGAGCAGACATTGGCTGCCATCTG
5191	IS	[AG]		CACACCCTGGCTCCCCAAGGGCAGCGGGAGCTGGTGGGCCATCGGCCATCTCCCTTCTGC[AG]AAGCGGAGCAGACATTGGCTGCCATCTGCGGAGGGC CTGCCCATGCGGTGCCAGGGGCCT
5197	I		S	CTCCATAAGCCCTGGGAATCCCACAGGTGT
5197	P	C	S	ATGACGTGGCAGACGTGATACATGGCCCAGAY
5197	P	T	S	CGCGCCGAGGATGATACATGGCCCAGAY
5197	T	C	S	AGAGTCTGGGCCATGTATCACCACCTGTGGGATTCCCAGGGCTTATGGAGTT
5197	T	T	S	AGAGTCTGGGCCATGTATCATCACCTGTGGGATTCCCAGGGCTTATGGAGTT
5197	IS	[CT]		AGAAGCTCAGGTATGTGGCTCAGAGGATGAACAGAGAGGGAGAGTCTGGGCCATGTATC[A/C]TCACCTGTGGGATTCCCAGGGCTTATGGAGTTTGGTCA GAGCAAGTGACCGGGGGGAGGCC
5212	I		S	CATGAGAGATCCACCCTTGTAAGGTGAGGTGGTCA
5212	P	A	S	CGCGCCGAGGTAATATGTTGACTATCTGCACA
5212	P	G	S	ATGACGTGGCAGACCAATATGTTGACTATCTGCAC
5212	T	A	S	CACCTGTGCAGATAGTCAACATATTAGACCACCTCACCTTACAAGGGTGGATCTCTCATGCA
5212	T	G	S	CACCTGTGCAGATAGTCAACATATTGGACCACCTCACCTTACAAGGGTGGATCTCTCATGCA
5212	IS	[AG]		GTCTCCAGATATTTTTTGCTTTCTATAAAAAGGCTCACCTGTGCAGATAGTCAACATATT[AG]GACCACCTCACCTTACAAGGGTGGATCTCTCATGCATCCT TTCTACACATTTATCAGGCT
5213	I		A	GCCATTGCTTTTCTCCTCCTGATTTGGACCTTTCTTGA
5213	P	T	A	CGCGCCGAGGTTCTTTAATATTATTGTTTAAGGCAAAT
5213	P	C	A	ATGACGTGGCAGACCTCTTTAATATTATTGTTTAAGGCAAAT
5213	T	T	A	TCACATTTGCCTTAAACAATAATATTAAAGAACAAGAAAGGTCCAAATCAGGAGGAGAAAAGCAATGGCTT
5213	T	C	A	TCACATTTGCCTTAAACAATAATATTAAAGAGCAAGAAAGGTCCAAATCAGGAGGAGAAAAGCAATGGCTT
5213	IS	[TC]		ATTTCCATCTTTTTCCAAATGAAGCCATTGCTTTTCTCCTCCTGATTTGGACCTTTCTTG[T/C]TCTTTAATATTATTGTTTAAGGCAAATGTGATCAGTTTAAAA CTCATGTTGTCTGGGGTT
5236	I		S	CTTCTGCAGGGCCTCCCGCACCT
5236	P	T	S	CGCGCCGAGGAGGTCCAGCCAGTC
5236	P	G	S	ATGACGTGGCAGACCGGTCCAGCCAGTC
5236	T	T	S	TGAGGACTGGCTGGACCTGGTGCGGGAGGCCCTGCAGAAGGT
5236	T	G	S	TGAGGACTGGCTGGACCGGGTGCGGGAGGCCCTGCAGAAGGT
5236	IS	[TG]		CTGGCAAGAAGCTGGCCCTGCGCGCCTCCTCCCAGGACGAAGCTGAGGACTGGCTGGACC[T/G]GGTGCGGGAGGCCCTGCAGAAGGTCCGGCCTCAGC AGGAGGATGAGTGGGTGAACGTGCA
5281	I		S	CCACATGTCCCAAACACCTCCTGTCACTTAGTTAACCA
5281	P	A	S	CGCGCCGAGGTCCCTTTCTAATGTACAGAGA
5281	P	G	S	ATGACGTGGCAGACCCCCTTTCTAATGTACAGAG
5281	T	A	S	GCTGTCTCTGTACATTAGAAAGGGAGGTTAACTAAGTGACAGGAGGTGTTTGGGACATGTGGAC
5281	T	G	S	GCTGTCTCTGTACATTAGAAAGGGGGGTTAACTAAGTGACAGGAGGTGTTTGGGACATGTGGAC
5281	IS	[AG]		TGTGCGCCTGAGAACCCCTGTGGAGTGGGAGGGGCAGCTGTCTCTGTACATTAGAAAGGG[A/G]GGTTAACTAAGTGACAGGAGGTGTTTGGGACATGTGG ACACCAGACTTCTCTCTTGATGC
5291	I		S	GCCCGTCCCCATTTATCAAATTACCCAGATTATTTGAGTTGACC
5291	P	C	S	ATGACGTGGCAGACGTGGACAGCTGAATCC
5291	P	A	S	CGCGCCGAGGTTGGACAGCTGAATCCT
5291	T	C	S	CAAGAGGATTCAGCTGTCCACGTCAACTCAAATAATCTGGGTAATTTGATAAATGGGGACGGGCCA
5291	T	A	S	CAAGAGGATTCAGCTGTCCAAGTCAACTCAAATAATCTGGGTAATTTGATAAATGGGGACGGGCCA
5291	IS	[CA]		GTGGCAAGTCACTAAAGTGGCTTCCCAGGTAAGCAGCTCACAAGAGGATTCAGCTGTCC[A/C]AGTCAACTCAAATAATCTGGGTAATTTGATAAATGGGGAC GGGCCACAAAGTAGTGCTGCA
5353	I		S	CCGGATAGAGCCTCCCTCACCATCCTCTTTCA
5353	P	G	S	ATGACGTGGCAGACCACACCTCTAGCCCAG
5353	P	A	S	CGCGCCGAGGTACACCTCTAGCCCAG
5353	T	G	S	GTTCCTGGGCTAGAGGTGTGGAAAAGAGGATGGTGAGGGAGGCTCTATCCGGGC
5353	T	A	S	GTTCCTGGGCTAGAGGTGTAGAAAGAGGATGGTGAGGGAGGCTCTATCCGGGC
5353	IS	[GA]		AGGAGGGCAGACAGGCAGACACTAGGGCCCATCCTGGGCTGGTTCCTGGGCTAGAGGTGT[G/A]GAAAGAGGATGGTGAGGGAGGCTCTATCCGGGCTAG GTTTAACCCTCTCCTTCCCAGGCC
5395	I		S	GGCCCCCAGACACTGCCCCAT
5395	P	C	S	ATGACGTGGCAGACGCTGCTTGTAGGCAC
5395	P	T	S	CGCGCCGAGGACTGCTTGTAGGCACT
5395	T	C	S	TTGAAGTGCCTACAAGCAGCTGGGGCAGTGTCTGGGGGCCCA
5395	T	T	S	TTGAAGTGCCTACAAGCAGTTGGGGCAGTGTCTGGGGGCCCA
5395	IS	[CT]		GAAGGCATGTGGGACCAGGTCATCTTGGAGGATGTGCGAGGTTGAAGTGCCTACAAGCAG[C/T]TGGGGCAGTGTCTGGGGGCCCACCTGTTCTGTAGGGT CATCGTCCTCTGGCCGCCGCGGC
5466	I		S	TCCTAAGCCCTCCATCTCCAGCAGCAACTTAAAA
5466	P	A	S	CGCGCCGAGGTCCCAGGGAGACCA
5466	P	G	S	ATGACGTGGCAGACCCCCAGGGAGACCA
5466	T	A	S	TCCATGGTCTCCCTGGGATTTAAGTTGCTGCTGGAGATGGAGGGCTTAGGAGT
5466	T	G	S	TCCATGGTCTCCCTGGGGTTTAAGTTGCTGCTGGAGATGGAGGGCTTAGGAGT
5466	IS	[AG]		GCTTGCGTCTGGAGTCTCAGGGTCACAGGTTAAGCTCACAGCCTCCATGGTCTCCCTGGG[A/G]TTTAAGTTGCTGCTGGAGATGGAGGGCTTAGGAGTCT CCACTGTGCAGAAAACAGGGTGA
5492	I		S	CCTGGCACAGGAGTTCTATTTGCATTTCTCTCTCATTCTA
5492	P	A	S	CGCGCCGAGGTCTCCCTGATTTGATACAGY
5492	P	G	S	ATGACGTGGCAGACCCTCCCTGATTTGATACAGY
5492	T	A	S	AAAGCTGTATCAAATCAGGGAGAAGAATGAGAGAGAAATGCAAATAGAACTCCTGTGCCAGGGT

FIGURE 129E



SAA1

FIGURE 129E

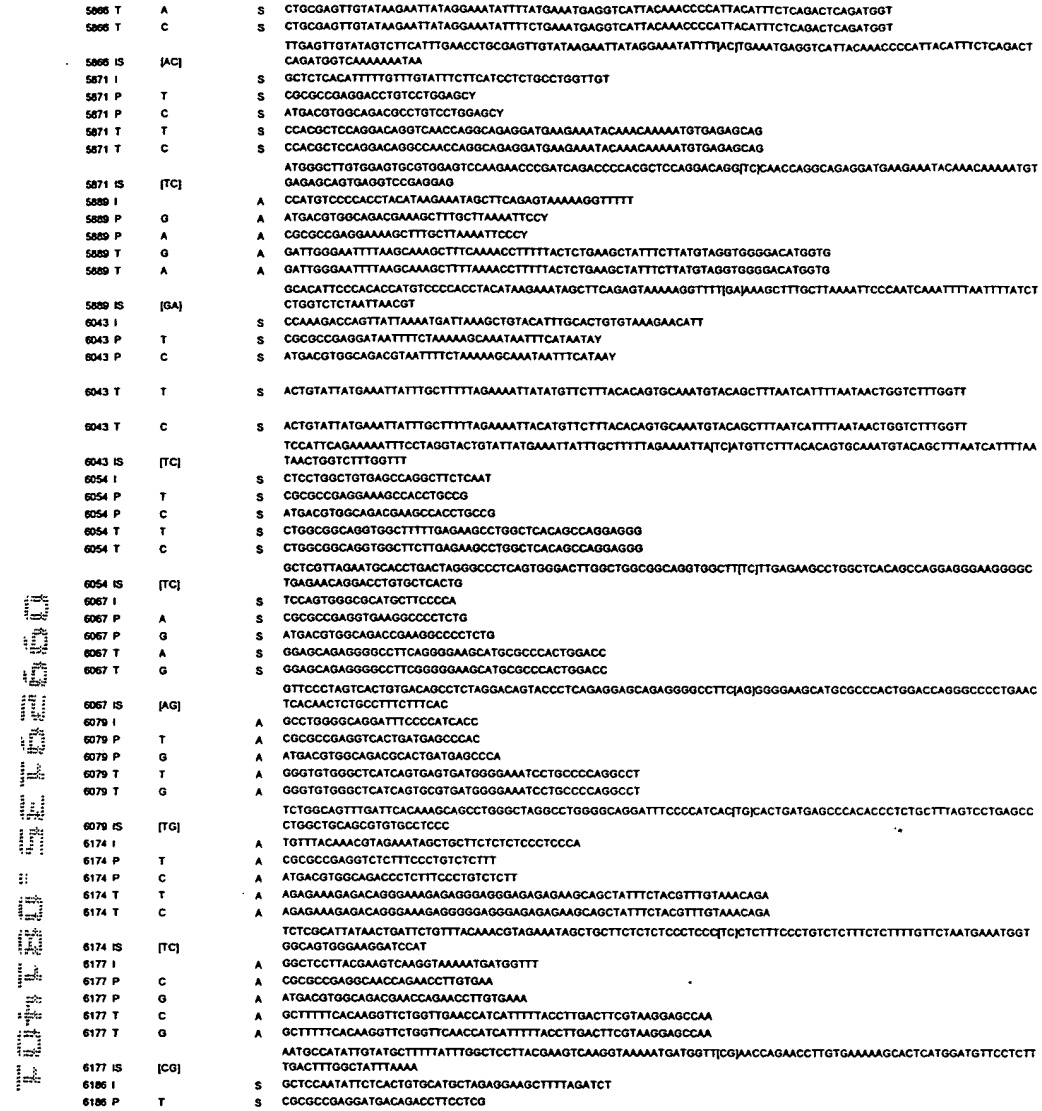

5866 T A S CTGCGAGTTGTATAAGAATTATAGGAAATATTTTATGAAATGAGGTCATTACAAACCCCATTACATTTCTCAGACTCAGATGGT
5866 T C S CTGCGAGTTGTATAAGAATTATAGGAAATATTTTCTGAAATGAGGTCATTACAAACCCCATTACATTTCTCAGACTCAGATGGT
5866 IS [AC] TTGAGTTGTATAGTCTTCATTTGAACCTGCGAGTTGTATAAGAATTATAGGAAATATTTT[AC]TGAAATGAGGTCATTACAAACCCCATTACATTTCTCAGACT CAGATGGTCAAAAAATAA
5871 I S GCTCTCACATTTTTGTTTGTATTTCTTCATCCTCTGCCTGGTTGT
5871 P T S CGCGCCGAGGACCTGTCCTGGAGCY
5871 P C S ATGACGTGGCAGACGCCTGTCCTGGAGCY
5871 T T S CCACGCTCCAGGACAGGTCAACCAGGCAGAGGATGAAGAAATACAAACAAAAATGTGAGAGCAG
5871 T C S CCACGCTCCAGGACAGGCCAACCAGGCAGAGGATGAAGAAATACAAACAAAAATGTGAGAGCAG
5871 IS [TC] ATGGGCTTGTGGAGTGCGTGGAGTCCAAGAACCCGATCAGACCCCACGCTCCAGGACAGG[TC]CAACCAGGCAGAGGATGAAGAAATACAAACAAAAATGT GAGAGCAGTGAGGTCCGAGGAG
5889 I A CCATGTCCCCACCTACATAAGAAATAGCTTCAGAGTAAAAAGGTTTTT
5889 P G A ATGACGTGGCAGACGAAAGCTTTGCTTAAAATTCCY
5889 P A A CGCGCCGAGGAAAAGCTTTGCTTAAAATTCCCY
5889 T G A GATTGGGAATTTTAAGCAAAGCTTTCAAAACCTTTTTACTCTGAAGCTATTTCTTATGTAGGTGGGGACATGGTG
5889 T A A GATTGGGAATTTTAAGCAAAGCTTTTAAAACCTTTTTACTCTGAAGCTATTTCTTATGTAGGTGGGGACATGGTG
5889 IS [GA] GCACATTCCCACACCATGTCCCCACCTACATAAGAAATAGCTTCAGAGTAAAAAGGTTTT[GA]AAAGCTTTGCTTAAAATTCCCAATCAAATTTTAATTTTATCT CTGGTCTCTAATTAACGT
6043 I S CCAAAGACCAGTTATTAAAATGATTAAAGCTGTACATTTGCACTGTGTAAAGAACATT
6043 P T S CGCGCCGAGGATAATTTTCTAAAAAGCAAATAATTTCATAATAY
6043 P C S ATGACGTGGCAGACGTAATTTTCTAAAAAGCAAATAATTTCATAAY
6043 T T S ACTGTATTATGAAATTATTTGCTTTTTAGAAAATTATATGTTCTTTACACAGTGCAAATGTACAGCTTTAATCATTTTAATAACTGGTCTTTGGTT
6043 T C S ACTGTATTATGAAATTATTTGCTTTTTAGAAAATTACATGTTCTTTACACAGTGCAAATGTACAGCTTTAATCATTTTAATAACTGGTCTTTGGTT
6043 IS [TC] TCCATTCAGAAAAATTTCCTAGGTACTGTATTATGAAATTATTTGCTTTTTAGAAAATTA[TC]ATGTTCTTTACACAGTGCAAATGTACAGCTTTAATCATTTTAA TAACTGGTCTTTGGTTT
6054 I S CTCCTGGCTGTGAGCCAGGCTTCTCAAT
6054 P T S CGCGCCGAGGAAAGCCACCTGCCG
6054 P C S ATGACGTGGCAGACGAAGCCACCTGCCG
6054 T T S CTGGCGGCAGGTGGCTTTTTGAGAAGCCTGGCTCACAGCCAGGAGGG
6054 T C S CTGGCGGCAGGTGGCTTCTTGAGAAGCCTGGCTCACAGCCAGGAGGG
6054 IS [TC] GCTCGTTAGAATGCACCTGACTAGGGCCCTCAGTGGGACTTGGCTGGCGGCAGGTGGCTT[TC]TTGAGAAGCCTGGCTCACAGCCAGGAGGGAAGGGGC TGAGAACAGGACCTGTGCTCACTG
6067 I S TCCAGTGGGCGCATGCTTCCCCA
6067 P A S CGCGCCGAGGTGAAGGCCCCTCTG
6067 P G S ATGACGTGGCAGACCGAAGGCCCCTCTG
6067 T A S GGAGCAGAGGGGCCTTCAGGGGAAGCATGCGCCCACTGGACC
6067 T G S GGAGCAGAGGGGCCTTCGGGGGAAGCATGCGCCCACTGGACC
6067 IS [AG] GTTCCCTAGTCACTGTGACAGCCTCTAGGACAGTACCCTCAGAGGAGCAGAGGGGCCTTC[AG]GGGGAAGCATGCGCCCACTGGACCAGGGCCCCTGAAC TCACAACTCTGCCTTTCTTTCAC
6079 I A GCCTGGGGCAGGATTTCCCCATCACC
6079 P T A CGCGCCGAGGTCACTGATGAGCCCAC
6079 P G A ATGACGTGGCAGACGCACTGATGAGCCCA
6079 T T A GGGTGTGGGCTCATCAGTGAGTGATGGGGAAATCCTGCCCCAGGCCT
6079 T G A GGGTGTGGGCTCATCAGTGCGTGATGGGGAAATCCTGCCCCAGGCCT
6079 IS [TG] TCTGGCAGTTTGATTCACAAAGCAGCCTGGGCTAGGCCTGGGGCAGGATTTCCCCATCAC[TG]CACTGATGAGCCCACACCCTCTGCTTTAGTCCTGAGCC CTGGCTGCAGCGTGTGCCTCCC
6174 I A TGTTTACAAACGTAGAAATAGCTGCTTCTCTCTCCCTCCCA
6174 P T A CGCGCCGAGGTCTCTTTCCCTGTCTCTTT
6174 P C A ATGACGTGGCAGACCCTCTTTCCCTGTCTCTT
6174 T T A AGAGAAAGAGACAGGGAAAGAGAGGGAGGGAGAGAGAAGCAGCTATTTCTACGTTTGTAAACAGA
6174 T C A AGAGAAAGAGACAGGGAAAGAGGGGGAGGGAGAGAGAAGCAGCTATTTCTACGTTTGTAAACAGA
6174 IS [TC] TCTCGCATTATAACTGATTCTGTTTACAAACGTAGAAATAGCTGCTTCTCTCTCCCTCCC[TC]CTCTTTCCCTGTCTCTTTCTCTTTTGTTCTAATGAAATGGT GGCAGTGGGAAGGATCCAT
6177 I A GGCTCCTTACGAAGTCAAGGTAAAAATGATGGTTT
6177 P C A CGCGCCGAGGCAACCAGAACCTTGTGAA
6177 P G A ATGACGTGGCAGACGAACCAGAACCTTGTGAAA
6177 T C A GCTTTTTCACAAGGTTCTGGTTGAACCATCATTTTTACCTTGACTTCGTAAGGAGCCAA
6177 T G A GCTTTTTCACAAGGTTCTGGTTCAACCATCATTTTTACCTTGACTTCGTAAGGAGCCAA
6177 IS [CG] AATGCCATATTGTATGCTTTTTATTTGGCTCCTTACGAAGTCAAGGTAAAAATGATGGTT[CG]AACCAGAACCTTGTGAAAAAGCACTCATGGATGTTCCTCTT TGACTTTGGCTATTTAAAA
6186 I S GCTCCAATATTCTCACTGTGCATGCTAGAGGAAGCTTTTAGATCT
6186 P T S CGCGCCGAGGATGACAGACCTTCCTCG
6186 P C S ATGACGTGGCAGACGTGACAGACCTTCCTCG
6186 T T S GAATCGAGGAAGGTCTGTCATGATCTAAAAGCTTCCTCTAGCATGCACAGTGAGAATATTGGAGCAG
6186 T C S GAATCGAGGAAGGTCTGTCACGATCTAAAAGCTTCCTCTAGCATGCACAGTGAGAATATTGGAGCAG
6186 IS [TC] GGATTTCAGAACTTAGAAAGATTTCTTCTATCATTATGGAGAATCGAGGAAGGTCTGTCA[TC]GATCTAAAAGCTTCCTCTAGCATGCACAGTGAGAATATTG GAGCAGTGATGCTAAATTTC
6191 I A GTGCTGGAAACAGATGATATGCTTAAAGGAAAAACAAAAGTGTAAACACAGT
6191 P G A ATGACGTGGCAGACGGATGCACGATCTTTTTG
6191 P A A CGCGCCGAGGAGATGCACGATCTTTTTGA
6191 T G A ATTTTCAAAAAGATCGTGCATCCCTGTGTTTACACTTTTGTTTTTCCTTTAAGCATATCATCTGTTTCCAGCACCG
6191 T A A ATTTTCAAAAAGATCGTGCATCTCTGTGTTTACACTTTTGTTTTTCCTTTAAGCATATCATCTGTTTCCAGCACCG
6191 IS [GA] TTATTGCCGGTGCTGGAAACAGATGATATGCTTAAAGGAAAAACAAAAGTGTAAACACAG[GA]GATGCACGATCTTTTTGAAAATCCCCATGGATCTTTATTA TCCTGTAGGTTTTTCCTCCA
6204 I S CATGGGAGCCAAGTCACTATCCCAGTTGGCT
6204 P C S ATGACGTGGCAGACGTGGCCTCTTCATGC
6204 P T S CGCGCCGAGGATGGCCTCTTCATGCA
6204 T C S ATCCTGCATGAAGAGGCCACGCCAACTGGGATAGTGACTTGGCTCCCATGGC
6204 T T S ATCCTGCATGAAGAGGCCATGCCAACTGGGATAGTGACTTGGCTCCCATGGC
6204 IS [CT] GGCTCAGTCTCTGTCCAAAAGGGTCACGGGCCCTCCAGTCCATCCTGCATGAAGAGGCCA[CT]GCCAACTGGGATAGTGACTTGGCTCCCATGGCTGCCC TCTTTTACGTTCTAAGCCTCCTT
6225 I S GGTTCCAAGCCTCACACCAGAGTCACCAAATGAAAATTATT
6225 P T S CGCGCCGAGGACCTCACCCAAGACAAT
6225 P C S ATGACGTGGCAGACGCCTCACCCAAGACA
6225 T T S ACTTATTGTCTTGGGTGAGGTATAATTTTCATTTGGTGACTCTGGTGTGAGGCTTGGAACCCA
6225 T C S ACTTATTGTCTTGGGTGAGGCATAATTTTCATTTGGTGACTCTGGTGTGAGGCTTGGAACCCA
6225 IS [TC] AGTGGTAAGCAATAGAGATTGTCTTGCCCTCTCTTGGACTACTTATTGTCTTGGGTGAGG[TC]ATAATTTTCATTTGGTGACTCTGGTGTGAGGCTTGGAAC CCATACTCATTAATTTAGATA
6241 I S TCAAGAGGGAGAAATTATTACAATCACTCTGTACCAGGCAATGAGTAA
6241 P G S ATGACGTGGCAGACCATATTCATCTTGAACAGAAATGA
6241 P A S CGCGCCGAGGTATATTCATCTTGAACAGAAATGAG
6241 T G S TCTTCTCATTTCTGTTCAAGATGAATATGTACTCATTGCCTGGTACAGAGTGATTGTAATAATTTCTCCCTCTTGAGG
6241 T A S TCTTCTCATTTCTGTTCAAGATGAATATATACTCATTGCCTGGTACAGAGTGATTGTAATAATTTCTCCCTCTTGAGG
6241 IS [GA] AGCATCTCAGTGATTTCATATTTATTCTACATTCTTCTCATTTCTGTTCAAGATGAATAT[GA]TACTCATTGCCTGGTACAGAGTGATTGTAATAATTTCTCCCT CTTGAGGGAAGGCTCTTA
6249 I A GGATTGCGGCAGAGTGTACTTGCAAGTGGAGT
6249 P C A CGCGCCGAGGCCTTGAAGGGTAAGATCATAAA

FIGURE 129E

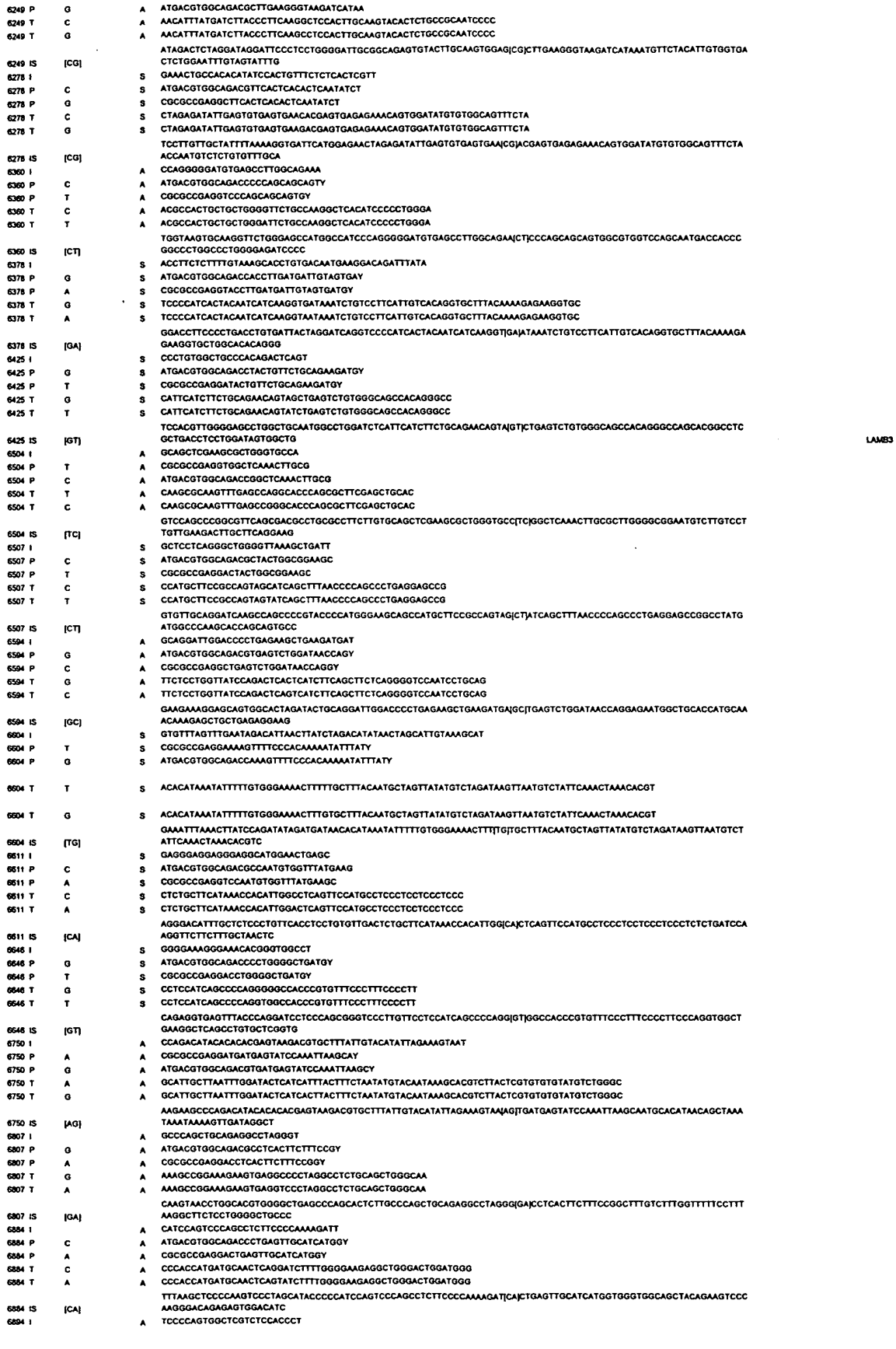

6249 P G A ATGACGTGGCAGACGCTTGAAGGGTAAGATCATAA
6249 T C A AACATTTATGATCTTACCCTTCAAGGCTCCACTTGCAAGTACACTCTGCCGCAATCCCC
6249 T G A AACATTTATGATCTTACCCTTCAAGCCTCCACTTGCAAGTACACTCTGCCGCAATCCCC
6249 IS [CG] ATAGACTCTAGGATAGGATTCCCTCCTGGGGATTGCGGCAGAGTGTACTTGCAAGTGGAG[CG]CTTGAAGGGTAAGATCATAAATGTTCTACATTGTGGTGA CTCTGGAATTTGTAGTATTTG
6278 I S GAAACTGCCACACATATCCACTGTTTCTCTCACTCGTT
6278 P C S ATGACGTGGCAGACGTTCACTCACACTCAATATCT
6278 P G S CGCGCCGAGGCTTCACTCACACTCAATATCT
6278 T C S CTAGAGATATTGAGTGTGAGTGAACACGAGTGAGAGAAACAGTGGATATGTGTGGCAGTTTCTA
6278 T G S CTAGAGATATTGAGTGTGAGTGAAGACGAGTGAGAGAAACAGTGGATATGTGTGGCAGTTTCTA
6278 IS [CG] TCCTTGTTGCTATTTTAAAAGGTGATTCATGGAGAACTAGAGATATTGAGTGTGAGTGAA[CG]ACGAGTGAGAGAAACAGTGGATATGTGTGGCAGTTTCTA ACCAATGTCTCTGTGTTTGCA
6360 I A CCAGGGGGATGTGAGCCTTGGCAGAAA
6360 P C A ATGACGTGGCAGACCCCCAGCAGCAGTY
6360 P T A CGCGCCGAGGTCCCAGCAGCAGTGY
6360 T C A ACGCCACTGCTGCTGGGGTTCTGCCAAGGCTCACATCCCCCTGGGA
6360 T T A ACGCCACTGCTGCTGGGATTCTGCCAAGGCTCACATCCCCCTGGGA
6360 IS [CT] TGGTAAGTGCAAGGTTCTGGGAGCCATGGCCATCCCAGGGGGATGTGAGCCTTGGCAGAA[CT]CCCAGCAGCAGTGGCGTGGTCCAGCAATGACCACCC GGCCCTGGCCCTGGGGAGATCCCC
6378 I S ACCTTCTCTTTTGTAAAGCACCTGTGACAATGAAGGACAGATTTATA
6378 P G S ATGACGTGGCAGACCACCTTGATGATTGTAGTGAY
6378 P A S CGCGCCGAGGTACCTTGATGATTGTAGTGATGY
6378 T G S TCCCCATCACTACAATCATCAAGGTGATAAATCTGTCCTTCATTGTCACAGGTGCTTTACAAAAGAGAAGGTGC
6378 T A S TCCCCATCACTACAATCATCAAGGTAATAAATCTGTCCTTCATTGTCACAGGTGCTTTACAAAAGAGAAGGTGC
6378 IS [GA] GGACCTTCCCCTGACCTGTGATTACTAGGATCAGGTCCCCATCACTACAATCATCAAGGT[GA]ATAAATCTGTCCTTCATTGTCACAGGTGCTTTACAAAAGA GAAGGTGCTGGCACACAGGG
6425 I S CCCTGTGGCTGCCCACAGACTCAGT
6425 P G S ATGACGTGGCAGACCTACTGTTCTGCAGAAGATGY
6425 P T S CGCGCCGAGGATACTGTTCTGCAGAAGATGY
6425 T G S CATTCATCTTCTGCAGAACAGTAGCTGAGTCTGTGGGCAGCCACAGGGCC
6425 T T S CATTCATCTTCTGCAGAACAGTATCTGAGTCTGTGGGCAGCCACAGGGCC
6425 IS [GT] TCCACGTTGGGGAGCCTGGCTGCAATGGCCTGGATCTCATTCATCTTCTGCAGAACAGTA[GT]CTGAGTCTGTGGGCAGCCACAGGGCCAGCACGGCCTC GCTGACCTCCTGGATAGTGGCTG LAMB3
6504 I A GCAGCTCGAAGCGCTGGGTGCCA
6504 P T A CGCGCCGAGGTGGCTCAAACTTGCG
6504 P C A ATGACGTGGCAGACCGGCTCAAACTTGCG
6504 T T A CAAGCGCAAGTTTGAGCCAGGCACCCAGCGCTTCGAGCTGCAC
6504 T C A CAAGCGCAAGTTTGAGCCGGGCACCCAGCGCTTCGAGCTGCAC
6504 IS [TC] GTCCAGCCCGGCGTTCAGCGACGCCTGCGCCTTCTTGTGCAGCTCGAAGCGCTGGGTGCC[TC]GGCTCAAACTTGCGCTTGGGGCGGAATGTCTTGTCCT TGTTGAAGACTTGCTTCAGGAAG
6507 I S GCTCCTCAGGGCTGGGGTTAAAGCTGATT
6507 P C S ATGACGTGGCAGACGCTACTGGCGGAAGC
6507 P T S CGCGCCGAGGACTACTGGCGGAAGC
6507 T C S CCATGCTTCCGCCAGTAGCATCAGCTTTAACCCCAGCCCTGAGGAGCCG
6507 T T S CCATGCTTCCGCCAGTAGTATCAGCTTTAACCCCAGCCCTGAGGAGCCG
6507 IS [CT] GTGTTGCAGGATCAAGCCAGCCCCGTACCCCATGGGAAGCAGCCATGCTTCCGCCAGTAG[CT]ATCAGCTTTAACCCCAGCCCTGAGGAGCCGGCCTATG ATGGCCCAAGCACCAGCAGTGCC
6594 I A GCAGGATTGGACCCCTGAGAAGCTGAAGATGAT
6594 P G A ATGACGTGGCAGACGTGAGTCTGGATAACCAGY
6594 P C A CGCGCCGAGGCTGAGTCTGGATAACCAGGY
6594 T G A TTCTCCTGGTTATCCAGACTCACTCATCTTCAGCTTCTCAGGGGTCCAATCCTGCAG
6594 T C A TTCTCCTGGTTATCCAGACTCAGTCATCTTCAGCTTCTCAGGGGTCCAATCCTGCAG
6594 IS [GC] GAAGAAAGGAGCAGTGGCACTAGATACTGCAGGATTGGACCCCTGAGAAGCTGAAGATGA[GC]TGAGTCTGGATAACCAGGAGAATGGCTGCACCATGCAA ACAAAGAGCTGCTGAGAGGAAG
6604 I S GTGTTTAGTTTGAATAGACATTAACTTATCTAGACATATAACTAGCATTGTAAAGCAT
6604 P T S CGCGCCGAGGAAAAGTTTTCCCACAAAAATATTTATY
6604 P G S ATGACGTGGCAGACCAAAGTTTTCCCACAAAAATATTTATY
6604 T T S ACACATAAATATTTTTGTGGGAAAACTTTTTGCTTTACAATGCTAGTTATATGTCTAGATAAGTTAATGTCTATTCAAACTAAACACGT
6604 T G S ACACATAAATATTTTTGTGGGAAAACTTTGTGCTTTACAATGCTAGTTATATGTCTAGATAAGTTAATGTCTATTCAAACTAAACACGT
6604 IS [TG] GAAATTTAAACTTATCCAGATATAGATGATAACACATAAATATTTTTGTGGGAAAACTTT[TG]TGCTTTACAATGCTAGTTATATGTCTAGATAAGTTAATGTCT ATTCAAACTAAACACGTC
6611 I S GAGGGAGGAGGGAGGCATGGAACTGAGC
6611 P C S ATGACGTGGCAGACGCCAATGTGGTTTATGAAG
6611 P A S CGCGCCGAGGTCCAATGTGGTTTATGAAGC
6611 T C S CTCTGCTTCATAAACCACATTGGCCTCAGTTCCATGCCTCCCTCCTCCCTCCC
6611 T A S CTCTGCTTCATAAACCACATTGGACTCAGTTCCATGCCTCCCTCCTCCCTCCC
6611 IS [CA] AGGGACATTTGCTCTCCCTGTTCACCTCCTGTGTTGACTCTGCTTCATAAACCACATTGG[CA]CTCAGTTCCATGCCTCCCTCCTCCCTCCCTCTCTGATCCA AGGTTCTTCTTTGCTAACTC
6646 I S GGGGAAAGGGAAACACGGGTGGCCT
6646 P G S ATGACGTGGCAGACCCCTGGGGCTGATGY
6646 P T S CGCGCCGAGGACCTGGGGCTGATGY
6646 T G S CCTCCATCAGCCCCAGGGGGCCACCCGTGTTTCCCTTTCCCCTT
6646 T T S CCTCCATCAGCCCCAGGTGGCCACCCGTGTTTCCCTTTCCCCTT
6646 IS [GT] CAGAGGTGAGTTTACCCAGGATCCTCCCAGCGGGTCCCTTGTTCCTCCATCAGCCCCAGG[GT]GGCCACCCGTGTTTCCCTTTCCCCTTCCCAGGTGGCT GAAGGCTCAGCCTGTGCTCGGTG
6750 I A CCAGACATACACACACGAGTAAGACGTGCTTTATTGTACATATTAGAAAGTAAT
6750 P A A CGCGCCGAGGATGATGAGTATCCAAATTAAGCAY
6750 P G A ATGACGTGGCAGACGTGATGAGTATCCAAATTAAGCY
6750 T A A GCATTGCTTAATTTGGATACTCATCATTTACTTTCTAATATGTACAATAAAGCACGTCTTACTCGTGTGTGTATGTCTGGGC
6750 T G A GCATTGCTTAATTTGGATACTCATCACTTACTTTCTAATATGTACAATAAAGCACGTCTTACTCGTGTGTGTATGTCTGGGC
6750 IS [AG] AAGAAGCCCAGACATACACACACGAGTAAGACGTGCTTTATTGTACATATTAGAAAGTAA[AG]TGATGAGTATCCAAATTAAGCAATGCACATAACAGCTAAA TAAATAAAAGTTGATAGGCT
6807 I A GCCCAGCTGCAGAGGCCTAGGGT
6807 P G A ATGACGTGGCAGACGCCTCACTTCTTTCCGY
6807 P A A CGCGCCGAGGACCTCACTTCTTTCCGGY
6807 T G A AAAGCCGGAAAGAAGTGAGGCCCCTAGGCCTCTGCAGCTGGGCAA
6807 T A A AAAGCCGGAAAGAAGTGAGGTCCCTAGGCCTCTGCAGCTGGGCAA
6807 IS [GA] CAAGTAACCTGGCACGTGGGGCTGAGCCCAGCACTCTTGCCCAGCTGCAGAGGCCTAGGG[GA]CCTCACTTCTTTCCGGCTTTGTCTTTGGTTTTTCCTTT AAGGCTTCTCCTGGGGCTGCCC
6884 I A CATCCAGTCCCAGCCTCTTCCCCAAAAGATT
6884 P C A ATGACGTGGCAGACCCTGAGTTGCATCATGGY
6884 P A A CGCGCCGAGGACTGAGTTGCATCATGGY
6884 T C A CCCACCATGATGCAACTCAGGATCTTTTGGGGAAGAGGCTGGGACTGGATGGG
6884 T A A CCCACCATGATGCAACTCAGTATCTTTTGGGGAAGAGGCTGGGACTGGATGGG
6884 IS [CA] TTTAAGCTCCCCAAGTCCCTAGCATACCCCCATCCAGTCCCAGCCTCTTCCCCAAAAGAT[CA]CTGAGTTGCATCATGGTGGGTGGCAGCTACAGAAGTCCC AAGGGACAGAGAGTGGACATC
6894 I A TCCCCAGTGGCTCGTCTCCACCCT

FIGURE 129E

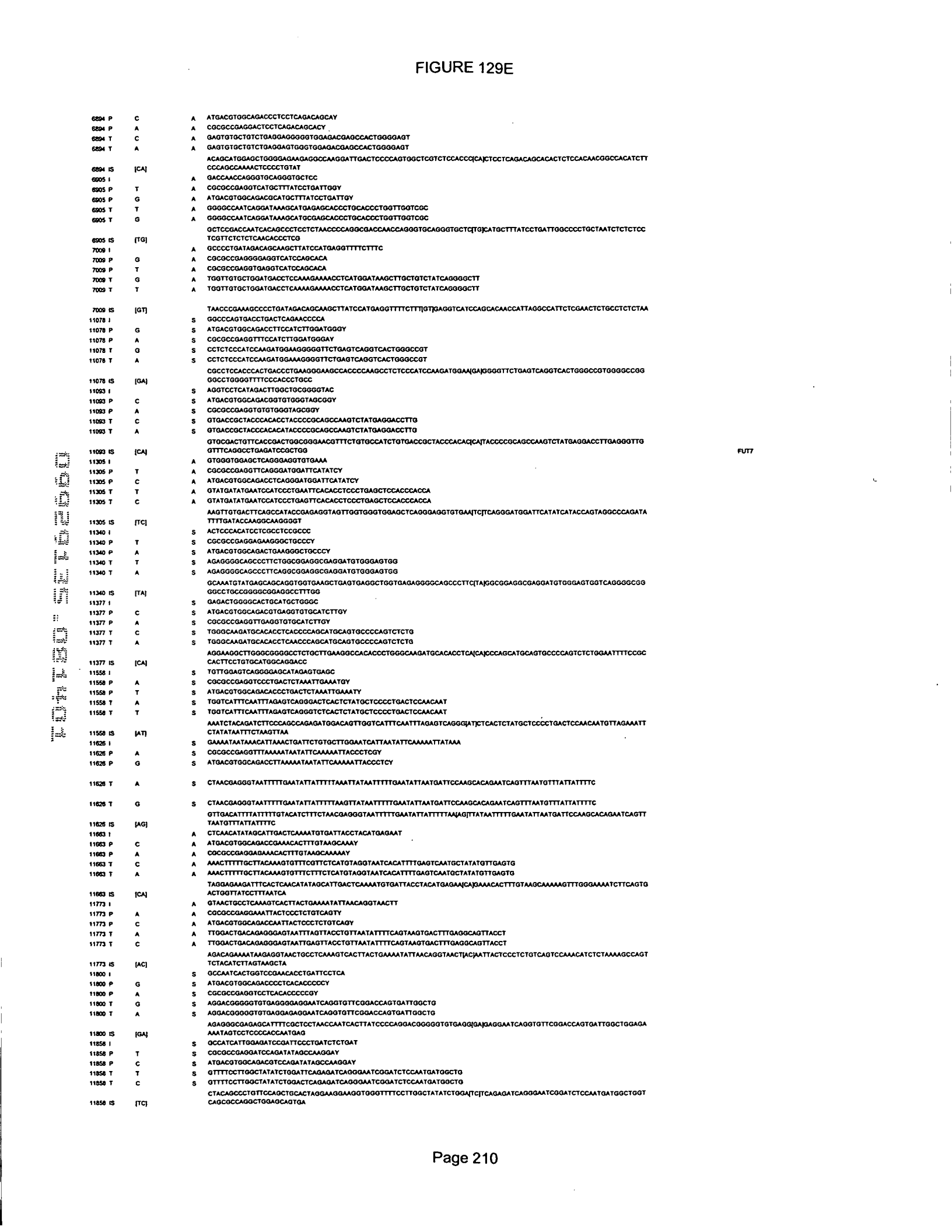

6894 P C A ATGACGTGGCAGACCCTCCTCAGACAGCAY
6894 P A A CGCGCCGAGGACTCCTCAGACAGCACY
6894 T C A GAGTGTGCTGTCTGAGGAGGGGGTGGAGACGAGCCACTGGGGAGT
6894 T A A GAGTGTGCTGTCTGAGGAGTGGGTGGAGACGAGCCACTGGGGAGT
6894 tS [CA] ACAGCATGGAGCTGGGGAGAAGAGGCCAAGGATTGACTCCCCAGTGGCTCGTCTCCACCC[CA]CTCCTCAGACAGCACACTCTCCACAACGGCCACATCTTCCCAGCCAAAACTCCCCTGTAT
6905 I A GACCAACCAGGGTGCAGGGTGCTCC
6905 P T A CGCGCCGAGGTCATGCTTTATCCTGATTGGY
6905 P G A ATGACGTGGCAGACGCATGCTTTATCCTGATTGY
6905 T T A GGGGCCAATCAGGATAAAGCATGAGAGCACCCTGCACCCTGGTTGGTCGC
6905 T G A GGGGCCAATCAGGATAAAGCATGCGAGCACCCTGCACCCTGGTTGGTCGC
6905 tS [TG] GCTCCGACCAATCACAGCCCTCCTCTAACCCCAGGCGACCAACCAGGGTGCAGGGTGCTC[TG]CATGCTTTATCCTGATTGGCCCCTGCTAATCTCTCTCCTCGTTCTCTCTCAACACCCTCG
7009 I A GCCCCTGATAGACAGCAAGCTTATCCATGAGGTTTTCTTTC
7009 P G A CGCGCCGAGGGGAGGTCATCCAGCACA
7009 P T A CGCGCCGAGGTGAGGTCATCCAGCACA
7009 T G A TGGTTGTGCTGGATGACCTCCAAAGAAAACCTCATGGATAAGCTTGCTGTCTATCAGGGGCTT
7009 T T A TGGTTGTGCTGGATGACCTCAAAAGAAAACCTCATGGATAAGCTTGCTGTCTATCAGGGGCTT
7009 tS [GT] TAACCCGAAAGCCCCTGATAGACAGCAAGCTTATCCATGAGGTTTTCTTT[GT]GAGGTCATCCAGCACAACCATTAGGCCATTCTCGAACTCTGCCTCTCTAA
11078 I S GGCCCAGTGACCTGACTCAGAACCCCA
11078 P G S ATGACGTGGCAGACCTTCCATCTTGGATGGGY
11078 P A S CGCGCCGAGGTTTCCATCTTGGATGGGAY
11078 T G S CCTCTCCCATCCAAGATGGAAGGGGGTTCTGAGTCAGGTCACTGGGCCGT
11078 T A S CCTCTCCCATCCAAGATGGAAAGGGGTTCTGAGTCAGGTCACTGGGCCGT
11078 tS [GA] CGCCTCCACCCACTGACCCTGAAGGGAAGCCACCCCAAGCCTCTCCCATCCAAGATGGAA[GA]GGGGTTCTGAGTCAGGTCACTGGGCCGTGGGGCCGGGGCCTGGGGTTTTCCCACCCTGCC
11093 I S AGGTCCTCATAGACTTGGCTGCGGGGTAC
11093 P C S ATGACGTGGCAGACGGTGTGGGTAGCGGY
11093 P A S CGCGCCGAGGTGTGTGGGTAGCGGY
11093 T C S GTGACCGCTACCCACACCTACCCCGCAGCCAAGTCTATGAGGACCTTG
11093 T A S GTGACCGCTACCCACACATACCCCGCAGCCAAGTCTATGAGGACCTTG
11093 tS [CA] GTGCGACTGTTCACCGACTGGCGGGAACGTTTCTGTGCCATCTGTGACCGCTACCCACAC[CA]TACCCCGCAGCCAAGTCTATGAGGACCTTGAGGGTTGGTTTCAGGCCTGAGATCCGCTGG
11305 I A GTGGGTGGAGCTCAGGGAGGTGTGAAA
11305 P T A CGCGCCGAGGTTCAGGGATGGATTCATATCY
11305 P C A ATGACGTGGCAGACCTCAGGGATGGATTCATATCY
11305 T T A GTATGATATGAATCCATCCCTGAATTCACACCTCCCTGAGCTCCACCCACCA
11305 T C A GTATGATATGAATCCATCCCTGAGTTCACACCTCCCTGAGCTCCACCCACCA
11305 tS [TC] AAGTTGTGACTTCAGCCATACCGAGAGGTAGTTGGTGGGTGGAGCTCAGGGAGGTGTGAA[TC]TCAGGGATGGATTCATATCATACCAGTAGGCCCAGATATTTTGATACCAAGGCAAGGGGT
11340 I S ACTCCCACATCCTCGCCTCCGCCC
11340 P T S CGCGCCGAGGAGAAGGGCTGCCCY
11340 P A S ATGACGTGGCAGACTGAAGGGCTGCCCY
11340 T T S AGAGGGGCAGCCCTTCTGGCGGAGGCGAGGATGTGGGAGTGG
11340 T A S AGAGGGGCAGCCCTTCAGGCGGAGGCGAGGATGTGGGAGTGG
11340 tS [TA] GCAAATGTATGAGCAGCAGGTGGTGAAGCTGAGTGAGGCTGGTGAGAGGGGCAGCCCTTC[TA]GCGGAGGCGAGGATGTGGGAGTGGTCAGGGGCGGGGCCTGCCGGGGCGGAGGCCTTTGG
11377 I S GAGACTGGGGCACTGCATGCTGGGC
11377 P C S ATGACGTGGCAGACGTGAGGTGTGCATCTTGY
11377 P A S CGCGCCGAGGTTGAGGTGTGCATCTTGY
11377 T C S TGGGCAAGATGCACACCTCACCCCAGCATGCAGTGCCCCAGTCTCTG
11377 T A S TGGGCAAGATGCACACCTCAACCCAGCATGCAGTGCCCCAGTCTCTG
11377 tS [CA] AGGAAGGCTTGGGCGGGGCCTCTGCTTGAAGGCCACACCCTGGGCAAGATGCACACCTCA[CA]CCCAGCATGCAGTGCCCCAGTCTCTGGAATTTTCCGCCACTTCCTGTGCATGGCAGGACC
11558 I S TGTTGGAGTCAGGGGAGCATAGAGTGAGC
11558 P A S CGCGCCGAGGTCCCTGACTCTAAATTGAAATGY
11558 P T S ATGACGTGGCAGACACCCTGACTCTAAATTGAAATY
11558 T A S TGGTCATTTCAATTTAGAGTCAGGGACTCACTCTATGCTCCCCTGACTCCAACAAT
11558 T T S TGGTCATTTCAATTTAGAGTCAGGGTCTCACTCTATGCTCCCCTGACTCCAACAAT
11558 tS [AT] AAATCTACAGATCTTCCCAGCCAGAGATGGACAGTTGGTCATTTCAATTTAGAGTCAGGG[AT]CTCACTCTATGCTCCCCTGACTCCAACAATGTTAGAAATTCTATATAATTTCTAAGTTAA
11626 I S GAAAATAATAAACATTAAACTGATTCTGTGCTTGGAATCATTAATATTCAAAAATTATAAA
11626 P A S CGCGCCGAGGTTTAAAAATAATATTCAAAAATTACCCTCGY
11626 P G S ATGACGTGGCAGACCTTAAAAATAATATTCAAAAATTACCCTCY
11626 T A S CTAACGAGGGTAATTTTTGAATATTATTTTTAAATTATAATTTTTGAATATTAATGATTCCAAGCACAGAATCAGTTTAATGTTTATTATTTTTC
11626 T G S CTAACGAGGGTAATTTTTGAATATTATTTTTAAGTTATAATTTTTGAATATTAATGATTCCAAGCACAGAATCAGTTTAATGTTTATTATTTTTC
11626 tS [AG] GTTGACATTTTATTTTTGTACATCTTTCTAACGAGGGTAATTTTTGAATATTATTTTTAA[AG]TTATAATTTTTGAATATTAATGATTCCAAGCACAGAATCAGTTTAATGTTTATTATTTTC
11663 I A CTCAACATATAGCATTGACTCAAAATGTGATTACCTACATGAGAAT
11663 P C A ATGACGTGGCAGACCGAAACACTTTGTAAGCAAAY
11663 P A A CGCGCCGAGGAGAAACACTTTGTAAGCAAAAY
11663 T C A AAACTTTTTGCTTACAAAGTGTTTCGTTCTCATGTAGGTAATCACATTTTGAGTCAATGCTATATGTTGAGTG
11663 T A A AAACTTTTTGCTTACAAAGTGTTTCTTTCTCATGTAGGTAATCACATTTTGAGTCAATGCTATATGTTGAGTG
11663 tS [CA] TAGGAGAAGATTTCACTCAACATATAGCATTGACTCAAAATGTGATTACCTACATGAGAA[CA]GAAACACTTTGTAAGCAAAAAGTTTGGGAAAATCTTCAGTGACTGGTTATCCTTTAATCA
11773 I A GTAACTGCCTCAAAGTCACTTACTGAAAATATTAACAGGTAACTT
11773 P A A CGCGCCGAGGAAATTACTCCCTCTGTCAGTY
11773 P C A ATGACGTGGCAGACCAATTACTCCCTCTGTCAGY
11773 T A A TTGGACTGACAGAGGGAGTAATTTAGTTACCTGTTAATATTTTCAGTAAGTGACTTTGAGGCAGTTACCT
11773 T C A TTGGACTGACAGAGGGAGTAATTGAGTTACCTGTTAATATTTTCAGTAAGTGACTTTGAGGCAGTTACCT
11773 tS [AC] AGACAGAAAATAAGAGGTAACTGCCTCAAAGTCACTTACTGAAAATATTAACAGGTAACT[AC]AATTACTCCCTCTGTCAGTCCAAACATCTCTAAAAGCCAGTTCTACATCTTAGTAAGCTA
11800 I S GCCAATCACTGGTCCGAACACCTGATTCCTCA
11800 P G S ATGACGTGGCAGACCCCTCACACCCCCY
11800 P A S CGCGCCGAGGTCCTCACACCCCCGY
11800 T G S AGGACGGGGGTGTGAGGGGAGGAATCAGGTGTTCGGACCAGTGATTGGCTG
11800 T A S AGGACGGGGGTGTGAGGAGAGGAATCAGGTGTTCGGACCAGTGATTGGCTG
11800 tS [GA] AGAGGGCGAGAGCATTTTCGCTCCTAACCAATCACTTATCCCCAGGACGGGGGTGTGAGG[GA]GAGGAATCAGGTGTTCGGACCAGTGATTGGCTGGAGAAAATAGTCCTCCCCACCAATGAG
11858 I S GCCATCATTGGAGATCCGATTCCCTGATCTCTGAT
11858 P T S CGCGCCGAGGATCCAGATATAGCCAAGGAY
11858 P C S ATGACGTGGCAGACGTCCAGATATAGCCAAGGAY
11858 T T S GTTTTCCTTGGCTATATCTGGATTCAGAGATCAGGGAATCGGATCTCCAATGATGGCTG
11858 T C S GTTTTCCTTGGCTATATCTGGACTCAGAGATCAGGGAATCGGATCTCCAATGATGGCTG
11858 tS [TC] CTACAGCCCTGTTCCAGCTGCACTAGGAAGGAAGGTGGGTTTTCCTTGGCTATATCTGGA[TC]TCAGAGATCAGGGAATCGGATCTCCAATGATGGCTGGTCAGCGCCCAGGCTGGAGCAGTGA
FUT7

FIGURE 129E

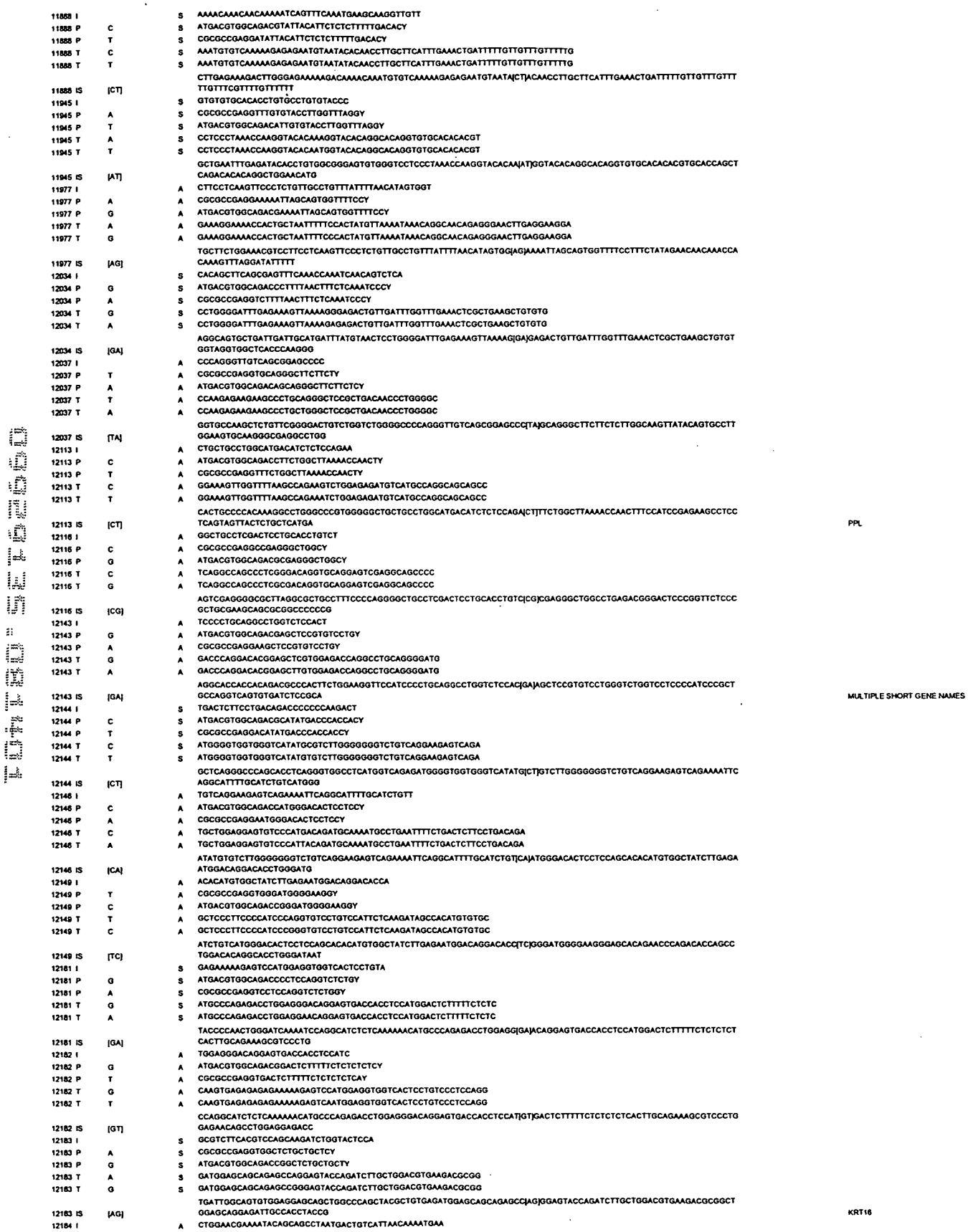

11868 I S AAAACAAACAACAAAAATCAGTTTCAAATGAAGCAAGGTTGTT
11888 P C S ATGACGTGGCAGACGTATTACATTCTCTCTTTTTGACACY
11888 P T S CGCGCCGAGGATATTACATTCTCTCTTTTTGACACY
11888 T C S AAATGTGTCAAAAAGAGAGAATGTAATACACAACCTTGCTTCATTTGAAACTGATTTTTGTTGTTTGTTTTTG
11888 T T S AAATGTGTCAAAAAGAGAGAATGTAATATACAACCTTGCTTCATTTGAAACTGATTTTTGTTGTTTGTTTTTG
11888 IS [CT] CTTGAGAAAGACTTGGGAGAAAAAGACAAAACAAATGTGTCAAAAAGAGAGAATGTAATA[CT]ACAACCTTGCTTCATTTGAAACTGATTTTTGTTGTTTGTTT TTGTTTCGTTTTGTTTTTT
11945 I S GTGTGTGCACACCTGTGCCTGTGTACCC
11945 P A S CGCGCCGAGGTTTGTGTACCTTGGTTTAGGY
11945 P T S ATGACGTGGCAGACATTGTGTACCTTGGTTTAGGY
11945 T A S CCTCCCTAAACCAAGGTACACAAAGGTACACAGGCACAGGTGTGCACACACGT
11945 T T S CCTCCCTAAACCAAGGTACACAATGGTACACAGGCACAGGTGTGCACACACGT
11945 IS [AT] GCTGAATTTGAGATACACCTGTGGCGGGAGTGTGGGTCCTCCCTAAACCAAGGTACACAA[AT]GGTACACAGGCACAGGTGTGCACACACGTGCACCAGCT CAGACACACAGGCTGGAACATG
11977 I A CTTCCTCAAGTTCCCTCTGTTGCCTGTTTATTTTAACATAGTGGT
11977 P A A CGCGCCGAGGAAAAATTAGCAGTGGTTTTCCY
11977 P G A ATGACGTGGCAGACGAAAATTAGCAGTGGTTTTCCY
11977 T A A GAAAGGAAAACCACTGCTAATTTTTCCACTATGTTAAAATAAACAGGCAACAGAGGGAACTTGAGGAAGGA
11977 T G A GAAAGGAAAACCACTGCTAATTTTCCCACTATGTTAAAATAAACAGGCAACAGAGGGAACTTGAGGAAGGA
11977 IS [AG] TGCTTCTGGAAACGTCCTTCCTCAAGTTCCCTCTGTTGCCTGTTTATTTTAACATAGTGG[AG]AAAATTAGCAGTGGTTTTCCTTTCTATAGAACAACAAACCA CAAAGTTTAGGATATTTTT
12034 I S CACAGCTTCAGCGAGTTTCAAACCAAATCAACAGTCTCA
12034 P G S ATGACGTGGCAGACCCTTTTAACTTTCTCAAATCCCY
12034 P A S CGCGCCGAGGTCTTTTAACTTTCTCAAATCCCY
12034 T G S CCTGGGGATTTGAGAAAGTTAAAAGGGAGACTGTTGATTTGGTTTGAAACTCGCTGAAGCTGTGTG
12034 T A S CCTGGGGATTTGAGAAAGTTAAAAGAGAGACTGTTGATTTGGTTTGAAACTCGCTGAAGCTGTGTG
12034 IS [GA] AGGCAGTGCTGATTGATTGCATGATTTATGTAACTCCTGGGGATTTGAGAAAGTTAAAAG[GA]GAGACTGTTGATTTGGTTTGAAACTCGCTGAAGCTGTGT GGTAGGTGGCTCACCCAAGGG
12037 I A CCCAGGGTTGTCAGCGGAGCCCC
12037 P T A CGCGCCGAGGTGCAGGGCTTCTTCTY
12037 P A A ATGACGTGGCAGACAGCAGGGCTTCTTCTCY
12037 T T A CCAAGAGAAGAAGCCCTGCAGGGCTCCGCTGACAACCCTGGGGC
12037 T A A CCAAGAGAAGAAGCCCTGCTGGGCTCCGCTGACAACCCTGGGGC
12037 IS [TA] GGTGCCAAGCTCTGTTCGGGGACTGTCTGGTCTGGGGCCCCAGGGTTGTCAGCGGAGCCC[TA]GCAGGGCTTCTTCTCTTGGCAAGTTATACAGTGCCTT GGAAGTGCAAGGGCGAGGCCTGG
12113 I A CTGCTGCCTGGCATGACATCTCTCCAGAA
12113 P C A ATGACGTGGCAGACCTTCTGGCTTAAAACCAACTY
12113 P T A CGCGCCGAGGTTTCTGGCTTAAAACCAACTY
12113 T C A GGAAAGTTGGTTTTAAGCCAGAAGTCTGGAGAGATGTCATGCCAGGCAGCAGCC
12113 T T A GGAAAGTTGGTTTTAAGCCAGAAATCTGGAGAGATGTCATGCCAGGCAGCAGCC
12113 IS [CT] CACTGCCCCACAAAGGCCTGGGCCCGTGGGGGCTGCTGCCTGGCATGACATCTCTCCAGA[CT]TTCTGGCTTAAAACCAACTTTCCATCCGAGAAGCCTCC TCAGTAGTTACTCTGCTCATGA PPL
12116 I A GGCTGCCTCGACTCCTGCACCTGTCT
12116 P C A CGCGCCGAGGCCGAGGGCTGGCY
12116 P G A ATGACGTGGCAGACGCGAGGGCTGGCY
12116 T C A TCAGGCCAGCCCTCGGGACAGGTGCAGGAGTCGAGGCAGCCCC
12116 T G A TCAGGCCAGCCCTCGCGACAGGTGCAGGAGTCGAGGCAGCCCC
12116 IS [CG] AGTCGAGGGGCGCTTAGGCGCTGCCTTCCCCAGGGGCTGCCTCGACTCCTGCACCTGTC[CG]CGAGGGCTGGCCTGAGACGGGACTCCCGGTTCTCCC GCTGCGAAGCAGCGCGGCCCCCCG
12143 I A TCCCCTGCAGGCCTGGTCTCCACT
12143 P G A ATGACGTGGCAGACGAGCTCCGTGTCCTGY
12143 P A A CGCGCCGAGGAAGCTCCGTGTCCTGY
12143 T G A GACCCAGGACACGGAGCTCGTGGAGACCAGGCCTGCAGGGGATG
12143 T A A GACCCAGGACACGGAGCTTGTGGAGACCAGGCCTGCAGGGGATG
12143 IS [GA] AGGCACCACCACAGACGCCCACTTCTGGAAGGTTCCATCCCCTGCAGGCCTGGTCTCCAC[GA]AGCTCCGTGTCCTGGGTCTGGTCCTCCCCATCCCGCT GCCAGGTCAGTGTGATCTCCGCA MULTIPLE SHORT GENE NAMES
12144 I S TGACTCTTCCTGACAGACCCCCCCAAGACT
12144 P C S ATGACGTGGCAGACGCATATGACCCACCACY
12144 P T S CGCGCCGAGGACATATGACCCACCACCY
12144 T C S ATGGGGTGGTGGGTCATATGCGTCTTGGGGGGGTCTGTCAGGAAGAGTCAGA
12144 T T S ATGGGGTGGTGGGTCATATGTGTCTTGGGGGGGTCTGTCAGGAAGAGTCAGA
12144 IS [CT] GCTCAGGGCCCAGCACCTCAGGGTGGCCTCATGGTCAGAGATGGGGTGGTGGGTCATATG[CT]GTCTTGGGGGGGTCTGTCAGGAAGAGTCAGAAAATTC AGGCATTTTGCATCTGTCATGGG
12146 I A TGTCAGGAAGAGTCAGAAAATTCAGGCATTTTGCATCTGTT
12146 P C A ATGACGTGGCAGACCATGGGACACTCCTCCY
12146 P A A CGCGCCGAGGAATGGGACACTCCTCCY
12146 T C A TGCTGGAGGAGTGTCCCATGACAGATGCAAAATGCCTGAATTTTCTGACTCTTCCTGACAGA
12146 T A A TGCTGGAGGAGTGTCCCATTACAGATGCAAAATGCCTGAATTTTCTGACTCTTCCTGACAGA
12146 IS [CA] ATATGTGTCTTGGGGGGGTCTGTCAGGAAGAGTCAGAAAATTCAGGCATTTTGCATCTGT[CA]ATGGGACACTCCTCCAGCACACATGTGGCTATCTTGAGA ATGGACAGGACACCTGGGATG
12149 I A ACACATGTGGCTATCTTGAGAATGGACAGGACACCA
12149 P T A CGCGCCGAGGTGGGATGGGGAAGGY
12149 P C A ATGACGTGGCAGACCGGGATGGGGAAGGY
12149 T T A GCTCCCTTCCCCATCCCAGGTGTCCTGTCCATTCTCAAGATAGCCACATGTGTGC
12149 T C A GCTCCCTTCCCCATCCCGGGTGTCCTGTCCATTCTCAAGATAGCCACATGTGTGC
12149 IS [TC] ATCTGTCATGGGACACTCCTCCAGCACACATGTGGCTATCTTGAGAATGGACAGGACACC[TC]GGGATGGGGAAGGGAGCACAGAACCCAGACACCAGCC TGGACACAGGCACCTGGGATAAT
12181 I S GAGAAAAAGAGTCCATGGAGGTGGTCACTCCTGTA
12181 P G S ATGACGTGGCAGACCCCTCCAGGTCTCTGY
12181 P A S CGCGCCGAGGTCCTCCAGGTCTCTGGY
12181 T G S ATGCCCAGAGACCTGGAGGGACAGGAGTGACCACCTCCATGGACTCTTTTTCTCTC
12181 T A S ATGCCCAGAGACCTGGAGGAACAGGAGTGACCACCTCCATGGACTCTTTTTCTCTC
12181 IS [GA] TACCCCAACTGGGATCAAAATCCAGGCATCTCTCAAAAAACATGCCCAGAGACCTGGAGG[GA]ACAGGAGTGACCACCTCCATGGACTCTTTTTCTCTCTCT CACTTGCAGAAAGCGTCCCTG
12182 I A TGGAGGGACAGGAGTGACCACCTCCATC
12182 P G A ATGACGTGGCAGACGGACTCTTTTTCTCTCTCTCY
12182 P T A CGCGCCGAGGTGACTCTTTTTCTCTCTCTCAY
12182 T G A CAAGTGAGAGAGAGAAAAAGAGTCCATGGAGGTGGTCACTCCTGTCCCTCCAGG
12182 T T A CAAGTGAGAGAGAGAAAAAGAGTCAATGGAGGTGGTCACTCCTGTCCCTCCAGG
12182 IS [GT] CCAGGCATCTCTCAAAAAACATGCCCAGAGACCTGGAGGGACAGGAGTGACCACCTCCAT[GT]GACTCTTTTTCTCTCTCACTTGCAGAAAGCGTCCCTG GAGAACAGCCTGGAGGAGACC
12183 I S GCGTCTTCACGTCCAGCAAGATCTGGTACTCCA
12183 P A S CGCGCCGAGGTGGCTCTGCTGCTCY
12183 P G S ATGACGTGGCAGACCGGCTCTGCTGCTY
12183 T A S GATGGAGCAGCAGAGCCAGGAGTACCAGATCTTGCTGGACGTGAAGACGCGG
12183 T G S GATGGAGCAGCAGAGCCGGGAGTACCAGATCTTGCTGGACGTGAAGACGCGG
12183 IS [AG] TGATTGGCAGTGTGGAGGAGCAGCTGGCCCAGCTACGCTGTGAGATGGAGCAGCAGAGCC[AG]GGAGTACCAGATCTTGCTGGACGTGAAGACGCGGCT GGAGCAGGAGATTGCCACCTACCG KRT16
12184 I A CTGGAACGAAAATACAGCAGCCTAATGACTGTCATTAACAAAATGAA

FIGURE 129E

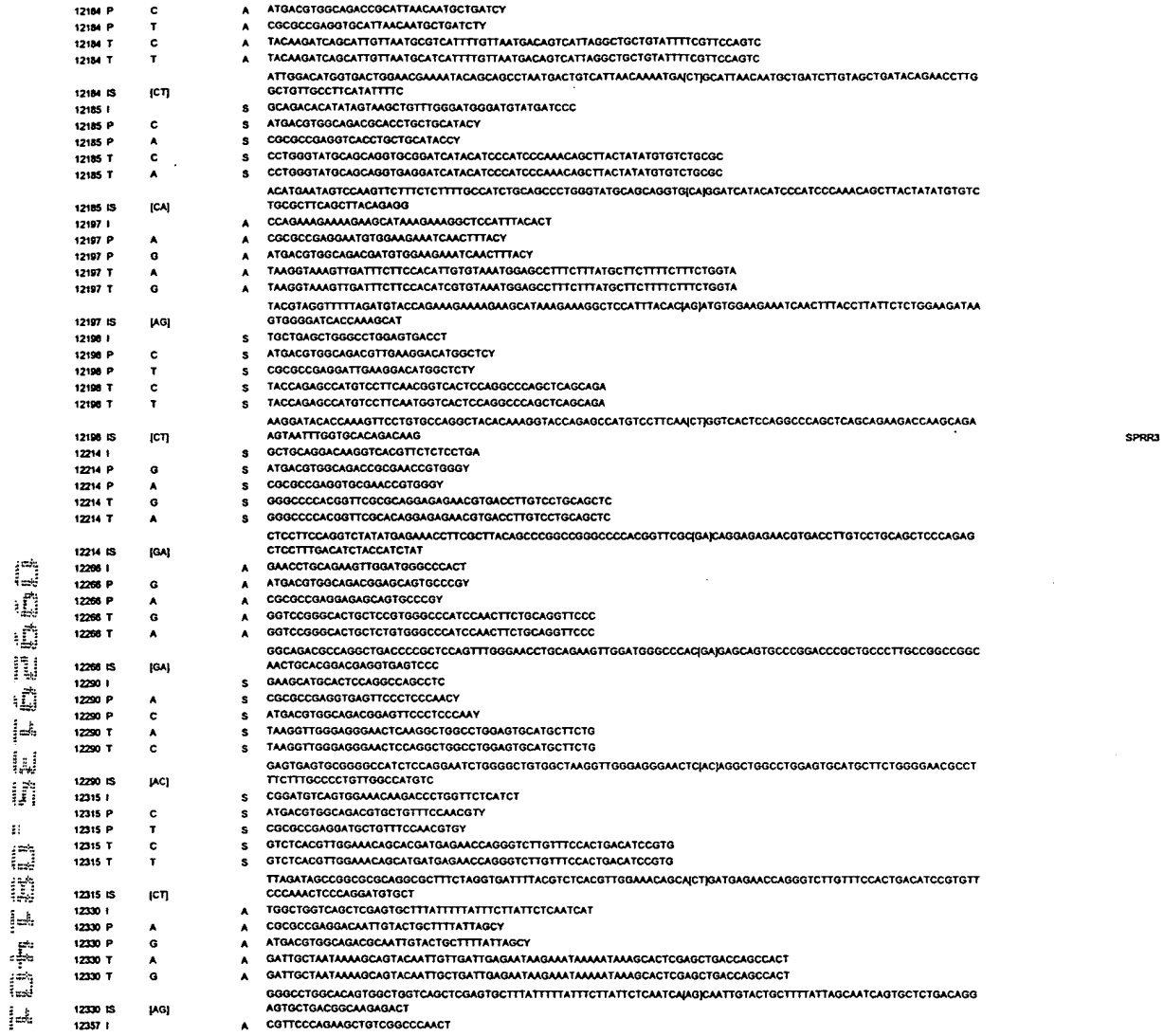
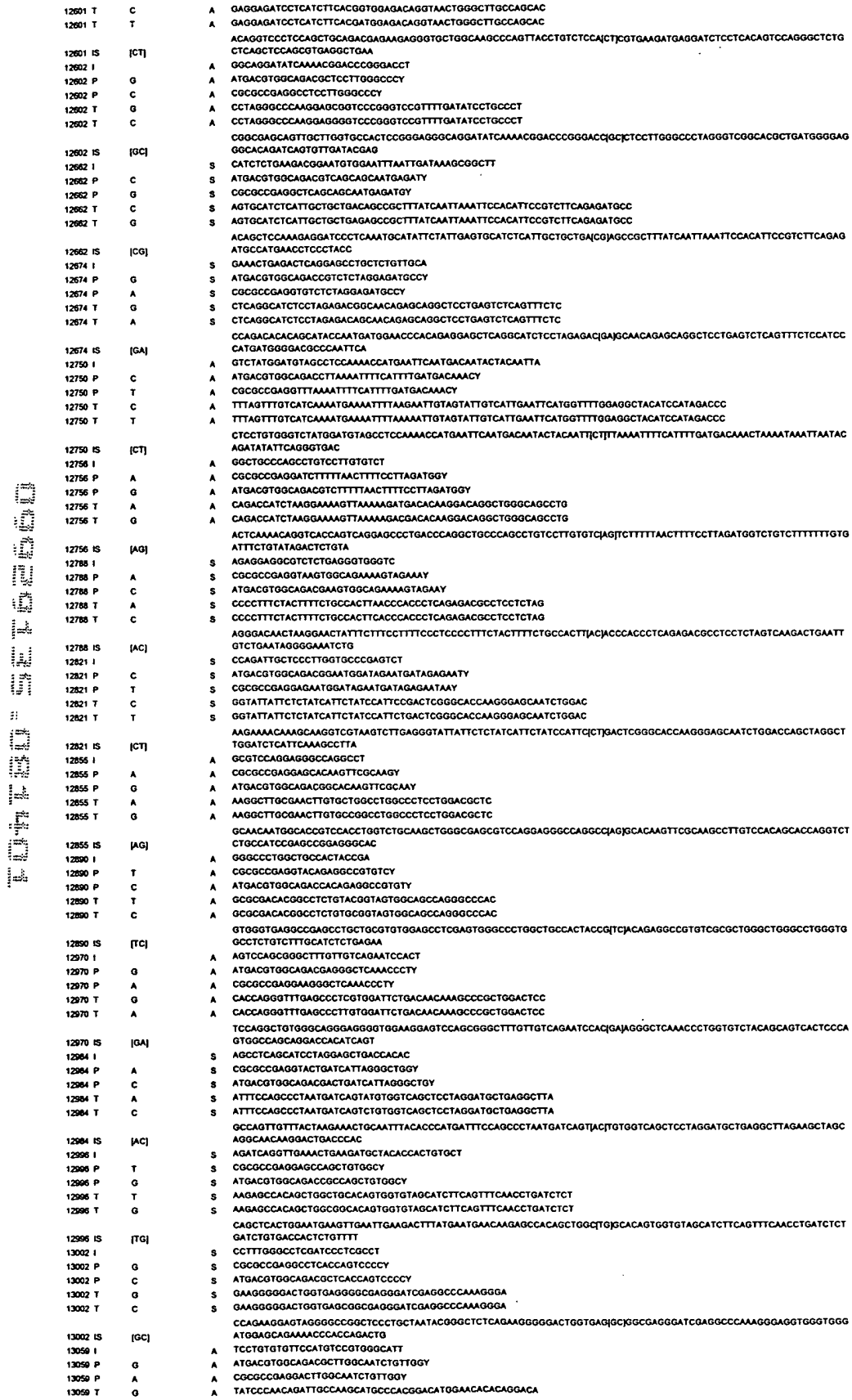


FIGURE 129E

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12382 P    T      S  CGCGCCGAGGACCGGGGCTGGAY
12382 T    C      S  GCCATCCAGCCCCGGCGCAAGCACTCACAGGGGTGCCGGGC
12382 T    T      S  GCCATCCAGCCCCGGTGCAAGCACTCACAGGGGTGCCGGGC
                     CTGAGATTCAGGCAGGTGTCCACAGAGGCGTGAGCGGCTCTCACAGCCATCCAGCCCCGG[CT]GCAAGCACTCACAGGGGTGCCGGGCCTTCACTCCCT
12382 IS   [CT]      GATGTTTAGACACACTAACTGCTT
12383 I            A  GGGCTTGCGTCTCCTGTTACAGGCTATGGT
12383 P    G       A  ATGACGTGGCAGACGTCTGCATTTTACCCACAY
12383 P    A       A  CGCGCCGAGGATCTGCATTTTACCCACAGY
12383 T    G       A  GTACCTGTGGGTAAAATGCAGACCCATAGCCTGTAACAGGAGACGCAAGCCCAT
12383 T    A       A  GTACCTGTGGGTAAAATGCAGATCCATAGCCTGTAACAGGAGACGCAAGCCCAT
                     GACTAAAGAACTGCAGGGACATGGGTGCAATGGGCTTGCGTCTCCTGTTACAGGCTATGG[GA]TCTGCATTTTACCCACAGGTACACTTTGATCCCCACCTC
12383 IS   [GA]      CATACTGCTGGGACTCGGGGC
12387 I            A  CAGAACACGAATAGGATTTTCCACCTCCCAAAGTGTCTTAAATA
12387 P    C       A  ATGACGTGGCAGACCGAGTCTAGGGACATGTY
12387 P    T       A  CGCGCCGAGGTGAGTCTAGGGACATGTGY
12387 T    C       A  TAGGCACATGTCCCTAGACTCGATTTAAGACACTTTGGGAGGTGGAAAATCCTATTCGTGTTCTGCA
12387 T    T       A  TAGGCACATGTCCCTAGACTCAATTTAAGACACTTTGGGAGGTGGAAAATCCTATTCGTGTTCTGCA
                     TCTTCCCTGAATCTTTGCAGAACACGAATAGGATTTTCCACCTCCCAAAGTGTCTTAAAT[CT]GAGTCTAGGGACATGTGCCTAGACTCGATCTAAATCTATT
12387 IS   [CT]      TTGAGACACTGGGTCTTTCC
12398 I            A  GGTTAGTCCAGCTAGAAAGTCCTCCTCTGAAAAACAAGCAT
12398 P    G       A  ATGACGTGGCAGACGCCTCATGTCCTGGCY
12398 P    A       A  CGCGCCGAGGACCTCATGTCCTGGCY
12398 T    G       A  CAAGGCCAGGACATGAGGCTGCTTGTTTTTCAGAGGAGGACTTTCTAGCTGGACTAACCAG
12398 T    A       A  CAAGGCCAGGACATGAGGTTGCTTGTTTTTCAGAGGAGGACTTTCTAGCTGGACTAACCAG
                     CTGCAGAAACCCGAAGGTCTGGTTAGTCCAGCTAGAAAGTCCTCCTCTGAAAAACAAGCA[GA]CCTCATGTCCTGGCCTTGTTGGCATCTTCCCAGGTCAGA
12398 IS   [GA]      CGCCCATCTGGCATCCCCTCT
12402 I            S  GCAGATACTGACCTTACTTTCATTTCCCCTCTGGTCACA
12402 P    A       S  CGCGCCGAGGTAGACCCCTGGGGCY
12402 P    G       S  ATGACGTGGCAGACCAGACCCCTGGGGY
12402 T    A       S  GAAAGCCCCAGGGGTCTAGTGACCAGAGGGGAAATGAAAGTAAGGTCAGTATCTGCCT
12402 T    G       S  GAAAGCCCCAGGGGTCTGGTGACCAGAGGGGAAATGAAAGTAAGGTCAGTATCTGCCT
                     CCTAGCCTGCCCTGAATGTGATTCTCTCATCAATGTCATTGGTGAAAGCCCCAGGGGTCT[AG]GTGACCAGAGGGGAAATGAAAGTAAGGTCAGTATCTGC
12402 IS   [AG]      CTAACCCAATACCCTGATGCGG
12428 I            S  GGACAGGATATAGCTCTGTGCCATCGTAGGCTGA
12428 P    G       S  ATGACGTGGCAGACCACTGTCACCATCCCAY
12428 P    A       S  CGCGCCGAGGTACTGTCACCATCCCAGY
12428 T    G       S  CAGTCTGGGATGGTGACAGTGCAGCCTACGATGGCACAGAGCTATATCCTGTCCTT
12428 T    A       S  CAGTCTGGGATGGTGACAGTACAGCCTACGATGGCACAGAGCTATATCCTGTCCTT
                     TAATTTCTGTAAGGACACTCCCATCTGACCTACAGTCAGTCAGTCTGGGATGGTGACAGT[GA]CAGCCTACGATGGCACAGAGCTATATCCTGTCCTTTTTT
12428 IS   [GA]      TTTCTCATATGAACAATTGGA
12452 I            A  AGGCCTTTTTGAAGGACCTAATTATCCCAAACCTGGTCA
12452 P    C       A  ATGACGTGGCAGACCGGTCGGTACCTTGATY
12452 P    T       A  CGCGCCGAGGTGGTCGGTACCTTGATTY
12452 T    C       A  GGTCAATCAAGGTACCGACCGGACCAGGTTTGGGATAATTAGGTCCTTCAAAAAGGCCTCC
12452 T    T       A  GGTCAATCAAGGTACCGACCAGACCAGGTTTGGGATAATTAGGTCCTTCAAAAAGGCCTCC
                     GTTTTATCCATGTCCTTCTTGGAGGCCTTTTTGAAGGACCTAATTATCCCAAACCTGGTC[CT]GGTCGGTACCTTGATTGACCCGCTAAAACCTAAGTCTTGT
12452 IS   [CT]      TAAAAGCATCTGACAGCCGC
12457 I            S  CTTCACCACCCCCACGTGACGCCA
12457 P    G       S  ATGACGTGGCAGACCTGCCCTTTGCTTGTGY
12457 P    A       S  CGCGCCGAGGTTGCCCTTTGCTTGTGY
12457 T    G       S  GAGACACAAGCAAAGGGCAGGGCGTCACGTGGGGGTGGTGAAGGC
12457 T    A       S  GAGACACAAGCAAAGGGCAAGGCGTCACGTGGGGGTGGTGAAGGC
                     CTTACTTCCAATGAGTGGAGTCAGGGCTGTTATCAAACCCAGAGACACAAGCAAAGGGCA[GA]GGCGTCACGTGGGGGTGGTGAAGGCTTCTCTGGGGAC
12457 IS   [GA]      CCTTCAAGCCTGGCTGCCATGAG
12465 I            A  CCTGGTTTGTATCCTGGACCCCCTGCCA
12465 P    C       A  ATGACGTGGCAGACCGGACTGTGTGGCGY
12465 P    T       A  CGCGCCGAGGTGGACTGTGTGGCGY
12465 T    C       A  GCTTCGCCACACAGTCCGGGCAGGGGGTCCAGGATACAAACCAGGTG
12465 T    T       A  GCTTCGCCACACAGTCCAGGCAGGGGGTCCAGGATACAAACCAGGTG
                     ACCAGCTGCCTGCTTACAAGTGTTTCCAGATCACCTGGTTTGTATCCTGGACCCCCTGCC[CT]GGACTGTGTGGCGAAGCTGGCCGAATTCCTGTCTGAGC
12465 IS   [CT]      ACCCCAATGTCACCCTGACCAT
12472 I            S  GGGCATGAGCTCTCCATTTGCCACAATCCAA
12472 P    G       S  ATGACGTGGCAGACCACCCCTCCCTGGY
12472 P    A       S  CGCGCCGAGGTACCCCTCCCTGGAGY
12472 T    G       S  GAGGCTCCAGGGAGGGGTGTGGATTGTGGCAAATGGAGAGCTCATGCCCTA
12472 T    A       S  GAGGCTCCAGGGAGGGGTATGGATTGTGGCAAATGGAGAGCTCATGCCCTA
                     GCCCACTTTGGGTACATAAATGAGTGGAGTCAGGCTGGGTATGAGGCTCCAGGGAGGGGT[GA]TGGATTGTGGCAAATGGAGAGCTCATGCCCTATCTGA
12472 IS   [GA]      ACTGGACAACTGCTGCTTGGTCC
12492 I            S  AGACTCTGTCTGAATGAGGATTTCAATCTCAAGTCTAGGATGTGATTTCT
12492 P    T       S  CGCGCCGAGGATCTGGTAAATGTCTTATGGAAY
12492 P    C       S  ATGACGTGGCAGACGTCTGGTAAATGTCTTATGGAY
12492 T    T       S  AGCCTTCCATAAGACATTTACCAGATGAAATCACATCCTAGACTTGAGATTGAAATCCTCATTCAGACAGAGTCTTC
12492 T    C       S  AGCCTTCCATAAGACATTTACCAGACGAAATCACATCCTAGACTTGAGATTGAAATCCTCATTCAGACAGAGTCTTC
                     TCCCAACTCAGCAGTACCTCATTAGGCTGCTCCTCAGCCTTCCATAAGACATTTACCAGA[TC]GAAATCACATCCTAGACTTGAGATTGAAATCCTCATTCAG
12492 IS   [TC]      ACAGAGTCTTCAGCAATGAG
12494 I            S  CCTCTCCAGATTCCTGTGAGCCCCTCCTA
12494 P    A       S  CGCGCCGAGGTCTCCTCCACTTTACTGAGY
12494 P    G       S  ATGACGTGGCAGACCCTCCTCCACTTTACTGAY
12494 T    A       S  AAGACTCAGTAAAGTGGAGGAGAAGGAGGGGCTCACAGGAATCTGGAGAGGAG
12494 T    G       S  AAGACTCAGTAAAGTGGAGGAGGAGGAGGGGCTCACAGGAATCTGGAGAGGAG
                     TCAAAAGTACTCTGAGTTCTCTCAGGGGAACTCTGGAAAAGACTCAGTAAAGTGGAGGAG[AG]AGGAGGGGCTCACAGGAATCTGGAGAGGAGACTGTGCA
12494 IS   [AG]      AAACCCTCAAAAGTTCTCTGAG                                                                                    MAGEC1
12497 I            S  GTATTTTCCAGAGTTCCCCTGAGAGAACTCAGAGC
12497 P    T       S  CGCGCCGAGGAACTTTTGAGGGTTTTGCAY
12497 P    A       S  ATGACGTGGCAGACTACTTTTGAGGGTTTTGCAY
12497 T    T       S  ACTGTGCAAAACCCTCAAAAGTTCTCTGAGTTCTCTCAGGGGAACTCTGGAAAATACTC
12497 T    A       S  ACTGTGCAAAACCCTCAAAAGTACTCTGAGTTCTCTCAGGGGAACTCTGGAAAATACTC
                     GGAGGAGGAGGAGGGGCTCACAGGAATCTGGAGAGGAGACTGTGCAAAACCCTCAAAAGT[TA]CTCTGAGTTCTCTCAGGGGAACTCTGGAAAATACTCAA
12497 IS   [TA]      TAAAGTGGAGGAGAAGGAGCGG                                                                                    MAGEC1
12546 I            S  CGATTAGAATCCCAAGTCCCTGCCTGTTGGAATTCA
12546 P    A       S  CGCGCCGAGGTTTAGAAATTTCATTTCTCAAATTTCTTY
12546 P    G       S  ATGACGTGGCAGACCTTAGAAATTTCATTTCTCAAATTTCTY
12546 T    A       S  ATCCAAGAAATTTGAGAAATGAAATTTCTAAAGAATTCCAACAGGCAGGGACTTGGGATTCTAATCGGG
12546 T    G       S  ATCCAAGAAATTTGAGAAATGAAATTTCTAAGGAATTCCAACAGGCAGGGACTTGGGATTCTAATCGGG
                     ATCAGGCTGTGCTCTAATCTTGATGCCCAATCCAAGAAATTTGAGAAATGAAATTTCTAA[AG]GAATTCCAACAGGCAGGGACTTGGGATTCTAATCGGGAGT
12546 IS   [AG]      GTTGGTATTATGCAATAGAA
12601 I            A  GCTGGCAAGCCCAGTTACCTGTCTCCAA
12601 P    C       A  ATGACGTGGCAGACCCGTGAAGATGAGGATCTY
12601 P    T       A  CGCGCCGAGGTCGTGAAGATGAGGATCTY
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FIGURE 129E



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FIGURE 129E

13059	T	A	A	TATCCCAACAGATTGCCAAGTATGCCCACGGACATGGAACACACAGGACA
13059	IS	[GA]		TGTTGTCATCAGAAAGGCAAGATGTAGGTAATGTCCTGTGTGTTCCATGTCCGTGGGCAT[GA]CTTGGCAATCTGTTGGGATAGCAATATAATTTGTTAGTTT GTGAAAGAATAATGGATCCT
13128	I		S	GGTCTGAAACAGACTAGGGAGCGGGGAAGAATTCT
13128	P	C	S	ATGACGTGGCAGACGTGTGAATGCAGGACGY
13128	P	T	S	CGCGCCGAGGATGTGAATGCAGGACGY
13128	T	C	S	CCCACGTCCTGCATTCACACGAATTCTTCCCCGCTCCCTAGTCTGTTTCAGACCAG
13128	T	T	S	CCCACGTCCTGCATTCACATGAATTCTTCCCCGCTCCCTAGTCTGTTTCAGACCAG
13128	IS	[CT]		TTAAAAGTACTCCACTGAACAGTGAAATATTTCCAGACTCACCCACGTCCTGCATTCACA[CT]GAATTCTTCCCCGCTCCCTAGTCTGTTTCAGACCAGAAGC CCTGGGCTTCTCTGACTAGC
13278	I		A	GGAGGTGTGACTGCGCCCTGCCT
13278	P	G	A	ATGACGTGGCAGACGTGGGGTCGGAGAGY
13278	P	A	A	CGCGCCGAGGATGGGGTCGGAGAGY
13278	T	G	A	CACCCTCTCCGACCCCACGGCAGGGCGCAGTCACACCTCCTG
13278	T	A	A	CACCCTCTCCGACCCCATGGCAGGGCGCAGTCACACCTCCTG
13278	IS	[GA]		AATACCTGTAGGGAGAGGGGGTAGCGTGGGCGCTCCCAGGAGGTGTGACTGCGCCCTGCC[GA]TGGGGTCGGAGAGGGTGCTCTGGAGCTTCTCGGGC ACAGGACTAGTTGACAGAGTCCAGC
13318	I		A	CTCATGGTCGCATCACCATGAAGCTTCCACTCT
13318	P	A	A	CGCGCCGAGGAGGCGGACAGCTCY
13318	P	G	A	ATGACGTGGCAGACGGGCGGACAGCTCY
13318	T	A	A	TCTAGAGCTGTCCGCCTGAGTGGAAGCTTCATGGTGATGCGACCATGAGTG
13318	T	G	A	TCTAGAGCTGTCCGCCCGAGTGGAAGCTTCATGGTGATGCGACCATGAGTG
13318	IS	[AG]		ACGAACAATCAGGAGATGGCTCCAGGCACTCATGGTCGCATCACCATGAAGCTTCCACTC[AG]GGCGGACAGCTCTAGACACTCACAGTCCGGCCAGGGA CAATCAGCGGGGCCCAGGACAAG
13320	I		A	CTCAGGCGGACAGCTCTAGACACTCACAGTCT
13320	P	C	A	ATGACGTGGCAGACCGGCCAGGGACAAY
13320	P	A	A	CGCGCCGAGGAGGCCAGGGACAATCY
13320	T	C	A	CGCTGATTGTCCCTGGCCGGACTGTGAGTGTCTAGAGCTGTCCGCCTGAGTG
13320	T	A	A	CGCTGATTGTCCCTGGCCTGACTGTGAGTGTCTAGAGCTGTCCGCCTGAGTG
13320	IS	[CA]		CTCATGGTCGCATCACCATGAAGCTTCCACTCAGGCGGACAGCTCTAGACACTCACAGTC[CA]GGCCAGGGACAATCAGCGGGGCCCAGGACAAGCAGGA ACCAGGGATCCAGTGTTAGCCAG
13355	I		S	GGGTACAGCCGGCCAGCAGAGGTA
13355	P	G	S	ATGACGTGGCAGACCGATTCTACAGGACTGACAY
13355	P	A	S	CGCGCCGAGGTGATTCTACAGGACTGACAY
13355	T	G	S	CTACTGTCAGTCCTGTAGAATCGACCTCTGCTGGCCGGCTGTACCCTG
13355	T	A	S	CTACTGTCAGTCCTGTAGAATCAACCTCTGCTGGCCGGCTGTACCCTG
13355	IS	[GA]		AGGACACATAGGACTCCACAGAGTCTGGCCTCACCTCCCTACTGTCAGTCCTGTAGAATC[GA]ACCTCTGCTGGCCGGCTGTACCCTGAGTACCCTCTCAC TTCCTCCTTCAGGTTTTCAGGG
13430	I		A	ACCTCCATCCCTCCGTCTTGCTCCTGTTC
13430	P	A	A	CGCGCCGAGGACTCTCTGCAGAGTGGY
13430	P	T	A	ATGACGTGGCAGACTCTCTCTGCAGAGTGGY
13430	T	A	A	GCTGCCACTCTGCAGAGAGTAACAGGAGCAAGACGGAGGGATGGAGGTGA
13430	T	T	A	GCTGCCACTCTGCAGAGAGAAACAGGAGCAAGACGGAGGGATGGAGGTGA
13430	IS	[AT]		CTTGGCTTCGGTTTTAGCATTCTGCTGTCATCACCTCCATCCCTCCGTCTTGCTCCTGTT[AT]CTCTCTGCAGAGTGGCAGCCAGCGGTGCAGATTCTCTTG TACTCCTTGATATTCCTGCTC
13551	I		S	ACGGGACAGGGGTTCTACAGCAGAAGGAA
13551	P	A	S	CGCGCCGAGGTAGGACTGACAGTGTGTGY
13551	P	G	S	ATGACGTGGCAGACCAGGACTGACAGTGTGTY
13551	T	A	S	CAGACACACACTGTCAGTCCTATCCTTCTGCTGTAGAACCCCTGTCCCGTCT
13551	T	G	S	CAGACACACACTGTCAGTCCTGTCCTTCTGCTGTAGAACCCCTGTCCCGTCT
13551	IS	[AG]		CAGTCTGTTGCTGGCTTCTGTTTGCAGTTGGCATGTGAGCAGACACACACTGTCAGTCCT[AG]TCCTTCTGCTGTAGAACCCCTGTCCCGTCTGACACACCC ACAGTCAGGCTTCTTAAAGAT
13725	I		A	CCAGCATAGCCGGGTCCAATAACCCTCCC
13725	P	T	A	CGCGCCGAGGTTCCCGCGTCCGY
13725	P	A	A	ATGACGTGGCAGACATCCCGCGTCCGY
13725	T	T	A	AGCGCGGACGCGGGAAGGAGGGTTATTGGACCCGGCTATGCTGGAC
13725	T	A	A	AGCGCGGACGCGGGATGGAGGGTTATTGGACCCGGCTATGCTGGAC
13725	IS	[TA]		GGGAAAACCTTTGGCCTCAAAGGTCCTTCTGTCCAGCATAGCCGGGTCCAATAACCCTCC[TA]TCCCGCGTCCGCGCTTACCCAATACAAGCCGGGCTACG TCCGAGGGTAACAACATGATCA
13746	I		S	CCTGCCCTGCCCAGAGAGAGGGGA
13746	P	G	S	ATGACGTGGCAGACCGGCCGGAGAGCY
13746	P	A	S	CGCGCCGAGGTGGCCGGAGAGCY
13746	T	G	S	AGGGGCTCTCCGGCCGCCCCTCTCTCTGGGCAGGGCAGGAT
13746	T	A	S	AGGGGCTCTCCGGCCACCCCTCTCTCTGGGCAGGGCAGGAT
13746	IS	[GA]		ACTCCACCTTTCACCTCTGCCTCTGTCCCCCAGGTGTGTCCTCACAGGGGCTCTCCGGCC[GA]CCCCTCTCTCTGGGCAGGGCAGGATGTCTCCGTTGGA GCCTCCTCCCACAGCTGATCCAT
13754	I		S	CGCGGTTGCCAGAGAAAGCCCCGT
13754	P	C	S	ATGACGTGGCAGACGACGTGACGGATTTGCY
13754	P	T	S	CGCGCCGAGGAACGTGACGGATTTGCY
13754	T	C	S	TCGCGCAAATCCGTCACGTCCGGGGCTTTCTCTGGCAACCGCGCG
13754	T	T	S	TCGCGCAAATCCGTCACGTTCGGGGCTTTCTCTGGCAACCGCGCG
13754	IS	[CT]		GGGAATGACGGATGGGAGGGGGAAGGGCGGGCTGCTTGGGGTCGCGCAAATCCGTCACGT[CT]CGGGGCTTTCTCTGGCAACCGCGCGAGCGTTCCCC GCAACACAGACCCAGGACAGGAGGG
13803	I		A	TGGTGAACAGACTGCAAATCTGTGTTATAGGGCCCATATTAT
13803	P	A	A	CGCGCCGAGGACATAGCACTGATTCAACATATY
13803	P	C	A	ATGACGTGGCAGACCCATAGCACTGATTCAACAY
13803	T	A	A	AGTTATATGTTGAATCAGTGCTATGTTAATATGGGCCCTATAACACAGATTTGCAGTCTGTTCACCACT
13803	T	C	A	AGTTATATGTTGAATCAGTGCTATGGTAATATGGGCCCTATAACACAGATTTGCAGTCTGTTCACCACT
13803	IS	[AC]		ACTATTCTTAGCTATTCAGTGGTGAACAGACTGCAAATCTGTGTTATAGGGCCCATATTA[AC]CATAGCACTGATTCAACATATAACTTACTAAGAGCATGTTT TAGCATTACTGTTAAGAAA
13807	I		S	GTTTTAAATTCTGATGCTTATTTAATTTCTTAACAGTAATGCTAAAACATGCTCTA
13807	P	A	S	CGCGCCGAGGTAGTAAGTTATATGTTGAATCAGTGY
13807	P	G	S	ATGACGTGGCAGACCAGTAAGTTATATGTTGAATCAGTGY
13807	T	A	S	ATAGCACTGATTCAACATATAACTTACTAAGAGCATGTTTTAGCATTACTGTTAAGAAATTAAATAAGCATCAGAATTTAAAACGA
13807	T	G	S	ATAGCACTGATTCAACATATAACTTACTGAGAGCATGTTTTAGCATTACTGTTAAGAAATTAAATAAGCATCAGAATTTAAAACGA
13807	IS	[AG]		CTGCAAATCTGTGTTATAGGGCCCATATTAACATAGCACTGATTCAACATATAACTTACT[AG]AGAGCATGTTTTAGCATTACTGTTAAGAAATTAAATAAGCA TCAGAATTTAAAACGATAA
13859	I		S	ACAGGAACTCCACTGTTAAAGTCAGTAGAATTATAGTAAATAATTCCAAAGC
13859	P	A	S	CGCGCCGAGGTTCATGAGAAATTAGTCACCATY
13859	P	C	S	ATGACGTGGCAGACGTCATGAGAAATTAGTCACCAY
13859	T	A	S	GTCCATGGTGACTAATTTCTCATGAACTTTGGAATTATTTACTATAATTCTACTGACTTTAACAGTGGAGTTCCTGTTA
13859	T	C	S	GTCCATGGTGACTAATTTCTCATGACCTTTGGAATTATTTACTATAATTCTACTGACTTTAACAGTGGAGTTCCTGTTA
13859	IS	[AC]		TTTTAAGAGTGGCTCTCAGGGGTGTTTGTGGTAGTGTCCATGGTGACTAATTTCTCATGA[AC]CTTTGGAATTATTTACTATAATTCTACTGACTTTAACAGTG GAGTTCCTGTTAAGTAAAA
13862	I		A	CGGGGAGAGGAGAGGAAGAGAAGGGGCT
13862	P	G	A	ATGACGTGGCAGACGGTGGGTGGAGGGY
13862	P	A	A	CGCGCCGAGGAGTGGGTGGAGGGY
13862	T	G	A	GGTGCCCTCCACCCACCGCCCCTTCTCTTCCTCTCCTCTCCCCGTC
13862	T	A	A	GGTGCCCTCCACCCACTGCCCCTTCTCTTCCTCTCCTCTCCCCGTC

				CTGACATTTTACTTTGCTCCTCTGCAACACTGACGGGGAGAGGAGAGGAAGAGAAGGGGC[GA]GTGGGTGGAGGGCACCTAGCATGGTGAGTTGGGATGA	
13862	IS	[GA]		GGAGAACTAAATACTTTTCTATA	
13887	I		A	AAGCCACGCCTCCCTGAACCTATCCCT	
13887	P	G	A	ATGACGTGGCAGACGGGACAGGGCCTCY	
13887	P	A	A	CGCGCCGAGGAGGACAGGGCCTCTY	
13887	T	G	A	AGGAAGAGGCCCTGTCCCGGGATAGGTTCAGGGAGGCGTGGCTTGT	
13887	T	A	A	AGGAAGAGGCCCTGTCCTGGGATAGGTTCAGGGAGGCGTGGCTTGT	
				GCCCAAAAAGGGACCCCCATGAAACCGAACACACAAGCCACGCCTCCCTGAACCTATCCC[GA]GGACAGGGCCTCTTCCTCGGCCTTCCCATATTGGTGGC	
13887	IS	[GA]		AGTGGTGCCACACTGAACAGAG	ICAM1
13999	I		S	CACGCCATCCCCACACACCCCAA	
13999	P	G	S	ATGACGTGGCAGACCTCCCTTGCTTCCCAY	
13999	P	A	S	CGCGCCGAGGTTCCCTTGCTTCCCAY	
13999	T	G	S	TGTGTGGGAAGCAAGGGAGTGGGGTGTGTGGGGATGGCGTGGG	
13999	T	A	S	TGTGTGGGAAGCAAGGGAATGGGGTGTGTGGGGATGGCGTGGG	
				GGCTAAAAACCTGAAGAAGATGGACGTAGGAGGACTGTCAGGTGTGTGGGAAGCAAGGGA[GA]TGGGGTGTGTGGGGATGGCGTGGGGTGGGTTCTCGT	
13999	IS	[GA]		TCTGACAGTTTCTGAGCCTCGAGG	
14006	I		A	GCATAGGAGTGAGGAGCTTGGGTCTCCCT	
14006	P	G	A	ATGACGTGGCAGACGCATCCACTGTATGGATGY	
14006	P	C	A	CGCGCCGAGGCCATCCACTGTATGGATGY	
14006	T	G	A	GGAACATCCATACAGTGGATGCGGGAGACCCAAGCTCCTCACTCCTATGCCA	
14006	T	C	A	GGAACATCCATACAGTGGATGGGGGAGACCCAAGCTCCTCACTCCTATGCCA	
				TCTCCCCAGGGGCAGGACGGCAGAGGATGATGGCATAGGAGTGAGGAGCTTGGGTCTCCC[GC]CATCCACTGTATGGATGTTCCAGGGGCTCCAGACTAG	
14006	IS	[GC]		ATAGGTACAAGGCCTACCTGTTT	
14007	I		A	TGAGGGGATTGAGTGCTGGAGGAAATATTTGGGGC	
14007	P	T	A	CGCGCCGAGGTCTAAATGTGCACTTAGGAGY	
14007	P	G	A	ATGACGTGGCAGACGCTAAATGTGCACTTAGGAY	
14007	T	T	A	CATTCTCCTAAGTGCACATTTAGACCCCAAATATTTCCTCCAGCACTCAATCCCCTCACC	
14007	T	G	A	CATTCTCCTAAGTGCACATTTAGCCCCCAAATATTTCCTCCAGCACTCAATCCCCTCACC	
				AGTAGCAGTTTAAGGAGGGGATCTGGTGAGGGGATTGAGTGCTGGAGGAAATATTTGGGG[TG]CTAAATGTGCACTTAGGAGAATGGGCTGAAAAAGAAAT	
14007	IS	[TG]		TAAAACTTTTTTACACTTTACT	
14020	I		A	CGCATACAGTTCCCCCGACACTCGCAA	
14020	P	C	A	ATGACGTGGCAGACCCCTGGAAGGCACCY	
14020	P	T	A	CGCGCCGAGGTCCTGGAAGGCACCY	
14020	T	C	A	GGCTGGTGCCTTCCAGGGTGCGAGTGTCGGGGGAACTGTATGCGGC	
14020	T	T	A	GGCTGGTGCCTTCCAGGATGCGAGTGTCGGGGGAACTGTATGCGGC	
				GAAGAGGGGAGACGGGCGCCGGGAGGGGGGCCGCCGCATACAGTTCCCCCGACACTCGCA[CT]CCTGGAAGGCACCAGCCCCTCACGACCAACCTGCCA	
14020	IS	[CT]		GACGCTGTGAGGAATCCCCGGGTC	
14034	I		S	CACATTGGGGGGGTCAGTCGTTTGGGC	
14034	P	A	S	CGCGCCGAGGTCTCAGGACACAATTCCCY	
14034	P	T	S	ATGACGTGGCAGACACTCAGGACACAATTCCCY	
14034	T	A	S	TGTGGGGAATTGTGTCCTGAGACCCAAACGACTGACCCCCCCAATGTGCT	
14034	T	T	S	TGTGGGGAATTGTGTCCTGAGTCCCAAACGACTGACCCCCCCAATGTGCT	
				GCTAGTCAGACGCCCAACAACCCCACACAATGACACTTATGTGGGGAATTGTGTCCTGAG[AT]CCCAAACGACTGACCCCCCCAATGTGCTGTGAATAAGCA	
14034	IS	[AT]		GTGACCACAACCAGTACCACC	
14037	I		S	ACATGGCCCTAATTTCCCACCCAGGTTTTTTGTTTTTTTTTTTTTC	
14037	P	A	S	CGCGCCGAGGTTTTTTTTTTTTTTTGGTATGTGTTGY	
14037	P	C	S	ATGACGTGGCAGACGTTTTTTTTTTTTTTTGGTATGTGTTGY	
14037	T	A	S	AAAACAACACATACCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACCTGGGTGGGAAATTAGGGCCATGTGG	
14037	T	C	S	AAAACAACACATACCAAAAAAAAAAAAAAACAAAAAAAAAAAAAAAAAAAAAACCTGGGTGGGAAATTAGGGCCATGTGG	
				GTTCTTAGCTTTATTGCTAAGCGGAGAAAGAAAAACAACACATACCAAAAAAAAAAAAAA[AC]AAAAAAAAAAAAACAAAAAACCTGGGTGGGAAATTAGGGCC	
14037	IS	[AC]		ATGTGGCATGAAAAGGAAG	
14052	I		A	AGGGCCTCATGCGAGGCTGGCT	
14052	P	C	A	CGCGCCGAGGCTGGCGTGCACTCY	
14052	P	G	A	ATGACGTGGCAGACGTGGCGTGCACTCY	
14052	T	C	A	GCCCGAGTGCACGCCAGGCCAGCCTCGCATGAGGCCCTGC	
14052	T	G	A	GCCCGAGTGCACGCCACGCCAGCCTCGCATGAGGCCCTGC	
				TGCTTGCTAGAGATGTCCTGCTTCCCTTCACTGCGGGGCAGGGCCTCATGCGAGGCTGGC[CG]TGGCGTGCACTCGGGCCCAAGTGCTGGCTTGGGCTT	
14052	IS	[CG]		GTTTCCAGGCTTTTCCTGTCACAG	
14056	I		A	TCCCTGCAGCTGGCTGCCCCT	
14056	P	G	A	ATGACGTGGCAGACGGCTGCCGACCTCY	
14056	P	A	A	CGCGCCGAGGAGCTGCCGACCTCY	
14056	T	G	A	CACAGAGGTCGGCAGCCGGGGCAGCCAGCTGCAGGGATC	
14056	T	A	A	CACAGAGGTCGGCAGCTGGGGCAGCCAGCTGCAGGGATC	
				TCTCATGGGACCCTGCAGGCTCCTAGATAAGATTGCTGGATCCCTGCAGCTGGCTGCCCC[GA]GCTGCCGACCTCTGTGCACCTCAGGGCGGCCTGAGGT	
14056	IS	[GA]		CAGCGCTGGTCAGCAGGGCCCGG	
14102	I		A	GGAAACCAATCTTGGAACTTTCTGAGTCAATCAAGGTAGAAAACAACC	
14102	P	T	A	CGCGCCGAGGTTGTAGGAGGAAGGATTTTAAGY	
14102	P	A	A	ATGACGTGGCAGACATGTAGGAGGAAGGATTTTAAGY	
14102	T	T	A	GGACCTTAAAATCCTTCCTCCTACAAGTTGTTTTCTACCTTGATTGACTCAGAAAGTTCCAAGATTGGTTTCCAG	
14102	T	A	A	GGACCTTAAAATCCTTCCTCCTACATGTTGTTTTCTACCTTGATTGACTCAGAAAGTTCCAAGATTGGTTTCCAG	
				GGTTTAACTTACTGGAAACCAATCTTGGAACTTTCTGAGTCAATCAAGGTAGAAAACAAC[TA]TGTAGGAGGAAGGATTTTAAGGTCCAGACAAAGGTTGATT	
14102	IS	[TA]		GAGGGTGAGGCTGAAGGAAT	
14171	I		S	TGGCCTTTGAAGGCACCACAGGCCT	
14171	P	C	S	ATGACGTGGCAGACGCCCAGGCGAGGY	
14171	P	T	S	CGCGCCGAGGACCCAGGCGAGGTY	
14171	T	C	S	GGGCACCTCGCCTGGGCGGCCTGTGGTGCCTTCAAGGCCAGC	
14171	T	T	S	GGGCACCTCGCCTGGGTGGCCTGTGGTGCCTTCAAGGCCAGC	
				GTGGTAGCTGTGGGCACCTCACCTGGGTGTGCAGTGGCAGCTGTGGGCACCTCGCCTGGG[CT]GGCCTGTGGTGCCTTCAAAGGCCAGCGCCAGCCGCC	
14171	IS	[CT]		TGAGCCCTGGCACACTTCTCGCCA	
14208	I		A	GCCCTGTCTCAACTTTTCCATTTCTGCAGCTCAAAT	
14208	P	A	A	CGCGCCGAGGAATCCAGGCACAGGCY	
14208	P	C	A	ATGACGTGGCAGACCATCCAGGCACAGGCY	
14208	T	A	A	TCCAGCCTGTGCCTGGATTTTTGAGCTGCAGAAATGGAAAAGTTGAGACAGGGCAG	
14208	T	C	A	TCCAGCCTGTGCCTGGATGTTTGAGCTGCAGAAATGGAAAAGTTGAGACAGGGCAG	
				TCTTTCCCTTTTTTCTCCAGCTTCTGCCCTGTCTCAACTTTTCCATTTCTGCAGCTCAAA[AC]ATCCAGGCACAGGCTGGACCCTCAGAATTCTCCTTAGCGG	
14208	IS	[AC]		TTTGGGAGTCGGAGCAGGTG	
14255	I		S	CACCATCATCATCTCCGTCATGCCTATCATCATCATCATCT	
14255	P	G	S	CGCGCCGAGGCCCACCATCACTGTCAY	
14255	P	C	S	ATGACGTGGCAGACGCCACCATCACTGTCY	
14255	T	G	S	ATGATGACAGTGATGGTGGGGATGATGATGATGATAGGCATGACGGAGATGATGATGGTGGT	
14255	T	C	S	ATGATGACAGTGATGGTGGCGATGATGATGATGATAGGCATGACGGAGATGATGATGGTGGT	
				ATGATAGAGATGGTGGTAATGATAATATAGTGATGGTGGTGATGATGACAGTGATGGTGG[GC]GATGATGATGATGATAGGCATGACGGAGATGATGATGG	
14255	IS	[GC]		TGGTGATGATGGCAACTGTGGT	
14264	I		S	GCCAGCTTTCTCCCAGGGCAGCAAAT	
14264	P	G	S	ATGACGTGGCAGACCCGAGGACACTATCCCY	
14264	P	T	S	CGCGCCGAGGACGAGGACACTATCCCY	
14264	T	G	S	GGTGGGGATAGTGTCCTCGGTTTGCTGCCCTGGGAGAAAGCTGGCTT	
14264	T	T	S	GGTGGGGATAGTGTCCTCGTTTTGCTGCCCTGGGAGAAAGCTGGCTT	

FIGURE 129E

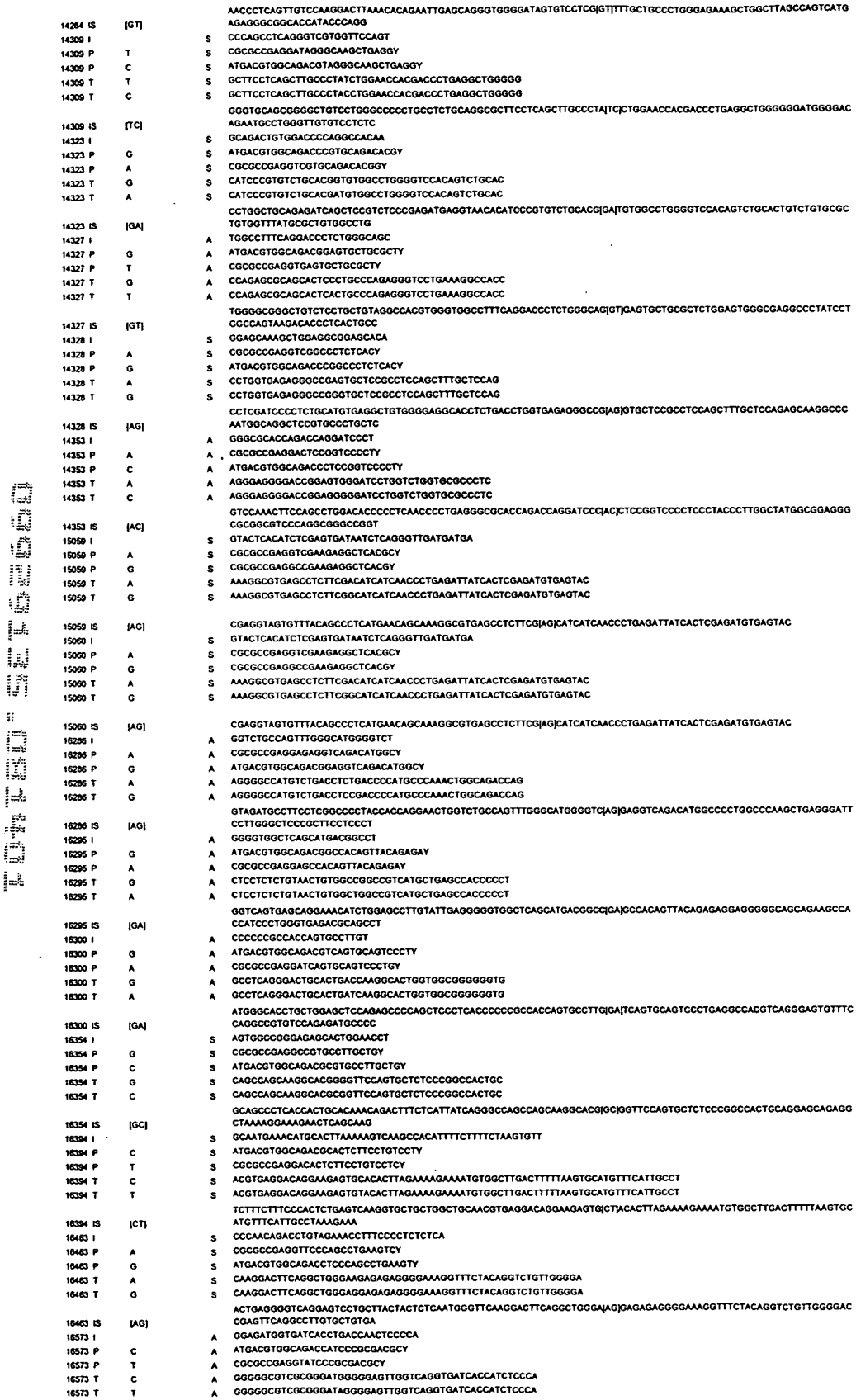

AACCCTCAGTTGTCCAAGGACTTAAACACAGAATTGAGCAGGGTGGGGATAGTGTCCTCG[GT]TTTGCTGCCCTGGGAGAAAGCTGGCTTAGCCAGTCATG
14264 IS [GT] AGAGGGCGGCACCATACCCAGG
14309 I S CCCAGCCTCAGGGTCGTGGTTCCAGT
14309 P T S CGCGCCGAGGATAGGGCAAGCTGAGGY
14309 P C S ATGACGTGGCAGACGTAGGGCAAGCTGAGGY
14309 T T S GCTTCCTCAGCTTGCCCTATCTGGAACCACGACCCTGAGGCTGGGGG
14309 T C S GCTTCCTCAGCTTGCCCTACCTGGAACCACGACCCTGAGGCTGGGGG
GGGTGCAGCGGGGCTGTCCTGGGCCCCCTGCCTCTGCAGGCGCTTCCTCAGCTTGCCCTA[TC]CTGGAACCACGACCCTGAGGCTGGGGGGATGGGGAC
14309 IS [TC] AGAATGCCTGGGTTGTGTCCTCTC
14323 I S GCAGACTGTGGACCCCAGGCCACAA
14323 P G S ATGACGTGGCAGACCCGTGCAGACACGY
14323 P A S CGCGCCGAGGTCGTGCAGACACGGY
14323 T G S CATCCCGTGTCTGCACGGTGTGGCCTGGGGTCCACAGTCTGCAC
14323 T A S CATCCCGTGTCTGCACGATGTGGCCTGGGGTCCACAGTCTGCAC
CCTGGCTGCAGAGATCAGCTCCGTCTCCCGAGATGAGGTAACACATCCCGTGTCTGCACG[GA]TGTGGCCTGGGGTCCACAGTCTGCACTGTCTGTGCGC
14323 IS [GA] TGTGGTTTATGCGCTGTGGCCTG
14327 I A TGGCCTTTCAGGACCCTCTGGGCAGC
14327 P G A ATGACGTGGCAGACGGAGTGCTGCGCTY
14327 P T A CGCGCCGAGGTGAGTGCTGCGCTY
14327 T G A CCAGAGCGCAGCACTCCCTGCCCAGAGGGTCCTGAAAGGCCACC
14327 T T A CCAGAGCGCAGCACTCACTGCCCAGAGGGTCCTGAAAGGCCACC
TGGGGCGGGCTGTCTCCTGCTGTAGGCCACGTGGGTGGCCTTTCAGGACCCTCTGGGCAG[GT]GAGTGCTGCGCTCTGGAGTGGGCGAGGCCCTATCCT
14327 IS [GT] GGCCAGTAAGACACCCTCACTGCC
14328 I S GGAGCAAAGCTGGAGGCGGAGCACA
14328 P A S CGCGCCGAGGTCGGCCCTCTCACY
14328 P G S ATGACGTGGCAGACCCGGCCCTCTCACY
14328 T A S CCTGGTGAGAGGGCCGAGTGCTCCGCCTCCAGCTTTGCTCCAG
14328 T G S CCTGGTGAGAGGGCCGGGTGCTCCGCCTCCAGCTTTGCTCCAG
CCTCGATCCCCTCTGCATGTGAGGCTGTGGGGAGGCACCTCTGACCTGGTGAGAGGGCCG[AG]GTGCTCCGCCTCCAGCTTTGCTCCAGAGCAAGGCCC
14328 IS [AG] AATGGCAGGCTCCGTGCCCTGCTC
14353 I A GGGCGCACCAGACCAGGATCCCT
14353 P A A CGCGCCGAGGACTCCGGTCCCCTY
14353 P C A ATGACGTGGCAGACCCTCCGGTCCCCTY
14353 T A A AGGGAGGGGACCGGAGTGGGATCCTGGTCTGGTGCGCCCTC
14353 T C A AGGGAGGGGACCGGAGGGGGATCCTGGTCTGGTGCGCCCTC
GTCCAAACTTCCAGCCTGGACACCCCCTCAACCCCTGAGGGCGCACCAGACCAGGATCCC[AC]CTCCGGTCCCCTCCCTACCCTTGGCTATGGCGGAGGG
14353 IS [AC] CGCGGCGTCCCAGGCGGGCCGGT
15059 I S GTACTCACATCTCGAGTGATAATCTCAGGGTTGATGATGA
15059 P A S CGCGCCGAGGTCGAAGAGGCTCACGCY
15059 P G S CGCGCCGAGGCCGAAGAGGCTCACGY
15059 T A S AAAGGCGTGAGCCTCTTCGACATCATCAACCCTGAGATTATCACTCGAGATGTGAGTAC
15059 T G S AAAGGCGTGAGCCTCTTCGGCATCATCAACCCTGAGATTATCACTCGAGATGTGAGTAC
15059 IS [AG] CGAGGTAGTGTTTACAGCCCTCATGAACAGCAAAGGCGTGAGCCTCTTCG[AG]CATCATCAACCCTGAGATTATCACTCGAGATGTGAGTAC
15060 I S GTACTCACATCTCGAGTGATAATCTCAGGGTTGATGATGA
15060 P A S CGCGCCGAGGTCGAAGAGGCTCACGCY
15060 P G S CGCGCCGAGGCCGAAGAGGCTCACGY
15060 T A S AAAGGCGTGAGCCTCTTCGACATCATCAACCCTGAGATTATCACTCGAGATGTGAGTAC
15060 T G S AAAGGCGTGAGCCTCTTCGGCATCATCAACCCTGAGATTATCACTCGAGATGTGAGTAC
15060 IS [AG] CGAGGTAGTGTTTACAGCCCTCATGAACAGCAAAGGCGTGAGCCTCTTCG[AG]CATCATCAACCCTGAGATTATCACTCGAGATGTGAGTAC
16286 I A GGTCTGCCAGTTTGGGCATGGGGTCT
16286 P A A CGCGCCGAGGAGAGGTCAGACATGGCY
16286 P G A ATGACGTGGCAGACGGAGGTCAGACATGGCY
16286 T A A AGGGGCCATGTCTGACCTCTGACCCCATGCCCAAACTGGCAGACCAG
16286 T G A AGGGGCCATGTCTGACCTCCGACCCCATGCCCAAACTGGCAGACCAG
GTAGATGCCTTCCTCGGCCCCTACCACCAGGAACTGGTCTGCCAGTTTGGGCATGGGGTC[AG]GAGGTCAGACATGGCCCCTGGCCCAAGCTGAGGGATT
16286 IS [AG] CCTTGGGCTCCCGCTTCCTCCCT
16295 I A GGGGTGGCTCAGCATGACGGCCT
16295 P G A ATGACGTGGCAGACGGCCACAGTTACAGAGAY
16295 P A A CGCGCCGAGGAGCCACAGTTACAGAGAY
16295 T G A CTCCTCTCTGTAACTGTGGCCGGCCGTCATGCTGAGCCACCCCCT
16295 T A A CTCCTCTCTGTAACTGTGGCTGGCCGTCATGCTGAGCCACCCCCT
GGTCAGTGAGCAGGAAACATCTGGAGCCTTGTATTGAGGGGGTGGCTCAGCATGACGGCC[GA]GCCACAGTTACAGAGAGGAGGGGGCAGCAGAAGCCA
16295 IS [GA] CCATCCCTGGGTGAGACGCAGCCT
16300 I A CCCCCCGCCACCAGTGCCTTGT
16300 P G A ATGACGTGGCAGACGTCAGTGCAGTCCCTY
16300 P A A CGCGCCGAGGATCAGTGCAGTCCCTGY
16300 T G A GCCTCAGGGACTGCACTGACCAAGGCACTGGTGGCGGGGGGTG
16300 T A A GCCTCAGGGACTGCACTGATCAAGGCACTGGTGGCGGGGGGTG
ATGGGCACCTGCTGGAGCTCCAGAGCCCCAGCTCCCTCACCCCCCGCCACCAGTGCCTTG[GA]TCAGTGCAGTCCCTGAGGCCACGTCAGGGAGTGTTTC
16300 IS [GA] CAGGCCGTGTCCAGAGATGCCCC
16354 I S AGTGGCCGGGAGAGCACTGGAACCT
16354 P G S CGCGCCGAGGCCGTGCCTTGCTGY
16354 P C S ATGACGTGGCAGACGCGTGCCTTGCTGY
16354 T G S CAGCCAGCAAGGCACGGGGTTCCAGTGCTCTCCCGGCCACTGC
16354 T C S CAGCCAGCAAGGCACGCGGTTCCAGTGCTCTCCCGGCCACTGC
GCAGCCCTCACCACTGCACAAACAGACTTTCTCATTATCAGGGCCAGCCAGCAAGGCACG[GC]GGTTCCAGTGCTCTCCCGGCCACTGCAGGAGCAGAGG
16354 IS [GC] CTAAAAGGAAAGAACTCAGCAAG
16394 I S GCAATGAAACATGCACTTAAAAAGTCAAGCCACATTTTCTTTTCTAAGTGTT
16394 P C S ATGACGTGGCAGACGCACTCTTCCTGTCCTY
16394 P T S CGCGCCGAGGACACTCTTCCTGTCCTCY
16394 T C S ACGTGAGGACAGGAAGAGTGCACACTTAGAAAAGAAAATGTGGCTTGACTTTTTAAGTGCATGTTTCATTGCCT
16394 T T S ACGTGAGGACAGGAAGAGTGTACACTTAGAAAAGAAAATGTGGCTTGACTTTTTAAGTGCATGTTTCATTGCCT
TCTTTCTTTCCCACTCTGAGTCAAGGTGCTGCTGGCTGCAACGTGAGGACAGGAAGAGTG[CT]ACACTTAGAAAAGAAAATGTGGCTTGACTTTTTAAGTGC
16394 IS [CT] ATGTTTCATTGCCTAAAGAAA
16463 I S CCCAACAGACCTGTAGAAACCTTTCCCCTCTCTCA
16463 P A S CGCGCCGAGGTTCCCAGCCTGAAGTCY
16463 P G S ATGACGTGGCAGACCTCCCAGCCTGAAGTY
16463 T A S CAAGGACTTCAGGCTGGGAAGAGAGAGGGGAAAGGTTTCTACAGGTCTGTTGGGGA
16463 T G S CAAGGACTTCAGGCTGGGAGGAGAGAGGGGAAAGGTTTCTACAGGTCTGTTGGGGA
ACTGAGGGGTCAGGAGTCCTGCTTACTACTCTCAATGGGTTCAAGGACTTCAGGCTGGGA[AG]GAGAGAGGGGAAAGGTTTCTACAGGTCTGTTGGGGAC
16463 IS [AG] CGAGTTCAGGCCTTGTGCTGTGA
16573 I A GGAGATGGTGATCACCTGACCAACTCCCCA
16573 P C A ATGACGTGGCAGACCATCCCGCGACGCY
16573 P T A CGCGCCGAGGTATCCCGCGACGCY
16573 T C A GGGGGCGTCGCGGGATGGGGGAGTTGGTCAGGTGATCACCATCTCCCA
16573 T T A GGGGGCGTCGCGGGATAGGGGAGTTGGTCAGGTGATCACCATCTCCCA

FIGURE 129E

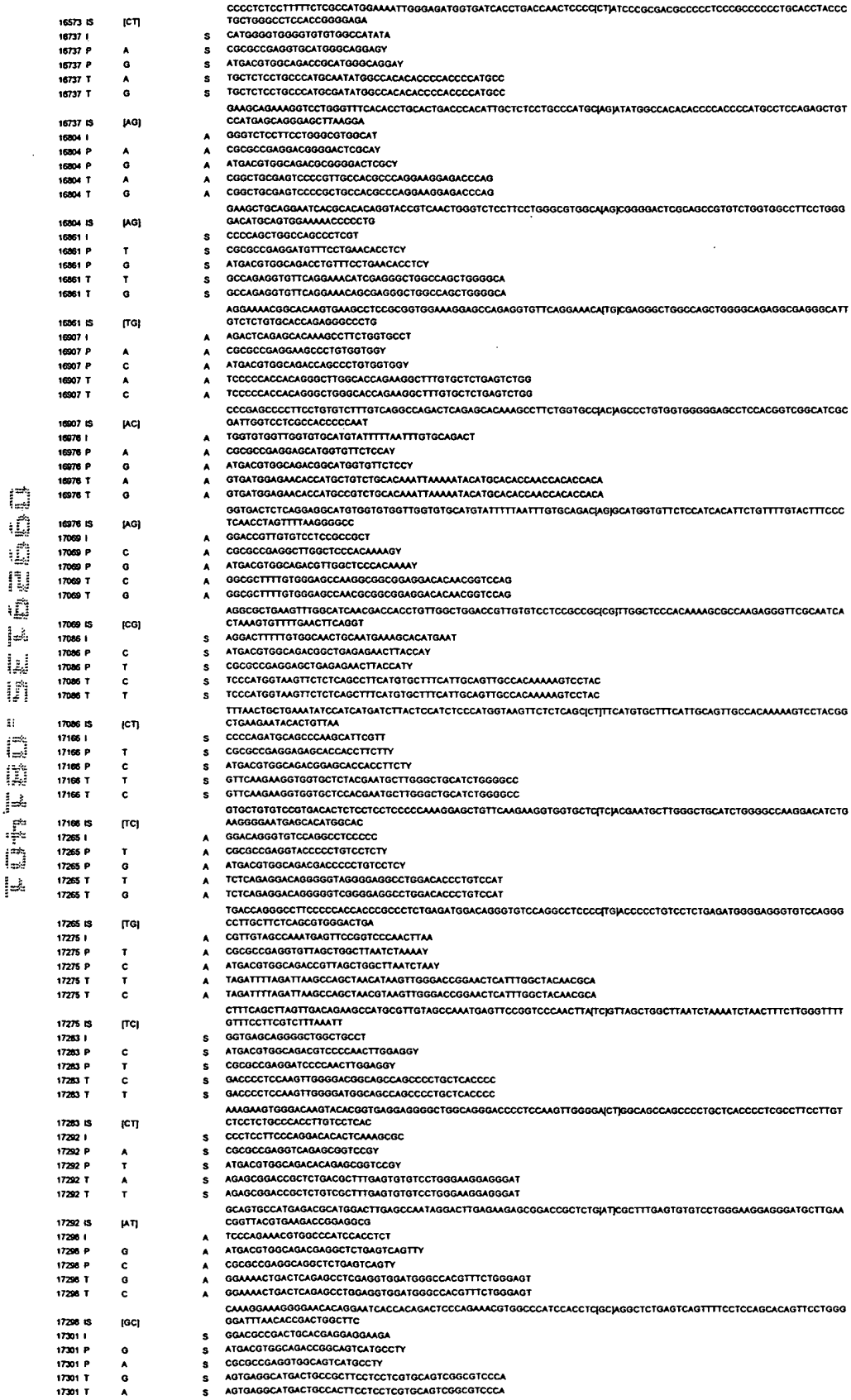

CCCCTCTCCTTTTTCTCGCCATGGAAAATTGGGAGATGGTGATCACCTGACCAACTCCCC[CT]ATCCCGCGACGCCCCCTCCCGCCCCCCTGCACCTACCC
16573 IS [CT] TGCTGGGCCTCCACCGGGGAGA
16737 I S CATGGGGTGGGGTGTGTGGCCATATA
16737 P A S CGCGCCGAGGTGCATGGGCAGGAGY
16737 P G S ATGACGTGGCAGACCGCATGGGCAGGAY
16737 T A S TGCTCTCCTGCCCATGCAATATGGCCACACACCCCACCCCATGCC
16737 T G S TGCTCTCCTGCCCATGCGATATGGCCACACACCCCACCCCATGCC
GAAGCAGAAAGGTCCTGGGTTTCACACCTGCACTGACCCACATTGCTCTCCTGCCCATGC[AG]ATATGGCCACACACCCCACCCCATGCCTCCAGAGCTGT
16737 IS [AG] CCATGAGCAGGGAGCTTAAGGA
16804 I A GGGTCTCCTTCCTGGGCGTGGCAT
16804 P A A CGCGCCGAGGACGGGGACTCGCAY
16804 P G A ATGACGTGGCAGACGCGGGGACTCGCY
16804 T A A CGGCTGCGAGTCCCCGTTGCCACGCCCAGGAAGGAGACCCAG
16804 T G A CGGCTGCGAGTCCCCGCTGCCACGCCCAGGAAGGAGACCCAG
GAAGCTGCAGGAATCACGCACACAGGTACCGTCAACTGGGTCTCCTTCCTGGGCGTGGCA[AG]CGGGGACTCGCAGCCGTGTCTGGTGGCCTTCCTGGG
16804 IS [AG] GACATGCAGTGGAAAAACCCCCTG
16861 I S CCCCAGCTGGCCAGCCCTCGT
16861 P T S CGCGCCGAGGATGTTTCCTGAACACCTCY
16861 P G S ATGACGTGGCAGACCTGTTTCCTGAACACCTCY
16861 T T S GCCAGAGGTGTTCAGGAAACATCGAGGGCTGGCCAGCTGGGGCA
16861 T G S GCCAGAGGTGTTCAGGAAACAGCGAGGGCTGGCCAGCTGGGGCA
AGGAAAACGGCACAAGTGAAGCCTCCGCGGTGGAAAGGAGCCAGAGGTGTTCAGGAAACA[TG]CGAGGGCTGGCCAGCTGGGGCAGAGGCGAGGGCATT
16861 IS [TG] GTCTCTGTGCACCAGAGGGCCCTG
16907 I A AGACTCAGAGCACAAAGCCTTCTGGTGCCT
16907 P A A CGCGCCGAGGAAGCCCTGTGGTGGY
16907 P C A ATGACGTGGCAGACCAGCCCTGTGGTGGY
16907 T A A TCCCCCACCACAGGGCTTGGCACCAGAAGGCTTTGTGCTCTGAGTCTGG
16907 T C A TCCCCCACCACAGGGCTGGGCACCAGAAGGCTTTGTGCTCTGAGTCTGG
CCCGAGCCCCTTCCTGTGTCTTTGTCAGGCCAGACTCAGAGCACAAAGCCTTCTGGTGCC[AC]AGCCCTGTGGTGGGGGAGCCTCCACGGTCGGCATCGC
16907 IS [AC] GATTGGTCCTCGCCACCCCCAAT
16976 I A TGGTGTGGTTGGTGTGCATGTATTTTTAATTTGTGCAGACT
16976 P A A CGCGCCGAGGAGCATGGTGTTCTCCAY
16976 P G A ATGACGTGGCAGACGGCATGGTGTTCTCCY
16976 T A A GTGATGGAGAACACCATGCTGTCTGCACAAATTAAAAATACATGCACACCAACCACACCACA
16976 T G A GTGATGGAGAACACCATGCCGTCTGCACAAATTAAAAATACATGCACACCAACCACACCACA
GGTGACTCTCAGGAGGCATGTGGTGTGGTTGGTGTGCATGTATTTTTAATTTGTGCAGAC[AG]GCATGGTGTTCTCCATCACATTCTGTTTTGTACTTTCCC
16976 IS [AG] TCAACCTAGTTTTAAGGGGCC
17069 I A GGACCGTTGTGTCCTCCGCCGCT
17069 P C A CGCGCCGAGGCTTGGCTCCCACAAAAGY
17069 P G A ATGACGTGGCAGACGTTGGCTCCCACAAAAY
17069 T C A GGCGCTTTTGTGGGAGCCAAGGCGGCGGAGGACACAACGGTCCAG
17069 T G A GGCGCTTTTGTGGGAGCCAACGCGGCGGAGGACACAACGGTCCAG
AGGCGCTGAAGTTTGGCATCAACGACCACCTGTTGGCTGGACCGTTGTGTCCTCCGCCGC[CG]TTGGCTCCCACAAAAGCGCCAAGAGGGTTCGCAATCA
17069 IS [CG] CTAAAGTGTTTTGAACTTCAGGT
17086 I S AGGACTTTTTGTGGCAACTGCAATGAAAGCACATGAAT
17086 P C S ATGACGTGGCAGACGGCTGAGAGAACTTACCAY
17086 P T S CGCGCCGAGGAGCTGAGAGAACTTACCATY
17086 T C S TCCCATGGTAAGTTCTCTCAGCCTTCATGTGCTTTCATTGCAGTTGCCACAAAAAGTCCTAC
17086 T T S TCCCATGGTAAGTTCTCTCAGCTTTCATGTGCTTTCATTGCAGTTGCCACAAAAAGTCCTAC
TTTAACTGCTGAAATATCCATCATGATCTTACTCCATCTCCCATGGTAAGTTCTCTCAGC[CT]TTCATGTGCTTTCATTGCAGTTGCCACAAAAAGTCCTACGG
17086 IS [CT] CTGAAGAATACACTGTTAA
17165 I S CCCCAGATGCAGCCCAAGCATTCGTT
17165 P T S CGCGCCGAGGAGACCACCTTCTTY
17165 P C S ATGACGTGGCAGACGGAGCACCACCTTCTY
17166 T T S GTTCAAGAAGGTGGTGCTCTACGAATGCTTGGGCTGCATCTGGGGCC
17166 T C S GTTCAAGAAGGTGGTGCTCCACGAATGCTTGGGCTGCATCTGGGGCC
GTGCTGTGTCCGTGACACTCTCCTCCTCCCCCAAAGGAGCTGTTCAAGAAGGTGGTGCTC[TC]ACGAATGCTTGGGCTGCATCTGGGGCCAAGGACATCTG
17166 IS [TC] AAGGGGAATGAGCACATGGCAC
17265 I A GGACAGGGTGTCCAGGCCTCCCCC
17265 P T A CGCGCCGAGGTACCCCCTGTCCTCTY
17265 P G A ATGACGTGGCAGACGACCCCCTGTCCTCY
17265 T T A TCTCAGAGGACAGGGGGTAGGGGAGGCCTGGACACCCTGTCCAT
17265 T G A TCTCAGAGGACAGGGGGTCGGGGAGGCCTGGACACCCTGTCCAT
TGACCAGGGCCTTCCCCCACCACCCGCCCTCTGAGATGGACAGGGTGTCCAGGCCTCCCC[TG]ACCCCCTGTCCTCTGAGATGGGGAGGGTGTCCAGGG
17265 IS [TG] CCTTGCTTCTCAGCGTGGGACTGA
17275 I A CGTTGTAGCCAAATGAGTTCCGGTCCCAACTTAA
17275 P T A CGCGCCGAGGTGTTAGCTGGCTTAATCTAAAAY
17275 P C A ATGACGTGGCAGACCGTTAGCTGGCTTAATCTAAY
17275 T T A TAGATTTTAGATTAAGCCAGCTAACATAAGTTGGGACCGGAACTCATTTGGCTACAACGCA
17275 T C A TAGATTTTAGATTAAGCCAGCTAACGTAAGTTGGGACCGGAACTCATTTGGCTACAACGCA
CTTTCAGCTTAGTTGACAGAAGCCATGCGTTGTAGCCAAATGAGTTCCGGTCCCAACTTA[TC]GTTAGCTGGCTTAATCTAAAATCTAACTTTCTTGGGTTTT
17275 IS [TC] GTTTCCTTCGTCTTTAAATT
17283 I S GGTGAGCAGGGGCTGGCTGCCT
17283 P C S ATGACGTGGCAGACGTCCCCAACTTGGAGGY
17283 P T S CGCGCCGAGGATCCCCAACTTGGAGGY
17283 T C S GACCCCTCCAAGTTGGGGACGGCAGCCAGCCCCTGCTCACCCC
17283 T T S GACCCCTCCAAGTTGGGGATGGCAGCCAGCCCCTGCTCACCCC
AAAGAAGTGGGACAAGTACACGGTGAGGAGGGGCTGGCAGGGACCCCTCCAAGTTGGGGA[CT]GGCAGCCAGCCCCTGCTCACCCCTCGCCTTCCTTGT
17283 IS [CT] CTCCTCTGCCCACCTTGTCCTCAC
17292 I S CCCTCCTTCCCAGGACACACTCAAAGCGC
17292 P A S CGCGCCGAGGTCAGAGCGGTCCGY
17292 P T S ATGACGTGGCAGACACAGAGCGGTCCGY
17292 T A S AGAGCGGACCGCTCTGACGCTTTGAGTGTGTCCTGGGAAGGAGGGAT
17292 T T S AGAGCGGACCGCTCTGTCGCTTTGAGTGTGTCCTGGGAAGGAGGGAT
GCAGTGCCATGAGACGCATGGACTTGAGCCAATAGGACTTGAGAAGAGCGGACCGCTCTG[AT]CGCTTTGAGTGTGTCCTGGGAAGGAGGGATGCTTGAA
17292 IS [AT] CGGTTACGTGAAGACCGGAGGCG
17296 I A TCCCAGAAACGTGGCCCATCCACCTCT
17296 P G A ATGACGTGGCAGACGAGGCTCTGAGTCAGTTY
17296 P C A CGCGCCGAGGCAGGCTCTGAGTCAGTY
17296 T G A GGAAAACTGACTCAGAGCCTCGAGGTGGATGGGCCACGTTTCTGGGAGT
17296 T C A GGAAAACTGACTCAGAGCCTGGAGGTGGATGGGCCACGTTTCTGGGAGT
CAAAGGAAAGGGGAACACAGGAATCACCACAGACTCCCAGAAACGTGGCCCATCCACCTC[GC]AGGCTCTGAGTCAGTTTTCCTCCAGCACAGTTCCTGGG
17296 IS [GC] GGATTTAACACCGACTGGCTTC
17301 I S GGACGCCGACTGCACGAGGAGGAAGA
17301 P G S ATGACGTGGCAGACCGGCAGTCATGCCTY
17301 P A S CGCGCCGAGGTGGCAGTCATGCCTY
17301 T G S AGTGAGGCATGACTGCCGCTTCCTCCTCGTGCAGTCGGCGTCCCA
17301 T A S AGTGAGGCATGACTGCCACTTCCTCCTCGTGCAGTCGGCGTCCCA

FIGURE 129E

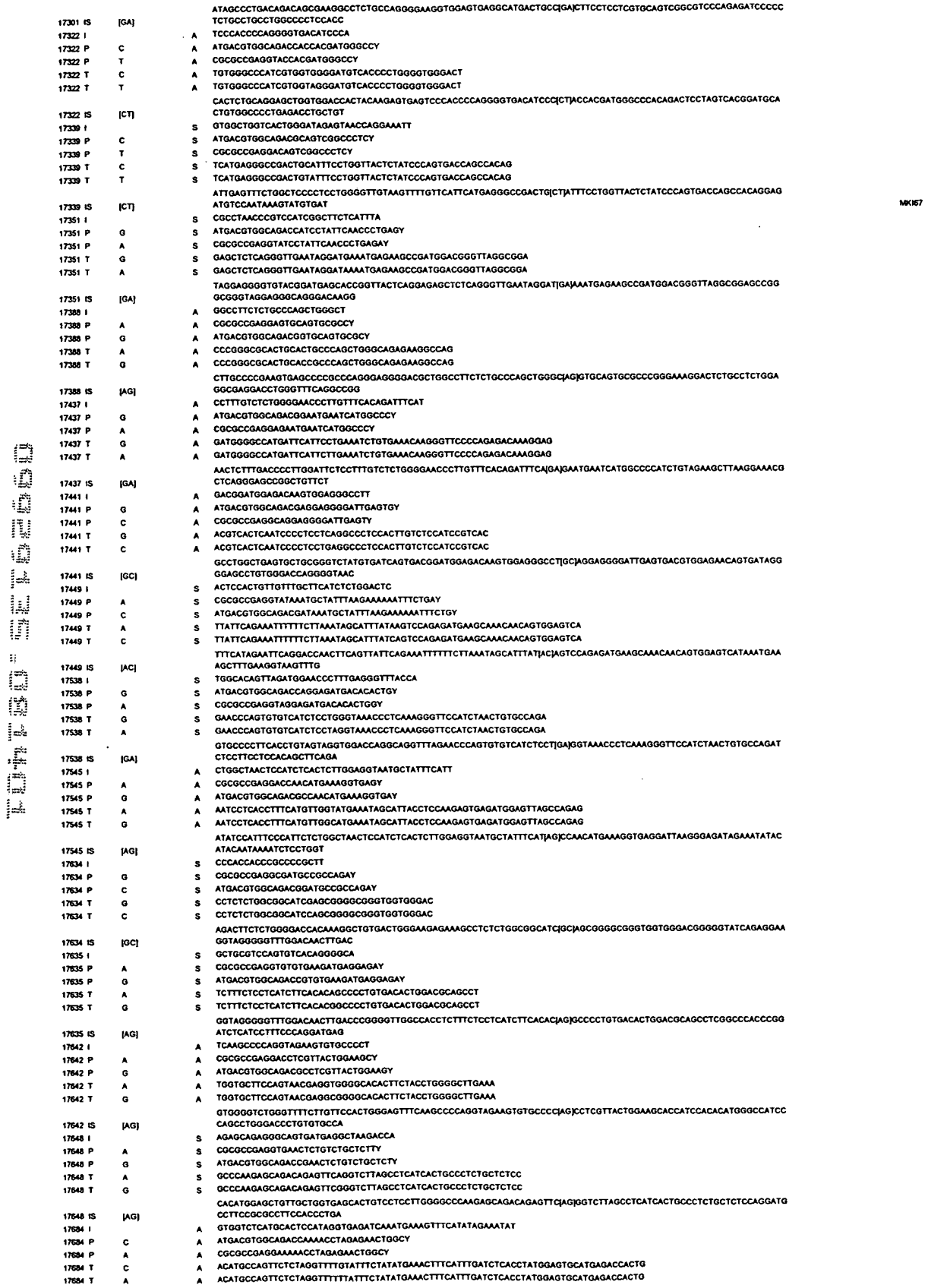
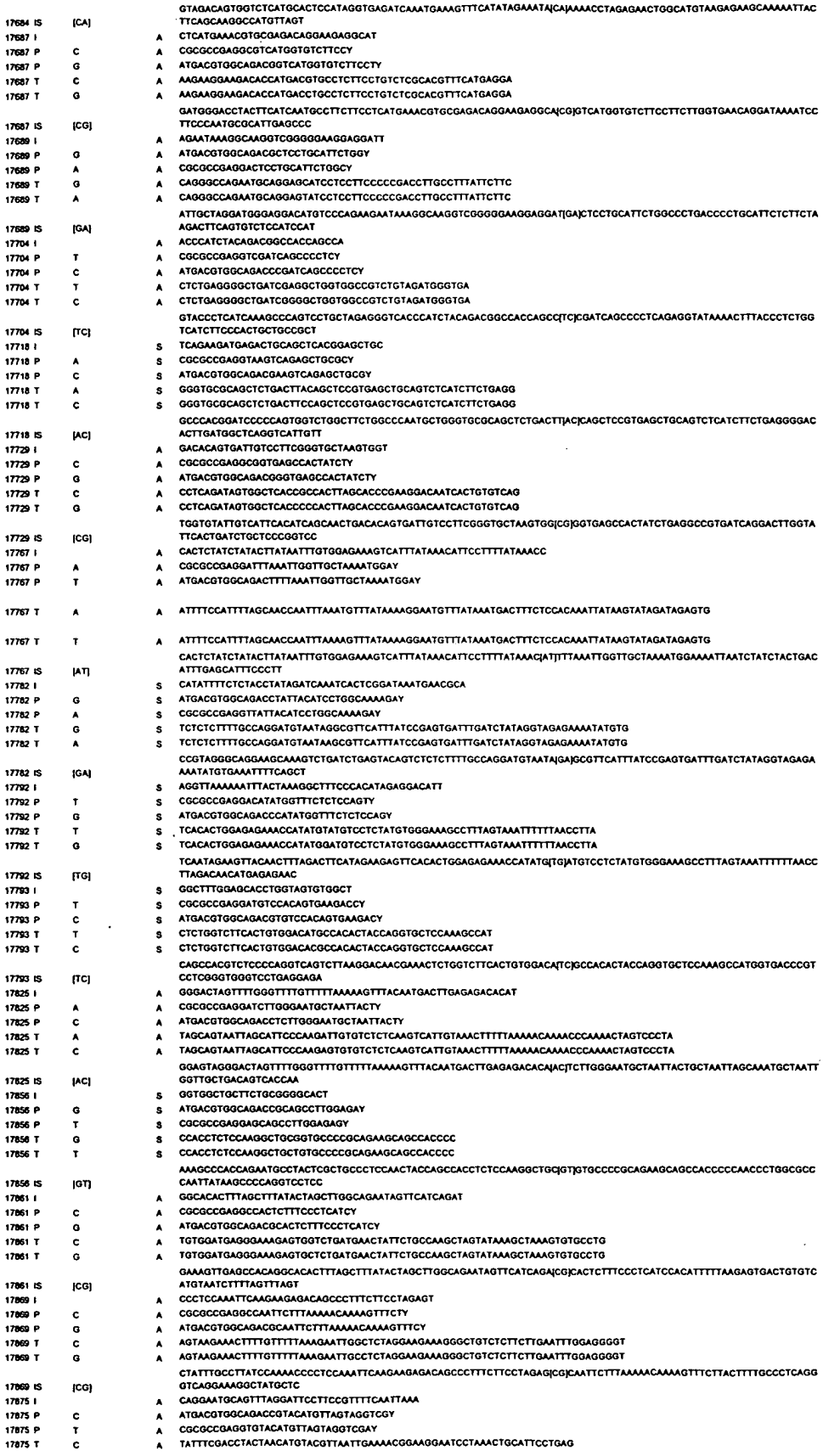

ATAGCCCTGACAGACAGCGAAGGCCTCTGCCAGGGGAAGGTGGAGTGAGGCATGACTGCC[GA]CTTCCTCCTCGTGCAGTCGGCGTCCCAGAGATCCCCC
17301 tS [GA] TCTGCCTGCCTGGCCCCTCCACC
17322 I A TCCCACCCCAGGGGTGACATCCCA
17322 P C A ATGACGTGGCAGACCACCACGATGGGCCY
17322 P T A CGCGCCGAGGTACCACGATGGGCCY
17322 T C A TGTGGGCCCATCGTGGTGGGGATGTCACCCCTGGGGTGGGACT
17322 T T A TGTGGGCCCATCGTGGTAGGGATGTCACCCCTGGGGTGGGACT
CACTCTGCAGGAGCTGGTGGACCACTACAAGAGTGAGTCCCACCCCAGGGGTGACATCCC[CT]ACCACGATGGGCCCACAGACTCCTAGTCACGGATGCA
17322 tS [CT] CTGTGGCCCCTGAGACCTGCTGT
17339 I S GTGGCTGGTCACTGGGATAGAGTAACCAGGAAATT
17339 P C S ATGACGTGGCAGACGCAGTCGGCCCTCY
17339 P T S CGCGCCGAGGACAGTCGGCCCTCY
17339 T C S TCATGAGGGCCGACTGCATTTCCTGGTTACTCTATCCCAGTGACCAGCCACAG
17339 T T S TCATGAGGGCCGACTGTATTTCCTGGTTACTCTATCCCAGTGACCAGCCACAG
ATTGAGTTTCTGGCTCCCCTCCTGGGGTTGTAAGTTTTGTTCATTCATGAGGGCCGACTG[CT]ATTTCCTGGTTACTCTATCCCAGTGACCAGCCACAGGAG
17339 tS [CT] ATGTCCAATAAAGTATGTGAT MKI67
17351 I S CGCCTAACCCGTCCATCGGCTTCTCATTTA
17351 P G S ATGACGTGGCAGACCATCCTATTCAACCCTGAGY
17351 P A S CGCGCCGAGGTATCCTATTCAACCCTGAGAY
17351 T G S GAGCTCTCAGGGTTGAATAGGATGAAATGAGAAGCCGATGGACGGGTTAGGCGGA
17351 T A S GAGCTCTCAGGGTTGAATAGGATAAAATGAGAAGCCGATGGACGGGTTAGGCGGA
TAGGAGGGGTGTACGGATGAGCACCGGTTACTCAGGAGAGCTCTCAGGGTTGAATAGGAT[GA]AAATGAGAAGCCGATGGACGGGTTAGGCGGAGCCGG
17351 tS [GA] GCGGGTAGGAGGGCAGGGACAAGG
17388 I A GGCCTTCTCTGCCCAGCTGGGCT
17388 P A A CGCGCCGAGGAGTGCAGTGCGCCY
17388 P G A ATGACGTGGCAGACGGTGCAGTGCGCY
17388 T A A CCCGGGCGCACTGCACTGCCCAGCTGGGCAGAGAAGGCCAG
17388 T G A CCCGGGCGCACTGCACCGCCCAGCTGGGCAGAGAAGGCCAG
CTTGCCCCGAAGTGAGCCCCGCCCAGGGAGGGGACGCTGGCCTTCTCTGCCCAGCTGGGC[AG]GTGCAGTGCGCCCGGGAAAGGACTCTGCCTCTGGA
17388 tS [AG] GGCGAGGACCTGGGTTTCAGGCCGG
17437 I A CCTTTGTCTCTGGGGAACCCTTGTTTCACAGATTTCAT
17437 P G A ATGACGTGGCAGACGGAATGAATCATGGCCCY
17437 P A A CGCGCCGAGGAGAATGAATCATGGCCCY
17437 T G A GATGGGGCCATGATTCATTCCTGAAATCTGTGAAACAAGGGTTCCCCAGAGACAAAGGAG
17437 T A A GATGGGGCCATGATTCATTCTTGAAATCTGTGAAACAAGGGTTCCCCAGAGACAAAGGAG
AACTCTTTGACCCCTTGGATTCTCCTTTGTCTCTGGGGAACCCTTGTTTCACAGATTTCA[GA]GAATGAATCATGGCCCCATCTGTAGAAGCTTAAGGAAACG
17437 tS [GA] CTCAGGGAGCCGGCTGTTCT
17441 I A GACGGATGGAGACAAGTGGAGGGCCTT
17441 P G A ATGACGTGGCAGACGAGGAGGGGATTGAGTGY
17441 P C A CGCGCCGAGGCAGGAGGGGATTGAGTY
17441 T G A ACGTCACTCAATCCCCTCCTCAGGCCCTCCACTTGTCTCCATCCGTCAC
17441 T C A ACGTCACTCAATCCCCTCCTGAGGCCCTCCACTTGTCTCCATCCGTCAC
GCCTGGCTGAGTGCTGCGGGTCTATGTGATCAGTGACGGATGGAGACAAGTGGAGGGCCT[GC]AGGAGGGGATTGAGTGACGTGGAGAACAGTGATAGG
17441 tS [GC] GGAGCCTGTGGGACCAGGGGTAAC
17449 I S ACTCCACTGTTGTTTGCTTCATCTCTGGACTC
17449 P A S CGCGCCGAGGTATAAATGCTATTTAAGAAAAAATTTCTGAY
17449 P C S ATGACGTGGCAGACGATAAATGCTATTTAAGAAAAAATTTCTGY
17449 T A S TTATTCAGAAATTTTTTCTTAAATAGCATTTATAAGTCCAGAGATGAAGCAAACAACAGTGGAGTCA
17449 T C S TTATTCAGAAATTTTTTCTTAAATAGCATTTATCAGTCCAGAGATGAAGCAAACAACAGTGGAGTCA
TTTCATAGAATTCAGGACCAACTTCAGTTATTCAGAAATTTTTTCTTAAATAGCATTTAT[AC]AGTCCAGAGATGAAGCAAACAACAGTGGAGTCATAAATGAA
17449 tS [AC] AGCTTTGAAGGTAAGTTTG
17538 I S TGGCACAGTTAGATGGAACCCTTTGAGGGTTTACCA
17538 P G S ATGACGTGGCAGACCAGGAGATGACACACTGY
17538 P A S CGCGCCGAGGTAGGAGATGACACACTGGY
17538 T G S GAACCCAGTGTGTCATCTCCTGGGTAAACCCTCAAAGGGTTCCATCTAACTGTGCCAGA
17538 T A S GAACCCAGTGTGTCATCTCCTAGGTAAACCCTCAAAGGGTTCCATCTAACTGTGCCAGA
GTGCCCCTTCACCTGTAGTAGGTGGACCAGGCAGGTTTAGAACCCAGTGTGTCATCTCCT[GA]GGTAAACCCTCAAAGGGTTCCATCTAACTGTGCCAGAT
17538 tS [GA] CTCCTTCCTCCACAGCTTCAGA
17545 I A CTGGCTAACTCCATCTCACTCTTGGAGGTAATGCTATTTCATT
17545 P A A CGCGCCGAGGACCAACATGAAAGGTGAGY
17545 P G A ATGACGTGGCAGACGCCAACATGAAAGGTGAY
17545 T A A AATCCTCACCTTTCATGTTGGTATGAAATAGCATTACCTCCAAGAGTGAGATGGAGTTAGCCAGAG
17545 T G A AATCCTCACCTTTCATGTTGGCATGAAATAGCATTACCTCCAAGAGTGAGATGGAGTTAGCCAGAG
ATATCCATTTCCCATTCTCTGGCTAACTCCATCTCACTCTTGGAGGTAATGCTATTTCAT[AG]CCAACATGAAAGGTGAGGATTAAGGGAGATAGAAATATAC
17545 tS [AG] ATACAATAAAATCTCCTGGT
17634 I S CCCACCACCCGCCCCGCTT
17634 P G S CGCGCCGAGGCGATGCCGCCAGAY
17634 P C S ATGACGTGGCAGACGGATGCCGCCAGAY
17634 T G S CCTCTCTGGCGGCATCGAGCGGGGCGGGTGGTGGGAC
17634 T C S CCTCTCTGGCGGCATCCAGCGGGGCGGGTGGTGGGAC
AGACTTCTCTGGGGACCACAAAGGCTGTGACTGGGAAGAGAAAGCCTCTCTGGCGGCATC[GC]AGCGGGGCGGGTGGTGGGACGGGGGTATCAGAGGAA
17634 tS [GC] GGTAGGGGGTTTGGACAACTTGAC
17635 I S GCTGCGTCCAGTGTCACAGGGGCA
17635 P A S CGCGCCGAGGTGTGTGAAGATGAGGAGAY
17635 P G S ATGACGTGGCAGACCGTGTGAAGATGAGGAGAY
17635 T A S TCTTTCTCCTCATCTTCACACAGCCCCTGTGACACTGGACGCAGCCT
17635 T G S TCTTTCTCCTCATCTTCACACGGCCCCTGTGACACTGGACGCAGCCT
GGTAGGGGGTTTGGACAACTTGACCCGGGGTTGGCCACCTCTTTCTCCTCATCTTCACAC[AG]GCCCCTGTGACACTGGACGCAGCCTCGGCCCACCCGG
17635 tS [AG] ATCTCATCCTTTCCCAGGATGAG
17642 I A TCAAGCCCCAGGTAGAAGTGTGCCCCT
17642 P A A CGCGCCGAGGACCTCGTTACTGGAAGCY
17642 P G A ATGACGTGGCAGACGCCTCGTTACTGGAAGY
17642 T A A TGGTGCTTCCAGTAACGAGGTGGGGCACACTTCTACCTGGGGCTTGAAA
17642 T G A TGGTGCTTCCAGTAACGAGGCGGGGCACACTTCTACCTGGGGCTTGAAA
GTGGGGTCTGGGTTTTCTTGTTCCACTGGGAGTTTCAAGCCCCAGGTAGAAGTGTGCCCC[AG]CCTCGTTACTGGAAGCACCATCCACACATGGGCCATCC
17642 tS [AG] CAGCCTGGGACCCTGTGTGCCA
17648 I S AGAGCAGAGGGCAGTGATGAGGCTAAGACCA
17648 P A S CGCGCCGAGGTGAACTCTGTCTGCTCTTY
17648 P G S ATGACGTGGCAGACCGAACTCTGTCTGCTCTY
17648 T A S GCCCAAGAGCAGACAGAGTTCAGGTCTTAGCCTCATCACTGCCCTCTGCTCTCC
17648 T G S GCCCAAGAGCAGACAGAGTTCGGGTCTTAGCCTCATCACTGCCCTCTGCTCTCC
CACATGGAGCTGTTGCTGGTGAGCACTGTCCTCCTTGGGGCCCAAGAGCAGACAGAGTTC[AG]GGTCTTAGCCTCATCACTGCCCTCTGCTCTCCAGGATG
17648 tS [AG] CCTTCCGCGCCTTCCACCCTGA
17684 I A GTGGTCTCATGCACTCCATAGGTGAGATCAAATGAAAGTTTCATATAGAAATAT
17684 P C A ATGACGTGGCAGACCAAAACCTAGAGAACTGGCY
17684 P A A CGCGCCGAGGAAAAACCTAGAGAACTGGCY
17684 T C A ACATGCCAGTTCTCTAGGTTTTGTATTTCTATATGAAACTTTCATTTGATCTCACCTATGGAGTGCATGAGACCACTG
17684 T A A ACATGCCAGTTCTCTAGGTTTTTTATTTCTATATGAAACTTTCATTTGATCTCACCTATGGAGTGCATGAGACCACTG

FIGURE 129E



PCDHAC1

FIGURE 129E

17875	T	T	A	TATTTCGACCTACTAACATGTACATTAATTGAAAACGGAAGGAATCCTAAACTGCATTCCTGAG
17875	IS	[CT]		GAATCTGAGTCATCTTATTTCTCAGGAATGCAGTTTAGGATTCCTTCCGTTTTCAATTAA[CT]GTACATGTTAGTAGGTCGAAATATAATCTAGTCTATAGAGA CGATTGAGTAAATCCTAAC
17892	I		S	CCACTGTGGACTCTACAGAATGGGAGGTGGGA
17892	P	G	S	ATGACGTGGCAGACCGAGGAGATGCTCTCCY
17892	P	A	S	CGCGCCGAGGTGAGGAGATGCTCTCCY
17892	T	G	S	CCAGGGAGAGCATCTCCTCGCCCACCTCCCATTCTGTAGAGTCCACAGTGGGA
17892	T	A	S	CCAGGGAGAGCATCTCCTCACCCACCTCCCATTCTGTAGAGTCCACAGTGGGA
17892	IS	[GA]		CCTGGAGCCCAGAGATCACAGCAGGCTGGGACATAAACAGCCCAGGGAGAGCATCTCCTC[GA]CCCACCTCCCATTCTGTAGAGTCCACAGTGGGACTCC GGGAGAGAAGTCTGGGCTGTCCC
17901	I		S	CGTTTTCTCCAGATGGCACTGCCGGTGT
17901	P	T	S	CGCGCCGAGGACCCCATGGCTTCTTY
17901	P	C	S	ATGACGTGGCAGACGCCCCATGGCTTCTY
17901	T	T	S	GTGGAAGAAGCCATGGGGTCACCGGCAGTGCCATCTGGAGAAAACGCA
17901	T	C	S	GTGGAAGAAGCCATGGGGCCACCGGCAGTGCCATCTGGAGAAAACGCA
17901	IS	[TC]		CACCTGGGCACCAAGGAGTCTCTTGACAGAGCCACAGTAAGAGTGGAAGAAGCCATGGGG[TC]CACCGGCAGTGCCATCTGGAGAAAACGCAGCCTTGGT GCCAAGTGGGGCCTGGGTATGCG
17915	I		A	CCTGAAAAGTATTGGAAATATCACTGGGCCCCTCTACCT
17915	P	A	A	CGCGCCGAGGATGAGCTGGTTCCTAATATTGY
17915	P	G	A	ATGACGTGGCAGACGTGAGCTGGTTCCTAATATTY
17915	T	A	A	AGCTCAATATTAGGAACCAGCTCATGGTAGAGGGGCCCAGTGATATTTCCAATACTTTTCAGGGG
17915	T	G	A	AGCTCAATATTAGGAACCAGCTCACGGTAGAGGGGCCCAGTGATATTTCCAATACTTTTCAGGGG
17915	IS	[AG]		CCTCCTTGGCTTAGGTGTATCCCCTGAAAAGTATTGGAAATATCACTGGGCCCCTCTACC[AG]TGAGCTGGTTCCTAATATTGAGCTGAAATCTCTCTCTCTT TCCCCAGGACTTCCCTCCAT
17949	I		A	AGAATCATCCCATCTTTCAGGTTCCATCTTATTTTAGAAGCT
17949	P	G	A	ATGACGTGGCAGACGAGAATCTCAAAACTGTCAGGY
17949	P	A	A	CGCGCCGAGGAAGAATCTCAAAACTGTCAGGY
17949	T	G	A	TTGGCCTGACAGTTTTGAGATTCTCGCTTCTAAAATAAGATGGAACCTGAAAGATGGGATGATTCTAG
17949	T	A	A	TTGGCCTGACAGTTTTGAGATTCTTGCTTCTAAAATAAGATGGAACCTGAAAGATGGGATGATTCTAG
17949	IS	[GA]		GTCAAATACTTAGTATGCTAGAATCATCCCATCTTTCAGGTTCCATCTTATTTTAGAAGC[GA]AGAATCTCAAAACTGTCAGGCCAAGGTGTAGAACTGTCAT CTTCGAGCACAGTGATTCCT
18050	I		S	CGGGCCCCTTGTATCCACTGGAAACAATGGC
18050	P	A	S	CGCGCCGAGGTCCGCTGATTGGAGCY
18050	P	T	S	ATGACGTGGCAGACACCGCTGATTGGAGCY
18050	T	A	S	TCTTGCTCCAATCAGCGGACCATTGTTTCCAGTGGATACAAGGGGCCCGTT
18050	T	T	S	TCTTGCTCCAATCAGCGGTCCATTGTTTCCAGTGGATACAAGGGGCCCGTT
18050	IS	[AT]		TGCTGAAAATGAAGCAACTGGCCCTGGCCTTATTCCTCCACCTCTTGCTCCAATCAGCGG[AT]CCATTGTTTCCAGTGGATACAAGGGGCCCGTTCATGAGA AGAGGACCTCCTTTCCCCCCA
18055	I		A	GGCAAAGCTGAGGCAGGAATTTCGGAAGATAAATAAAAAGCA
18055	P	T	A	CGCGCCGAGGTGGCTTTATGTTCAGAAAGATY
18055	P	C	A	ATGACGTGGCAGACCGGCTTTATGTTCAGAAAGAY
18055	T	T	A	TAATATCTTTCTGAACATAAAGCCAGCTTTTTATTTATCTTCCGAAATTCCTGCCTCAGCTTTGCCCC
18055	T	C	A	TAATATCTTTCTGAACATAAAGCCGGCTTTTTATTTATCTTCCGAAATTCCTGCCTCAGCTTTGCCCC
18055	IS	[TC]		GTTTCCTAGGATCCATAGGGGCAAAGCTGAGGCAGGAATTTCGGAAGATAAATAAAAAGC[TC]GGCTTTATGTTCAGAAAGATATTAAATTTAGATGCTAACA AACAGGGAAGTTCATTAATA
18119	I		S	AGTGAGCTGTGTCCTAGGATTCACCCACACCT
18119	P	T	S	CGCGCCGAGGAACATCATTTCAAGTAATCATAAAATAGY
18119	P	C	S	ATGACGTGGCAGACGACATCATTTCAAGTAATCATAAAATAGY
18119	T	T	S	TCCACTATTTTATGATTACTTGAAATGATGTTGGTGTGGGTGAATCCTAGGACACAGCTCACTGA
18119	T	C	S	TCCACTATTTTATGATTACTTGAAATGATGTCGGTGTGGGTGAATCCTAGGACACAGCTCACTGA
18119	IS	[TC]		TTTCTCAAATACTTCTACGTCTCTTGAAATCCACTATTTTATGATTACTTGAAATGATGT[TC]GGTGTGGGTGAATCCTAGGACACAGCTCACTGAGAGGACA GGCTGCCGAGAACATTGTAG
18147	I		A	CACCTCTACCCCTATTAGTCCTGCCATTACCATTTTACTTAATCGA
18147	P	C	A	ATGACGTGGCAGACCTTAGCCAGGCCTGAY
18147	P	T	A	CGCGCCGAGGTTTAGCCAGGCCTGATAY
18147	T	C	A	TATGTATCAGGCCTGGCTAAGCGATTAAGTAAAATGGTAATGGCAGGACTAATAGGGGTAGAGGTGAC
18147	T	T	A	TATGTATCAGGCCTGGCTAAACGATTAAGTAAAATGGTAATGGCAGGACTAATAGGGGTAGAGGTGAC
18147	IS	[CT]		TGTTGCTTGCTCTGTCACCTCTACCCCTATTAGTCCTGCCATTACCATTTTACTTAATCG[CT]TTAGCCAGGCCTGATACATAGTAGTCTTTGCTAACTGGATA TTATGGAGGTAAAGCTGAA
18154	I		S	GCGCTATTGGGACCCTGGGACAGAGTTGT
18154	P	T	S	CGCGCCGAGGACAGTGAACTTTGGCAGY
18154	P	G	S	ATGACGTGGCAGACCCAGTGAACTTTGGCAGY
18154	T	T	S	TCCTCTGCCAAAGTTCACTGTCAACTCTGTCCCAGGGTCCCAATAGCGCTA
18154	T	G	S	TCCTCTGCCAAAGTTCACTGGCAACTCTGTCCCAGGGTCCCAATAGCGCTA
18154	IS	[TG]		AAGAATCCAGGTTCCCTAATCACACGAAAAAGGTACCTCCTCCTCTGCCAAAGTTCACTG[TG]CAACTCTGTCCCAGGGTCCCAATAGCGCTAACATAAGCC CCCCTCCACCAGTGTAGAATG
18174	I		A	GTCCTGGGGGAGGGTGGGGAACAT
18174	P	A	A	CGCGCCGAGGAGGTGCAGCTGCTY
18174	P	G	A	ATGACGTGGCAGACGGGTGCAGCTGCTY
18174	T	A	A	TGGCAGCAGCTGCACCTTGTTCCCCACCCTCCCCCAGGACTT
18174	T	G	A	TGGCAGCAGCTGCACCCTGTTCCCCACCCTCCCCCAGGACTT
18174	IS	[AG]		GGCTGAGGCCTGAAGATGACAGCTTGTCTTCAGGAAAGTCCTGGGGGAGGGTGGGGAACA[AG]GGTGCAGCTGCTGCCAGGAGAGTGTGATATTAGGGG AGAGATCAGGAATTATGCTGTGTT
18196	I		S	GGGGATTATGCTGGAGGTAGCGGTTTGTCAGT
18196	P	C	S	ATGACGTGGCAGACGGGCTTCCCTGCAY
18196	P	T	S	CGCGCCGAGGAGGCTTCCCTGCAGY
18196	T	C	S	CTCCCTGCAGGGAAGCCCCTGACAAACCGCTACCTCCAGCATAATCCCCTT
18196	T	T	S	CTCCCTGCAGGGAAGCCTCTGACAAACCGCTACCTCCAGCATAATCCCCTT
18196	IS	[CT]		GATCACATGAAAATTCTCCCTTTGGGACAGGAGCGGCCACTTTCTCCCTGCAGGGAAGCC[CT]CTGACAAACCGCTACCTCCAGCATAATCCCCTTCCTCTC CCCACAGCCGGTCCCCGCCCT
18213	I		S	GGAGAATCCTCCTCAAGCCACTCTCCACTGTGT
18213	P	T	S	CGCGCCGAGGAGGAAGCCAAGGGTCY
18213	P	C	S	ATGACGTGGCAGACGGGAAGCCAAGGGTY
18213	T	T	S	TCTAGACCCTTGGCTTCCTCACAGTGGAGAGTGGCTTGAGGAGGATTCTCCTA
18213	T	C	S	TCTAGACCCTTGGCTTCCCCACAGTGGAGAGTGGCTTGAGGAGGATTCTCCTA
18213	IS	[TC]		AGTCACCAAAATGCACATTCCAGCTCAAAGTACAGAAAACCTTCTAGACCCTTGGCTTCC[TC]CACAGTGGAGAGTGGCTTGAGGAGGATTCTCCTAGGTCT GCCCCAGCTGGGATCCTGCAG
18250	I		A	TGTTATTTCATCAATGAGTATTTTACTTAAAATCCAGTTAAAACTCTACCTAGAAACTT
18250	P	A	A	CGCGCCGAGGACCTCTTATTTAATAGCCAAATCTY
18250	P	G	A	ATGACGTGGCAGACGCCTCTTATTTAATAGCCAAATCY
18250	T	A	A	TTGCAGATTTGGCTATTAAATAAGAGGTAGTTTCTAGGTAGAGTTTTAACTGGATTTTAAGTAAAATACTCATTGATGAAATAACACA
18250	T	G	A	TTGCAGATTTGGCTATTAAATAAGAGGCAGTTTCTAGGTAGAGTTTTAACTGGATTTTAAGTAAAATACTCATTGATGAAATAACACA
18250	IS	[AG]		TGTGTTATTTCATCAATGAGTATTTTACTTAAAATCCAGTTAAAACTCTACCTAGAAACT[AG]CCTCTTATTTAATAGCCAAATCTGCAAACTCATTTTTAGTTTT GCACACTTACAAAATAG
18268	I		S	GCACTAGAAATTTGAATGTGTTGATTCTGGGGTGCA
18268	P	A	S	CGCGCCGAGGTAGCCCCAAAGGTTTTAGY
18268	P	G	S	ATGACGTGGCAGACCAGCCCCAAAGGTTTTAY

FIGURE 129E

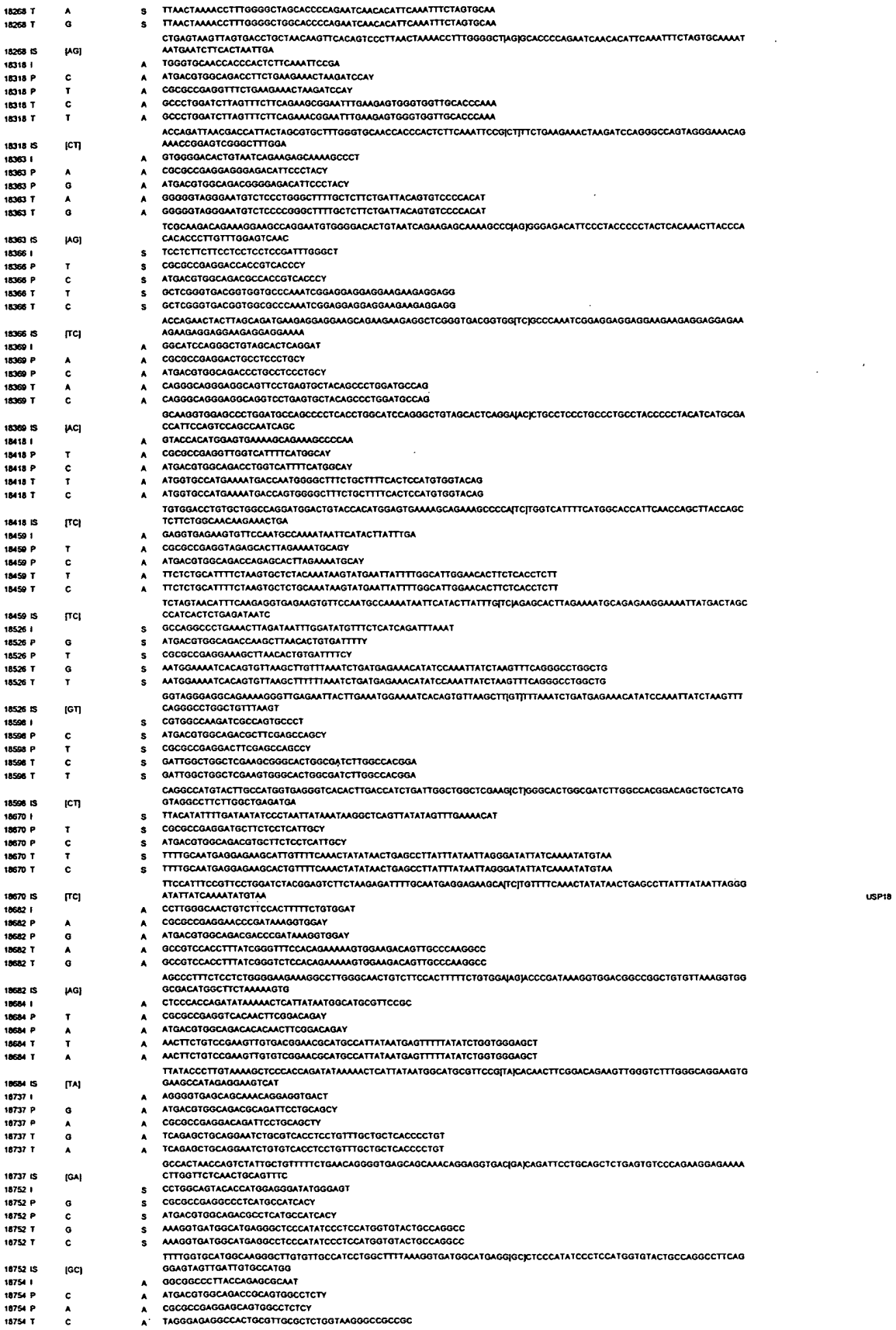

18268 T A S TTAACTAAAACCTTTGGGGCTAGCACCCCAGAATCAACACATTCAAATTTCTAGTGCAA
18268 T G S TTAACTAAAACCTTTGGGGCTGGCACCCCAGAATCAACACATTCAAATTTCTAGTGCAA
18268 IS [AG] CTGAGTAAGTTAGTGACCTGCTAACAAGTTCACAGTCCCTTAACTAAAACCTTTGGGGCT[AG]GCACCCCAGAATCAACACATTCAAATTTCTAGTGCAAAAT AATGAATCTTCACTAATTGA
18318 I A TGGGTGCAACCACCCACTCTTCAAATTCCGA
18318 P C A ATGACGTGGCAGACCTTCTGAAGAAACTAAGATCCAY
18318 P T A CGCGCCGAGGTTTCTGAAGAAACTAAGATCCAY
18318 T C A GCCCTGGATCTTAGTTTCTTCAGAAGCGGAATTTGAAGAGTGGGTGGTTGCACCCAAA
18318 T T A GCCCTGGATCTTAGTTTCTTCAGAAACGGAATTTGAAGAGTGGGTGGTTGCACCCAAA
18318 IS [CT] ACCAGATTAACGACCATTACTAGCGTGCTTTGGGTGCAACCACCCACTCTTCAAATTCCG[CT]TTCTGAAGAAACTAAGATCCAGGGCCAGTAGGGAAACAG AAACCGGAGTCGGGCTTTGGA
18363 I A GTGGGGACACTGTAATCAGAAGAGCAAAAGCCCT
18363 P A A CGCGCCGAGGAGGGAGACATTCCCTACY
18363 P G A ATGACGTGGCAGACGGGGAGACATTCCCTACY
18363 T A A GGGGGTAGGGAATGTCTCCCTGGGCTTTTGCTCTTCTGATTACAGTGTCCCCACAT
18363 T G A GGGGGTAGGGAATGTCTCCCCGGGCTTTTGCTCTTCTGATTACAGTGTCCCCACAT
18363 IS [AG] TCGCAAGACAGAAAGGAAGCCAGGAATGTGGGGACACTGTAATCAGAAGAGCAAAAGCCC[AG]GGGAGACATTCCCTACCCCCTACTCACAAACTTACCCA CACACCCTTGTTTGGAGTCAAC
18366 I S TCCTCTTCTTCCTCCTCCTCCGATTTGGGCT
18366 P T S CGCGCCGAGGACCACCGTCACCCY
18366 P C S ATGACGTGGCAGACGCCACCGTCACCCY
18366 T T S GCTCGGGTGACGGTGGTGCCCAAATCGGAGGAGGAGGAAGAAGAGGAGG
18366 T C S GCTCGGGTGACGGTGGCGCCCAAATCGGAGGAGGAGGAAGAAGAGGAGG
18366 IS [TC] ACCAGAACTACTTAGCAGATGAAGAGGAAGCAGAAGAAGAGGCTCGGGTGACGGTGG[TC]GCCCAAATCGGAGGAGGAGGAAGAAGAGGAGGAGAA AGAAGAGGAGGAAGAGGAGGAAAA
18369 I A GGCATCCAGGGCTGTAGCACTCAGGAT
18369 P A A CGCGCCGAGGACTGCCTCCCTGCY
18369 P C A ATGACGTGGCAGACCCTGCCTCCCTGCY
18369 T A A CAGGGCAGGGAGGCAGTTCCTGAGTGCTACAGCCCTGGATGCCAG
18369 T C A CAGGGCAGGGAGGCAGGTCCTGAGTGCTACAGCCCTGGATGCCAG
18369 IS [AC] GCAAGGTGGAGCCCTGGATGCCAGCCCCTCACCTGGCATCCAGGGCTGTAGCACTCAGGA[AC]CTGCCTCCCTGCCCTGCCTACCCCCTACATCATGCGA CCATTCCAGTCCAGCCAATCAGC
18418 I A GTACCACATGGAGTGAAAAGCAGAAAGCCCCAA
18418 P T A CGCGCCGAGGTTGGTCATTTTCATGGCAY
18418 P C A ATGACGTGGCAGACCTGGTCATTTTCATGGCAY
18418 T T A ATGGTGCCATGAAAATGACCAATGGGGCTTTCTGCTTTTCACTCCATGTGGTACAG
18418 T C A ATGGTGCCATGAAAATGACCAGTGGGGCTTTCTGCTTTTCACTCCATGTGGTACAG
18418 IS [TC] TGTGGACCTGTGCTGGCCAGGATGGACTGTACCACATGGAGTGAAAAGCAGAAAGCCCCA[TC]TGGTCATTTTCATGGCACCATTCAACCAGCTTACCAGC TCTTCTGGCAACAAGAAACTGA
18459 I A GAGGTGAGAAGTGTTCCAATGCCAAAATAATTCATACTTATTTGA
18459 P T A CGCGCCGAGGTAGAGCACTTAGAAAATGCAGY
18459 P C A ATGACGTGGCAGACCAGAGCACTTAGAAAATGCAY
18459 T T A TTCTCTGCATTTTCTAAGTGCTCTACAAATAAGTATGAATTATTTTGGCATTGGAACACTTCTCACCTCTT
18459 T C A TTCTCTGCATTTTCTAAGTGCTCTGCAAATAAGTATGAATTATTTTGGCATTGGAACACTTCTCACCTCTT
18459 IS [TC] TCTAGTAACATTTCAAGAGGTGAGAAGTGTTCCAATGCCAAAATAATTCATACTTATTTG[TC]AGAGCACTTAGAAAATGCAGAGAAGGAAAATTATGACTAGC CCATCACTCTGAGATAATC
18526 I S GCCAGGCCCTGAAACTTAGATAATTTGGATATGTTTCTCATCAGATTTAAAT
18526 P G S ATGACGTGGCAGACCAAGCTTAACACTGTGATTTTY
18526 P T S CGCGCCGAGGAAAGCTTAACACTGTGATTTTCY
18526 T G S AATGGAAAATCACAGTGTTAAGCTTGTTTAAATCTGATGAGAAACATATCCAAATTATCTAAGTTTCAGGGCCTGGCTG
18526 T T S AATGGAAAATCACAGTGTTAAGCTTTTTTAAATCTGATGAGAAACATATCCAAATTATCTAAGTTTCAGGGCCTGGCTG
18526 IS [GT] GGTAGGGAGGCAGAAAAGGGTTGAGAATTACTTGAAATGGAAAATCACAGTGTTAAGCTT[GT]TTTAAATCTGATGAGAAACATATCCAAATTATCTAAGTTT CAGGGCCTGGCTGTTTAAGT
18598 I S CGTGGCCAAGATCGCCAGTGCCCT
18598 P C S ATGACGTGGCAGACGCTTCGAGCCAGCY
18598 P T S CGCGCCGAGGACTTCGAGCCAGCCY
18598 T C S GATTGGCTGGCTCGAAGCGGGCACTGGCGATCTTGGCCACGGA
18598 T T S GATTGGCTGGCTCGAAGTGGGCACTGGCGATCTTGGCCACGGA
18598 IS [CT] CAGGCCATGTACTTGCCATGGTGAGGGTCACACTTGACCATCTGATTGGCTGGCTCGAAG[CT]GGGCACTGGCGATCTTGGCCACGGACAGCTGCTCATG GTAGGCCTTCTTGGCTGAGATGA
18670 I S TTACATATTTTGATAATATCCCTAATTATAAATAAGGCTCAGTTATATAGTTTGAAAACAT
18670 P T S CGCGCCGAGGATGCTTCTCCTCATTGCY
18670 P C S ATGACGTGGCAGACGTGCTTCTCCTCATTGCY
18670 T T S TTTTGCAATGAGGAGAAGCATTGTTTTCAAACTATATAACTGAGCCTTATTTATAATTAGGGATATTATCAAAATATGTAA
18670 T C S TTTTGCAATGAGGAGAAGCACTGTTTTCAAACTATATAACTGAGCCTTATTTATAATTAGGGATATTATCAAAATATGTAA
18670 IS [TC] TTCCATTTCCGTTCCTGGATCTACGGAGTCTTCTAAGAGATTTTGCAATGAGGAGAAGCA[TC]TGTTTTCAAACTATATAACTGAGCCTTATTTATAATTAGGG ATATTATCAAAATATGTAA
18682 I A CCTTGGGCAACTGTCTTCCACTTTTTCTGTGGAT
18682 P A A CGCGCCGAGGAACCCGATAAAGGTGGAY
18682 P G A ATGACGTGGCAGACGACCCGATAAAGGTGGAY
18682 T A A GCCGTCCACCTTTATCGGGTTTCCACAGAAAAAGTGGAAGACAGTTGCCCAAGGCC
18682 T G A GCCGTCCACCTTTATCGGGTCTCCACAGAAAAAGTGGAAGACAGTTGCCCAAGGCC
18682 IS [AG] AGCCCTTTCTCCTCTGGGGAAGAAAGGCCTTGGGCAACTGTCTTCCACTTTTTCTGTGGA[AG]ACCCGATAAAGGTGGACGGCCGGCTGTGTTAAAGGTGG GCGACATGGCTTCTAAAAAGTG
18684 I A CTCCCACCAGATATAAAAACTCATTATAATGGCATGCGTTCCGC
18684 P T A CGCGCCGAGGTCACAACTTCGGACAGAY
18684 P A A ATGACGTGGCAGACACACAACTTCGGACAGAY
18684 T T A AACTTCTGTCCGAAGTTGTGACGGAACGCATGCCATTATAATGAGTTTTTATATCTGGTGGGAGCT
18684 T A A AACTTCTGTCCGAAGTTGTGTCGGAACGCATGCCATTATAATGAGTTTTTATATCTGGTGGGAGCT
18684 IS [TA] TTATACCCTTGTAAAAGCTCCCACCAGATATAAAAACTCATTATAATGGCATGCGTTCCG[TA]CACAACTTCGGACAGAAGTTGGGTCTTTGGGCAGGAAGTG GAAGCCATAGAGGAAGTCAT
18737 I A AGGGGTGAGCAGCAAACAGGAGGTGACT
18737 P G A ATGACGTGGCAGACGCAGATTCCTGCAGCY
18737 P A A CGCGCCGAGGACAGATTCCTGCAGCTY
18737 T G A TCAGAGCTGCAGGAATCTGCGTCACCTCCTGTTTGCTGCTCACCCCTGT
18737 T A A TCAGAGCTGCAGGAATCTGTGTCACCTCCTGTTTGCTGCTCACCCCTGT
18737 IS [GA] GCCACTAACCAGTCTATTGCTGTTTTTCTGAACAGGGGTGAGCAGCAAACAGGAGGTGAC[GA]CAGATTCCTGCAGCTCTGAGTGTCCCAGAAGGAGAAAA CTTGGTTCTCAACTGCAGTTTC
18752 I S CCTGGCAGTACACCATGGAGGGATATGGGAGT
18752 P G S CGCGCCGAGGCCCTCATGCCATCACY
18752 P C S ATGACGTGGCAGACGCCTCATGCCATCACY
18752 T G S AAAGGTGATGGCATGAGGGCTCCCATATCCCTCCATGGTGTACTGCCAGGCC
18752 T C S AAAGGTGATGGCATGAGGCCTCCCATATCCCTCCATGGTGTACTGCCAGGCC
18752 IS [GC] TTTTGGTGCATGGCAAGGGCTTGTGTTGCCATCCTGGCTTTTAAAGGTGATGGCATGAGG[GC]CTCCCATATCCCTCCATGGTGTACTGCCAGGCCTTCAG GGAGTAGTTGATTGTGCCATGG
18754 I A GGCGGCCCTTACCAGAGCGCAAT
18754 P C A ATGACGTGGCAGACCGCAGTGGCCTCTY
18754 P A A CGCGCCGAGGAGCAGTGGCCTCTCY
18754 T C A TAGGGAGAGGCCACTGCGTTGCGCTCTGGTAAGGGCCGCCGC

FIGURE 129E

18754	T	A	A	TAGGGAGAGGCCACTGCTTTGCGCTCTGGTAAGGGCCGCCGC	
18754	IS	[CA]		GCGACCTGCTCTGTGAAAGTTAAGTTCGCGGCGGCCGCGGCGGCCCTTACCAGAGCGCAA[CA]GCAGTGGCCTCTCCCTAGCCGGGCCAAGAGCCCGCT CGCCGCGGCCCTGGGGCTCCAGGA	
18771	I		S	TGCCGCTGAACGCCTCCCCACA	
18771	P	G	S	ATGACGTGGCAGACCCACCTGTCCACCCY	
18771	P	A	S	CGCGCCGAGGTCACCTGTCCACCCY	
18771	T	G	S	GGGCGGGTGGACAGGTGGGTGGGGAGGCGTTCAGCGGCAGC	
18771	T	A	S	GGGCGGGTGGACAGGTGAGTGGGGAGGCGTTCAGCGGCAGC	
18771	IS	[GA]		CCAGAGCTCTGGAGTTCTTGCCTGGCTCCAGGAAGCGATCTGCGGGCGGGTGGACAGGTG[GA]GTGGGGAGGCGTTCAGCGGCAGCGGGGACCAGCCT CCACCACATTTTCACGGCAGGCCCC	
18812	I		S	GCGGGTACCACGCTCCAGCCTGA	
18812	P	G	S	ATGACGTGGCAGACCGGCCAGACAGGAGY	
18812	P	A	S	CGCGCCGAGGTGGCCAGACAGGAGY	
18812	T	G	S	GCGTCTCCTGTCTGGCCGCAGGCTGGAGCGTGGTACCCGCCC	
18812	T	A	S	GCGTCTCCTGTCTGGCCACAGGCTGGAGCGTGGTACCCGCCC	
18812	IS	[GA]		ACCTTCGCAGCTGCGGAGATCTGAGCTCTAGCTCTTCCCTGCGGCGTCTCCTGTCTGGCC[GA]CAGGCTGGAGCGTGGTACCCGCCCCCACAGCCTCAGC CTCAACGGGGGCAGCCGGGAGAC	C1ORF2
18836	I		A	TGCCCCTGCCCCCAGCCCC	
18836	P	T	A	CGCGCCGAGGTCCAGCCCCCTCAY	
18836	P	G	A	ATGACGTGGCAGACGCCAGCCCCCTCY	
18836	T	T	A	ACAGTGAGGGGGCTGGAGGGCTGGGGGCAGGGGCAGT	
18836	T	G	A	ACAGTGAGGGGGCTGGCGGGCTGGGGGCAGGGGCAGT	
18836	IS	[TG]		AGCCGTTCCGGGGAGGCCGGCCTGAGGCCCTCAGGTCAGCACTGCCCCTGCCCCCAGCCC[TG]CCAGCCCCCTCACTGTACCTGAGTGTCCATCATGGC CCACCAGCTTACTGGGTTGAAGCG	
18839	I		S	CTGCCAGAGGGATGCCCTCCTTCCAA	
18839	P	A	S	CGCGCCGAGGTCTATTGTGCTGCTTCTGY	
18839	P	G	S	ATGACGTGGCAGACCCTATTGTGCTGCTTCTGY	
18839	T	A	S	GGATCAGAAGCAGCACAATAGATGGAAGGAGGGCATCCCTCTGGCAGGG	
18839	T	G	S	GGATCAGAAGCAGCACAATAGGTGGAAGGAGGGCATCCCTCTGGCAGGG	
18839	IS	[AG]		GGGGCCAAGGTGGGGCTGGGCTTCAAATGGGGCAGGACAGGATCAGAAGCAGCACAATAG[AG]TGGAAGGAGGGCATCCCTCTGGCAGGGGAGTCATGC CACCGGCCCATCCTCCAGCTTTGC	
18881	I		S	ACTTACAGCCTCTCAGTAAAACAAAACCTTAATGGTCATCTCATCCT	
18881	P	T	S	CGCGCCGAGGATTTACCCTTCCACAATCTGY	
18881	P	C	S	ATGACGTGGCAGACGTTTACCCTTCCACAATCTY	
18881	T	T	S	GATTCAGATTGTGGAAGGGTAAATGGATGAGATGACCATTAAGGTTTTGTTTTACTGAGAGGCTGTAAGTCT	
18881	T	C	S	GATTCAGATTGTGGAAGGGTAAACGGATGAGATGACCATTAAGGTTTTGTTTTACTGAGAGGCTGTAAGTCT	
18881	IS	[TC]		ATGGCTGTTTGTCAGGAGGCGGTAGAAAGGTAGAAAGGATTCAGATTGTGGAAGGGTAAA[TC]GGATGAGATGACCATTAAGGTTTTGTTTTACTGAGAGG CTGTAAGTCTGCCAGGGACAGC	KIAA1036
18896	I		A	GACACTGGTGAGCAAGGGTCGGGGAC	
18896	P	G	A	ATGACGTGGCAGACGTTCTAGTGCGTAACAGTCY	
18896	P	T	A	CGCGCCGAGGTTTCTAGTGCGTAACAGTCY	
18896	T	G	A	CCTAGACTGTTACGCACTAGAACTCCCCGACCCTTGCTCACCAGTGTCCC	
18896	T	T	A	CCTAGACTGTTACGCACTAGAAATCCCCGACCCTTGCTCACCAGTGTCCC	
18896	IS	[GT]		CGGCCTTCCCATCCTGGAGGGCCCCCAGTCTCTGGGACACTGGTGAGCAAGGGTCGGGGA[GT]TTCTAGTGCGTAACAGTCTAGGGAGAGACTCCTGTGG TGGTGCATGGAAGGGCAGGTCTG	
18905	I		S	CCCCGCAGCCCTGTAGCAGAAGTACTTAGA	
18905	P	G	S	ATGACGTGGCAGACCGCTTTGCATTCTGCY	
18905	P	A	S	CGCGCCGAGGTGCTTTGCATTCTGCGY	
18905	T	G	S	GGCGCGCAGAATGCAAAGCGCTAAGTACTTCTGCTACAGGGCTGCGGGGCA	
18905	T	A	S	GGCGCGCAGAATGCAAAGCACTAAGTACTTCTGCTACAGGGCTGCGGGGCA	
18905	IS	[GA]		GGTTCGGAAGCAACGATTCACAGAGGAGGCCGGGGTAGGGTGGCGCGCAGAATGCAAAGC[GA]CTAAGTACTTCTGCTACAGGGCTGCGGGGCAGGGCT GAGGGGCGTGGAGAGCTGTGGACA	
18938	I		S	CCTAGGCTCATCTCTGGAACATGGTCCTACAAAATTGAGAA	
18938	P	G	S	ATGACGTGGCAGACCGAATTCCAGCCCTCAY	
18938	P	A	S	CGCGCCGAGGTGAATTCCAGCCCTCAY	
18938	T	G	S	CAGCTGAGGGCTGGAATTCGTCTCAATTTTGTAGGACCATGTTCCAGAGATGAGCCTAGGAC	
18938	T	A	S	CAGCTGAGGGCTGGAATTCATCTCAATTTTGTAGGACCATGTTCCAGAGATGAGCCTAGGAC	
18938	IS	[GA]		TCCTGCAGCTTATATCACAACTAGAAACCTCATTATCATTGCAGCTGAGGGCTGGAATTC[GA]TCTCAATTTTGTAGGACCATGTTCCAGAGATGAGCCTAGG ACTTCCTAACACTCTTTTTC	
18952	I		S	CTATCCCTTCCCTTGATCTTTGTGTGTCAGCTTTTCTTACCT	
18952	P	C	S	ATGACGTGGCAGACGGTAGGGCTGTCAGTY	
18952	P	T	S	CGCGCCGAGGAGTAGGGCTGTCAGTGY	
18952	T	C	S	GGTTCACTGACAGCCCTACCGGTAAGAAAAGCTGACACACAAAGATCAAGGGAAGGGATAGCA	
18952	T	T	S	GGTTCACTGACAGCCCTACTGGTAAGAAAAGCTGACACACAAAGATCAAGGGAAGGGATAGCA	
18952	IS	[CT]		CTCCTGAAAGAGCAAGAGGCCCCTTTCATCTTAGTAACTGAGGTTCACTGACAGCCCTAC[CT]GGTAAGAAAAGCTGACACACAAAGATCAAGGGAAGGGAT AGCAAGAGGGACCTATAAATC	
18978	I		A	GGTCTGTGTAACTGGGCTTTCACCAGATTTTGCATCC	
18978	P	G	A	ATGACGTGGCAGACGCACTCTTCCTTCCCTY	
18978	P	T	A	CGCGCCGAGGTCACTCTTCCTTCCCTGY	
18978	T	G	A	TGTTCAGGGAAGGAAGAGTGCGATGCAAAATCTGGTGAAAGCCCAGTTACACAGACCTA	
18978	T	T	A	TGTTCAGGGAAGGAAGAGTGAGATGCAAAATCTGGTGAAAGCCCAGTTACACAGACCTA	
18978	IS	[GT]		GCCCTGTGTCTGTGTCAGACCCTAGGTCTGTGTAACTGGGCTTTCACCAGATTTTGCATC[GT]CACTCTTCCTTCCCTGAACATTTTGCTGCTGCTTCTGCC CACAGCTCCAGTTCCCACTGC	
18997	I		A	GGGCAATGCATTAAGTTCCACACAACGGCACATATTTTAA	
18997	P	C	A	ATGACGTGGCAGACCAGTCATTTGCTAGAATACCTY	
18997	P	T	A	CGCGCCGAGGTAGTCATTTGCTAGAATACCTCY	
18997	T	C	A	AGTGGAGGTATTCTAGCAAATGACTGTAAAATATGTGCCGTTGTGTGGAACTTAATGCATTGCCCTT	
18997	T	T	A	AGTGGAGGTATTCTAGCAAATGACTATAAAATATGTGCCGTTGTGTGGAACTTAATGCATTGCCCTT	
18997	IS	[CT]		ACAAGAGAAAGAATAAGCAAAGGGCAATGCATTAAGTTCCACACAACGGCACATATTTTA[CT]AGTCATTTGCTAGAATACCTCCACTTCAATGATGTCATCC AGTGACCCCGACAAAAGGAT	
19008	I		A	TGAGCACACAAAGCAGGCACCAGCATAAGTCT	
19008	P	A	A	CGCGCCGAGGAATCCGAGTGGGTCATY	
19008	P	G	A	ATGACGTGGCAGACGATCCGAGTGGGTCATY	
19008	T	A	A	TACCATGACCCACTCGGATTGACTTATGCTGGTGCCTGCTTTGTGTGCTCAGG	
19008	T	G	A	TACCATGACCCACTCGGATCGACTTATGCTGGTGCCTGCTTTGTGTGCTCAGG	
19008	IS	[AG]		GCTGAGCCCGGCCTCAGCTCCGGGACCCCTGAGCACACAAAGCAGGCACCAGCATAAGTC[AG]ATCCGAGTGGGTCATGGTAGTAACCCCATTCCCCAGA GGGCTGGCTCTGGGACAGGACAA	
19013	I		S	CCTCCGTCCTCTGCTCCATCCCTCCA	
19013	P	G	S	ATGACGTGGCAGACCGCCAGGCTCCTCY	
19013	P	A	S	CGCGCCGAGGTGCCAGGCTCCTCY	
19013	T	G	S	GTGGGAGGAGCCTGGCGGGAGGGATGGAGCAGAGGACGGAGGCT	
19013	T	A	S	GTGGGAGGAGCCTGGCAGGAGGGATGGAGCAGAGGACGGAGGCT	
19013	IS	[GA]		GCAGAAGTCTTCCCTGTCTGAGTCTCCTGCAAAAGCAGGTGCTGGTGGGAGGAGCCTGGC[GA]GGAGGGATGGAGCAGAGGACGGAGGCTCAGGGGGAT TCCTGCCATCCTTTTCCTAGAACG	
19033	I		A	CCTCCAACTCCCTTGGTCCTCTCCTGCTAT	
19033	P	C	A	CGCGCCGAGGCAGCCTACGTGCACTY	
19033	P	G	A	ATGACGTGGCAGACGAGCCTACGTGCACTY	
19033	T	C	A	TCCAAGTGCACGTAGGCTGTAGCAGGAGAGGACCAAGGGAGTTGGAGGGT	
19033	T	G	A	TCCAAGTGCACGTAGGCTCTAGCAGGAGAGGACCAAGGGAGTTGGAGGGT	

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FIGURE 129E

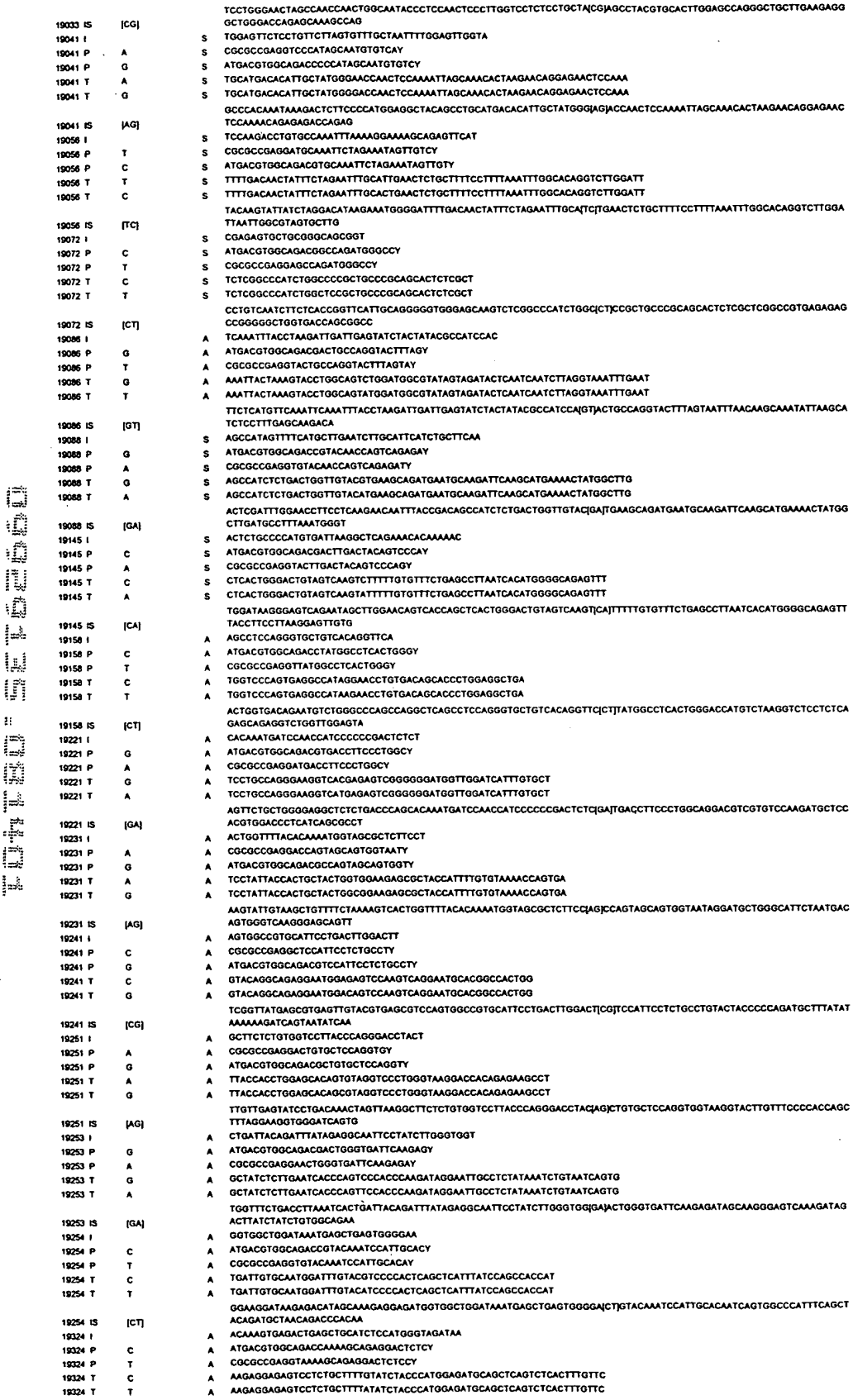

TCCTGGGAACTAGCCAACCAACTGGCAATACCCTCCAACTCCCTTGGTCCTCTCCTGCTA[CG]AGCCTACGTGCACTTGGAGCCAGGGCTGCTTGAAGAGG
19033 IS [CG] GCTGGGACCAGAGCAAAGCCAG
19041 I S TGGAGTTCTCCTGTTCTTAGTGTTTGCTAATTTTGGAGTTGGTA
19041 P A S CGCGCCGAGGTCCCATAGCAATGTGTCAY
19041 P G S ATGACGTGGCAGACCCCCATAGCAATGTGTCY
19041 T A S TGCATGACACATTGCTATGGGAACCAACTCCAAAATTAGCAAACACTAAGAACAGGAGAACTCCAAA
19041 T G S TGCATGACACATTGCTATGGGGACCAACTCCAAAATTAGCAAACACTAAGAACAGGAGAACTCCAAA
GCCCACAAATAAAGACTCTTCCCCATGGAGGCTACAGCCTGCATGACACATTGCTATGGG[AG]ACCAACTCCAAAATTAGCAAACACTAAGAACAGGAGAAC
19041 IS [AG] TCCAAAACAGAGAGACCAGAG
19056 I S TCCAAGACCTGTGCCAAATTTAAAAGGAAAAGCAGAGTTCAT
19056 P T S CGCGCCGAGGATGCAAATTCTAGAAATAGTTGTCY
19056 P C S ATGACGTGGCAGACGTGCAAATTCTAGAAATAGTTGTY
19056 T T S TTTTGACAACTATTTCTAGAATTTGCATTGAACTCTGCTTTTCCTTTTAAATTTGGCACAGGTCTTGGATT
19056 T C S TTTTGACAACTATTTCTAGAATTTGCACTGAACTCTGCTTTTCCTTTTAAATTTGGCACAGGTCTTGGATT
TACAAGTATTATCTAGGACATAAGAAATGGGGATTTTGACAACTATTTCTAGAATTTGCA[TC]TGAACTCTGCTTTTCCTTTTAAATTTGGCACAGGTCTTGGA
19056 IS [TC] TTAATTGGCGTAGTGCTTG
19072 I S CGAGAGTGCTGCGGGCAGCGGT
19072 P C S ATGACGTGGCAGACGGCCAGATGGGCCY
19072 P T S CGCGCCGAGGAGCCAGATGGGCCY
19072 T C S TCTCGGCCCATCTGGCCCCGCTGCCCGCAGCACTCTCGCT
19072 T T S TCTCGGCCCATCTGGCTCCGCTGCCCGCAGCACTCTCGCT
CCTGTCAATCTTCTCACCGGTTCATTGCAGGGGGTGGGAGCAAGTCTCGGCCCATCTGGC[CT]CCGCTGCCCGCAGCACTCTCGCTCGGCCGTGAGAGAG
19072 IS [CT] CCGGGGGCTGGTGACCAGCGGCC
19086 I A TCAAATTTACCTAAGATTGATTGAGTATCTACTATACGCCATCCAC
19086 P G A ATGACGTGGCAGACGACTGCCAGGTACTTTAGY
19086 P T A CGCGCCGAGGTACTGCCAGGTACTTTAGTAY
19086 T G A AAATTACTAAAGTACCTGGCAGTCTGGATGGCGTATAGTAGATACTCAATCAATCTTAGGTAAATTTGAAT
19086 T T A AAATTACTAAAGTACCTGGCAGTATGGATGGCGTATAGTAGATACTCAATCAATCTTAGGTAAATTTGAAT
TTCTCATGTTCAAATTCAAATTTACCTAAGATTGATTGAGTATCTACTATACGCCATCCA[GT]ACTGCCAGGTACTTTAGTAATTTAACAAGCAAATATTAAGCA
19086 IS [GT] TCTCCTTTGAGCAAGACA
19088 I S AGCCATAGTTTTCATGCTTGAATCTTGCATTCATCTGCTTCAA
19088 P G S ATGACGTGGCAGACCGTACAACCAGTCAGAGAY
19088 P A S CGCGCCGAGGTGTACAACCAGTCAGAGATY
19088 T G S AGCCATCTCTGACTGGTTGTACGTGAAGCAGATGAATGCAAGATTCAAGCATGAAAACTATGGCTTG
19088 T A S AGCCATCTCTGACTGGTTGTACATGAAGCAGATGAATGCAAGATTCAAGCATGAAAACTATGGCTTG
ACTCGATTTGGAACCTTCCTCAAGAACAATTTACCGACAGCCATCTCTGACTGGTTGTAC[GA]TGAAGCAGATGAATGCAAGATTCAAGCATGAAAACTATGG
19088 IS [GA] CTTGATGCCTTTAAATGGGT
19145 I S ACTCTGCCCCATGTGATTAAGGCTCAGAAACACAAAAAC
19145 P C S ATGACGTGGCAGACGACTTGACTACAGTCCCAY
19145 P A S CGCGCCGAGGTACTTGACTACAGTCCCAGY
19145 T C S CTCACTGGGACTGTAGTCAAGTCTTTTTGTGTTTCTGAGCCTTAATCACATGGGGCAGAGTTT
19145 T A S CTCACTGGGACTGTAGTCAAGTATTTTTGTGTTTCTGAGCCTTAATCACATGGGGCAGAGTTT
TGGATAAGGGAGTCAGAATAGCTTGGAACAGTCACCAGCTCACTGGGACTGTAGTCAAGT[CA]TTTTTGTGTTTCTGAGCCTTAATCACATGGGGCAGAGTT
19145 IS [CA] TACCTTCCTTAAGGAGTTGTG
19158 I A AGCCTCCAGGGTGCTGTCACAGGTTCA
19158 P C A ATGACGTGGCAGACCTATGGCCTCACTGGGY
19158 P T A CGCGCCGAGGTTATGGCCTCACTGGGY
19158 T C A TGGTCCCAGTGAGGCCATAGGAACCTGTGACAGCACCCTGGAGGCTGA
19158 T T A TGGTCCCAGTGAGGCCATAAGAACCTGTGACAGCACCCTGGAGGCTGA
ACTGGTGACAGAATGTCTGGGCCCAGCCAGGCTCAGCCTCCAGGGTGCTGTCACAGGTTC[CT]TATGGCCTCACTGGGACCATGTCTAAGGTCTCCTCTCA
19158 IS [CT] GAGCAGAGGTCTGGTTGGAGTA
19221 I A CACAAATGATCCAACCATCCCCCCGACTCTCT
19221 P G A ATGACGTGGCAGACGTGACCTTCCCTGGCY
19221 P A A CGCGCCGAGGATGACCTTCCCTGGCY
19221 T G A TCCTGCCAGGGAAGGTCACGAGAGTCGGGGGGATGGTTGGATCATTTGTGCT
19221 T A A TCCTGCCAGGGAAGGTCATGAGAGTCGGGGGGATGGTTGGATCATTTGTGCT
AGTTCTGCTGGGGAGGCTCTCTGACCCAGCACAAATGATCCAACCATCCCCCCGACTCTC[GA]TGACCTTCCCTGGCAGGACGTCGTGTCCAAGATGCTCC
19221 IS [GA] ACGTGGACCCTCATCAGCGCCT
19231 I A ACTGGTTTTACACAAAATGGTAGCGCTCTTCCT
19231 P A A CGCGCCGAGGACCAGTAGCAGTGGTAATY
19231 P G A ATGACGTGGCAGACGCCAGTAGCAGTGGTY
19231 T A A TCCTATTACCACTGCTACTGGTGGAAGAGCGCTACCATTTTGTGTAAAACCAGTGA
19231 T G A TCCTATTACCACTGCTACTGGCGGAAGAGCGCTACCATTTTGTGTAAAACCAGTGA
AAGTATTGTAAGCTGTTTTCTAAAAGTCACTGGTTTTACACAAAATGGTAGCGCTCTTCC[AG]CCAGTAGCAGTGGTAATAGGATGCTGGGCATTCTAATGAC
19231 IS [AG] AGTGGGTCAAGGGAGCAGTT
19241 I A AGTGGCCGTGCATTCCTGACTTGGACTT
19241 P C A CGCGCCGAGGCTCCATTCCTCTGCCTY
19241 P G A ATGACGTGGCAGACGTCCATTCCTCTGCCTY
19241 T C A GTACAGGCAGAGGAATGGAGAGTCCAAGTCAGGAATGCACGGCCACTGG
19241 T G A GTACAGGCAGAGGAATGGACAGTCCAAGTCAGGAATGCACGGCCACTGG
TCGGTTATGAGCGTGAGTTGTACGTGAGCGTCCAGTGGCCGTGCATTCCTGACTTGGAC[TC]GTCCATTCCTCTGCCTGTACTACCCCCAGATGCTTTATAT
19241 IS [CG] AAAAAAGATCAGTAATATCAA
19251 I A GCTTCTCTGTGGTCCTTACCCAGGGACCTACT
19251 P A A CGCGCCGAGGACTGTGCTCCAGGTGY
19251 P G A ATGACGTGGCAGACGCTGTGCTCCAGGTY
19251 T A A TTACCACCTGGAGCACAGTGTAGGTCCCTGGGTAAGGACCACAGAGAAGCCT
19251 T G A TTACCACCTGGAGCACAGCGTAGGTCCCTGGGTAAGGACCACAGAGAAGCCT
TTGTTGAGTATCCTGACAAACTAGTTAAGGCTTCTCTGTGGTCCTTACCCAGGGACCTAC[AG]CTGTGCTCCAGGTGGTAAGGTACTTGTTTCCCCACCAGC
19251 IS [AG] TTTAGGAAGGTGGGATCAGTG
19253 I A CTGATTACAGATTTATAGAGGCAATTCCTATCTTGGGTGGT
19253 P G A ATGACGTGGCAGACGACTGGGTGATTCAAGAGY
19253 P A A CGCGCCGAGGAACTGGGTGATTCAAGAGAY
19253 T G A GCTATCTCTTGAATCACCCAGTCCCACCCAAGATAGGAATTGCCTCTATAAATCTGTAATCAGTG
19253 T A A GCTATCTCTTGAATCACCCAGTTCCACCCAAGATAGGAATTGCCTCTATAAATCTGTAATCAGTG
TGGTTTCTGACCTTAAATCACTGATTACAGATTTATAGAGGCAATTCCTATCTTGGGTGG[GA]ACTGGGTGATTCAAGAGATAGCAAGGGAGTCAAAGATAG
19253 IS [GA] ACTTATCTATCTGTGGCAGAA
19254 I A GGTGGCTGGATAAATGAGCTGAGTGGGGAA
19254 P C A ATGACGTGGCAGACCGTACAAATCCATTGCACY
19254 P T A CGCGCCGAGGTGTACAAATCCATTGCACAY
19254 T C A TGATTGTGCAATGGATTTGTACGTCCCCACTCAGCTCATTTATCCAGCCACCAT
19254 T T A TGATTGTGCAATGGATTTGTACATCCCCACTCAGCTCATTTATCCAGCCACCAT
GGAAGGATAAGAGACATAGCAAAGAGGAGATGGTGGCTGGATAAATGAGCTGAGTGGGGA[CT]GTACAAATCCATTGCACAATCAGTGGCCCATTTCAGCT
19254 IS [CT] ACAGATGCTAACAGACCCACAA
19324 I A ACAAAGTGAGACTGAGCTGCATCTCCATGGGTAGATAA
19324 P C A ATGACGTGGCAGACCAAAAGCAGAGGACTCTCY
19324 P T A CGCGCCGAGGTAAAAGCAGAGGACTCTCCY
19324 T C A AAGAGGAGAGTCCTCTGCTTTTGTATCTACCCATGGAGATGCAGCTCAGTCTCACTTTGTTC
19324 T T A AAGAGGAGAGTCCTCTGCTTTTATATCTACCCATGGAGATGCAGCTCAGTCTCACTTTGTTC

FIGURE 129E

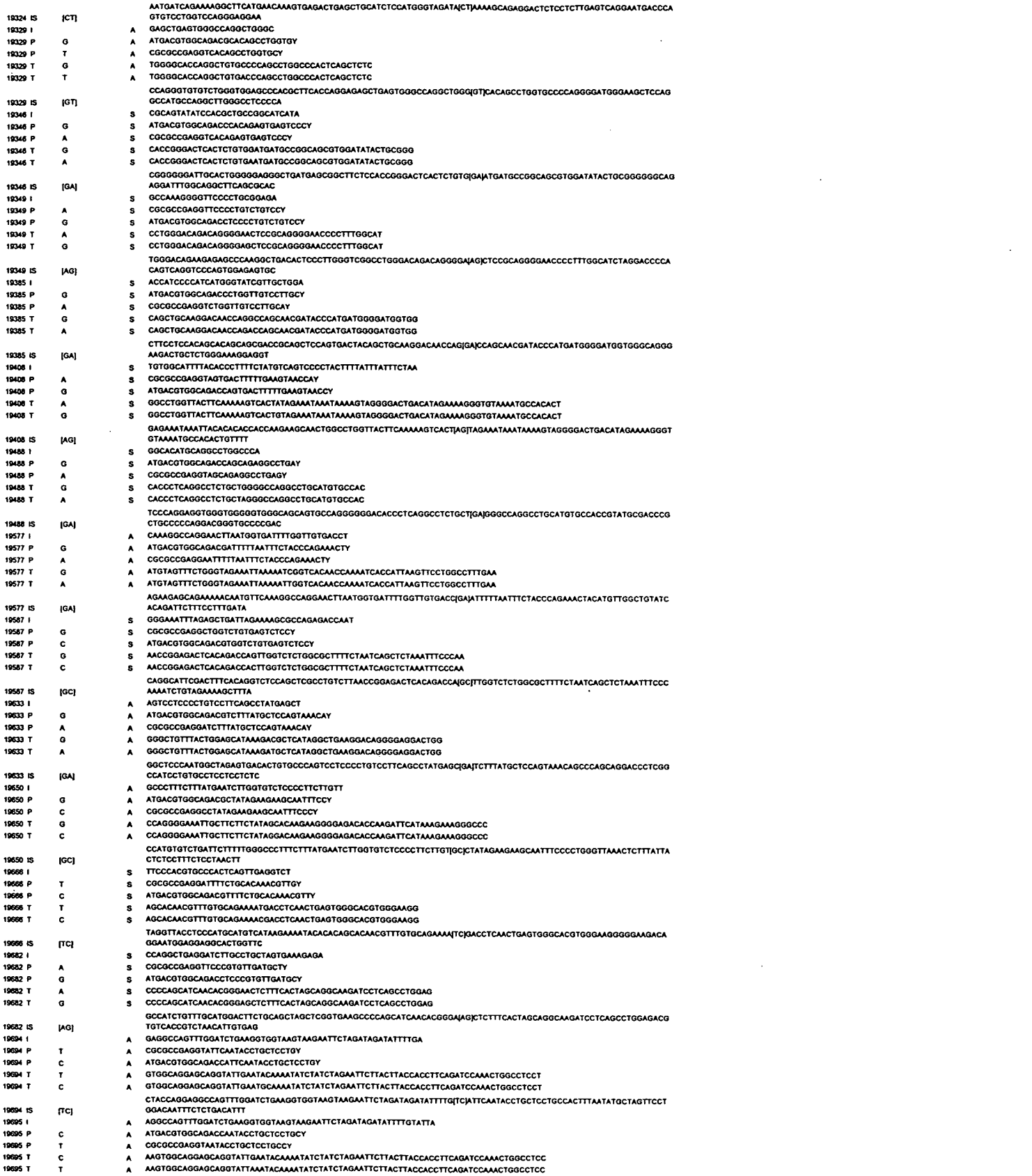

AATGATCAGAAAAGGCTTCATGAACAAAGTGAGACTGAGCTGCATCTCCATGGGTAGATA[CT]AAAAGCAGAGGACTCTCCTCTTGAGTCAGGAATGACCCA
19324 IS [CT] GTGTCCTGGTCCAGGGAGGAA
19329 I A GAGCTGAGTGGGCCAGGCTGGGC
19329 P G A ATGACGTGGCAGACGCACAGCCTGGTGY
19329 P T A CGCGCCGAGGTCACAGCCTGGTGCY
19329 T G A TGGGGCACCAGGCTGTGCCCCAGCCTGGCCCACTCAGCTCTC
19329 T T A TGGGGCACCAGGCTGTGACCCAGCCTGGCCCACTCAGCTCTC
CCAGGGTGTGTCTGGGTGGAGCCCACGCTTCACCAGGAGAGCTGAGTGGGCCAGGCTGGG[GT]CACAGCCTGGTGCCCCAGGGGATGGGAAGCTCCAG
19329 IS [GT] GCCATGCCAGGCTTGGGCCTCCCCA
19346 I S CGCAGTATATCCACGCTGCCGGCATCATA
19346 P G S ATGACGTGGCAGACCCACAGAGTGAGTCCCY
19346 P A S CGCGCCGAGGTCACAGAGTGAGTCCCY
19346 T G S CACCGGGACTCACTCTGTGGATGATGCCGGCAGCGTGGATATACTGCGGG
19346 T A S CACCGGGACTCACTCTGTGAATGATGCCGGCAGCGTGGATATACTGCGGG
CGGGGGGATTGCACTGGGGGAGGGCTGATGAGCGGCTTCTCCACCGGGACTCACTCTGTG[GA]ATGATGCCGGCAGCGTGGATATACTGCGGGGGGCAG
19346 IS [GA] AGGATTTGGCAGGCTTCAGCGCAC
19349 I S GCCAAAGGGGTTCCCCTGCGGAGA
19349 P A S CGCGCCGAGGTTCCCCTGTCTGTCCY
19349 P G S ATGACGTGGCAGACCTCCCCTGTCTGTCCY
19349 T A S CCTGGGACAGACAGGGGAACTCCGCAGGGGAACCCCTTTGGCAT
19349 T G S CCTGGGACAGACAGGGGAGCTCCGCAGGGGAACCCCTTTGGCAT
TGGGACAGAAGAGAGCCCAAGGCTGACACTCCCTTGGGTCGGCCTGGGACAGACAGGGGA[AG]CTCCGCAGGGGAACCCCTTTGGCATCTAGGACCCCA
19349 IS [AG] CAGTCAGGTCCCAGTGGAGAGTGC
19385 I S ACCATCCCCATCATGGGTATCGTTGCTGGA
19385 P G S ATGACGTGGCAGACCCTGGTTGTCCTTGCY
19385 P A S CGCGCCGAGGTCTGGTTGTCCTTGCAY
19385 T G S CAGCTGCAAGGACAACCAGGCCAGCAACGATACCCATGATGGGGATGGTGG
19385 T A S CAGCTGCAAGGACAACCAGACCAGCAACGATACCCATGATGGGGATGGTGG
CTTCCTCCACAGCACAGCAGCGACCGCAGCTCCAGTGACTACAGCTGCAAGGACAACCAG[GA]CCAGCAACGATACCCATGATGGGGATGGTGGGCAGGG
19385 IS [GA] AAGACTGCTCTGGGAAAGGAGGT
19408 I S TGTGGCATTTTACACCCTTTTCTATGTCAGTCCCCTACTTTTATTTATTTCTAA
19408 P A S CGCGCCGAGGTAGTGACTTTTTGAAGTAACCAY
19408 P G S ATGACGTGGCAGACCAGTGACTTTTTGAAGTAACCY
19408 T A S GGCCTGGTTACTTCAAAAAGTCACTATAGAAATAAATAAAAGTAGGGGACTGACATAGAAAAGGGTGTAAAATGCCACACT
19408 T G S GGCCTGGTTACTTCAAAAAGTCACTGTAGAAATAAATAAAAGTAGGGGACTGACATAGAAAAGGGTGTAAAATGCCACACT
GAGAAATAAATTACACACACCACCAAGAAGCAACTGGCCTGGTTACTTCAAAAAGTCACT[AG]TAGAAATAAATAAAAGTAGGGGACTGACATAGAAAAGGGT
19408 IS [AG] GTAAAATGCCACACTGTTTT
19488 I S GGCACATGCAGGCCTGGCCCA
19488 P G S ATGACGTGGCAGACCAGCAGAGGCCTGAY
19488 P A S CGCGCCGAGGTAGCAGAGGCCTGAGY
19488 T G S CACCCTCAGGCCTCTGCTGGGGCCAGGCCTGCATGTGCCAC
19488 T A S CACCCTCAGGCCTCTGCTAGGGCCAGGCCTGCATGTGCCAC
TCCCAGGAGGTGGGTGGGGGTGGGCAGCAGTGCCAGGGGGGACACCCTCAGGCCTCTGCT[GA]GGGCCAGGCCTGCATGTGCCACCGTATGCGACCCG
19488 IS [GA] CTGCCCCCAGGACGGGTGCCCCGAC
19577 I A CAAAGGCCAGGAACTTAATGGTGATTTTGGTTGTGACCT
19577 P G A ATGACGTGGCAGACGATTTTTAATTTCTACCCAGAAACTY
19577 P A A CGCGCCGAGGAATTTTTAATTTCTACCCAGAAACTY
19577 T G A ATGTAGTTTCTGGGTAGAAATTAAAAATCGGTCACAACCAAAATCACCATTAAGTTCCTGGCCTTTGAA
19577 T A A ATGTAGTTTCTGGGTAGAAATTAAAAATTGGTCACAACCAAAATCACCATTAAGTTCCTGGCCTTTGAA
AGAAGAGCAGAAAAACAATGTTCAAAGGCCAGGAACTTAATGGTGATTTTGGTTGTGACC[GA]ATTTTTAATTTCTACCCAGAAACTACATGTTGGCTGTATC
19577 IS [GA] ACAGATTCTTTCCTTTGATA
19587 I S GGGAAATTTAGAGCTGATTAGAAAAGCGCCAGAGACCAAT
19587 P G S CGCGCCGAGGCTGGTCTGTGAGTCTCCY
19587 P C S ATGACGTGGCAGACGTGGTCTGTGAGTCTCCY
19587 T G S AACCGGAGACTCACAGACCAGTTGGTCTCTGGCGCTTTTCTAATCAGCTCTAAATTTCCCAA
19587 T C S AACCGGAGACTCACAGACCACTTGGTCTCTGGCGCTTTTCTAATCAGCTCTAAATTTCCCAA
CAGGCATTCGACTTTCACAGGTCTCCAGCTCGCCTGTCTTAACCGGAGACTCACAGACCA[GC]TTGGTCTCTGGCGCTTTTCTAATCAGCTCTAAATTTCCC
19587 IS [GC] AAAATCTGTAGAAAAGCTTTA
19633 I A AGTCCTCCCCTGTCCTTCAGCCTATGAGCT
19633 P G A ATGACGTGGCAGACGTCTTTATGCTCCAGTAAACAY
19633 P A A CGCGCCGAGGATCTTTATGCTCCAGTAAACAY
19633 T G A GGGCTGTTTACTGGAGCATAAAGACGCTCATAGGCTGAAGGACAGGGGAGGACTGG
19633 T A A GGGCTGTTTACTGGAGCATAAAGATGCTCATAGGCTGAAGGACAGGGGAGGACTGG
GGCTCCCAATGGCTAGAGTGACACTGTGCCCAGTCCTCCCCTGTCCTTCAGCCTATGAGC[GA]TCTTTATGCTCCAGTAAACAGCCCAGCAGGACCCTCGG
19633 IS [GA] CCATCCTGTGCCTCCTCCTCTC
19650 I A GCCCTTTCTTTATGAATCTTGGTGTCTCCCCTTCTTGTT
19650 P G A ATGACGTGGCAGACGCTATAGAAGAAGCAATTTCCY
19650 P C A CGCGCCGAGGCCTATAGAAGAAGCAATTTCCCY
19650 T G A CCAGGGGAAATTGCTTCTTCTATAGCACAAGAAGGGGAGACACCAAGATTCATAAAGAAAGGGCCC
19650 T C A CCAGGGGAAATTGCTTCTTCTATAGGACAAGAAGGGGAGACACCAAGATTCATAAAGAAAGGGCCC
CCATGTGTCTGATTCTTTTTGGGCCCTTTCTTTATGAATCTTGGTGTCTCCCCTTCTTGT[GC]CTATAGAAGAAGCAATTTCCCCTGGGTTAAACTCTTTATTA
19650 IS [GC] CTCTCCTTTCTCCTAACTT
19666 I S TTCCCACGTGCCCACTCAGTTGAGGTCT
19666 P T S CGCGCCGAGGATTTTCTGCACAAACGTTGY
19666 P C S ATGACGTGGCAGACGTTTTCTGCACAAACGTTY
19666 T T S AGCACAACGTTTGTGCAGAAAATGACCTCAACTGAGTGGGCACGTGGGAAGG
19666 T C S AGCACAACGTTTGTGCAGAAAACGACCTCAACTGAGTGGGCACGTGGGAAGG
TAGGTTACCTCCCATGCATGTCATAAGAAAATACACACAGCACAACGTTTGTGCAGAAAA[TC]GACCTCAACTGAGTGGGCACGTGGGAAGGGGGAAGACA
19666 IS [TC] GGAATGGAGGAGGCACTGGTTC
19682 I S CCAGGCTGAGGATCTTGCCTGCTAGTGAAAGAGA
19682 P A S CGCGCCGAGGTTCCCGTGTTGATGCTY
19682 P G S ATGACGTGGCAGACCTCCCGTGTTGATGCY
19682 T A S CCCCAGCATCAACACGGGAACTCTTTCACTAGCAGGCAAGATCCTCAGCCTGGAG
19682 T G S CCCCAGCATCAACACGGGAGCTCTTTCACTAGCAGGCAAGATCCTCAGCCTGGAG
GCCATCTGTTTGCATGGACTTCTGCAGCTAGCTCGGTGAAGCCCCAGCATCAACACGGGA[AG]CTCTTTCACTAGCAGGCAAGATCCTCAGCCTGGAGACG
19682 IS [AG] TGTCACCGTCTAACATTGTGAG
19694 I A GAGGCCAGTTTGGATCTGAAGGTGGTAAGTAAGAATTCTAGATAGATATTTTGA
19694 P T A CGCGCCGAGGTATTCAATACCTGCTCCTGY
19694 P C A ATGACGTGGCAGACCATTCAATACCTGCTCCTGY
19694 T T A GTGGCAGGAGCAGGTATTGAATACAAAATATCTATCTAGAATTCTTACTTACCACCTTCAGATCCAAACTGGCCTCCT
19694 T C A GTGGCAGGAGCAGGTATTGAATGCAAAATATCTATCTAGAATTCTTACTTACCACCTTCAGATCCAAACTGGCCTCCT
CTACCAGGAGGCCAGTTTGGATCTGAAGGTGGTAAGTAAGAATTCTAGATAGATATTTTG[TC]ATTCAATACCTGCTCCTGCCACTTTAATATGCTAGTTCCT
19694 IS [TC] GGACAATTTCTCTGACATTT
19695 I A AGGCCAGTTTGGATCTGAAGGTGGTAAGTAAGAATTCTAGATAGATATTTTGTATTA
19695 P C A ATGACGTGGCAGACCAATACCTGCTCCTGCY
19695 P T A CGCGCCGAGGTAATACCTGCTCCTGCCY
19695 T C A AAGTGGCAGGAGCAGGTATTGAATACAAAATATCTATCTAGAATTCTTACTTACCACCTTCAGATCCAAACTGGCCTCC
19695 T T A AAGTGGCAGGAGCAGGTATTAAATACAAAATATCTATCTAGAATTCTTACTTACCACCTTCAGATCCAAACTGGCCTCC

FIGURE 129E

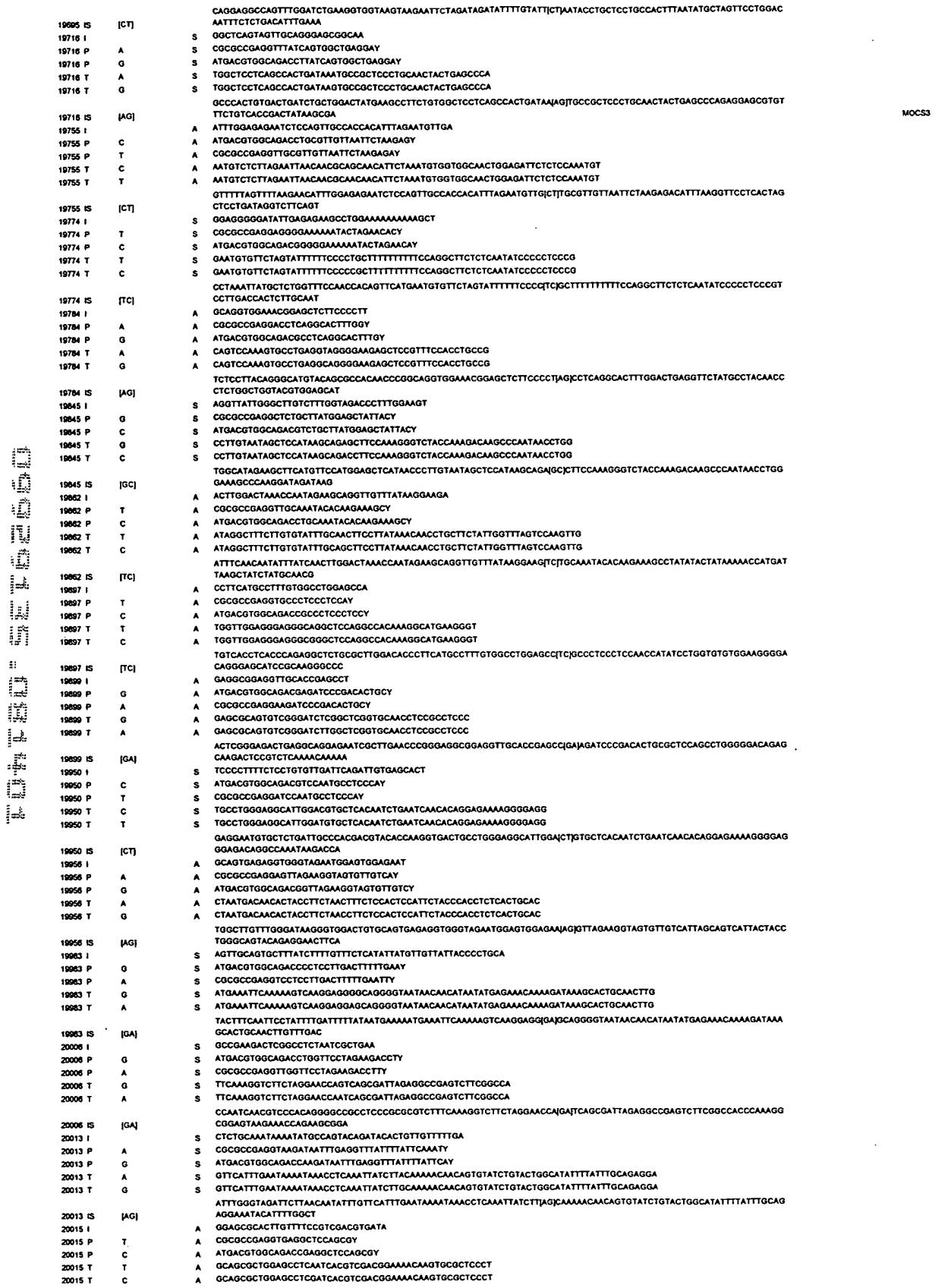
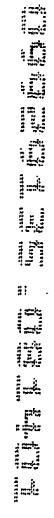

CAGGAGGCCAGTTTGGATCTGAAGGTGGTAAGTAAGAATTCTAGATAGATATTTTGTATT[CT]AATACCTGCTCCTGCCACTTTAATATGCTAGTTCCTGGAC
19695 IS [CT] AATTTCTCTGACATTTGAAA
19716 I S GGCTCAGTAGTTGCAGGGAGCGGCAA
19716 P A S CGCGCCGAGGTTTATCAGTGGCTGAGGAY
19716 P G S ATGACGTGGCAGACCTTATCAGTGGCTGAGGAY
19716 T A S TGGCTCCTCAGCCACTGATAAATGCCGCTCCCTGCAACTACTGAGCCCA
19716 T G S TGGCTCCTCAGCCACTGATAAGTGCCGCTCCCTGCAACTACTGAGCCCA
GCCCACTGTGACTGATCTGCTGGACTATGAAGCCTTCTGTGGCTCCTCAGCCACTGATAA[AG]TGCCGCTCCCTGCAACTACTGAGCCCAGAGGAGCGTGT
19716 IS [AG] TTCTGTCACCGACTATAAGCGA MOCS3
19755 I A ATTTGGAGAGAATCTCCAGTTGCCACCACATTTAGAATGTTGA
19755 P C A ATGACGTGGCAGACCTGCGTTGTTAATTCTAAGAGY
19755 P T A CGCGCCGAGGTTGCGTTGTTAATTCTAAGAGAY
19755 T C A AATGTCTCTTAGAATTAACAACGCAGCAACATTCTAAATGTGGTGGCAACTGGAGATTCTCTCCAAATGT
19755 T T A AATGTCTCTTAGAATTAACAACGCAACAACATTCTAAATGTGGTGGCAACTGGAGATTCTCTCCAAATGT
GTTTTTAGTTTTAAGAACATTTGGAGAGAATCTCCAGTTGCCACCACATTTAGAATGTTG[CT]TGCGTTGTTAATTCTAAGAGACATTTAAGGTTCCTCACTAG
19755 IS [CT] CTCCTGATAGGTCTTCAGT
19774 I S GGAGGGGGATATTGAGAGAAGCCTGGAAAAAAAAAAGCT
19774 P T S CGCGCCGAGGAGGGGAAAAAATACTAGAACACY
19774 P C S ATGACGTGGCAGACGGGGGAAAAAATACTAGAACAY
19774 T T S GAATGTGTTCTAGTATTTTTTCCCCTGCTTTTTTTTTTCCAGGCTTCTCTCAATATCCCCCTCCCG
19774 T C S GAATGTGTTCTAGTATTTTTTCCCCCGCTTTTTTTTTTCCAGGCTTCTCTCAATATCCCCCTCCCG
CCTAAATTATGCTCTGGTTTCCAACCACAGTTCATGAATGTGTTCTAGTATTTTTTCCCC[TC]GCTTTTTTTTTTCCAGGCTTCTCTCAATATCCCCCTCCCGT
19774 IS [TC] CCTTGACCACTCTTGCAAT
19784 I A GCAGGTGGAAACGGAGCTCTTCCCCTT
19784 P A A CGCGCCGAGGACCTCAGGCACTTTGGY
19784 P G A ATGACGTGGCAGACGCCTCAGGCACTTTGY
19784 T A A CAGTCCAAAGTGCCTGAGGTAGGGGAAGAGCTCCGTTTCCACCTGCCG
19784 T G A CAGTCCAAAGTGCCTGAGGCAGGGGAAGAGCTCCGTTTCCACCTGCCG
TCTCCTTACAGGGCATGTACAGCGCCACAACCCGGCAGGTGGAAACGGAGCTCTTCCCC[AG]CCTCAGGCACTTTGGACTGAGGTTCTATGCCTACAACC
19784 IS [AG] CTCTGGCTGGTACGTGGAGCAT
19845 I S AGGTTATTGGGCTTGTCTTTGGTAGACCCTTTGGAAGT
19845 P G S CGCGCCGAGGCTCTGCTTATGGAGCTATTACY
19845 P C S ATGACGTGGCAGACGTCTGCTTATGGAGCTATTACY
19845 T G S CCTTGTAATAGCTCCATAAGCAGAGCTTCCAAAGGGTCTACCAAAGACAAGCCCAATAACCTGG
19845 T C S CCTTGTAATAGCTCCATAAGCAGACCTTCCAAAGGGTCTACCAAAGACAAGCCCAATAACCTGG
TGGCATAGAAGCTTCATGTTCCATGGAGCTCATAACCCTTGTAATAGCTCCATAAGCAGA[GC]CTTCCAAAGGGTCTACCAAAGACAAGCCCAATAACCTGG
19845 IS [GC] GAAAGCCCAAGGATAGATAAG
19862 I A ACTTGGACTAAACCAATAGAAGCAGGTTGTTTATAAGGAAGA
19862 P T A CGCGCCGAGGTTGCAAATACACAAGAAAGCY
19862 P C A ATGACGTGGCAGACCTGCAAATACACAAGAAAGCY
19862 T T A ATAGGCTTTCTTGTGTATTTGCAACTTCCTTATAAACAACCTGCTTCTATTGGTTTAGTCCAAGTTG
19862 T C A ATAGGCTTTCTTGTGTATTTGCAGCTTCCTTATAAACAACCTGCTTCTATTGGTTTAGTCCAAGTTG
ATTTCAACAATATTTATCAACTTGGACTAAACCAATAGAAGCAGGTTGTTTATAAGGAAG[TC]TGCAAATACACAAGAAAGCCTATATACTATAAAAACCATGAT
19862 IS [TC] TAAGCTATCTATGCAACG
19897 I A CCTTCATGCCTTTGTGGCCTGGAGCCA
19897 P T A CGCGCCGAGGTGCCCTCCCTCCAY
19897 P C A ATGACGTGGCAGACCGCCCTCCCTCCY
19897 T T A TGGTTGGAGGGAGGGCAGGCTCCAGGCCACAAAGGCATGAAGGGT
19897 T C A TGGTTGGAGGGAGGGCGGGCTCCAGGCCACAAAGGCATGAAGGGT
TGTCACCTCACCCAGAGGCTCTGCGCTTGGACACCCTTCATGCCTTTGTGGCCTGGAGCC[TC]GCCCTCCCTCCAACCATATCCTGGTGTGTGGAAGGGGA
19897 IS [TC] CAGGGAGCATCCGCAAGGGCCC
19899 I A GAGGCGGAGGTTGCACCGAGCCT
19899 P G A ATGACGTGGCAGACGAGATCCCGACACTGCY
19899 P A A CGCGCCGAGGAAGATCCCGACACTGCY
19899 T G A GAGCGCAGTGTCGGGATCTCGGCTCGGTGCAACCTCCGCCTCCC
19899 T A A GAGCGCAGTGTCGGGATCTTGGCTCGGTGCAACCTCCGCCTCCC
ACTCGGGAGACTGAGGCAGGAGAATCGCTTGAACCCGGGAGGCGGAGGTTGCACCGAGCC[GA]AGATCCCGACACTGCGCTCCAGCCTGGGGGACAGAG
19899 IS [GA] CAAGACTCCGTCTCAAAACAAAAA
19950 I S TCCCCTTTTCTCCTGTGTTGATTCAGATTGTGAGCACT
19950 P C S ATGACGTGGCAGACGTCCAATGCCTCCCAY
19950 P T S CGCGCCGAGGATCCAATGCCTCCCAY
19950 T C S TGCCTGGGAGGCATTGGACGTGCTCACAATCTGAATCAACACAGGAGAAAAGGGGAGG
19950 T T S TGCCTGGGAGGCATTGGATGTGCTCACAATCTGAATCAACACAGGAGAAAAGGGGAGG
GAGGAATGTGCTCTGATTGCCCACGACGTACACCAAGGTGACTGCCTGGGAGGCATTGGA[CT]GTGCTCACAATCTGAATCAACACAGGAGAAAAGGGGAG
19950 IS [CT] GGAGACAGGCCAAATAAGACCA
19956 I A GCAGTGAGAGGTGGGTAGAATGGAGTGGAGAAT
19956 P A A CGCGCCGAGGAGTTAGAAGGTAGTGTTGTCAY
19956 P G A ATGACGTGGCAGACGGTTAGAAGGTAGTGTTGTCY
19956 T A A CTAATGACAACACTACCTTCTAACTTTCTCCACTCCATTCTACCCACCTCTCACTGCAC
19956 T G A CTAATGACAACACTACCTTCTAACCTTCTCCACTCCATTCTACCCACCTCTCACTGCAC
TGGCTTGTTTGGGATAAGGGTGGACTGTGCAGTGAGAGGTGGGTAGAATGGAGTGGAGAA[AG]GTTAGAAGGTAGTGTTGTCATTAGCAGTCATTACTACC
19956 IS [AG] TGGGCAGTACAGAGGAACTTCA
19983 I S AGTTGCAGTGCTTTATCTTTTGTTTCTCATATTATGTTGTTATTACCCCTGCA
19983 P G S ATGACGTGGCAGACCCCTCCTTGACTTTTTGAAY
19983 P A S CGCGCCGAGGTCCTCCTTGACTTTTTGAATTY
19983 T G S ATGAAATTCAAAAAGTCAAGGAGGGGCAGGGGTAATAACAACATAATATGAGAAACAAAAGATAAAGCACTGCAACTTG
19983 T A S ATGAAATTCAAAAAGTCAAGGAGGAGCAGGGGTAATAACAACATAATATGAGAAACAAAAGATAAAGCACTGCAACTTG
TACTTTCAATTCCTATTTTGATTTTTATAATGAAAAATGAAATTCAAAAAGTCAAGGAGG[GA]GCAGGGGTAATAACAACATAATATGAGAAACAAAAGATAAA
19983 IS [GA] GCACTGCAACTTGTTTGAC
20006 I S GCCGAAGACTCGGCCTCTAATCGCTGAA
20006 P G S ATGACGTGGCAGACCTGGTTCCTAGAAGACCTY
20006 P A S CGCGCCGAGGTTGGTTCCTAGAAGACCTTY
20006 T G S TTCAAAGGTCTTCTAGGAACCAGTCAGCGATTAGAGGCCGAGTCTTCGGCCA
20006 T A S TTCAAAGGTCTTCTAGGAACCAATCAGCGATTAGAGGCCGAGTCTTCGGCCA
CCAATCAACGTCCCACAGGGGCCGCCTCCCGCGCGTCTTTCAAAGGTCTTCTAGGAACCA[GA]TCAGCGATTAGAGGCCGAGTCTTCGGCCACCCAAAGG
20006 IS [GA] CGGAGTAAGAAACCAGAAGCGGA
20013 I S CTCTGCAAATAAAATATGCCAGTACAGATACACTGTTGTTTTTGA
20013 P A S CGCGCCGAGGTAAGATAATTTGAGGTTTATTTTATTCAAATY
20013 P G S ATGACGTGGCAGACCAAGATAATTTGAGGTTTATTTTATTCAY
20013 T A S GTTCATTTGAATAAAATAAACCTCAAATTATCTTACAAAAACAACAGTGTATCTGTACTGGCATATTTTATTTGCAGAGGA
20013 T G S GTTCATTTGAATAAAATAAACCTCAAATTATCTTGCAAAAACAACAGTGTATCTGTACTGGCATATTTTATTTGCAGAGGA
ATTTGGGTAGATTCTTAACAATATTTGTTCATTTGAATAAAATAAACCTCAAATTATCTT[AG]CAAAAACAACAGTGTATCTGTACTGGCATATTTTATTTGCAG
20013 IS [AG] AGGAAATACATTTTGGCT
20015 I A GGAGCGCACTTGTTTTCCGTCGACGTGATA
20015 P T A CGCGCCGAGGTGAGGCTCCAGCGY
20015 P C A ATGACGTGGCAGACCGAGGCTCCAGCGY
20015 T T A GCAGCGCTGGAGCCTCAATCACGTCGACGGAAAACAAGTGCGCTCCCT
20015 T C A GCAGCGCTGGAGCCTCGATCACGTCGACGGAAAACAAGTGCGCTCCCT

FIGURE 129E



				CGGGACTAGCGCCTCCTGGTGACTGCAGTAGGGAGCGCACTTGTTTTCCGTCGACGTGAT[TC]GAGGCTCCAGCGCTGCCTCTCCTGGTCGTGGTTGACT
20015	IS	[TC]		GGGCCCGGAAGTGGCTCCTGGAG
20021	I		A	TCTCCAAACCTGCATATAGTCTCCATGAGATTACTTATTATCTAGTAAA
20021	P	T	A	CGCGCCGAGGTTGAAATTTCTCCAAACACTTTATY
20021	P	C	A	ATGACGTGGCAGACCTGAAATTTCTCCAAACACTTTY
20021	T	T	A	TGCTATAAAGTGTTTGGAGAAATTTCAATTACTAGATAATAAGTAATCTCATGGAGACTATATGCAGGTTTGGAGAGA
20021	T	C	A	TGCTATAAAGTGTTTGGAGAAATTTCAGTTACTAGATAATAAGTAATCTCATGGAGACTATATGCAGGTTTGGAGAGA
				GCTCTTAACTTCTCTCCAAACCTGCATATAGTCTCCATGAGATTACTTATTATCTAGTAA[TC]TGAAATTTCTCCAAACACTTTATAGCAGTCTTGTGGTTCCCT
20021	IS	[TC]		GGGGAGGGGAGTTGTTAG
20099	I		S	TGTTGGTTGGTTTCAAATGTTTAAAATCTTCTTGAAGTTTGACTTGATAGCAATTTCAT
20099	P	G	S	CGCGCCGAGGCCCTGGTCTGACCTCY
20099	P	C	S	ATGACGTGGCAGACGCCTGGTCTGACCTCY
20099	T	G	S	ATTGGAGGTCAGACCAGGGTGAAATTGCTATCAAGTCAAACTTCAAGAAGATTTTAAACATTTGAAACCAACCAACAAA
20099	T	C	S	ATTGGAGGTCAGACCAGGCTGAAATTGCTATCAAGTCAAACTTCAAGAAGATTTTAAACATTTGAAACCAACCAACAAA
				GTAAAAATGCCAGGCGGTGCCACACGATGTCACCCAACAGGTATTGGAGGTCAGACCAGG[GC]TGAAATTGCTATCAAGTCAAACTTCAAGAAGATTTTAAA
20099	IS	[GC]		CATTTGAAACCAACCAACAAA
20140	I		A	GCTGAATTATCTACCCAGTGAAATCTTCTACCCTCTCCACAA
20140	P	T	A	CGCGCCGAGGTCCCATGCCCTACCY
20140	P	C	A	ATGACGTGGCAGACCCCCATGCCCTACCY
20140	T	T	A	ATTGGGTAGGGCATGGGATGTGGAGAGGGTAGAAGATTTCACTGGGTAGATAATTCAGCTT
20140	T	C	A	ATTGGGTAGGGCATGGGGTGTGGAGAGGGTAGAAGATTTCACTGGGTAGATAATTCAGCTT
				GGAAATTCTCCCAACAGAAGCTGAATTATCTACCCAGTGAAATCTTCTACCCTCTCCACA[TC]CCCATGCCCTACCCAATGTGGACAGCCATCCCTTGACGG
20140	IS	[TC]		TTATCCTTGGTCTTAGGAAGC
20141	I		S	TGGTCACAAAGTTCCCTTTGATCACGGCCCA
20141	P	G	S	ATGACGTGGCAGACCGTTCTGTCTCTGCAGY
20141	P	A	S	CGCGCCGAGGTGTTCTGTCTCTGCAGCY
20141	T	G	S	TTTGGCTGCAGAGACAGAACGGGGCCGTGATCAAAGGGAACTTTGTGACCAGT
20141	T	A	S	TTTGGCTGCAGAGACAGAACAGGGCCGTGATCAAAGGGAACTTTGTGACCAGT
				AAATTTTGAGACCAGGACAAGACTTCCTCTGCAGTGGGGTTTTGGCTGCAGAGACAGAAC[GA]GGGCCGTGATCAAAGGGAACTTTGTGACCAGTGAATGC
20141	IS	[GA]		TAGACCAGGTAAGGAGAGGAGC
20156	I		A	CCTTGTCTCCACCTCCTAAGCACCCACTGC
20156	P	G	A	ATGACGTGGCAGACGTGAGCCTCCTTGCCY
20156	P	T	A	CGCGCCGAGGTTGAGCCTCCTTGCCY
20156	T	G	A	GGTGGGCAAGGAGGCTCACCAGTGGGTGCTTAGGAGGTGGAGACAAGGCT
20156	T	T	A	GGTGGGCAAGGAGGCTCAACAGTGGGTGCTTAGGAGGTGGAGACAAGGCT
				TGGTTACTGGTGGGTGCCAGCCTGAACCCAGCCTTGTCTCCACCTCCTAAGCACCCACTG[GT]TGAGCCTCCTTGCCCACCATCACCCCCAGCTCCACAGA
20156	IS	[GT]		GGCCCACGCGGCAGGCTGGTGT
20180	I		A	GCCACTGCCTGGTTATGCCCTGTTATCCCA
20180	P	T	A	CGCGCCGAGGTGTAGCACCTGGAGTTTY
20180	P	C	A	ATGACGTGGCAGACCGTAGCACCTGGAGTY
20180	T	T	A	GACCAAACTCCAGGTGCTACAGGGATAACAGGGCATAACCAGGCAGTGGCAA
20180	T	C	A	GACCAAACTCCAGGTGCTACGGGGATAACAGGGCATAACCAGGCAGTGGCAA
				TTCTCTTATCACAGTGTGAGTCACCTGTGTTGCCACTGCCTGGTTATGCCCTGTTATCCC[TC]GTAGCACCTGGAGTTTGGTCTCCAGCAGTGCTGGGTCCC
20180	IS	[TC]		TCATGCACTCTTGGTGCCCAG
20187	I		A	CACTCAACCGTCACAGCAGTCATCTTTCAGATTGTCATT
20187	P	A	A	CGCGCCGAGGAGCTAATAGCATGGTGATGY
20187	P	G	A	ATGACGTGGCAGACGGCTAATAGCATGGTGATGY
20187	T	A	A	TATGCATCACCATGCTATTAGCTATGACAATCTGAAAGATGACTGCTGTGACGGTTGAGTGAT
20187	T	G	A	TATGCATCACCATGCTATTAGCCATGACAATCTGAAAGATGACTGCTGTGACGGTTGAGTGAT
				AAAAGATGACTTAGCCATTCATCACTCAACCGTCACAGCAGTCATCTTTCAGATTGTCAT[AG]GCTAATAGCATGGTGATGCATACATGCAAATATCAATTTTA
20187	IS	[AG]		TGCAGTGCTATTGAACTTC
20191	I		S	CTGGGAAATGCCTGCTGCCCCCAT
20191	P	C	S	ATGACGTGGCAGACGTGACTCTTGGTTTCGTCY
20191	P	T	S	CGCGCCGAGGATGACTCTTGGTTTCGTCY
20191	T	C	S	GGGAGACGAAACCAAGAGTCACTGGGGGCAGCAGGCATTTCCCAGGG
20191	T	T	S	GGGAGACGAAACCAAGAGTCATTGGGGGCAGCAGGCATTTCCCAGGG
				CTGAGACCCACCCTTCCCCTCCACCCTGCTTCTGTATGTGGGAGACGAAACCAAGAGTCA[CT]TGGGGGCAGCAGGCATTTCCCAGGGTTAAGGCTGATG
20191	IS	[CT]		GAAGGTCCCTATCCCAGATGGGA
20201	I		A	GGTTTGTAGGGTACAGAATACTCTTATTCTGTGTGGTTCCCAAT
20201	P	G	A	ATGACGTGGCAGACGGAGAGAACTAGAACCAATGY
20201	P	A	A	CGCGCCGAGGAGAGAGAACTAGAACCAATGAY
20201	T	G	A	TCCATCATTGGTTCTAGTTCTCTCCTTGGGAACCACACAGAATAAGAGTATTCTGTACCCTACAAACCAT
20201	T	A	A	TCCATCATTGGTTCTAGTTCTCTCTTTGGGAACCACACAGAATAAGAGTATTCTGTACCCTACAAACCAT
				TTGGAGGAGAGGGCAATGGTTTGTAGGGTACAGAATACTCTTATTCTGTGTGGTTCCCAA[GA]GAGAGAACTAGAACCAATGATGGAGTTTTAGGATGATTT
20201	IS	[GA]		CTCTCACAATGCAGGATATTT
20219	I		A	GAGTTCCTCTCCCCTTCGGCCCCAT
20219	P	G	A	ATGACGTGGCAGACGTGTGTCTATGCCTACCY
20219	P	A	A	CGCGCCGAGGATGTGTCTATGCCTACCCY
20219	T	G	A	ACAGGGGTAGGCATAGACACACTGGGGCCGAAGGGGAGAGGAACTCTC
20219	T	A	A	ACAGGGGTAGGCATAGACACATTGGGGCCGAAGGGGAGAGGAACTCTC
				CCTCCTTACCCTGAGAGCAATCTGTGTGTCTAGGGAGAGTTCCTCTCCCCTTCGGCCCCA[GA]TGTGTCTATGCCTACCCCTGTGAGCGTCACTCTTGTTAT
20219	IS	[GA]		CTGCTTCTCAGTCCTGTATGA
20233	I		A	AGACCTGTGGGAAGGGTCTAGCTGATAGAT
20233	P	C	A	CGCGCCGAGGCTGACAGGTGGCTTCCY
20233	P	G	A	ATGACGTGGCAGACGTGACAGGTGGCTTCY
20233	T	C	A	TCTCGGAAGCCACCTGTCAGTCTATCAGCTAGACCCTTCCCACAGGTCTTA
20233	T	G	A	TCTCGGAAGCCACCTGTCACTCTATCAGCTAGACCCTTCCCACAGGTCTTA
				CAGTCTCAGCACCTTTGGTTCCCTTTCTATAAGACCTGTGGGAAGGGTCTAGCTGATAGA[CG]TGACAGGTGGCTTCCGAGAAGCCGTACGAGTGAATTCT
20233	IS	[CG]		GAACTCACTCACCCCATTCCAG
20244	I		A	CTGTCCACGAGAATTTTCATAGTGTTCTATAGATTTTTTTAAAAATAGTGAGTTTAAAT
20244	P	G	A	ATGACGTGGCAGACGTATGGATCAGCAGAGCY
20244	P	C	A	CGCGCCGAGGCTATGGATCAGCAGAGCTY
20244	T	G	A	TTTCAGCTCTGCTGATCCATACTTTAAACTCACTATTTTTAAAAAAATCTATAGAACACTATGAAAATTCTCGTGGACAGAT
20244	T	C	A	TTTCAGCTCTGCTGATCCATAGTTTAAACTCACTATTTTTAAAAAAATCTATAGAACACTATGAAAATTCTCGTGGACAGAT
				ATCTGTCCACGAGAATTTTCATAGTGTTCTATAGATTTTTTTAAAAATAGTGAGTTTAAA[GC]TATGGATCAGCAGAGCTGAAAGGGACCTTGGAGATCACTG
20244	IS	[GC]		AGTCCCACTGTCTCACTGTA
20254	I		A	GGTCTCCCCTGCTGTTAGTAACAGTCACCAAAATGTTA
20254	P	T	A	CGCGCCGAGGTTAAGCAACTACTTTCCTAGAGY
20254	P	C	A	ATGACGTGGCAGACCTAAGCAACTACTTTCCTAGAGY
20254	T	T	A	GATACTCTAGGAAAGTAGTTGCTTAAAACATTTTGGTGACTGTTACTAACAGCAGGGGAGACCAG
20254	T	C	A	GATACTCTAGGAAAGTAGTTGCTTAGAACATTTTGGTGACTGTTACTAACAGCAGGGGAGACCAG
				GGTTCAAGTAAAAATTCTCATCTGGTCTCCCCTGCTGTTAGTAACAGTCACCAAAATGTT[TC]TAAGCAACTACTTTCCTAGAGTATCATTTGCCAACCAAAAG
20254	IS	[TC]		GCTTTCAGAGGTGTGAATG
20255	I		A	GCATCAAGTCCAGACTAAGCAAAAGTGGGCACATACAAAA
20255	P	T	A	CGCGCCGAGGTTCTGCTTAGAGCATTTGAAY
20255	P	C	A	ATGACGTGGCAGACCTCTGCTTAGAGCATTTGAAY
20255	T	T	A	GAGCTTCAAATGCTCTAAGCAGAATTTGTATGTGCCCACTTTTGCTTAGTCTGGACTTGATGCTG
20255	T	C	A	GAGCTTCAAATGCTCTAAGCAGAGTTTGTATGTGCCCACTTTTGCTTAGTCTGGACTTGATGCTG

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FIGURE 129E

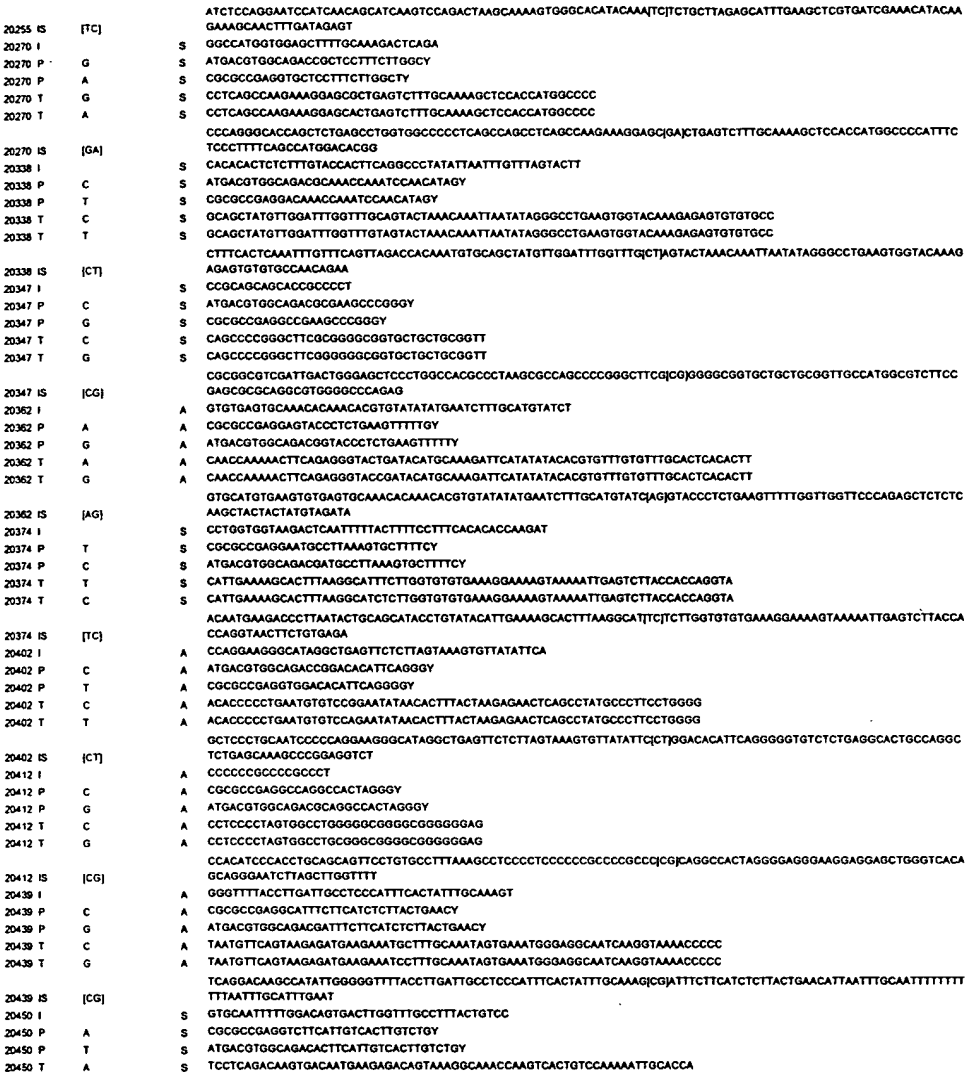
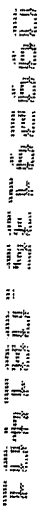

ATCTCCAGGAATCCATCAACAGCATCAAGTCCAGACTAAGCAAAAGTGGGCACATACAAA[TC]TCTGCTTAGAGCATTTGAAGCTCGTGATCGAAACATACAA
20255 IS [TC] GAAAGCAACTTTGATAGAGT
20270 I S GGCCATGGTGGAGCTTTTGCAAAGACTCAGA
20270 P G S ATGACGTGGCAGACCGCTCCTTTCTTGGCY
20270 P A S CGCGCCGAGGTGCTCCTTTCTTGGCTY
20270 T G S CCTCAGCCAAGAAAGGAGCGCTGAGTCTTTGCAAAAGCTCCACCATGGCCCC
20270 T A S CCTCAGCCAAGAAAGGAGCACTGAGTCTTTGCAAAAGCTCCACCATGGCCCC
CCCAGGGCACCAGCTCTGAGCCTGGTGGCCCCCTCAGCCAGCCTCAGCCAAGAAAGGAGC[GA]CTGAGTCTTTGCAAAAGCTCCACCATGGCCCCATTTC
20270 IS [GA] TCCCTTTTCAGCCATGGACACGG
20338 I S CACACACTCTCTTTGTACCACTTCAGGCCCTATATTAATTTGTTTAGTACTT
20338 P C S ATGACGTGGCAGACGCAAACCAAATCCAACATAGY
20338 P T S CGCGCCGAGGACAAACCAAATCCAACATAGY
20338 T C S GCAGCTATGTTGGATTTGGTTTGCAGTACTAAACAAATTAATATAGGGCCTGAAGTGGTACAAAGAGAGTGTGTGCC
20338 T T S GCAGCTATGTTGGATTTGGTTTGTAGTACTAAACAAATTAATATAGGGCCTGAAGTGGTACAAAGAGAGTGTGTGCC
CTTTCACTCAAATTTGTTTCAGTTAGACCACAAATGTGCAGCTATGTTGGATTTGGTTTG[CT]AGTACTAAACAAATTAATATAGGGCCTGAAGTGGTACAAAG
20338 IS [CT] AGAGTGTGTGCCAACAGAA
20347 I S CCGCAGCAGCACCGCCCCT
20347 P C S ATGACGTGGCAGACGCGAAGCCCGGGY
20347 P G S CGCGCCGAGGCCGAAGCCCGGGY
20347 T C S CAGCCCCGGGCTTCGCGGGGCGGTGCTGCTGCGGTT
20347 T G S CAGCCCCGGGCTTCGGGGGGCGGTGCTGCTGCGGTT
CGCGGCGTCGATTGACTGGGAGCTCCCTGGCCACGCCCTAAGCGCCAGCCCCGGGCTTCG[CG]GGGGCGGTGCTGCTGCGGTTGCCATGGCGTCTTCC
20347 IS [CG] GAGCGCGCAGGCGTGGGGCCCAGAG
20362 I A GTGTGAGTGCAAACACAAACACGTGTATATATGAATCTTTGCATGTATCT
20362 P A A CGCGCCGAGGAGTACCCTCTGAAGTTTTTGY
20362 P G A ATGACGTGGCAGACGGTACCCTCTGAAGTTTTTY
20362 T A A CAACCAAAAACTTCAGAGGGTACTGATACATGCAAAGATTCATATATACACGTGTTTGTGTTTGCACTCACACTT
20362 T G A CAACCAAAAACTTCAGAGGGTACCGATACATGCAAAGATTCATATATACACGTGTTTGTGTTTGCACTCACACTT
GTGCATGTGAAGTGTGAGTGCAAACACAAACACGTGTATATATGAATCTTTGCATGTATC[AG]GTACCCTCTGAAGTTTTTGGTTGGTTCCCAGAGCTCTCTC
20362 IS [AG] AAGCTACTACTATGTAGATA
20374 I S CCTGGTGGTAAGACTCAATTTTTACTTTTCCTTTCACACACCAAGAT
20374 P T S CGCGCCGAGGAATGCCTTAAAGTGCTTTTCY
20374 P C S ATGACGTGGCAGACGATGCCTTAAAGTGCTTTTCY
20374 T T S CATTGAAAAGCACTTTAAGGCATTTCTTGGTGTGTGAAAGGAAAAGTAAAAATTGAGTCTTACCACCAGGTA
20374 T C S CATTGAAAAGCACTTTAAGGCATCTCTTGGTGTGTGAAAGGAAAAGTAAAAATTGAGTCTTACCACCAGGTA
ACAATGAAGACCCTTAATACTGCAGCATACCTGTATACATTGAAAAGCACTTTAAGGCAT[TC]TCTTGGTGTGTGAAAGGAAAAGTAAAAATTGAGTCTTACCA
20374 IS [TC] CCAGGTAACTTCTGTGAGA
20402 I A CCAGGAAGGGCATAGGCTGAGTTCTCTTAGTAAAGTGTTATATTCA
20402 P C A ATGACGTGGCAGACCGGACACATTCAGGGY
20402 P T A CGCGCCGAGGTGGACACATTCAGGGGY
20402 T C A ACACCCCCTGAATGTGTCCGGAATATAACACTTTACTAAGAGAACTCAGCCTATGCCCTTCCTGGGG
20402 T T A ACACCCCCTGAATGTGTCCAGAATATAACACTTTACTAAGAGAACTCAGCCTATGCCCTTCCTGGGG
GCTCCCTGCAATCCCCCAGGAAGGGCATAGGCTGAGTTCTCTTAGTAAAGTGTTATATTC[CT]GGACACATTCAGGGGGTGTCTCTGAGGCACTGCCAGGC
20402 IS [CT] TCTGAGCAAAGCCCGGAGGTCT
20412 I A CCCCCCGCCCCGCCCT
20412 P C A CGCGCCGAGGCCAGGCCACTAGGGY
20412 P G A ATGACGTGGCAGACGCAGGCCACTAGGGY
20412 T C A CCTCCCCTAGTGGCCTGGGGGCGGGGCGGGGGGAG
20412 T G A CCTCCCCTAGTGGCCTGCGGGCGGGGCGGGGGGAG
CCACATCCCACCTGCAGCAGTTCCTGTGCCTTTAAAGCCTCCCCTCCCCCCGCCCCGCCC[CG]CAGGCCACTAGGGGAGGGAAGGAGGAGCTGGGTCACA
20412 IS [CG] GCAGGGAATCTTAGCTTGGTTTT
20439 I A GGGTTTTACCTTGATTGCCTCCCATTTCACTATTTGCAAAGT
20439 P C A CGCGCCGAGGCATTTCTTCATCTCTTACTGAACY
20439 P G A ATGACGTGGCAGACGATTTCTTCATCTCTTACTGAACY
20439 T C A TAATGTTCAGTAAGAGATGAAGAAATGCTTTGCAAATAGTGAAATGGGAGGCAATCAAGGTAAAACCCCC
20439 T G A TAATGTTCAGTAAGAGATGAAGAAATCCTTTGCAAATAGTGAAATGGGAGGCAATCAAGGTAAAACCCCC
TCAGGACAAGCCATATTGGGGGTTTTACCTTGATTGCCTCCCATTTCACTATTTGCAAAG[CG]ATTTCTTCATCTCTTACTGAACATTAATTTGCAATTTTTTTT
20439 IS [CG] TTTAATTTGCATTTGAAT
20450 I S GTGCAATTTTTGGACAGTGACTTGGTTTGCCTTTACTGTCC
20450 P A S CGCGCCGAGGTCTTCATTGTCACTTGTCTGY
20450 P T S ATGACGTGGCAGACACTTCATTGTCACTTGTCTGY
20450 T A S TCCTCAGACAAGTGACAATGAAGAGACAGTAAAGGCAAACCAAGTCACTGTCCAAAAATTGCACCA
20450 T T S TCCTCAGACAAGTGACAATGAAGTGACAGTAAAGGCAAACCAAGTCACTGTCCAAAAATTGCACCA
TGCTCTGTCCTGTTTTCTGTCTCGGGACACCCTGTCATCCTCAGACAAGTGACAATGAAG[AT]GACAGTAAAGGCAAACCAAGTCACTGTCCAAAAATTGCA
20450 IS [AT] CCACCTACCTTGGAGAGCCTC
20453 I S CCAGGGACCAGGCCTGCAGCAGT
20453 P T S CGCGCCGAGGAAAACAATCAAAGTTCCTTGAAY
20453 P C S ATGACGTGGCAGACGAAACAATCAAAGTTCCTTGAAY
20453 T T S TTCCTTCAAGGAACTTTGATTGTTTTCTGCTGCAGGCCTGGTCCCTGGCG
20453 T C S TTCCTTCAAGGAACTTTGATTGTTTCCTGCTGCAGGCCTGGTCCCTGGCG
GTAATTCCCACAAGGAAGCAGCTCCTGCTCATTCATTCCTTCAAGGAACTTTGATTGTTT[TC]CTGCTGCAGGCCTGGTCCCTGGCGCTCCAGGAACACAGA
20453 IS [TC] CCCAGTCTCAAAAGAAGGGCT
20459 I A CACTTCACTCGTAAGTTGATATCCTAAAGGGAAATCTGCACATTAATTAAGCA
20459 P C A ATGACGTGGCAGACCGTCACAGGACACAAGY
20459 P T A CGCGCCGAGGTGTCACAGGACACAAGGY
20459 T C A GGCCCCTTGTGTCCTGTGACGGCTAATTAATGTGCAGATTTCCCTTTAGGATATCAACTTACGAGTGAAGTGGC
20459 T T A GGCCCCTTGTGTCCTGTGACAGCTTAATTAATGTGCAGATTTCCCTTTAGGATATCAACTTACGAGTGAAGTGGC
CGTTGGGCCACTTCACTCGTAAGTTGATATCCTAAAGGGAAATCTGCACATTAATTAAGC[CT]GTCACAGGACACAAGGGGCCCAGGCAAGTCACTGAGCTA
20459 IS [CT] AGGGAAGATAAGCAGAAACCA
20517 I S GTGGTAGGGCTCCATGCAAATTTCTCCCTTTCTGT
20517 P C S ATGACGTGGCAGACGAGGTTGCACAACCCY
20517 P T S CGCGCCGAGGAAGGTTGCACAACCCY
20517 T C S GAGGGGGTTGTGCAACCTCCAGAAAGGGAGAAATTTGCATGGAGCCCTACCACTC
20517 T T S GAGGGGGTTGTGCAACCTTCAGAAAGGGAGAAATTTGCATGGAGCCCTACCACTC
TCTATGACCACTTTTCAGCCATAACCTTGTCTGAGGTCAAAGGAGGGGGTTGTGCAACCT[CT]CAGAAAGGGAGAAATTTGCATGGAGCCCTACCACTCTGA
20517 IS [CT] GGATACGCGTGACAGATAAGA
20531 I A GGTCTTGTTTTGACTTGTTAGACTCAAAATGTCTGTTTTTGCCAATTCATTTC
20531 P G A ATGACGTGGCAGACGCCCTATCAAGATTTGTATTTATAGY
20531 P T A CGCGCCGAGGTCCCTATCAAGATTTGTATTTATAGGY
20531 T G A CAAGCCTATAAATACAAATCTTGATAGGGCAAATGAATTGGCAAAAACAGACATTTTGAGTCTAACAAGTCAAAACAAGACCTT
20531 T T A CAAGCCTATAAATACAAATCTTGATAGGGAAAATGAATTGGCAAAAACAGACATTTTGAGTCTAACAAGTCAAAACAAGACCTT
GGATCAAAGGTCTTGTTTTGACTTGTTAGACTCAAAATGTCTGTTTTTGCCAATTCATTT[GT]CCCTATCAAGATTTGTATTTATAGGCTTGAAATGGATATTG
20531 IS [GT] TCCTTTGGAAAAGCTGCTG
20548 I S TGAATGCTTTACTCTGACATGTGAATAACATAATTTTTCAAGATTTGATATGTTC
20548 P A S CGCGCCGAGGTAACGACTTACAATTTTACATAAGGY
20548 P T S ATGACGTGGCAGACAAACGACTTACAATTTTACATAAGGY
20548 T A S TTCACCTTATGTAAAATTGTAAGTCGTTAAACATATCAAATCTTGAAAAATTATGTTATTCACATGTCAGAGTAAAGCATTCATG
20548 T T S TTCACCTTATGTAAAATTGTAAGTCGTTTAACATATCAAATCTTGAAAAATTATGTTATTCACATGTCAGAGTAAAGCATTCATG

FIGURE 129E



			GGACATTCATTATCACCAAAAACATAAGCACCTTCACCTTATGTAAAATTGTAAGTCGTT[AT]AACATATCAAATCTTGAAAAATTATGTTATTCACATGTCAGA
20548 IS	[AT]		GTAAAGCATTCATGTTGG
20552 I		A	CCAAGCGCTCCTGTCGGTGCCAA
20552 P	C	A	ATGACGTGGCAGACCGAGGGGTACTCTCTGY
20552 P	T	A	CGCGCCGAGGTGAGGGGTACTCTCTGY
20552 T	C	A	CCAGCAGAGAGTACCCCTCGTGGCACCGACAGGAGCGCTTGGTG
20552 T	T	A	CCAGCAGAGAGTACCCCTCATGGCACCGACAGGAGCGCTTGGTG
			CGGCGGCTGTGAGCAGTACTGCAGTGACCACACGGGCACCAAGCGCTCCTGTCGGTGCCA[CT]GAGGGGTACTCTCTGCTGGCAGACGGGGTGTCCTGC
20552 IS	[CT]		ACACCCACAGGTGACCAGGCTTCA
20557 I		A	CAACAGGTGAGGAAACAATGGCATAGAATTACTTGTGTTCAGAAGAATTTTA[GA]GATGAATATTCCTTAAGCCCAACTACTCTCGGGAAATGAG
20557 P	G	A	ATGACGTGGCAGACGGATGAATATTCCTTAAGCCCY
20557 P	A	A	CGCGCCGAGGAGATGAATATTCCTTAAGCCCY
20557 T	G	A	AGTTGGGCTTAAGGAATATTCATCCTAAAATTCTTCTGAACACAAGTAATTCTATGCCATTGTTTCCTCACCTGTTGGG
20557 T	A	A	AGTTGGGCTTAAGGAATATTCATCTTAAAATTCTTCTGAACACAAGTAATTCTATGCCATTGTTTCCTCACCTGTTGGG
			AAACTCCCCAACAGGTGAGGAAACAATGGCATAGAATTACTTGTGTTCAGAAGAATTTTA[GA]GATGAATATTCCTTAAGCCCAACTACTCTCGGGAAATGAG
20557 IS	[GA]		AACAATGCAAAAATGAGTTT
20558 I		S	GCATTGTTCTCATTTCCCGAGAGTAGTTGGGCTTAAGGAATAA
20558 P	A	S	CGCGCCGAGGTTCATCCTAAAATTCTTCTGAACY
20558 P	G	S	ATGACGTGGCAGACCTCATCCTAAAATTCTTCTGAACY
20558 T	A	S	TTGTGTTCAGAAGAATTTTAGGATGAATATTCCTTAAGCCCAACTACTCTCGGGAAATGAGAACAATGCAA
20558 T	G	S	TTGTGTTCAGAAGAATTTTAGGATGAGTATTCCTTAAGCCCAACTACTCTCGGGAAATGAGAACAATGCAA
			CCCAACAGGTGAGGAAACAATGGCATAGAATTACTTGTGTTCAGAAGAATTTTAGGATGA[AG]TATTCCTTAAGCCCAACTACTCTCGGGAAATGAGAACAAT
20558 IS	[AG]		GCAAAAATGAGTTTGAGACA
20583 I		S	GTTAGCTACTTGTTCAGAATCCAACTTAAAATACCCCACTT
20583 P	G	S	CGCGCCGAGGCCTGGTATTTCTGCATTTGY
20583 P	C	S	ATGACGTGGCAGACGCTGGTATTTCTGCATTTGY
20583 T	G	S	GTTGCAAATGCAGAAATACCAGGAGTGGGGTATTTTAAGTTGGATTCTGAACAAGTAGCTAACTC
20583 T	C	S	GTTGCAAATGCAGAAATACCAGCAGTGGGGTATTTTAAGTTGGATTCTGAACAAGTAGCTAACTC
			GGACACAGCACCACAGCAGCTGACTTACAAGGCACACAGTTGCAAATGCAGAAATACCAG[GC]AGTGGGGTATTTTAAGTTGGATTCTGAACAAGTAGCTAA
20583 IS	[GC]		CTCTATGATGAATTGTACAAG
20621 I		S	CGTGTCTCTGACTGCATCTCCTCTCCCCAT
20621 P	C	S	ATGACGTGGCAGACGCTTAGAGGTGTTAAGATCAGY
20621 P	G	S	CGCGCCGAGGCCTTAGAGGTGTTAAGATCAGY
20621 T	C	S	ACTCCTGATCTTAACACCTCTAAGCTGGGGAGAGGAGATGCAGTCAGAGACACGTC
20621 T	G	S	ACTCCTGATCTTAACACCTCTAAGGTGGGGAGAGGAGATGCAGTCAGAGACACGTC
			TGTAGACAGCCAAGAGTGAGAGGAATTGGGCAGAAGACTCCTGATCTTAACACCTCTAAG[CG]TGGGGAGAGGAGATGCAGTCAGAGACACGTCGCACTTT
20621 IS	[CG]		CCCCCAAAACCGCCCCTTCCCC
20656 I		S	CTGCCTCGGCCCTTCCTGGGCT
20656 P	G	S	CGCGCCGAGGCGGCTAAGAAGCGGTY
20656 P	C	S	ATGACGTGGCAGACGGGCTAAGAAGCGGTY
20656 T	G	S	AAGCACCGCTTCTTAGCCGGCCCAGGAAGGGCCGAGGCAGTC
20656 T	C	S	AAGCACCGCTTCTTAGCCCGCCCAGGAAGGGCCGAGGCAGTC
			TAAAGGGAGGCCCCGCCCCCTGCCAGACTGAGGGAAGGGGCCAAGCACCGCTTCTTAGCC[GC]GCCCAGGAAGGGCCGAGGCAGTCGTTATCCTGGCAG
20656 IS	[GC]		CCCGGCTCTGGGTCGCGGCGTGGC
20697 I		S	GAGTTTCTTGTAGTATTCTCTCAAAACTCTCAAATGTATTATCATATAAACACAGAGC
20697 P	A	S	CGCGCCGAGGTAAAGATTGATTGATGTTTTGGTAAY
20697 P	C	S	ATGACGTGGCAGACGAAAGATTGATTGATGTTTTGGTY
20697 T	A	S	AGAGTTACCAAAACATCAATCAATCTTTACTCTGTGTTTATATGATAATACATTTGAGAGTTTTGAGAGAATACTACAAGAAACTCTT
20697 T	C	S	AGAGTTACCAAAACATCAATCAATCTTTCCTCTGTGTTTATATGATAATACATTTGAGAGTTTTGAGAGAATACTACAAGAAACTCTT
			ATGGGATTAGATATTCTAAAATGAGTGATTGAAGAGTTACCAAAACATCAATCAATCTTT[AC]CTCTGTGTTTATATGATAATACATTTGAGAGTTTTGAGAGAA
20697 IS	[AC]		TACTACAAGAAACTCTTT
20709 I		A	CCTTGAAAGGGGGAAAAAAATCAAGAAATCCAGGTGTGGAAAATATTAT
20709 P	A	A	CGCGCCGAGGATGATCAGGATATGAATAAGTCTTY
20709 P	G	A	ATGACGTGGCAGACGTGATCAGGATATGAATAAGTCTY
20709 T	A	A	TGAAAAGACTTATTCATATCCTGATCATTAATATTTTCCACACCTGGATTTCTTGATTTTTTTCCCCCTTTCAAGGCT
20709 T	G	A	TGAAAAGACTTATTCATATCCTGATCACTAATATTTTCCACACCTGGATTTCTTGATTTTTTTCCCCCTTTCAAGGCT
			TTCCTGGGTCAGCCTTGAAAGGGGGAAAAAAATCAAGAAATCCAGGTGTGGAAAATATTA[AG]TGATCAGGATATGAATAAGTCTTTTCATTAAAAGCAACAG
20709 IS	[AG]		CAAATAAACAAAAAGTTATC
20733 I		A	TGAGAGGAGAATGGAGTGGGAAAAGTACAAAAATACTGACCTTTTTCTTAA
20733 P	T	A	CGCGCCGAGGTCTGTGTCTCCTTCCTTTY
20733 P	C	A	ATGACGTGGCAGACCCTGTGTCTCCTTCCTTY
20733 T	T	A	TCTGAAAGGAAGGAGACACAGATAAGAAAAAGGTCAGTATTTTTGTACTTTTCCCACTCCATTCTCCTCTCACT
20733 T	C	A	TCTGAAAGGAAGGAGACACAGGTAAGAAAAAGGTCAGTATTTTTGTACTTTTCCCACTCCATTCTCCTCTCACT
			AAACATGTAGTGAGAGGAGAATGGAGTGGGAAAAGTACAAAAATACTGACCTTTTTCTTA[TC]CTGTGTCTCCTTCCTTTCAGAATGGAAAAATGGCCCTCTT
20733 IS	[TC]		CAAGCCTGGTGAGTAAATCA
20816 I		S	CGAGTGACTTTTTCTTGCTGTCACACTTTTTAAGGATTCTATAATGAACCTTA
20816 P	A	S	CGCGCCGAGGTATTACTTTGATAATCATCAAAGTGGY
20816 P	G	S	ATGACGTGGCAGACCATTACTTTGATAATCATCAAAGTGY
20816 T	A	S	TAAACCACTTTGATGATTATCAAAGTAATAAAGGTTCATTATAGAATCCTTAAAAAGTGTGACAGCAAGAAAAAGTCACTCGTA
20816 T	G	S	TAAACCACTTTGATGATTATCAAAGTAATGAAGGTTCATTATAGAATCCTTAAAAAGTGTGACAGCAAGAAAAAGTCACTCGTA
			TTTTCTCATATACTTTTTCATTATTGGTTTCTAAACCACTTTGATGATTATCAAAGTAAT[AG]AAGGTTCATTATAGAATCCTTAAAAAGTGTGACAGCAAGAAA
20816 IS	[AG]		AAGTCACTCGTATTCTGC
20875 I		S	GCCCCCCAGCTCCAACCCCCA
20875 P	G	S	ATGACGTGGCAGACCCAATAGGCCCTAGCTY
20875 P	A	S	CGCGCCGAGGTCAATAGGCCCTAGCTGY
20875 T	G	S	ATGTCAGCTAGGGCCTATTGGGGGGGTTGGAGCTGGGGGGCAG
20875 T	A	S	ATGTCAGCTAGGGCCTATTGAGGGGGTTGGAGCTGGGGGGCAG
			TGAAAGCAGAGAGCCTTCAGCCCTGGTCAAGCTTCCTTCCATGTCAGCTAGGGCCTATTG[GA]GGGGGTTGGAGCTGGGGGGCAGCAAGTGCTTCACCTG
20875 IS	[GA]		TTCCTAGGGGTTCTCTGTGCATG
20878 I		S	TGGAAGCTGGACCTGGCCCCCTCT
20878 P	T	S	CGCGCCGAGGATCTCGCGCAGCAY
20878 P	C	S	ATGACGTGGCAGACGTCTCGCGCAGCAY
20878 T	T	S	TGGCTGCTGCGCGAGATGAGGGGGCCAGGTCCAGCTTCCAAA
20878 T	C	S	TGGCTGCTGCGCGAGACGAGGGGGCCAGGTCCAGCTTCCAAA
			TATGGGCCATCGTGGCTGCCTGTGTGGGGACTGAAGCTGGGCGCTGGCTGCTGCGCGAGA[TC]GAGGGGGCCAGGTCCAGCTTCCAAAGGGCAGCTTCC
20878 IS	[TC]		AGGCAGAGGGCTGCTAACTGGCTG
20881 I		A	TGCCTGCACACATTGTCAGTTGGTCCAGGA
20881 P	C	A	ATGACGTGGCAGACCGGTAAGTCATGAGGAGTY
20881 P	T	A	CGCGCCGAGGTGGTAAGTCATGAGGAGTY
20881 T	C	A	ACCCACTCCTCATGACTTACCGCCTGGACCAACTGACAATGTGTGCAGGCACT
20881 T	T	A	ACCCACTCCTCATGACTTACCACCTGGACCAACTGACAATGTGTGCAGGCACT
			TCACCCATGCCGTGCCTGGCACCTTGCTAAGTGCCTGCACACATTGTCAGTTGGTCCAGG[CT]GGTAAGTCATGAGGAGTGGGTTTTAGTGTCCCAAAGCC
20881 IS	[CT]		TCAGGGAGGTTAAGGCATGTCC
20890 I		S	GAATAGTTTGCAGGCACTTCCCTTCATGGGAAAATACTATGTACT
20890 P	C	S	ATGACGTGGCAGACGTTTCACTATAGACAGGGTATGY
20890 P	T	S	CGCGCCGAGGATTTCACTATAGACAGGGTATGY
20890 T	C	S	CATGCATACCCTGTCTATAGTGAAACGTACATAGTATTTTCCCATGAAGGGAAGTGCCTGCAAACTATTCAA

FIGURE 129E

20890	T	T	S	CATGCATACCCTGTCTATAGTGAAATGTACATAGTATTTTCCCATGAAGGGAAGTGCCTGCAAACTATTCAA
20890	IS	[CT]		TAGAAAGGTCTTGATTTCCATGCTGGGGGTGTAGCCATGCATACCCTGTCTATAGTGAAA[CT]GTACATAGTATTTTCCCATGAAGGGAAGTGCCTGCAAAC TATTCAAAGTATCAGGCCACA
20904	I		A	GGGGAGTGGGATGCCCAAGGGAAATGTCT
20904	P	A	A	CGCGCCGAGGATAAAGGGTCCACTGGTY
20904	P	C	A	ATGACGTGGCAGACCTAAAGGGTCCACTGGTY
20904	T	A	A	CCCAACCAGTGGACCCTTTATGACATTTCCCTTGGGCATCCCACTCCCCTG
20904	T	C	A	CCCAACCAGTGGACCCTTTAGGACATTTCCCTTGGGCATCCCACTCCCCTG
20904	IS	[AC]		GGGGCAGGGAGGGCTGGCCCACGTGATGGCCAGGGGAGTGGGATGCCCAAGGGAAATGTC[AC]TAAAGGGTCCACTGGTTGGGAAAAAATGGAAAATGG AAATAAGGTTAAAATTGAAATGTT
20905	I		S	GAGTAATAAAGCAGTTTGAAAGAAATTTGTTTAAGTCTTCACAAATCACTTTTTAAAT
20905	P	T	S	CGCGCCGAGGAACATTTCAATTTTAACCTTATTTCCY
20905	P	C	S	ATGACGTGGCAGACGACATTTCAATTTTAACCTTATTTCCY
20905	T	T	S	AAATGGAAATAAGGTTAAAATTGAAATGTTTTTAAAAAGTGATTTGTGAAGACTTAAACAAATTTCTTTCAAACTGCTTTATTACTCAT
20905	T	C	S	AAATGGAAATAAGGTTAAAATTGAAATGTCTTTAAAAAGTGATTTGTGAAGACTTAAACAAATTTCTTTCAAACTGCTTTATTACTCAT
20905	IS	[TC]		ATAAAGGGTCCACTGGTTGGGAAAAAATGGAAAATGGAAATAAGGTTAAAATTGAAATGT[TC]TTAAAAAGTGATTTGTGAAGACTTAAACAAATTTCTTTCA AACTGCTTTATTACTCATA
20949	I		A	ACAAGAAGTAGTACCAACCCAGTGAGTCTCGGGTT
20949	P	G	A	ATGACGTGGCAGACGAGAAATTGGAGTGGTTTGY
20949	P	A	A	CGCGCCGAGGAAGAAATTGGAGTGGTTTGGY
20949	T	G	A	GAAACCAAACCACTCCAATTTCTCACCCGAGACTCACTGGGTTGGTACTACTTCTTGTGT
20949	T	A	A	GAAACCAAACCACTCCAATTTCTTACCCGAGACTCACTGGGTTGGTACTACTTCTTGTGT
20949	IS	[GA]		AGCTAGAGCCCACGTTTGGAGAAAACACAAGAAGTAGTACCAACCCAGTGAGTCTCGGGT[GA]AGAAATTGGAGTGGTTTGGTTTCCCATCTCTAACTTGGC CAGATGTACCATAAGCTGTAT
20959	I		S	GTCAGCAAAATGTGACTTGCTGTTGTCCCAATTATTTCTTATAATCTCGATAATTTTT
20959	P	T	S	CGCGCCGAGGATTTTCTAATAGCCAAATAACAAATTCY
20959	P	C	S	ATGACGTGGCAGACGTTTTCTAATAGCCAAATAACAAATTY
20959	T	T	S	CATAGAATTTGTTATTTGGCTATTAGAAAATAAAATTATCGAGATTATAAGAAATAATTGGGACAACAGCAAGTCACATTTTGCTGACTT
20959	T	C	S	CATAGAATTTGTTATTTGGCTATTAGAAAACAAAATTATCGAGATTATAAGAAATAATTGGGACAACAGCAAGTCACATTTTGCTGACTT
20959	IS	[TC]		GGGTGTCTCAGAGTTTTCTTAAATTTATAACATAGAATTTGTTATTTGGCTATTAGAAAA[TC]AAAATTATCGAGATTATAAGAAATAATTGGGACAACAGCAAG TCACATTTTGCTGACTTC
21004	I		S	GATCATCGATACCACCCAGGCTCCTTATTTGTGGATCA
21004	P	G	S	ATGACGTGGCAGACCCACATCTACAAATGCGCY
21004	P	A	S	CGCGCCGAGGTCACATCTACAAATGCGCY
21004	T	G	S	GTAGGCGCATTTGTAGATGTGGGATCCACAAATAAGGAGCCTGGGTGGTATCGATGATCAA
21004	T	A	S	GTAGGCGCATTTGTAGATGTGAGATCCACAAATAAGGAGCCTGGGTGGTATCGATGATCAA
21004	IS	[GA]		ACGAGTATTGATTCTGGAGTTACAAACACATTTTAGTGAGTAGGCGCATTTGTAGATGTG[GA]GATCCACAAATAAGGAGCCTGGGTGGTATCGATGATCAA AGGGCCTAGCACACCTCAGGC
21008	I		S	GAAGGATCTCTGATTTTAAAAAAGCCTCTGCCTTAGCAAAATCTCAACT
21008	P	C	S	ATGACGTGGCAGACGGTCTTTTAAGGTGAAATATTCTAAAY
21008	P	T	S	CGCGCCGAGGAGTCTTTTAAGGTGAAATATTCTAAAAY
21008	T	C	S	CTCCTTTTAGAATATTTCACCTTAAAAGACCGTTGAGATTTTGCTAAGGCAGAGGCTTTTTTAAAATCAGAGATCCTTCTC
21008	T	T	S	CTCCTTTTAGAATATTTCACCTTAAAAGACTGTTGAGATTTTGCTAAGGCAGAGGCTTTTTTAAAATCAGAGATCCTTCTC
21008	IS	[CT]		ATCATAGCTGTCGATCTAGAAAACCTCATGCTCCTTTTAGAATATTTCACCTTAAAAGAC[CT]GTTGAGATTTTGCTAAGGCAGAGGCTTTTTTAAAATCAGAG ATCCTTCTCCTCCAGGTTC
21017	I		S	GAAAGCAACCGTGTTCATGAAAGGAAATGACTTTGAAAGGAA
21017	P	A	S	CGCGCCGAGGTGTCATCGGTGATGCCY
21017	P	G	S	ATGACGTGGCAGACCGTCATCGGTGATGCY
21017	T	A	S	TTGTGGCATCACCGATGACATCCTTTCAAAGTCATTTCCTTTCATGAACACGGTTGCTTTCCA
21017	T	G	S	TTGTGGCATCACCGATGACGTCCTTTCAAAGTCATTTCCTTTCATGAACACGGTTGCTTTCCA
21017	IS	[AG]		CTGAGTTGGCTCATTGTTCTGTCTGCTCAGAATTGACTTCCTTGTGGCATCACCGATGAC[AG]TCCTTTCAAAGTCATTTCCTTTCATGAACACGGTTGCTTT CCAATAGCCCTCAGTCACTC
21022	I		S	TGGCCCAACCTCGTTTTAGATCTGACAAAGTGACAT
21022	P	T	S	CGCGCCGAGGAAGCAGGCCTAAGTGAY
21022	P	C	S	ATGACGTGGCAGACGAGCAGGCCTAAGTGAY
21022	T	T	S	TGGATCACTTAGGCCTGCTTTGTCACTTTGTCAGATCTAAAACGAGGTTGGGCCAGA
21022	T	C	S	TGGATCACTTAGGCCTGCTCTGTCACTTTGTCAGATCTAAAACGAGGTTGGGCCAGA
21022	IS	[TC]		GGGTCTTGGCTTGGAAGTCCTTGGAATTCTGCCTCTGGGAATGGATCACTTAGGCCTGCT[TC]TGTCACTTTGTCAGATCTAAAACGAGGTTGGGCCAGAT CTGATCCAGCAGAGGATATGTA
21036	I		S	GGCAGCCTTAATGTTGGCACAGCCAACACT
21036	P	C	S	ATGACGTGGCAGACGTGTCCCTTCCAGGCY
21036	P	T	S	CGCGCCGAGGATGTCCCTTCCAGGCY
21036	T	C	S	CGTGGCCTGGAAGGGACACGTGTTGGCTGTGCCAACATTAAGGCTGCCAT
21036	T	T	S	CGTGGCCTGGAAGGGACATGTGTTGGCTGTGCCAACATTAAGGCTGCCAT
21036	IS	[CT]		TACCCCACCACAGCTCCTCCCTCCAGCCACCCCTAAGCAGTCCGTGGCCTGGAAGGGACA[CT]GTGTTGGCTGTGCCAACATTAAGGCTGCCATTTCACTG GTTGGGGCTGCAGCCGTCAGCA
21040	I		A	CGTCTCTCTATTCCTCAACCAGAGTGGGCTGTT
21040	P	C	A	ATGACGTGGCAGACCAGTCTTTTTGAGGGACCY
21040	P	A	A	CGCGCCGAGGAAGTCTTTTTGAGGGACCY
21040	T	C	A	CACAGGTCCCTCAAAAAGACTGACAGCCCACTCTGGTTGAGGAATAGAGAGACGAT
21040	T	A	A	CACAGGTCCCTCAAAAAGACTTACAGCCCACTCTGGTTGAGGAATAGAGAGACGAT
21040	IS	[CA]		CAGGGAGAGGCCGTGCAGATACTGAGATCGTCTCTCTATTCCTCAACCAGAGTGGGCTGT[CA]AGTCTTTTTGAGGGACCTGTGCAAAAGAAATGCAAATTC CTGCAAACCCCAGATCTGGCA
21057	I		A	GGAGCCCCGCCTGGCTCTCAA
21057	P	T	A	CGCGCCGAGGTTGCATGTGGCCACY
21057	P	C	A	ATGACGTGGCAGACCTGCATGTGGCCACY
21057	T	T	A	CACAGTGGCCACATGCAATGAGAGCCAGGCGGGGCTCCCA
21057	T	C	A	CACAGTGGCCACATGCAGTGAGAGCCAGGCGGGGCTCCCA
21057	IS	[TC]		AACACCCCCACTCTCCCCACCCCGAACTCCAGAGCCCCTGGGAGCCCCGCCTGGCTCTCA[TC]TGCATGTGGCCACTGTGTCTGCCGTGTGCCTTGCCTG CCTGTTCCCTTCTCGTGTGAGCT
21081	I		S	CACTCACGCTCTGCAGAGTGGCCCT
21081	P	C	S	ATGACGTGGCAGACGTGCCCAGACAAAGGY
21081	P	T	S	CGCGCCGAGGATGCCCAGACAAAGGY
21081	T	C	S	GTTGCCTTTGTCTGGGCACGGGCCACTCTGCAGAGCGTGAGTGCA
21081	T	T	S	GTTGCCTTTGTCTGGGCATGGGCCACTCTGCAGAGCGTGAGTGCA
21081	IS	[CT]		CTATACCCAGGACCATGGTCATGATGGACGCGACAGGCCACAGTTGCCTTTGTCTGGGCA[CT]GGGCCACTCTGCAGAGCGTGAGTGCATGCTGCAGTCA CCCGAGTGCGCAGCCCATCAGCA
21206	I		S	CCTCTGGTAGACACCTACAGGACCCCAGCA
21206	P	A	S	CGCGCCGAGGTCTTATGAAGCTGACTCCAY
21206	P	G	S	ATGACGTGGCAGACCCTTATGAAGCTGACTCCY
21206	T	A	S	TTGGTGGAGTCAGCTTCATAAGAGCTGGGGTCCTGTAGGTGTCTACCAGAGGCT
21206	T	G	S	TTGGTGGAGTCAGCTTCATAAGGGCTGGGGTCCTGTAGGTGTCTACCAGAGGCT
21206	IS	[AG]		GGAGGGAAGCCGGTTTGGTCCGTGTGGGCCAGCGTGGTTTGGTGGAGTCAGCTTCATAAG[AG]GCTGGGGTCCTGTAGGTGTCTACCAGAGGCTGGTGG CTAAGTAGGCATGTGAACTTACAT
21262	I		A	TGTTGCATTTGAGGAAAGGGAGAAGATGAACATAGGTCTACAT

FIGURE 129E

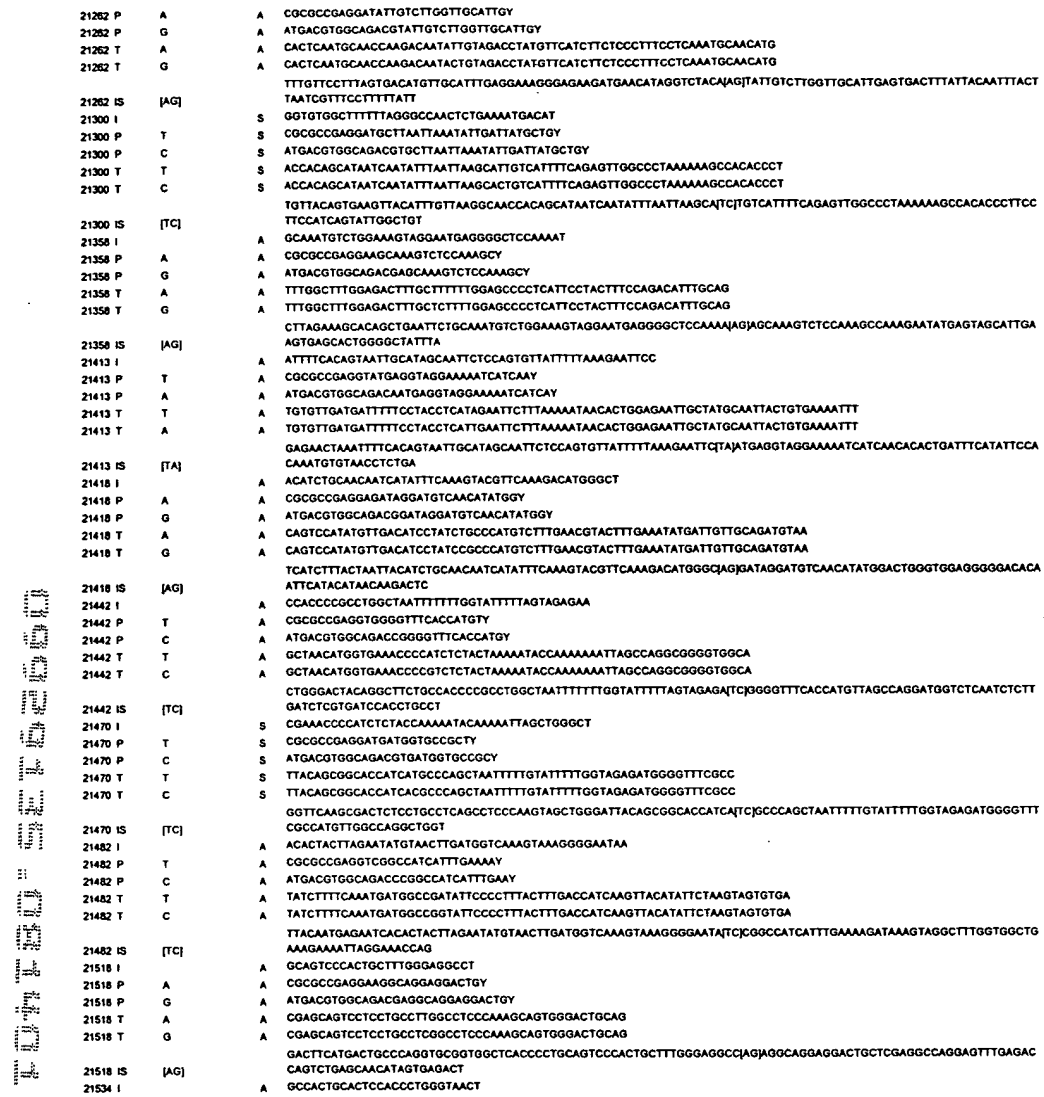

21262 P A A CGCGCCGAGGATATTGTCTTGGTTGCATTGY
21262 P G A ATGACGTGGCAGACGTATTGTCTTGGTTGCATTGY
21262 T A A CACTCAATGCAACCAAGACAATATTGTAGACCTATGTTCATCTTCTCCCTTTCCTCAAATGCAACATG
21262 T G A CACTCAATGCAACCAAGACAATACTGTAGACCTATGTTCATCTTCTCCCTTTCCTCAAATGCAACATG
21262 IS [AG] TTTGTTCCTTTAGTGACATGTTGCATTTGAGGAAAGGGAGAAGATGAACATAGGTCTACA[AG]TATTGTCTTGGTTGCATTGAGTGACTTTATTACAATTTACT TAATCGTTTCCTTTTTATT
21300 I S GGTGTGGCTTTTTTAGGGCCAACTCTGAAAATGACAT
21300 P T S CGCGCCGAGGATGCTTAATTAAATATTGATTATGCTGY
21300 P C S ATGACGTGGCAGACGTGCTTAATTAAATATTGATTATGCTGY
21300 T T S ACCACAGCATAATCAATATTTAATTAAGCATTGTCATTTTCAGAGTTGGCCCTAAAAAAGCCACACCCT
21300 T C S ACCACAGCATAATCAATATTTAATTAAGCACTGTCATTTTCAGAGTTGGCCCTAAAAAAGCCACACCCT
21300 IS [TC] TGTTACAGTGAAGTTACATTTGTTAAGGCAACCACAGCATAATCAATATTTAATTAAGCA[TC]TGTCATTTTCAGAGTTGGCCCTAAAAAAGCCACACCCTTCC TTCCATCAGTATTGGCTGT
21358 I A GCAAATGTCTGGAAAGTAGGAATGAGGGGCTCCAAAAT
21358 P A A CGCGCCGAGGAAGCAAAGTCTCCAAAGCY
21358 P G A ATGACGTGGCAGACGAGCAAAGTCTCCAAAGCY
21358 T A A TTTGGCTTTGGAGACTTTGCTTTTTTGGAGCCCCTCATTCCTACTTTCCAGACATTTGCAG
21358 T G A TTTGGCTTTGGAGACTTTGCTCTTTTGGAGCCCCTCATTCCTACTTTCCAGACATTTGCAG
21358 IS [AG] CTTAGAAAGCACAGCTGAATTCTGCAAATGTCTGGAAAGTAGGAATGAGGGGCTCCAAAA[AG]AGCAAAGTCTCCAAAGCCAAAGAATATGAGTAGCATTGA AGTGAGCACTGGGGCTATTTA
21413 I A ATTTTCACAGTAATTGCATAGCAATTCTCCAGTGTTATTTTTAAAGAATTCC
21413 P T A CGCGCCGAGGTATGAGGTAGGAAAAATCATCAAY
21413 P A A ATGACGTGGCAGACAATGAGGTAGGAAAAATCATCAY
21413 T T A TGTGTTGATGATTTTTCCTACCTCATAGAATTCTTTAAAAATAACACTGGAGAATTGCTATGCAATTACTGTGAAAATTT
21413 T A A TGTGTTGATGATTTTTCCTACCTCATTGAATTCTTTAAAAATAACACTGGAGAATTGCTATGCAATTACTGTGAAAATTT
21413 IS [TA] GAGAACTAAATTTTCACAGTAATTGCATAGCAATTCTCCAGTGTTATTTTTAAAGAATTC[TA]ATGAGGTAGGAAAAATCATCAACACACTGATTTCATATTCCA CAAATGTGTAACCTCTGA
21418 I A ACATCTGCAACAATCATATTTCAAAGTACGTTCAAAGACATGGGCT
21418 P A A CGCGCCGAGGAGATAGGATGTCAACATATGGY
21418 P G A ATGACGTGGCAGACGGATAGGATGTCAACATATGGY
21418 T A A CAGTCCATATGTTGACATCCTATCTGCCCATGTCTTTGAACGTACTTTGAAATATGATTGTTGCAGATGTAA
21418 T G A CAGTCCATATGTTGACATCCTATCCGCCCATGTCTTTGAACGTACTTTGAAATATGATTGTTGCAGATGTAA
21418 IS [AG] TCATCTTTACTAATTACATCTGCAACAATCATATTTCAAAGTACGTTCAAAGACATGGGC[AG]GATAGGATGTCAACATATGGACTGGGTGGAGGGGGACACA ATTCATACATAACAAGACTC
21442 I A CCACCCCGCCTGGCTAATTTTTTTGGTATTTTTAGTAGAGAA
21442 P T A CGCGCCGAGGTGGGGTTTCACCATGTY
21442 P C A ATGACGTGGCAGACCGGGGTTTCACCATGY
21442 T T A GCTAACATGGTGAAACCCCATCTCTACTAAAAATACCAAAAAAATTAGCCAGGCGGGGTGGCA
21442 T C A GCTAACATGGTGAAACCCCGTCTCTACTAAAAATACCAAAAAAATTAGCCAGGCGGGGTGGCA
21442 IS [TC] CTGGGACTACAGGCTTCTGCCACCCCGCCTGGCTAATTTTTTTGGTATTTTTAGTAGAGA[TC]GGGGTTTCACCATGTTAGCCAGGATGGTCTCAATCTCTT GATCTCGTGATCCACCTGCCT
21470 I S CGAAACCCCATCTCTACCAAAAATACAAAAATTAGCTGGGCT
21470 P T S CGCGCCGAGGATGATGGTGCCGCTY
21470 P C S ATGACGTGGCAGACGTGATGGTGCCGCY
21470 T T S TTACAGCGGCACCATCATGCCCAGCTAATTTTTGTATTTTTGGTAGAGATGGGGTTTCGCC
21470 T C S TTACAGCGGCACCATCACGCCCAGCTAATTTTTGTATTTTTGGTAGAGATGGGGTTTCGCC
21470 IS [TC] GGTTCAAGCGACTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGATTACAGCGGCACCATCA[TC]GCCCAGCTAATTTTTGTATTTTTGGTAGAGATGGGGTTT CGCCATGTTGGCCAGGCTGGT
21482 I A ACACTACTTAGAATATGTAACTTGATGGTCAAAGTAAAGGGGAATAA
21482 P T A CGCGCCGAGGTCGGCCATCATTTGAAAAY
21482 P C A ATGACGTGGCAGACCCGGCCATCATTTGAAY
21482 T T A TATCTTTTCAAATGATGGCCGATATTCCCCTTTACTTTGACCATCAAGTTACATATTCTAAGTAGTGTGA
21482 T C A TATCTTTTCAAATGATGGCCGGTATTCCCCTTTACTTTGACCATCAAGTTACATATTCTAAGTAGTGTGA
21482 IS [TC] TTACAATGAGAATCACACTACTTAGAATATGTAACTTGATGGTCAAAGTAAAGGGGAATA[TC]CGGCCATCATTTGAAAAGATAAAGTAGGCTTTGGTGGCTG AAAGAAAATTAGGAAACCAG
21518 I A GCAGTCCCACTGCTTTGGGAGGCCT
21518 P A A CGCGCCGAGGAAGGCAGGAGGACTGY
21518 P G A ATGACGTGGCAGACGAGGCAGGAGGACTGY
21518 T A A CGAGCAGTCCTCCTGCCTTGGCCTCCCAAAGCAGTGGGACTGCAG
21518 T G A CGAGCAGTCCTCCTGCCTCGGCCTCCCAAAGCAGTGGGACTGCAG
21518 IS [AG] GACTTCATGACTGCCCAGGTGCGGTGGCTCACCCCTGCAGTCCCACTGCTTTGGGAGGCC[AG]AGGCAGGAGGACTGCTCGAGGCCAGGAGTTTGAGAC CAGTCTGAGCAACATAGTGAGACT
21534 I A GCCACTGCACTCCACCCTGGGTAACT
21534 P G A ATGACGTGGCAGACGGAACAAGACCCTGTCTY
21534 P A A CGCGCCGAGGAGAACAAGACCCTGTCTCY
21534 T G A TTTTGAGACAGGGTCTTGTTCCGTTACCCAGGGTGGAGTGCAGTGGCGC
21534 T A A TTTTGAGACAGGGTCTTGTTCTGTTACCCAGGGTGGAGTGCAGTGGCGC
21534 IS [GA] GCCTAAGCAGTCGCGGCTGCAGTGAACAAGATCGCGCCACTGCACTCCACCCTGGGTAAC[GA]GAACAAGACCCTGTCTCAAAAAAAAAAAAGAAATCCAC TCCCCATATGATAGCCAGCGGA
21550 I S CGCAGGTCAGAAAGTCCCACGCCCT
21550 P C S ATGACGTGGCAGACGGTGCAGCAGCGY
21550 P T S CGCGCCGAGGAGTGCAGCAGCGCY
21550 T C S CGGGGCGCTGCTGCACCGGGCGTGGGACTTTCTGACCTGCGAG
21550 T T S CGGGGCGCTGCTGCACTGGGCGTGGGACTTTCTGACCTGCGAG
21550 IS [CT] CCGGGCACTGGGCACACACGCCTGTCCCACCCCGACCTCTGCTGCGGGGCGCTGCTGCAC[CT]GGGCGTGGGACTTTCTGACCTGCGAGGAACCCCCAC CCCCCTGCGCCTACAGACCTGCTC
21555 I S CCTTGTCCTGGGACTTGGCACGCCA
21555 P A S CGCGCCGAGGTGACCATAGTCATACCTGCY
21555 P G S ATGACGTGGCAGACCGACCATAGTCATACCTGY
21555 T A S ACAAGCAGGTATGACTATGGTCAGGCGTGCCAAGTCCCAGGACAAGGAA
21555 T G S ACAAGCAGGTATGACTATGGTCGGGCGTGCCAAGTCCCAGGACAAGGAA
21555 IS [AG] CCTGTGTGGAGCCCATTACCTGAAGAGGGGCCAAGAGGACAAGCAGGTATGACTATGGTC[AG]GGCGTGCCAAGTCCCAGGACAAGGAAGGACGGGTGC TCCAGGAAGCACAGGAGGGGGCAT
21560 I S CACCGTCTTTCCCTTTTTCGGATGTCCCTGTTTACT
21560 P G S ATGACGTGGCAGACCTGAATCAACTCATTTAATCCTCY
21560 P T S CGCGCCGAGGATGAATCAACTCATTTAATCCTCY
21560 T G S TTGTGAGGATTAAATGAGTTGATTCAGGTAAACAGGGACATCCGAAAAAGGGAAAGACGGTGCT
21560 T T S TTGTGAGGATTAAATGAGTTGATTCATGTAAACAGGGACATCCGAAAAAGGGAAAGACGGTGCT
21560 IS [GT] TGTGATATGATGGTCATATCATAGCACAGGGCTGTTGTGAGGATTAAATGAGTTGATTCA[GT]GTAAACAGGGACATCCGAAAAAGGGAAAGACGGTGCTTG TCCTGAGAACAGCTGTGAATG
21563 I S CAACATGGTGAAACCCCAACTGTACTAAAAACACAAAAATTAGCCT
21563 P C S ATGACGTGGCAGACGGGCATGGTGGCAY
21563 P T S CGCGCCGAGGAGGCATGGTGGCAY
21563 T C S CACCTGCCACCATGCCCGGCTAATTTTTGTGTTTTTAGTACAGTTGGGGTTTCACCATGTTGGC
21563 T T S CACCTGCCACCATGCCTGGCTAATTTTTGTGTTTTTAGTACAGTTGGGGTTTCACCATGTTGGC
21563 IS [CT] AAGCAATTCTCTTCCACAGCCTCCTGAGTAGCTGGGATTACAGGCACCTGCCACCATGCC[CT]GGCTAATTTTTGTGTTTTTAGTACAGTTGGGGTTTCACC ATGTTGGCCAGGCTGGTCTTG
21571 I S GGGGGGATTTAGTTTTGTTTGTTTTTGAGATGGAGTCTTGCTCA
21571 P G S ATGACGTGGCAGACCATCGCTCAGGCTGY

FIGURE 129E

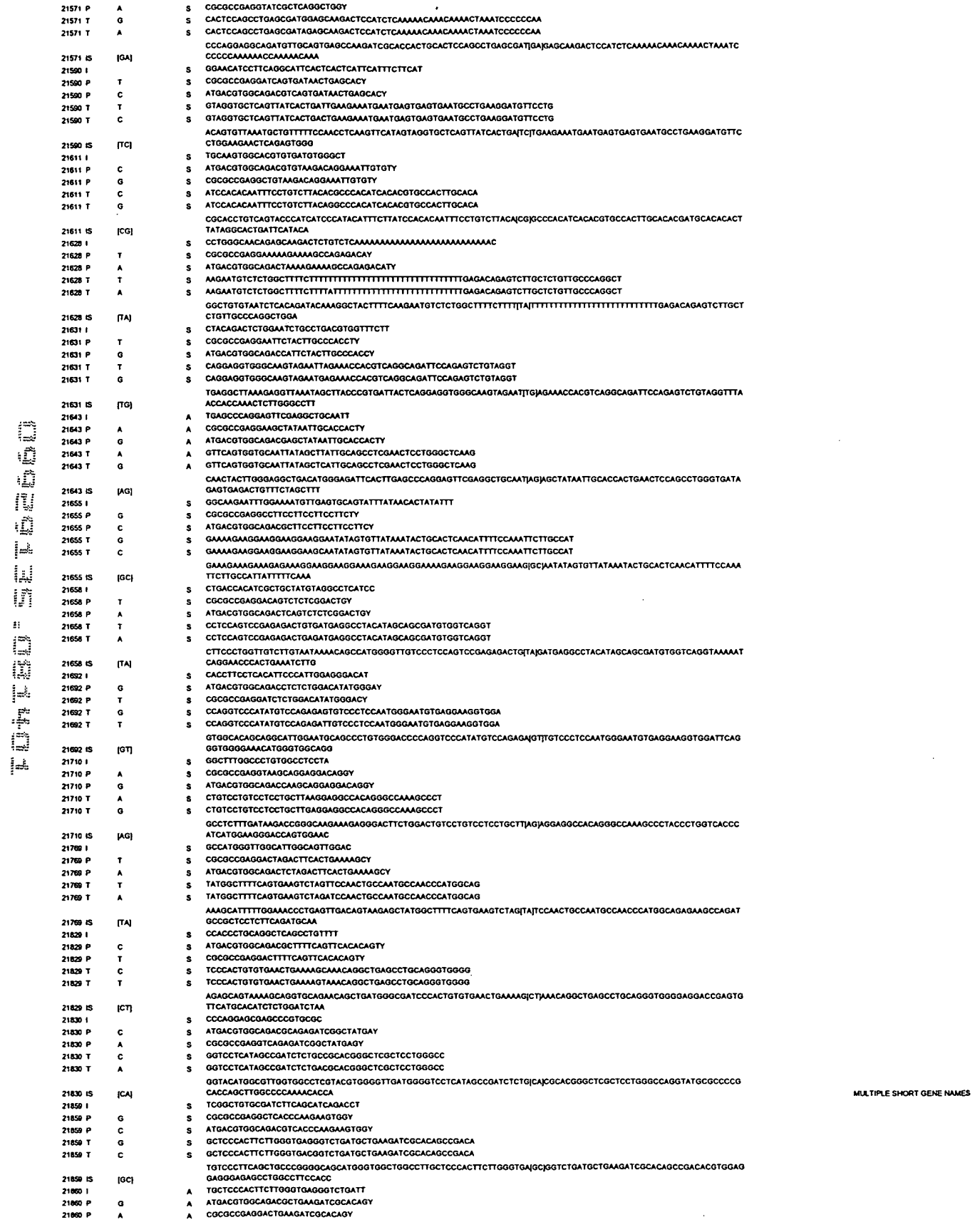
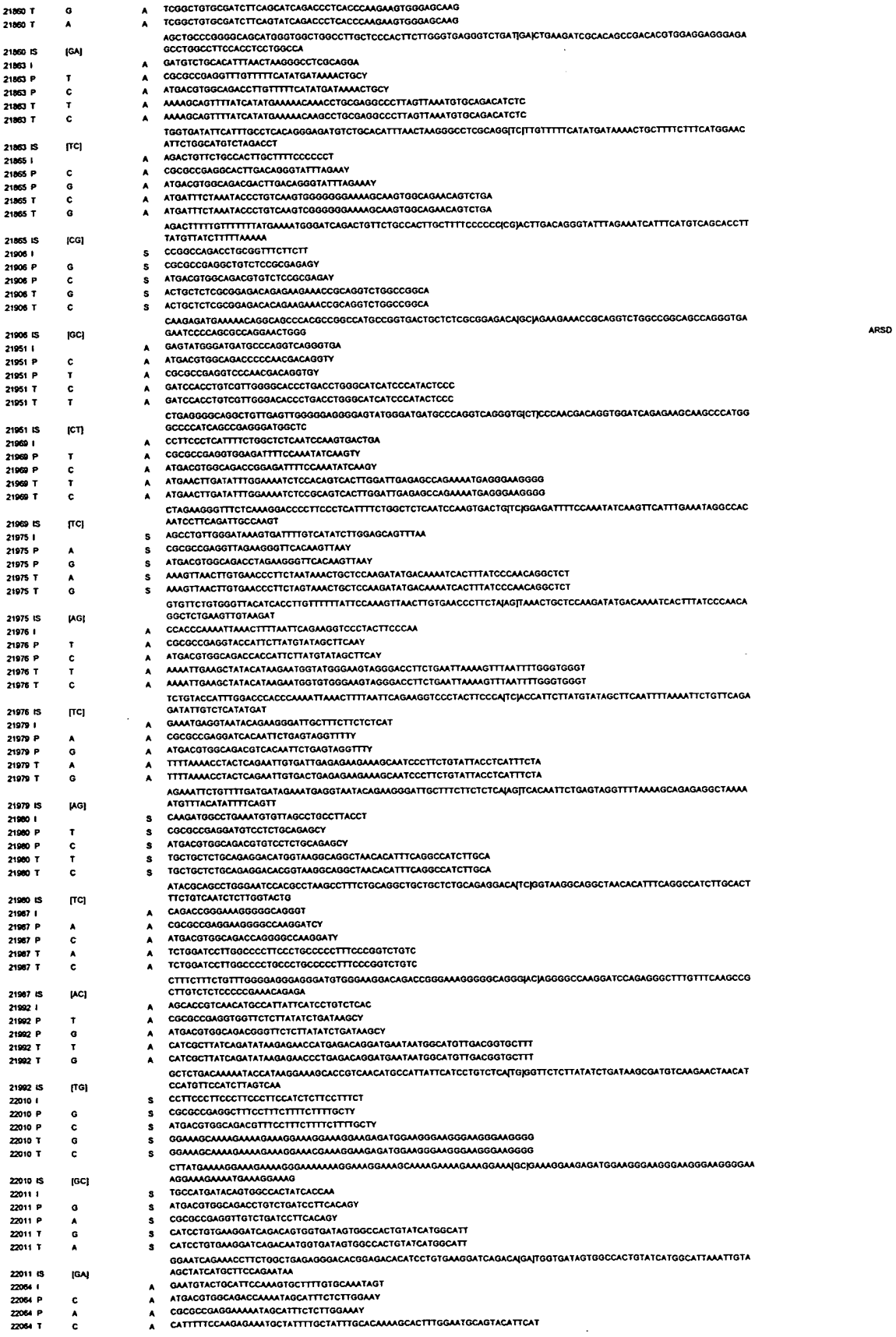
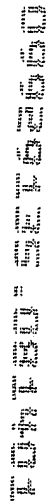


FIGURE 129E



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FIGURE 129E



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22064 T   A     A   CATTTTTCCAAGAGAAATGCTATTTTTCTATTTGCACAAAAGCACTTTGGAATGCAGTACATTCAT
                      ACTGGGGGTATTCAATAATGAATGAATGTACTGCATTCCAAAGTGCTTTTGTGCAAATAG[CA]AAAATAGCATTTCTCTTGGAAAAATGGCCTATGGACTCTT
22064 IS  [CA]         CCTAAACAAAGCATGACTAA
22066 I             S   CCCCAGGCAACCCACATTAAATTGTGATGTAAGAATGAAATAAGTTACTATTTA
22066 P   A         S   CGCGCCGAGGTTGTTAAGCTATTGAGATACTGTY
22066 P   G         S   ATGACGTGGCAGACCTGTTAAGCTATTGAGATACTGTY
22066 T   A         S   ACACACAGTATCTCAATAGCTTAACAAAAATAGTAACTTATTTCATTCTTACATCACAATTTAATGTGGGTTGCCTGGGGAG
22066 T   G         S   ACACACAGTATCTCAATAGCTTAACAGAAATAGTAACTTATTTCATTCTTACATCACAATTTAATGTGGGTTGCCTGGGGAG
                      CACCCTCCCCCCCACCCCCACCCCCCCCACACACACACAGTATCTCAATAGCTTAACA[AG]AAATAGTAACTTATTTCATTCTTACATCACAATTTAATGTG
22066 IS  [AG]         GGTTGCCTGGGGAGTGGAA
22077 I             A   CGGACTGGACTATAAGGGCAACAAATTCAAGGCCA
22077 P   C         A   ATGACGTGGCAGACCTCTTCTCTATATCACTTCTAGGY
22077 P   T         A   CGCGCCGAGGTTCTTCTCTATATCACTTCTAGGY
22077 T   C         A   GTAGCCTAGAAGTGATATAGAGAAGAAGGGCCTTGAATTTGTTGCCCTTATAGTCCAGTCCGCA
22077 T   T         A   GTAGCCTAGAAGTGATATAGAGAAGAAGGCCTTGAATTTGTTGCCCTTATAGTCCAGTCCGCA
                      TCCTGTGGCAGAGTTGAGCAGATTTGCGGACTGGACTATAAGGGCAACAAATTCAAGGCC[CT]TCTTCTCTATATCACTTCTAGGCTACTCCCTGAGGTCCT
22077 IS  [CT]         GTGACTGAAAAATGAGGCCCC
22079 I             S   TGGTGCCAATGAGGTTGGAATTATGAGTGCAATCCTACT
22079 P   C         S   ATGACGTGGCAGACGTATGCTTCTAAGGAGTGCY
22079 P   T         S   CGCGCCGAGGATATGCTTCTAAGGAGTGCY
22079 T   C         S   GCCAGCACTCCTTAGAAGCATACGTAGGATTGCACTCATAATTCCAACCTCATTGGCACCAGA
22079 T   T         S   GCCAGCACTCCTTAGAAGCATATGTAGGATTGCACTCATAATTCCAACCTCATTGGCACCAGA
                      CAATCTTTCCACAGGTCCCCCATGTGACTAGTTAAGTAGCCAGCACTCCTTAGAAGCATA[CT]GTAGGATTGCACTCATAATTCCAACCTCATTGGCACCAGA
22079 IS  [CT]         GTCCGACCAACTGAGCTAAT
22081 I             S   CAGGGGGCAGGGGTGGAAAAGCTTA
22081 P   A         S   CGCGCCGAGGGTGTACAGGAATTGTGGAAAAY
22081 P   G         S   ATGACGTGGCAGACCGTACAGGAATTGTGGAAAY
22081 T   A         S   AAGCTTTTCCACAATTCCTGTACAAAGCTTTTCCACCCCTGCCCCCTGCC
22081 T   G         S   AAGCTTTTCCACAATTCCTGTACGAAGCTTTTCCACCCCTGCCCCCTGCC
                      ACTGAGAAATGTGACTTTCAGACTAGAGATAATGCAAAAGCTTTTCCACAATTCCTGTAC[AG]AAGCTTTTCCACCCCTGCCCCCTGCCACCTGCTTTCCCAT
22081 IS  [AG]         TCATAGGAAAATTTCTTGCT
22104 I             A   CCTTCCAGGTGAACTGATGCTCAAGTTAGAGAACCATCT
22104 P   A         A   CGCGCCGAGGAATCTCGGATTGTAAATCCCY
22104 P   G         A   ATGACGTGGCAGACGATCTCGGATTGTAAATCCCY
22104 T   A         A   AACTGGGATTTACAATCCGAGATTGATGGTTCTCTAACTTGAGCATCAGTTCACCTGGAAGGCT
22104 T   G         A   AACTGGGATTTACAATCCGAGATCGATGGTTCTCTAACTTGAGCATCAGTTCACCTGGAAGGCT
                      CCCAGAAGTCTGTCCTCACAAGCCTTCCAGGTGAACTGATGCTCAAGTTAGAGAACCATC[AG]ATCTCGGATTGTAAATCCCAGTTTCCTCATCTATTAAATA
22104 IS  [AG]         ATAATAGGATTATTGTGAGG
22111 I             S   CCACCTCACCTGGCTAATTTTTGTATTTTTAGTAGAGACGAGGTTTA
22111 P   G         S   ATGACGTGGCAGACCGCCATGTTGGTCAGY
22111 P   A         S   CGCGCCGAGGTGCCATGTTGGTCAGGY
22111 T   G         S   CCAGCCTGACCAACATGGCGAAACCTCGTCTCTACTAAAAATACAAAAATTAGCCAGGTGAGGTGGCA
22111 T   A         S   CCAGCCTGACCAACATGGCAAAACCTCGTCTCTACTAAAAATACAAAAATTAGCCAGGTGAGGTGGCA
                      AGGCTGAGGTGGGTGGATCACTTGAAGTTAGGAGTTCAAGACCAGCCTGACCAACATGGC[GA]AAACCTCGTCTCTACTAAAAATACAAAAATTAGCCAGGT
22111 IS  [GA]         GAGGTGGCAGGCACCTATAAT
22135 I             A   CCCCGCTGGCTGTGAATCCAGTCCAAT
22135 P   G         A   ATGACGTGGCAGACGTGCGTGCAAATTATGCY
22135 P   C         A   CGCGCCGAGGCTGCGTGCAAATTATGCY
22135 T   G         A   AAAGGCATAATTTGCACGCACTTGGACTGGATTCACAGCCAGCGGGGCA
22135 T   C         A   AAAGGCATAATTTGCACGCAGTTGGACTGGATTCACAGCCAGCGGGGCA
                      CTCTCAGTTCTCATTTTGTGCTTTTTCCATCATGCCCCGCTGGCTGTGAATCCAGTCCAA[GC]TGCGTGCAAATTATGCCTTTGCTTTATATTTACTGAGCAA
22135 IS  [GC]         CAACTATGTGCCGCAACAGA
22139 I             S   CCTAAACTTGGGAGTAATCCTTGTCTCCCTTCATTCACTCCT
22139 P   C         S   ATGACGTGGCAGACGTGTCTCGGTTGCCAY
22139 P   T         S   CGCGCCGAGGATGTCTCGGTTGCCAY
22139 T   C         S   GAGGTGGCAACCGAGACACGGAGTGAATGAAGGGAGACAAGGATTACTCCCAAGTTTAGGGC
22139 T   T         S   GAGGTGGCAACCGAGACATGGAGTGAATGAAGGGAGACAAGGATTACTCCCAAGTTTAGGGC
                      AAACAACTGACGCAGCTACAAGGCCGAGCTTAGACTCAACAGGAGGTGGCAACCGAGACA[CT]GGAGTGAATGAAGGGAGACAAGGATTACTCCCAAGTTT
22139 IS  [CT]         AGGGCCTGAACGGCGTAGAGCT
22156 I             S   AGTTAGGCCAGATTAACAGATGTGGGATGCCATATAATGACTTTGA
22156 P   G         S   ATGACGTGGCAGACCCTTCAAGTGAAACTGCAY
22156 P   A         S   CGCGCCGAGGTCTTCAAGTGAAACTGCAGY
22156 T   G         S   TGGACTGCAGTTTCACTTGAAGGCAAAGTCATTATATGGCATCCCACATCTGTTAATCTGGCCTAACTAA
22156 T   A         S   TGGACTGCAGTTTCACTTGAAGACAAAGTCATTATATGGCATCCCACATCTGTTAATCTGGCCTAACTAA
                      GGGTTTTGAGGAGGCCAATGTCTGGGGCCTGCTCCCATTGGACTGCAGTTTCACTTGAAG[GA]CAAAGTCATTATATGGCATCCCACATCTGTTAATCTGGC
22156 IS  [GA]         CTAACTAACGCCTCCCATGTT
22166 I             A   CGCAGGACTGTCTGCAAGAAGGAACAAGAAAAGTTATTCAA
22166 P   C         A   ATGACGTGGCAGACCAGCATCACACCACGY
22166 P   T         A   CGCGCCGAGGTAGCATCACACCACGAY
22166 T   C         A   CCTTTCGTGGTGTGATGCTGTGAATAACTTTTCTTGTTCCTTCTTGCAGACAGTCCTGCGCA
22166 T   T         A   CCTTTCGTGGTGTGATGCTATGAATAACTTTTCTTGTTCCTTCTTGCAGACAGTCCTGCGCA
                      GGCTGCTCGCCCCCAAATTGCGCAGGACTGTCTGCAAGAAGGAACAAGAAAAGTTATTCA[CT]AGCATCACACCACGAAAGGTAGTTGCGTACCGCCCAAC
22166 IS  [CT]         AGGGCCCTCTCCAAACACGGCA
22211 I             S   GCTCCGCTGTGGAGCGGGGAA
22211 P   G         S   ATGACGTGGCAGACCAAGTCGCTCCACTCAY
22211 P   A         S   CGCGCCGAGGTAAGTCGCTCCACTCAAY
22211 T   G         S   GGCGTTGAGTGGAGCGACTTGTCCCCGCTCCACAGCGGAGCAC
22211 T   A         S   GGCGTTGAGTGGAGCGACTTATCCCCGCTCCACAGCGGAGCAC
                      ACCGGGCCAGGGATGGGGCAATGCCACGAGCTCTCTGAGGGGCGTTGAGTGGAGCGACTT[GA]TCCCCGCTCCACAGCGGAGCACCAGCCCAGTGGACA
22211 IS  [GA]         CCCCTGGGTGTGAATATGGACAGC
22242 I             S   GCAGAGTCTTGACCAGACTTGGTATTTTGGAACCCAGT
22242 P   G         S   ATGACGTGGCAGACCTGCCATTCGGTGAGY
22242 P   T         S   CGCGCCGAGGATGCCATTCGGTGAGGY
22242 T   G         S   GCTCCCTCACCGAATGGCAGCTGGGTTCCAAAATACCAAGTCTGGTCAAGACTCTGCCT
22242 T   T         S   GCTCCCTCACCGAATGGCATCTGGGTTCCAAAATACCAAGTCTGGTCAAGACTCTGCCT
                      TCAGATGCTCTCCCTGTGGTCACCCCATGCATCCAGCTTGAGCTCCCTCACCGAATGGCA[GT]CTGGGTTCCAAAATACCAAGTCTGGTCAAGACTCTGCCT
22242 IS  [GT]         ACATCACACTTGCTAATGCCC
22244 I             A   AGGTTGGAAGAGGGGACGCATGCCATT
22244 P   G         A   ATGACGTGGCAGACGGACCCAGCACACAY
22244 P   A         A   CGCGCCGAGGAGACCCAGCACACAGY
22244 T   G         A   CCAGCTGTGTGCTGGGTCCATGGCATGCGTCCCCTCTTCCAACCTCC
22244 T   A         A   CCAGCTGTGTGCTGGGTCTATGGCATGCGTCCCCTCTTCCAACCTCC
                      GGGCTGACCTGCCCCCCACCTTCTGGAAGCTGGGAGGTTGGAAGAGGGGACGCATGCCAT[GA]GACCCAGCACACAGCTGGGAACTCGAGGCACACCTA
22244 IS  [GA]         AGCCTTCCCTTGTGCTGTGCGGAG
22298 I             A   TGGGCACAGCCCCCAGGCCA
22298 P   C         A   ATGACGTGGCAGACCTGGCTTCCCTGCTY
22298 P   T         A   CGCGCCGAGGTTGGCTTCCCTGCTY
22298 T   C         A   ACTCAGCAGGGAAGCCAGGGCCTGGGGGCTGTGCCCAAT
22298 T   T         A   ACTCAGCAGGGAAGCCAAGGCCTGGGGGCTGTGCCCAAT
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FIGURE 129E

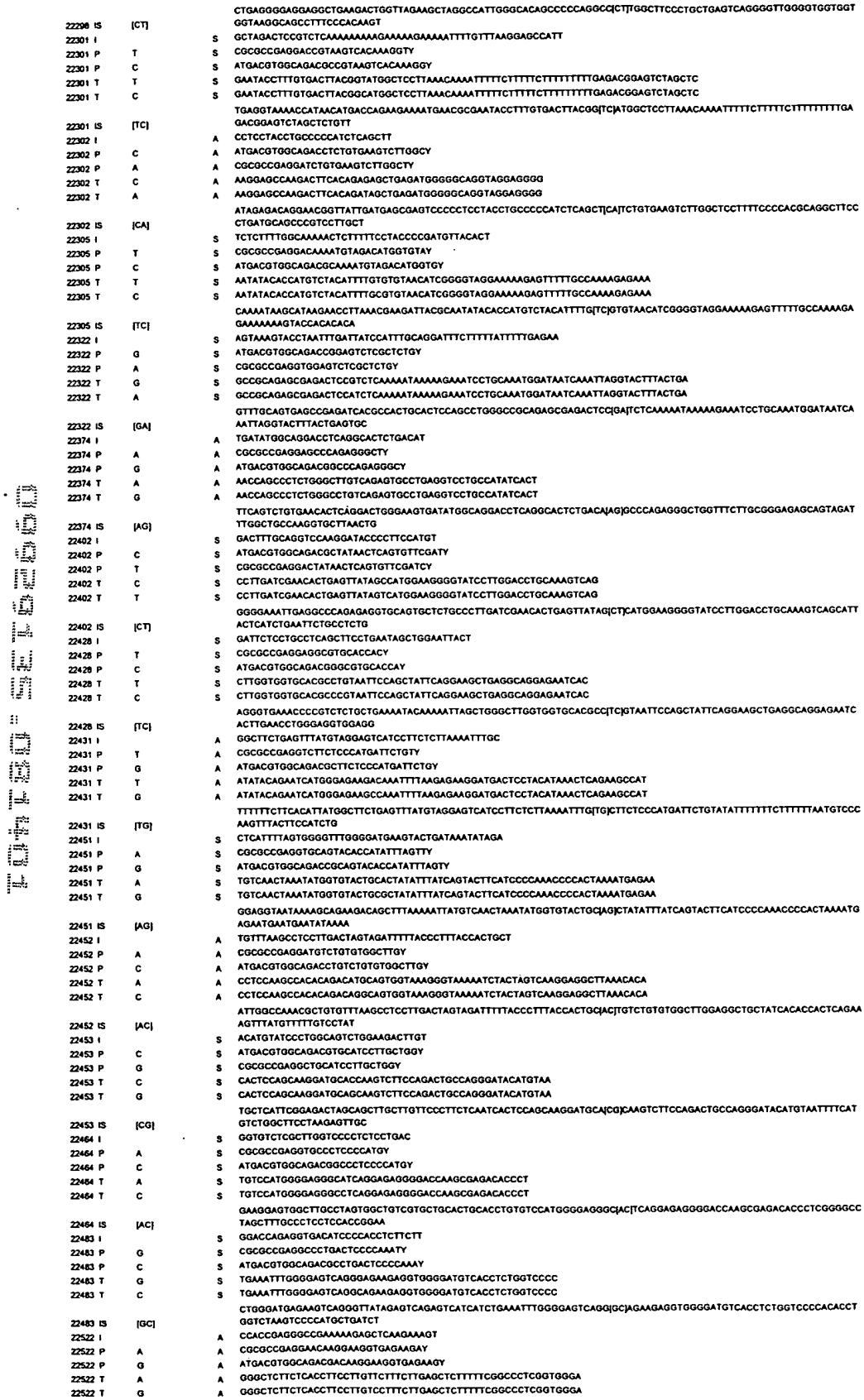
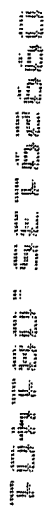

CTGAGGGGAGGAGGCTGAAGACTGGTTAGAAGCTAGGCCATTGGGCACAGCCCCCAGGCC[CT]TGGCTTCCCTGCTGAGTCAGGGGTTGGGGTGGTGGT
22298 IS [CT] GGTAAGGCAGCCTTTCCCACAAGT
22301 I S GCTAGACTCCGTCTCAAAAAAAAAGAAAAAGAAAAATTTTGTTTAAGGAGCCATT
22301 P T S CGCGCCGAGGACCGTAAGTCACAAAGGTY
22301 P C S ATGACGTGGCAGACGCCGTAAGTCACAAAGGY
22301 T T S GAATACCTTTGTGACTTACGGTATGGCTCCTTAAACAAAATTTTTCTTTTTCTTTTTTTTTGAGACGGAGTCTAGCTC
22301 T C S GAATACCTTTGTGACTTACGGCATGGCTCCTTAAACAAAATTTTTCTTTTTCTTTTTTTTTGAGACGGAGTCTAGCTC
TGAGGTAAAACCATAACATGACCAGAAGAAAATGAACGCGAATACCTTTGTGACTTACGG[TC]ATGGCTCCTTAAACAAAATTTTTCTTTTTCTTTTTTTTTGA
22301 IS [TC] GACGGAGTCTAGCTCTGTT
22302 I A CCTCCTACCTGCCCCCATCTCAGCTT
22302 P C A ATGACGTGGCAGACCTCTGTGAAGTCTTGGCY
22302 P A A CGCGCCGAGGATCTGTGAAGTCTTGGCTY
22302 T C A AAGGAGCCAAGACTTCACAGAGAGCTGAGATGGGGGCAGGTAGGAGGGG
22302 T A A AAGGAGCCAAGACTTCACAGATAGCTGAGATGGGGGCAGGTAGGAGGGG
ATAGAGACAGGAACGGTTATTGATGAGCGAGTCCCCCTCCTACCTGCCCCCATCTCAGC[TCA]TCTGTGAAGTCTTGGCTCCTTTTCCCCACGCAGGCTTCC
22302 IS [CA] CTGATGCAGCCCGTCCTTGCT
22305 I S TCTCTTTTGGCAAAAACTCTTTTTCCTACCCCGATGTTACACT
22305 P T S CGCGCCGAGGACAAAATGTAGACATGGTGTAY
22305 P C S ATGACGTGGCAGACGCAAAATGTAGACATGGTGY
22305 T T S AATATACACCATGTCTACATTTTGTGTGTAACATCGGGGTAGGAAAAAGAGTTTTTGCCAAAAGAGAAA
22305 T C S AATATACACCATGTCTACATTTTGCGTGTAACATCGGGGTAGGAAAAAGAGTTTTTGCCAAAAGAGAAA
CAAAATAAGCATAAGAACCTTAAACGAAGATTACGCAATATACACCATGTCTACATTTTG[TC]GTGTAACATCGGGGTAGGAAAAAGAGTTTTTGCCAAAAGA
22305 IS [TC] GAAAAAAAGTACCACACACA
22322 I S AGTAAAGTACCTAATTTGATTATCCATTTGCAGGATTTCTTTTTATTTTTGAGAA
22322 P G S ATGACGTGGCAGACCGGAGTCTCGCTCTGY
22322 P A S CGCGCCGAGGTGGAGTCTCGCTCTGY
22322 T G S GCCGCAGAGCGAGACTCCGTCTCAAAAATAAAAAGAAATCCTGCAAATGGATAATCAAATTAGGTACTTTACTGA
22322 T A S GCCGCAGAGCGAGACTCCATCTCAAAAATAAAAAGAAATCCTGCAAATGGATAATCAAATTAGGTACTTTACTGA
GTTTGCAGTGAGCCGAGATCACGCCACTGCACTCCAGCCTGGGCCGCAGAGCGAGACTCC[GA]TCTCAAAAATAAAAAGAAATCCTGCAAATGGATAATCA
22322 IS [GA] AATTAGGTACTTTACTGAGTGC
22374 I A TGATATGGCAGGACCTCAGGCACTCTGACAT
22374 P A A CGCGCCGAGGAGCCCAGAGGGCTY
22374 P G A ATGACGTGGCAGACGGCCCAGAGGGCY
22374 T A A AACCAGCCCTCTGGGCCTTGTCAGAGTGCCTGAGGTCCTGCCATATCACT
22374 T G A AACCAGCCCTCTGGGCCTGTCAGAGTGCCTGAGGTCCTGCCATATCACT
TTCAGTCTGTGAACACTCAGGACTGGGAAGTGATATGGCAGGACCTCAGGCACTCTGACA[AG]GCCCAGAGGGCTGGTTTCTTGCGGGAGAGCAGTAGAT
22374 IS [AG] TTGGCTGCCAAGGTGCTTAACTG
22402 I S GACTTTGCAGGTCCAAGGATACCCCTTCCATGT
22402 P C S ATGACGTGGCAGACGCTATAACTCAGTGTTCGATY
22402 P T S CGCGCCGAGGACTATAACTCAGTGTTCGATCY
22402 T C S CCTTGATCGAACACTGAGTTATAGCCATGGAAGGGGTATCCTTGGACCTGCAAAGTCAG
22402 T T S CCTTGATCGAACACTGAGTTATAGTCATGGAAGGGGTATCCTTGGACCTGCAAAGTCAG
GGGGAAATTGAGGCCCAGAGAGGTGCAGTGCTCTGCCCTTGATCGAACACTGAGTTATAG[CT]CATGGAAGGGGTATCCTTGGACCTGCAAAGTCAGCATT
22402 IS [CT] ACTCATCTGAATTCTGCCTCTG
22428 I S GATTCTCCTGCCTCAGCTTCCTGAATAGCTGGAATTACT
22428 P T S CGCGCCGAGGAGGCGTGCACCACY
22428 P C S ATGACGTGGCAGACGGGCGTGCACCAY
22428 T T S CTTGGTGGTGCACGCCTGTAATTCCAGCTATTCAGGAAGCTGAGGCAGGAGAATCAC
22428 T C S CTTGGTGGTGCACGCCCGTAATTCCAGCTATTCAGGAAGCTGAGGCAGGAGAATCAC
AGGGTGAAACCCCGTCTCTGCTGAAAATACAAAAATTAGCTGGGCTTGGTGGTGCACGCC[TC]GTAATTCCAGCTATTCAGGAAGCTGAGGCAGGAGAATC
22428 IS [TC] ACTTGAACCTGGGAGGTGGAGG
22431 I A GGCTTCTGAGTTTATGTAGGAGTCATCCTTCTCTTAAAATTTGC
22431 P T A CGCGCCGAGGTCTTCTCCCATGATTCTGTY
22431 P G A ATGACGTGGCAGACGCTTCTCCCATGATTCTGY
22431 T T A ATATACAGAATCATGGGAGAAGACAAATTTTAAGAGAAGGATGACTCCTACATAAACTCAGAAGCCAT
22431 T G A ATATACAGAATCATGGGAGAAGCCAAATTTTAAGAGAAGGATGACTCCTACATAAACTCAGAAGCCAT
TTTTTTCTTCACATTATGGCTTCTGAGTTTATGTAGGAGTCATCCTTCTCTTAAAATTTG[TG]CTTCTCCCATGATTCTGTATATTTTTTTCTTTTTTAATGTCCC
22431 IS [TG] AAGTTTACTTCCATCTG
22451 I S CTCATTTTAGTGGGGTTTGGGGATGAAGTACTGATAAATATAGA
22451 P A S CGCGCCGAGGTGCAGTACACCATATTTAGTTY
22451 P G S ATGACGTGGCAGACCGCAGTACACCATATTTAGTY
22451 T A S TGTCAACTAAATATGGTGTACTGCACTATATTTATCAGTACTTCATCCCCAAACCCCACTAAAATGAGAA
22451 T G S TGTCAACTAAATATGGTGTACTGCGCTATATTTATCAGTACTTCATCCCCAAACCCCACTAAAATGAGAA
GGAGGTAATAAAAGCAGAAGACAGCTTTAAAAATTATGTCAACTAAATATGGTGTACTGC[AG]CTATATTTATCAGTACTTCATCCCCAAACCCCACTAAAATG
22451 IS [AG] AGAATGAATGAATATAAAA
22452 I A TGTTTAAGCCTCCTTGACTAGTAGATTTTTACCCTTTACCACTGCT
22452 P A A CGCGCCGAGGATGTCTGTGTGGCTTGY
22452 P C A ATGACGTGGCAGACCTGTCTGTGTGGCTTGY
22452 T A A CCTCCAAGCCACACAGACATGCAGTGGTAAAGGGTAAAAATCTACTAGTCAAGGAGGCTTAAACACA
22452 T C A CCTCCAAGCCACACAGACAGGCAGTGGTAAAGGGTAAAAATCTACTAGTCAAGGAGGCTTAAACACA
ATTGGCCAAACGCTGTGTTTAAGCCTCCTTGACTAGTAGATTTTTACCCTTTACCACTGC[AC]TGTCTGTGTGGCTTGGAGGCTGCTATCACACCACTCAGAA
22452 IS [AC] AGTTTATGTTTTTGTCCTAT
22453 I S ACATGTATCCCTGGCAGTCTGGAAGACTTGT
22453 P C S ATGACGTGGCAGACGTGCATCCTTGCTGGY
22453 P G S CGCGCCGAGGCTGCATCCTTGCTGGY
22453 T C S CACTCCAGCAAGGATGCACCAAGTCTTCCAGACTGCCAGGGATACATGTAA
22453 T G S CACTCCAGCAAGGATGCAGCAAGTCTTCCAGACTGCCAGGGATACATGTAA
TGCTCATTCGGAGACTAGCAGCTTGCTTGTTCCCTTCTCAATCACTCCAGCAAGGATGCA[CG]CAAGTCTTCCAGACTGCCAGGGATACATGTAATTTTCAT
22453 IS [CG] GTCTGGCTTCCTAAGAGTTGC
22464 I S GGTGTCTCGCTTGGTCCCCTCTCCTGAC
22464 P A S CGCGCCGAGGTGCCCTCCCCATGY
22464 P C S ATGACGTGGCAGACGGCCCTCCCCATGY
22464 T A S TGTCCATGGGGAGGGCATCAGGAGAGGGGACCAAGCGAGACACCCT
22464 T C S TGTCCATGGGGAGGGCCTCAGGAGAGGGGACCAAGCGAGACACCCT
GAAGGAGTGGCTTGCCTAGTGGCTGTCGTGCTGCACTGCACCTGTGTCCATGGGGAGGGC[AC]TCAGGAGAGGGGACCAAGCGAGACACCCTCGGGGCC
22464 IS [AC] TAGCTTTGCCCTCCTCCACCGGAA
22483 I S GGACCAGAGGTGACATCCCCACCTCTTCTT
22483 P G S CGCGCCGAGGCCCTGACTCCCCAAATY
22483 P C S ATGACGTGGCAGACGCCTGACTCCCCAAAY
22483 T G S TGAAATTTGGGGAGTCAGGGAGAAGAGGTGGGGATGTCACCTCTGGTCCCC
22483 T C S TGAAATTTGGGGAGTCAGGCAGAAGAGGTGGGGATGTCACCTCTGGTCCCC
CTGGGATGAGAAGTCAGGGTTATAGAGTCAGAGTCATCATCTGAAATTTGGGGAGTCAGG[GC]AGAAGAGGTGGGGATGTCACCTCTGGTCCCCACACCT
22483 IS [GC] GGTCTAAGTCCCCATGCTGATCT
22522 I A CCACCGAGGGCCGAAAAAGAGCTCAAGAAAGT
22522 P A A CGCGCCGAGGAACAAGGAAGGTGAGAAGAY
22522 P G A ATGACGTGGCAGACGACAAGGAAGGTGAGAAGY
22522 T A A GGGCTCTTCTCACCTTCCTTGTTCTTTCTTGAGCTCTTTTTCGGCCCTCGGTGGGA
22522 T G A GGGCTCTTCTCACCTTCCTTGTCCTTTCTTGAGCTCTTTTTCGGCCCTCGGTGGGA

FIGURE 129E



				GGCCCAGAAACCAGCTCCTCCTCCCAGTCCCACCGAGGGCCGAAAAAGAGCTCAAGAAAG[AG]ACAAGGAAGGTGAGAAGAGCCCCGCCCTCCGCAAATA	
22522	IS	[AG]		CCAAGACCAAGGGACGCCGAGCA	
22541	I		A	TGGCAGTGGCCGCGGGGTC	
22541	P	T	A	CGCGCCGAGGTGGAATCCCGCTTCTY	
22541	P	G	A	ATGACGTGGCAGACGGGAATCCCGCTTCTY	
22541	T	T	A	GAGGAGAAGCGGGATTCCAACCCCGCGGCCACTGCCAAA	
22541	T	G	A	GAGGAGAAGCGGGATTCCCACCCCGCGGCCACTGCCAAA	
				CTTCGCCCCGTCGTCAACTTTGAGCTGGAGGAGAAGCAACTTTGGCAGTGGCCGCGGGGT[TG]GGAATCCCGCTTCTCCTCGGCAGCAGTAGGCTCGCAA	
22541	IS	[TG]		GTCGCTGGGGTTAGGTGGGGCAA	
22545	I		A	TCTCTCAGGCCTCTTTTATAAGGGCACTAATCCTATTCATGAAAGATCC	
22545	P	T	A	CGCGCCGAGGTGCCCTCATGACATAATCY	
22545	P	A	A	ATGACGTGGCAGACAGCCCTCATGACATAATCAY	
22545	T	T	A	AAGGTGATTATGTCATGAGGGCAGATCTTTCATGAATAGGATTAGTGCCCTTATAAAAGAGGCCTGAGAGAGA	
22545	T	A	A	AAGGTGATTATGTCATGAGGGCTGATCTTTCATGAATAGGATTAGTGCCCTTATAAAAGAGGCCTGAGAGAGA	
				GGGCAAGAAATCTCTCTCAGGCCTCTTTTATAAGGGCACTAATCCTATTCATGAAAGATC[TA]GCCCTCATGACATAATCACCTTCCTAATGCCTTAGGAGTT	
22545	IS	[TA]		AGGATTTCAGCATACAAATG	
22549	I		A	GGGTTGGTGCTCAGGTGGGCATCTCTTACT	
22549	P	G	A	ATGACGTGGCAGACGGTGACAAGGACGTGY	
22549	P	A	A	CGCGCCGAGGAGTGACAAGGACGTGGY	
22549	T	G	A	CTTCCCACGTCCTTGTCACCGTAAGAGATGCCCACCTGAGCACCAACCCCA	
22549	T	A	A	CTTCCCACGTCCTTGTCACTGTAAGAGATGCCCACCTGAGCACCAACCCCA	
				GGGGCTGGAAGACAAAGGGGAAGATAACCTGGGGTTGGTGCTCAGGTGGGCATCTCTTAC[GA]GTGACAAGGACGTGGGAAGGAATGTGGCACTCACAAT	
22549	IS	[GA]		GGTGTCAGAGGTGAGTACAATCA	
22561	I		S	CAATGAGGGCAGGAGCCAGGTGGGT	
22561	P	C	S	ATGACGTGGCAGACGACACAGCCCATAACAGY	
22561	P	T	S	CGCGCCGAGGAACACAGCCCATAACAGY	
22561	T	C	S	TAGCCTGTTATGGGCTGTGTCCCCACCTGGCTCCTGCCCTCATTGTT	
22561	T	T	S	TAGCCTGTTATGGGCTGTGTTCCCACCTGGCTCCTGCCCTCATTGTT	
				TCACCCCAGTGTTCTCTTTGTGCCCTAGACTGGGTTTCACTAGCCTGTTATGGGCTGTGT[CT]CCCACCTGGCTCCTGCCCTCATTGTTGACTGAGCTCAGA	
22561	IS	[CT]		GTAAATAGCCCTGGCCCCTCC	
22566	I		A	CTGTGGTGCCTGCCACATTTCCAAGTAGAGAAAAAAGT	
22566	P	A	A	CGCGCCGAGGATCGGGAAAAAAACACCAY	
22566	P	C	A	ATGACGTGGCAGACCTCGGGAAAAAAACACCAY	
22566	T	A	A	ATTTTGGTGTTTTTTTCCCGATCTTTTTTCTCTACTTGGAAATGTGGCAGGCACCACAGAA	
22566	T	C	A	ATTTTGGTGTTTTTTTCCCGAGCTTTTTTCTCTACTTGGAAATGTGGCAGGCACCACAGAA	
				AAAAGGCACGGGCACACTGTCTTCTGTGGTGCCTGCCACATTTCCAAGTAGAGAAAAAAG[AC]TCGGGAAAAAAACACCAAAATACACCTCCACAGACACGG	
22566	IS	[AC]		GGATGCAAACAACTTTTCCTT	
22622	I		A	CAGGTTCAGGGAGTGGGGAGGAAACTCATACAAAT	
22622	P	A	A	CGCGCCGAGGATTAATTGTAAGACTGTGTGATAGY	
22622	P	G	A	ATGACGTGGCAGACGTTAATTGTAAGACTGTGTGATAGY	
22622	T	A	A	AGCCCTATCACACAGTCTTACAATTAATTTTGTATGAGTTTCCTCCCCACTCCCTGAACCTGAT	
22622	T	G	A	AGCCCTATCACACAGTCTTACAATTAACTTTGTATGAGTTTCCTCCCCACTCCCTGAACCTGAT	
				TCCCTTTGCATCATTAGGGATATAATCAGGTTCAGGGAGTGGGGAGGAAACTCATACAAA[AG]TTAATTGTAAGACTGTGTGATAGGGCTGGGCGCAGTGG	
22622	IS	[AG]		CCCACAACTGTTAATTCCAGCA	
22655	I		S	TCACAACCTCCATTTTCAGCAACATCCCATCTACTGGA	
22655	P	G	S	ATGACGTGGCAGACCGCTTCCTGGTCGAY	
22655	P	A	S	CGCGCCGAGGTGCTTCCTGGTCGAGY	
22655	T	G	S	GTATCTCGACCAGGAAGCGCCAGTAGATGGGATGTTGCTGAAAATGGAGGTTGTGAAT	
22655	T	A	S	GTATCTCGACCAGGAAGCACCAGTAGATGGGATGTTGCTGAAAATGGAGGTTGTGAAT	
				GCCGGGTGAGGCCCAAAACAGAGCAGCAGTTTCAGGAAACTTGTATCTCGACCAGGAAGC[GA]CCAGTAGATGGGATGTTGCTGAAAATGGAGGTTGTGAA	
22655	IS	[GA]		TGAAGCATTCCAGGAGGGAGCT	PABPN1
22656	I		A	ACAAAGTCTGACAACAAAATGGGGACAGGATGGAAAAGAAT	
22656	P	G	A	ATGACGTGGCAGACGTCTCTTTAGAGTCATCAGACY	
22656	P	C	A	CGCGCCGAGGCTCTCTTTAGAGTCATCAGACY	
22656	T	G	A	GCAAGTCTGATGACTCTAAAGAGAGTTCTTTTCCATCCTGTCCCCATTTTGTTGTCAGACTTTGTGG	
22656	T	C	A	GCAAGTCTGATGACTCTAAAGAGAGTTCTTTTCCATCCTGTCCCCATTTTGTTGTCAGACTTTGTGG	
				TCTTCTCTCTGAGAATGTCCACAAAGTCTGACAACAAAATGGGGACAGGATGGAAAAGAA[GC]TCTCTTTAGAGTCATCAGACTTGCATTCAAGTCTTGGCTC	
22656	IS	[GC]		TCCCACTTGTTGTCATGGGC	
22666	I		A	CCTGGTGGAATTTAAGTCTATCAGTTTTCTGTACACATGAAAAGT	
22666	P	G	A	ATGACGTGGCAGACGAAGCTATTTACAACTGGCAY	
22666	P	C	A	CGCGCCGAGGCAAGCTATTTACAACTGGCAY	
22666	T	G	A	GGAATGCCAGTTGTAAATAGCTTCCTTTTCATGTGTACAGAAAACTGATAGACTTAAATTCCACCAGGAA	
22666	T	C	A	GGAATGCCAGTTGTAAATAGCTTGCTTTTCATGTGTACAGAAAACTGATAGACTTAAATTCCACCAGGAA	
				GGTAACCACTCTATTTCCTGGTGGAATTTAAGTCTATCAGTTTTCTGTACACATGAAAAG[GC]AAGCTATTTACAACTGGCATTCCTGTACGAAATGTACAAAG	
22666	IS	[GC]		TTCTCTAGCAGAGAGCTCT	
22676	I		A	GCACAAGGTGACAGGAAGAAAGAAGAATGAAACAATATTTATTAACAGCAAGAGA	
22676	P	C	A	ATGACGTGGCAGACCCTCCTCCTGTCCTCY	
22676	P	T	A	CGCGCCGAGGTCTCCTCCTGTCCTCAY	
22676	T	C	A	TTCTTGAGGACAGGAGGAGGCTCTTGCTGTTAATAAATATTGTTTCATTCTTCTTTCTTCCTGTCACCTTGTGCCA	
22676	T	T	A	TTCTTGAGGACAGGAGGAGACTCTTGCTGTTAATAAATATTGTTTCATTCTTCTTTCTTCCTGTCACCTTGTGCCA	
				GTCCTGGCACAAGGTGACAGGAAGAAAGAAGAATGAAACAATATTTATTAACAGCAAGAG[CT]CTCCTCCTGTCCTCAAGAACACCTCCTCCCTTGCCATCT	
22676	IS	[CT]		GAATGGGGCCATTGGCACGTG	
22688	I		A	CCTGTGAACTCCATGGGGTCGCCAGATAAT	
22688	P	G	A	ATGACGTGGCAGACGCGCAATCCCGGTY	
22688	P	A	A	CGCGCCGAGGACGCAATCCCGGTY	
22688	T	G	A	GTCCACCGGGATTGCGCTTATCTGGCGACCCCATGGAGTTCACAGGCT	
22688	T	A	A	GTCCACCGGGATTGCGTTTATCTGGCGACCCCATGGAGTTCACAGGCT	
				CTCAGCCCAACGTTAGATTGGTTTTTCCGAGCCTGTGAACTCCATGGGGTCGCCAGATAA[GA]CGCAATCCCGGTGGACCAACGCCCAGGACAGACGCTAC	
22688	IS	[GA]		GTACCAACCCTGTGTCAAGCCG	
22702	I		A	TGGGATTGCTGGCCAGCCCCAGC	
22702	P	A	A	CGCGCCGAGGACCACTGGTCATGCAY	
22702	P	T	A	ATGACGTGGCAGACTCCACTGGTCATGCAY	
22702	T	A	A	TGTCTGCATGACCAGTGGTCTGGGGCTGGCCAGCAATCCCAGG	
22702	T	T	A	TGTCTGCATGACCAGTGGACTGGGGCTGGCCAGCAATCCCAGG	
				AAGAAATGGGCCCTCGGCACTGGGCTTTGGTGTGGCCCTGGGATTGCTGGCCAGCCCCAG[AT]CCACTGGTCATGCAGACATGGCTATTCAGCAAAGCTG	
22702	IS	[AT]		GACATAGTCCAAGGCAAGGCCCC	
22794	I		S	CTGACCCCGAGCGAGAGACCTGGTCT	
22794	P	C	S	ATGACGTGGCAGACGGGAGTCCGGCGY	
22794	P	G	S	CGCGCCGAGGCGGAGTCCGGCGY	
22794	T	C	S	TAGCCGCCGGACTCCCGACCAGGTCTCTCGCTCGGGGTCAGAA	
22794	T	G	S	TAGCCGCCGGACTCCGGACCAGGTCTCTCGCTCGGGGTCAGAA	
				CCTCTTTAACGCACAGTCGAGCAACAGGCCCCTTGCAATCAACTCTAGCCGCCGGACTCC[CG]GACCAGGTCTCTCGCTCGGGGTCAGAAGGAGGCGCGG	
22794	IS	[CG]		GAGGGAGGGCGGCGGCGGCGGCG	
22797	I		A	CATGGATGCTCTTGACCAATTTCAATGACAAATCACCATAATTTGTAAAGTCA	
22797	P	C	A	ATGACGTGGCAGACCTGGTGGTACTGAACAGTY	
22797	P	T	A	CGCGCCGAGGTTGGTGGTACTGAACAGTY	
22797	T	C	A	AATGACTGTTCAGTACCACCAGGACTTTACAAATTATGGTGATTTGTCATTGAAATTGGTCAAGAGCATCCATGCA	
22797	T	T	A	AATGACTGTTCAGTACCACCAAGACTTTACAAATTATGGTGATTTGTCATTGAAATTGGTCAAGAGCATCCATGCA	

FIGURE 129E

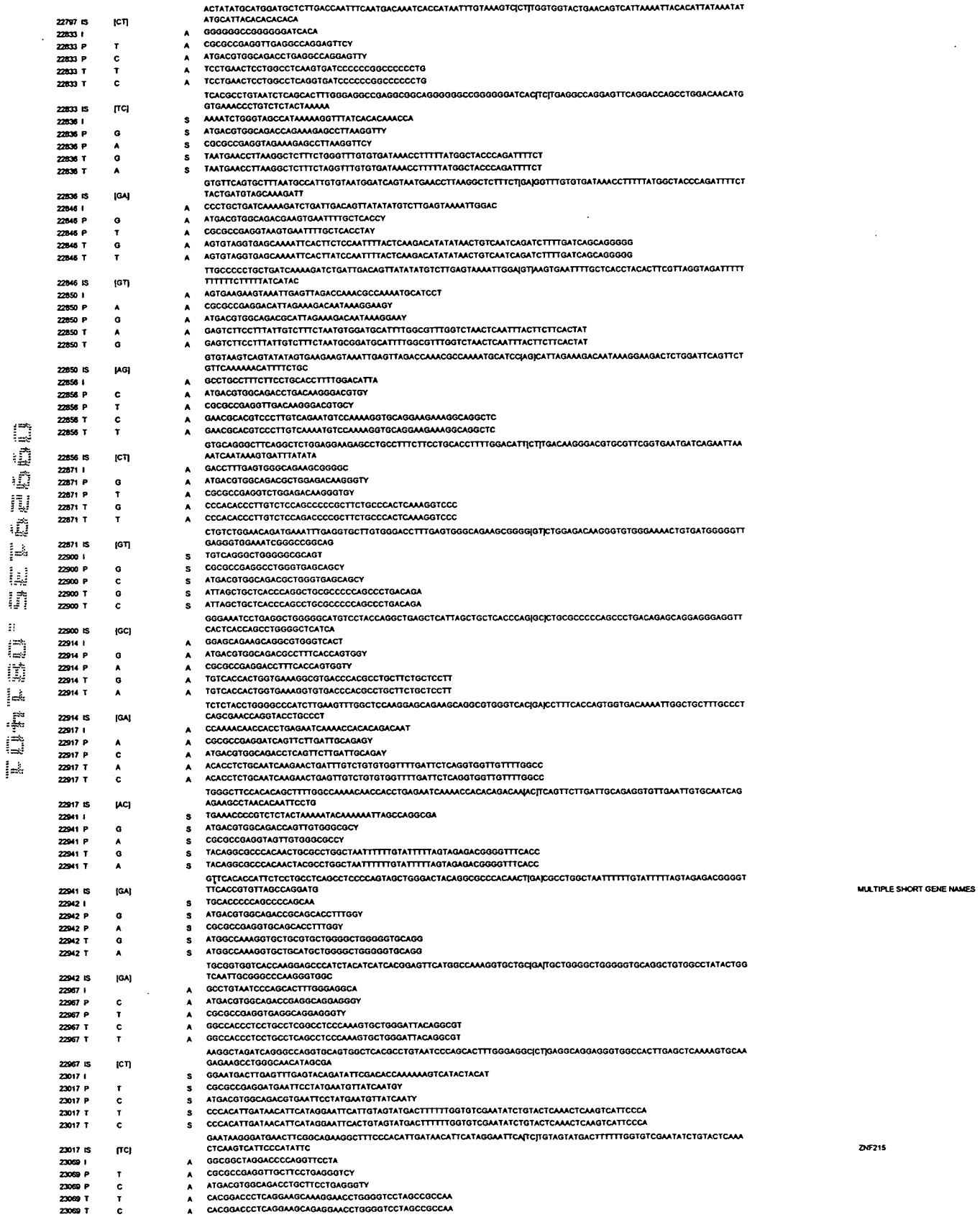
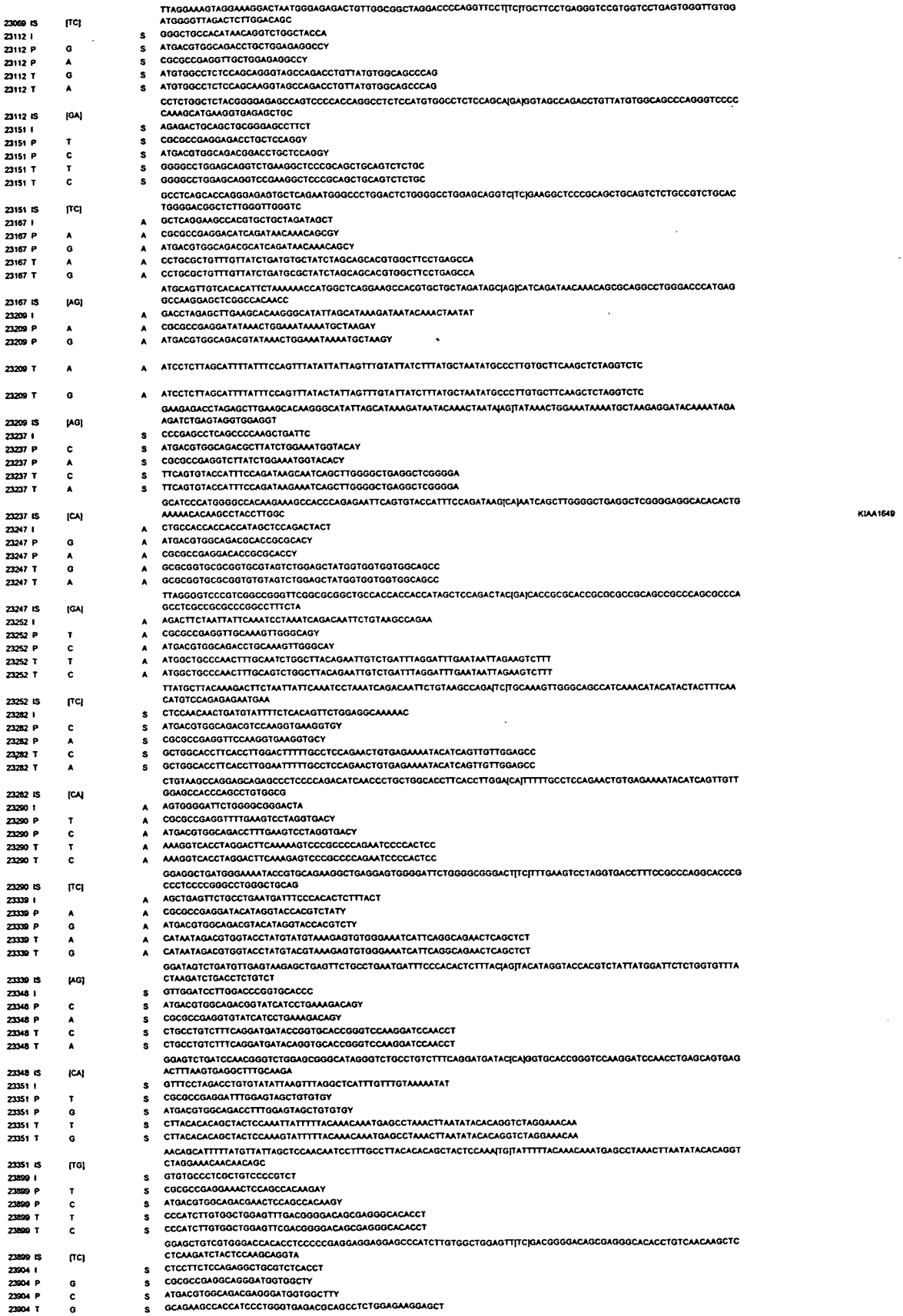

ACTATATGCATGGATGCTCTTGACCAATTTCAATGACAAATCACCATAATTTGTAAAGTC[CT]TGGTGGTACTGAACAGTCATTAAAATTACACATTATAAATAT
22797 IS [CT] ATGCATTACACACACACA
22833 I A GGGGGGCCGGGGGGATCACA
22833 P T A CGCGCCGAGGTTGAGGCCAGGAGTTCY
22833 P C A ATGACGTGGCAGACCTGAGGCCAGGAGTTY
22833 T T A TCCTGAACTCCTGGCCTCAAGTGATCCCCCCGGCCCCCCTG
22833 T C A TCCTGAACTCCTGGCCTCAGGTGATCCCCCCGGCCCCCCTG
TCACGCCTGTAATCTCAGCACTTTGGGAGGCCGAGGCGGCAGGGGGGCCGGGGGGATCAC[TC]TGAGGCCAGGAGTTCAGGACCAGCCTGGACAACATG
22833 IS [TC] GTGAAACCCTGTCTCTACTAAAAA
22836 I S AAAATCTGGGTAGCCATAAAAAGGTTTATCACACAAACCA
22836 P G S ATGACGTGGCAGACCAGAAAGAGCCTTAAGGTTY
22836 P A S CGCGCCGAGGTAGAAAGAGCCTTAAGGTTCY
22836 T G S TAATGAACCTTAAGGCTCTTTCTGGGTTTGTGTGATAAACCTTTTTATGGCTACCCAGATTTTCT
22836 T A S TAATGAACCTTAAGGCTCTTTCTAGGTTTGTGTGATAAACCTTTTTATGGCTACCCAGATTTTCT
GTGTTCAGTGCTTTAATGCCATTGTGTAATGGATCAGTAATGAACCTTAAGGCTCTTTCT[GA]GGTTTGTGTGATAAACCTTTTTATGGCTACCCAGATTTTCT
22836 IS [GA] TACTGATGTAGCAAAGATT
22846 I A CCCTGCTGATCAAAAGATCTGATTGACAGTTATATATGTCTTGAGTAAAATTGGAC
22846 P G A ATGACGTGGCAGACGAAGTGAATTTTGCTCACCY
22846 P T A CGCGCCGAGGTAAGTGAATTTTGCTCACCTAY
22846 T G A AGTGTAGGTGAGCAAAATTCACTTCTCCAATTTTACTCAAGACATATATAACTGTCAATCAGATCTTTTGATCAGCAGGGGG
22846 T T A AGTGTAGGTGAGCAAAATTCACTTATCCAATTTTACTCAAGACATATATAACTGTCAATCAGATCTTTTGATCAGCAGGGGG
TTGCCCCCTGCTGATCAAAAGATCTGATTGACAGTTATATATGTCTTGAGTAAAATTGGA[GT]AAGTGAATTTTGCTCACCTACACTTCGTTAGGTAGATTTTT
22846 IS [GT] TTTTTTCTTTTTATCATAC
22850 I A AGTGAAGAAGTAAATTGAGTTAGACCAAACGCCAAAATGCATCCT
22850 P A A CGCGCCGAGGACATTAGAAAGACAATAAAGGAAGY
22850 P G A ATGACGTGGCAGACGCATTAGAAAGACAATAAAGGAAY
22850 T A A GAGTCTTCCTTTATTGTCTTTCTAATGTGGATGCATTTTGGCGTTTGGTCTAACTCAATTTACTTCTTCACTAT
22850 T G A GAGTCTTCCTTTATTGTCTTTCTAATGCGGATGCATTTTGGCGTTTGGTCTAACTCAATTTACTTCTTCACTAT
GTGTAAGTCAGTATATAGTGAAGAAGTAAATTGAGTTAGACCAAACGCCAAAATGCATCC[AG]CATTAGAAAGACAATAAAGGAAGACTCTGGATTCAGTTCT
22850 IS [AG] GTTCAAAAAACATTTTCTGC
22856 I A GCCTGCCTTTCTTCCTGCACCTTTTGGACATTA
22856 P C A ATGACGTGGCAGACCTGACAAGGGACGTGY
22856 P T A CGCGCCGAGGTTGACAAGGGACGTGCY
22856 T C A GAACGCACGTCCCTTGTCAGAATGTCCAAAAGGTGCAGGAAGAAAGGCAGGCTC
22856 T T A GAACGCACGTCCCTTGTCAAAATGTCCAAAAGGTGCAGGAAGAAAGGCAGGCTC
GTGCAGGGCTTCAGGCTCTGGAGGAAGAGCCTGCCTTTCTTCCTGCACCTTTTGGACATT[CT]TGACAAGGGACGTGCGTTCGGTGAATGATCAGAATTAA
22856 IS [CT] AATCAATAAAGTGATTTATATA
22871 I A GACCTTTGAGTGGGCAGAAGCGGGGC
22871 P G A ATGACGTGGCAGACGCTGGAGACAAGGGTY
22871 P T A CGCGCCGAGGTCTGGAGACAAGGGTGY
22871 T G A CCCACACCCTTGTCTCCAGCCCCCGCTTCTGCCCACTCAAAGGTCCC
22871 T T A CCCACACCCTTGTCTCCAGACCCCGCTTCTGCCCACTCAAAGGTCCC
CTGTCTGGAACAGATGAAATTTGAGGTGCTTGTGGGACCTTTGAGTGGGCAGAAGCGGGG[GT]CTGGAGACAAGGGTGTGGGAAAACTGTGATGGGGGTT
22871 IS [GT] GAGGGTGGAAATCGGGCCGGCAG
22900 I S TGTCAGGGCTGGGGGCGCAGT
22900 P G S CGCGCCGAGGCCTGGGTGAGCAGCY
22900 P C S ATGACGTGGCAGACGCTGGGTGAGCAGCY
22900 T G S ATTAGCTGCTCACCCAGGCTGCGCCCCCAGCCCTGACAGA
22900 T C S ATTAGCTGCTCACCCAGCCTGCGCCCCCAGCCCTGACAGA
GGGAAATCCTGAGGCTGGGGGCATGTCCTACCAGGCTGAGCTCATTAGCTGCTCACCCAG[GC]CTGCGCCCCCAGCCCTGACAGAGCAGGAGGGAGGTT
22900 IS [GC] CACTCACCAGCCTGGGGCTCATCA
22914 I A GGAGCAGAAGCAGGCGTGGGTCACT
22914 P G A ATGACGTGGCAGACGCCTTTCACCAGTGGY
22914 P A A CGCGCCGAGGACCTTTCACCAGTGGTY
22914 T G A TGTCACCACTGGTGAAAGGCGTGACCCACGCCTGCTTCTGCTCCTT
22914 T A A TGTCACCACTGGTGAAAGGTGTGACCCACGCCTGCTTCTGCTCCTT
TCTCTACCTGGGGCCCATCTTGAAGTTTGGCTCCAAGGAGCAGAAGCAGGCGTGGGTCAC[GA]CCTTTCACCAGTGGTGACAAAATTGGCTGCTTTGCCCT
22914 IS [GA] CAGCGAACCAGGTACCTGCCCT
22917 I A CCAAAACAACCACCTGAGAATCAAAACCACACAGACAAT
22917 P A A CGCGCCGAGGATCAGTTCTTGATTGCAGAGY
22917 P C A ATGACGTGGCAGACCTCAGTTCTTGATTGCAGAY
22917 T A A ACACCTCTGCAATCAAGAACTGATTTGTCTGTGTGGTTTTGATTCTCAGGTGGTTGTTTTGGCC
22917 T C A ACACCTCTGCAATCAAGAACTGAGTTGTCTGTGTGGTTTTGATTCTCAGGTGGTTGTTTTGGCC
TGGGCTTCCACACAGCTTTTGGCCAAAACAACCACCTGAGAATCAAAACCACACAGACAA[AC]TCAGTTCTTGATTGCAGAGGTGTTGAATTGTGCAATCAG
22917 IS [AC] AGAAGCCTAACACAATTCCTG
22941 I S TGAAACCCCGTCTCTACTAAAAATACAAAAAATTAGCCAGGCGA
22941 P G S ATGACGTGGCAGACCAGTTGTGGGCGCY
22941 P A S CGCGCCGAGGTAGTTGTGGGCGCCY
22941 T G S TACAGGCGCCCACAACTGCGCCTGGCTAATTTTTTGTATTTTTAGTAGAGACGGGGTTTCACC
22941 T A S TACAGGCGCCCACAACTACGCCTGGCTAATTTTTTGTATTTTTAGTAGAGACGGGGTTTCACC
G[T]CACACCATTCTCCTGCCTCAGCCTCCCCAGTAGCTGGGACTACAGGCGCCCACAACT[GA]CGCCTGGCTAATTTTTTGTATTTTTAGTAGAGACGGGGT
22941 IS [GA] TTCACCGTGTTAGCCAGGATG
22942 I S TGCACCCCCAGCCCCAGCAA
22942 P G S ATGACGTGGCAGACCGCAGCACCTTTGGY
22942 P A S CGCGCCGAGGTGCAGCACCTTTGGY
22942 T G S ATGGCCAAAGGTGCTGCGTGCTGGGGCTGGGGGTGCAGG
22942 T A S ATGGCCAAAGGTGCTGCATGCTGGGGCTGGGGGTGCAGG
TGCGGTGGTCACCAAGGAGCCCATCTACATCATCACGGAGTTCATGGCCAAAGGTGCTGC[GA]TGCTGGGGCTGGGGGTGCAGGCTGTGGCCTATACTGG
22942 IS [GA] TCAATTGCGGGCCCAAGGGTGGC
22967 I A GCCTGTAATCCCAGCACTTTGGGAGGCA
22967 P C A ATGACGTGGCAGACCGAGGCAGGAGGGY
22967 P T A CGCGCCGAGGTGAGGCAGGAGGGTY
22967 T C A GGCCACCCTCCTGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGT
22967 T T A GGCCACCCTCCTGCCTCAGCCTCCCAAAGTGCTGGGATTACAGGCGT
AAGGCTAGATCAGGGCCAGGTGCAGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGC[CT]GAGGCAGGAGGGTGGCCACTTGAGCTCAAAAGTGCAA
22967 IS [CT] GAGAAGCCTGGGCAACATAGCGA
23017 I S GGAATGACTTGAGTTTGAGTACAGATATTCGACACCAAAAAAGTCATACTACAT
23017 P T S CGCGCCGAGGATGAATTCCTATGAATGTTATCAATGY
23017 P C S ATGACGTGGCAGACGTGAATTCCTATGAATGTTATCAATY
23017 T T S CCCACATTGATAACATTCATAGGAATTCATTGTAGTATGACTTTTTTGGTGTCGAATATCTGTACTCAAACTCAAGTCATTCCCA
23017 T C S CCCACATTGATAACATTCATAGGAATTCACTGTAGTATGACTTTTTTGGTGTCGAATATCTGTACTCAAACTCAAGTCATTCCCA
GAATAAGGGATGAACTTCGGCAGAAGGCTTTCCCACATTGATAACATTCATAGGAATTCA[TC]TGTAGTATGACTTTTTTGGTGTCGAATATCTGTACTCAAA
23017 IS [TC] CTCAAGTCATTCCCATATTC
23069 I A GGCGGCTAGGACCCCAGGTTCCTA
23069 P T A CGCGCCGAGGTTGCTTCCTGAGGGTCY
23069 P C A ATGACGTGGCAGACCTGCTTCCTGAGGGTY
23069 T T A CACGGACCCTCAGGAAGCAAAGGAACCTGGGGTCCTAGCCGCCAA
23069 T C A CACGGACCCTCAGGAAGCAGAGGAACCTGGGGTCCTAGCCGCCAA
MULTIPLE SHORT GENE NAMES
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FIGURE 129E



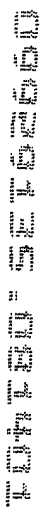
KIAA1649

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FIGURE 129E

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23904 T   C     S  GCAGAAGCCACCATCCCTCGGTGAGACGCAGCCTCTGGAGAAGGAGCT
                    CTCAGCATGACGGCCGGCCACAGTTACAGAGAGGAGGGGGCAGCAGAAGCCACCATCCCT[GC]GGTGAGACGCAGCCTCTGGAGAAGGAGCTGGGTTTT
23904 IS  [GC]      ACCGACCTGGCGAGCCCACGAGCC
23905 I       S  GGCTCGTGGGCTCGTGGGCTCT
23905 P   C   S  ATGACGTGGCAGACGCCAGGTCGGTAAAACY
23905 P   T   S  CGCGCCGAGGACCAGGTCGGTAAAACCY
23905 T   C   S  GCTGGGTTTTACCGACCTGGCGAGCCCACGAGCCCACGAGCCCA
23905 T   T   S  GCTGGGTTTTACCGACCTGGTGAGCCCACGAGCCCACGAGCCCA
                    AGCCACCATCCCTGGGTGAGACGCAGCCTCTGGAGAAGGAGCTGGGTTTTACCGACCTGG[CT]GAGCCCACGAGCCCACGAGCCCACATGAGCTCAGTAA
23905 IS  [CT]      GATGCTGCATGAATGACCTTTCC
23975 I       S  GGCACCTCCAAGGAAACCCCCCTCTGA
23975 P   A   S  CGCGCCGAGGTTGACCCCTCCCTGY
23975 P   G   S  ATGACGTGGCAGACCTGACCCCTCCCTGY
23975 T   A   S  GGGGCAGGGAGGGGTCAACAGAGGGGGGTTTCCTTGGAGGTGCCTT
23975 T   G   S  GGGGCAGGGAGGGGTCAGCAGAGGGGGGTTTCCTTGGAGGTGCCTT
                    TCCGGCCCTGCCTGTCCCGAACCATGGGATGAAGAAGCACCTGGGGGCAGGGAGGGGTCA[AG]CAGAGGGGGGTTTCCTTGGAGGTGCCTTGGGATCTC
23975 IS  [AG]      TGGCCTCCATACTTTGGGGGTAGG
24011 I       A  GAAAGCAAAGCGAGGCTGGATCCCAGCT
24011 P   A   A  CGCGCCGAGGATCCTTCCTCGAGCCY
24011 P   G   A  ATGACGTGGCAGACGTCCTTCCTCGAGCCY
24011 T   A   A  CAGGGGCTCGAGGAAGGATGCTGGGATCCAGCCTCGCTTTGCTTTCAT
24011 T   G   A  CAGGGGCTCGAGGAAGGACGCTGGGATCCAGCCTCGCTTTGCTTTCAT
                    CACCTCTGGCACAGGTTGGTGGTTCTGTCAGATGAAAGCAAAGCGAGGCTGGATCCCAGC[AG]TCCTTCCTCGAGCCCCTGGACAGTCCTGACGAGACGG
24011 IS  [AG]      AAGACCCTGAGCCCAACTATGCA
24019 I       A  TCTCCACCAGCAGCAGCAAAGGATGCTTTTTA
24019 P   C   A  ATGACGTGGCAGACCAGATGTGGCTTTCAAAAGY
24019 P   T   A  CGCGCCGAGGTAGATGTGGCTTTCAAAAGCY
24019 T   C   A  GCTGGCTTTTGAAAGCCACATCTGAAAAAGCATCCTTTGCTGCTGCTGGTGGAGAAG
24019 T   T   A  GCTGGCTTTTGAAAGCCACATCTAAAAAAGCATCCTTTGCTGCTGCTGGTGGAGAAG
                    TGTGCCCTGAGGTTCCAGTCCCTTTCTCTTCTCCACCAGCAGCAGCAAAGGATGCTTTTT[CT]AGATGTGGCTTTCAAAAGCCAGCAGTCTACATCCATGAC
24019 IS  [CT]      ACCTTTTGGACGTCCAGCCAC
24038 I       A  CTTTGCACCACAGATCTAGCCGCGCGT
24038 P   G   A  ATGACGTGGCAGACGTCTTCCCGCCTCTGY
24038 P   A   A  CGCGCCGAGGATCTTCCCGCCTCTGY
24038 T   G   A  CCGGCAGAGGCGGGAAGACCGCGCGGCTAGATCTGTGGTGCAAAGGC
24038 T   A   A  CCGGCAGAGGCGGGAAGATCGCGCGGCTAGATCTGTGGTGCAAAGGC
                    GGATCCCAGGCCCCGCCTTCCATGACCTTCGGGCCTTTGCACCACAGATCTAGCCGCGCG[GA]TCTTCCCGCCTCTGCCGGGCCAACTATCAAGCCCCGC
24038 IS  [GA]      CCCCCACTGCCTATCACGCCCCG
24047 I       S  AGAACATTATTACAAGGAAAAGGCTGGATAAAAAGATTTGCCT
24047 P   T   S  CGCGCCGAGGATACTTACTGTCTCTACGAAGTY
24047 P   G   S  ATGACGTGGCAGACCTACTTACTGTCTCTACGAAGTY
24047 T   T   S  ATCCACTTCGTAGAGACAGTAAGTATGGCAAATCTTTTTATCCAGCCTTTTCCTTGTAATAATGTTCTCT
24047 T   G   S  ATCCACTTCGTAGAGACAGTAAGTAGGGCAAATCTTTTTATCCAGCCTTTTCCTTGTAATAATGTTCTCT
                    CTATATAGAAATAGCAGTTATTGAGTTATGATGAAATCCACTTCGTAGAGACAGTAAGTA[TG]GGCAAATCTTTTTATCCAGCCTTTTCCTTGTAATAATGTTC
24047 IS  [TG]      TCTAGAGGAAAACTGACTT
24085 I       S  ACACACATGGCGGGGTGGGCCT
24085 P   G   S  CGCGCCGAGGCTGAGTGGACAGGCCY
24085 P   C   S  ATGACGTGGCAGACGTGAGTGGACAGGCCY
24085 T   G   S  AGGGGGCCTGTCCACTCAGGGCCCACCCCGCCATGTGTGTTC
24085 T   C   S  AGGGGGCCTGTCCACTCACGGCCCACCCCGCCATGTGTGTTC
                    GGCGGCCTCGGGTCAGAGCTCAGATCTTGGCTCAGAAATCACAGGGGGCCTGTCCACTCA[GC]GGCCCACCCCGCCATGTGTGTTCCCAAGCTTCGCCAG
24085 IS  [GC]      GACACAGGGCCTGGCACTGCCAC
24138 I       A  GGTGGGAGCTGGGAGACAAGGAGCCT
24138 P   A   A  CGCGCCGAGGATCCCTTTCCTCAGCTTY
24138 P   G   A  ATGACGTGGCAGACGTCCCTTTCCTCAGCTY
24138 T   A   A  GAGGAAGCTGAGGAAAGGGATGGCTCCTTGTCTCCCAGCTCCCACCCT
24138 T   G   A  GAGGAAGCTGAGGAAAGGGACGGCTCCTTGTCTCCCAGCTCCCACCCT
                    TCCATGGGAGGCAGCAAGGAGGCTCCCCTAGCCAGGGTGGGAGCTGGGAGACAAGGAGCC[AG]TCCCTTTCCTCAGCTTCCTCCTGGGGGAGCCATGGG
24138 IS  [AG]      GGTCAGTCCCACAACAAGAGCTGG                                                                                KIAA0417
24142 I       S  GCACACCCCTCTAAACGGCCGCCT
24142 P   G   S  ATGACGTGGCAGACCCCTAACATCCATCTTTCCY
24142 P   T   S  CGCGCCGAGGACCTAACATCCATCTTTCCTY
24142 T   G   S  TATGAGGAAAGATGGATGTTAGGGGGCGGCCGTTTAGAGGGGTGTGCAC
24142 T   T   S  TATGAGGAAAGATGGATGTTAGGTGGCGGCCGTTTAGAGGGGTGTGCAC
                    GGGCTAGAGATGGGGCTGTTGCTCCCACCCTGCCCTGTATGAGGAAAGATGGATGTTAGG[GT]GGCGGCCGTTTAGAGGGGTGTGCACGTAGATGCACAG
24142 IS  [GT]      GCAGCCAACCTGAGTGAGTGCCC
24167 I       A  CAGCTGCGAGCCCTCCGTAGTGGT
24167 P   A   A  CGCGCCGAGGACTTACCACGACAGCAY
24167 P   C   A  ATGACGTGGCAGACCCTTACCACGACAGCAY
24167 T   A   A  GGGTTGCTGTCGTGGTAAGTCCACTACGGAGGGCTCGCAGCTGCC
24167 T   C   A  GGGTTGCTGTCGTGGTAAGGCCACTACGGAGGGCTCGCAGCTGCC
                    AGTCATTCTTTGCTAAAATGGAACAGAAGTGGTTAGGCAGCTGCGAGCCCTCCGTAGTGG[AC]CTTACCACGACAGCAACCCCCTCGTGTACCATTGAGGG
24167 IS  [AC]      AGAGGCATAGAGGCTGGTAGAG
24183 I       A  CCAGGGGTGTGCTGGAGGGTGGTAGT
24183 P   G   A  ATGACGTGGCAGACGGGTGAGAGCCTGCY
24183 P   A   A  CGCGCCGAGGAGGTGAGAGCCTGCY
24183 T   G   A  GGCAGCAGGCTCTCACCCCTACCACCCTCCAGCACACCCCTGGCA
24183 T   A   A  GGCAGCAGGCTCTCACCTCTACCACCCTCCAGCACACCCCTGGCA
                    ACACTTCACACTCACTCTGTGGCTCCGTGCCTGTGCCAGGGGTGTGCTGGAGGGTGGTAG[GA]GGTGAGAGCCTGCTGCCTTCTCCCCAGACGCGAGTGC
24183 IS  [GA]      TGGTGACGCACGGCATTAGCTTC
24206 I       S  AGAATCAGTGGTCTTATCATTGATAGTTCCTGGAGGGCCA
24206 P   A   S  CGCGCCGAGGTACTTGAGCAAAGCAGCY
24206 P   G   S  ATGACGTGGCAGACCACTTGAGCAAAGCAGCY
24206 T   A   S  CAAAGCTGCTTTGCTCAAGTAGGCCCTCCAGGAACTATCAATGATAAGACCACTGATTCTTA
24206 T   G   S  CAAAGCTGCTTTGCTCAAGTGGGCCCTCCAGGAACTATCAATGATAAGACCACTGATTCTTA
                    AATGACTTTTAAAAGTATTAATTTAAAAATCCAATACTGCCAAAGCTGCTTTGCTCAAGT[AG]GGCCCTCCAGGAACTATCAATGATAAGACCACTGATTCTTA
24206 IS  [AG]      CCTGGAAAACACTAGGGAA
24212 I       S  GCGCACACCTCTCCAGAAGGTGGCA
24212 P   A   S  CGCGCCGAGGTGGGCTCACCTGGY
24212 P   G   S  ATGACGTGGCAGACCGGGCTCACCTGGY
24212 T   A   S  TCAGCCAGGTGAGCCCAGCCACCTTCTGGAGAGGTGTGCGCGG
24212 T   G   S  TCAGCCAGGTGAGCCCGGCCACCTTCTGGAGAGGTGTGCGCGG
                    AGGATGTAGGAAGGGAGCCCGCCAAGGACCCAGAGATCATGAACTCAGCCAGGTGAGCCC[AG]GCCACCTTCTGGAGAGGTGTGCGCGGAGGAGGTCAG
24212 IS  [AG]      AGGGTGAGGGGTAGCGCTACACAC
24277 I       S  CCACATCTTTGCTCCATGCTGCACATGCAGT
24277 P   T   S  CGCGCCGAGGAGCCTCAAAGCCCCY
24277 P   C   S  ATGACGTGGCAGACGGCCTCAAAGCCCCY
24277 T   T   S  GCCGGGGGCTTTGAGGCTCTGCATGTGCAGCATGGAGCAAAGATGTGGGA
24277 T   C   S  GCCGGGGGCTTTGAGGCCCTGCATGTGCAGCATGGAGCAAAGATGTGGGA
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FIGURE 129E



			GCATCTTGGCAAGGCTCCCTTCAAAGGGCTCATTAACCTATCTGCCGGGGGCTTTGAGGC[TC]CTGCATGTGCAGCATGGAGCAAAGATGTGGGAATTGCT	
24277 IS	[TC]		AAGGAGACCAAATAGAGGTGAA	
24357 I		A	CCTGGAAAGTTTCTGCCCATGAAGCCCCT	
24357 P	A	A	CGCGCCGAGGAAGGGCAGAGGAGAGY	
24357 P	G	A	ATGACGTGGCAGACGAGGGCAGAGGAGAGY	
24357 T	A	A	TTCACTCTCCTCTGCCCTTGGGGCTTCATGGGCAGAAACTTTCCAGGGG	
24357 T	G	A	TTCACTCTCCTCTGCCCTCGGGGCTTCATGGGCAGAAACTTTCCAGGGG	
			CCGTGTGTAGCCCCCTGCCTGGATTCACTTCCCCTGGAAAGTTTCTGCCCATGAAGCCCC[AG]AGGGCAGAGGAGAGTGAAGAGTGAATGCCACAGCTGG	
24357 IS	[AG]		GTCTAGGGGCTCTGCCCAAAGAT	
24459 I		S	CCTCCTCCTTCCCTCCCCTCCCCT	
24459 P	C	S	ATGACGTGGCAGACGTCCACAGGGCAGCY	
24459 P	G	S	CGCGCCGAGGCTCCACAGGGCAGCY	
24459 T	C	S	TCAGGCTGCCCTGTGGACGGGGAGGGGAGGGAAGGAGGAGGCT	
24459 T	G	S	TCAGGCTGCCCTGTGGAGGGGAGGGGAGGGAAGGAGGAGGCT	
			ACCGAGGGGGAGCGTGGCCATATTTGGGTTTTGGAAAGCACGCTCAGGCTGCCCTGTGGA[CG]GGGGAGGGGAGGGAAGGAGGAGGCTGGGGCAGAAA	
24459 IS	[CG]		ACCCAGGGAAGAGGTCAGGGCAGGG	
24464 I		A	CAGCAAGTGAGGGATGGAGCTGACTGCTT	
24464 P	A	A	CGCGCCGAGGATACCCTCACCCCAGY	
24464 P	G	A	ATGACGTGGCAGACGTACCCTCACCCCAGY	
24464 T	A	A	CTGCCTGGGGTGAGGGTATAGCAGTCAGCTCCATCCCTCACTTGCTGTA	
24464 T	G	A	CTGCCTGGGGTGAGGGTACAGCAGTCAGCTCCATCCCTCACTTGCTGTA	
			CCTGTCTGAAAAGCGAGCCCCCTGCAGGGTTACAGCAAGTGAGGGATGGAGCTGACTGCT[AG]TACCCTCACCCCAGGCAGGGAGAGAATGGAGCAGCTC	
24464 IS	[AG]		CTCCTCCAGCCGCCCCCTCCTGC	
24467 I		S	GGGGAGAAAGGAGGGTCCCCAAGCTTTTTT	
24467 P	C	S	ATGACGTGGCAGACGGATAAGCTCGGATTTTGAY	
24467 P	G	S	CGCGCCGAGGCGATAAGCTCGGATTTTGAY	
24467 T	C	S	TCTCTCAAAATCCGAGCTTATCCAAAAAGCTTGGGGACCCTCCTTTCTCCCCAC	
24467 T	G	S	TCTCTCAAAATCCGAGCTTATCGAAAAAGCTTGGGGACCCTCCTTTCTCCCCAC	
			CACTCCCAGGTTCCCTGTCCCCACAGCTGCCTACAGGGTCTCTCAAAATCCGAGCTTATC[CG]AAAAAGCTTGGGGACCCTCCTTTCTCCCCACTTCCTCTC	
24467 IS	[CG]		TGCTTGCCTCTAGAGTGGAGT	
24724 I		A	TGTCACACGAAGGCAAGCGCTTGTGTAAACTCT	
24724 P	A	A	CGCGCCGAGGAAAATCTCAGTGGCTGTGY	
24724 P	G	A	ATGACGTGGCAGACGAAATCTCAGTGGCTGTGY	
24724 T	A	A	AGCTCACAGCCACTGAGATTTTGAGTTTACACAAGCGCTTGCCTTCGTGTGACACA	
24724 T	G	A	AGCTCACAGCCACTGAGATTTCGAGTTTACACAAGCGCTTGCCTTCGTGTGACACA	
			GCAGGCCCCAGGCAAAGGCCTGTATCTGTGTCACACGAAGGCAAGCGCTTGTGTAAACTC[AG]AAATCTCAGTGGCTGTGAGCTGAGGCCTGGGTTTGCA	
24724 IS	[AG]		AGGCACACCCAAGACACGGACTT	
24725 I		S	GGGTTCAATGGATTCACCAGAGCTGCAGCTC	
24725 P	A	S	CGCGCCGAGGTGATACCAAAATGCGATGGY	
24725 P	C	S	ATGACGTGGCAGACGGATACCAAAATGCGATGY	
24725 T	A	S	GTGCCCATCGCATTTTGGTATCAAGCTGCAGCTCTGGTGAATCCATTGAACCCAT	
24725 T	C	S	GTGCCCATCGCATTTTGGTATCCAGCTGCAGCTCTGGTGAATCCATTGAACCCAT	
			CCTTCTGCTCCCTTGTGCTCACAGCCTCTGCTTCAGCTGTGCCCATCGCATTTTGGTATC[AC]AGCTGCAGCTCTGGTGAATCCATTGAACCCATTACTGCT	
24725 IS	[AC]		TTCCAGTGTCCTACCTGCAGG	MID2
24737 I		S	CTTCTCAATGAGAAAAGGAGCTTTTCCCTCAGAATTTCCTTTCCTTTTAATAATT	
24737 P	C	S	ATGACGTGGCAGACGCCTGGGTAGAGCTTY	
24737 P	T	S	CGCGCCGAGGACCTGGGTAGAGCTTTTAY	
24737 T	C	S	TGATTAAAAGCTCTACCCAGGCATTATTAAAAGGAAAGGAAATTCTGAGGGAAAAGCTCCTTTTCTCATTGAGAAGTG	
24737 T	T	S	TGATTAAAAGCTCTACCCAGGTATTATTAAAAGGAAAGGAAATTCTGAGGGAAAAGCTCCTTTTCTCATTGAGAAGTG	
			ATCAAGGCCTGCAGAAAGCTGAGATTTCATTTTTAGTATTGATTAAAAGCTCTACCCAGG[CT]ATTATTAAAAGGAAAGGAAATTCTGAGGGAAAAGCTCCTT	
24737 IS	[CT]		TTCTCATTGAGAAGTGTTTT	
24765 I		S	CTGATTCCAGCACAGCCCTTCAGGATGCT	
24765 P	C	S	ATGACGTGGCAGACGCCCACTCTGCCAY	
24765 P	T	S	CGCGCCGAGGACCCACTCTGCCAGY	
24765 T	C	S	GGGACTGGCAGAGTGGGCGCATCCTGAAGGGCTGTGCTGGAATCAGCC	
24765 T	T	S	GGGACTGGCAGAGTGGGTGCATCCTGAAGGGCTGTGCTGGAATCAGCC	
			AGCACCAGCCCCAGGTGTCAGGGGTCAGTGCATTTGCCTCAGGGGGACTGGCAGAGTGGG[CT]GCATCCTGAAGGGCTGTGCTGGAATCAGCCCATAGT	
24765 IS	[CT]		CTTTGCGTGTCCCATGGGGCAGGG	
24805 I		A	CCTGCTGCAGCGTGGGGGGAA	
24805 P	T	A	CGCGCCGAGGTGTGACACTTGCCTCCY	
24805 P	C	A	ATGACGTGGCAGACCGTGACACTTGCCTCY	
24805 T	T	A	GTGGGGAGGCAAGTGTCACATCCCCCCACGCTGCAGCAGGAC	
24805 T	C	A	GTGGGGAGGCAAGTGTCACGTCCCCCCACGCTGCAGCAGGAC	
			CCGGCCCCCATTGCTGTGTGTGGACGCGGTGAGGCGGAGTCCTGCTGCAGCGTGGGGGGA[TC]GTGACACTTGCCTCCCCACCCCCCAGGCCTGATGGT	
24805 IS	[TC]		GAACCGGAGTTTCCTGACAACTGA	
24808 I		S	GGGCACGTGGCACTAAATCCACCTCCT	
24808 P	T	S	CGCGCCGAGGAAGCCGAGTGGAAATGY	
24808 P	C	S	ATGACGTGGCAGACGAGCCGAGTGGAAATGY	
24808 T	T	S	GACGCATTTCCACTCGGCTTGGAGGTGGATTTAGTGCCACGTGCCCGA	
24808 T	C	S	GACGCATTTCCACTCGGCTCGGAGGTGGATTTAGTGCCACGTGCCCGA	
			AAACGGGTGCGGCCGCCTCCTGTGTCCTACAGGGGGCGCCAGACGCATTTCCACTCGGCT[TC]GGAGGTGGATTTAGTGCCACGTGCCCGAAAGTCTTAA	FLJ23544
24808 IS	[TC]		ATTGGGTGACCTGAGCTGTGCAA	
24834 I		S	AGCGTGGCGTGGGGCAGCTC	
24834 P	C	S	ATGACGTGGCAGACGCCCTGCAGTGTATGY	
24834 P	A	S	CGCGCCGAGGTCCCTGCAGTGTATGTY	
24834 T	C	S	GACCACATACACTGCAGGGCAGCTGCCCCACGCCACGCTCC	
24834 T	A	S	GACCACATACACTGCAGGGAAGCTGCCCCACGCCACGCTCC	
			CTCAAAGGAGTATCTGATGACACTTCTGGCCTCGGGTCCTGGACCACATACACTGCAGGG[CA]AGCTGCCCCACGCCACGCTCCCCATCCCATCCTCACAC	
24834 IS	[CA]		TTACTGGCTCAGACAGGGACCT	
25001 I		A	CTCGAATGTAGACATGCAGGGGAAAGAAGAAAAGATTCCGTATTTTTTAA	
25001 P	T	A	CGCGCCGAGGTTCTGGCTTCCTTGAGCY	
25001 P	C	A	ATGACGTGGCAGACCTCTGGCTTCCTTGAGY	
25001 T	T	A	CTGTGCTCAAGGAAGCCAGAATAAAAAATACGGAATCTTTTCTTCTTTCCCCTGCATGTCTACATTCGAGGC	
25001 T	C	A	CTGTGCTCAAGGAAGCCAGAGTAAAAAATACGGAATCTTTTCTTCTTTCCCCTGCATGTCTACATTCGAGGC	
			TCTTTAAATGCCTCGAATGTAGACATGCAGGGGAAAGAAGAAAAGATTCCGTATTTTTTA[TC]CTGGCTTCCTTGAGCACAGCTTTCTTCTCCTTGGTGTGG	
25001 IS	[TC]		CTTACCTGAAATACTGAAGA	
25005 I		A	GGTCTGGTTCGAGCACTCTAAGCACACCCA	
25005 P	C	A	ATGACGTGGCAGACCGAGCACTCTAGCACTY	
25005 P	T	A	CGCGCCGAGGTGAGCACTCTAGCACTGY	
25005 T	C	A	GATGCAGTGCTAGAGTGCTCGGGGTGTGCTTAGAGTGCTCGAACCAGACCTC	
25005 T	T	A	GATGCAGTGCTAGAGTGCTCAGGGTGTGCTTAGAGTGCTCGAACCAGACCTC	
			TCACAGAGAGAAATGGTAATTCATCTTCAGAGGTCTGGTTCGAGCACTCTAAGCACACCC[CT]GAGCACTCTAGCACTGCATCACATGACTGGTTTGTTGTG	
25005 IS	[CT]		TGATTGTGGACACCTTCATGC	
25196 I		A	TGGATTGGGTGTGTGAGCTCACATACCTCGTCT	
25196 P	G	A	ATGACGTGGCAGACGCTTATCTGCTGCTCACY	
25196 P	A	A	CGCGCCGAGGACTTATCTGCTGCTCACY	
25196 T	G	A	AGAGGTGAGCAGCAGATAAGCGACGAGGTATGTGAGCTCACACACCCAATCCACT	
25196 T	A	A	AGAGGTGAGCAGCAGATAAGTGACGAGGTATGTGAGCTCACACACCCAATCCACT	

FIGURE 129E



			GAGGATCTGGAAGGCAGAAGTGCCACAGTGGATTGGGTGTGTGAGCTCACATACCTCGTC[GA]CTTATCTGCTGCTCACCTCTTTGGCAGGCAACAGCAGC
25196 IS	[GA]		TGGGCCCACGCTGCCCCACCTT
25228 I		A	CACTGACCAGTACACCTCTGCAGCCCTT
25228 P	G	A	ATGACGTGGCAGACGCCCTGGCCCTTTY
25228 P	A	A	CGCGCCGAGGACCCTGGCCCTTTCY
25228 T	G	A	GGTAGAAAGGGCCAGGGCAGGGCTGCAGAGGTGTACTGGTCAGTGGG
25228 T	A	A	GGTAGAAAGGGCCAGGGTAGGGCTGCAGAGGTGTACTGGTCAGTGGG
			TACTCCAGGGTGCTGGGGCCACTCCCAGAGCCCCACTGACCAGTACACCTCTGCAGCCCT[GA]CCCTGGCCCTTTCTACCAACTCCTTGCTCTTGGTGGGT
25228 IS	[GA]		AAAGCAACAAGGGAGACCGATC
25603 I		A	CCAGCAAGCAGCTACACATCCCCTTCTCTGAC
25603 P	T	A	CGCGCCGAGGTGAGCTAACGCAATCTGY
25603 P	A	A	ATGACGTGGCAGACAGAGCTAACGCAATCTGY
25603 T	T	A	ACCCCAGATTGCGTTAGCTCATCAGAGAAGGGGATGTGTAGCTGCTTGCTGGCT
25603 T	A	A	ACCCCAGATTGCGTTAGCTCTTCAGAGAAGGGGATGTGTAGCTGCTTGCTGGCT
			GGCTAGCCCCACTCCAGGGCACCAGTGAGCCAGCAAGCAGCTACACATCCCCTTCTCTGA[TA]GAGCTAACGCAATCTGGGGTAGGGAGAGAAGCCACCC
25603 IS	[TA]		TCCCTCCCCAGAACAGACAAACA
26226 I		A	GGACCGGGATAGAATAATGCATTTGTTAGGATGGATGTTTTGAATCT
26226 P	G	A	ATGACGTGGCAGACGCAACCCAATGTGGTTY
26226 P	C	A	CGCGCCGAGGCCAACCCAATGTGGTTTY
26226 T	G	A	AGTTAAACCACATTGGGTTGCGATTCAAAACATCCATCCTAACAAATGCATTATTCTATCCCGGTCCAC
26226 T	C	A	AGTTAAACCACATTGGGTTGGGATTCAAAACATCCATCCTAACAAATGCATTATTCTATCCCGGTCCAC
			GGTTCCTGAGCTGTGGACCGGGATAGAATAATGCATTTGTTAGGATGGATGTTTTGAATC[GC]CAACCCAATGTGGTTTAACTGAAAACAGGAATGGAGTGG
26226 IS	[GC]		CTAACGGCTGCCAGGTCCTGC
26279 I		S	GAGATGGATACAGCAGCTCAGGTGGGGCT
26279 P	T	S	CGCGCCGAGGAAGGGCAGGCCTGY
26279 P	C	S	ATGACGTGGCAGACGAGGGCAGGCCTGY
26279 T	T	S	TTTCCAGGCCTGCCCTTGCCCCACCTGAGCTGCTGTATCCATCTCCT
26279 T	C	S	TTTCCAGGCCTGCCCTCGCCCCACCTGAGCTGCTGTATCCATCTCCT
			TGTTTCCTTTCTGGACCATTTCCCCAGGGCCTGGCACTGTCATCTTTCCAGGCCTGCCCT[TC]GCCCCACCTGAGCTGCTGTATCCATCTCCTCTCCTTCAC
26279 IS	[TC]		CTCAGGAATCCTTAACTTCTG
27393 I		A	CCAAAGGTCTGCTATCTTGTCCTGAGCCTTTCCT
27393 P	C	A	ATGACGTGGCAGACCATCTCCTACCCAGGCY
27393 P	A	A	CGCGCCGAGGAATCTCCTACCCAGGCY
27393 T	C	A	ATGGGCCTGGGTAGGAGATTGGAAAGGCTCAGGACAAGATAGCAGACCTTTGGCC
27393 T	A	A	ATGGGCCTGGGTAGGAGATTGGAAAGGCTCAGGACAAGATAGCAGACCTTTGGCC
			CCAATGCGCTTCCCTTCGAGAGGAAGGCCAAAGGTCTGCTATCTTGTCCTGAGCCTTTCC[CA]ATCTCCTACCCAGGCCCATTGCCTTTCTCCTCCCCAGTG
27393 IS	[CA]		ATAACAGAATGACTCACTGGG

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FIGURE 129F

SNP	OLIGO	PR	DC	OLIGO_SEQUENCE	GPCO	GPCH	SHORT_GENE_NAME
4027	I		A	CTCCAGTTAACCTCATATCCAATTTTTCCTTTCCAGAAAGAAGAGATTTTATCT			
4027	P	G	A	CGCGCCGAGGGACATCGAAAGTAAATTTGCCC			
4027	P	A	A	CGCGCCGAGGAACATCGAAAGTAAATTTGCCCY			
4027	T	G	A	CTTAGGGCAAATTTACTTTCGATGTCGATAAAATCTCTTCTTTCTGGAAAGGAAAAATTGGATATGAGGTTAACTGGAG			
4027	T	A	A	CTTAGGGCAAATTTACTTTCGATGTTGATAAAATCTCTTCTTTCTGGAAAGGAAAAATTGGATATGAGGTTAACTGGAG			
4027	IS	[GA]		CTCCAGTTAACCTCATATCCAATTTTTCCTTTCCAGAAAGAAGAGATTTTATC[GA]ACATCGAAAGTAAATTTGCCCTAAGGACCCCTGAAGACACAGCTGAGGACACTTGCCACCTCATTCCCG G	ctg13580	1	
4752	I		A	TTTTAGTCACTATCAAATGTATTACTGACTTCTACTCACTAATGTCTTTG			
4752	P	G	A	CGCGCCGAGGGTAAATTTTGGAGTTATCTTTTTCTTTATTTTTTY			
4752	P	A	A	CGCGCCCAGGATAAATTTTGGAGTTATCTTTTTCTTTATTTTTTGY			
4752	T	G	A	GTTTCAAAAATAAAGAAAAAAGATAACTCCAAAATTTACCAAAGACATTAGTGAGTAGAAGTCAGTAATACATTTGATAGTGACTAAAA			
4752	T	A	A	GTTTCAAAAATAAAGAAAAAAGATAACTCCAAAATTTATCAAAGACATTAGTGAGTAGAAGTCAGTAATACATTTGATAGTGACTAAAA			
4752	IS	[GA]		TTTTAGTCACTATCAAATGTATTACTGACTTCTACTCACTAATGTCTTTG[GA]TAAATTTTGGAGTTATCTTTTTCTTTATTTTTTGAAACTGAGTCTTGCT	ctg16586	20	
4767	I		A	GTGCTCTTCAGGTCGCGCCTGGGTT			
4767	P	G	A	CGCGCCGAGGGCCCAGAGCCTTCGTY			
4767	P	C	A	CGCGCCGAGGCCCCAGAGCCTTCGTY			
4767	T	G	A	TCTAACGAAGGCTCTGGGCACCCAGGCCGCACCTGAAGAGCACCA			
4767	T	C	A	TCTAACGAAGGCTCTGGGCACCCAGGCCGCACCTGAAGAGCACCA			
4767	IS	[GC]		CCGCGCCGCGGACGCAACAGTCGTTGGTGCTCTTCAGGTGCGGCCTGGGT[GC]CCCAGAGCCTTCGTTAGACTCTCGGACCCGCAAGGGAGCCCGAACTCTTT	ctg16586	20	
4771	I		S	CGGTGCGCTCCGCCGCCTCT			
4771	P	G	S	CGCGCCGAGGCGCTGCAACCAGAGAGY			
4771	P	C	S	CGCGCCGAGGGGCTGCAACCAGAGAGY			
4771	T	G	S	TCGCCTCTCTGGTTGCAGCCGAGGCGCCGCGAGCGCACCGCC			
4771	T	C	S	TCGCCTCTCTGGTTGCAGCCGAGGCGCCGCGAGCGCACCGCC			
4771	IS	[GC]		CCGCTGTCTCCCCGAGCCAGTGCGTTCAGCATGCCTCTCTGGTTGCAGC[GC]GAGGCGCCGCGAGCGCACCGCCCACAGGGCTCAGGGTCCTCCGAACCGGGT	ctg16586	20	
4801	I		A	CACAGGTTCCCCATAAGAAAAATCAAAATCAGGGAAAATGAAACCACAAC			
4801	P	T	A	CGCGCCGAGGTGGTTCAATCTGCTCTGACY			
4801	P	A	A	CGCGCCGAGGAGGTTCAATCTGCTCTGACY			
4801	T	T	A	AAAGGTCAGAGCAGATTGAACCATTGTGGTTTCATTTTCCCTGATTTTGATTTTTCTATGGGGAACCTGTGT			
4801	T	A	A	AAAGGTCAGAGCAGATTGAACCTTTGTGGTTTCATTTTCCCTGATTTTGATTTTTCTATGGGGAACCTGTGT			
4801	IS	[TA]		ACACAGGTTCCCCATAAGAAAAATCAAAATCAGGGAAAATGAAACCACAA[TA]GGTTCAATCTGCTCTGACCTTTGAAAACTCAGCACAGATAGTGGCACTT	ctg16586	20	
4807	I		S	GCCACAAGGCAGGAGTCATCTCCAGGCAA			
4807	P	G	S	CGCGCCGAGGCGTCCTTGGCCTGGAY			
4807	P	A	S	CGCGCCGAGGTGTCCTTGGCCTGGAGY			
4807	T	G	S	TGGGCTCCAGCCCAAGGACGTGCCTGGAGATGACTCCTGCCTTGTGGCGC			
4807	T	A	S	TGGGCTCCAGCCCAAGGACATGCCTGGAGATGACTCCTGCCTTGTGGCGC			
4807	IS	[GA]		AAAGTGAGGCACCACCAGGAGCTTGTCCCTATGGGCTCCAGCCCAAGGAC[GA]CATGCCTGGAGATGACTCCTGCCTTGTGGCGCTGTCACTGCCTCACTGTCCA	ctg14210	12	
4808	I		A	TGTAGATTTGTTCTGCCTGGTTTTGACTTCTATAAAATACAGCACATTCTT			
4808	P	G	A	CGCGCCGAGGGTTTAGCCTGGCTTCTTTGGY			
4808	P	A	A	CGCGCCGAGGATTTAGCCTGGCTTCTTTGGY			
4808	T	G	A	TGAACCAAAGAAGCCAGGCTAAACAGAATGTGCTGTATTTTATAGAAGTCAAAACCAGGCAGAACAAATCTACA			
4808	T	A	A	TGAACCAAAGAAGCCAGGCTAAATAGAATGTGCTGTATTTTATAGAAGTCAAAACCAGGCAGAACAAATCTACA			
4808	IS	[GA]		TGTAGATTTGTTCTGCCTGGTTTTGACTTCTATAAAATACAGCACATTCT[GA]TTTAGCCTGGCTTCTTTGGTTCAGTATTACAGAACACATCCATGTTCTTG	ctg14210	12	
4820	I		S	GCATTGTGGGACACAGAAGGGCGCCAGA			
4820	P	A	S	CGCGCCGAGGTCGCTCCCCGCCY			
4820	P	G	S	CGCGCCGAGGCCGCTCCCCGCCY			
4820	T	A	S	TCGAGGCGGGGAAGCGACTGGCGCCCTTCTGTGTCCCACAATGCTT			
4820	T	G	S	TCGAGGCGGGGAAGCGACTGGCGCCCTTCTGTGTCCCACAATGCTT			
4820	IS	[AG]		TCATCACTGAAACTTGGCGGCCGCGCAATCGAAGCTCGAGGCGGGGAAGCG[AG]CTGCGCCCTTCTGTGTCCCACAATGCTTCGCGGCGCGCTCAGCCCCA	ctg14210	12	
6990	I		S	TGGTAAATCCAGGTGCAAAACAGAACTCAAGTTAAGGCCTCA			
6990	P	G	S	CGCGCCGAGGCGCACAGCACTGCG			
6990	P	A	S	CGCGCCGAGGTGCACAGCACTGCGY			
6990	T	G	S	AGAACGCAGTGCTGTGCGACAGGCCTTAACTTGAGTTCTGTTTTGCACCTGGATTTACCAGC			
6990	T	A	S	AGAACGCAGTGCTGTGCAGAGGCCTTAACTTGAGTTCTGTTTTGCACCTGGATTTACCAGC			
6990	IS	[GA]		CACAGGACACTAGAGTAAGAATCCTTCACAGTTAGAACGCAGTGCTGTGC[GA]GAGCCTTAACTTGAGTTCTGTTTTGCACCTGGATTTACCAGCACATCAA			DXFZP434P211
7037	I		S	CTTGTTGAAATTCAGAGATCCCCTCCCCTACCAT			
7037	P	T	S	CGCGCCGAGGATACACACCAAATCAGACGC			
7037	P	C	S	CGCGCCGAGGGTACACACCAAATCAGACGC			
7037	T	T	S	AGAGCGTCTGATTTGGTGTGTATTGGTAGGGGGAGGGGGATCTCTGAATTTCAACAAGTT			
7037	T	C	S	AGAGCGTCTGATTTGGTGTGTACTGGTAGGGGGAGGGGGATCTCTGAATTTCAACAAGTT			
7037	IS	[TC]		CTCTGAGAGCCAAATTCAGATCTGGTCAGAGGCGTCTGATTTGGTGTGTAT[TC]TGGTAGGGGGAGGGGGATCTCTGAATTTCAACAAGTTTTCTCCCTCTAGG			
7047	I		S	GAGGACTTAAAGAAATGGGTTTTAGTTGTTTGCAAAAGTCCATCTTTGGAT			
7047	P	T	S	CGCGCCGAGGAGATTTCTCACCCCTTCCTY			
7047	P	C	S	CGCGCCGAGGGGATTTCTCACCCCTTCCTY			
7047	T	T	S	GTCAGGAAGGGGTGAGAAATCTTCCAAAGATGGACTTTTGCAAACAACTAAAACCCATTTCTTTAAGTCCTC			
7047	T	C	S	GTCAGGAAGGGGTGAGAAATCCTCCAAAGATGGACTTTTGCAAACAACTAAAACCCATTTCTTTAAGTCCTC			
7047	IS	[TC]		TGGGGTGCCCAGCCCCTCCCTCCCTCATGTCAAGCAAGGGGTGAGAAATC[TC]TCCAAAGATGGACTTTTGCAAACAACTAAAACCCATTTCTTTAAGTCCTC	ctg22fm4	22	
7088	I		A	GAACTCCAAACTCCTTTCTATTCTTTGTCAGGCAGAAAGCGATTGT			
7088	P	G	A	CGCGCCGAGGCCTGGACTGGTTAGY			
7088	P	A	A	CGCGCCGAGGACCTGGACTGGTTAGC			
7088	T	G	A	CCAGGCTAACCAGCCCAGGCAATCGCTTTCTGCCTGACAAAGAATACAAAGCAGTTTGGAGTTCAA			
7088	T	A	A	CCAGGCTAACCAGCCCAGGTCAATCGCTTTCTGCCTGACAAAGAATACAAAGCAGTTTGGAGTTCAA			
7088	IS	[GA]		TGGTTGAACTCCAAACTCTTTCTATTCTTTGTCAGGCAGAAAGCGATTG[GA]CCTGGGCTGGTTAGCCTGGTTCTCATCTCCATGCTCAAAAGCTATGTCAG	ctg22fm4	22	
7106	I		S	GAAGGACCCATTTCTCCACACACATTTGCCTACCCT			
7106	P	T	S	CGCGCCGAGGACGCTCACACCCACG			
7106	P	G	S	CGCGCCGAGGCCGCTCACACCCAC			
7106	T	T	S	GATGCGTGGGTGTGAGCGTGGGTAGGCAAATGTGTGTGGAGAAATGGGTCCTTCTT			
7106	T	G	S	GATGCGTGGGTGTGAGCGGGGGTAGGCAAATGTGTGTGGAGAAATGGGTCCTTCTT			
7106	IS	[TG]		AGTTCAATGAAGAGGACAGTGGAAATGTGTGTGATGGGTGGGTGTGAGCG[TG]GGGTAGGCAAATGTGTGTGGAGAAATGGGTCCTTCTTTCATGAGGCTTCA	ctg22fm4	22	
7182	I		A	CCACTGCAAAAGAAAGCTTGAGGTTGGCCCTTTAAATTTTCAT			
7182	P	A	A	CGCGCCGAGGAGCTAGACTGGCTGGC			
7182	P	G	A	CGCGCCGAGGGGCTAGACTGGCTGGC			

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FIGURE 129F

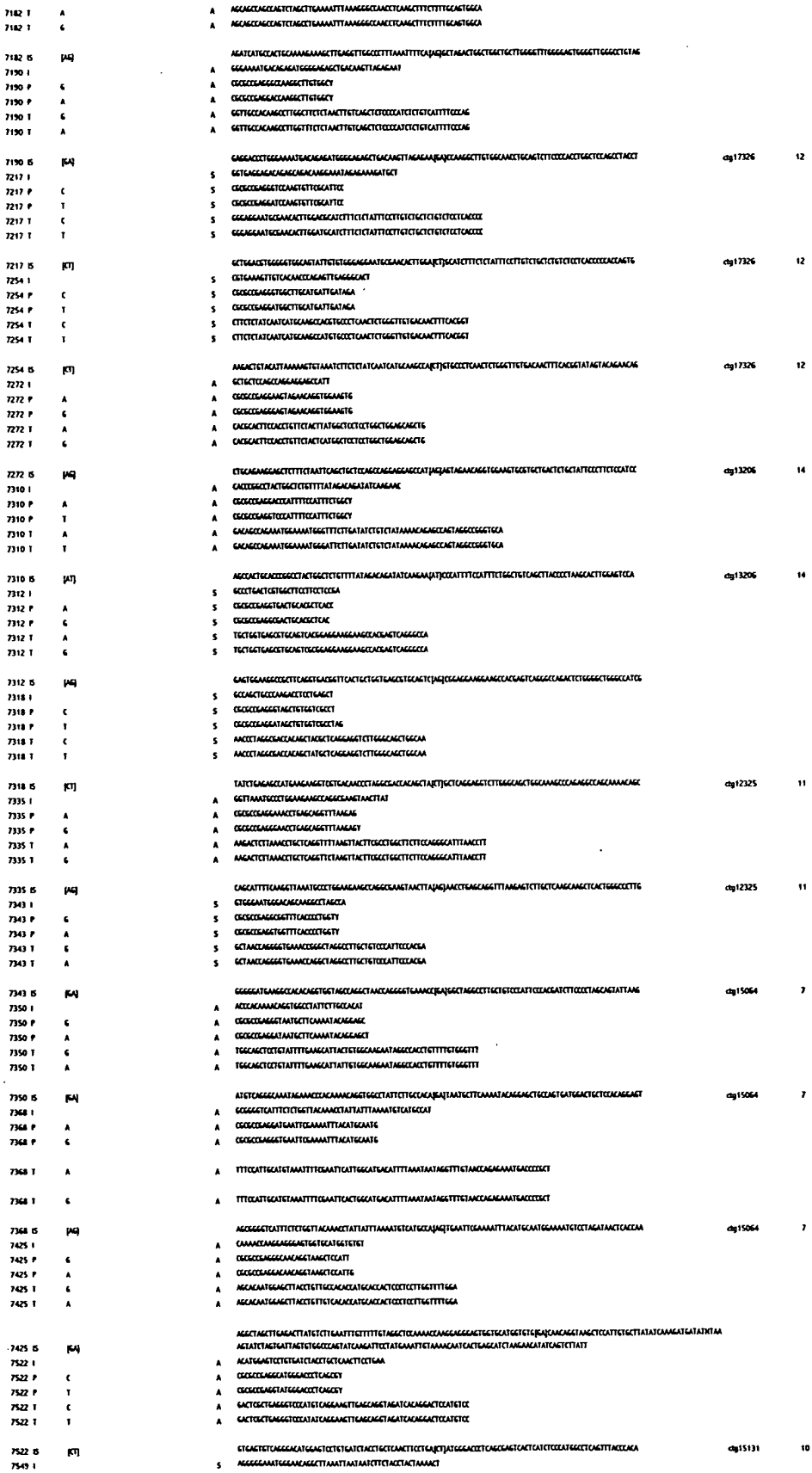
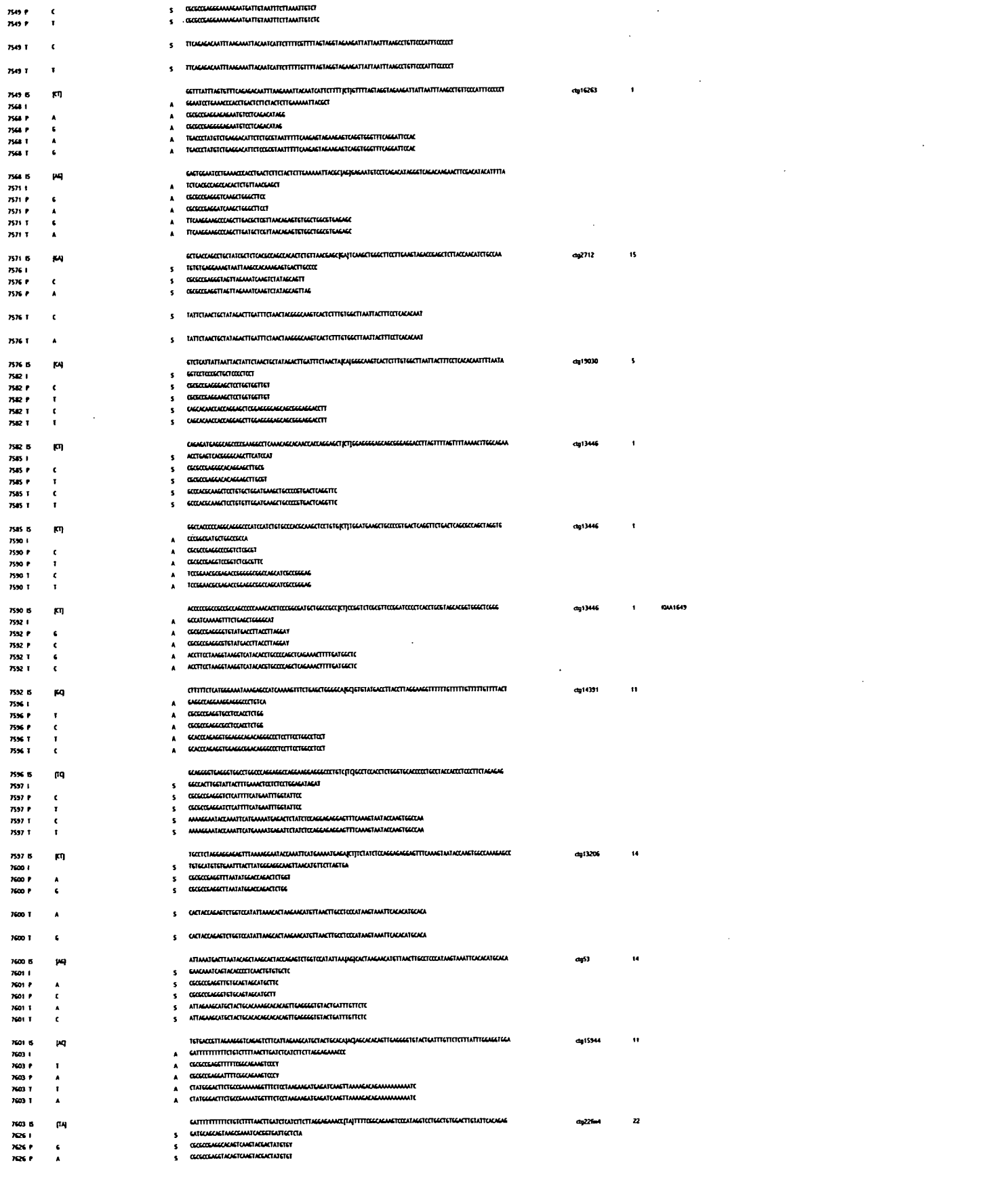


FIGURE 129F



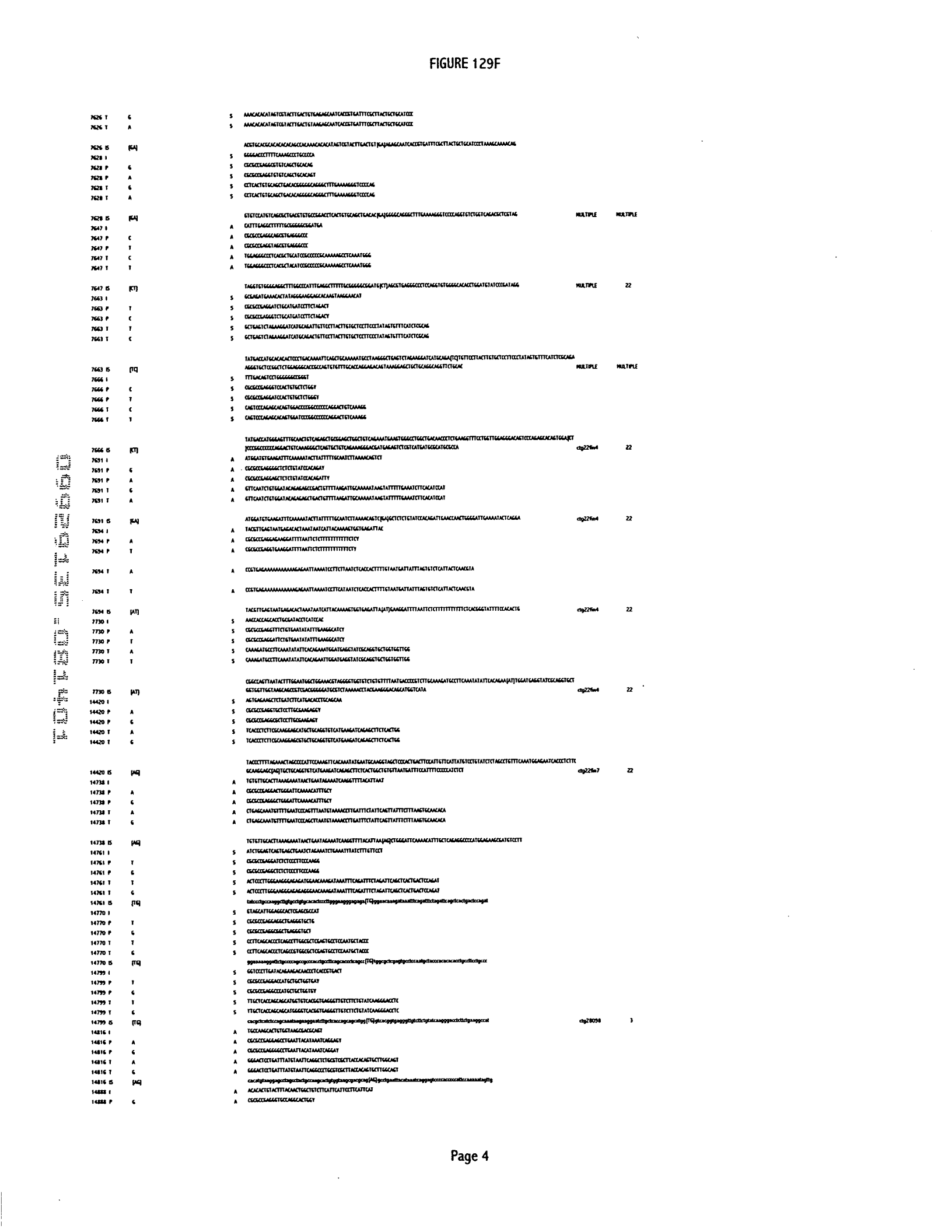
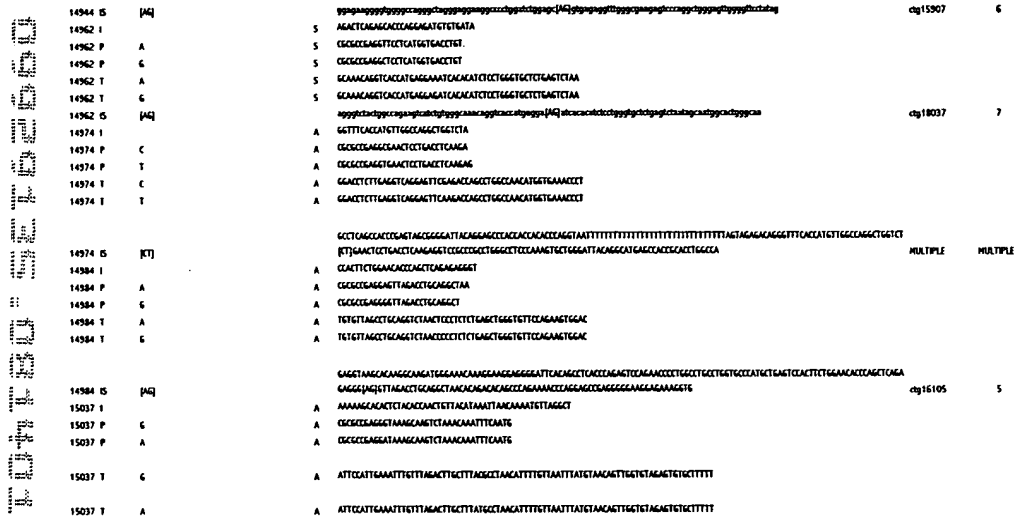


FIGURE 129F





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Replacement Sheet



FIGURE 129F

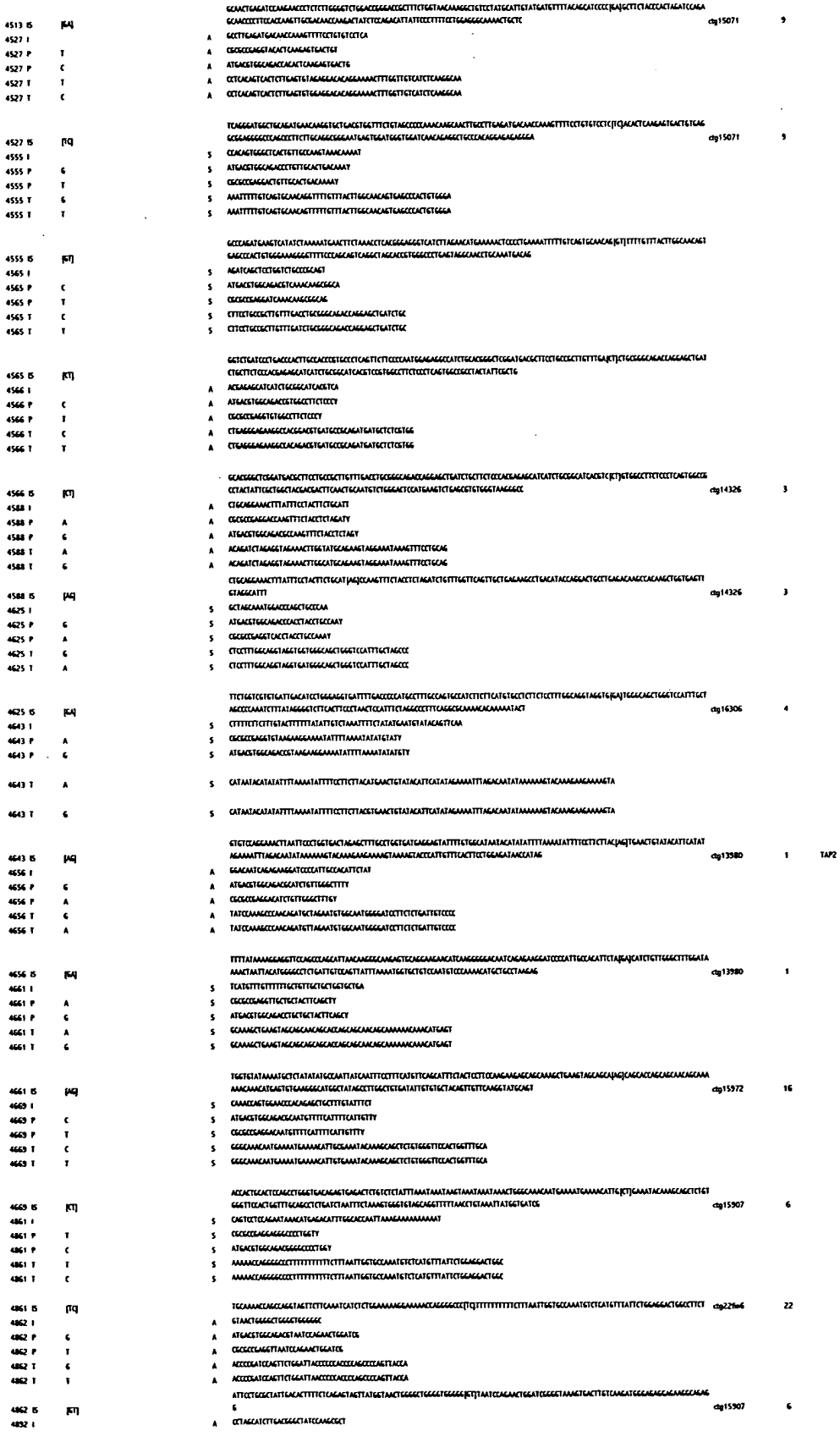


FIGURE 129F

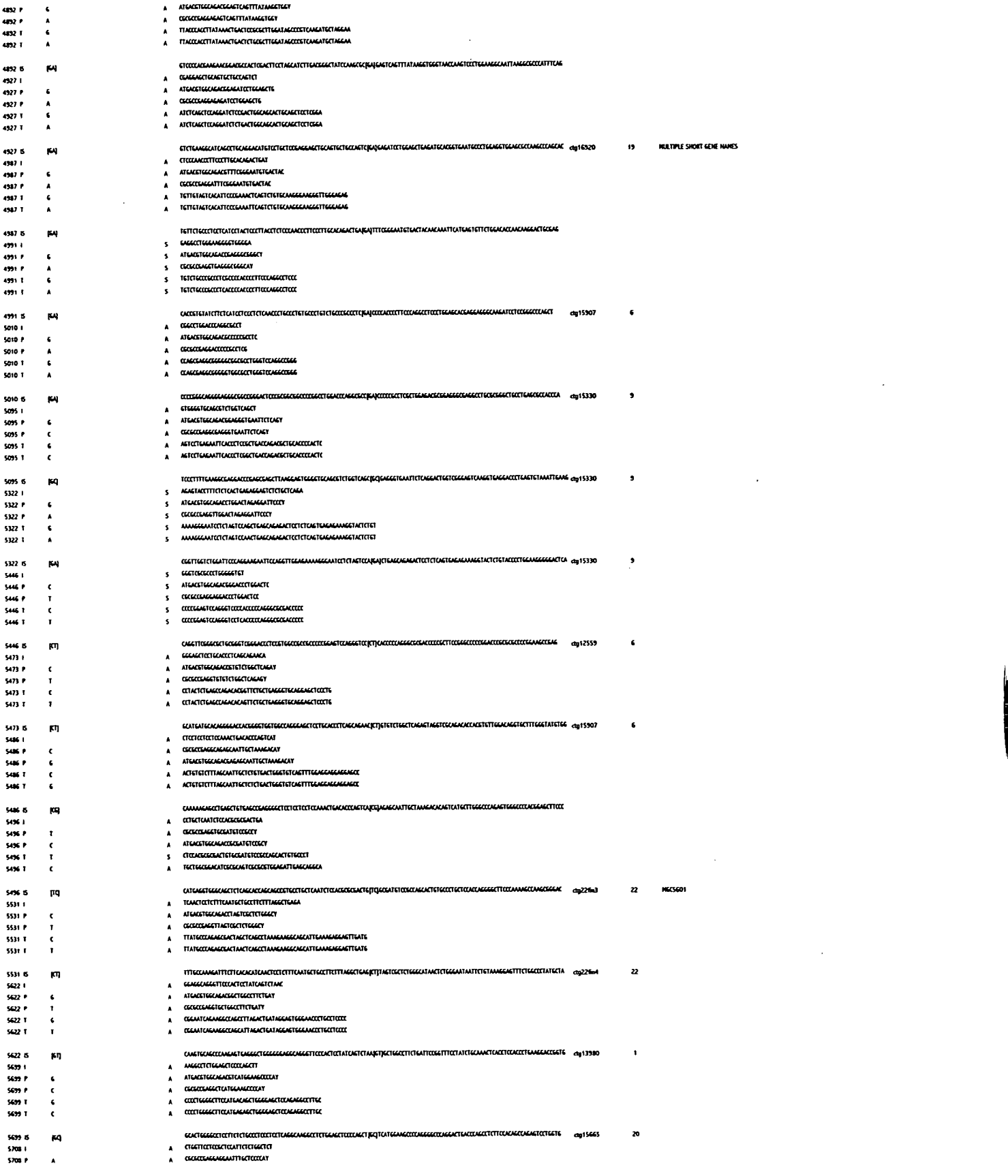


FIGURE 129F

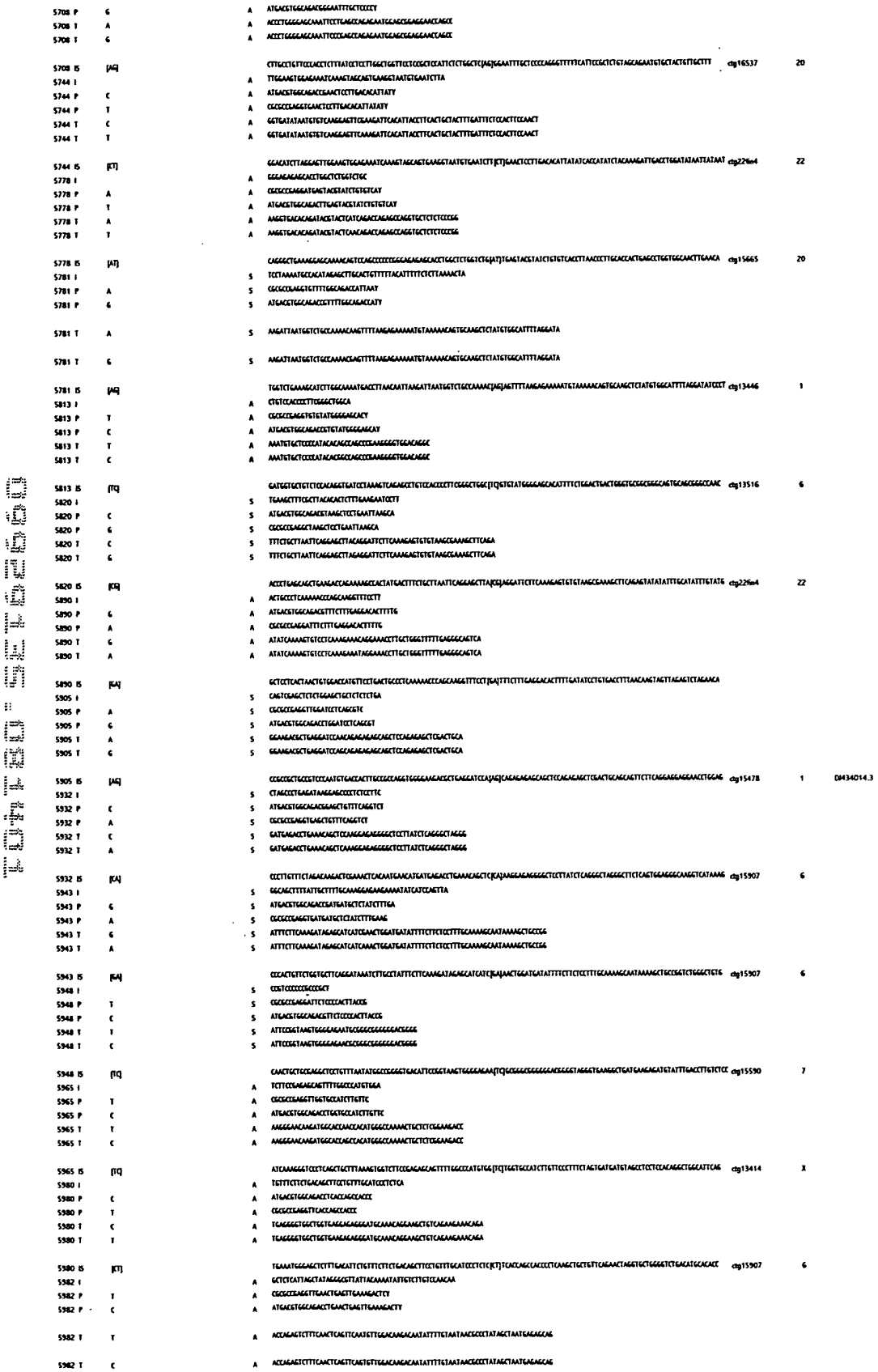
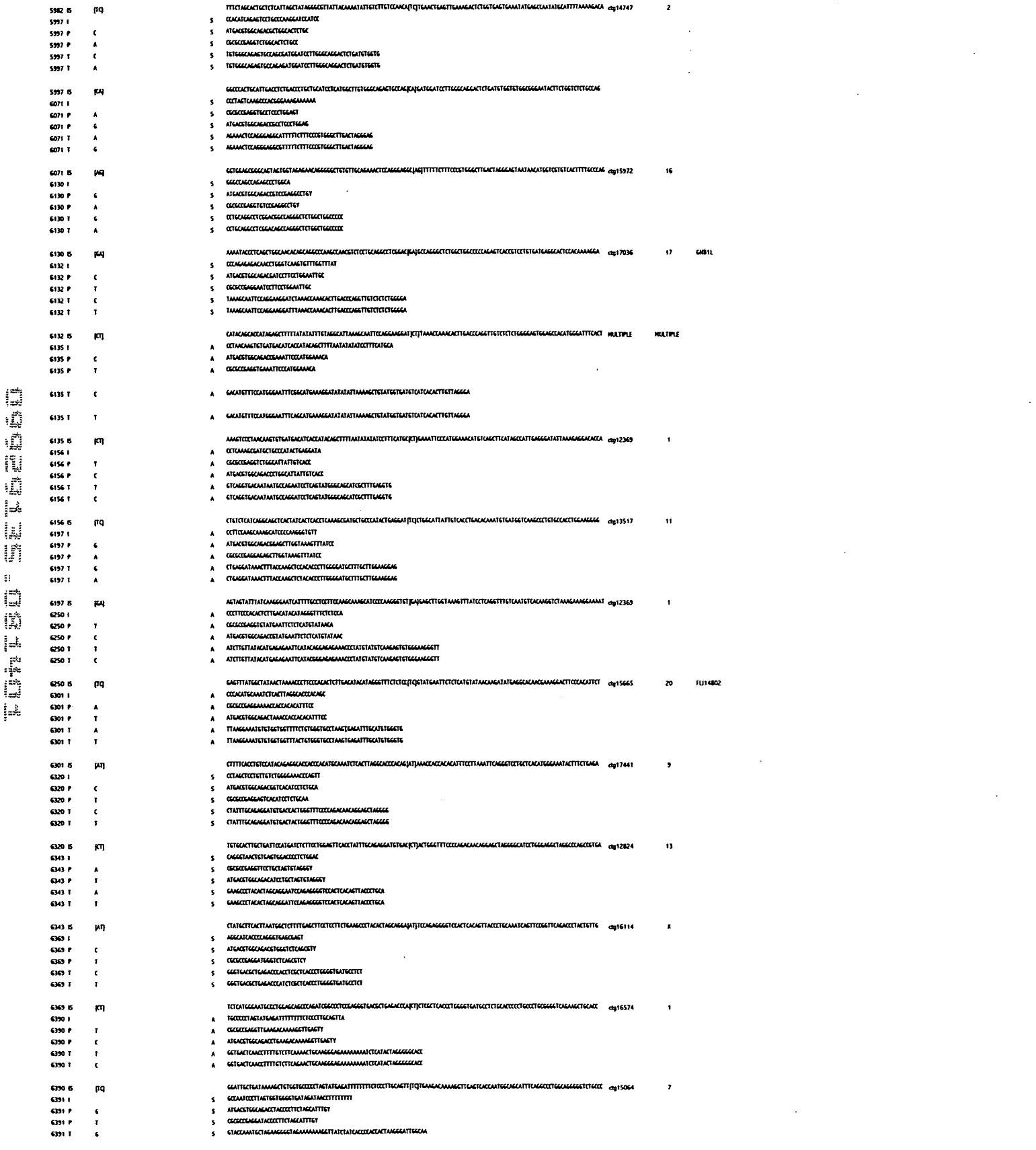


FIGURE 129F



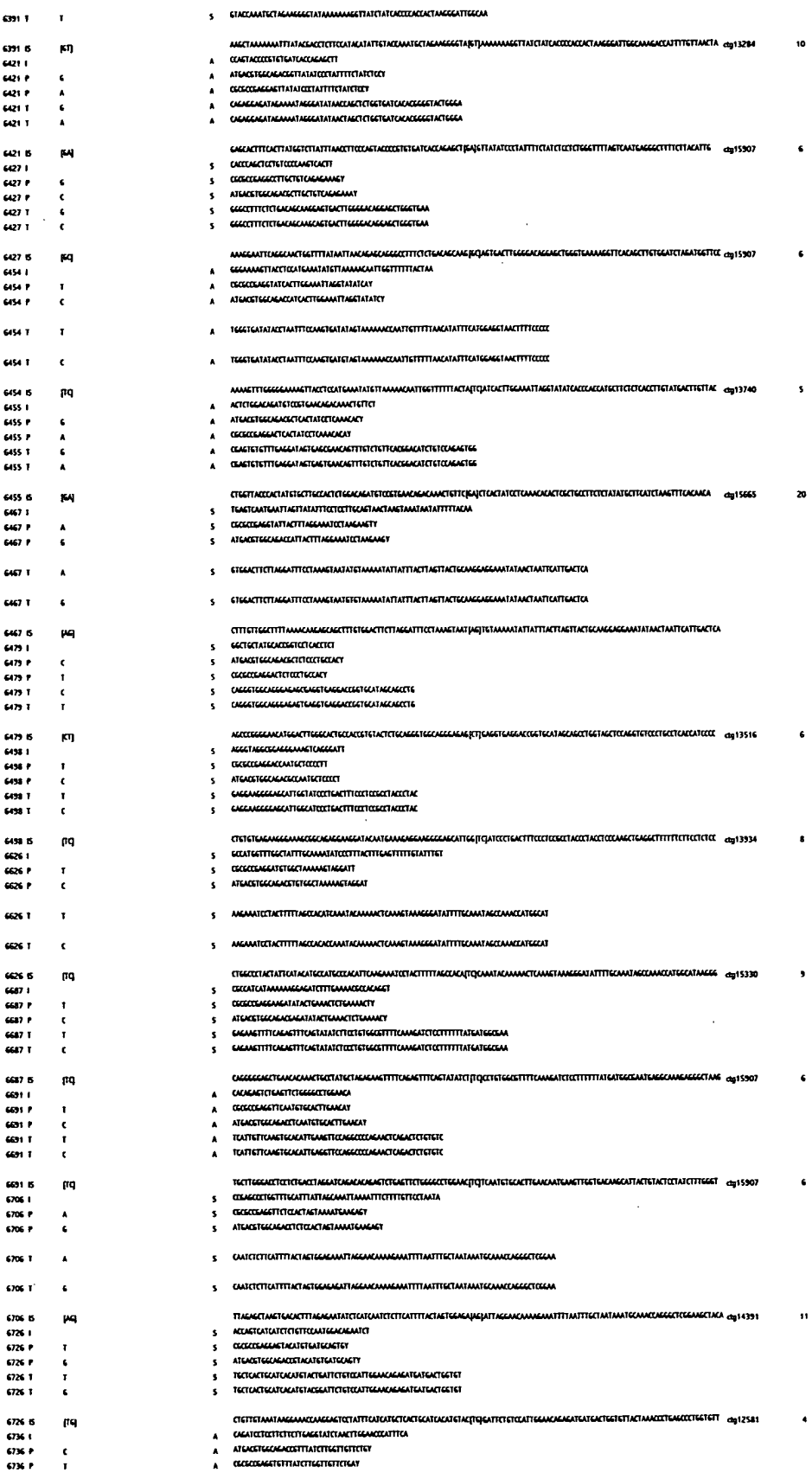


FIGURE 129F

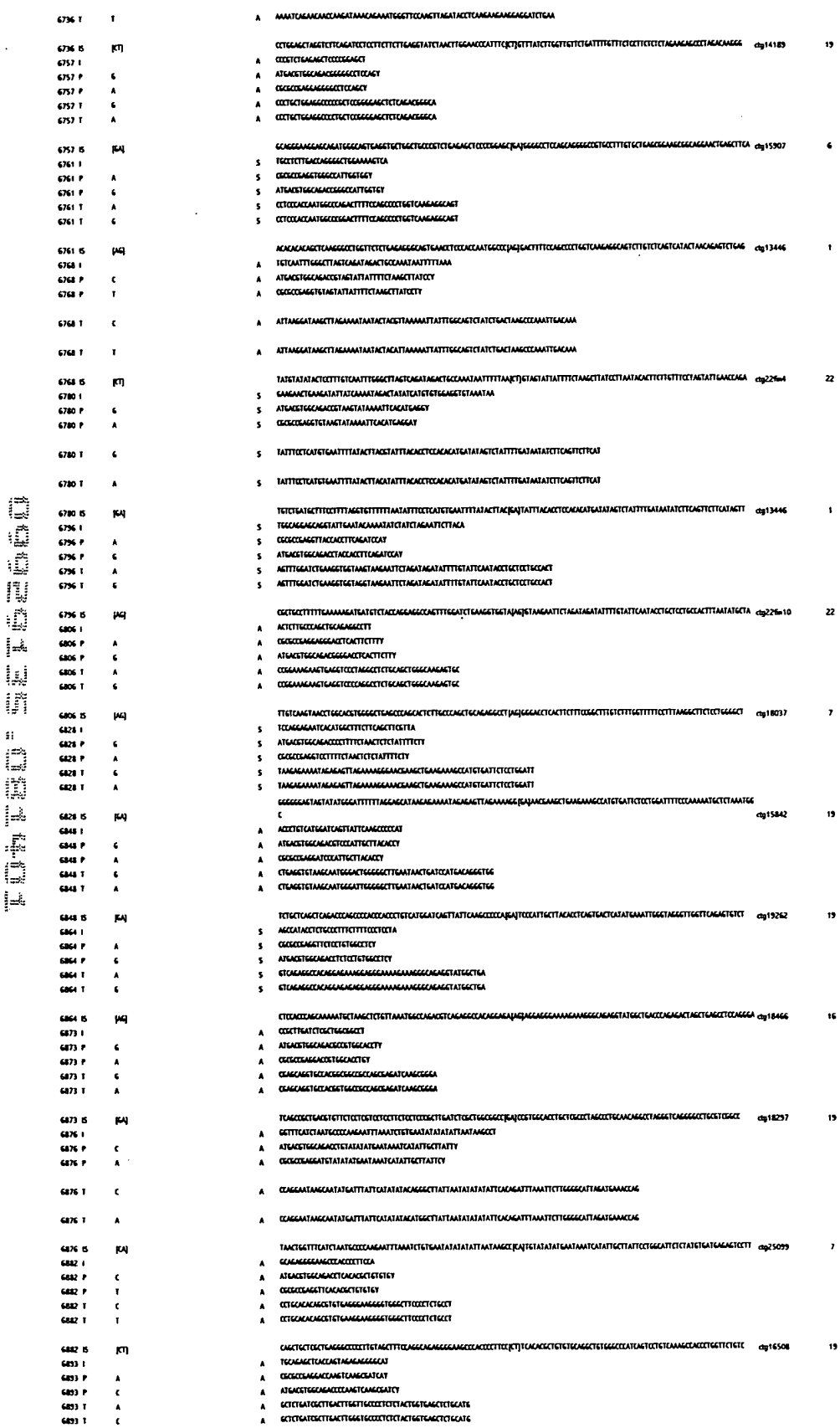
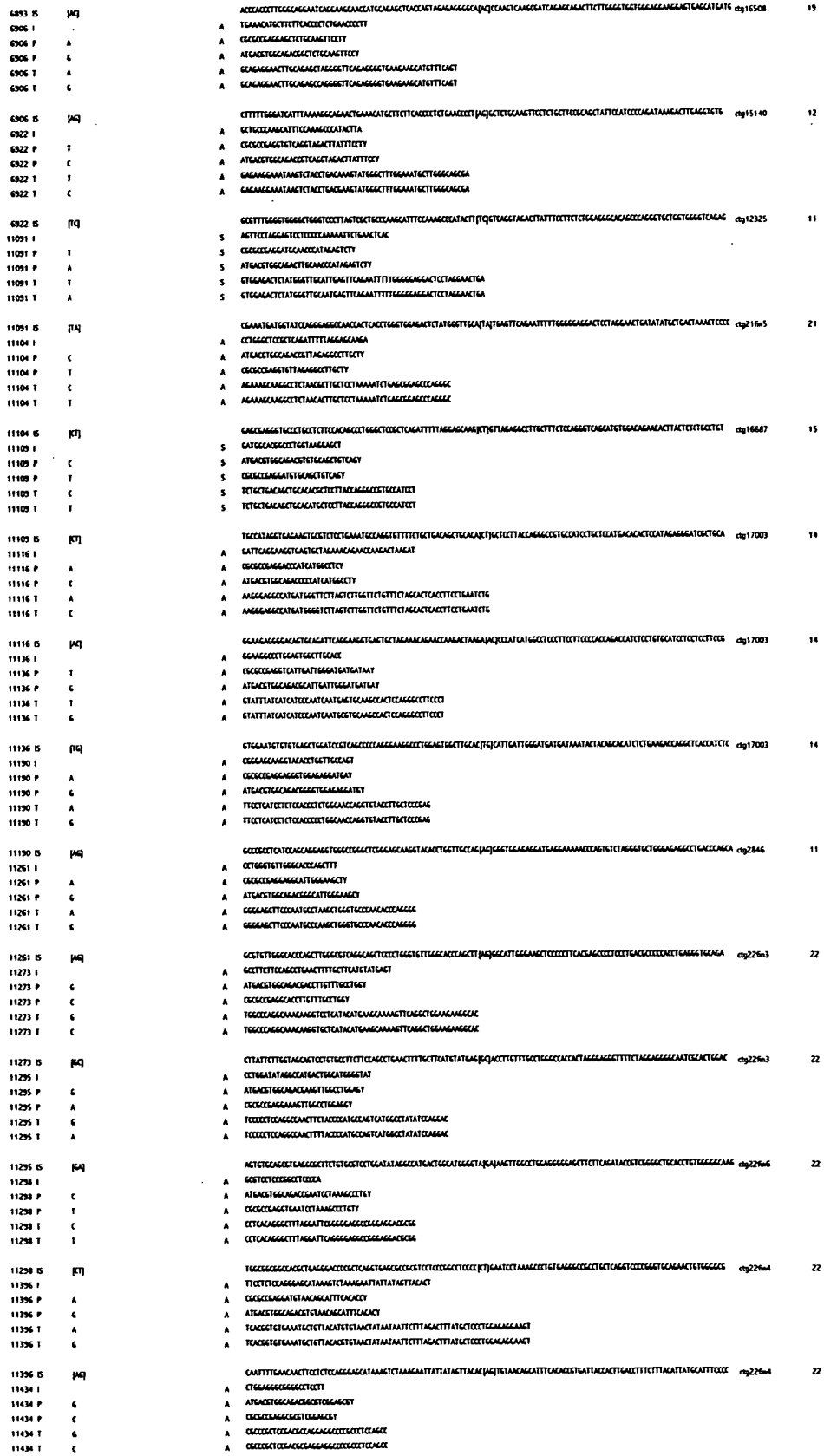


FIGURE 129F



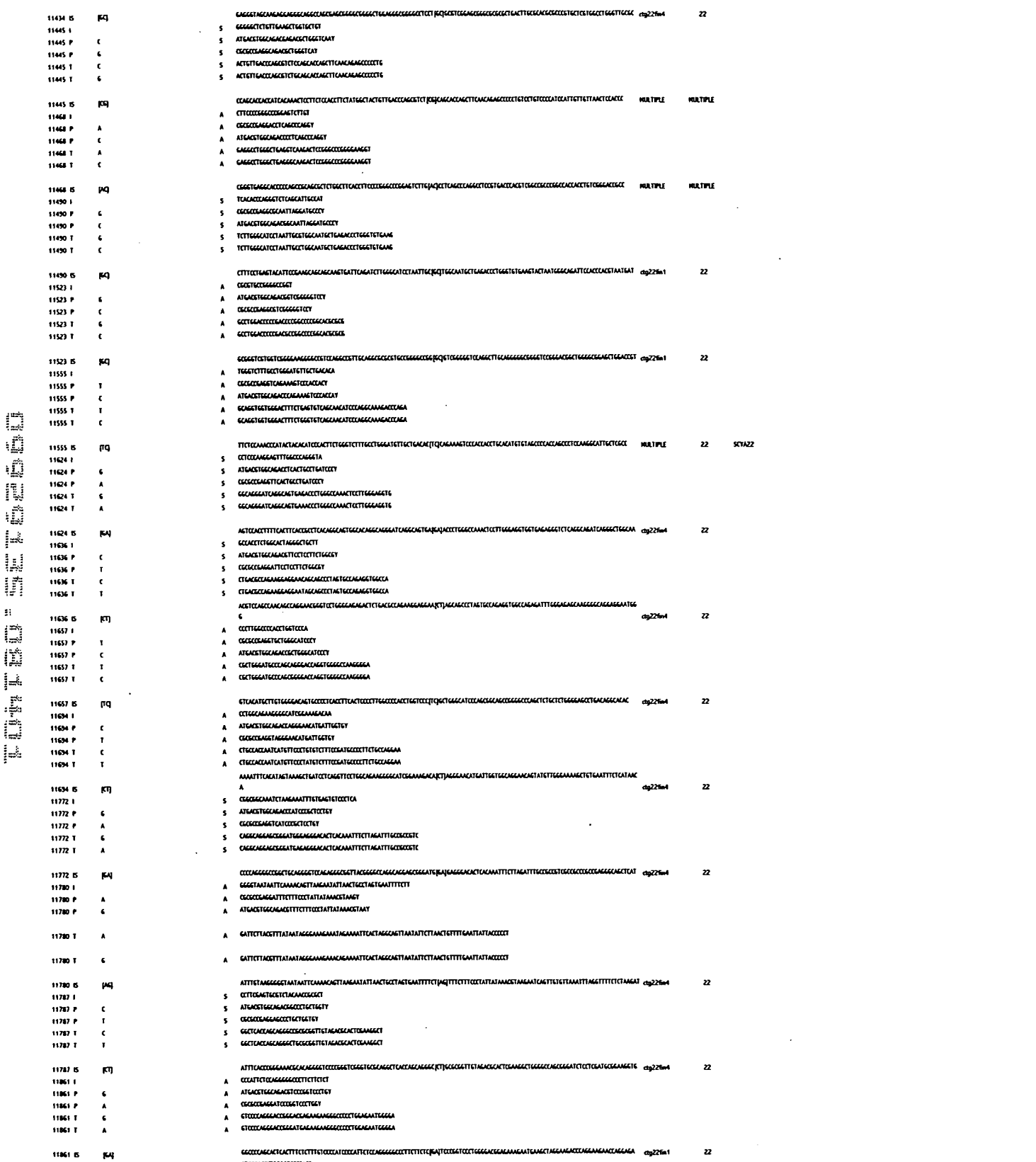


FIGURE 129F

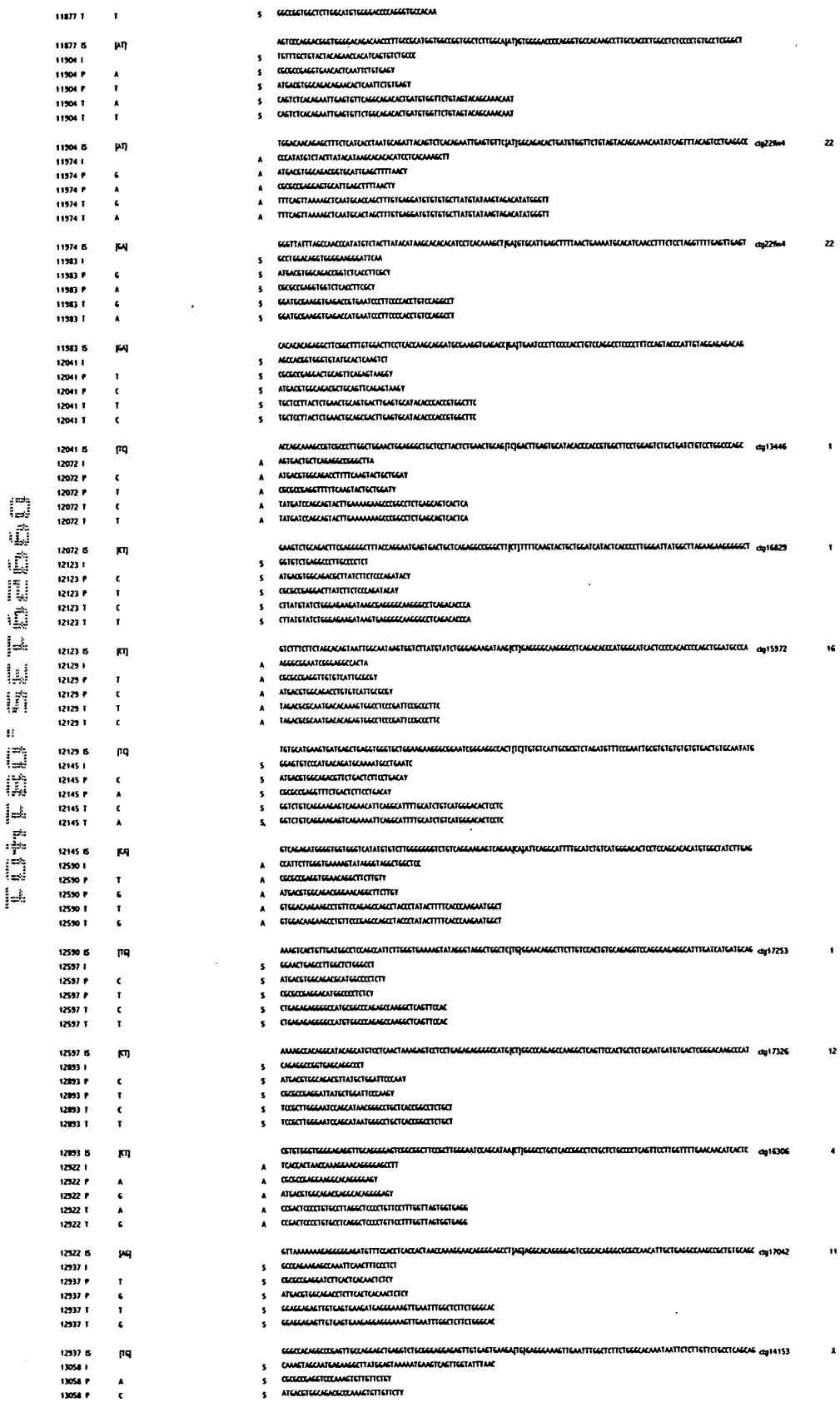


FIGURE 129F

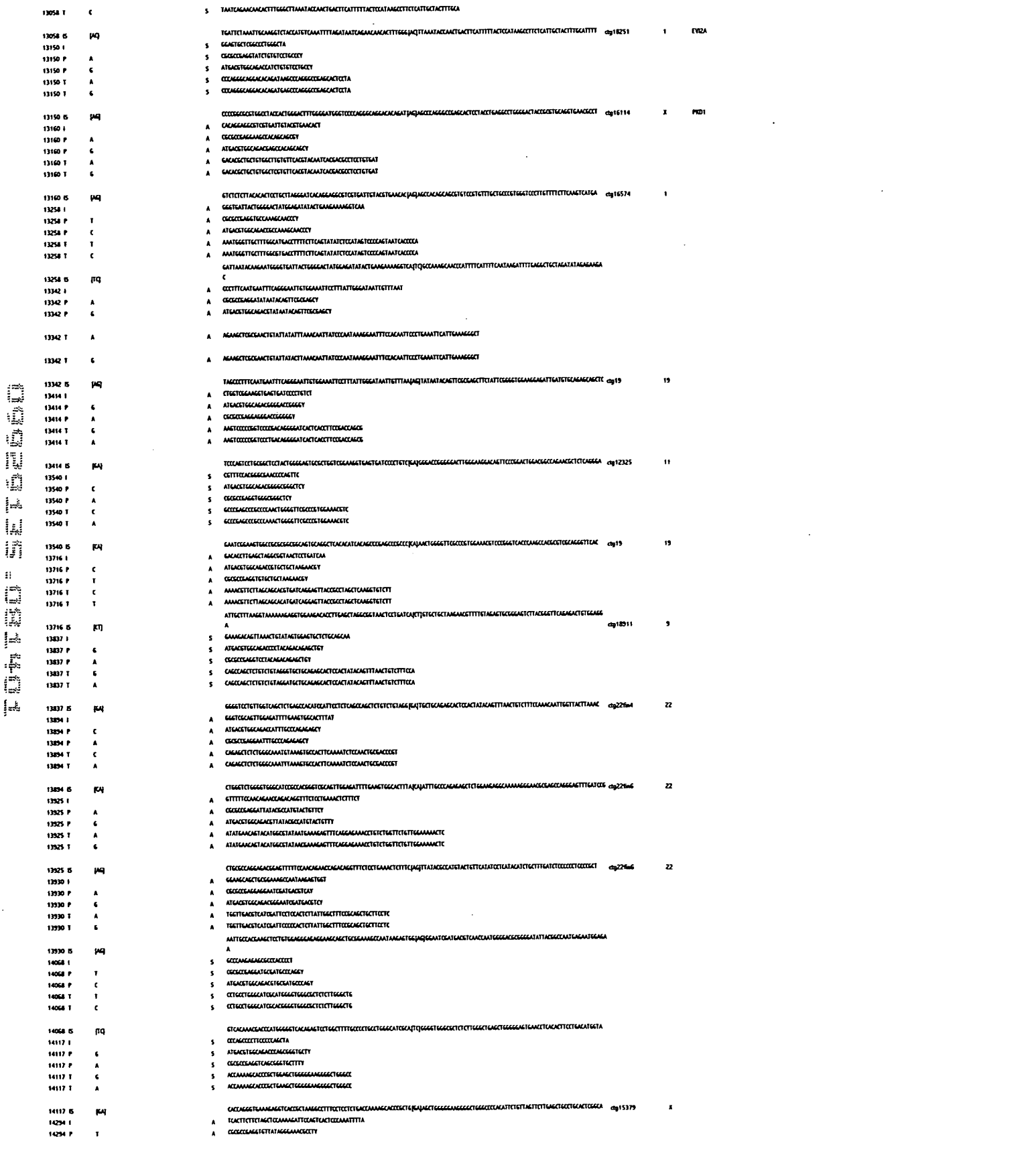


FIGURE 129F

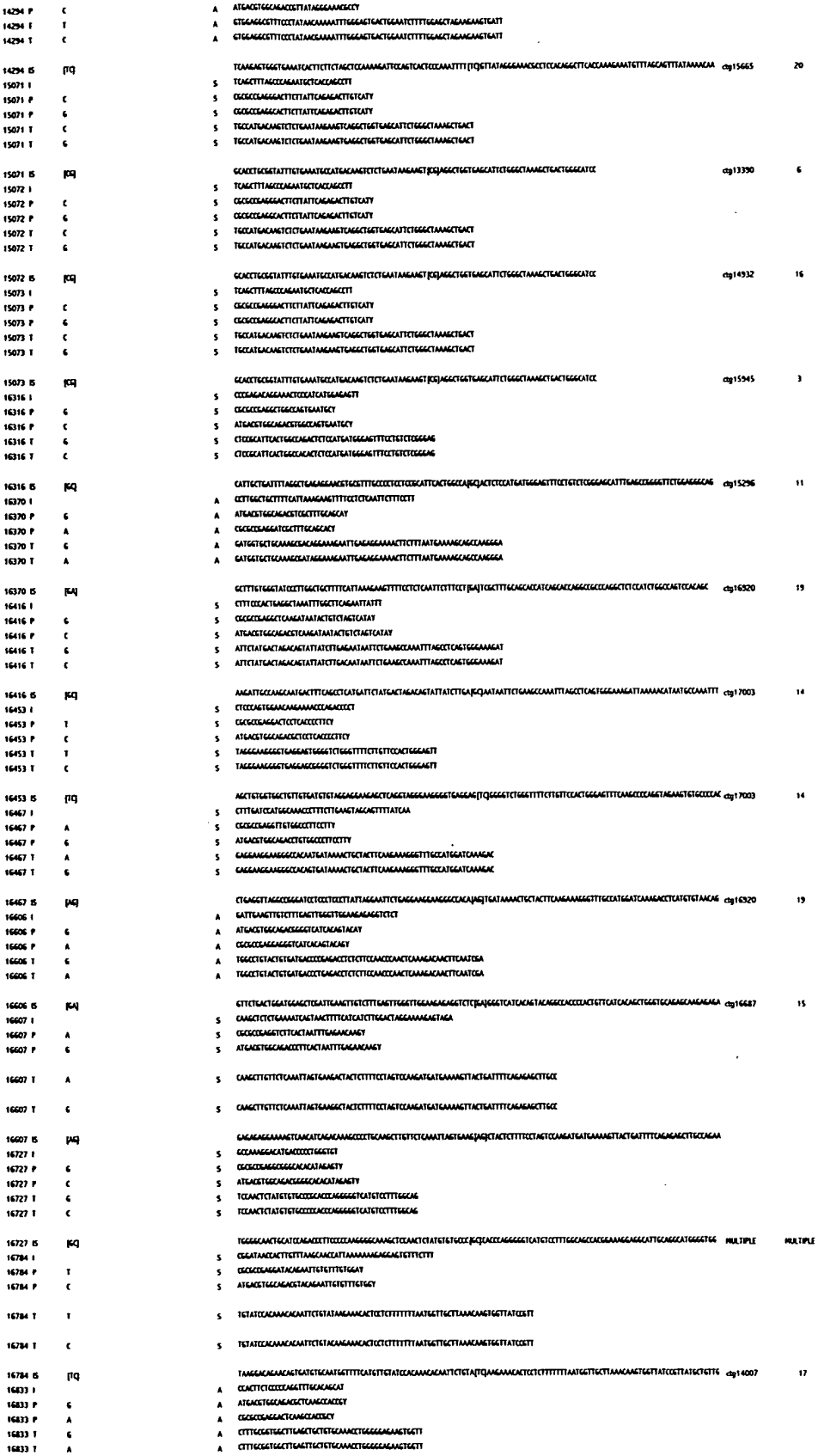


FIGURE 129F

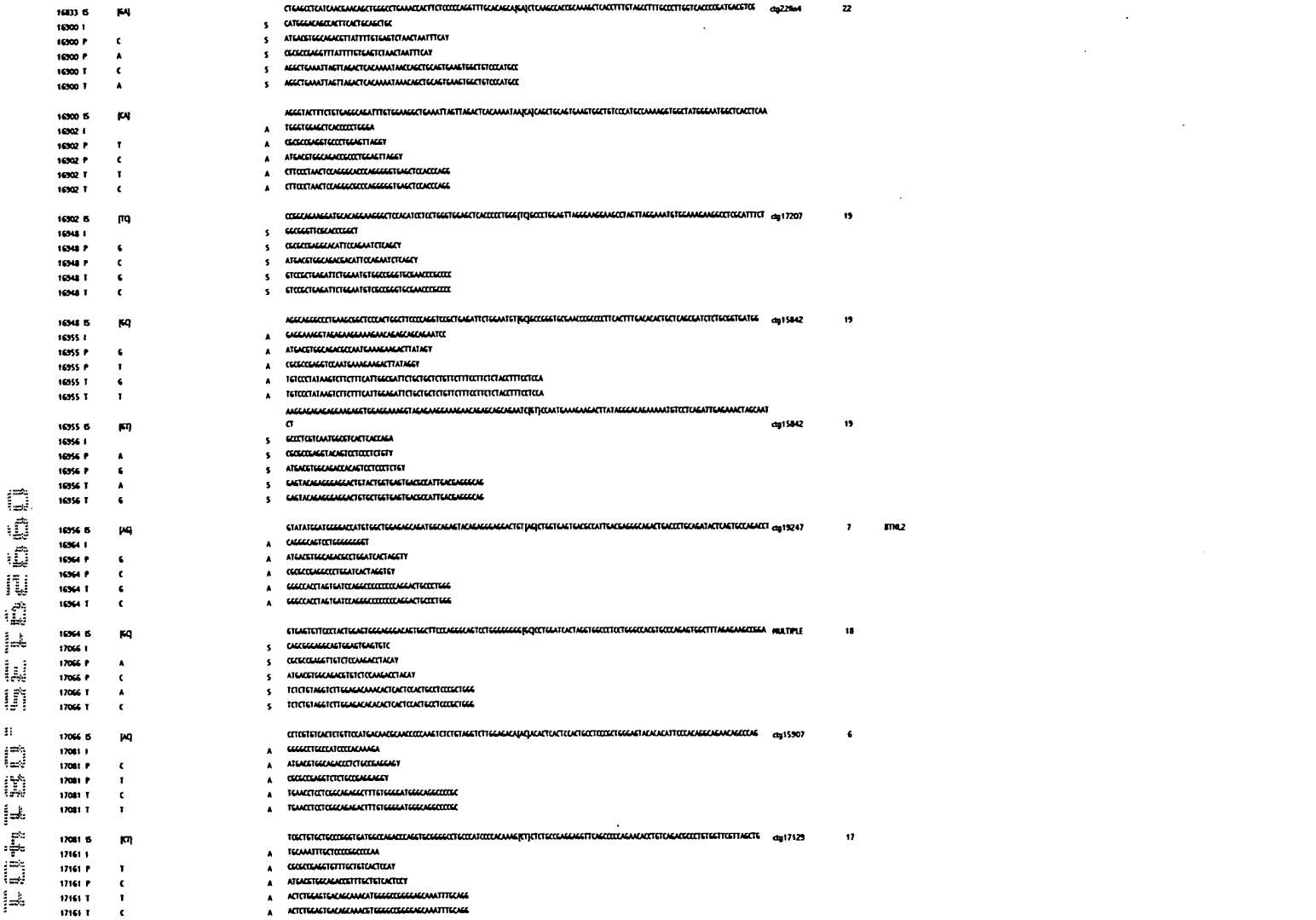


FIGURE 129F

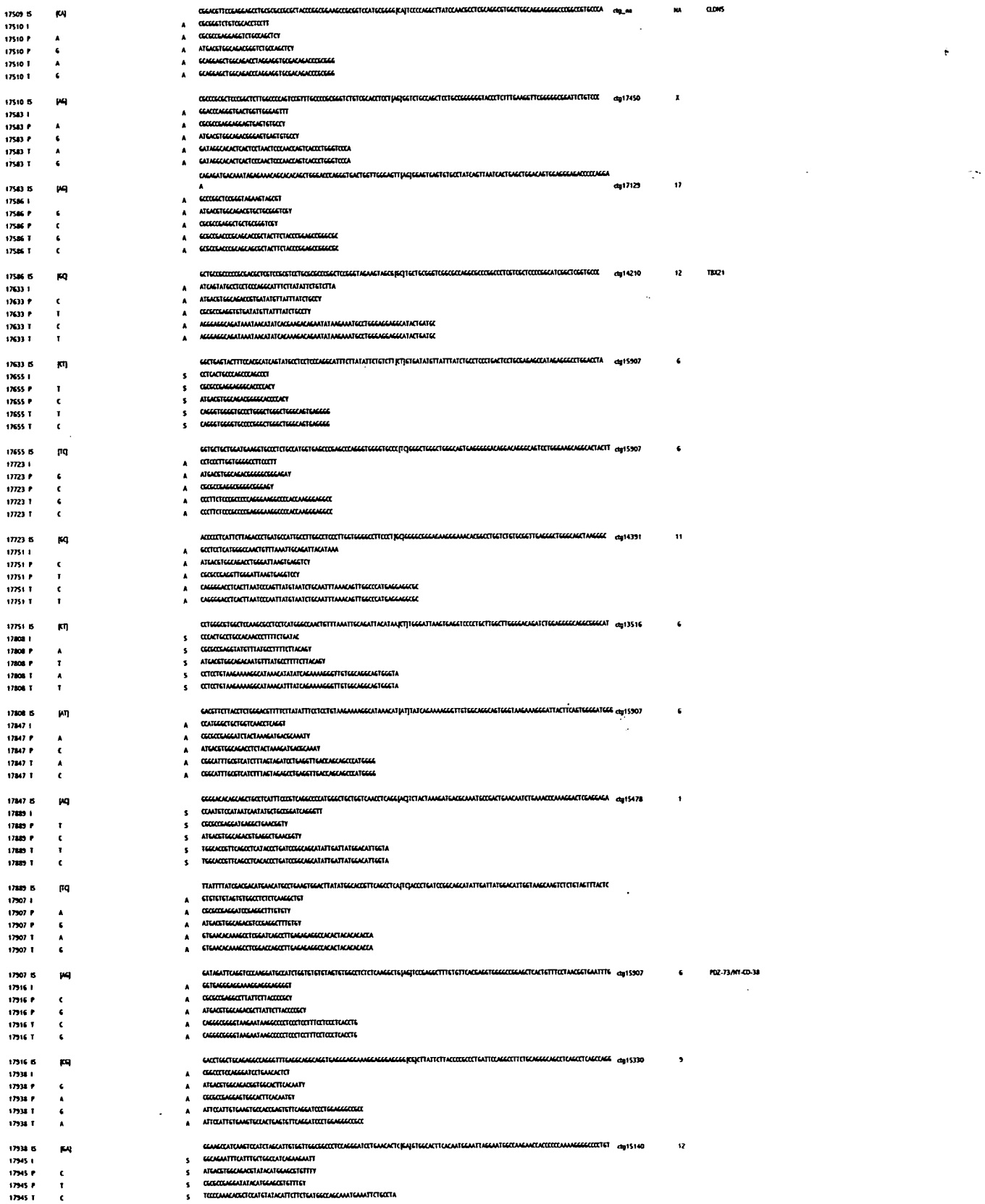


FIGURE 129F

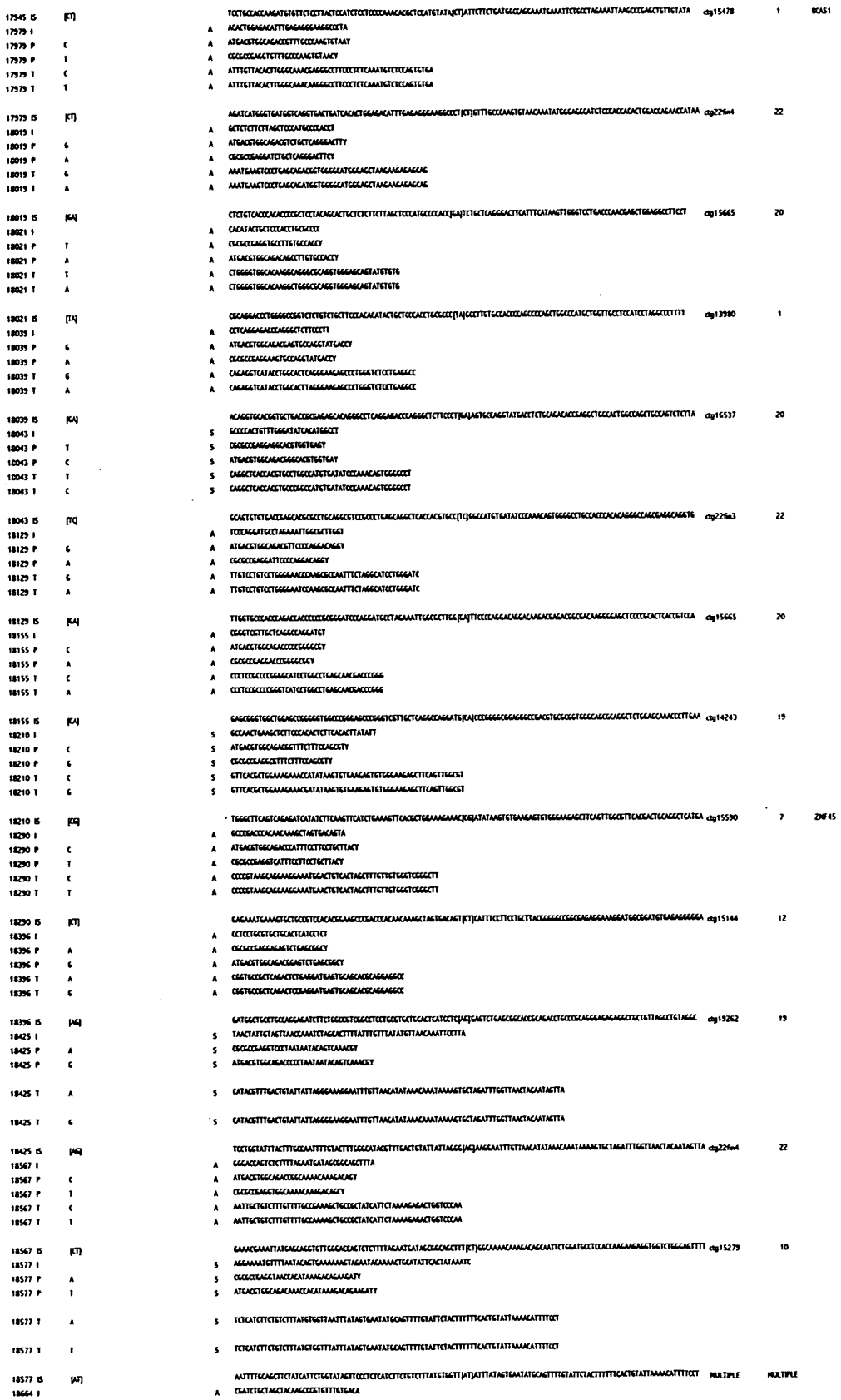


FIGURE 129F

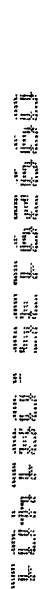


FIGURE 129F

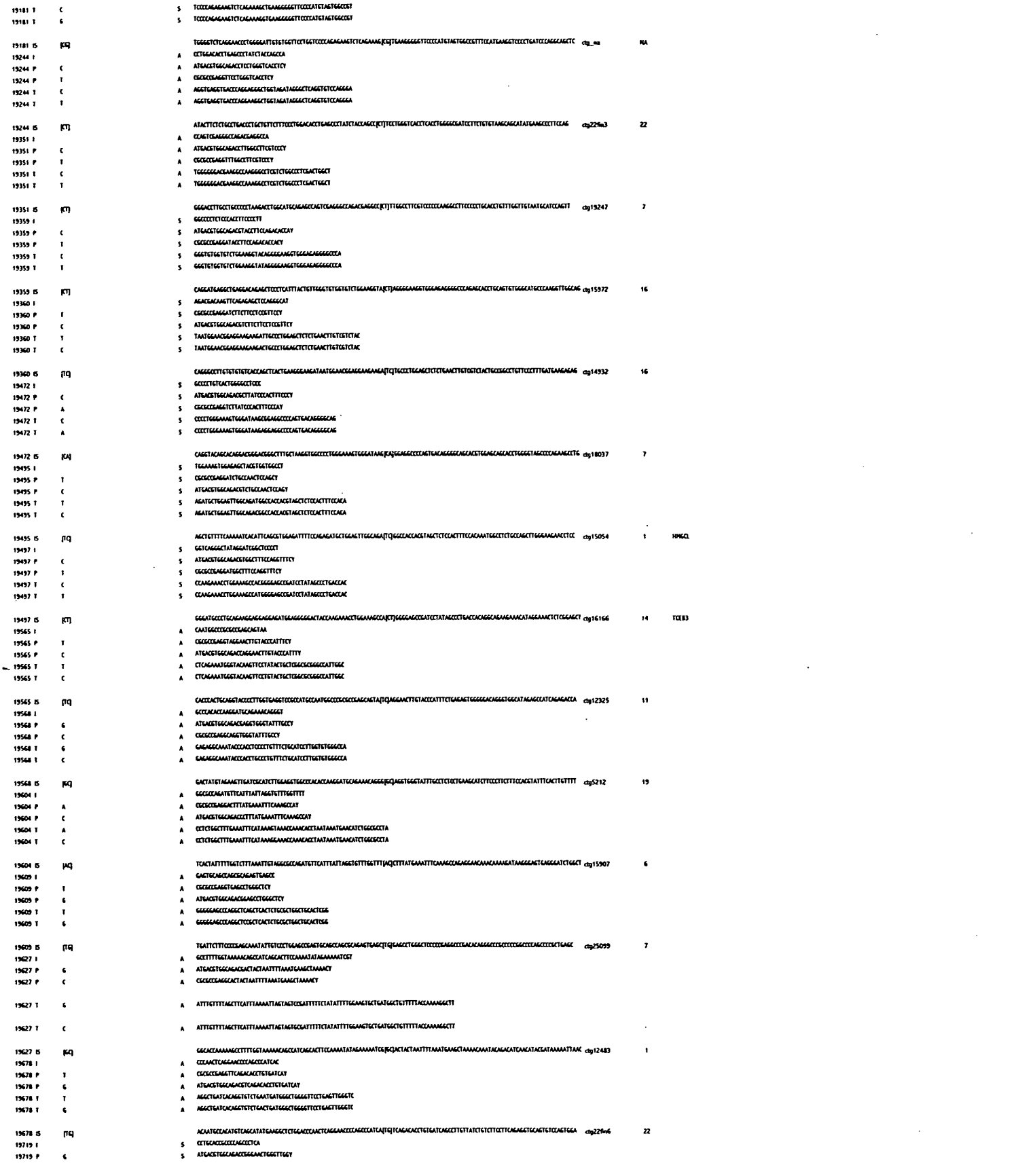
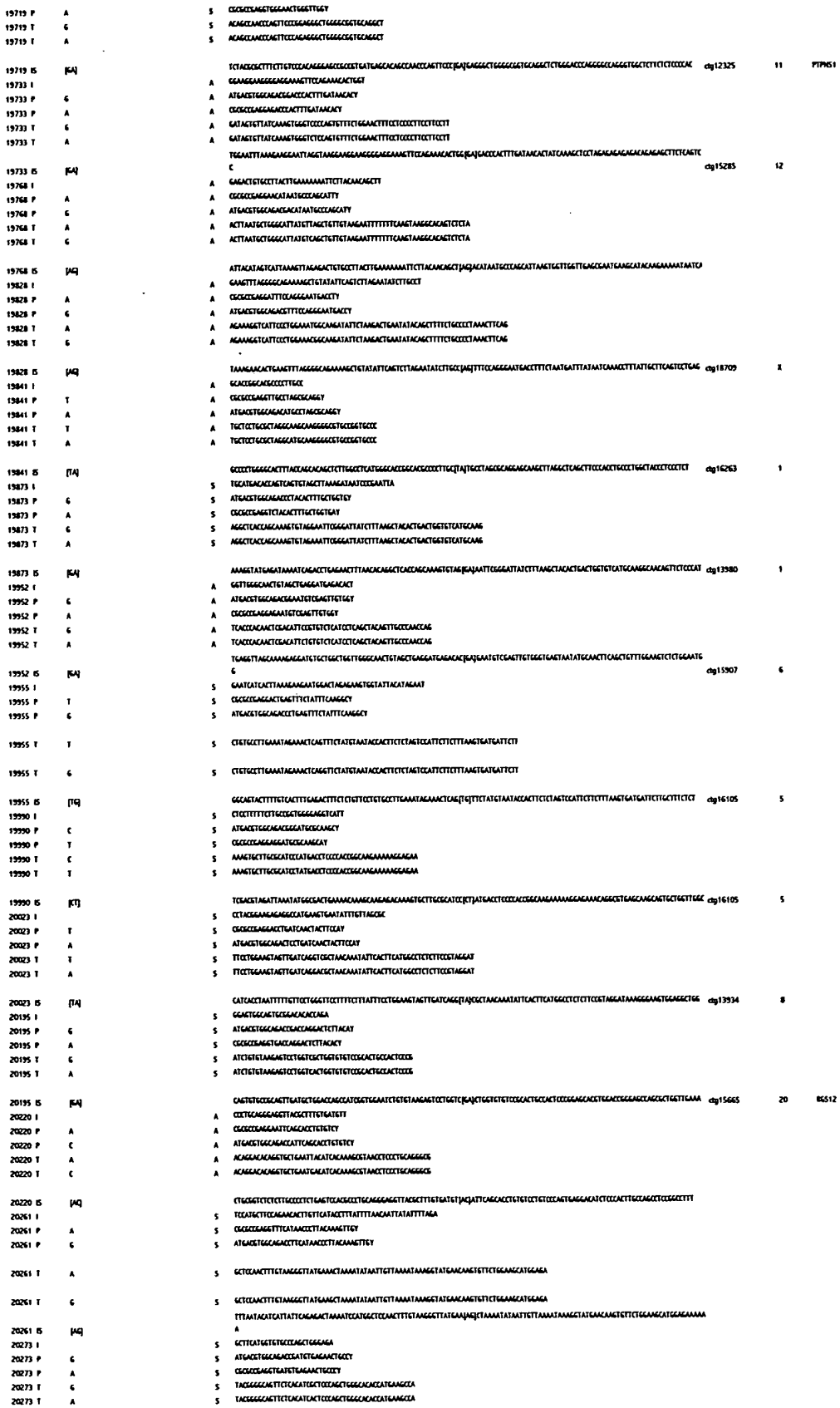
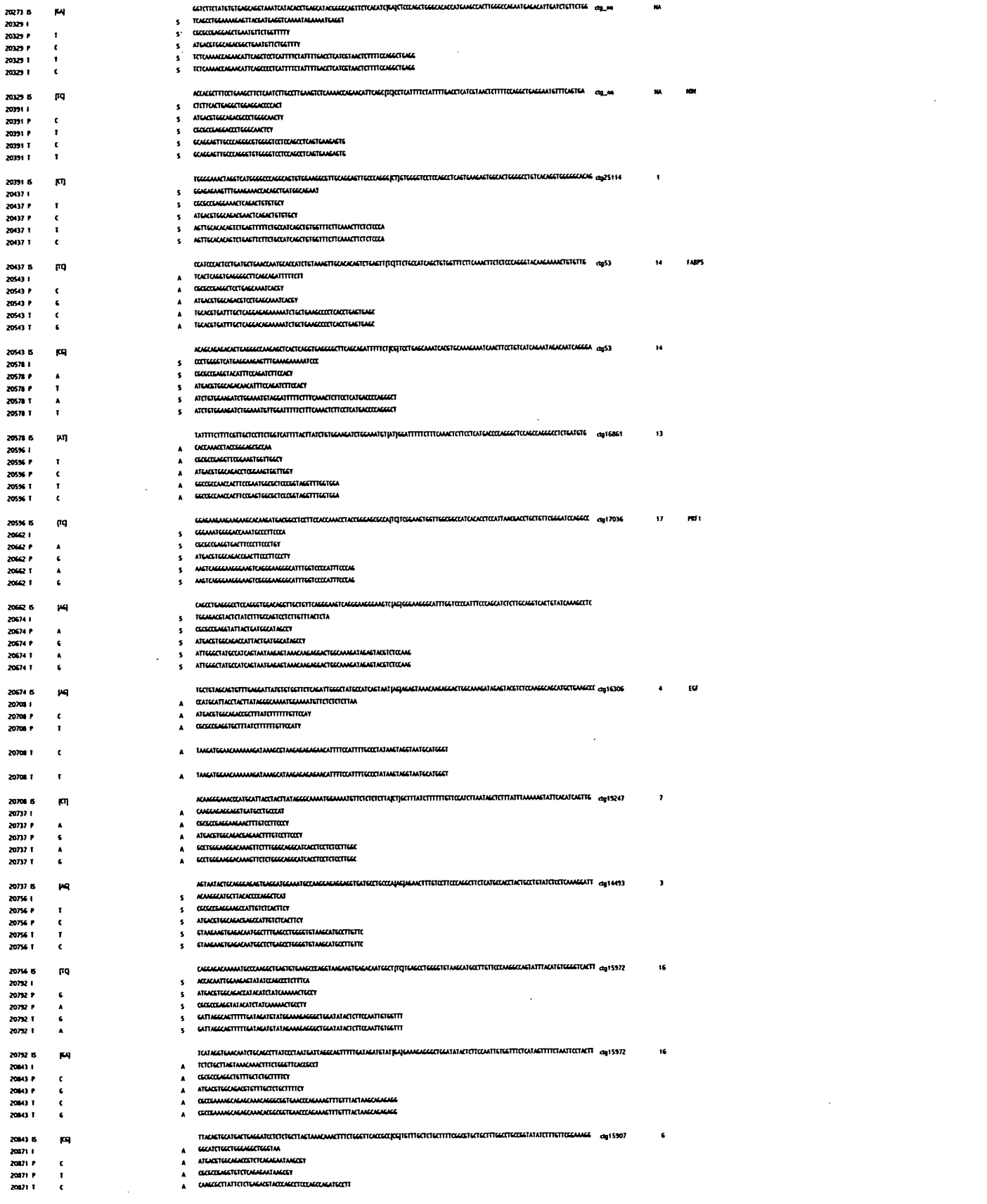
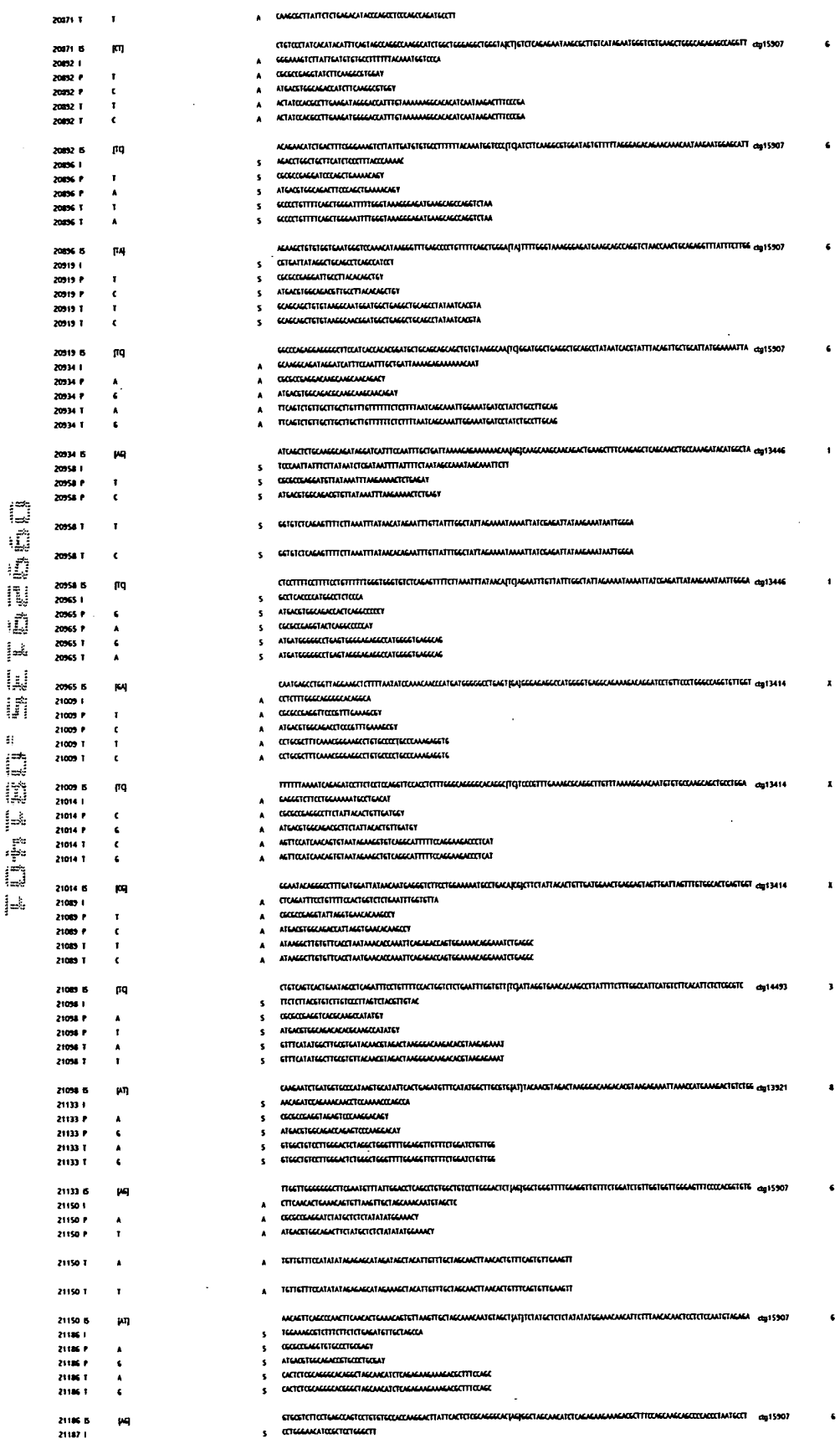


FIGURE 129F


19719 P A S
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19733 T A A
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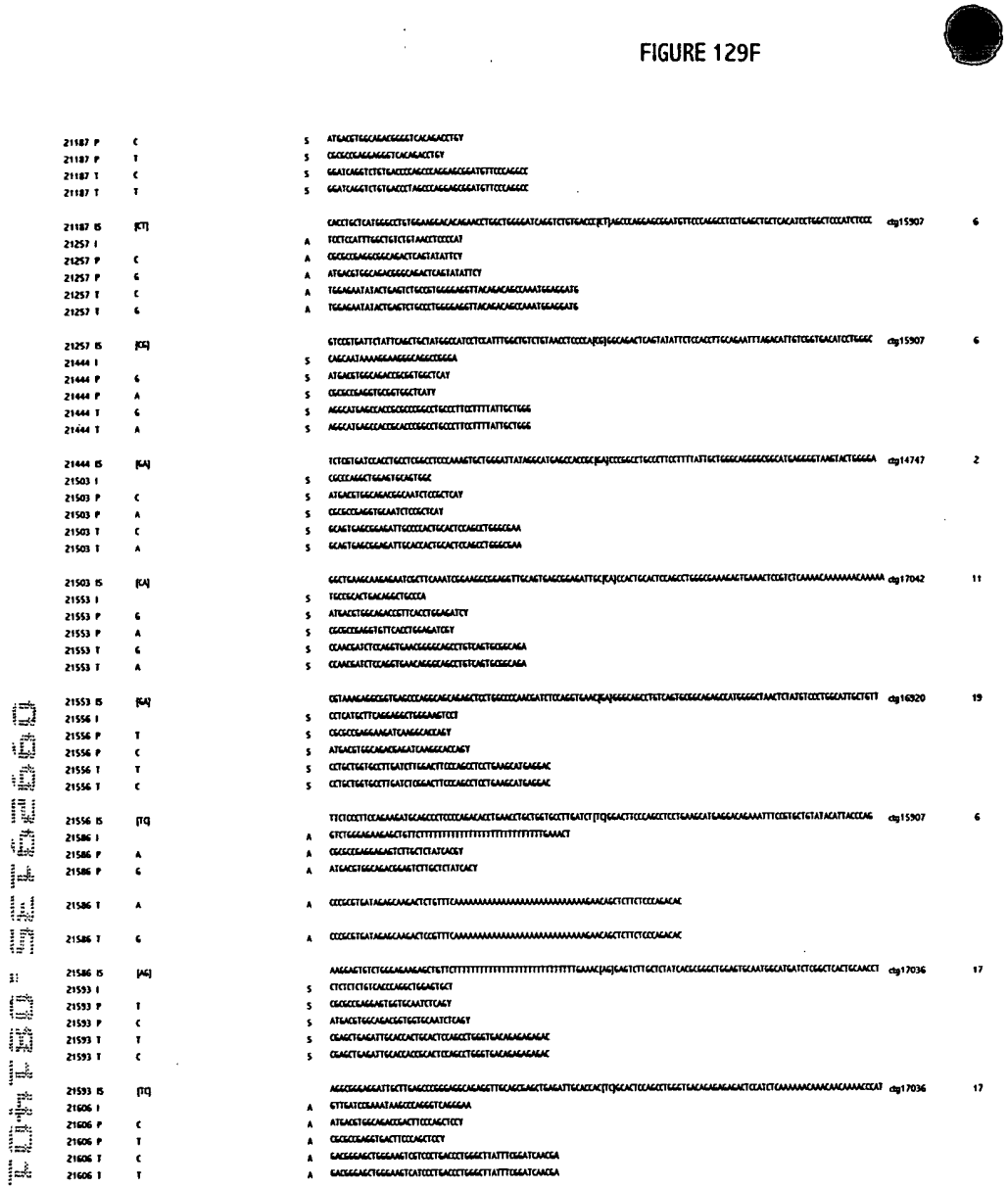
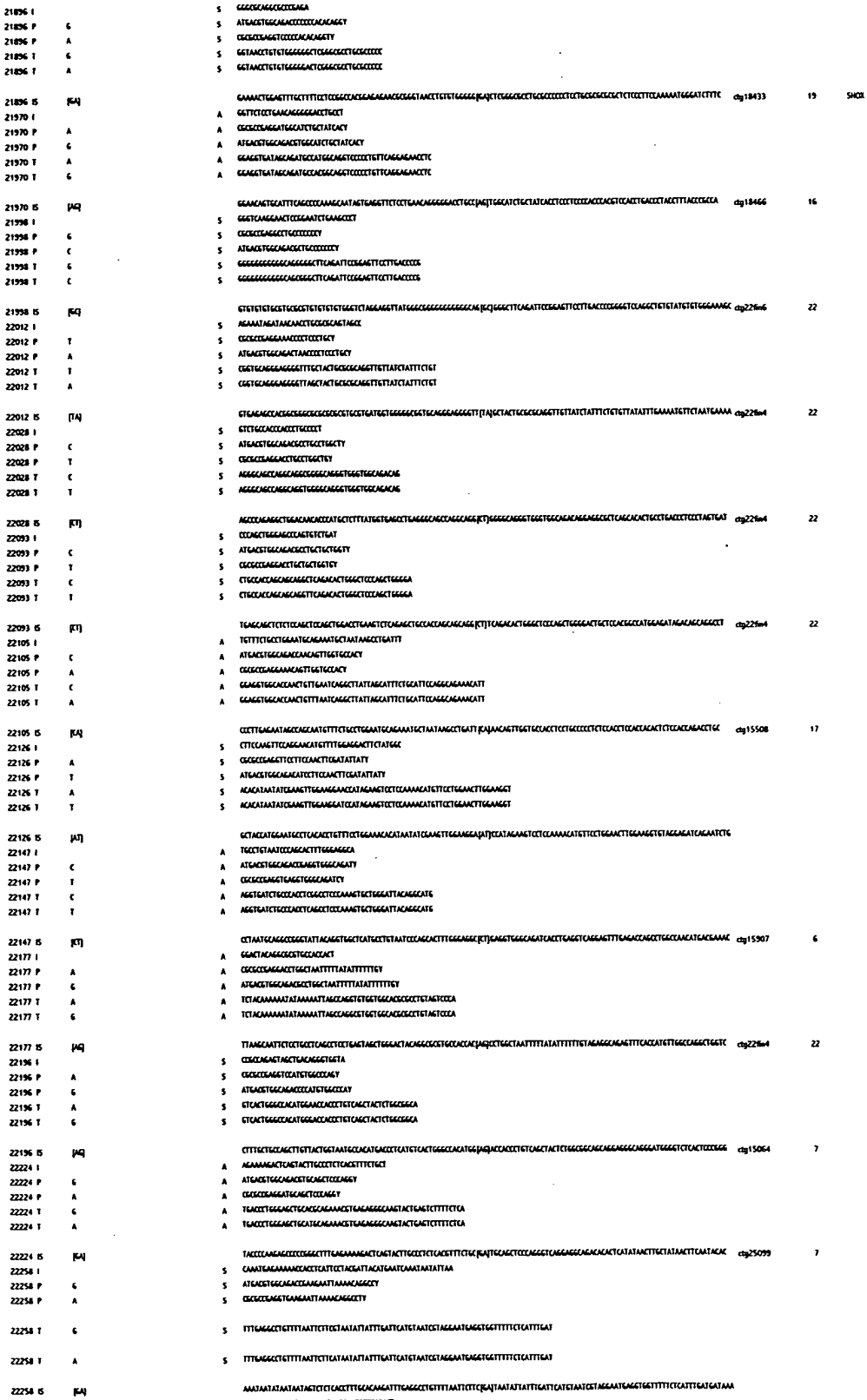
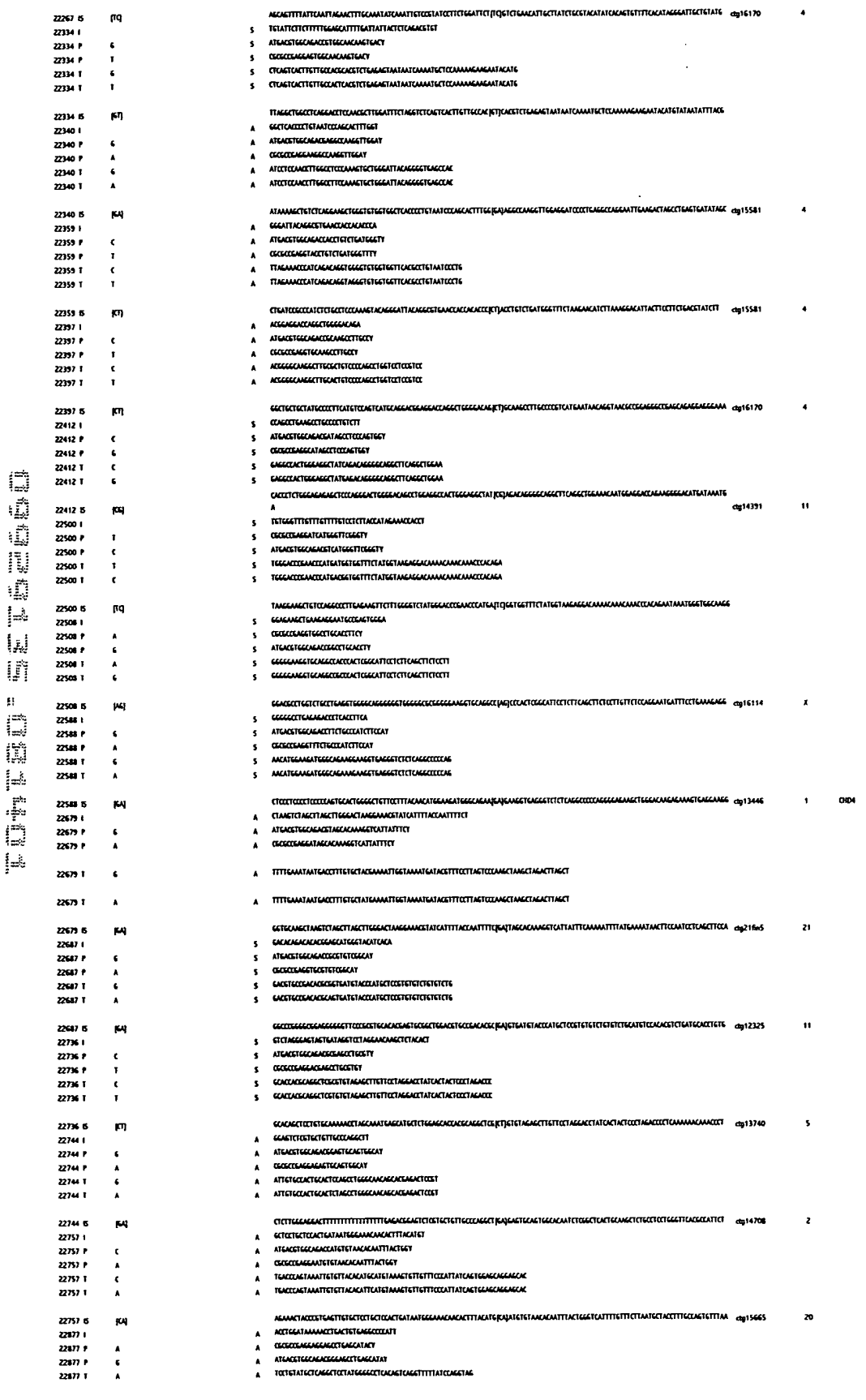


FIGURE 129F





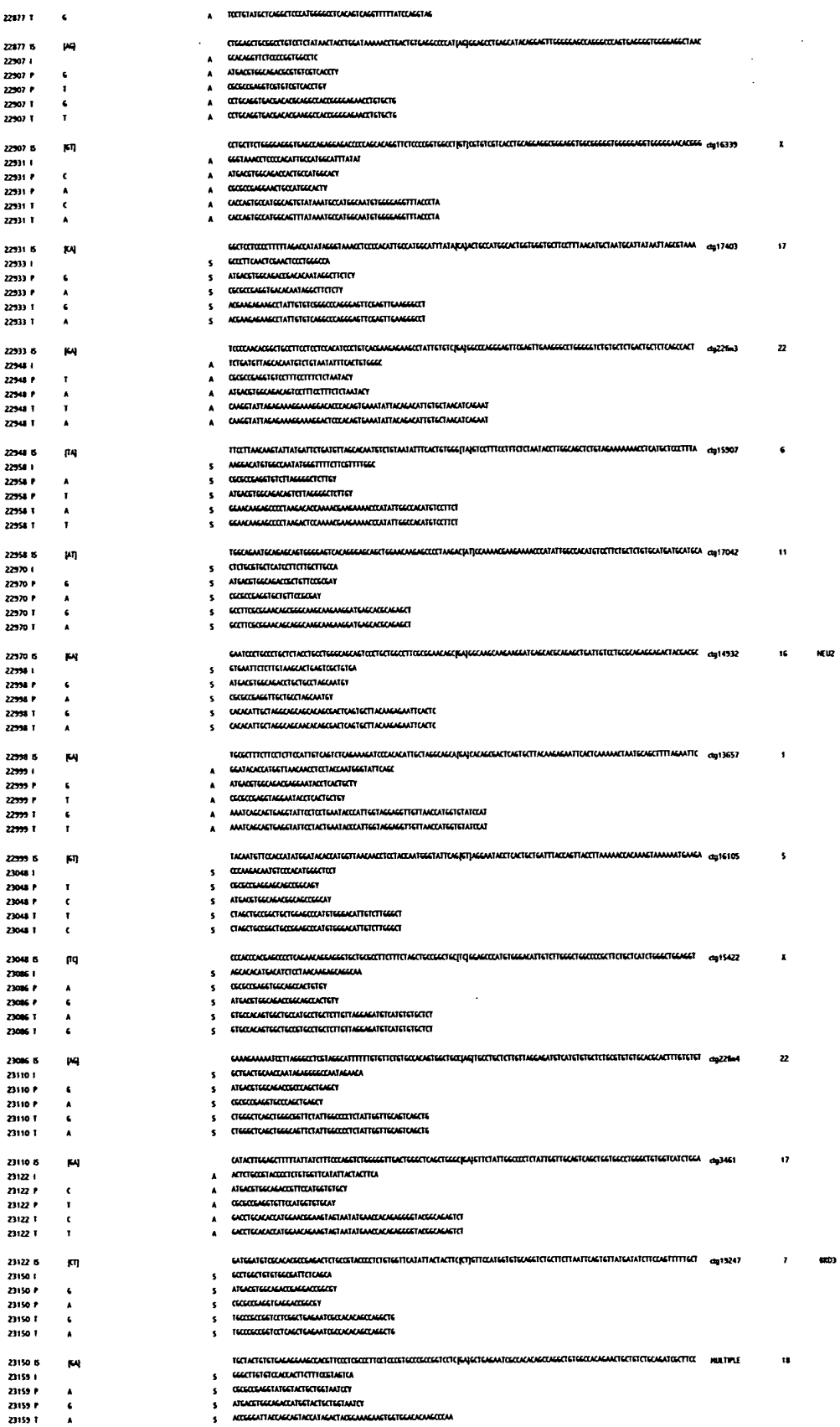


FIGURE 129F

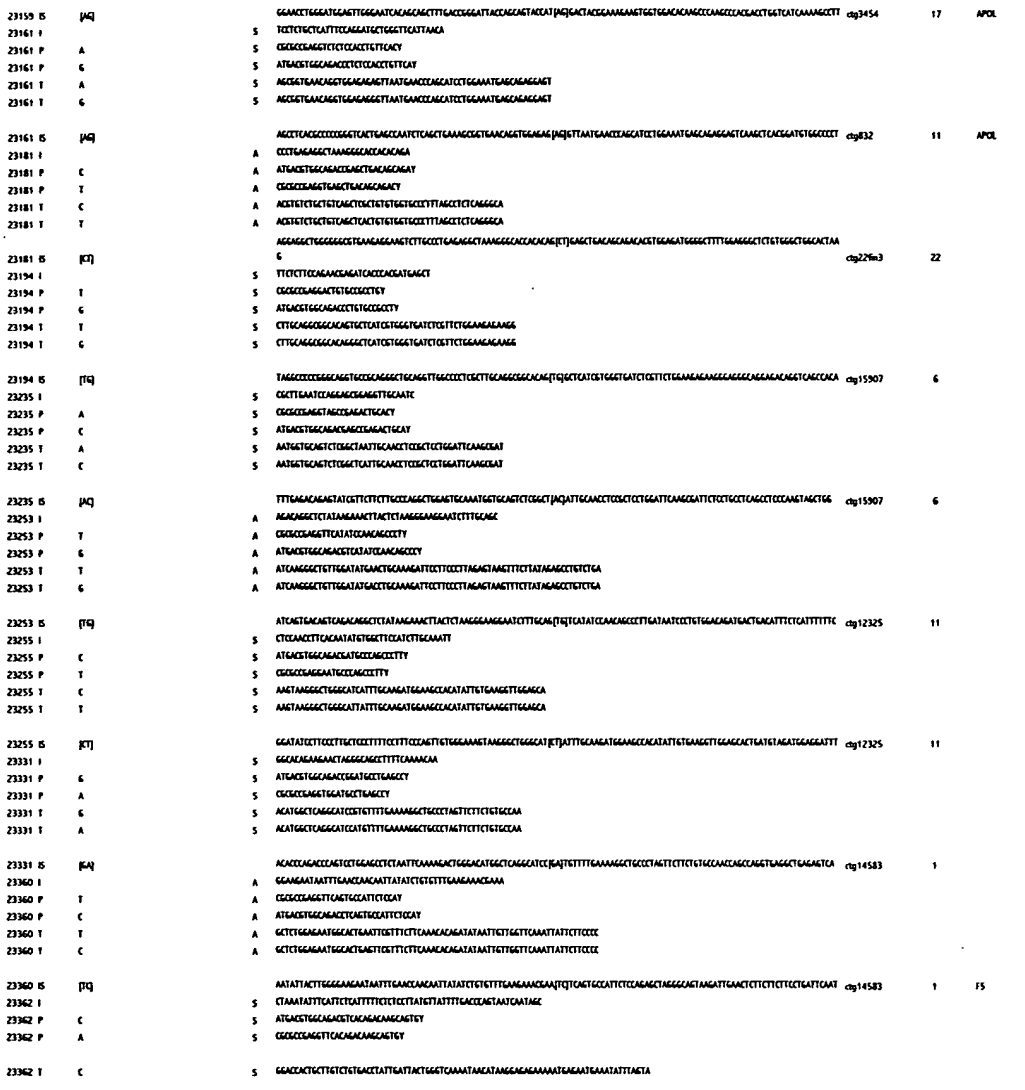


FIGURE 129F

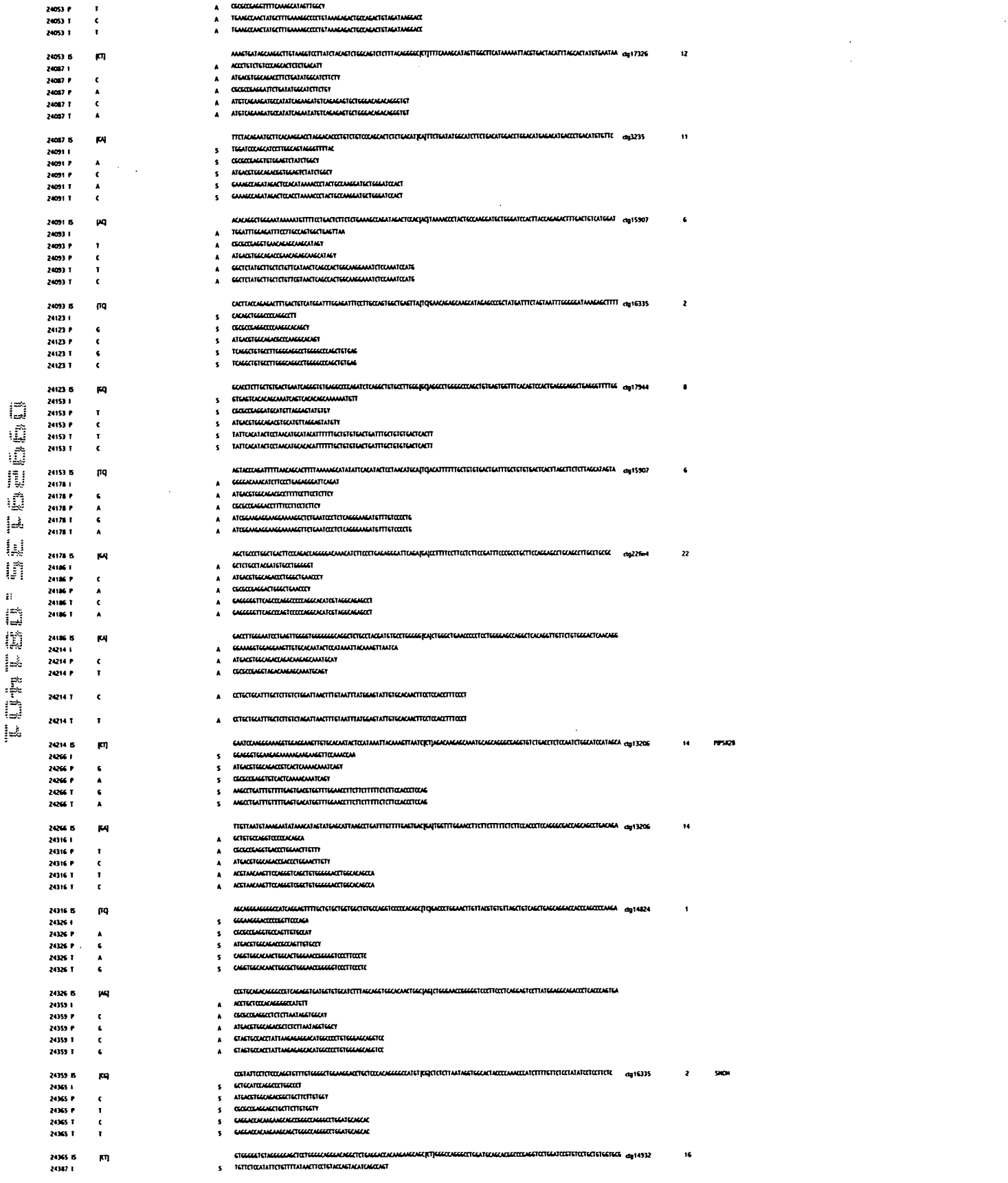
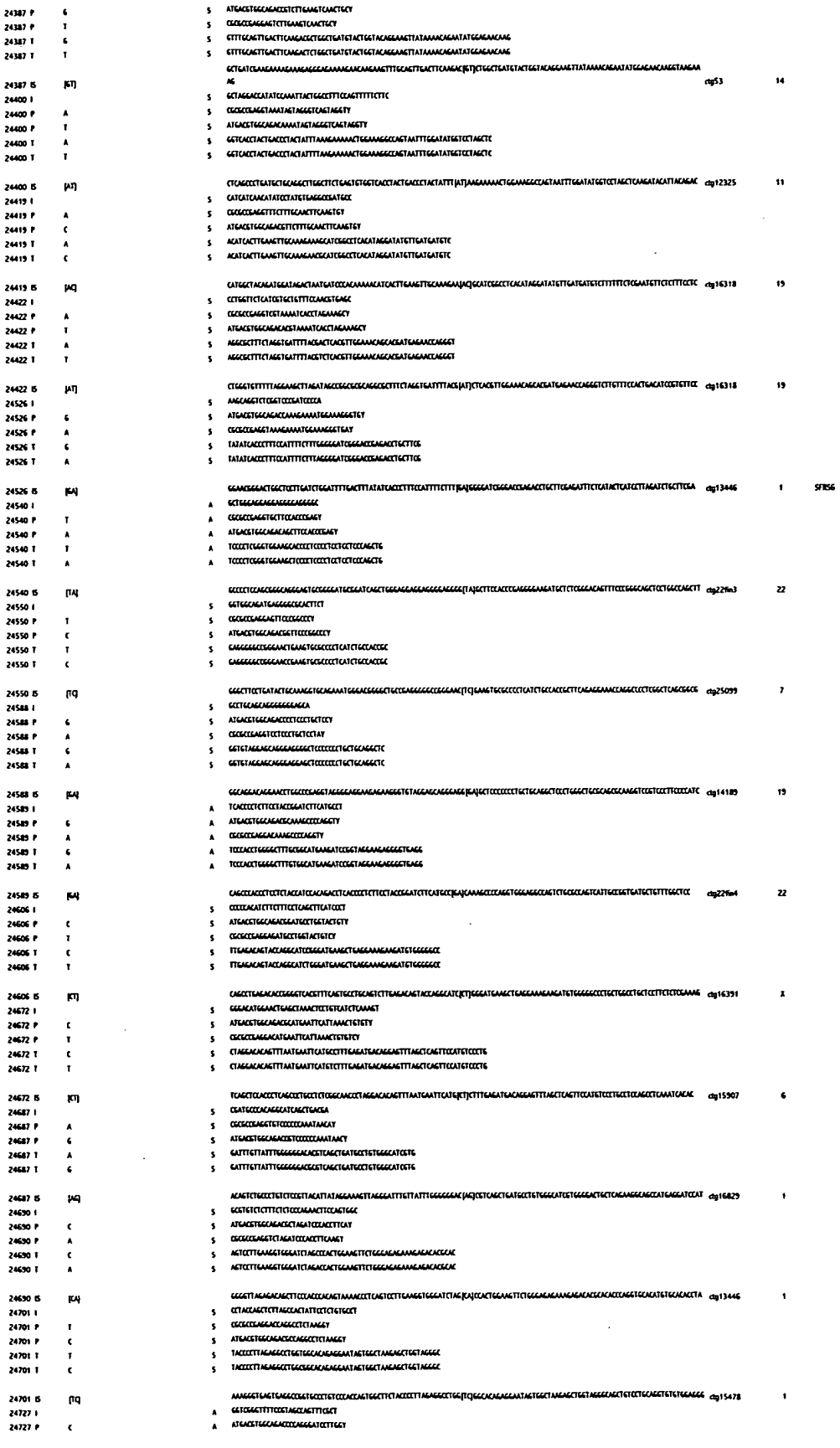


FIGURE 129F



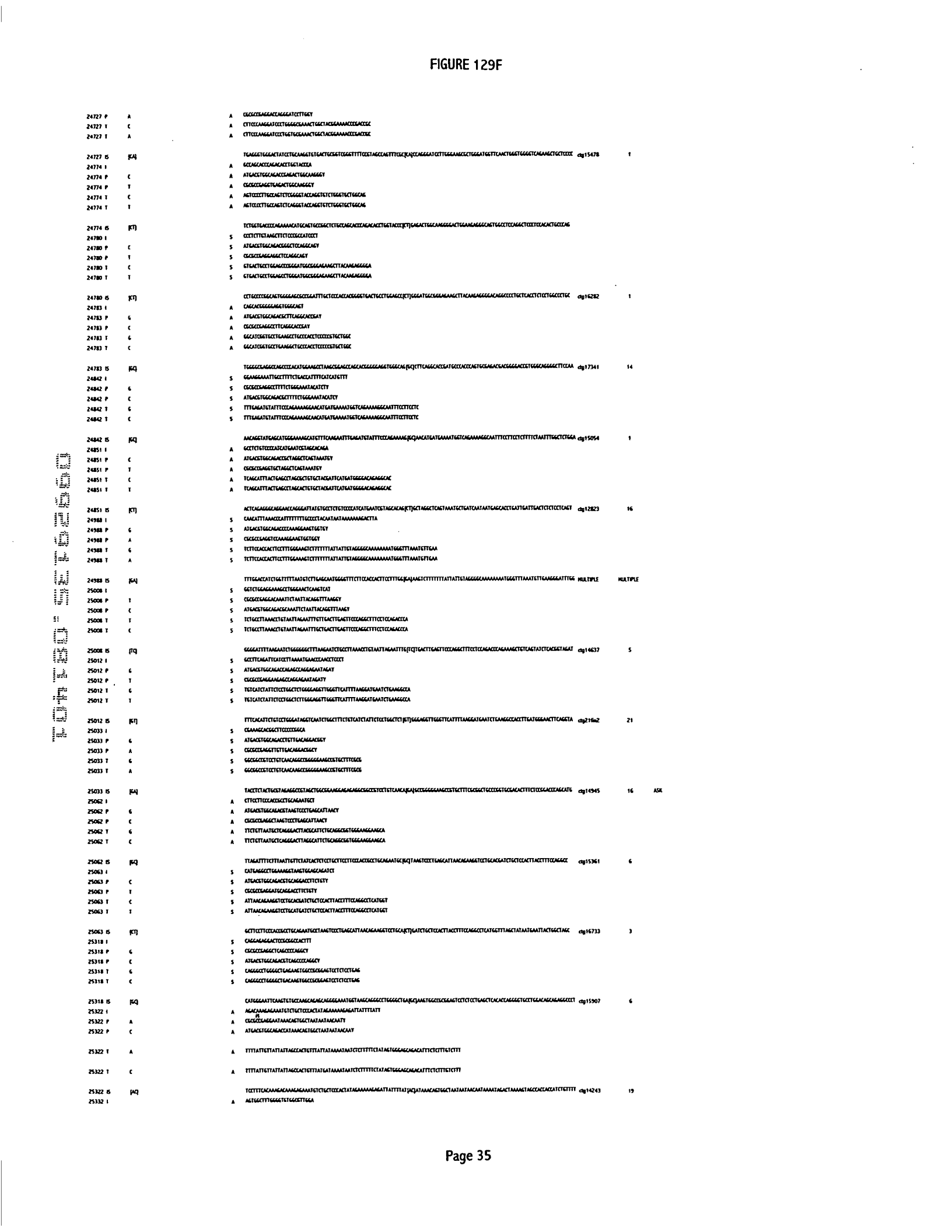


FIGURE 129F

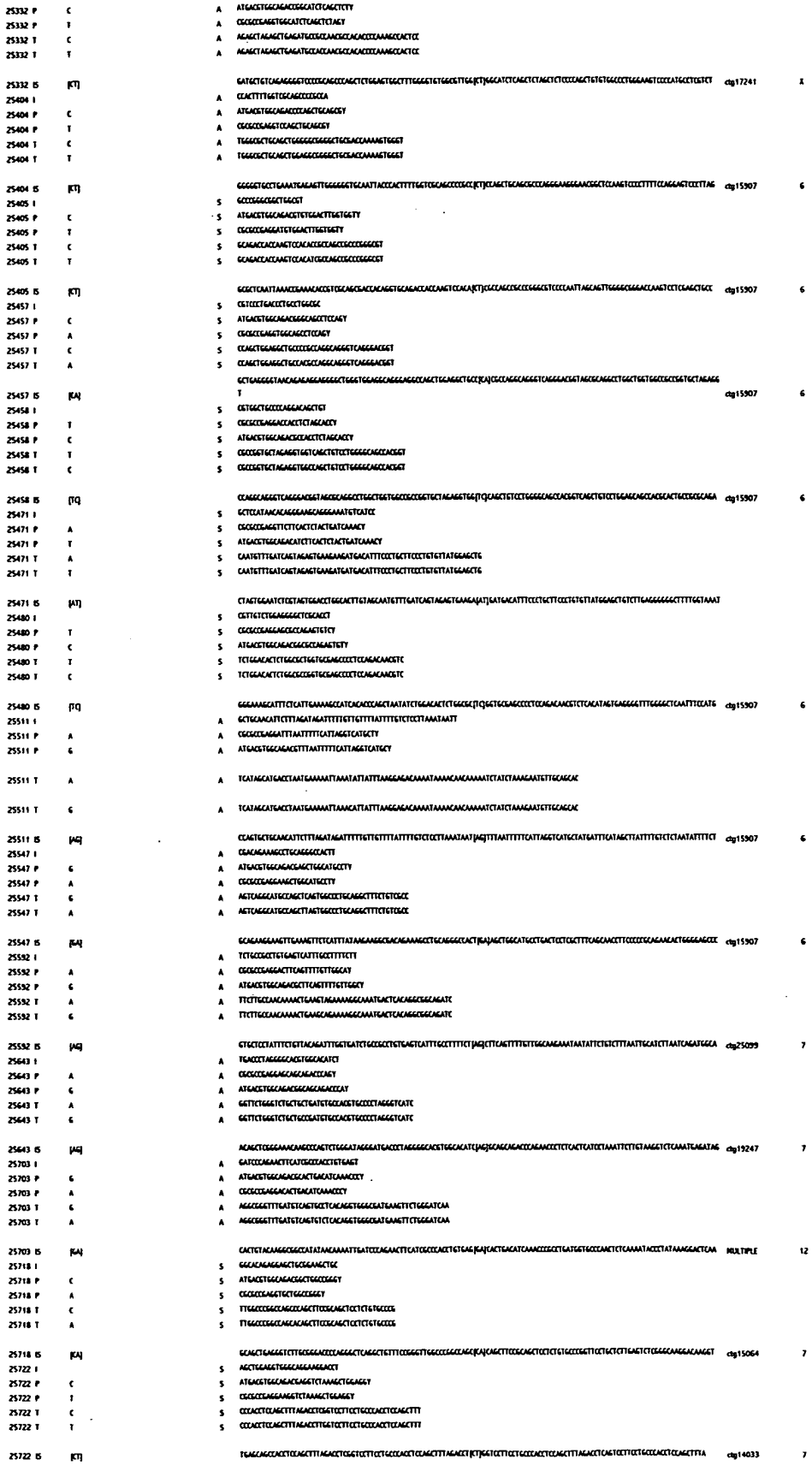


FIGURE 129F

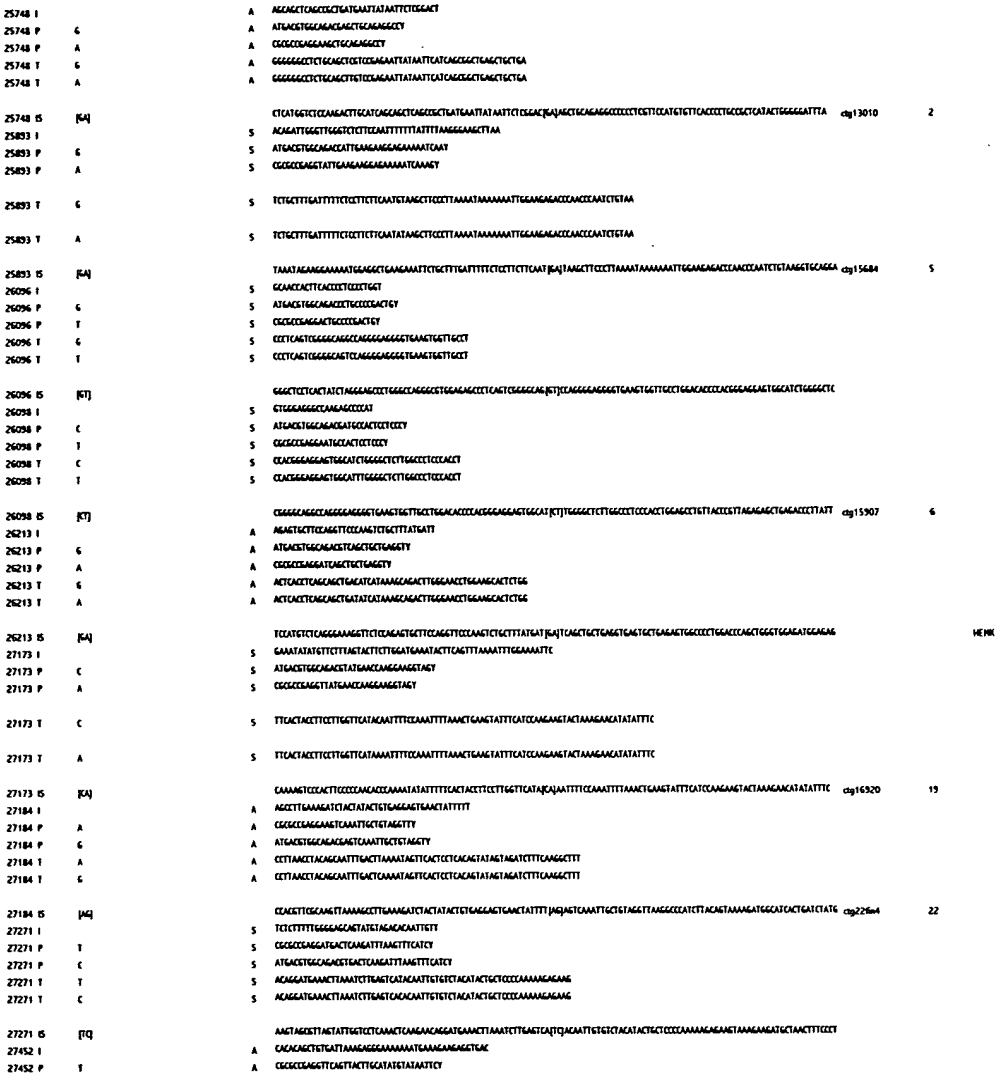
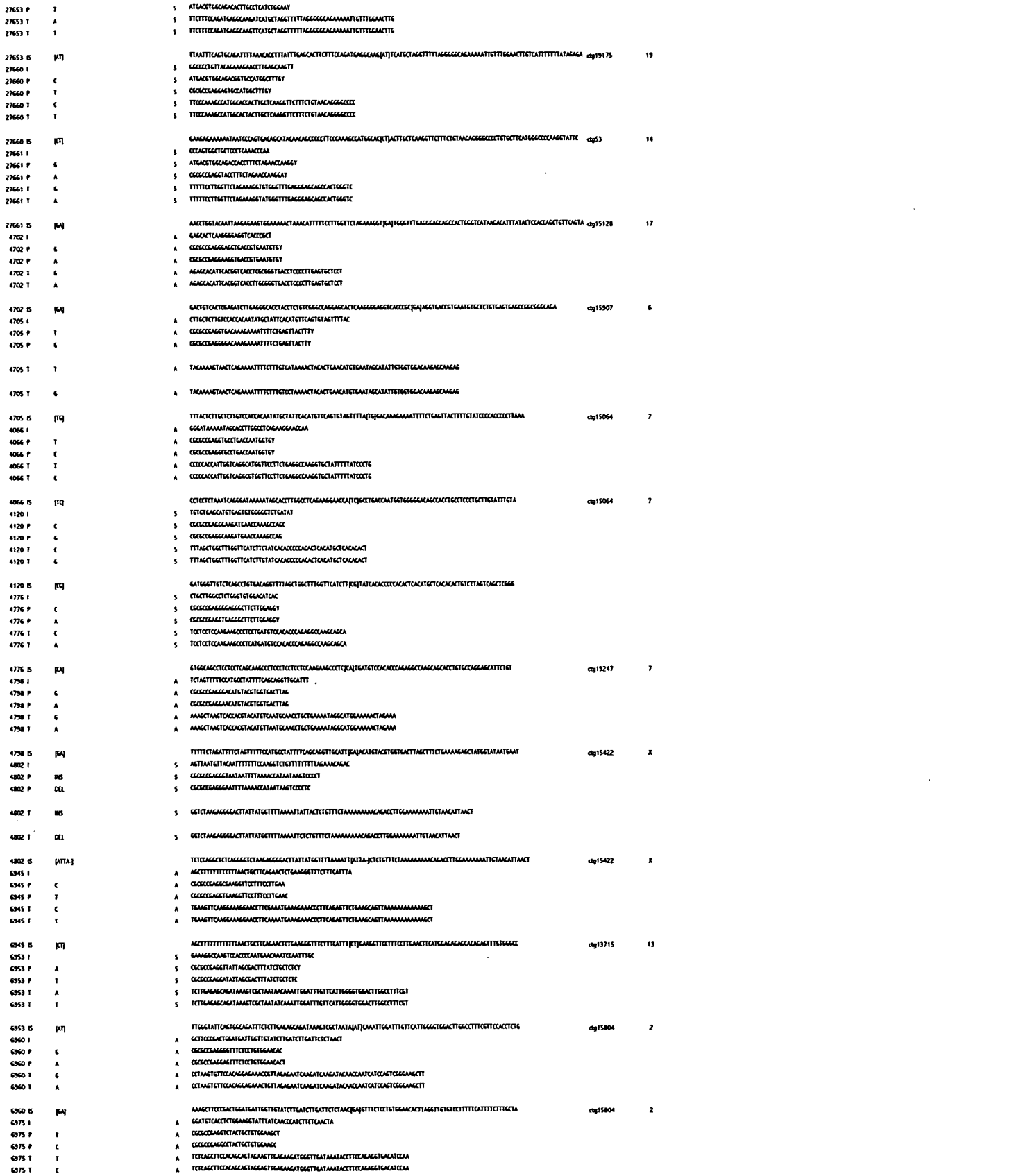


FIGURE 129F







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Docket No. 10191-2001-20

Inventor: Jia Xie, et al.

Title: Novel Human Kinase Proteins and Polynucleotides Encoding the Same

Sheet 129 of 129

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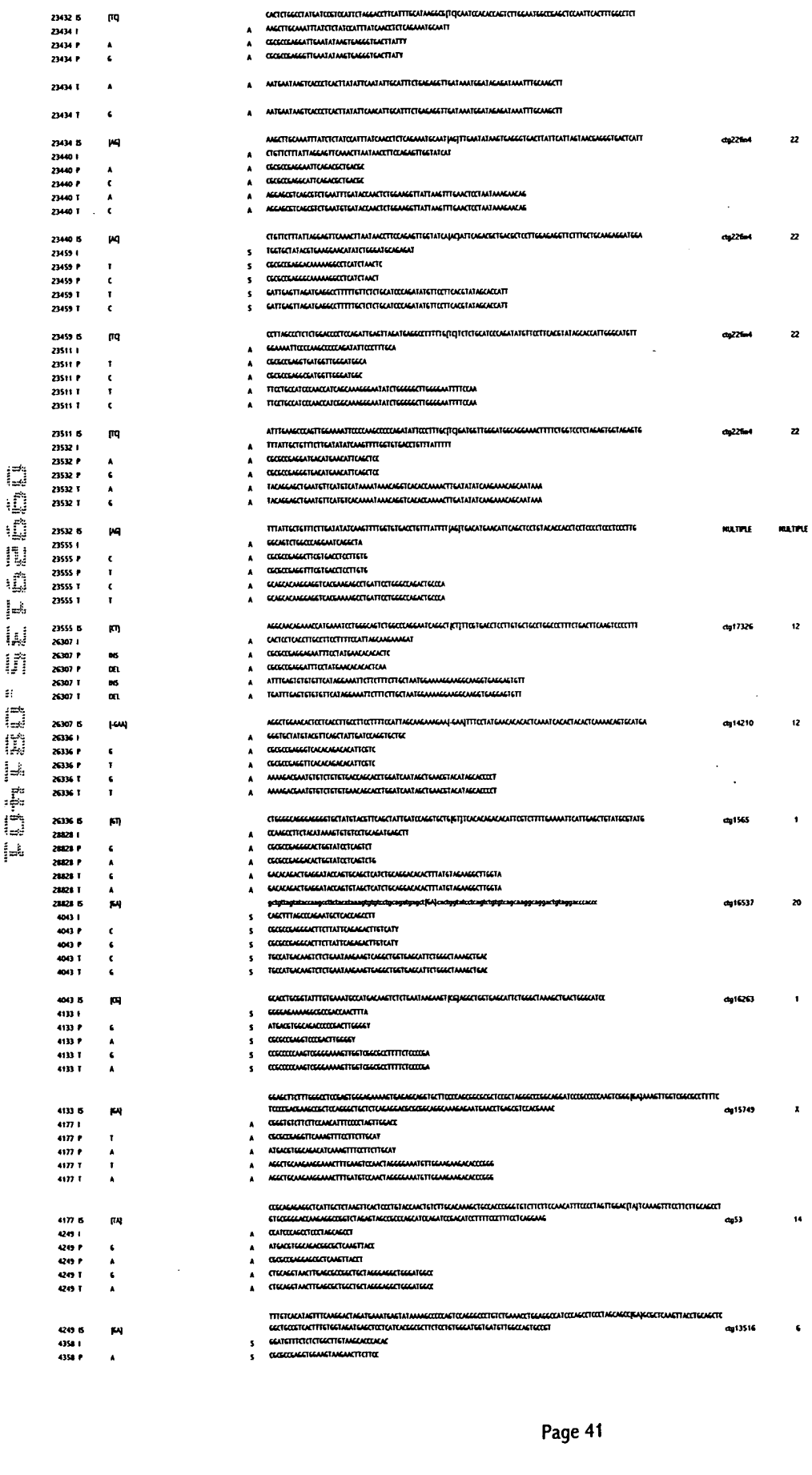
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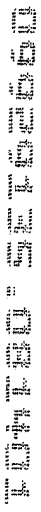
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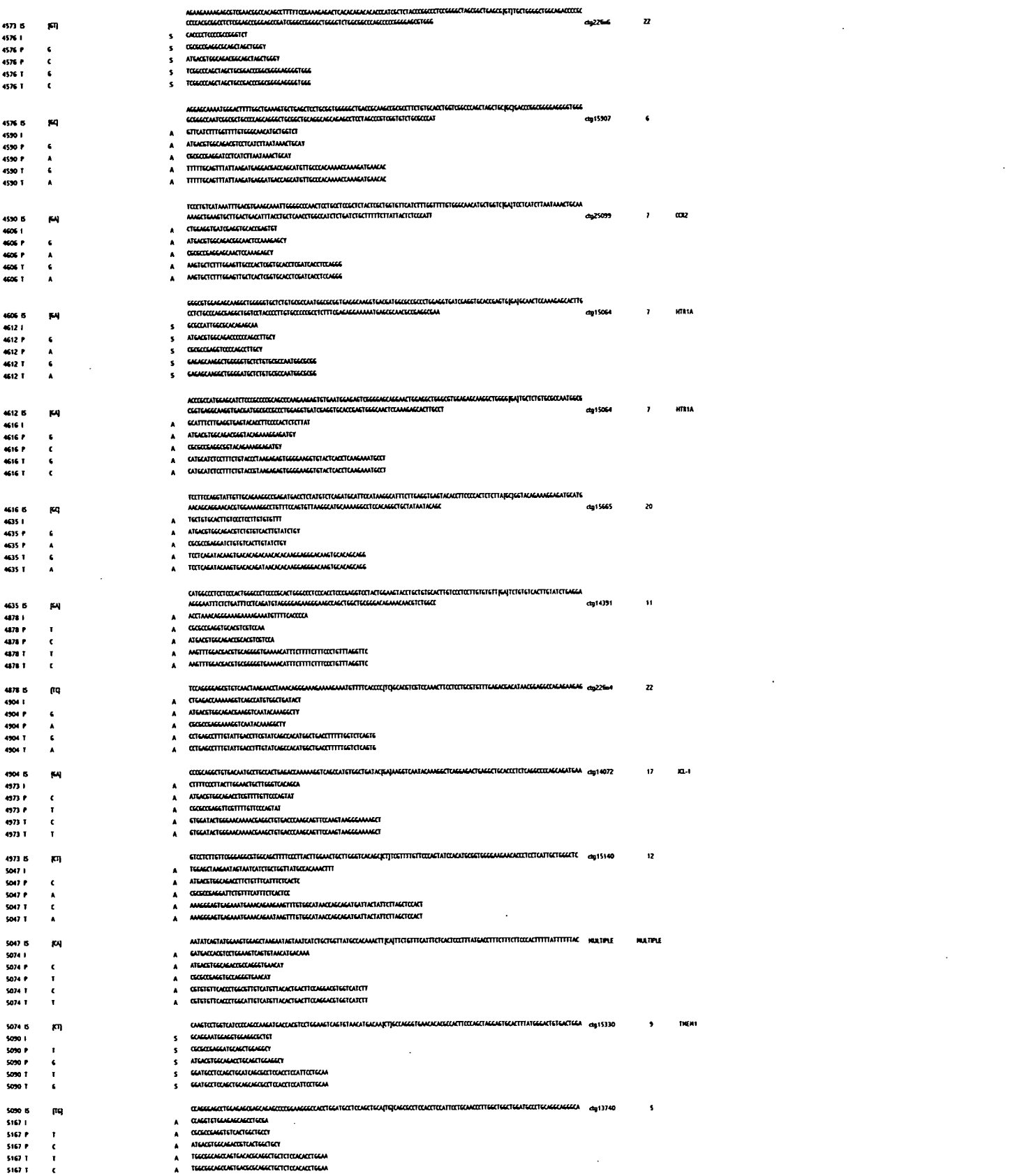
FIGURE 129F





Unpublished PCT/US03/40455 Applicant's Docket No. 2001P50837WO

FIGURE 129F


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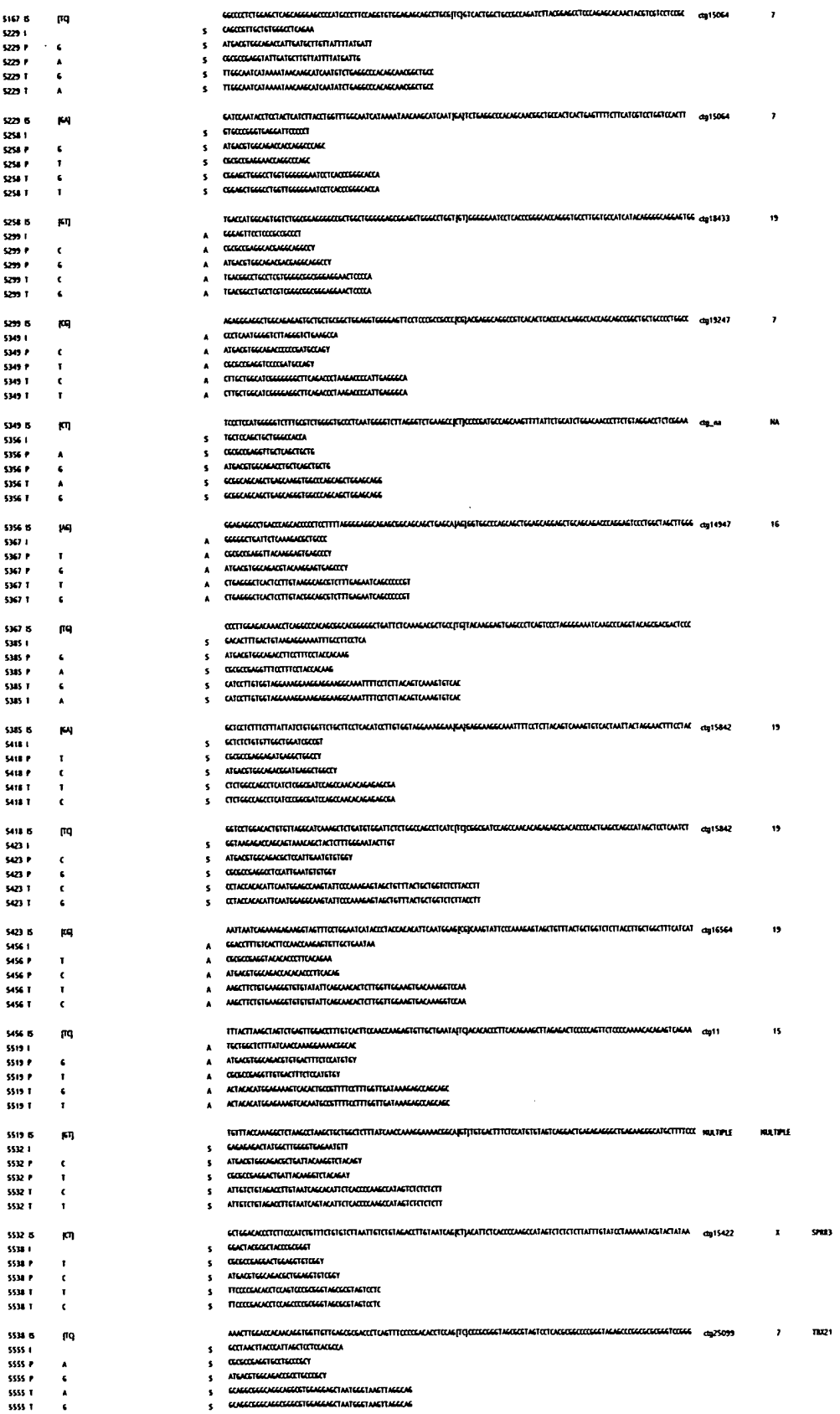


FIGURE 129F

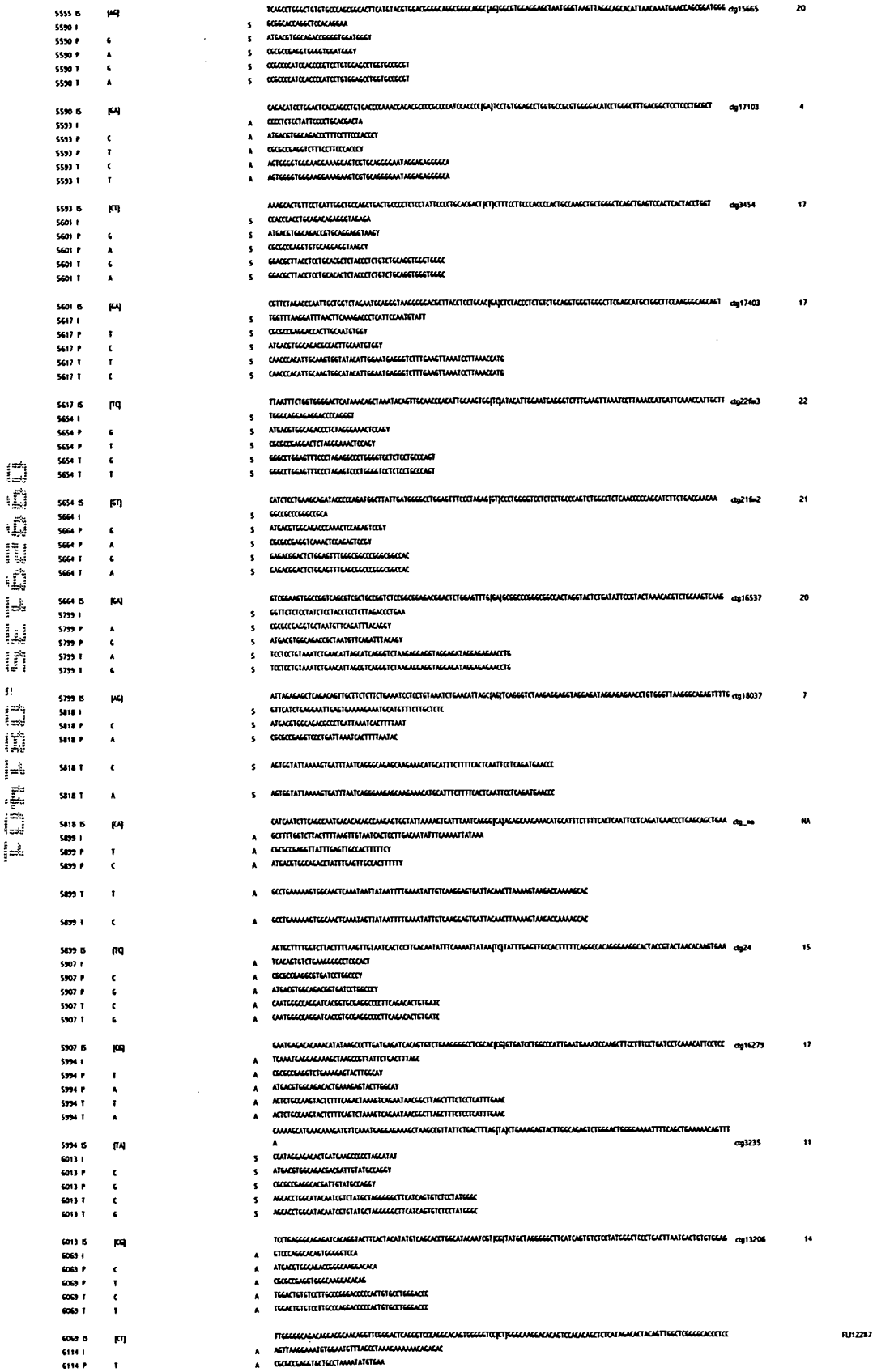


FIGURE 129F

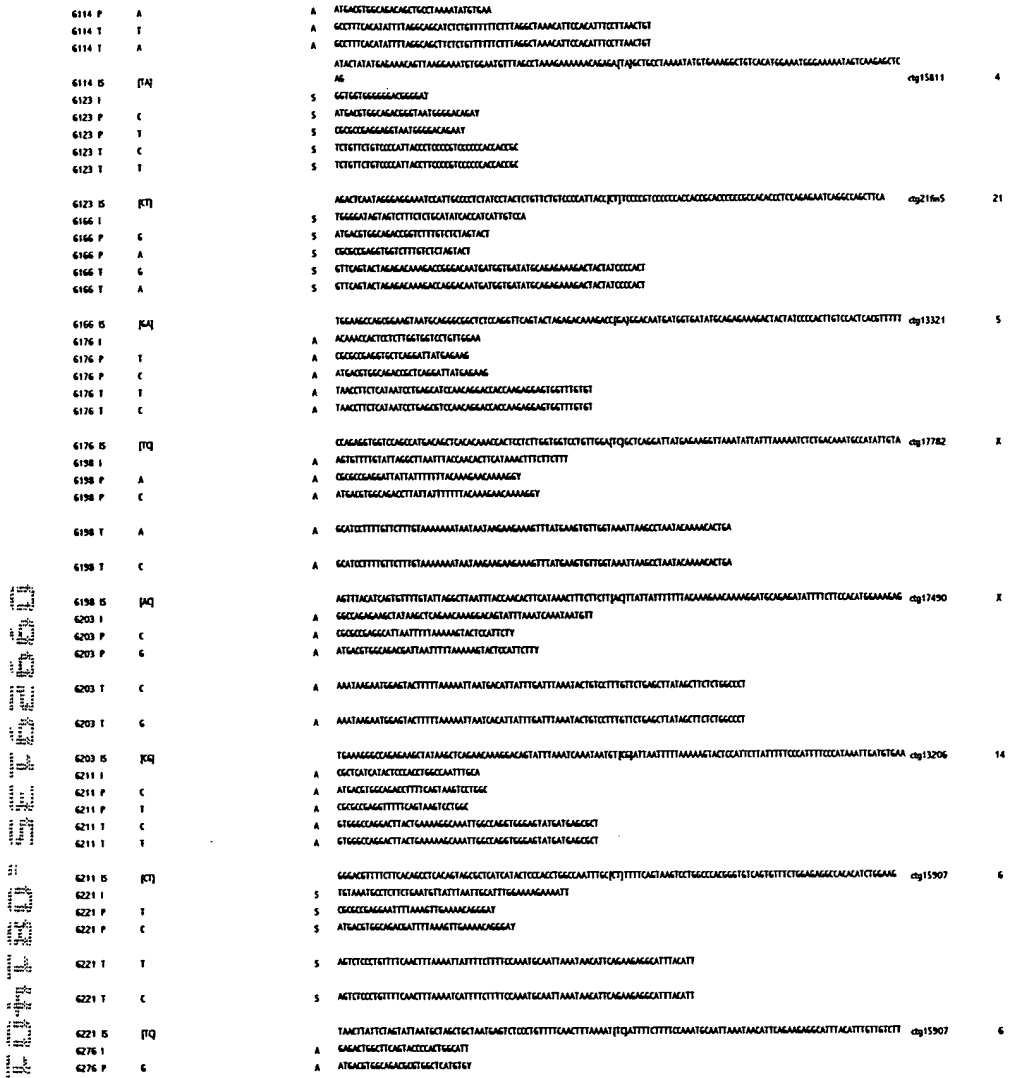
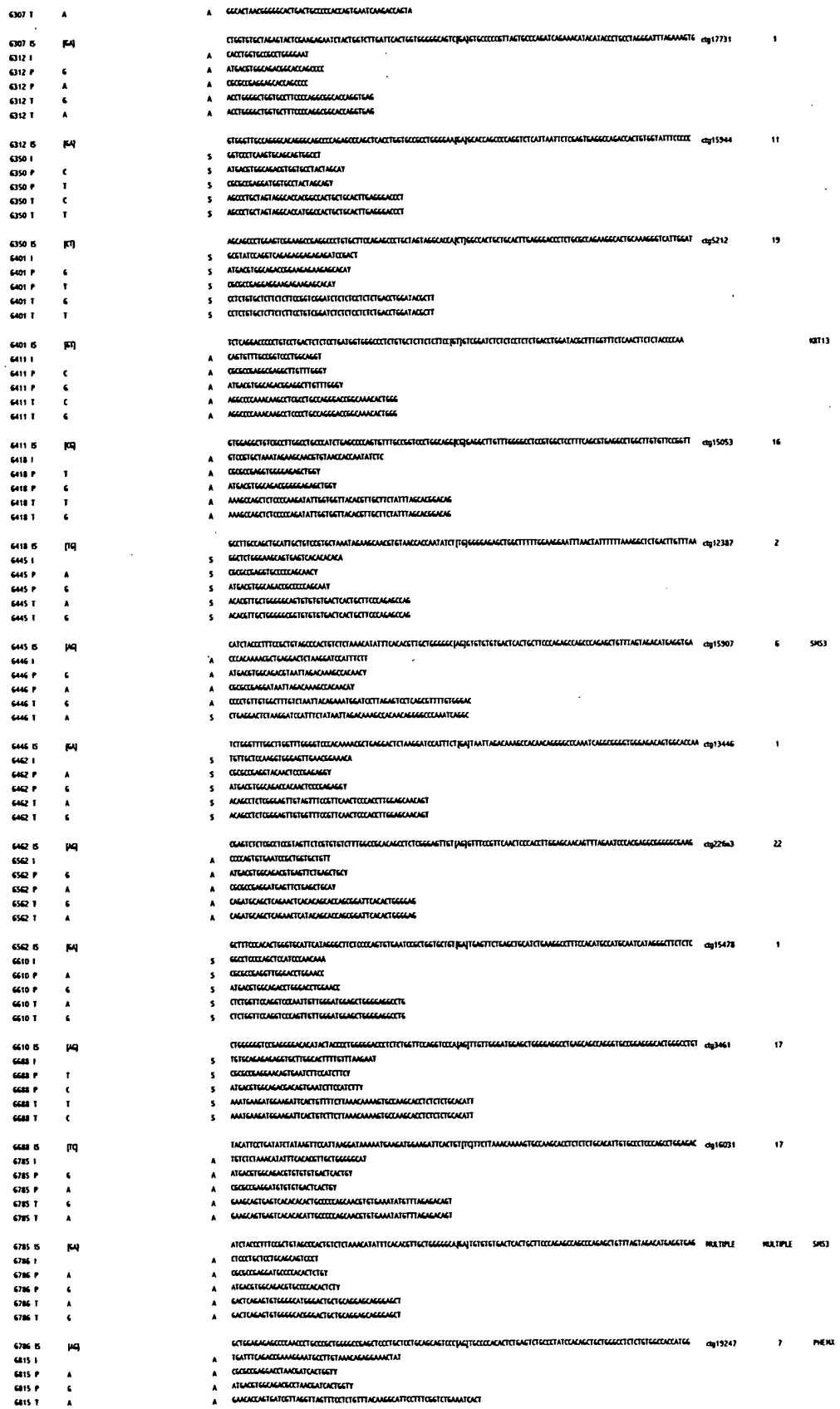
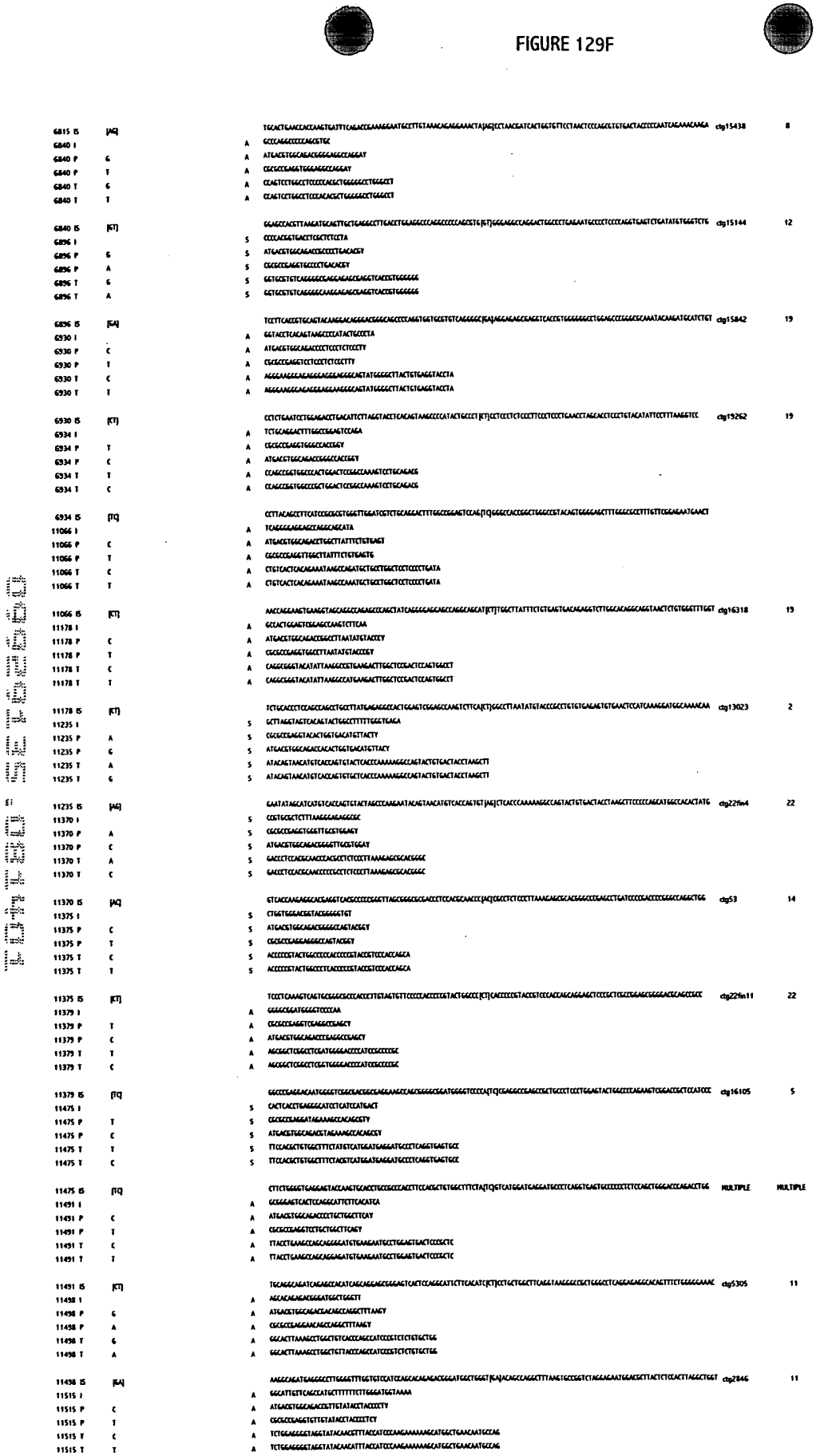


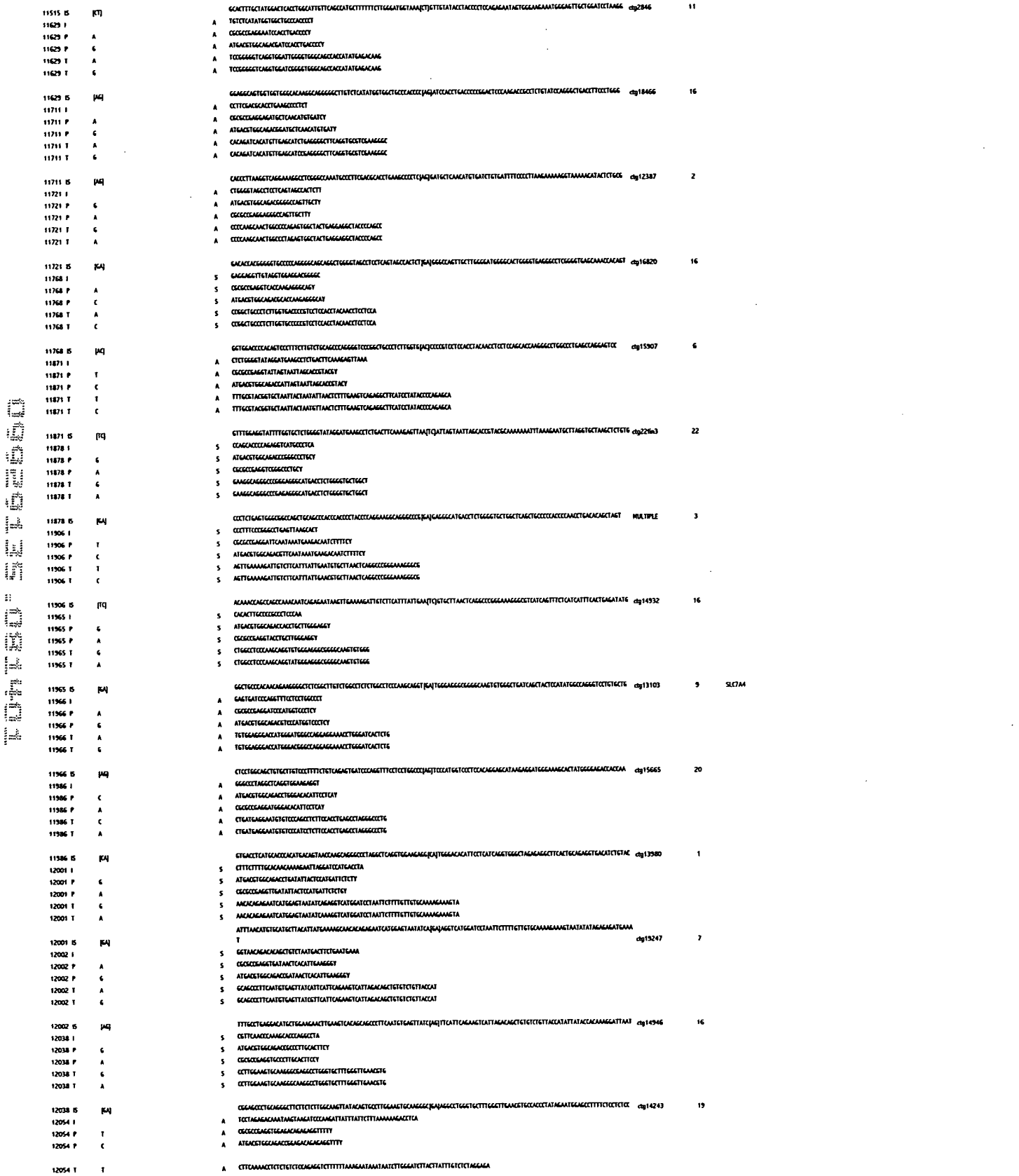
FIGURE 129F





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FIGURE 129F





Sequence Listing Page 1 of 1

FIGURE 129F

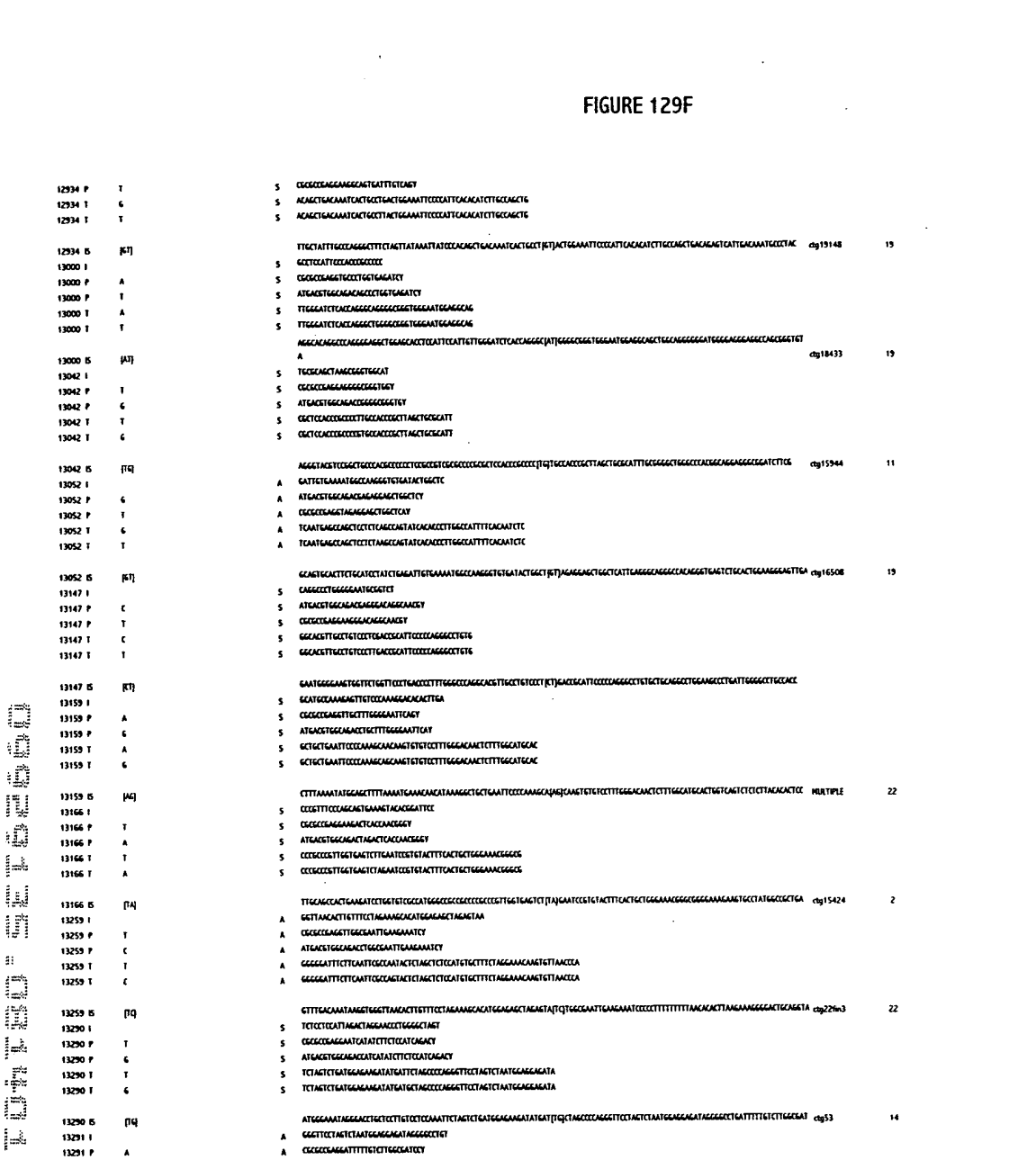


FIGURE 129F

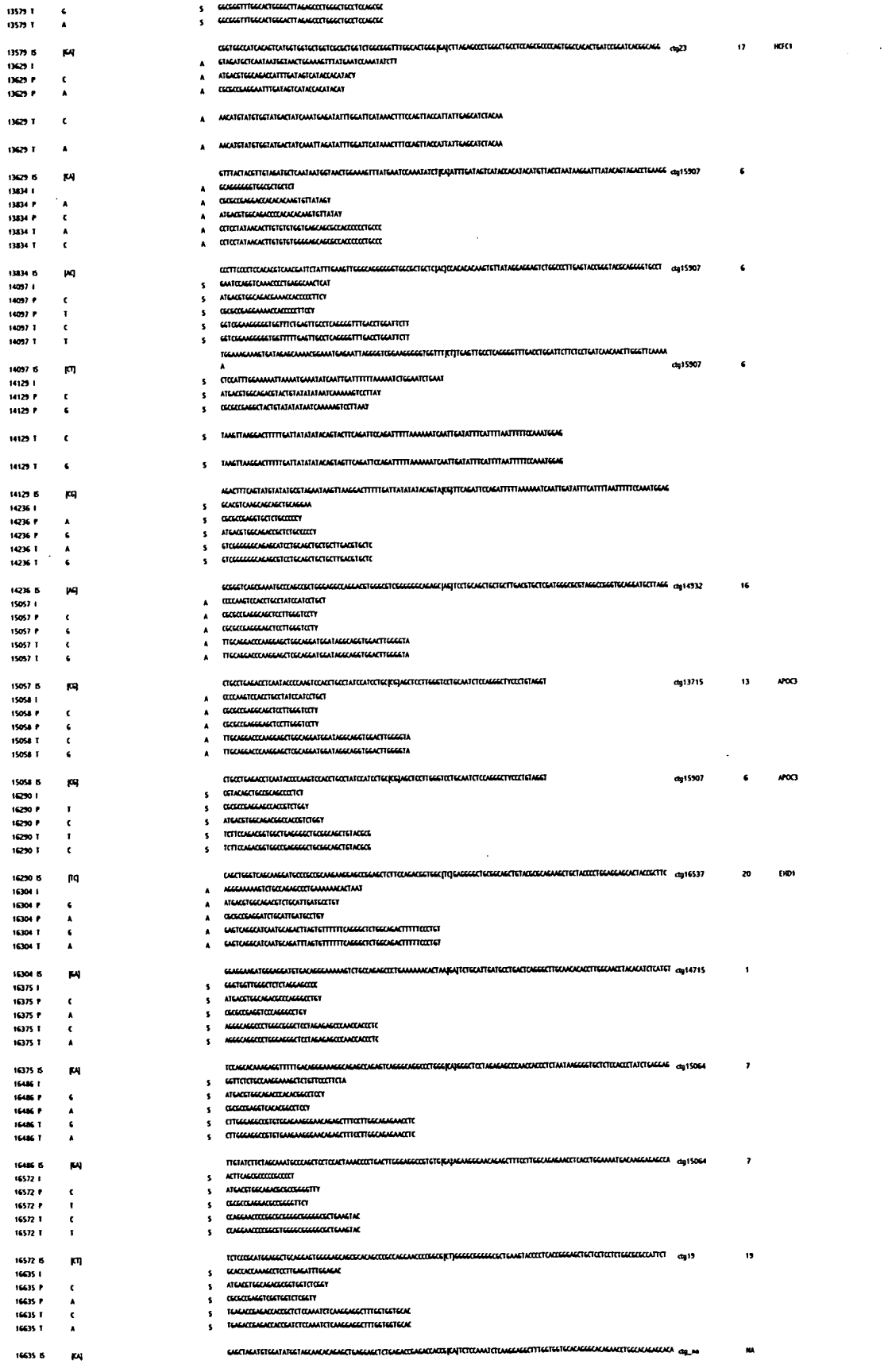


FIGURE 129F

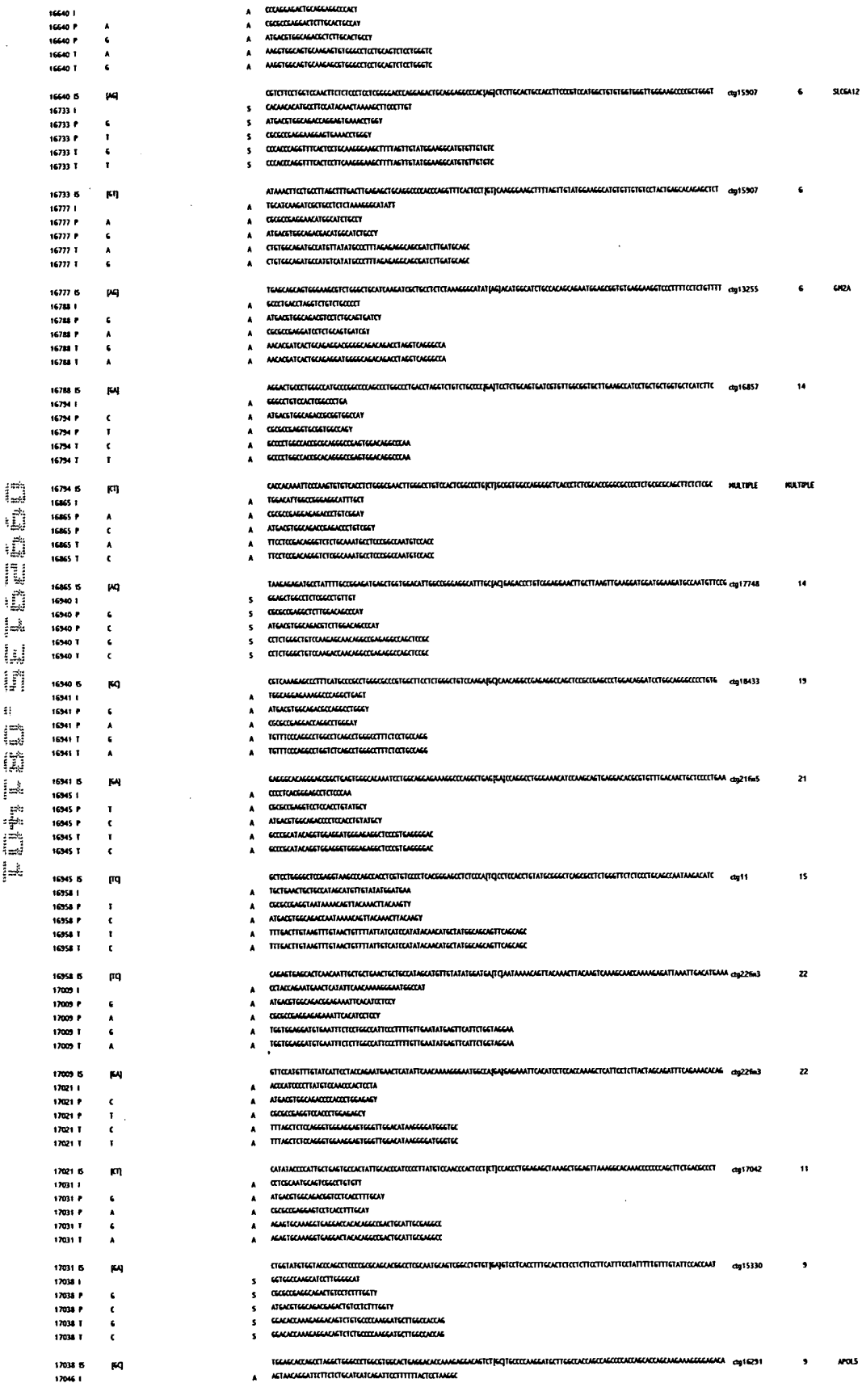


FIGURE 129F

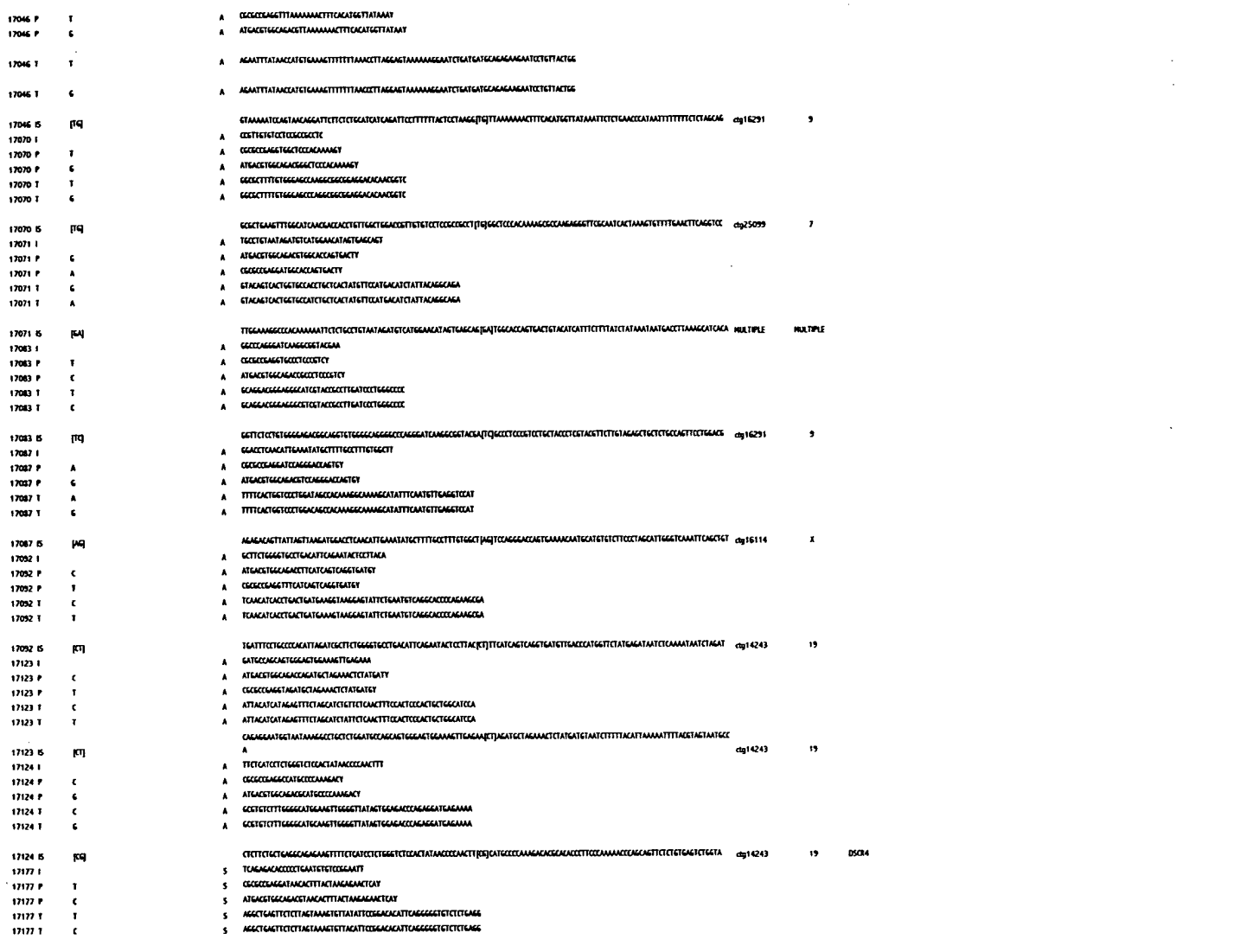
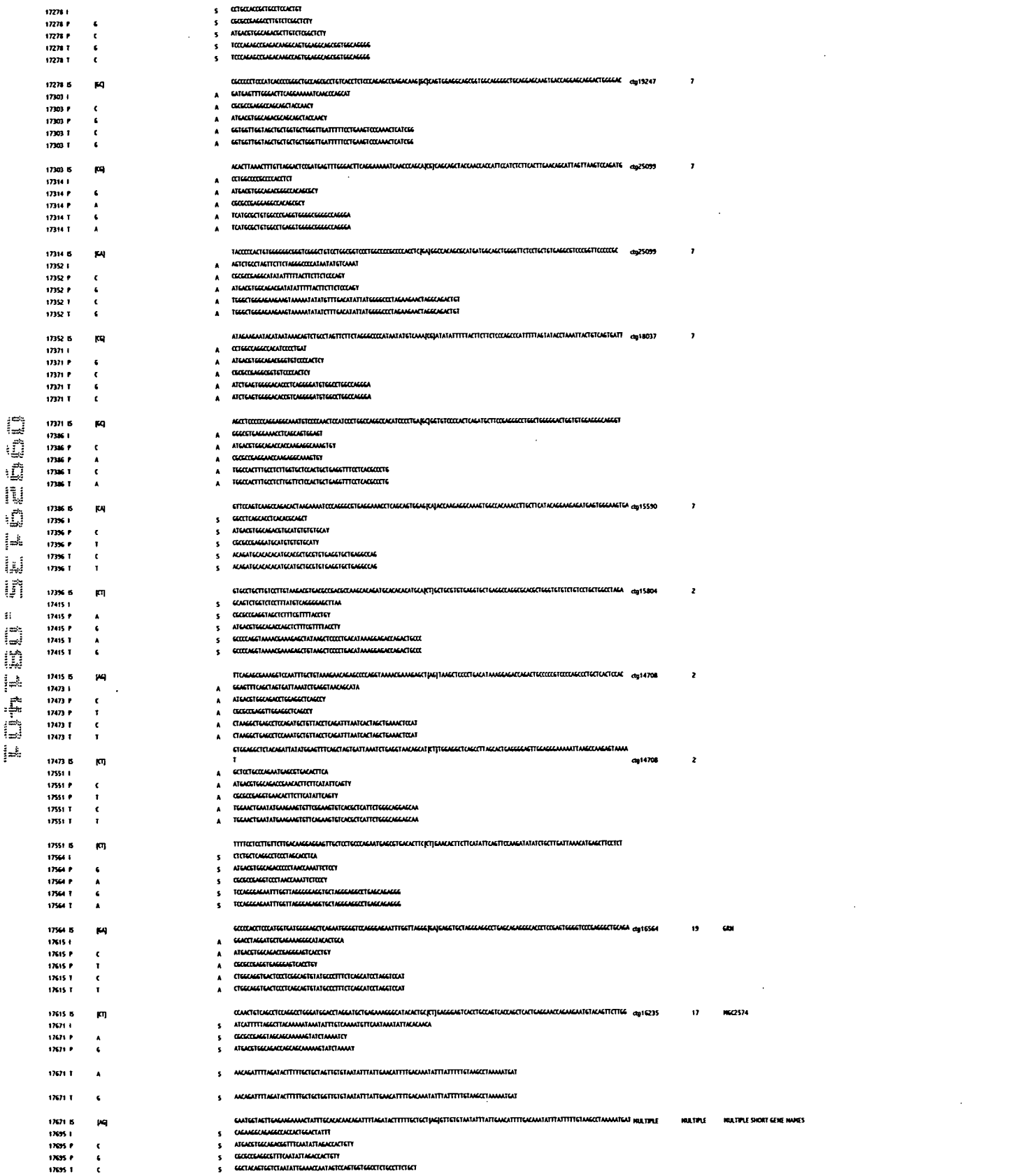


FIGURE 129F



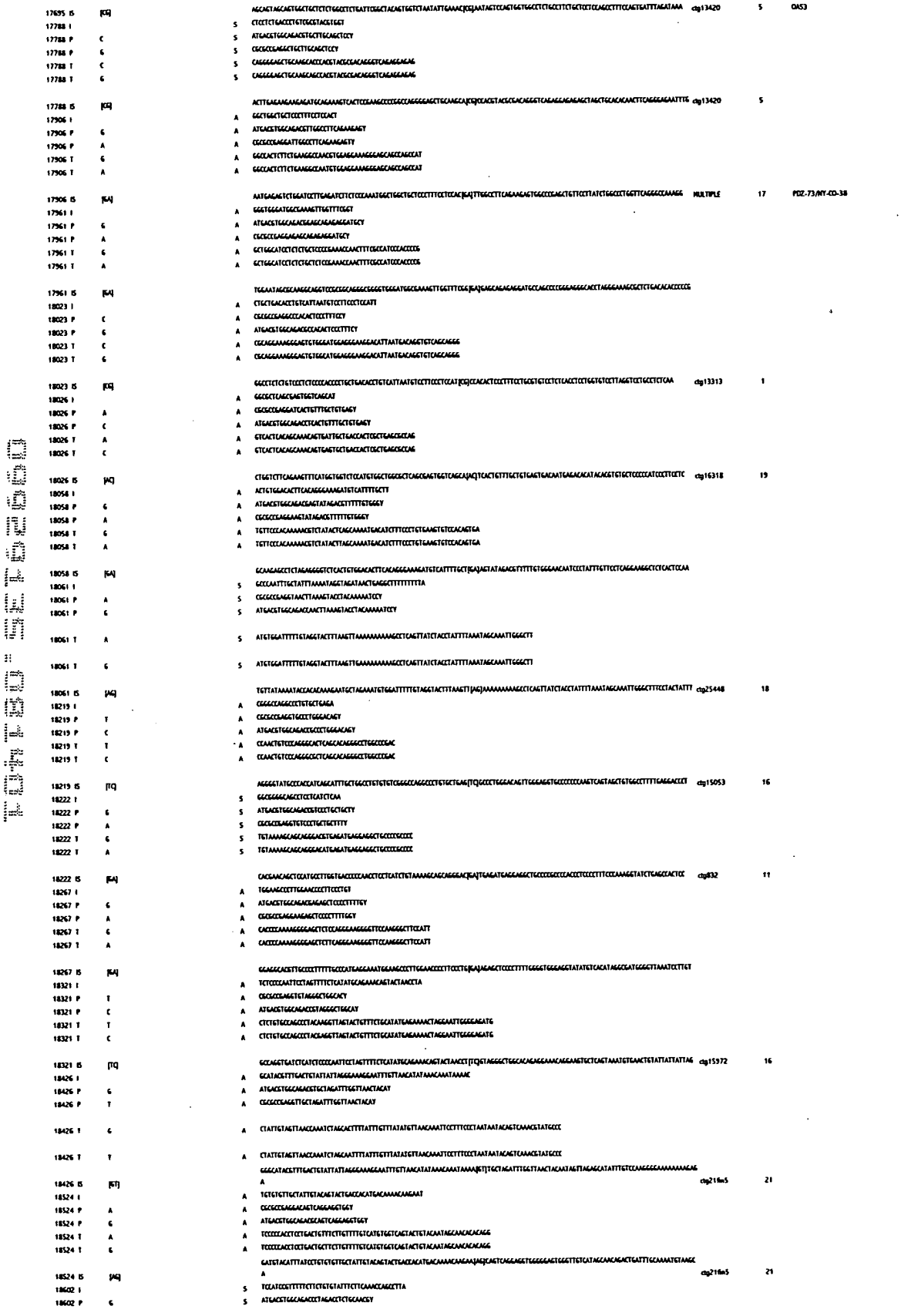


FIGURE 129F

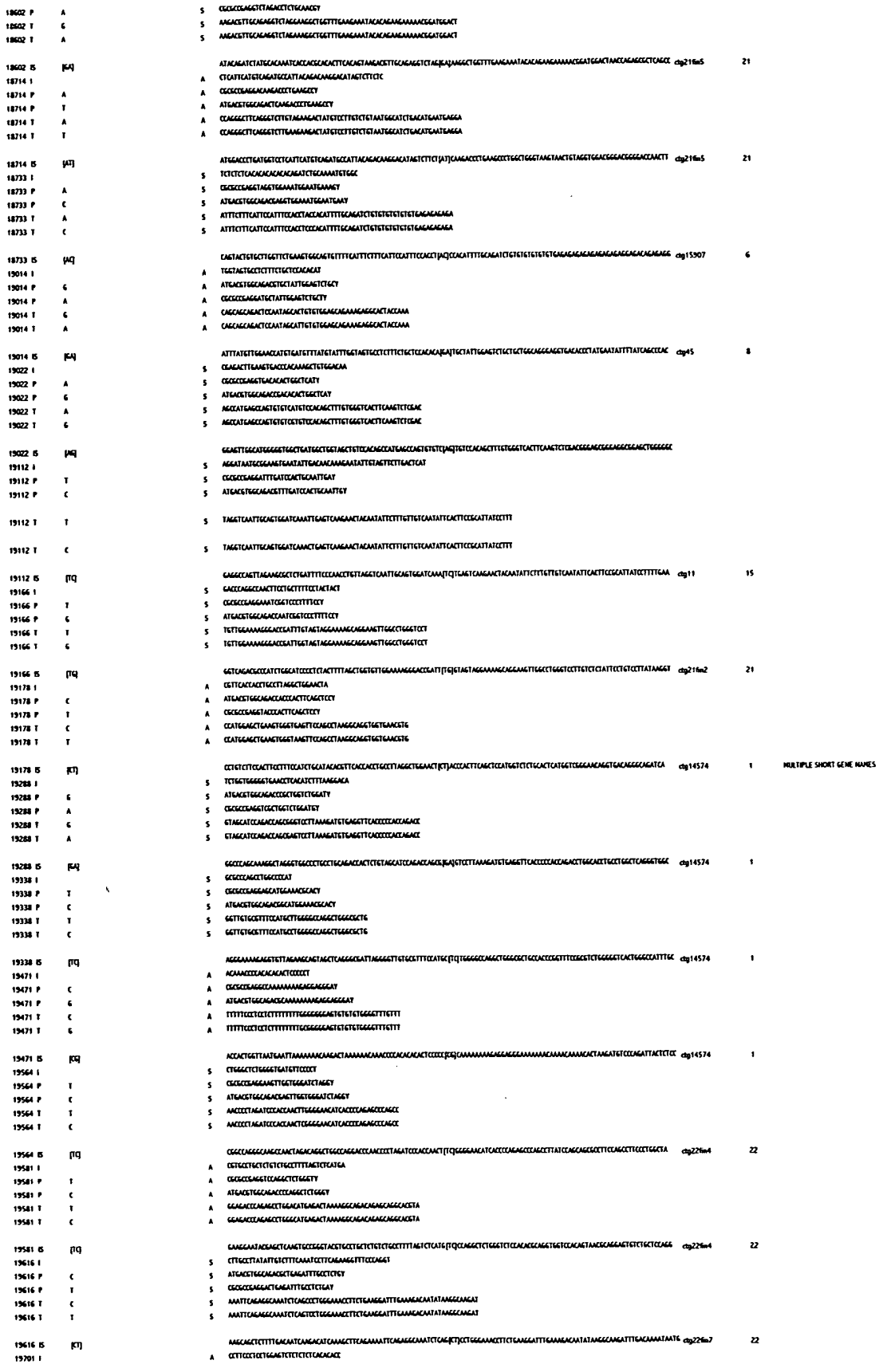


FIGURE 129F

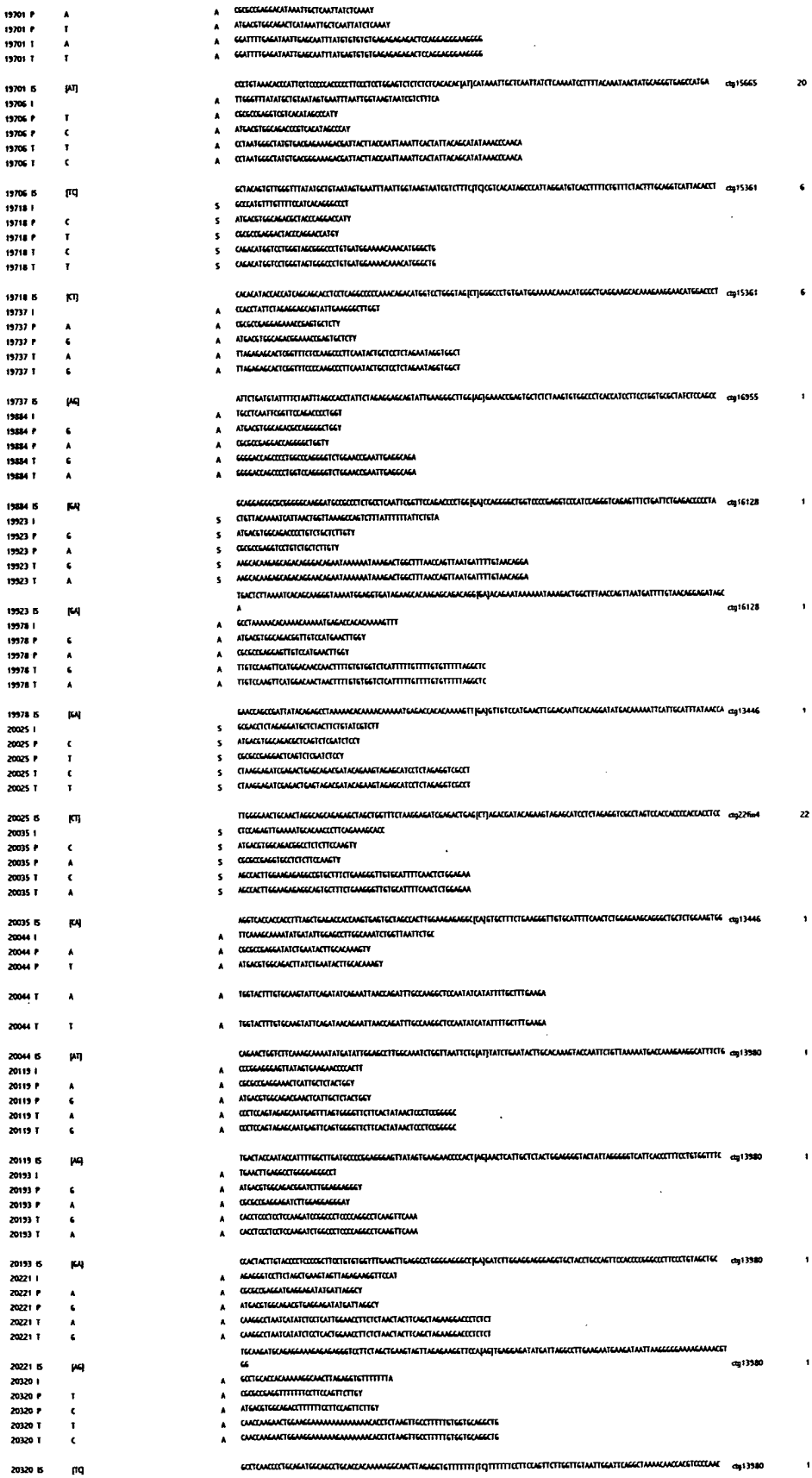


FIGURE 129F

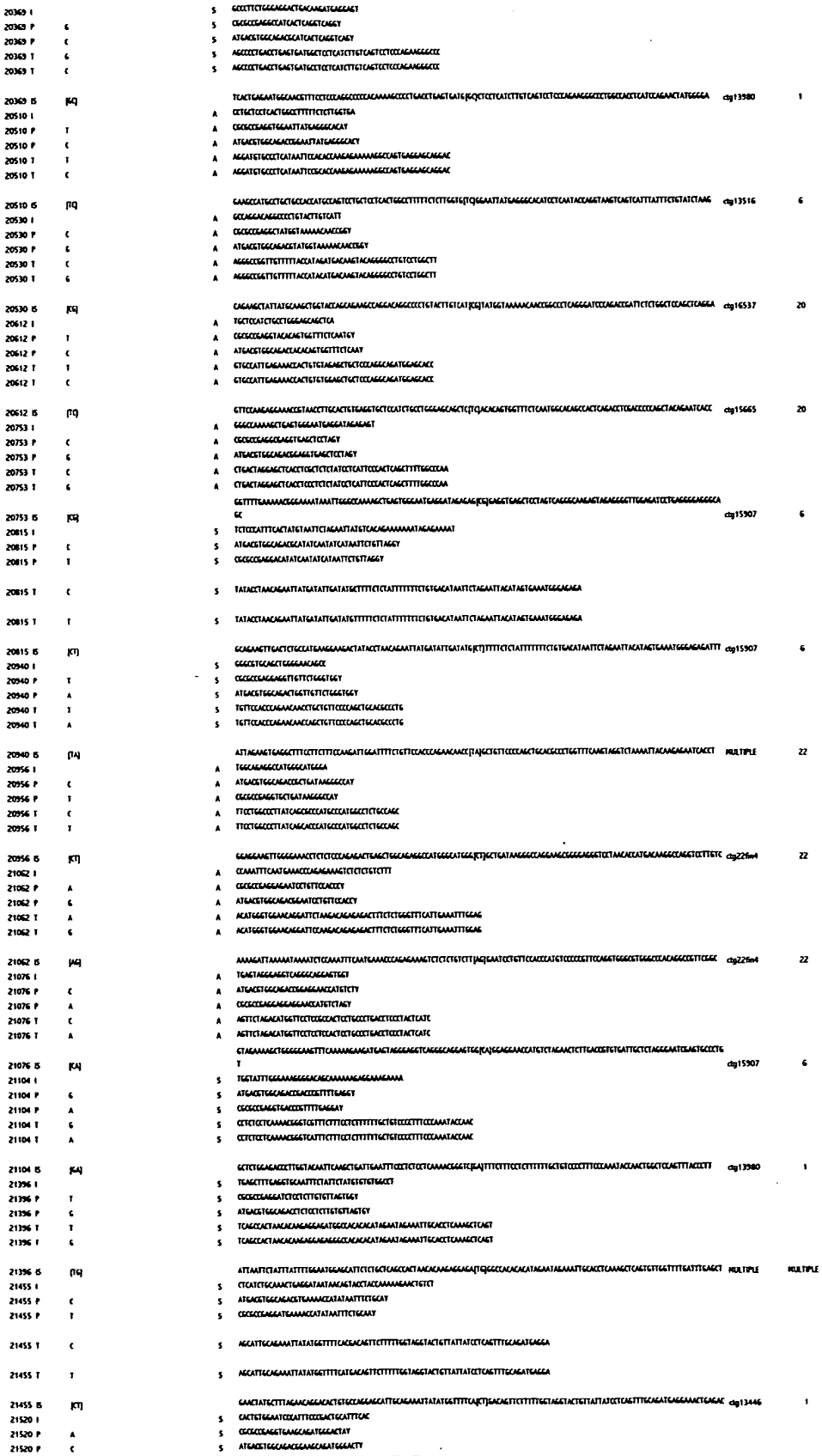


FIGURE 129F

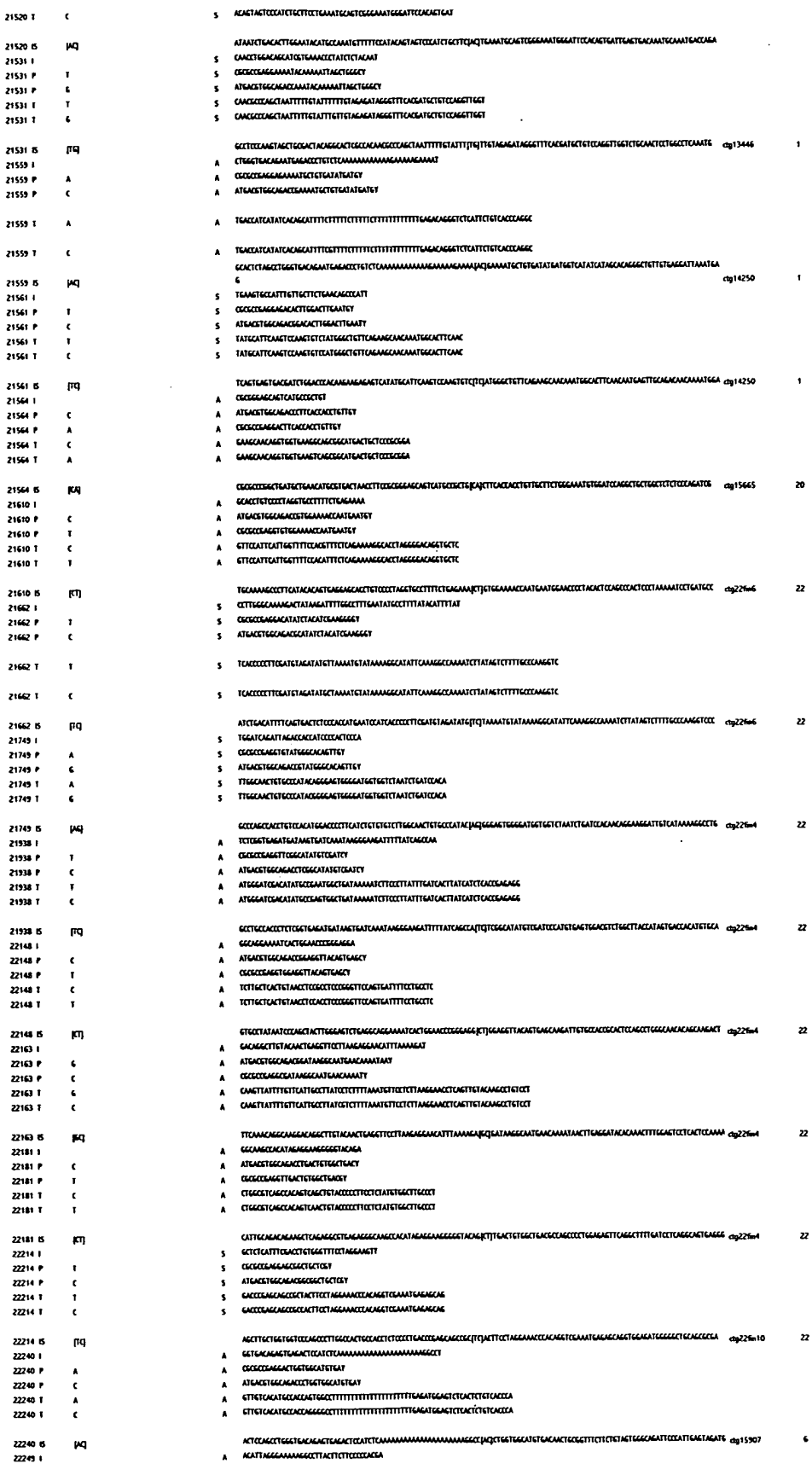


FIGURE 129F

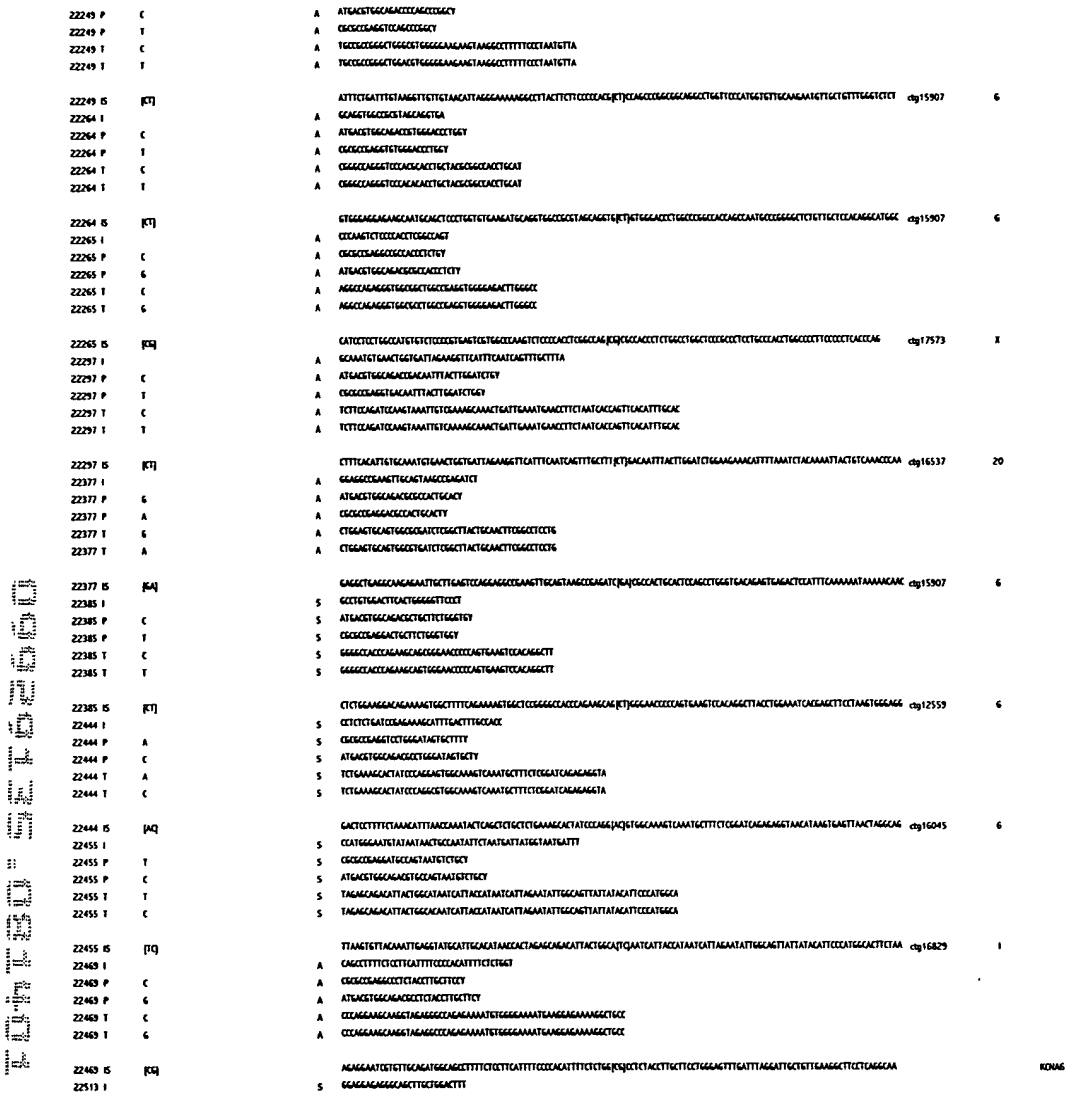


FIGURE 129F

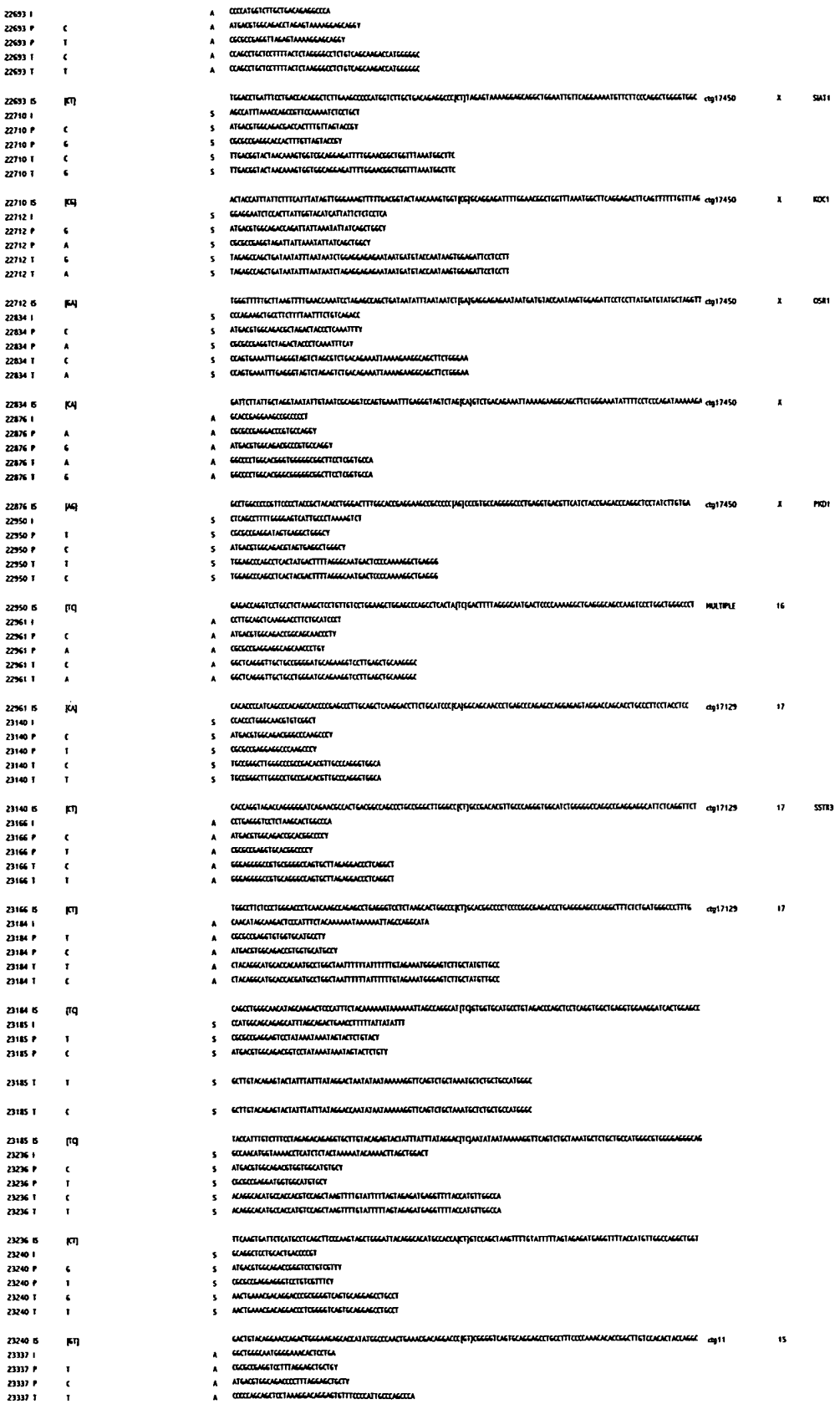


FIGURE 129F

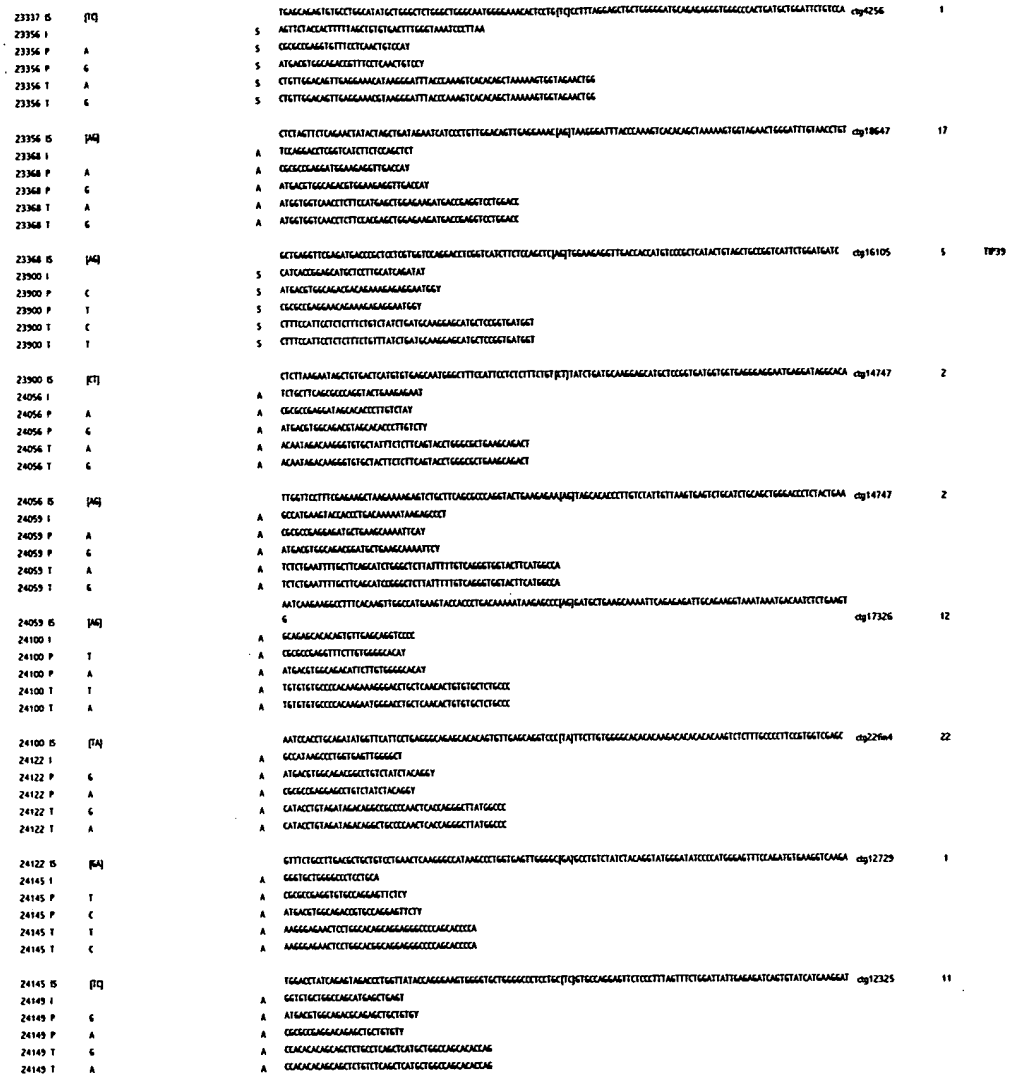


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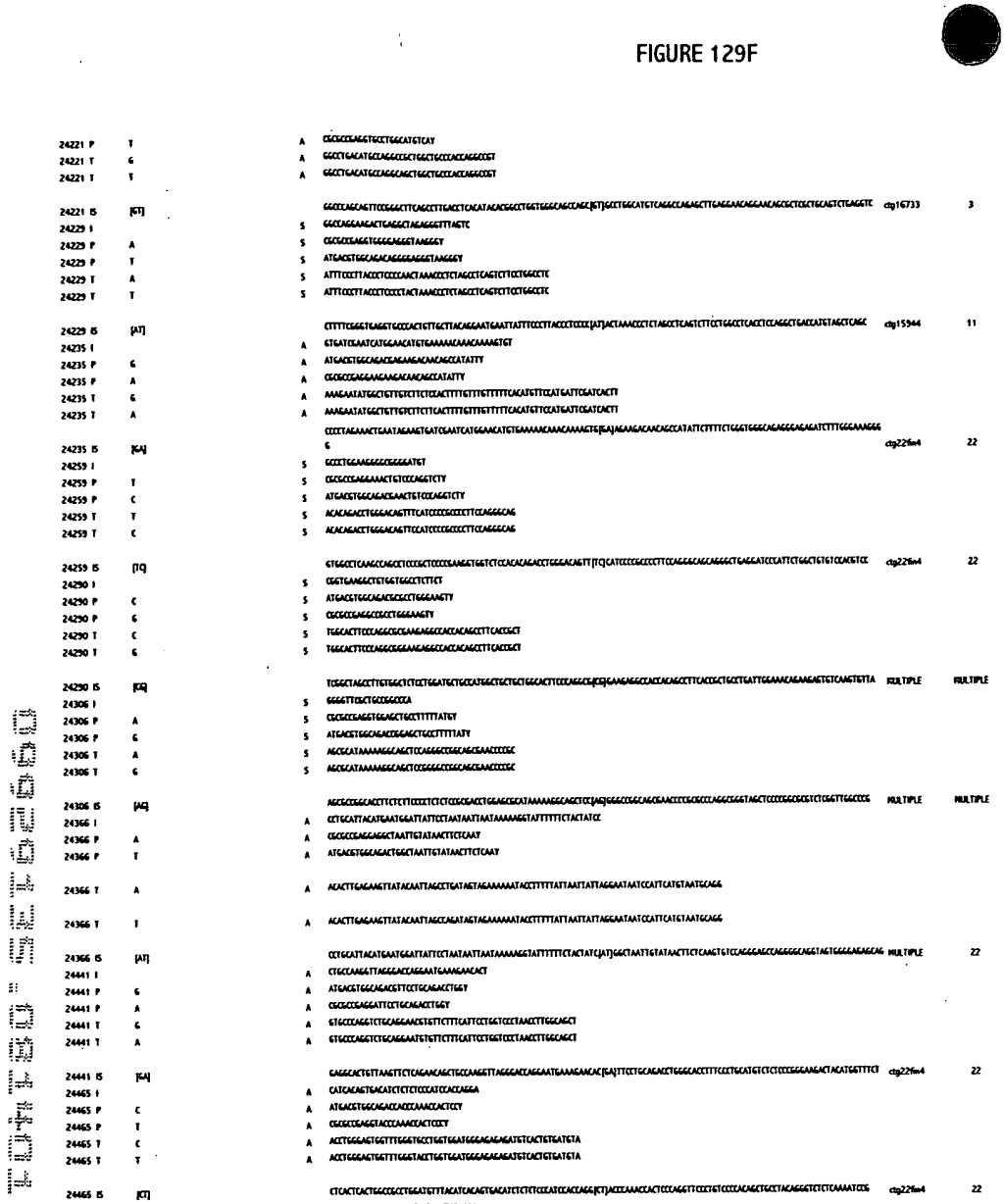
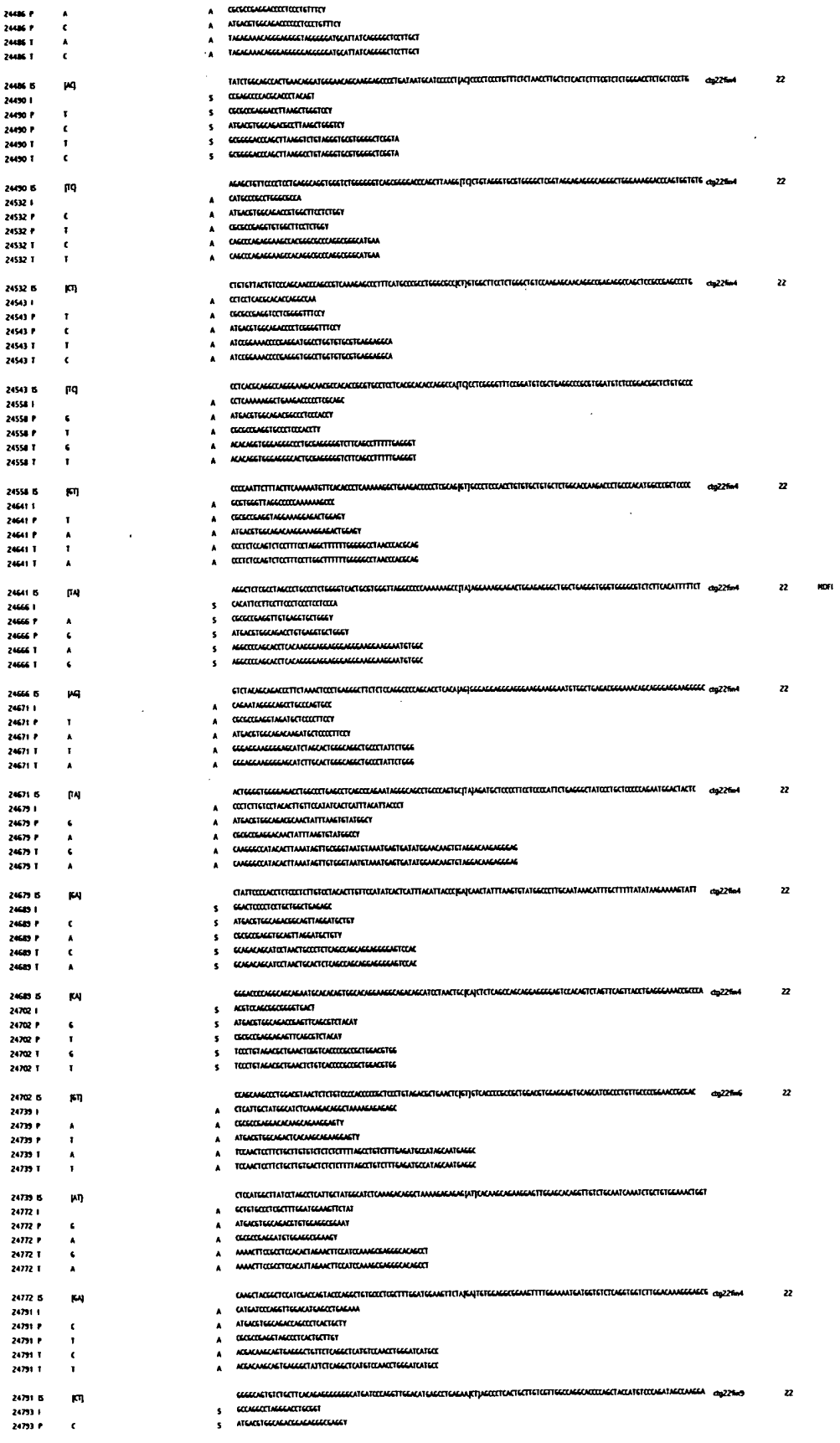


FIGURE 129F



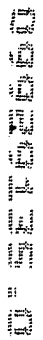


FIGURE 129F

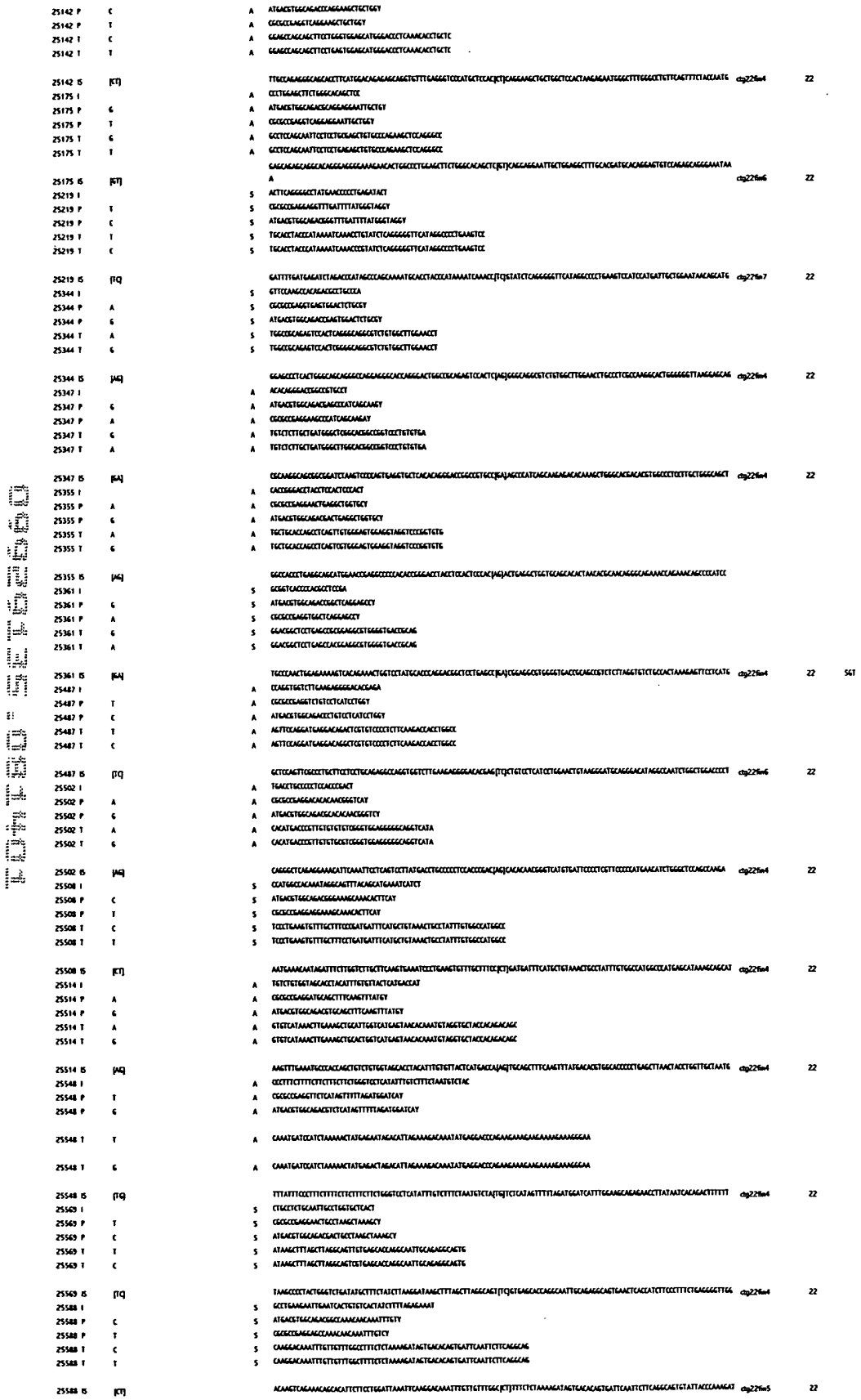


FIGURE 129F

25596 I		S	GCACGTCATGAGAACTCACGTGTTCCACCCT			
25596 P	T	S	CGCGCCGAGGATCTGCTGTGACTGCTY			
25596 P	G	S	ATGACGTGGCAGACCTCTGCTGTGACTGCTY			
25596 T	T	S	AATCAGCAGTCACAGCAGATGGGTGGAACACGTGAGTTCTCATGACGTGCGT			
25596 T	G	S	AATCAGCAGTCACAGCACAGGGGTGGAACACGTGAGTTCTCATGACGTGCGT			
25596 IS	[TG]		GTATGTATTATGGTAAACTTTGAGTAAAGGGCTTATTTACAAATCAGCAGTCACAGCAGA[TG]GGGTGGAACACGTGAGTTCTCATGACGTGCGTGGCATAAAGTGTAACTCAAGTCTCTGGT	ctg22fm5	22	
25607 I		S	CTCTCGGGGCTGTGCAGGGGGT			
25607 P	T	S	CGCGCCGAGGATCCCCTGGAAGCATGY			
25607 P	G	S	ATGACGTGGCAGACCTCCCCTGGAAGCATY			
25607 T	T	S	GGGCCATGCTTCCAGGGGATCCCCCTGCACAGCCCCGAGAGTG			
25607 T	G	S	GGGCCATGCTTCCAGGGGAGCCCCCTGCACAGCCCCGAGAGTG			
25607 IS	[TG]		TGGATCTGTGGGCCATAGGGAGCTACTGATGGTCCTCAGAAGGGCCATGCTTCCAGGGGA[TG]CCCCCTGCACAGCCCCGAGAGTGTGAAGCGTGTCAGCTTTGGGGCCTGTGGCACTGTGTG	ctg22fm4	22	
25612 I		A	CCGATGGCCGCGGGCTTAGCTTAACT			
25612 P	G	A	ATGACGTGGCAGACGGGATGAGCCATCTGGY			
25612 P	A	A	CGCGCCGAGGAGGATGAGCCATCTGGY			
25612 T	G	A	GTCCCCAGATGGCTCATCCCGTTAAGCTAAGCCCGCGGCCATCCGTC			
25612 T	A	A	GTCCCCAGATGGCTCATCCTGTTAAGCTAAGCCCGCGGCCATCCGTC			
25612 IS	[GA]		CTTGGGCCGGAACTGCTTTTCTTCCTAAAGCTGGACGGATGGCCGCGGGCTTAGCTTAAC[GA]GGATGAGCCATCTGGGGACTGCAGTGTCCACGATCAGATCAGGGAGCTTGAAGCTGAGGG	ctg22fm4	22	
25632 I		S	GACTCCTCAATGGGCTCTGTTGGCAGGAA			
25632 P	A	S	CGCGCCGAGGTTGTTTATGGCTCTTCAAGATY			
25632 P	G	S	ATGACGTGGCAGACCTGTTTATGGCTCTTCAAGAY			
25632 T	A	S	CTTTATCTTGAAGAGCCATAAACAATCCTGCCAACAGAGCCCATTGAGGAGTCCT			
25632 T	G	S	CTTTATCTTGAAGAGCCATAAACAGTCCTGCCAACAGAGCCCATTGAGGAGTCCT			
25632 IS	[AG]		ACCAGCTTCCAAAGCTTTTTACTCAAAGCTTTCATGCTTTATCTTGAAGAGCCATAAACA[AG]TCCTGCCAACAGAGCCCATTGAGGAGTCCTTCTGCTCACTGAGGTGATATATATATCCAA	ctg22fm4	22	
25636 I		S	GCGTTGTAAACCCAGGCCGGGATGTCA			
25636 P	G	S	ATGACGTGGCAGACCTGAGCGTTCTGGCAY			
25636 P	A	S	CGCGCCGAGGTTGAGCGTTCTGGCAY			
25636 T	G	S	CCTCTGCCAGAACGCTCAGGACATCCCGGCCTGGGTTTACAACGCTG			
25636 T	A	S	CCTCTGCCAGAACGCTCAAGACATCCCGGCCTGGGTTTACAACGCTG			
25636 IS	[GA]		GGCCAGGCTAGCGCGGACCGGAAGGGGCCGAGGCTGCACGGGCCTCTGCCAGAACGCTCA[GA]GACATCCCGGCCTGGGTTTACAACGCTGTTAGGAAAATTAACCAATGAATAAAGCAACGT	ctg22fm6	22	SEC14L2
25647 I		A	GAGTCCTAGTGCAGAAGAGGGGCTAAAAAATTCCACTTGA			
25647 P	T	A	CGCGCCGAGGTGTTAACATCAATAACTGTCATCY			
25647 P	C	A	ATGACGTGGCAGACCGTTAACATCAATAACTGTCATCY			
25647 T	T	A	TCAGGATGACAGTTATTGATGTTAACACAAGTGGAATTTTTTAGCCCCTCTTCTGCACTAGGACTCTG			
25647 T	C	A	TCAGGATGACAGTTATTGATGTTAACGCAAGTGGAATTTTTTAGCCCCTCTTCTGCACTAGGACTCTG			
25647 IS	[TC]		TCCTCTGGATCTCAACAAGCAGAGTCCTAGTGCAGAAGAGGGGCTAAAAAATTCCACTTG[TC]GTTAACATCAATAACTGTCATCCTGAAGGACTAAGTTGATTTCAAAAGAACATTTTAATG	ctg22fm4	22	
25687 I		S	CCTCAAGAAGCAGAAGGAACAAGCTTAATTTATTCAGGAGGGAAT			
25687 P	T	S	CGCGCCGAGGAAGTTAGGCTTTTACAGGCY			
25687 P	C	S	ATGACGTGGCAGACGAGTTAGGCTTTTACAGGCY			
25687 T	T	S	GATAGCCTGTAAAAGCCTAACTTTTCCCTCCTGAATAAATTAAGCTTGTTCCTTCTGCTTCTTGAGGGC			
25687 T	C	S	GATAGCCTGTAAAAGCCTAACTCTTCCCTCCTGAATAAATTAAGCTTGTTCCTTCTGCTTCTTGAGGGC			
25687 IS	[TC]		AGCCCTAGAAAAAGGGAGGTTCCCAATCAGTATTTGTTGATAGCCTGTAAAAGCCTAACT[TC]TTCCCTCCTGAATAAATTAAGCTTGTTCCTTCTGCTTCTTGAGGGCAGCCTCTCTGTATC			
25725 I		A	GGGGAGGGAGCGTCGGCTGCC			
25725 P	G	A	ATGACGTGGCAGACGGAGGGAGCTGGGY			
25725 P	T	A	CGCGCCGAGGTGAGGGAGCTGGGAY			
25725 T	G	A	TGCATCCCAGCTCCCTCCGCAGCCGACGCTCCCTCCCCCT			
25725 T	T	A	TGCATCCCAGCTCCCTCAGCAGCCGACGCTCCCTCCCCCT			
25725 IS	[GT]		TGGGAACCCGGATGCCCCAGCTCAGCCTTCCTGCCAGCAGGGGGAGGGAGCGTCGGCTGC[GT]GAGGGAGCTGGGATGCATGCGTGTGGGCAGCCAGAGGCCAGGCATGTGTGGACAAGATGG	ctg16829	1	
25746 I		A	TTGCCTCCATTTCCCACCTCTAAAATGCAAAGGATGATAT			
25746 P	A	A	CGCGCCGAGGATAACAATAATAAATGTTGCAACGY			
25746 P	G	A	ATGACGTGGCAGACGTAACAATAATAAATGTTGCAACGY			
25746 T	A	A	CACCCGTTGCAACATTTATTATTGTTATTATCATCCTTTGCATTTTAGAGGTGGGAAATGGAGGCAAGA			
25746 T	G	A	CACCCGTTGCAACATTTATTATTGTTACTATCATCCTTTGCATTTTAGAGGTGGGAAATGGAGGCAAGA			
25746 IS	[AG]		ACAGACATGTACTGAAATCTCTTGCCTCCATTTCCCACCTCTAAAATGCAAAGGATGATA[AG]TAACAATAATAAATGTTGCAACGGGTGACCGATTATAAAGTTCTTGTCACCTGATAGACC			
25769 I		S	GATGCAACTGGGAGCCAGGCCTGGA			
25769 P	A	S	CGCGCCGAGGTGCCCCGGGGAATTTY			
25769 P	G	S	ATGACGTGGCAGACCGCCCGGGGAATTY			
25769 T	A	S	TGGCAAATTCCCCGGGCACCAGGCCTGGCTCCCAGTTGCATCCT			
25769 T	G	S	TGGCAAATTCCCCGGGCGCCAGGCCTGGCTCCCAGTTGCATCCT			
25769 IS	[AG]		GGCTTGCGCCCACTGGCCTCACCCATCACCACAGTGGCAGGCGTGGCAAATTCCCCGGGC[AG]CCAGGCCTGGCTCCCAGTTGCATCCTTTGACAGGCCGTGCCCACAGGTGTGCTGGACACA	ctg16263	1	
25794 I		A	AAGCTTACCAGGGATTGTTGGGGAATGGGGA			
25794 P	T	A	CGCGCCGAGGTTGGGAGAGAGGACTAACY			
25794 P	C	A	ATGACGTGGCAGACCTGGGAGAGAGGACTAACY			
25794 T	T	A	TGCAGTTAGTCCTCTCTCCCAACCCCATTCCCCAACAATCCCTGGTAAGCTTTC			
25794 T	C	A	TGCAGTTAGTCCTCTCTCCCAGCCCCATTCCCCAACAATCCCTGGTAAGCTTTC			
25794 IS	[TC]		TTCCTAGAAACAGCAAAATGTGCAGACAGAAAGCTTACCAGGGATTGTTGGGGAATGGGG[TC]TGGGAGAGAGGACTAACTGCAGATGAACCCAAGGGGCACTTTTTAGGTGAGAGCAGTGT C	ctg3454	17	
25813 I		S	CTTACACTGATTTGGCACAGCAAGAGATGGTTT			
25813 P	G	S	ATGACGTGGCAGACCTTTCTAAATGTCCCCTCTACY			
25813 P	T	S	CGCGCCGAGGATTTCTAAATGTCCCCTCTACY			
25813 T	G	S	GCATGTAGAGGGGACATTTAGAAAGAACCATCTCTTGCTGTGCCAAATCAGTGTAAGAT			
25813 T	T	S	GCATGTAGAGGGGACATTTAGAAATAACCATCTCTTGCTGTGCCAAATCAGTGTAAGAT			
25813 IS	[GT]		CCCAGAGGCAGGGTGATTTCCACTGAACAGGTGAGGGCATGTAGAGGGGACATTTAGAAA[GT]AACCATCTCTTGCTGTGCCAAATCAGTGTAAGATTTTTAGTTTTAAAAAGATGTTTTATT	ctg16892	8	
25828 I		S	CCCCAAGCCAGCCCTGTATGCCCT			
25828 P	C	S	ATGACGTGGCAGACGTGGTAAGATGGGTGGGY			
25828 P	T	S	CGCGCCGAGGATGGTAAGATGGGTGGGY			
25828 T	C	S	CTTGCCCACCCATCTTACCACGGGCATACAGGGCTGGCTTGGGGCT			
25828 T	T	S	CTTGCCCACCCATCTTACCATGGGCATACAGGGCTGGCTTGGGGCT			
25828 IS	[CT]		CTGTGAACAGAGCTGGCAGAGCTGAGCTCCTCCAGGAAGCCTTGCCCACCCATCTTACCA[CT]GGGCATACAGGGCTGGCTTGGGGCTAGGAGGGCCCAGGAAGACAGAACACTCACCCACTG	ctg16892	8	
25841 I		A	CTCTGCCTTCTGGGGGTGGATTTTAGCAGAT			
25841 P	A	A	CGCGCCGAGGAGAAACAACTCCTCCCTTY			
25841 P	G	A	ATGACGTGGCAGACGGAAACAACTCCTCCCTY			
25841 T	A	A	CAGCAAGGGAGGAGTTGTTTCTTCTGCTAAAATCCACCCCCAGAAGGCAGAGGA			
25841 T	G	A	CAGCAAGGGAGGAGTTGTTTCCTCTGCTAAAATCCACCCCCAGAAGGCAGAGGA			
25841 IS	[AG]		GGTCACAAGCACATTAAGTCCGGTCATTTCCTCTGCCTTCTGGGGGTGGATTTTAGCAGA[AG]GAAACAACTCCTCCCTTGCTGGCCTCATGACCTCTGGTGAACACTAGCTTTCAGCAAACA			
25860 I		S	TTGCTGTTTTCCTGCTTGGTTGGTGGCCT			

FIGURE 129F

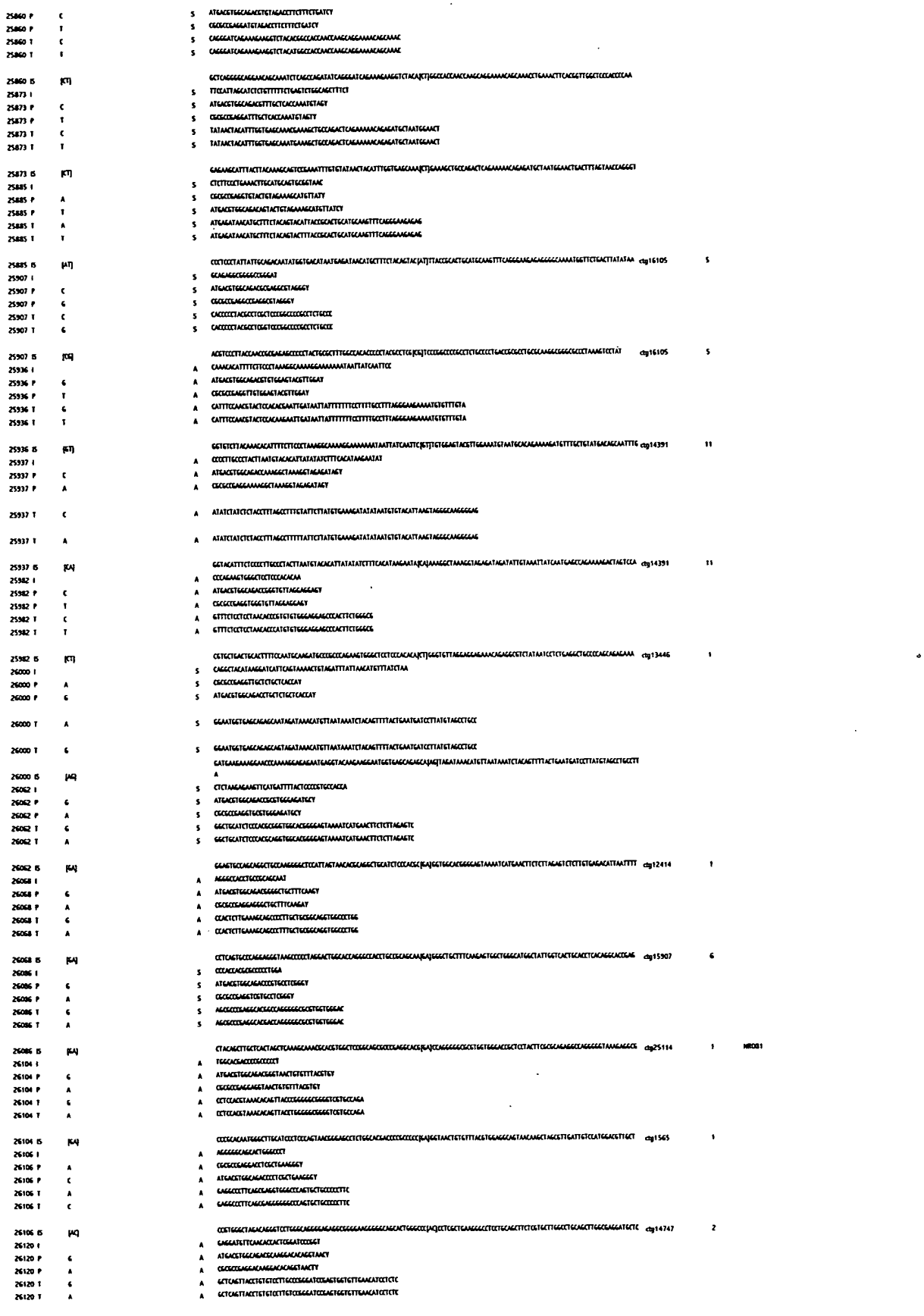


FIGURE 129F

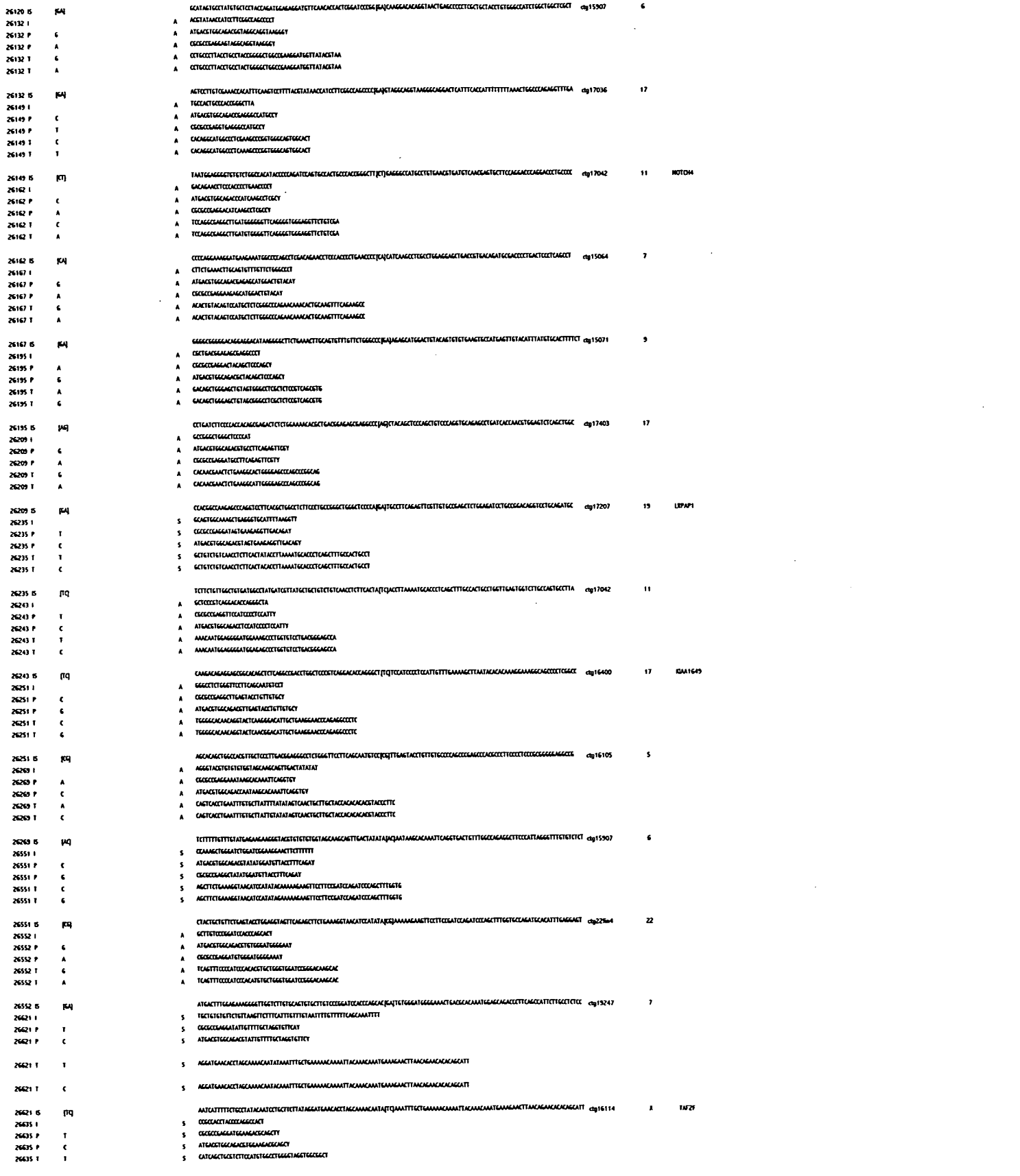


FIGURE 129F

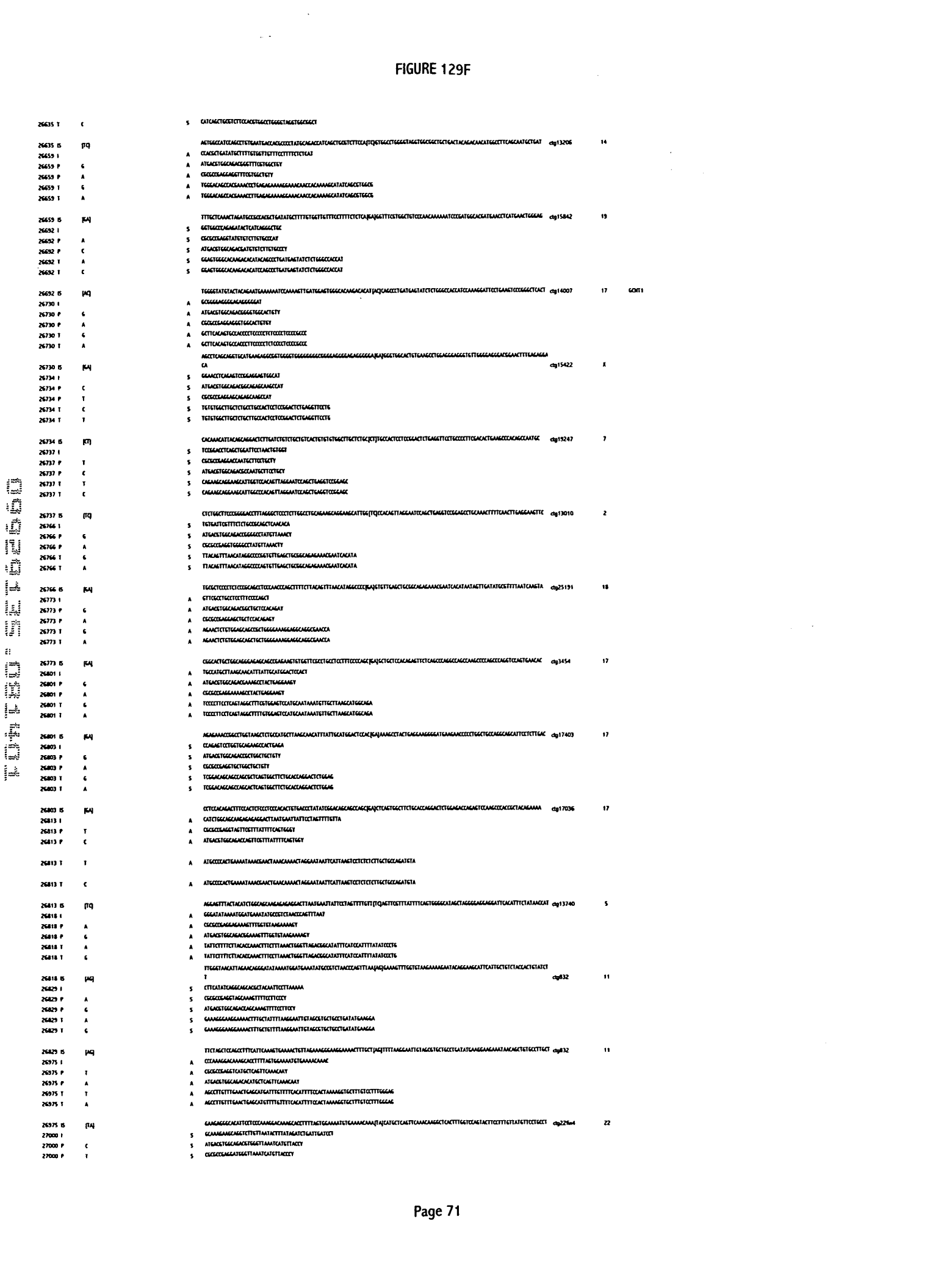


FIGURE 129F

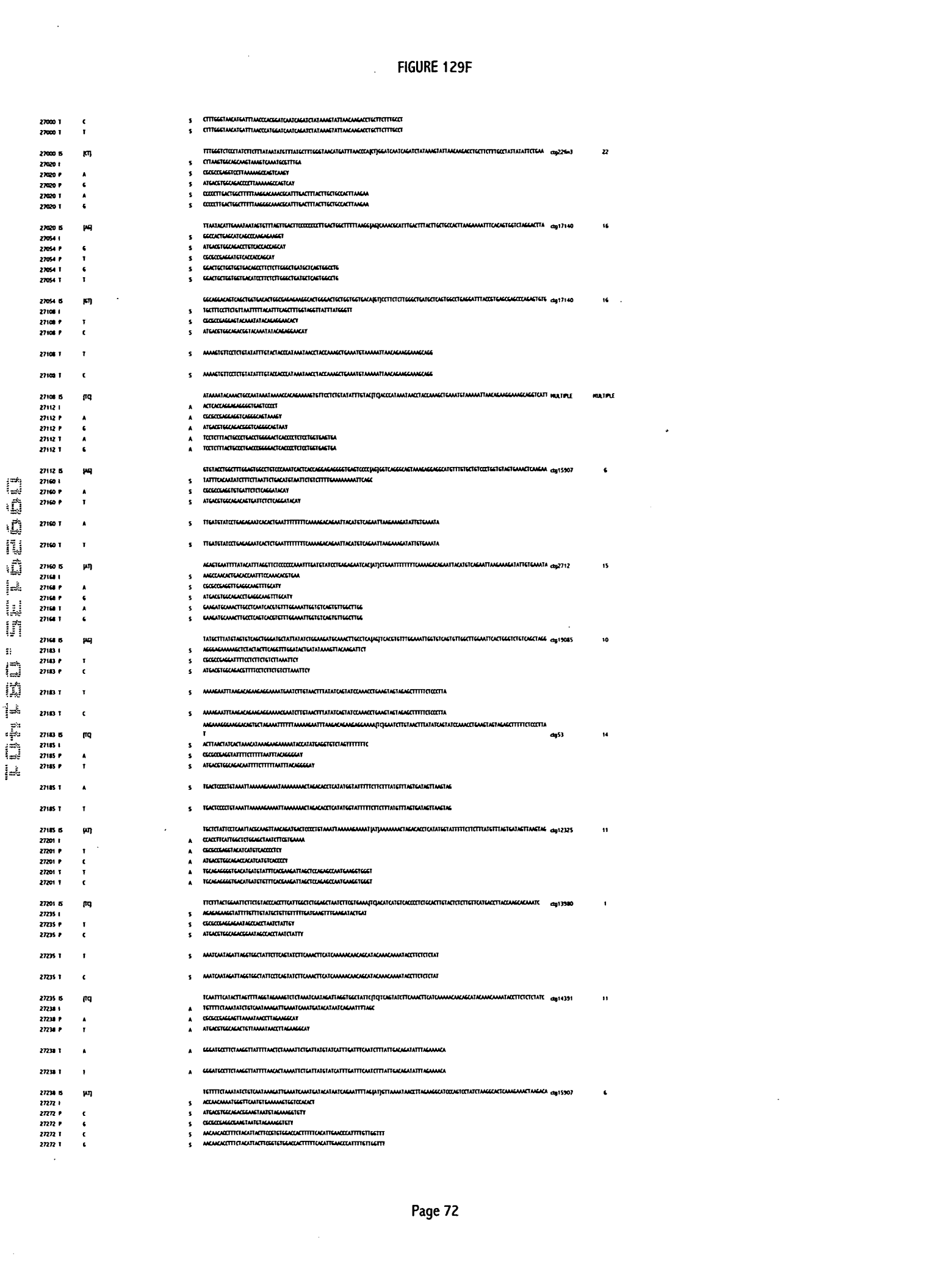


FIGURE 129F

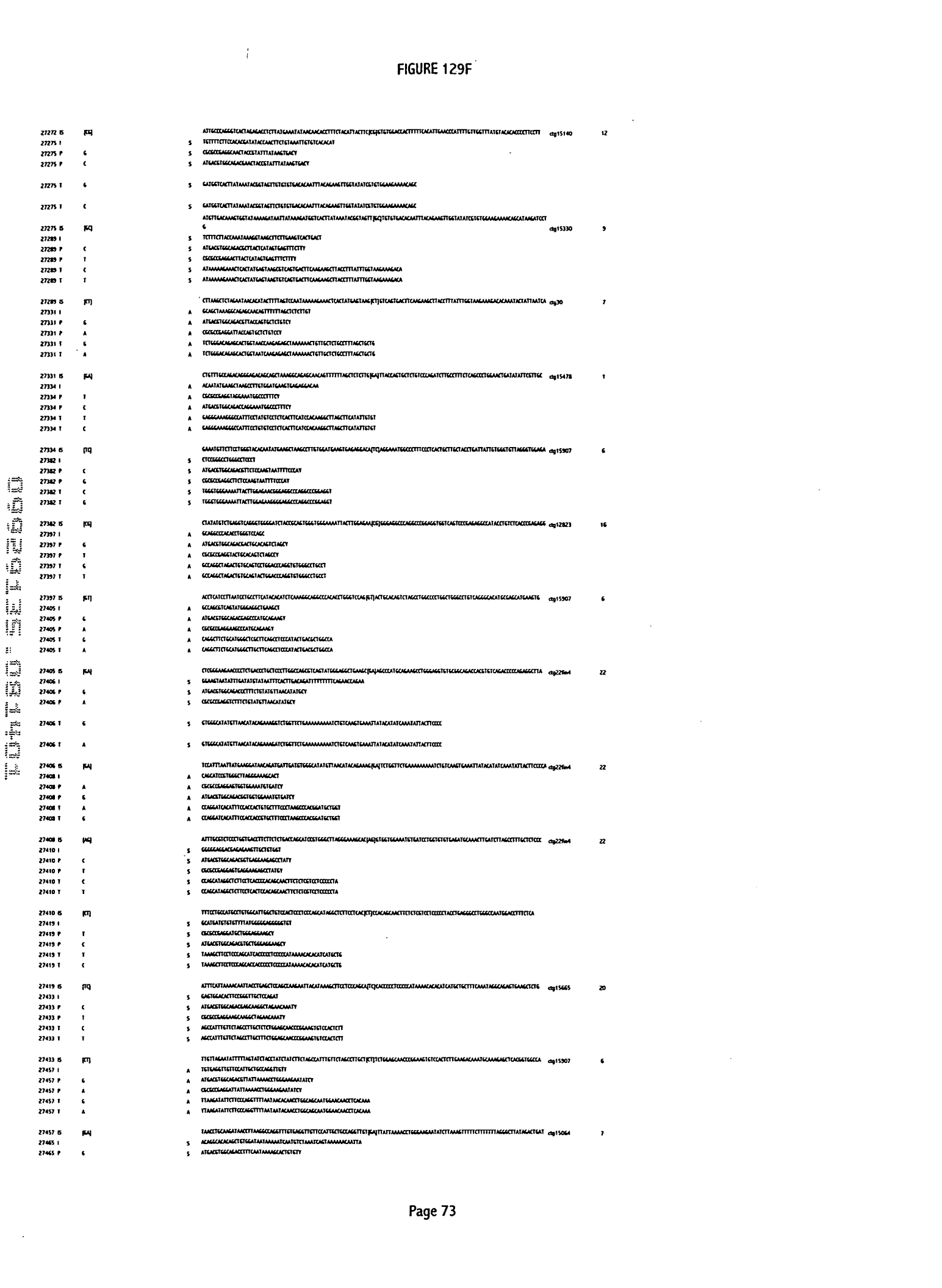
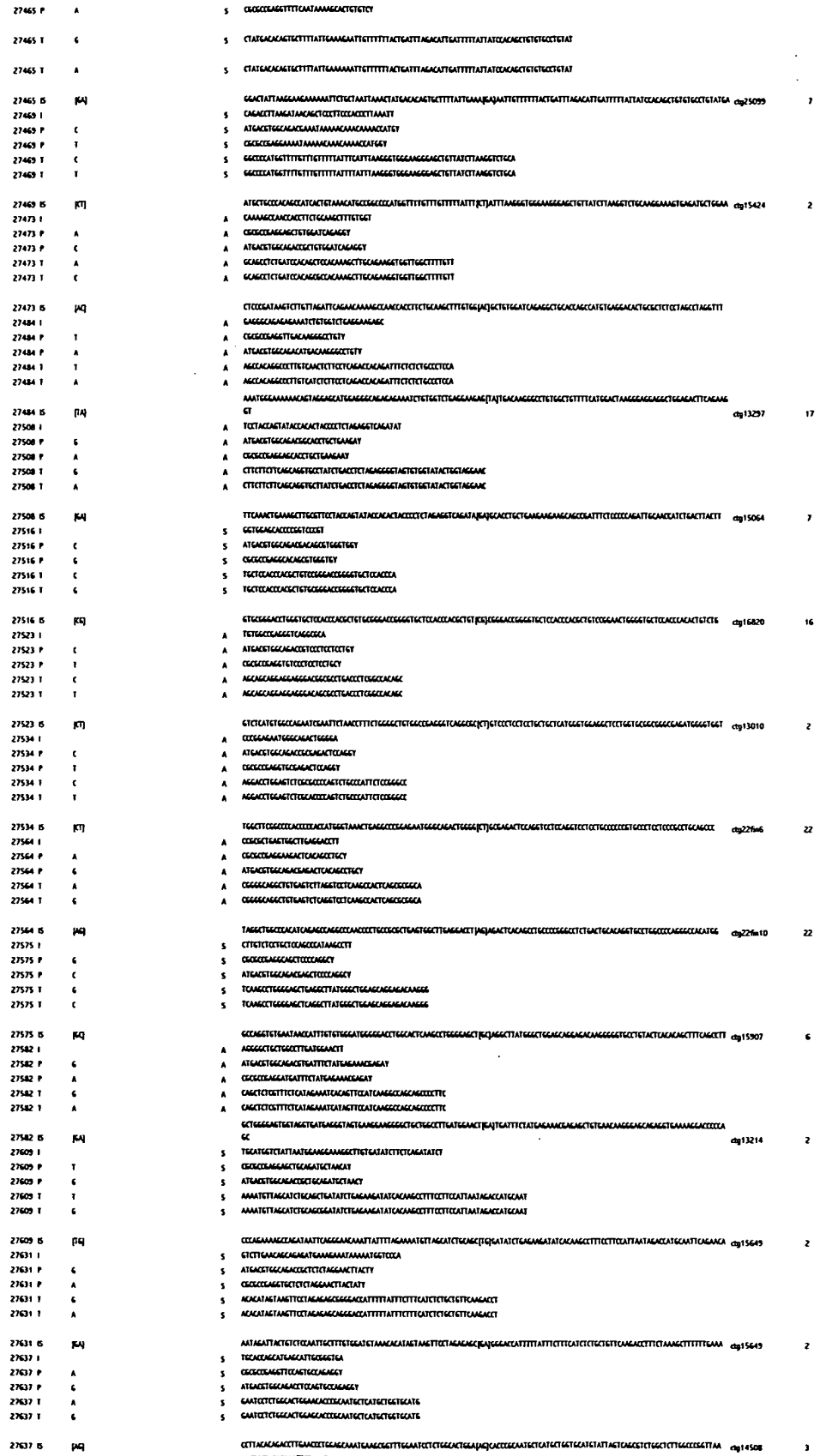
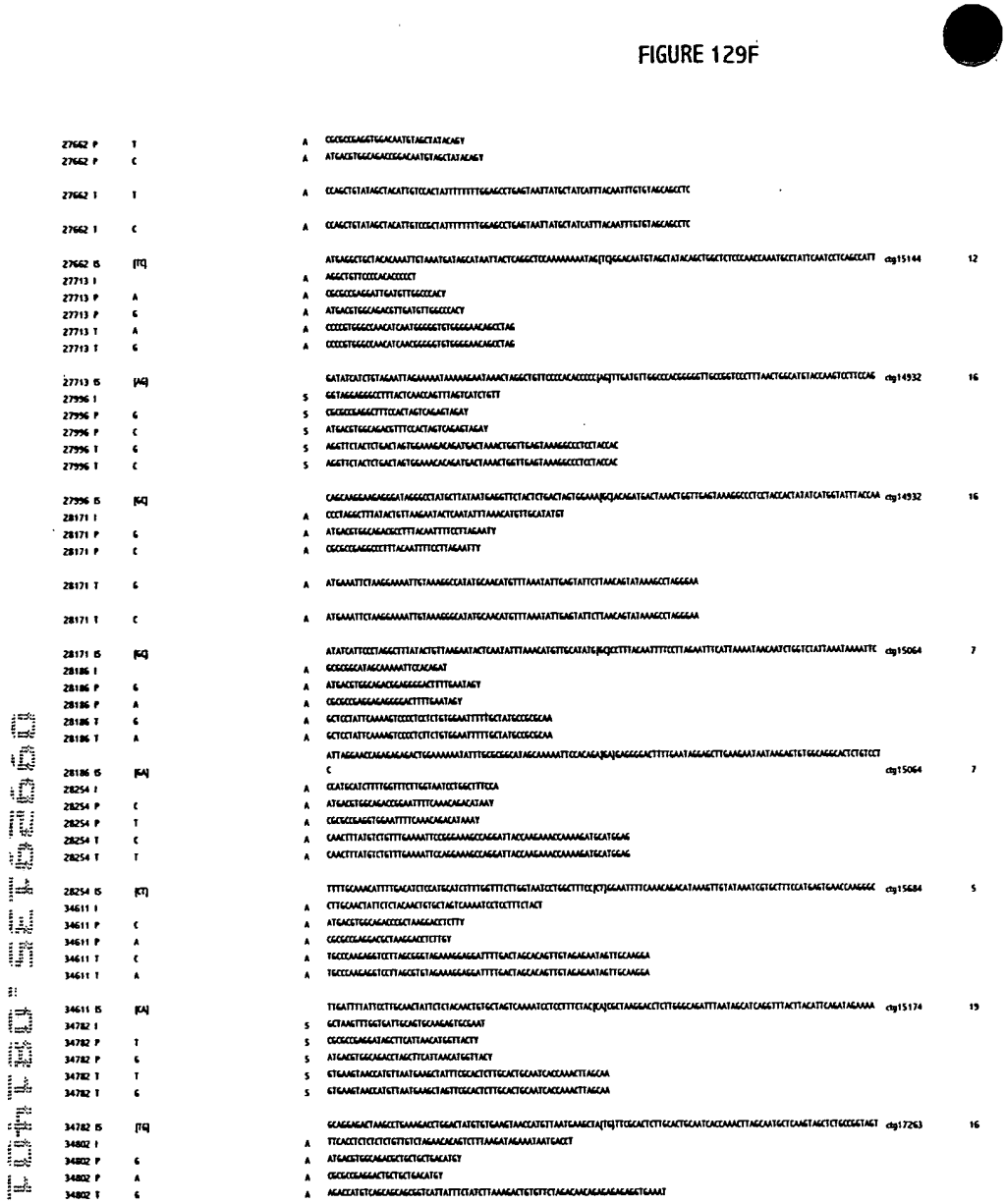


FIGURE 129F



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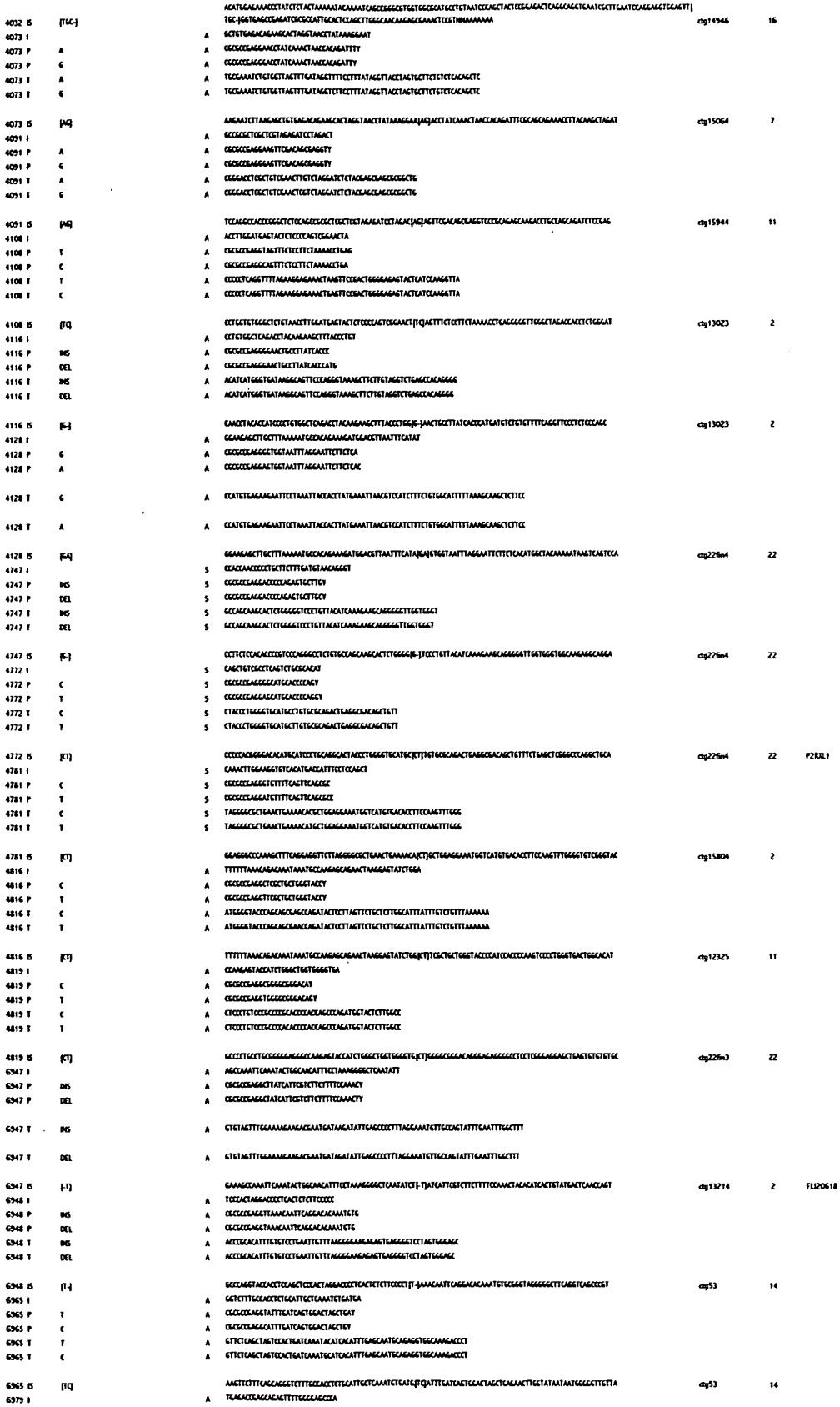


FIGURE 129F

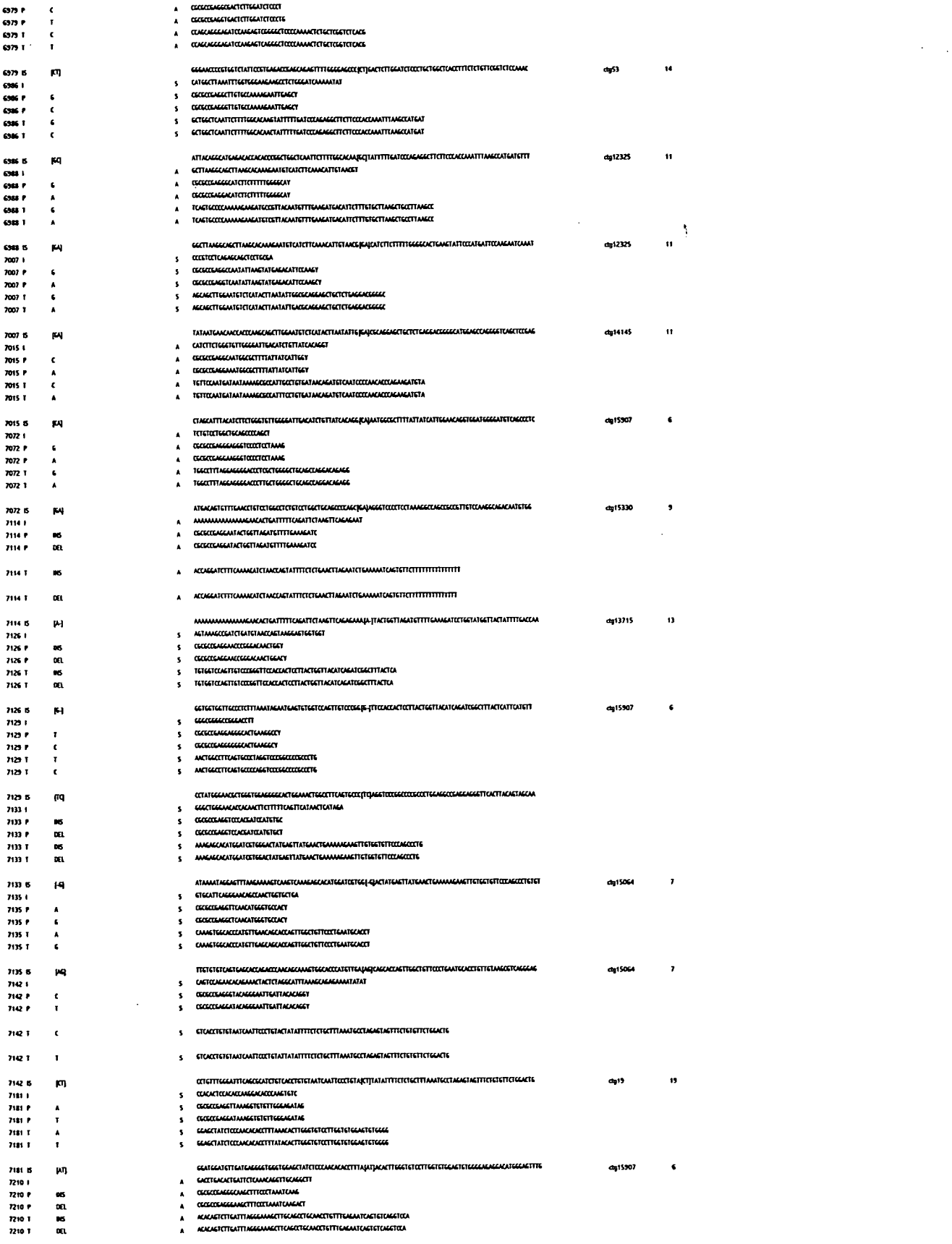


FIGURE 129F

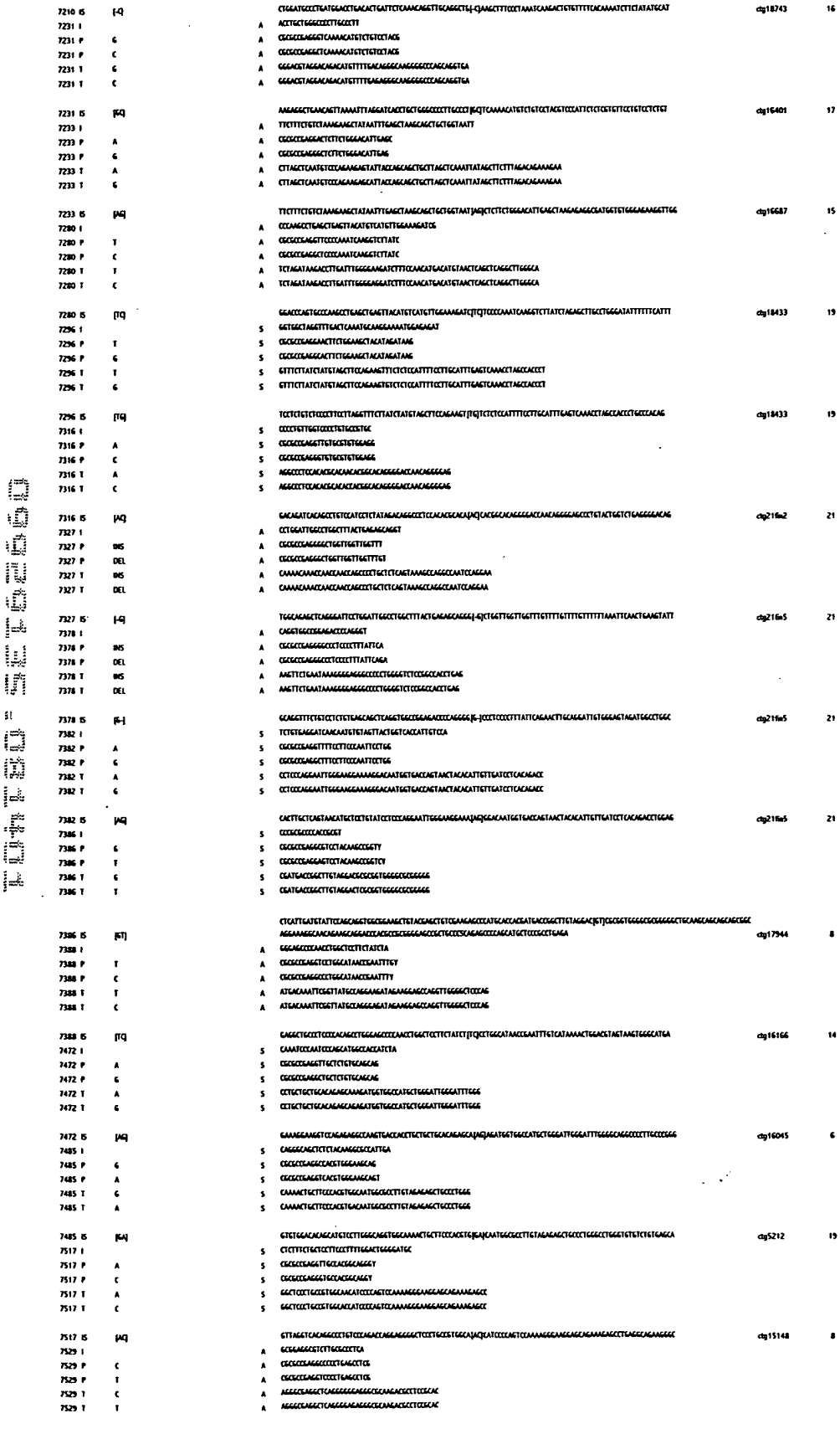


FIGURE 129F

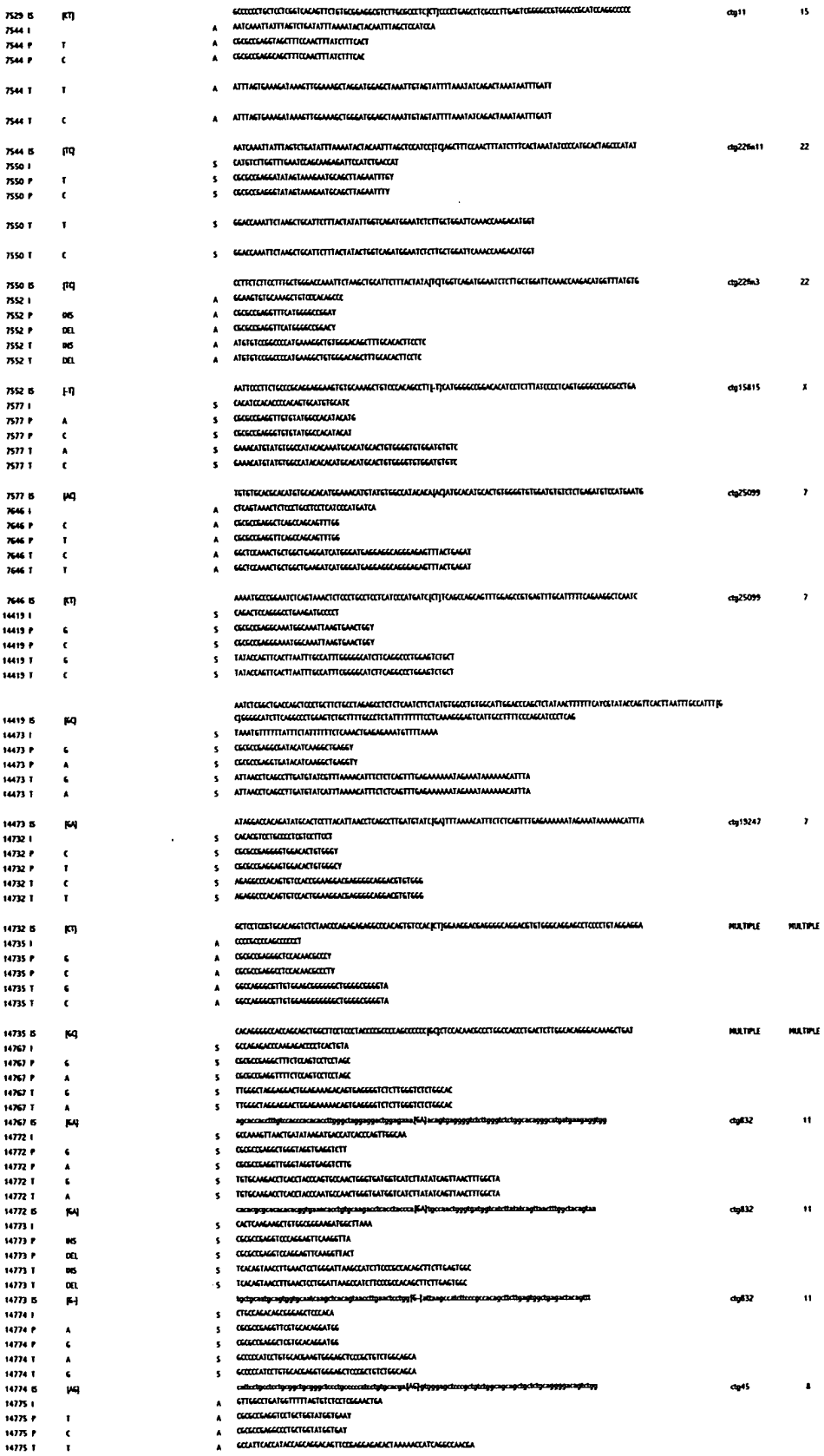


FIGURE 129F





14775 IS	[TC]			ctdgaagttgactcgtggcctgatgtgttttcagtgtctcctctggaactg[TC]cctgctggtatgtggtgaatggcagattttggactgactccagtggacca	MULTIPLE	MULTIPLE
14782 I		A	A	ACATCACCGCCCCCTGACAGAGCT		
14782 P	G	A	A	CGCGCCGAGGGAGCTTAACGGATTAATAAGCG		
14782 P	C	A	A	CGCGCCGAGGCAGCTTAACGGATTAATAAGCG		
14782 T	G	A	A	GCTGGGCTTATTAATCCGTTAAGCTCGCTCTGTCACGGGCGCCGTGATGTGC		
14782 T	C	A	A	GCTGGGCTTATTAATCCGTTAAGCTGGCTCTGTCACGGGCGCCGTGATGTGC		
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14824 I		S		CTGGTCCCCTCTAGCAGTGTCCTCGCTGGT		
14824 P	T	S		CGCGCCGAGGAAGACTTCCAGCTCAGCA		
14824 P	C	S		CGCGCCGAGGAAGACTTCCAGCTCAGCA		
14824 T	T	S		TCTATGCTGAGCTGGAAGTCTTCCAGCAGGAACACTGCTAGAGGGGACCAGTA		
14824 T	C	S		TCTATGCTGAGCTGGAAGTCTCCCAGCAGGAACACTGCTAGAGGGGACCAGTA		
14824 IS	[TC]			atcaagtcagcagtgcacatcacgaggccatctatgctgcgagctggaagtct[TC]ccagcagggacactgctagagggggaccagtagtgcctttgggcaggaagt	ctg25059	7
14825 I		A		CATAATGGGTGCTCGACTCAGGTACGGCT		
14825 P	G	A		CGCGCCGAGGGTATAGTGGGTGCTCGACT		
14825 P	A	A		CGCGCCGAGGATATAGTGGGTGCTCGACT		
14825 T	G	A		CATCAGTCGAGCACCCACTATAGGCCTACCTCAGCCGAGCACCCATTATGCA		
14825 T	A	A		CATCAGTCGAGCACCCACTATATGCCCTACCTCAGCCGAGCACCCATTATGCA		
14825 IS	[GA]			ggtgctcggctgatgtctgagtgcataatgggtgctcggctgagggtaggc[GA]tatagtgggtgctcgactgatgtagagtgtataatgggtgctcggctgag	ctg13740	5
14837 I		S		GTGAGTGCACATGTGGGGCAGGGTCTCCTCT		
14837 P	C	S		CGCGCCGAGGGCTGGTTCCCGATGC		
14837 P	T	S		CGCGCCGAGGACTGGTTCCCGATGCC		
14837 T	C	S		AAAGGGCATCGGGAAACAGCAGCAGACACCTCCCCACATGTGCACTCACAC		
14837 T	T	S		AAAGGGCATCGGGAACAGTGAGGAGACCTCCCCACATGTGCACTCACAC		
14837 IS	[CT]			gtcctctgtgtatctttatagagatgaaagtaaaggcatcgggaacag[CT]gaggagacccttcccacatgtgcactcacagcatgtgatcccgtgaccccg	ctg16114	X
14840 I		S		GTCACTGGATGACATCATTGAAGTGGAGGTATTCTAGCAAATGACTT		
14840 P	C	S		CGCGCCGAGGCATAAAATATGTGCCGTTGTGTGTGY		
14840 P	T	S		CGCGCCGAGGCATAAAATATGTGCCGTTGTGTGY		
14840 T	C	S		GTTCCACACAACGGCACATATTTTACAGTCATTTGCTAGAATACCTCCACTTCAATGATGTCATCCAGTGACCC		
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14841 I		A		AGAGCAAGTGCTCAACTCCCTTCTCACTGCAGAT		
14841 P	G	A		CGCGCCGAGGGGCTGCCACAGACAAGY		
14841 P	A	A		CGCGCCGAGGAGCTGCCACAGACAAGY		
14841 T	G	A		GAGGCTTGTCTGTGGCAGCCTCTGCAGTAGAAGGGGAGTTGAGCACTTGCTCTGT		
14841 T	A	A		GAGGCTTGTCTGTGGCAGCTTCTGCAGTAGAAGGGGAGTTGAGCACTTGCTCTGT		
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14842 I		S		CAGACACACACCACTCCTGACTCGGTCATTTCTGACT		
14842 P	C	S		CGCGCCGAGGGTTGTCCTTTGGCTGCTAGY		
14842 P	T	S		CGCGCCGAGGATTGTCCTTTGGCTGCTAG		
14842 T	C	S		GGAACTAGCAGCCAAAGGACAACCTCAGAAATGACCGAGTCAGGAGTGGTCTGTGTCTCGAG		
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14848 I		S		CATCTCCATCCCCTCTGTCACTGTGCAGAAGGAA		
14848 P	G	S		CGCGCCGAGGCCCATCTCTCACTGAAGCA		
14848 P	A	S		CGCGCCGAGGTCCATCTCTCACTGAAGCA		
14848 T	G	S		CCTCTGCTTCAGTGAGGATGGGTCTTCTCCACAGTGACAGAGGGGATGGAGATGTG		
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14848 IS	[GA]			ccgcaagtcctgcccacgcccctgggagcctctgcttcagtgagggatgg[GA]tcttctcccacagtgacagagggggatggagatgtggcaggagttttcttgg	ctg17004	X
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14859 P	C	A		CGCGCCGAGGCACAAAATGATAATATTACCTTGAACCTATAAA		
14859 P	T	A		CGCGCCGAGGTACAAAATGATAATATTACCTTGAACCTATAAAG		
14859 T	C	A		AGGTCTTTATAGGTTCAAGGTAATATTATCATTTTGTGGGTCAAATGTTCAGGCTGTTAAATGAGAATAAAACCAGATTACAAAATAG		
14859 T	T	A		AGGTCTTTATAGGTTCAAGGTAATATTATCATTTTGTAGGTCAAATGTTCAGGCTGTTAAATGAGAATAAAACCAGATTACAAAATAG		
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14860 I		A		TGAGCCCTTTGGTGCATCTGGCTCTGTGTTAAATACAT		
14860 P	A	A		CGCGCCGAGGATGTGTACAAAAAATGCCCSY		
14860 P	G	A		CGCGCCGAGGGTGTGTACAAAAAATGCCCSY		
14860 T	A	A		GTCGCGGGCATTTTTTGTACACATTGTATTTAACACAGAGCCAGATGCACCAAAGGCTCAGC		
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14862 I		S		CCTCTTGAGGCCTAGGAGCATTTTCATCGGGGTTTGA		
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14862 P	A	S		CGCGCCGAGGTGTAGGGTTTCTTAAAGTCACTCY		
14862 T	G	S		CCCAGAGTGACTTTAAGAAACCCTACACAAACCCCATGAAAATGTCTCCTAGGCCTCAAGAGGGA		
14862 T	A	S		CCCAGAGTGACTTTAAGAAACCCTACACAAACCCCATGAAAATGTCTCCTAGGCCTCAAGAGGGA		
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14877 I		S		TCTCCTTGAGCAAGGCTATGGACTTCTTGAAGAACAGAA		
14877 P	G	S		CGCGCCGAGGCAGTTTTCATCTCTGTGCTTCAY		
14877 P	A	S		CGCGCCGAGGTAGTTTTCATCTCTGTGCTTCATTY		
14877 T	G	S		AGACAATGAAGCACAGAGATGAAAACTGTCTGTCCTTCAAGAAGTCCATAGCCTCCTCAAGGAGACA		
14877 T	A	S		AGACAATGAAGCACAGAGATGAAAACTATCTGTCCTTCAAGAAGTCCATAGCCTCCTCAAGGAGACA		
14877 IS	[GA]			gacaacacagccagggccctgtgctagacaatgaagcacagagatgaaaacct[GA]ctgtccttcaagaagtccatagcctcctcaaggagacaaagatattaaa	ctg16031	17
14890 I		A		GCAGGAGAATTGCTTGAACCCAGGAGGCCAAT		
14890 P	G	A		CGCGCCGAGGGGCTCACCACCGCAY		
14890 P	A	A		CGCGCCGAGGAGCTCACCACCGCAY		
14890 T	G	A		CGGCTGCGGTGCTGAGCTTCGCCTCTCTGGGTTCAAGCAATTCTCTTGCCT		
14890 T	A	A		CGGCTGCGGTGCTGAGCTTCGCCTCGTTGGGTTCAAGCAATTCTCTTGCCT		
14890 IS	[GA]			agctactgggagggctgagggcagggagaatgcttgtaacccagggagggcga[GA]gctcacacacgcagccgagatccccgccactgcactccagccgtgggcaaca	ctg22fm4	22
14905 I		S		CCTGGTGAGAGGCGATTAGATCATGAGGCGGTA		
14905 P	A	S		CGCGCCGAGGTACCCTCATGCTTTTCTCGT		
14905 P	G	S		CGCGCCGAGGCACCCTCATGCTTTTCTCG		
14905 T	A	S		TATCACGAGAAAAGCATGAGGGTAACCGCCTTCATGATCTAATCGCCTCTCACCAGGTG		
14905 T	G	S		TATCACGAGAAAAGCATGAGGGTGACCGCCTTCATGATCTAATCGCCTCTCACCAGGTG		
14905 IS	[AG]			catccaaaactcgtgagaactcactcactctcacgagaaaagcatgagggt[AG]accgccttcatgatctaatcgcctctcaccagggtgcctcccccaacatgt	ctg13247	7
14939 I		S		GCAACCTCTGTTAGGCAGCAGAGTTTGTTGTGAGTCTATTGG		
14939 P	G	S		CGCGCCGAGGCTGCAGCTGAGCTCTGY		
14939 P	A	S		CGCGCCGAGGTTGCAGCTGAGCTCTGY		
14939 T	G	S		TCCCACACAGCTCAGCTGCAGCAATAGACTCACAACAAACTCTGCTGCCTAACAGAGGTTGCAC		
14939 T	A	S		TCCCACAGAGCTCAGCTGCAACAATAGACTCACAACAAACTCTGCTGCCTAACAGAGGTTGCAC		
14939 IS	[GA]			tccgttgcctggcctgggcatttcagcctctcccacagagctcagctgcca[GA]caatgactcacacaacaaactctgctgcctaacagaggttgcacttaactc		
14963 I		S		ATCTGAAATATTATCCATTCAACATGCAATCCACATACAAATTTGTATTAA		
14963 P	A	S		CGCGCCGAGGTTGTTGTTATTTTTTAGACACAAGGTCY		
14963 P	G	S		CGCGCCGAGGCTGTTGTTATTTTTTAGACACAAGGTY		
14963 T	A	S		GCAAGACCTTGTGTCTAAAAAATAACAACAATAATACAAATTTGTATGTGGATTGCATGTTGAATGGATAATATTTCAGAT		

FIGURE 129F

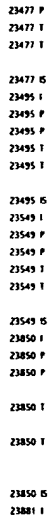
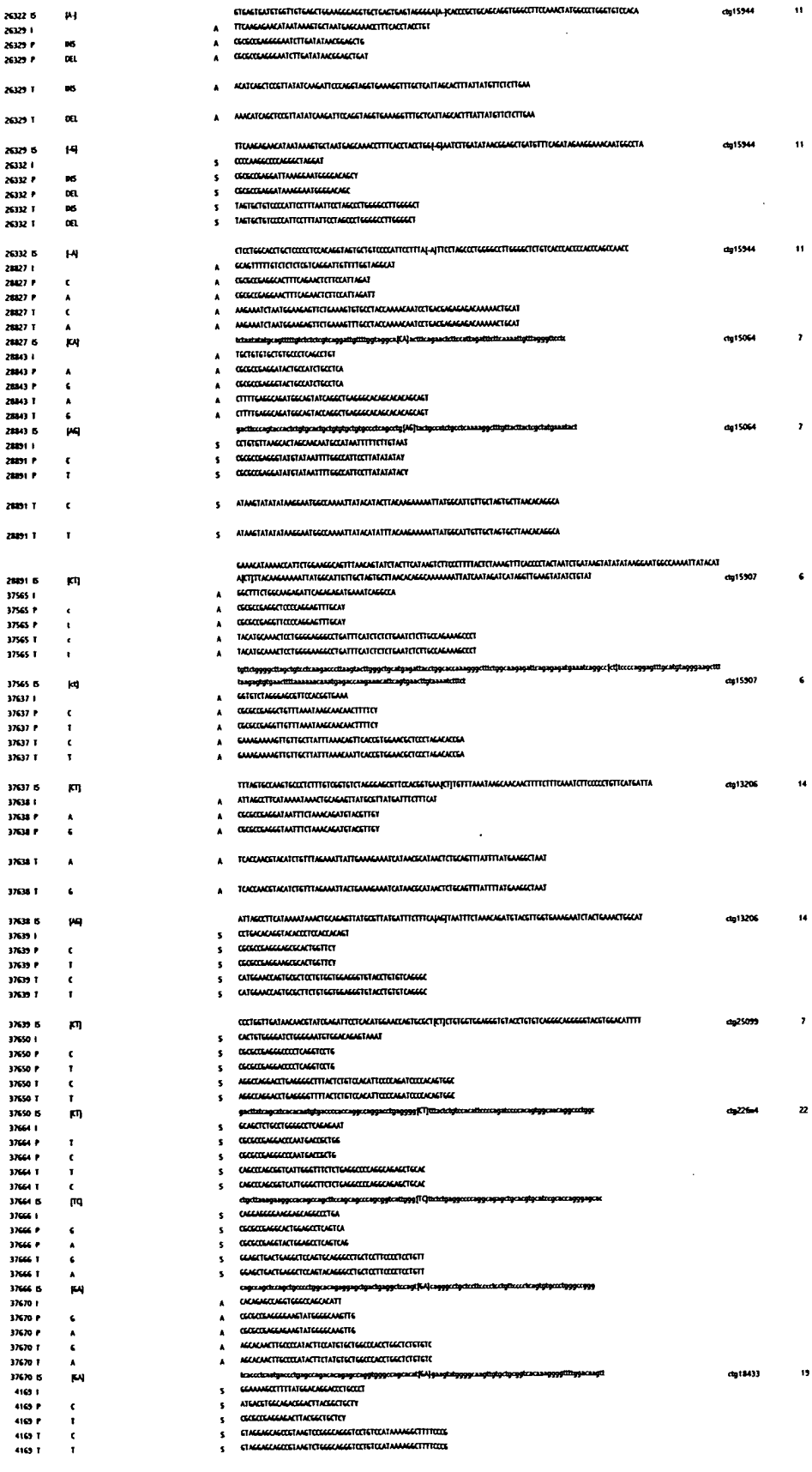
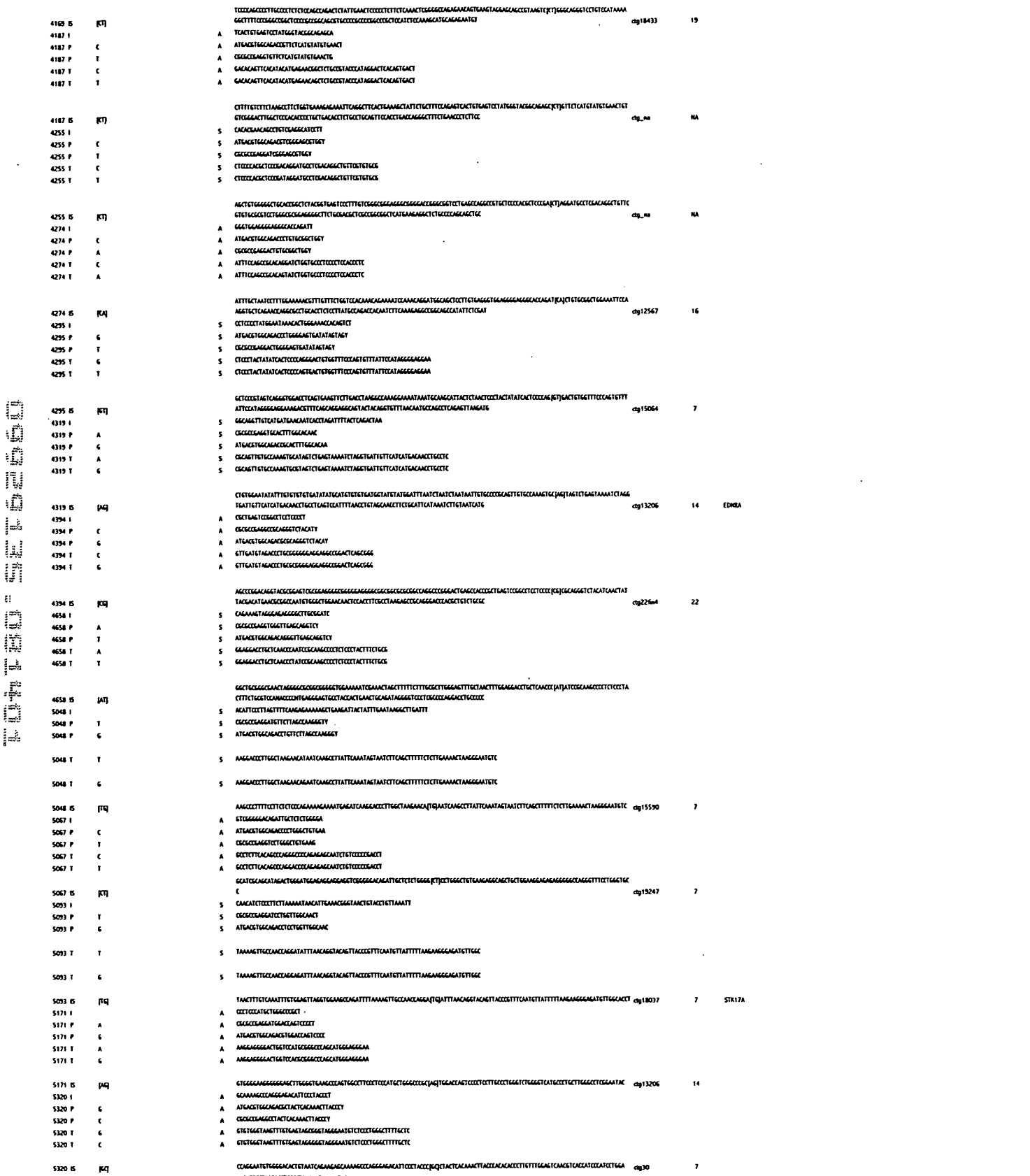


FIGURE 129F





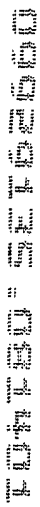


FIGURE 129F

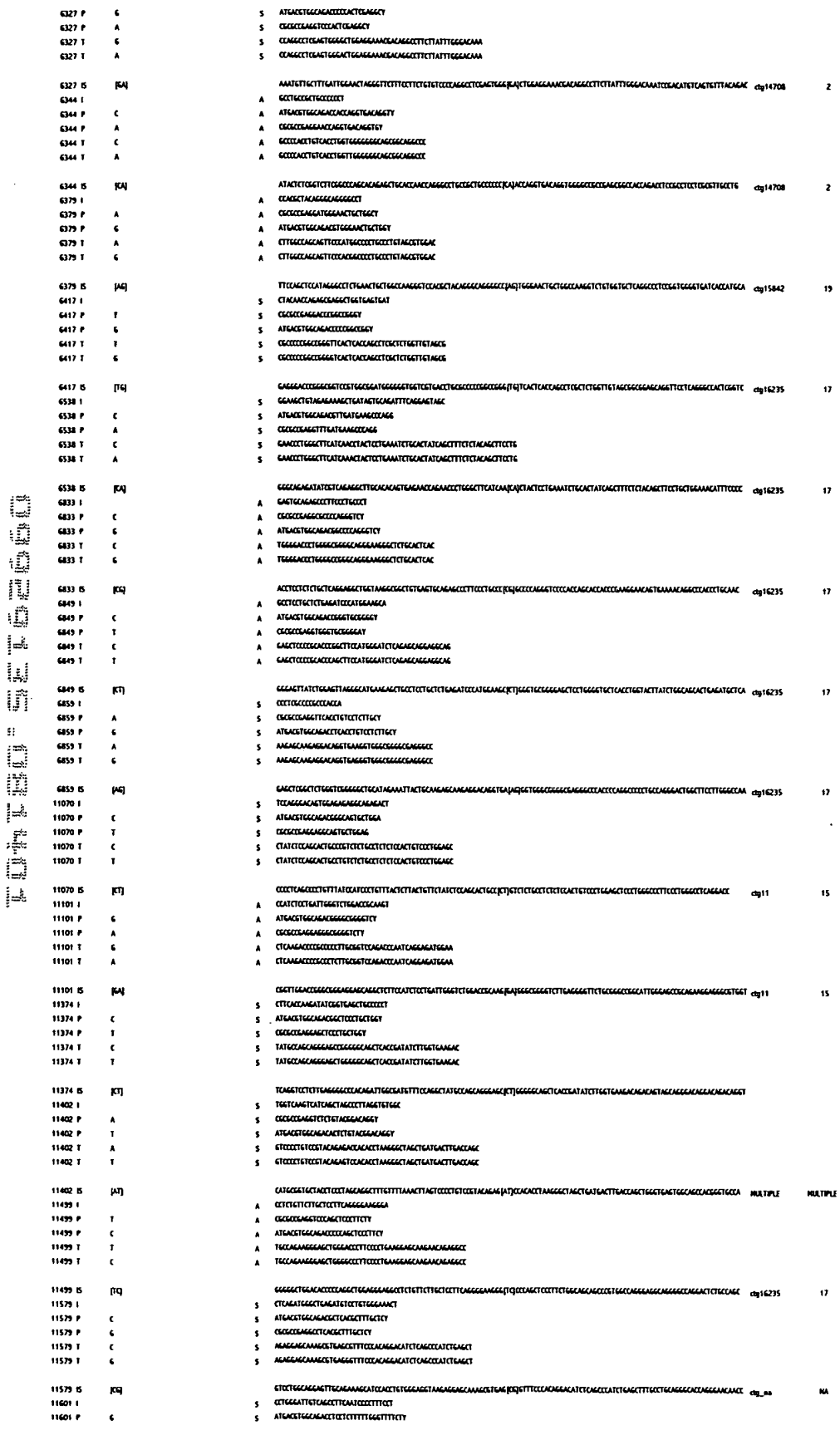
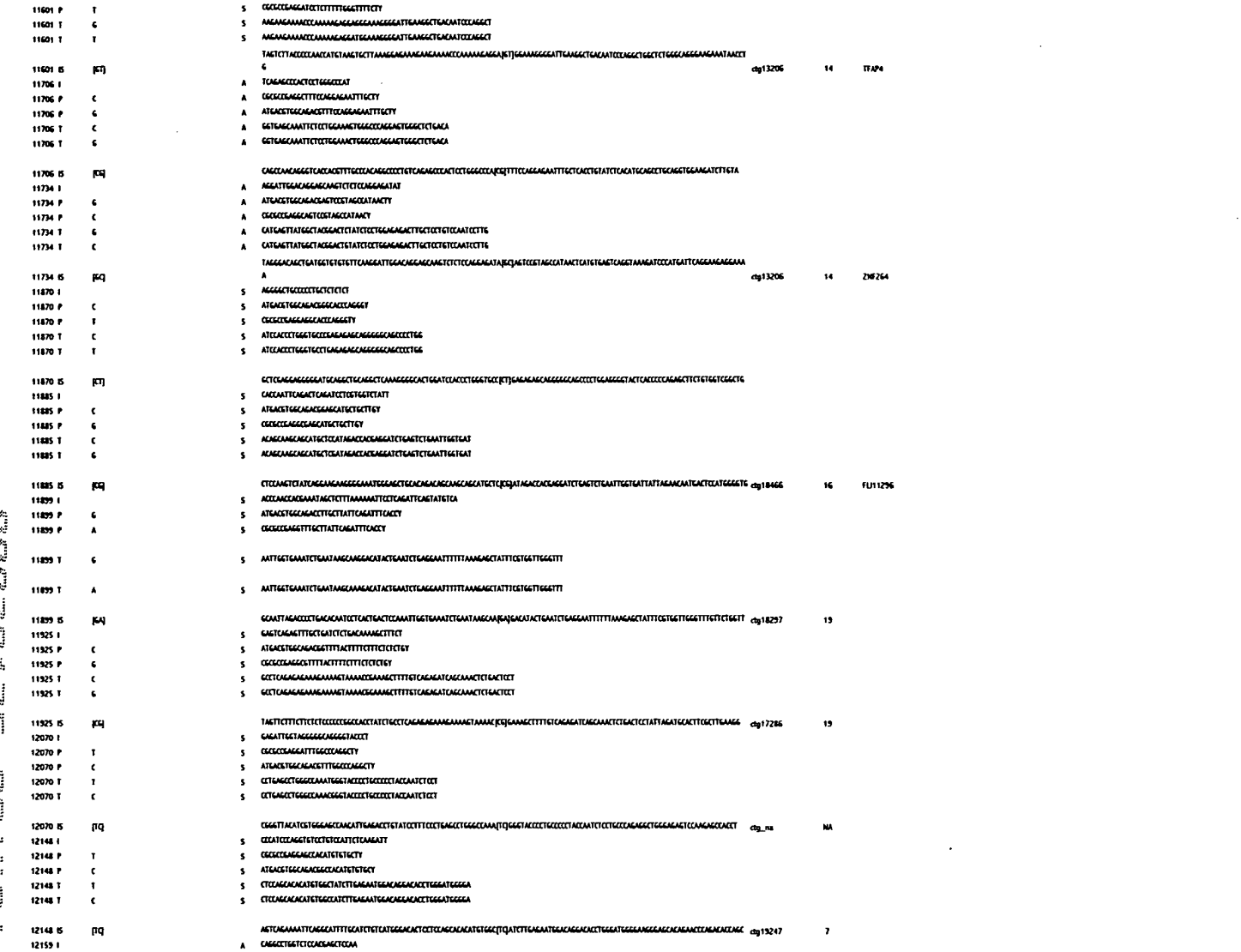
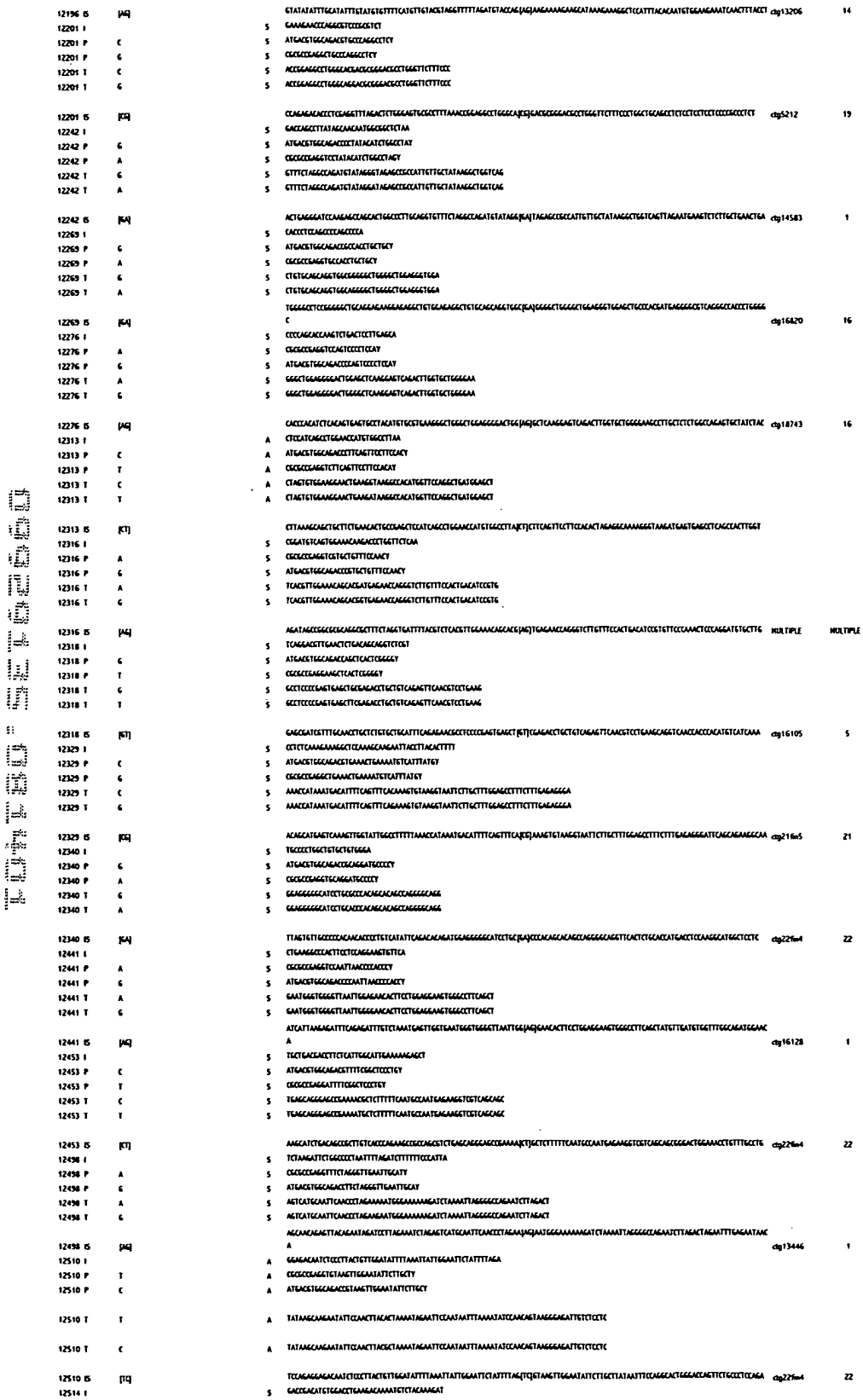


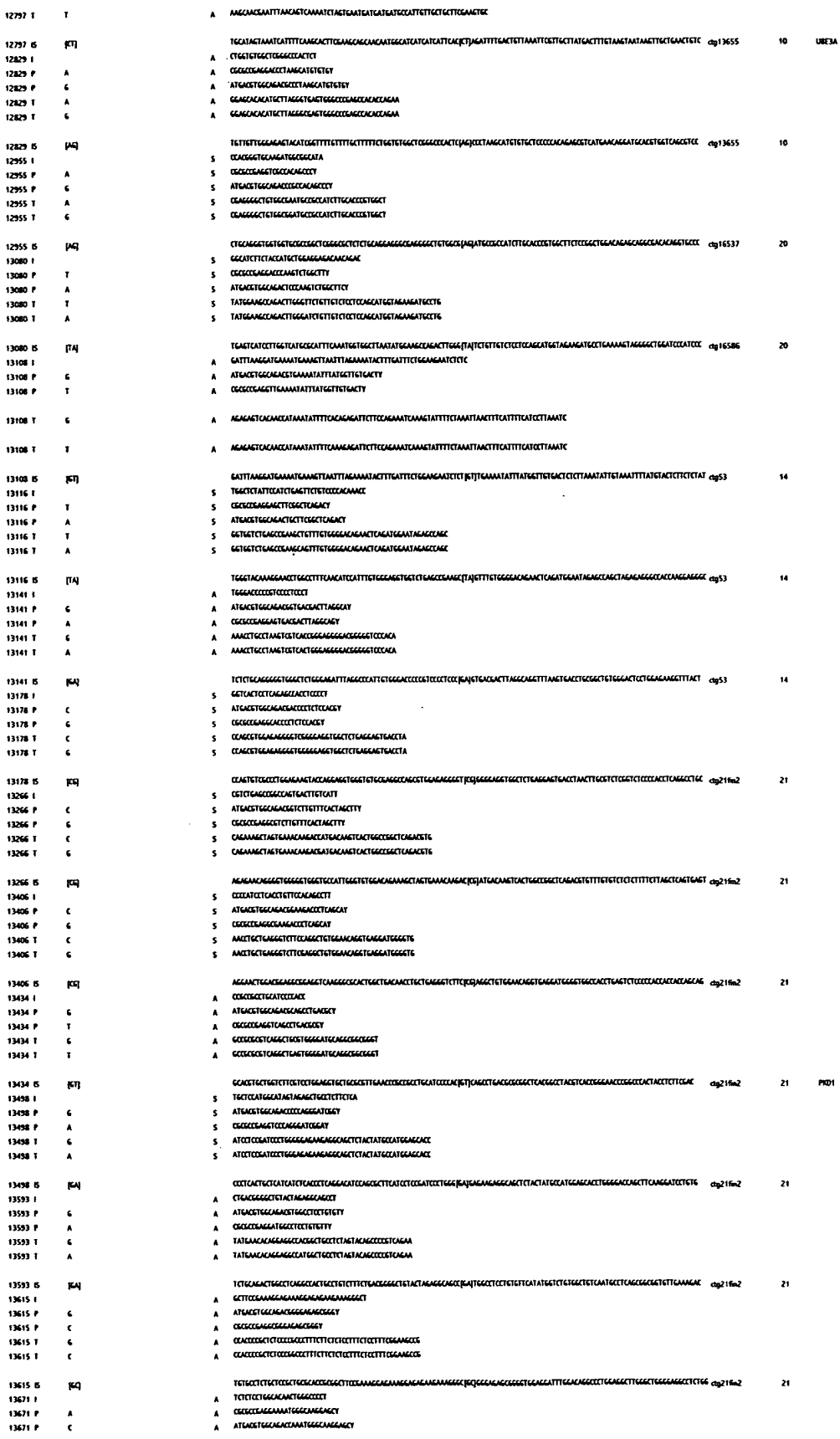
FIGURE 129F


11601 P T S CGCCCCGAGGATCTCTTTTTGGGTTTTCTY
11601 T G S AAGAAGAAAACCCAAAAAGAGAAGCGAAAGGGGATTGAAGGCTGACAATCCCAGGCT
11601 T T S AAGAAGAAAACCCAAAAAGAGGATGGAAAGGGGATTGAAGGCTGACAATCCCAGGCT
11601 IS (GT) TAGTCTTACCCCCAACCATGTAAGTGCTTAAAGAGAAAAGAACAAAACCCAAAAACAGGA[GT]GGAAAGGGGATTGAAGGCTGACAATCCCAGGCTGGCTCTGGGCAGGGAAGAAATAACCT G ctg13206 14 ITAP4
11706 I A TCAGAGCCCACTCCTGGGCCCAT
11706 P C A CGCGCCGAGGCTTTTCCAGGAGAATTTGCTY
11706 P G A ATGACGTGGCAGACAGTTCCAGGAGAATTTGCTY
11706 T C A GGTGAGCAAATTCTCCTGGAAAGTGGGCCCAGGAGTGGGCTCTGACA
11706 T G A GGTGAGCAAATTCTCCTGGAAACTGGGCCCAGGAGTGGGCTCTGACA
11706 IS (CG) CAGCCAACAGGGTCACCACGTTTGCCCACAGGCCCCTGTCAGAGCCCACTCCTGGGCCCA[CG]TTTCCAGGAGAATTTGCTCACCTGTATCTCACATGCAGCCTGCAGGTGGAAGATCTTGTA
11734 I A AGGATTGGACAGCAGCAAGTCTCTCCAGGAGATAT
11734 P G A ATGACGTGGCAGACAGTCCTAGCCATAACTY
11734 P C A CGCGCCGAGGCAGTCCGTAGCCATAACT
11734 T G A CATGAGTTATGGCTACGGACTCTATCTCCTGGAGAGACTTGCTCCTGTCCAATCCTTG
11734 T C A CATGAGTTATGGCTACGGACTCTATCTCCTGGAGAGACTTGCTCCTGTCCAATCCTTG
11734 IS (GC) TAGGGACACCTGATGGTGTGTGTTCAGGATTGGACAGCAGCAAGTCTCTCCAGGAGATA[GC]AGTCCGTAGCCATAACTCATGTGAGTCAGGTAAAGATCCCATGATTCAGGAAGAGGAAA A ctg13206 14 ZNF264
11870 I S AGGGGCTGCCCCCTGCTCTCTCT
11870 P C S ATGACGTGGCAGACAGGCACCCAGGGY
11870 P T S CGCGCCGAGGAGGCACCCAGGGTY
11870 T C S ATCCACCCTGGGTGCCCAGAGAGCAGGGGGCAGCCCTGG
11870 T T S ATCCACCCTGGGTGCCTGAGAGAGCAGGGGGCAGCCCTGG
11870 IS (CT) GCTCCAGGAGGGGGATGCAGGCTGCAGGCTCAAAGGGGCACTGGATCCACCCTGGGTGCC[CT]GAGAGAGCAGGGGGCAGCCCTCGAGGGGTACTCACCCCCAGAGCTTCTGTGGTCGGCTG
11885 I S CACCAATTCAGACTCAGATCCTCGTGGTCTATT
11885 P C S ATGACGTGGCAGACGAGCATGCTGCTTGY
11885 P G S CGCGCCGAGGCAGCATGCTGCTTGY
11885 T C S ACAGCAAGCAGCATGCTCCATAGACCACGAGGATCTGAGTCTGAATTGGTGAT
11885 T G S ACAGCAAGCAGCATGCTCGATAGACCACGAGGATCTGAGTCTGAATTGGTGAT
11885 IS (CG) CTCCAAGTCTATCAGGAAGAAGGGGAAATGGGAGCTGCACAGACAGCAAGCAGCATGCTC[CG]ATAGACCACGAGGATCTGAGTCTGAATTGGTGATTATTAGAACAATGACTCCATGGGGTG ctg18466 16 FLJ11296
11899 I S ACCAACCACGAAATAGCTCTTTAAAAATTCCTCAGATTCAGTATGTCA
11899 P G S ATGACGTGGCAGACCTTGCTTATTCAGATTTCACCY
11899 P A S CGCGCCGAGGTTTGCTTATTCAGATTTCACCY
11899 T G S AATTGGTGAAATCTGAATAAGCAAGGACATACTGAATCTGAGGAATTTTTTAAAGAGCTATTTCGTGGTTGGGTTT
11899 T A S AATTGGTGAAATCTGAATAAGCAAAGACATACTGAATCTGAGGAATTTTTTAAAGAGCTATTTCGTGGTTGGGTTT
11899 IS (GA) GCAATTAGACCCCTGACACAATCCTCACTGACTCCAAATTGGTGAAATCTGAATAAGCAA[GA]GACATACTGAATCTGAGGAATTTTTTAAAGAGCTATTTCGTGGTTGGGTTTGTTCTGGTT ctg18297 19
11925 I S GAGTCAGAGTTTGCTGATCTCTGACAAAAGCTTTCT
11925 P C S ATGACGTGGCAGACAGGTTTTACTTTTCTTTCTCTCTGY
11925 P G S CGCGCCGAGGCGTTTTACTTTTCTTTCTCTCTGY
11925 T C S GCCTCAGACAGAAAGAAAAGTAAAACCGAAAGCTTTTGTCAGAGATCAGCAAACTCTGACTCCT
11925 T G S GCCTCAGACAGAAAGAAAAGTAAAACCGAAAGCTTTTGTCAGAGATCAGCAAACTCTGACTCCT
11925 IS (CG) TAGTTCTTTCTTCCTCCCCCCGGCCACCTATCTGCCTCAGAGAGAAAGAAAAGTAAAAC[CG]GAAAGCTTTTGTCAGAGATCAGCAAACTCTGACTCCTATTAGATGCACTTCGCTTGAAGG ctg17286 19
12070 I S GAGATTGGTAGGGGGCAGGGGTACCCT
12070 P T S CGCGCCGAGGATTTGGCCCAGGCTY
12070 P C S ATGACGTGGCAGACGTTTGGCCAGGCTY
12070 T T S CCTGAGCCTGGGCCAAATGGGTACCCCTGCCCCCTACCAATCTCCT
12070 T C S CCTGAGCCTGGGCCAAACGGGTACCCCTGCCCCCTACCAATCTCCT
12070 IS (TC) CGGGTTACATCGTGGGAGCCAACATTGAGACCTGTATCCTTTCCCTGAGCCTGGGCCAAA[TC]GGGTACCCCTGCCCCCTACCAATCTCCTGCCCAGAGGCTGGCAGAGTCCAAGACGCACCT ctg_na NA
12148 I S CCCATCCCAGGTGTCCTGTCCATCTCAAGATT
12148 P T S CGCGCCGAGGAGCCACATGTGTGCTY
12148 P C S ATGACGTGGCAGACGGCCACATGTGTGCY
12148 T T S CTCCAGCACACATGTGGCTATCTTGAGAATGGACAGGACACCTGGGATGGGGA
12148 T C S CTCCAGCACACATGTGGCCATCTTGAGAATGGACAGGACACCTGGGATGGGGA
12148 IS (TC) AGTCAGAAAATTCAGGCATTTTGCAATCTGTCATGGGACACTCCTCCAGCACACATGTGGC[TC]ATCTTGAGAATGGACAGGACACCTGGGATGGGGAAGGGAGCAGCAGAACCCAGACACCAGC ctg15247 7
12159 I A CAGGCCTGGTCTCCACGAGCTCCAA
12159 P C A ATGACGTGGCAGACCCTCCTGGGTCTGGY
12159 P T A CGCGCCGAGGTGTCCTGGGTCTGGY
12159 T C A GAGGACCAGACCCAGGACGTGGAGCTCGTGGAGACCAGGCCTGCA
12159 T T A GAGGACCAGACCCAGGACATGGAGCTCGTGGAGACCAGGCCTGCA
12159 IS (CT) CCACAGCTGCCCACTTCTGGAAGGTTCCATCCCCTGCAGGCCTGGTCTCCACGAGCTCCA[CT]GTCCTGGGTCTGGTCCTCCCCATCCCSCTGCCAGGTCAGTATGATCTCCSCAGGGTAGAA ctg16400 17 MULTIPLE SHORT GENE NAMES
12167 I S TGTTTAGTCAGTAGCCTCTCAAGACCCTTCCAACTTT
12167 P G S ATGACGTGGCAGACCTTCTCTAACTTTGAAAATGCTY
12167 P T S CGCGCCGAGGATTCTCTTAACTTTGAAAATGCTY
12167 T G S AAGCAGCATTTTCAAAGTTAAGAAGAAGAAGGTGGAAGGGTCTTCAGAGGCTACTGACTAAACAGA
12167 T T S AAGCAGCATTTTCAAAGTTAAGAAGAATAAGGTGGAAGGGTCTTCAGAGGCTACTGACTAAACAGA
12167 IS (GT) GAGAACTCTTAACTATTAAAACTATAGCTTGTAAAGCAGCATTTTCAAAGTTAAGAAGA[GT]AAGGTGGAAGGGTCTTCAGAGGCTACTGACTAAACAGATGAAAATGAAGGTATGGAGTT T MULTIPLE MULTIPLE
12170 I A GACAGCTCTCAGSTTGGCACATTTATTTGATCTCTCTTA
12170 P C A ATGACGTGGCAGACCCTGCCACCCCCY
12170 P T A CGCGCCGAGGTCTGCCACCCCCAY
12170 T C A ACTCTGGGGGTGGCAGGAAGCAGAGATCAAATAAATGTGCCAACGTGAGAGCTGTCAC
12170 T T A ACTCTGGGGGTGGCAGAAAGCAGAGATCAAATAAATGTGCCAACGTGAGAGCTGTCAC
12170 IS (CT) CACTGCCCCAGATCCCAAAGTGACAGCTCTCACGTTGGCACATTTATTTGATCTCTCTT[CT]CTGCCACCCCCAGAGTGACTCTGGAGGCCCCCTGGTCTGTGACGAGACCCTCCAAGGCAT ctg13103 9
12171 I A GCCTCTTCTCACTGCCTCCAGAGAGGTGGT
12171 P G A ATGACGTGGCAGACGTGCCTGGGTTGAGAY
12171 P A A CGCGCCGAGGATGCCTGGGTTGAGAGY
12171 T G A GTGTCTCTCAACCCAGGCACCCACCTCTCTGGAGGCAGTGAGAAGAGGCTG
12171 T A A GTGTCTCTCAACCCAGGCATCCACCTCTCTGGAGGCAGTGAGAAGAGGCTG
12171 IS (GA) CAGACATGCTCATACCATTCCCATTTTCTCAGCCTCTTCTCACTGCCTCCAGACAGGTGG[GA]TGCCTGGGTTGAGAGACAGACTGCTACGTGATAGATGTTGAGAGACAGAAGCCAACGAA ctg16820 16 SLC21A2
12196 I S TGATTCTCTCCACATTGTGTAAATGGAGCCTTCTTTATGCTTCTTTTCTTA
12196 P A S CGCGCCGAGGTCTGCTACATCTAAAAACCTACY
12196 P G S ATGACGTGGCAGACCTGGTACATCTAAAAACCTAY
12196 T A S GTACGTAGGTTTTTAGATGTACCAGAAGAAAAAGAAGCATAAAGAAAGGCTCCATTTACACAATGTGGAAGAAATCAAC
12196 T G S GTACGTAGGTTTTTAGATGTACCAGGAAGAAAAGAAGCATAAAGAAAGGCTCCATTTACACAATGTGGAAGAAATCAAC





12514 T T S GGTTGCTGCTGCTTATAAAATAGCTCTCTTTCTAGACATTTTGTCTTCAGGTCCACATGTCGGTCAG
12514 IS [CT] ctg15478 1 TGCTGTAGTGCCTGTCATTTCTCGAGGGCAAAAGAAAGGTTGCTGCTGCTTATAAAATAGC[CT]TCTTTGTAGACATTTTGTCTTCAGGTCCACATGTCGGTCAGTCAAAGTTACTAAACACT
12524 I S GCCATGAGAAGGGCTCTTCATACAGCCCTTTC
12524 P A S CGCGCCGAGGTCTGAGAAGTTTGCGTTGY
12524 P C S ATGACGTGGCAGACGCTGAGAAGTTTGCGTY
12524 T A S CATGCAACGCAAACTTCTCAGCAAAAGGGCCTCTATGAAGAGCCCTTCTCATGGCTT
12524 T C S CATGCAACGCAAACTTCTCAGCAAAGGGCCTCTATGAAGAGCCCTTCTCATGGCTT
12524 IS [AC] ctg15665 20 ATGGAATTTTTTGAAAAGCACATGACCTTCTTCCTAATGCCATGCAACGCAAACTTCTCAG[AC]AAAGGGCCTCTATGAAGAGCCCTTCTCATGGCTTTTTAGTCATTCCATCATCTCTGAGAG
12527 I S GGCCTTATTAGAACATTTCAGCTGAGTTTTCAATTCAGGGACATTTGT
12527 P T S CGCGCCGAGGAAAATTTTTTTTTAATCTAAAGTAGAATTCCY
12527 P C S ATGACGTGGCAGACGAAATTTTTTTTTAATCTAAAGTAGAATTCCY
12527 T T S CTTAGGAATTCTACTTTAGATTAAAAAAAAATTTTCAAATGTCCCTGAATTGAAAACTCAGCTGAAATGTTCTAATAAGGCCAC
12527 T C S CTTAGGAATTCTACTTTAGATTAAAAAAAAATTTCCAAATGTCCCTGAATTGAAAACTCAGCTGAAATGTTCTAATAAGGCCAC
12527 IS [TC] ctg12559 6 TCAGTTTTCACATCAGAGTTACCTCACTTAGGAATTCTACTTTAGATTAAAAAAAAATTT[T]CCAAATGTCCCTGAATTGAAAACTCAGCTGAAATGTTCTAATAAGGCCACCCTGTAACCCT
12536 I S CTGGCTAGAAAAAAACAAAACAAAACAAAAAAAGCCTCCTCCTACCC
12536 P A S CGCGCCGAGGTCCCAACTTTAACTATTTAATGGAY
12536 P C S ATGACGTGGCAGACGCCCAACTTTAACTATTTAATGGY
12536 T A S CTGTTCCATTAAATAGTTAAAGTTGGGAGGTAGGAGGAGGCTTTTTTTGTTTTGTTTTGTTTTTTTCTAGCCAGCA
12536 T C S CTGTTCCATTAAATAGTTAAAGTTGGGCGGTAGGAGGAGGCTTTTTTTGTTTTGTTTTGTTTTTTTCTAGCCAGCA
12536 IS [AC] ctg12559 6 ATGCTTGATTGGTCTGGGAATGAATTCCTATGGCTGTTCCATTAAATAGTTAAAGTTGGG[AC]GGTAGGAGGAGGCTTTTTTTGTTTTGTTTTGTTTTTTTCTAGCCAGCATTTTCTGGCCAG
12578 I A CGTGATGCTGTCCGGGTTGCGGGC
12578 P T A CGCGCCGAGGTGACCGACGGGGAT
12578 P G A ATGACGTGGCAGACGACCGACGGGGY
12578 T T A CCACTCCCCGTCGGTCACCCGCAACCCGGACAGCATCACGGA
12578 T G A CCACTCCCCGTCGGTCCCCCGCAACCCGGACAGCATCACGGA
12578 IS [TG] ctg18715 1 CELSR1 AGTTTGAGGTGTCCCACGGCCCCTCCGATGTGGAGTCCGTGATGCTGTCCGGGTTGCGGG[TG]GACCGACGGGGAGTGGCACACCTGCTGATCGAGCTGAAGAATGTTAAGGAGGACAGTGA
12594 I A GAGCCACTCCACCTCCCAGGTCCTCT
12594 P G A ATGACGTGGCAGACGATGTTTGGATCTGCGTY
12594 P A A CGCGCCGAGGAATGTTTGGATCTGCGTY
12594 T G A TGCCACGCAGATCCAAACATCGAGGACCTGGGAGGTGGAGTGGCTCAC
12594 T A A TGCCACGCAGATCCAAACATTGAGGACCTGGGAGGTGGAGTGGCTCAC
12594 IS [GA] ctg13446 1 CCTGCCTTTGCCTCTTCTAATGGGTGACCCGCGTGAGCCACTCCACCTCCCAGGTCTC[GA]ATGTTTGGATCTGCGTGGCACAGGCACTCCTAAGGCTGTGGGAGGATGAGCTGAGCGAGT
12625 I A AGAGGAAGAGTTAATGTTCACAGTTTCTTAAGAAATGTACTGGATTTATA
12625 P C A ATGACGTGGCAGACGAGAAATACATTCAACATATCCAAY
12625 P T A CGCGCCGAGGTAGAAATACATTCAACATATCCAAY
12625 T C A CTCTCTTGGATATGTTGAATGTATTTCTGATAAATCCAGTACATTTCTTAAGAAACTGTGAACATTAACTCTCCTCTTA
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12658 P T A CGCGCCGAGGTGCATATCTTTCCTTCCACY
12658 P C A ATGACGTGGCAGACCGCATATCTTTCCTTCCAY
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12658 T C A GAGGGTGGAAGGAAAGATATGCGACATTTGTGGGAGGAAAAATCCAACATGAGTAAGTTGGGCAG
12658 IS [TC] ctg12723 20 ATTCAACTACCCCTGCTCCTGCCCAACTTACTCATGTTGGATTTTTCCTCCCACAAATGT[TC]GCATATCTTTCCTTCCACCCTCAGGAATGCTGCCAGAAGCCTCCTAGACAGCTTCCGAACC
12684 I S TTGACCCAGAGAACAGTGGAATGGCCACGA
12684 P G S ATGACGTGGCAGACCTGCTGGCCACAGY
12684 P A S CGCGCCGAGGTTGCTGGCCACAGCT
12684 T G S TCATGCTGTGGCCAGCAGCGTGGCCATTCCACTGTTCTCTGGGTCAAGG
12684 T A S TCATGCTGTGGCCAGCAACGTGGCCATTCCACTGTTCTCTGGGTCAAGG
12684 IS [GA] ctg16537 20 GCACACAGGCATCTGCCTATCTACACGGTACCTAAAGAAGAAGTCATGCTGTGGCCAGCA[GA]CGTGGCCATTCCACTGTTCTCTGGGTCAAGGAAGAAATGCTTTGTGGTACTGTAATCTTAA
12696 I A CCTCCCACCTTTGCTCGTGATTGTTCTCTCCTT
12696 P G A ATGACGTGGCAGACGCACACCCTGTGCAY
12696 P A A CGCGCCGAGGACACACCCTGTGCAY
12696 T G A CATGTGCACAGGGTGTGCAGGAGACAACAAATCAGCAGCAAAAGGTGGGAGCAG
12696 T A A CATGTGCACAGGGTGTGTAGGAGACAACAAATCAGCAGCAAAAGGTGGGAGCAG
12696 IS [GA] MULTIPLE MULTIPLE TACAAAGGCTTCCTGACACAGCCGCTCCTCCCACCTTTTGCTCCTGATTGTTCTCTCCT[GA]CACACCCTGTGCACATGGCTACAGCAGCTCTTAACTTCTCTCCAAACCTGCATATAGTCT
12715 I A GGAGTACAGGGCGCCAAGACCAGACTT
12715 P G A ATGACGTGGCAGACGCTTAGCATATTTGGAGCAY
12715 P A A CGCGCCGAGGACTTAGCATATTTGGAGCACY
12715 T G A AGTAGTGCTCCAAATATGCTAAGCAGTCTGGTCTTGGCGCCCTCTACTCCCG
12715 T A A AGTAGTGCTCCAAATATGCTAAGTAGTCTGGTCTTGGCGCCCTCTACTCCCG
12715 IS [GA] ctg18466 16 TGGATGCGTGGCGTTTTTTCATACAGCAAGGCCCGGGAGTAGAGGGCGCCAAGACAGACT[GA]CTTAGCATATTTGGAGCACTACTGCCATCGTGAGGATGTCGTTTAACAAACCTACGCC
12719 I S CATGTGACAGAAAATTGCAGAGCTATATGTTTAACAAGAGGCAAATAGTTAT
12719 P C S ATGACGTGGCAGACGATAAATGTTGGTACAACCTTGY
12719 P T S CGCGCCGAGGAATAAATGTTGGTACAACCTTGY
12719 T C S CTTTCAAGGTTGTACCAACATTTATCTAACTATTTGCCTCTTGTTAAACATATAGGCTCTGCAATTTTCTGTCACATGCA
12719 T T S CTTTCAAGGTTGTACCAACATTTATTTAACTATTTGCCTCTTGTTAAACATATAGGCTCTGCAATTTTCTGTCACATGCA
12719 IS [CT] ctg17341 14 TATACCATATGAATATGAATGGCTTTTAGTAATTTCTTTCAAGGTTGTACCAACATTTAT[CT]TAACTATTTGCCTCTTGTTAAACATATAGGCTCTGCAATTTTCTGTCACATGCAATACTG
12761 I S AGACCAACGAGGACCAAAGTGATCAGCTT
12761 P G S CGCGCCGAGGCGTCTGGAGAACTGAGGY
12761 P C S ATGACGTGGCAGACGGTCTGGAGAACTGAGGY
12761 T G S CCAACCTCAGTTCTCCAGACGAGCTGATCACTTTGGTCCTCGTTGGTCTTA
12761 T C S CCAACCTCAGTTCTCCAGACGAGCTGATCACTTTGGTCCTCGTTGGTCTTA
12761 IS [GC] ctg13655 10 TACTTTACTCTCCCTCCCTTCATCCCCATAGCCCCAGGACACCAACCTCAGTTCTCCAGACT[GC]AGCTGATCACTTTGGTCCTCGTTGGTCTTATAGATTTCCATGAAAGGGTCAGACTTGCTG
12797 I A ACTTCGAAGCAGCAACAATGGCATCATCATCATTCACA
12797 P C A ATGACGTGGCAGACGAGATTTTGACTGTTAAATTCGTY
12797 P T A CGCGCCGAGGTAGATTTTGACTGTTAAATTCGTTY
12797 T C A AAGCAACGAATTTAACAGTCAAAATCTGGTGAATGATGATGATGCCATTGTTGCTGCTTCGAAGTGC



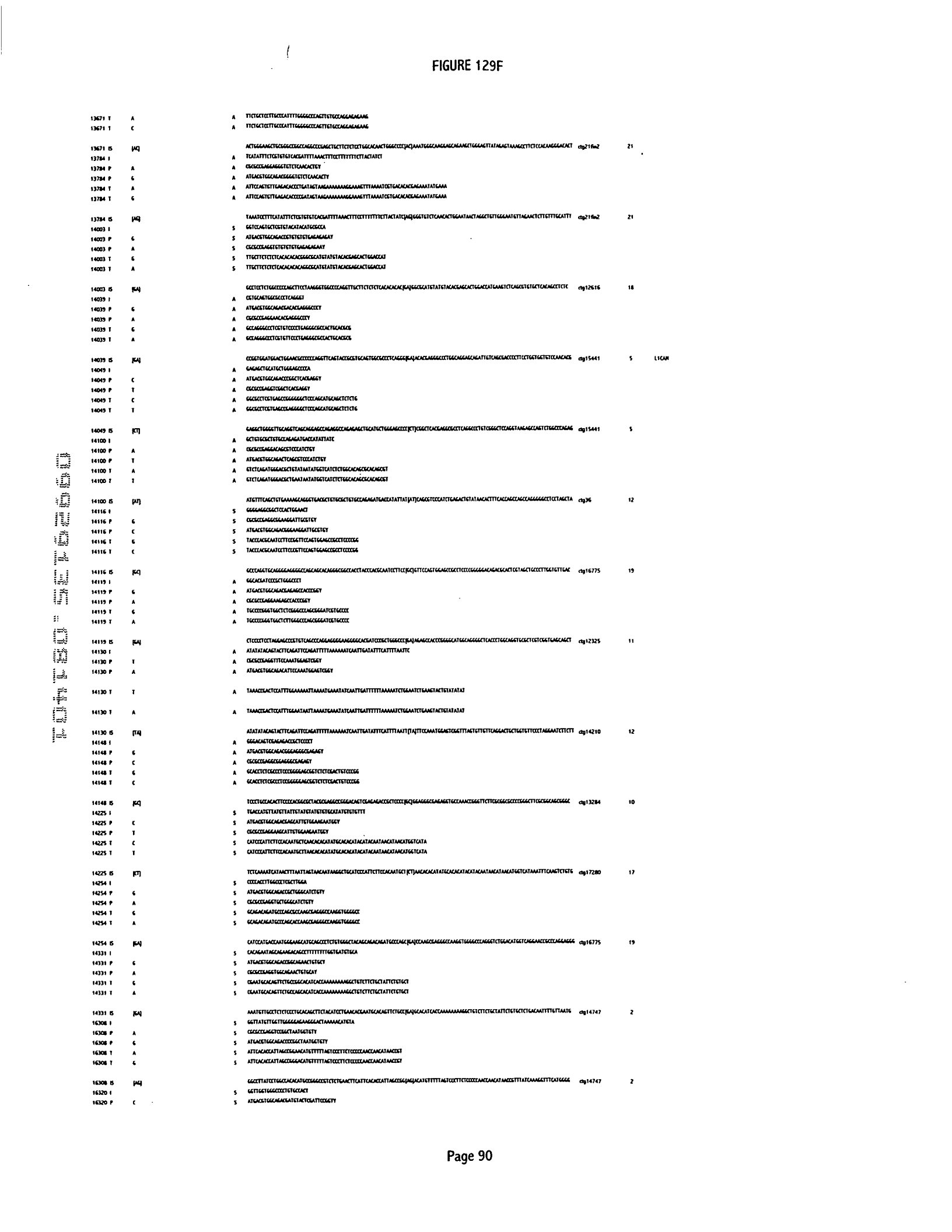
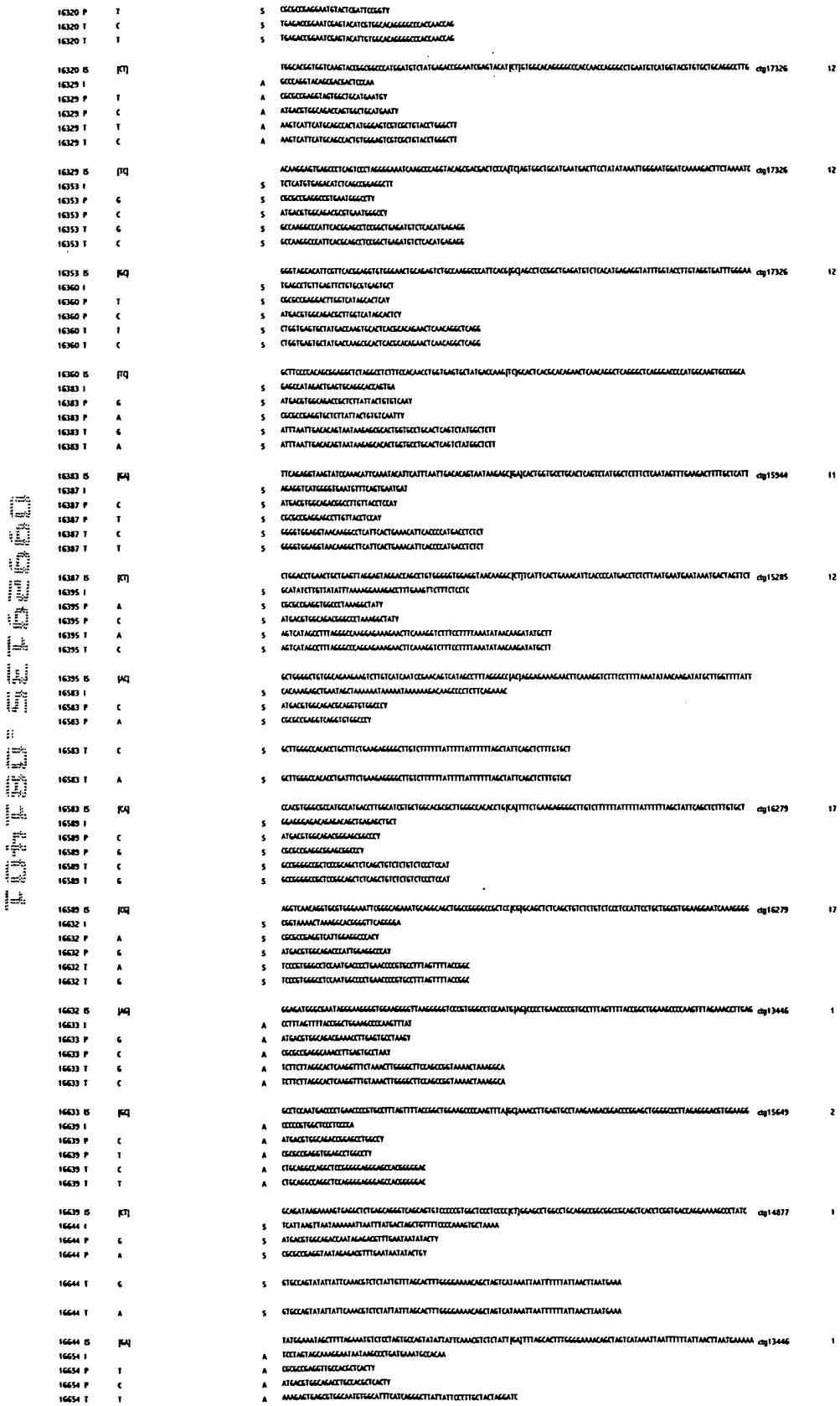


FIGURE 129F



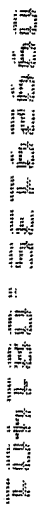


FIGURE 129F

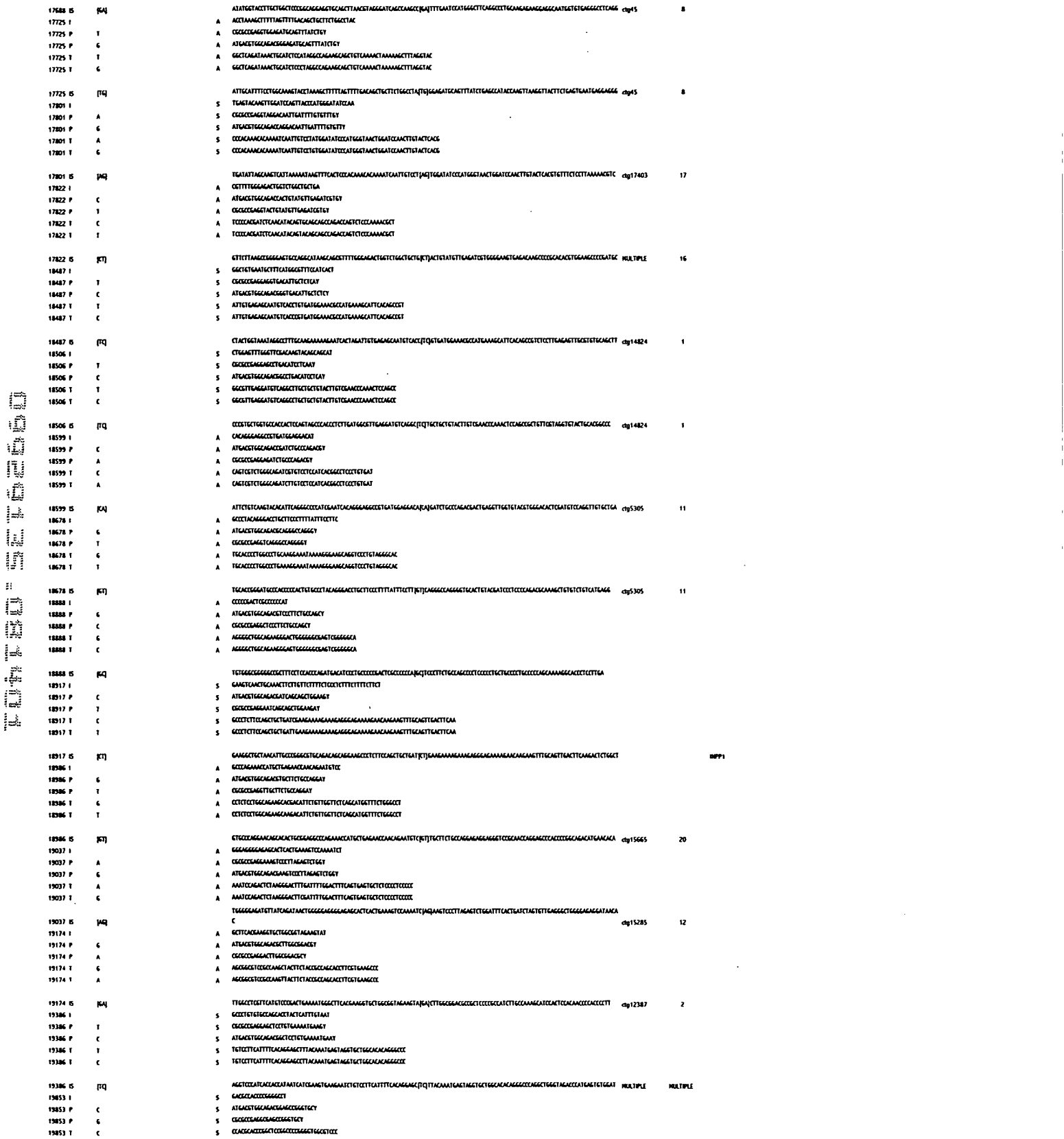


FIGURE 129F

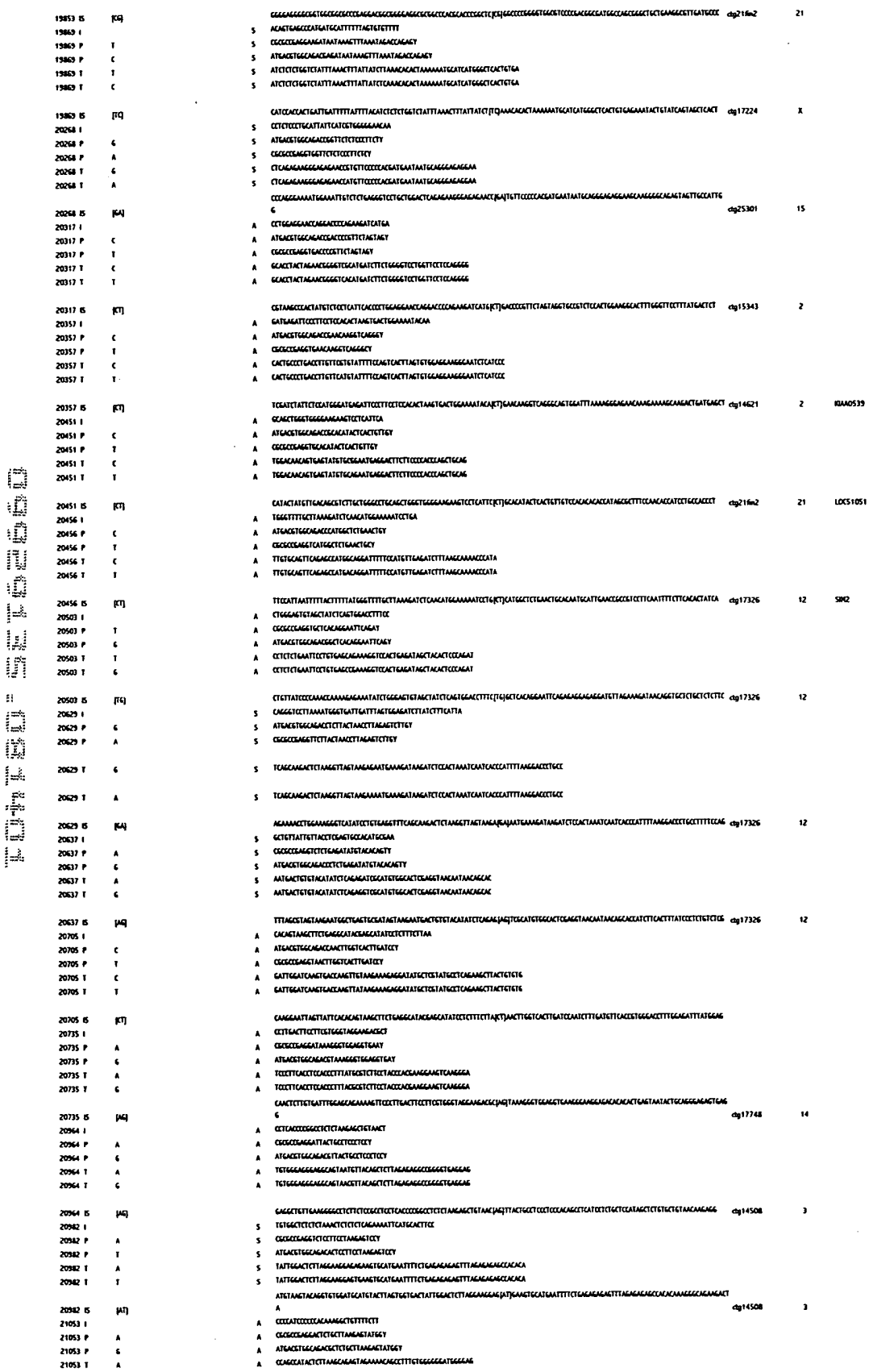
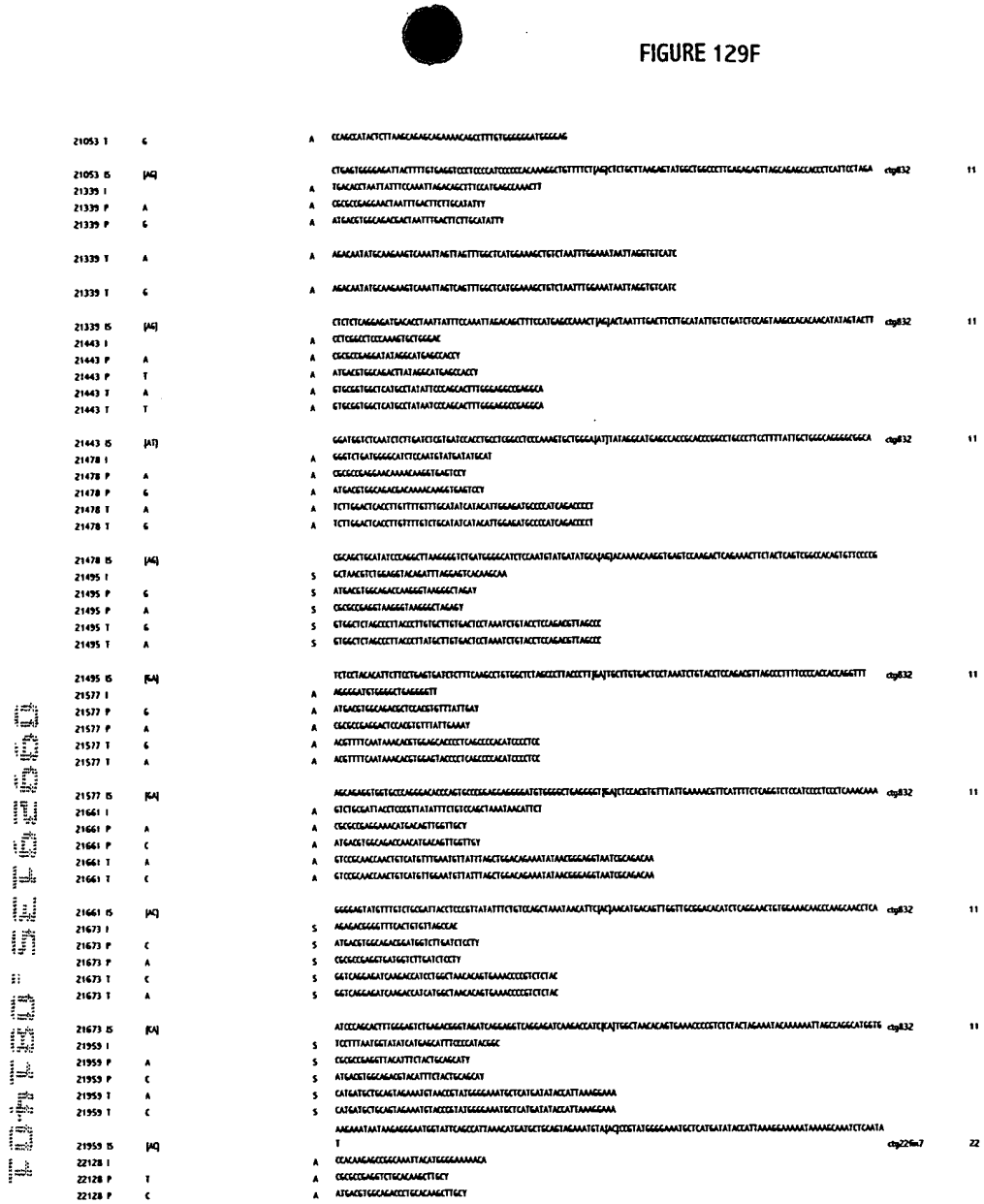


FIGURE 129F



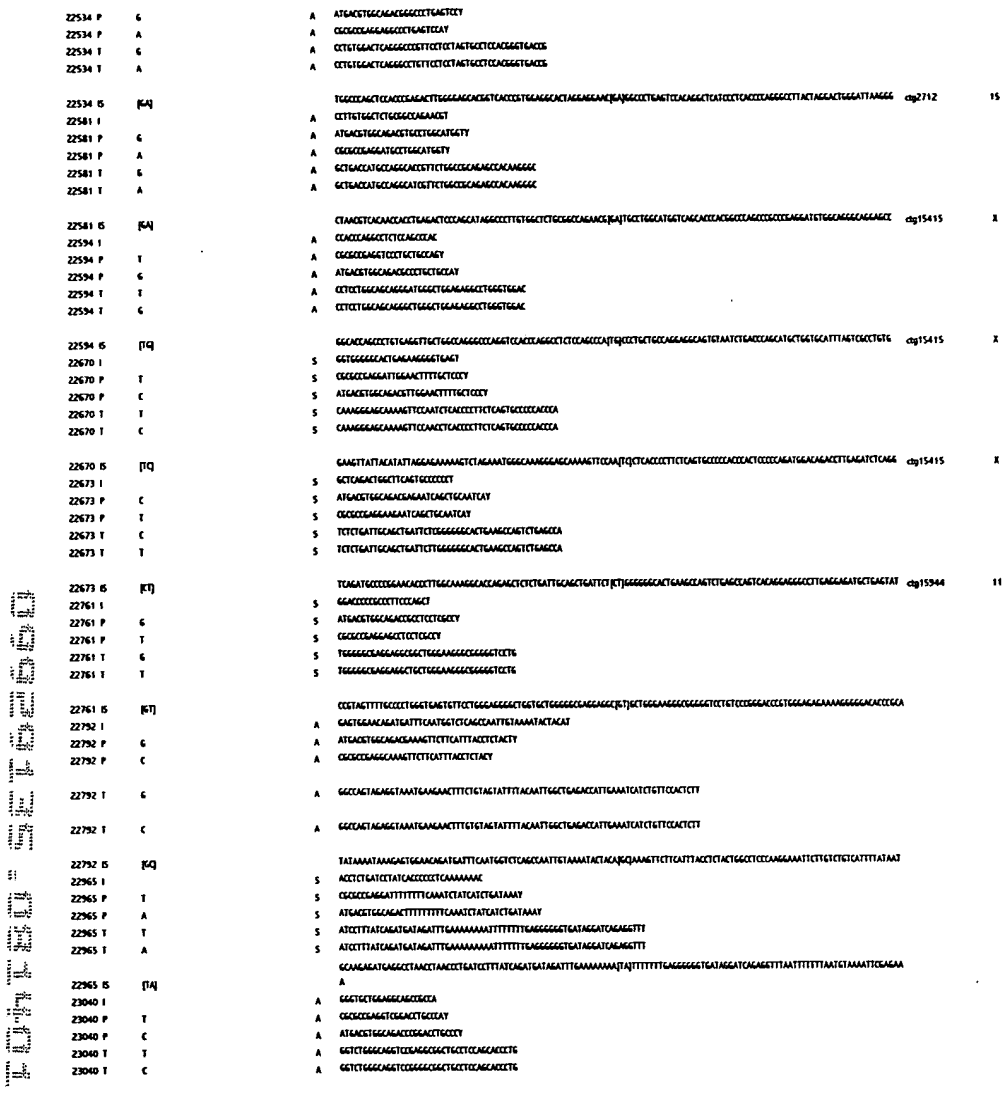
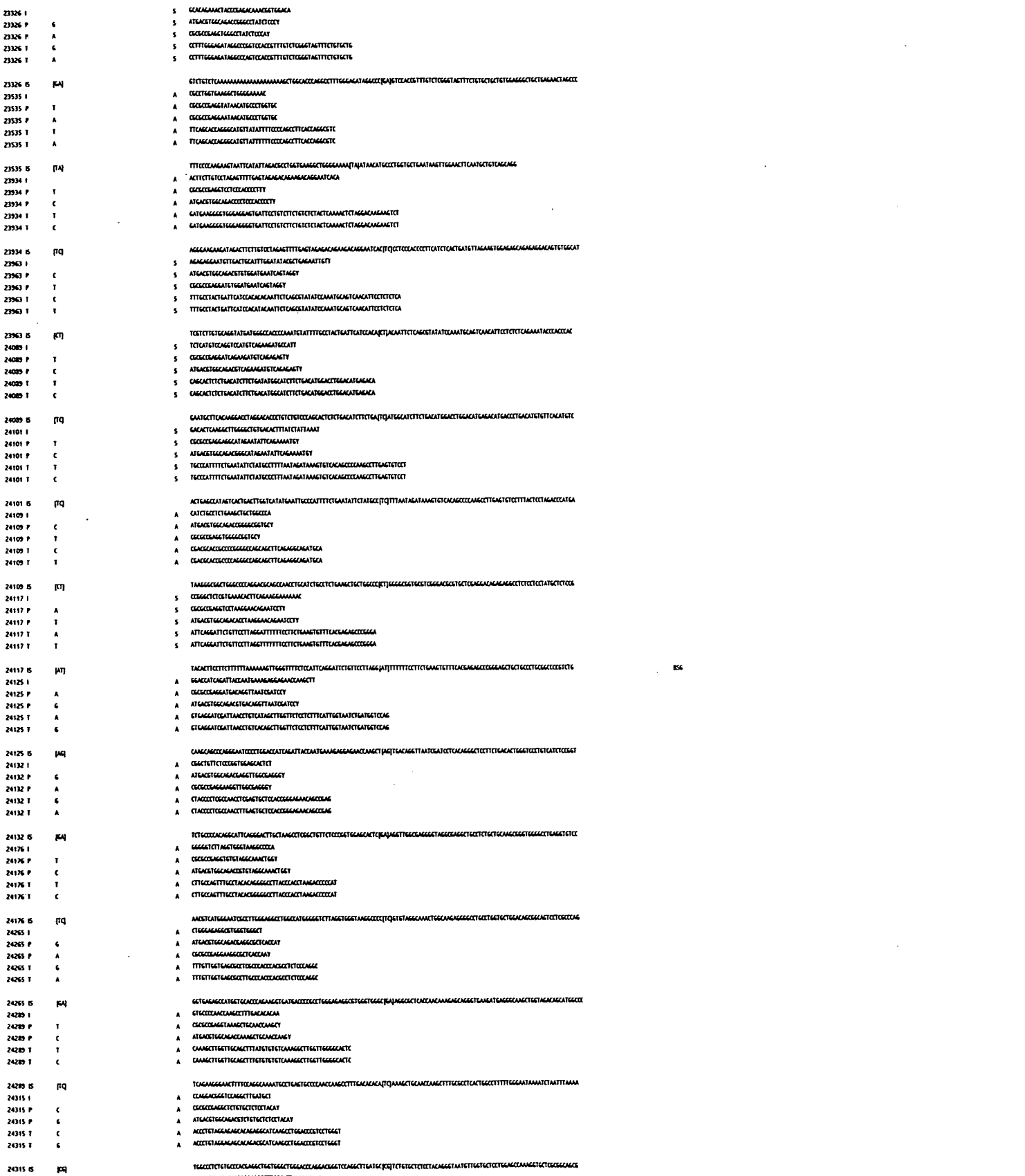
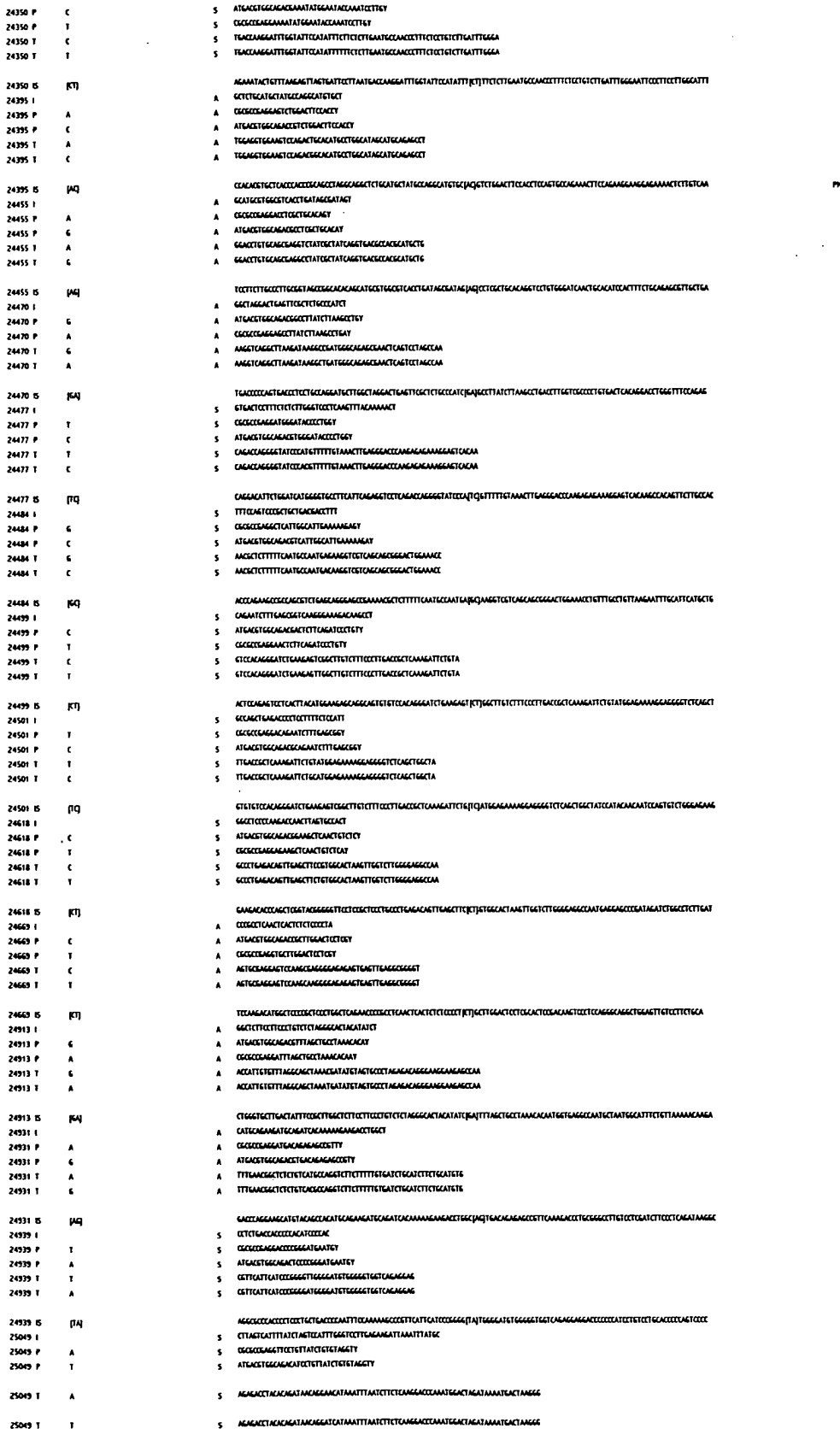
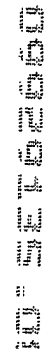


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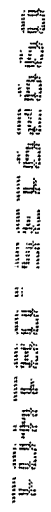


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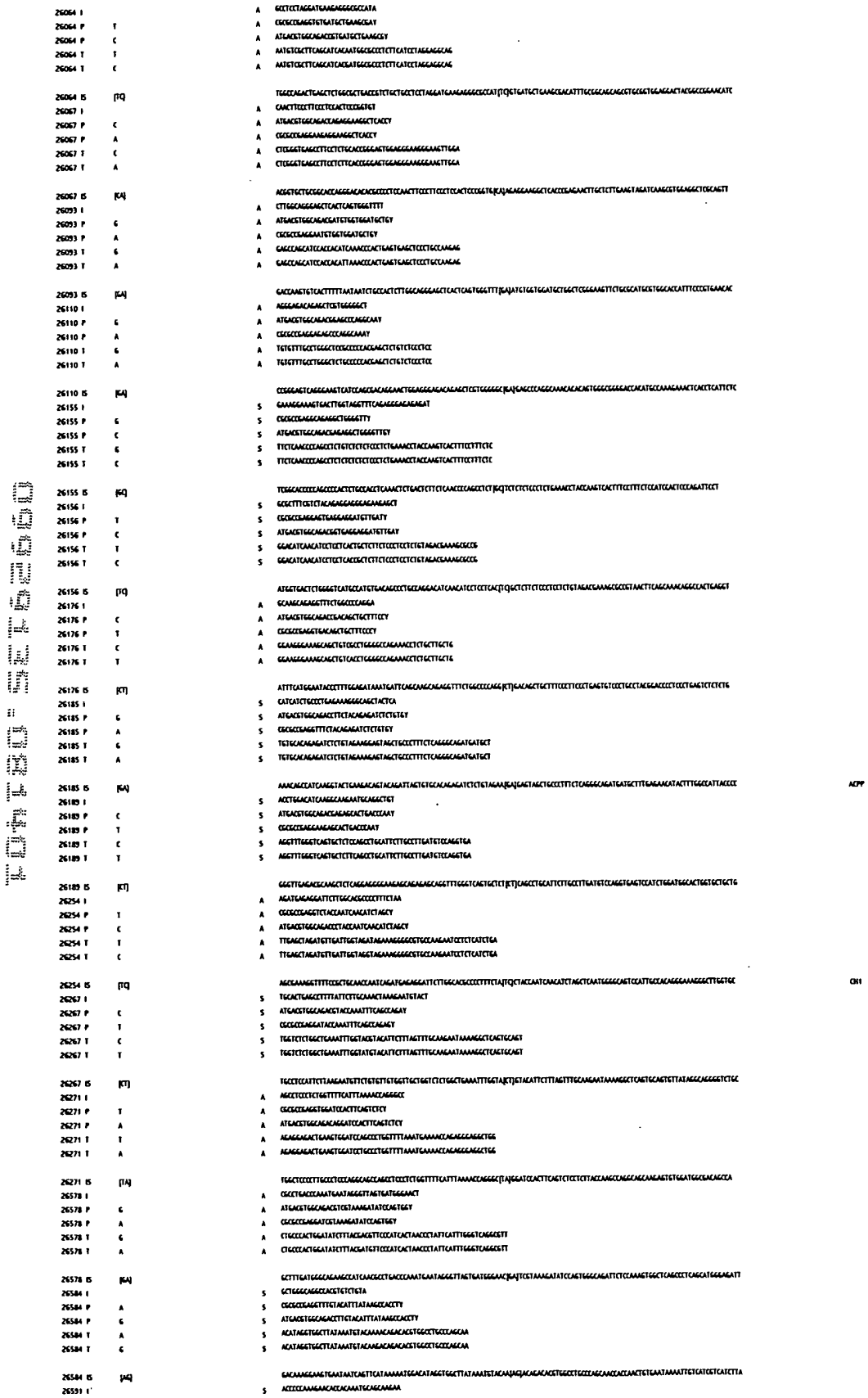


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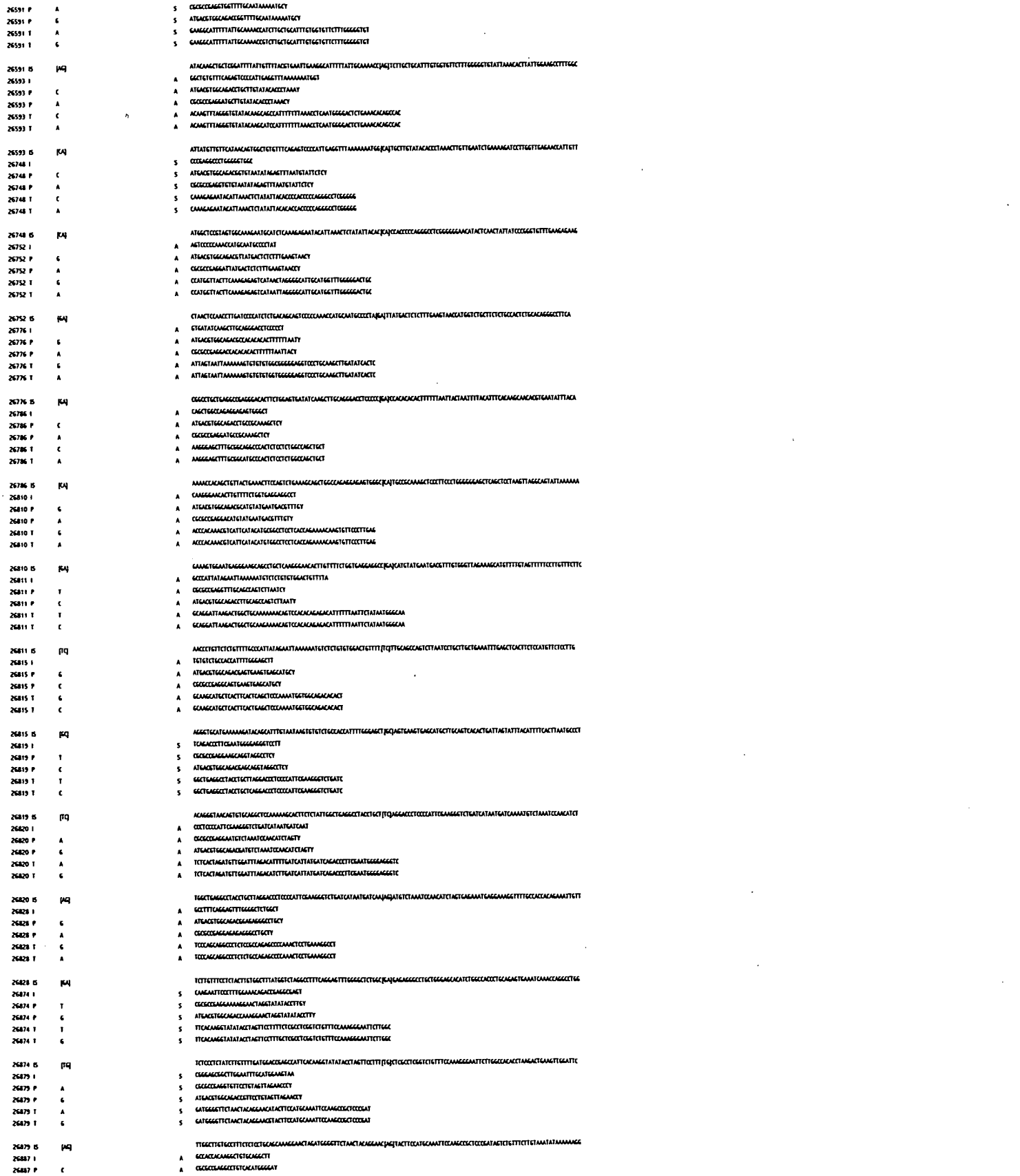
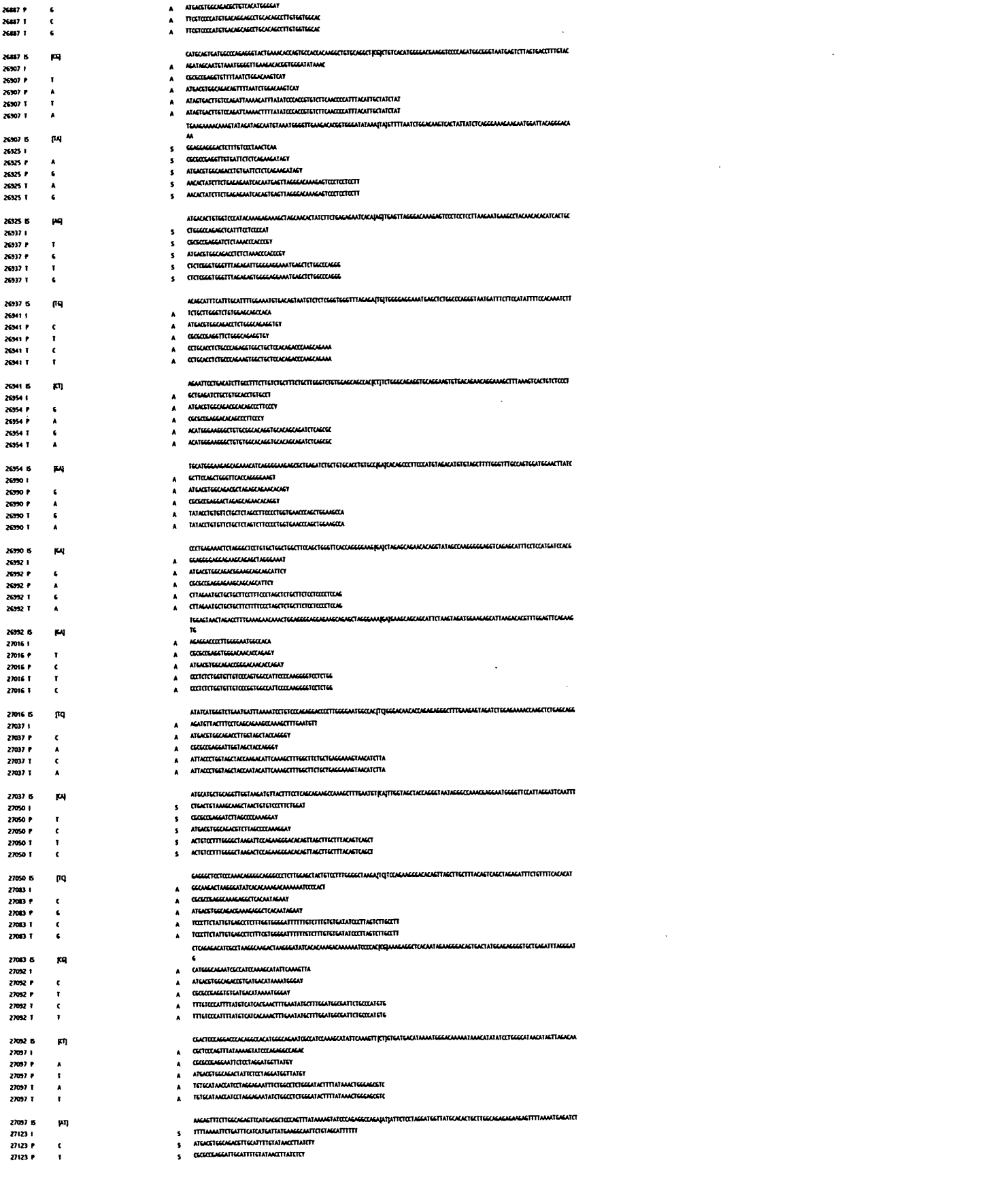
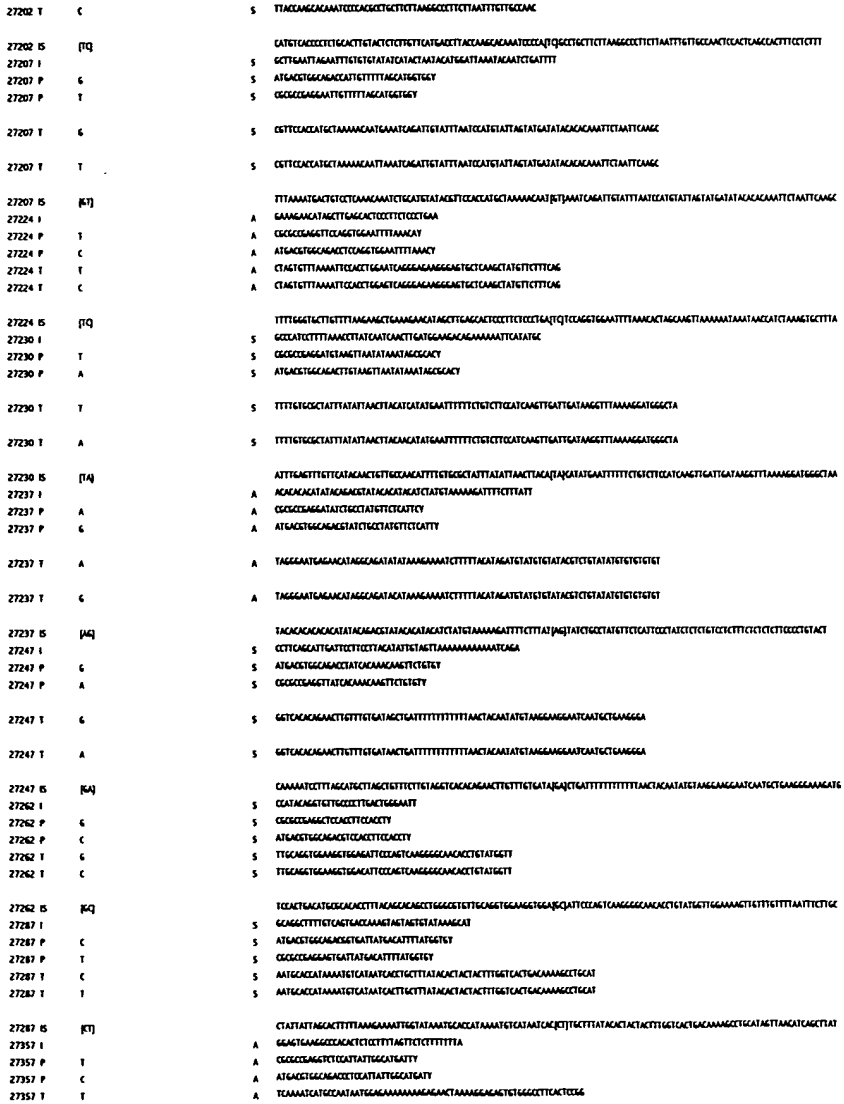


FIGURE 129F





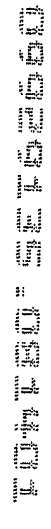
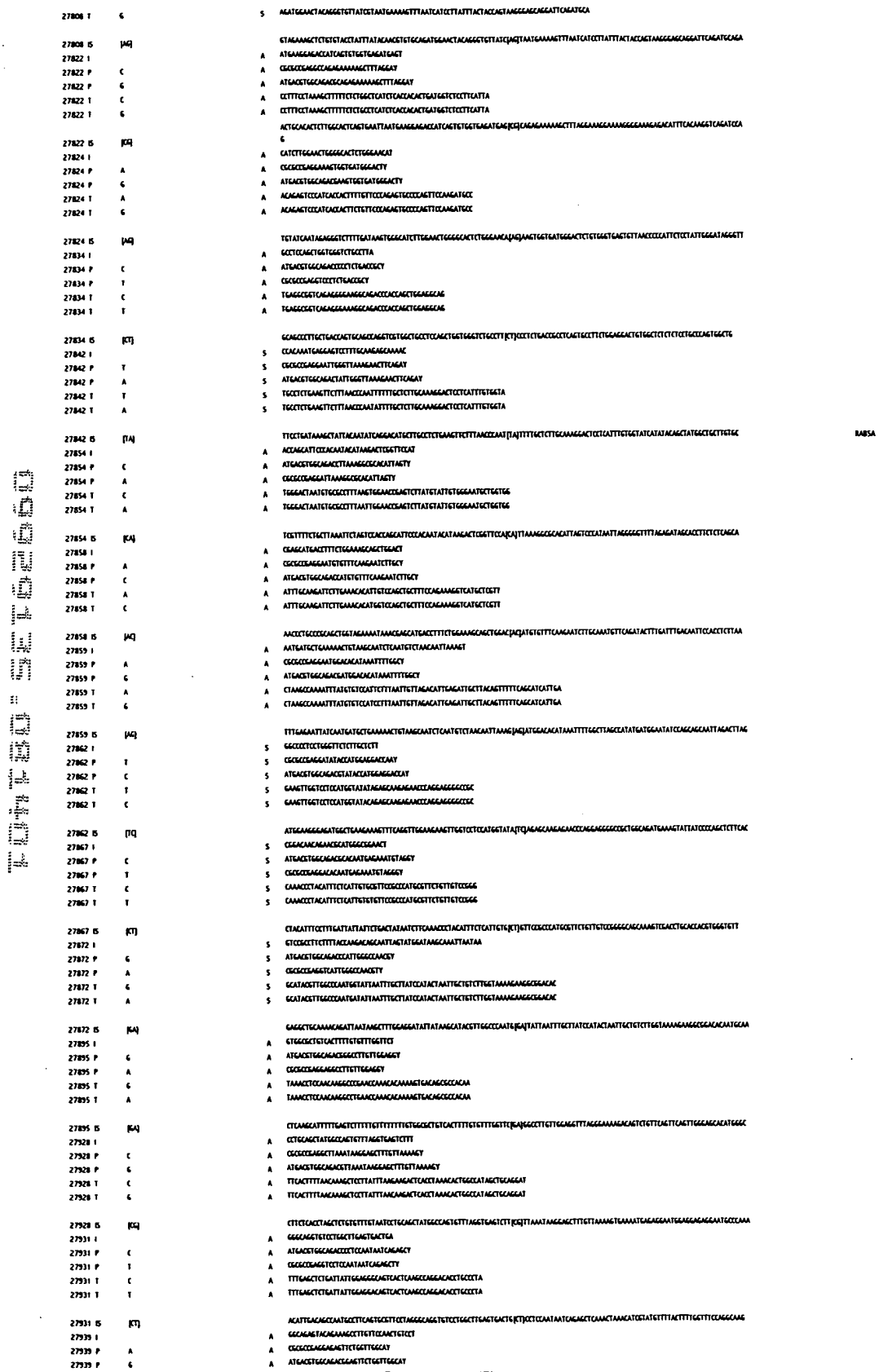
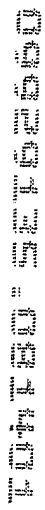


FIGURE 129F





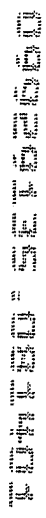


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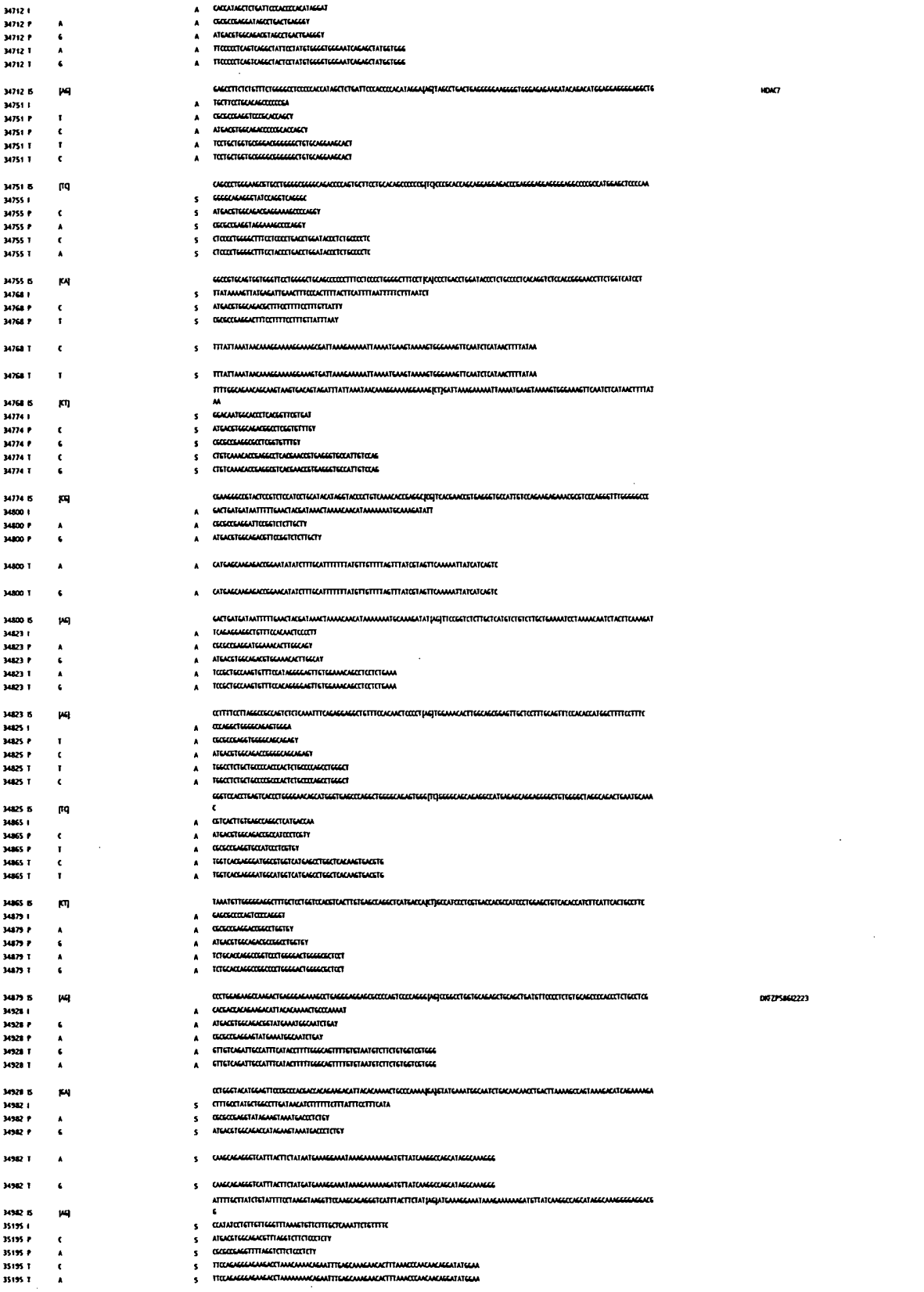
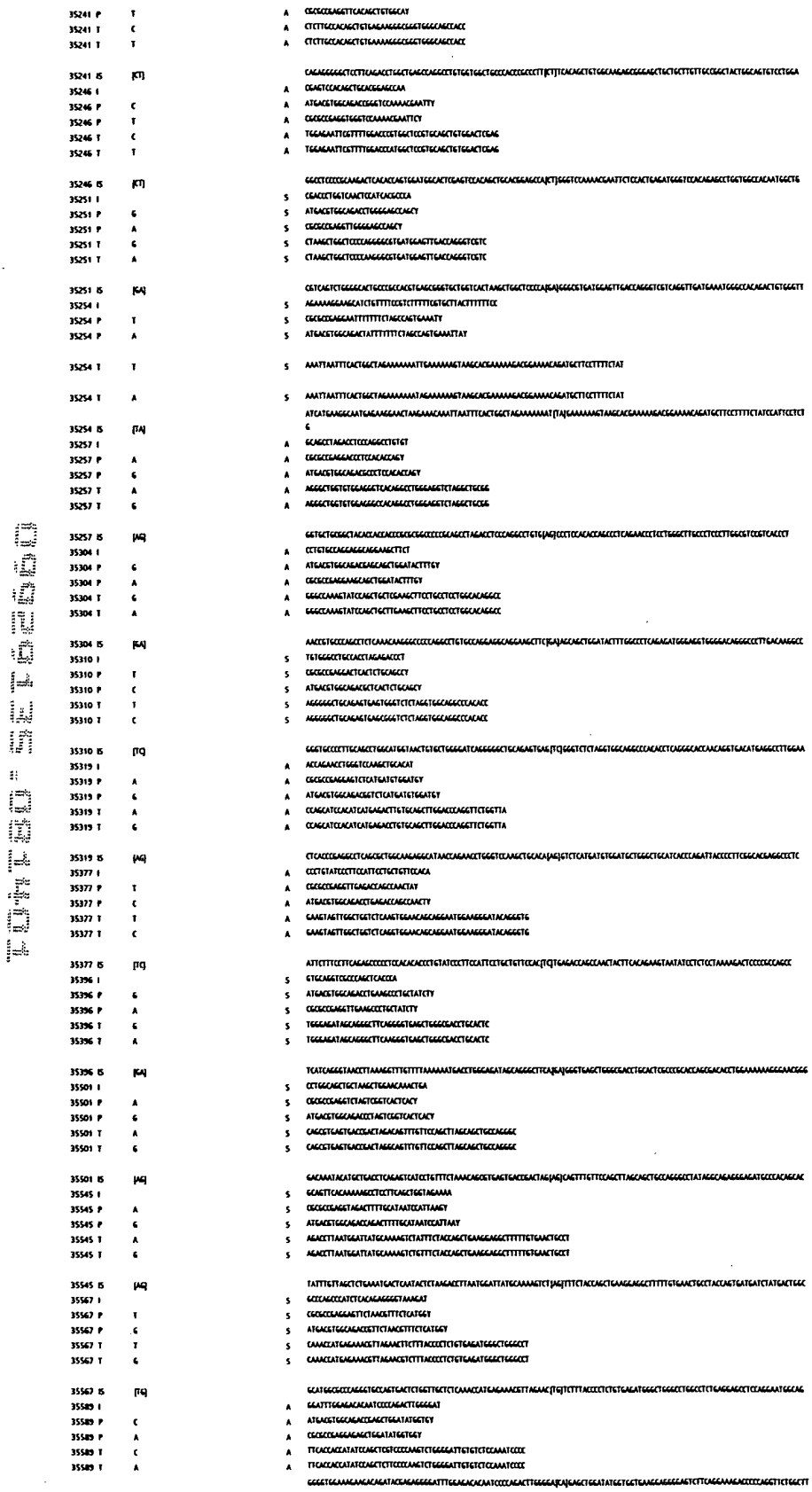
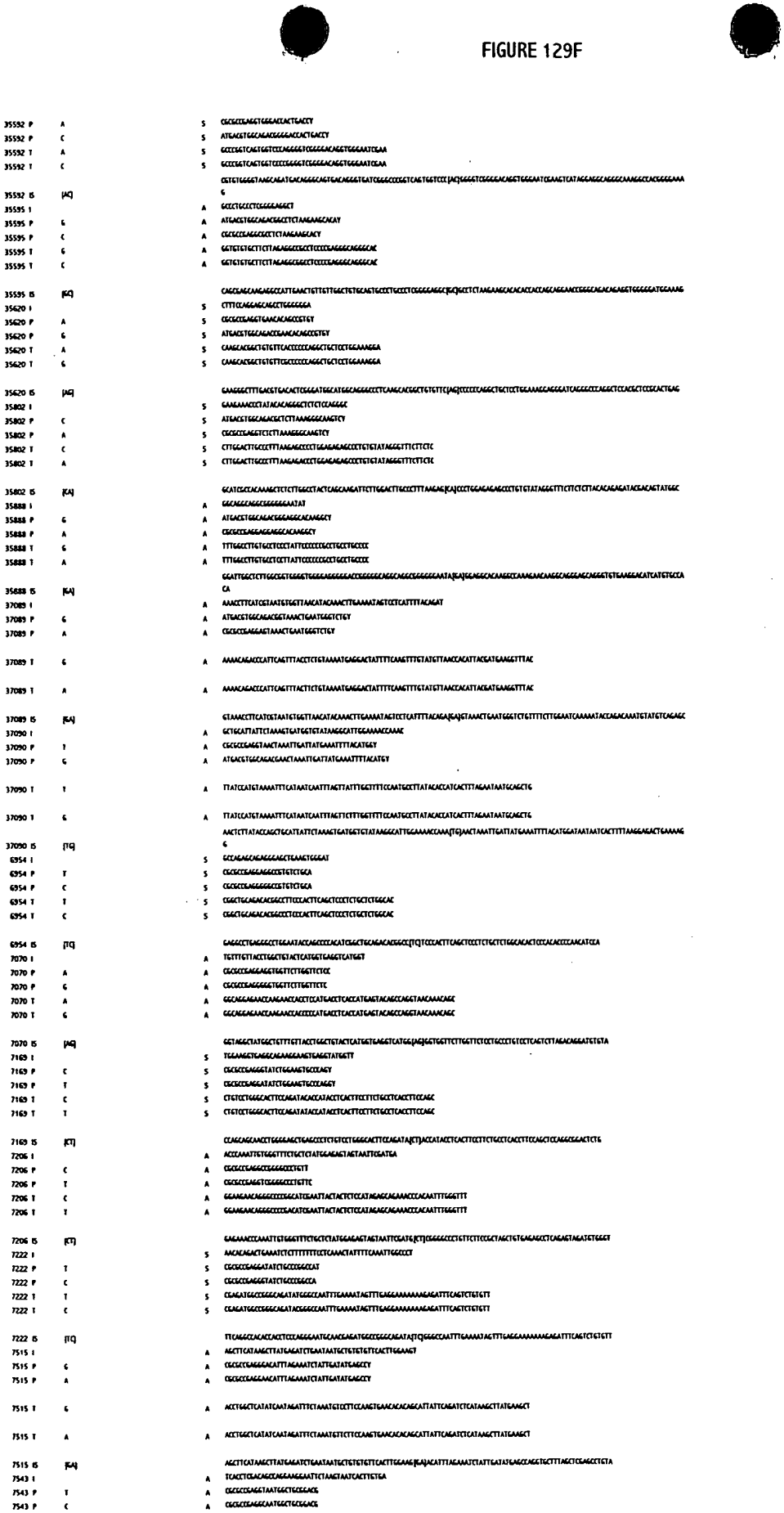
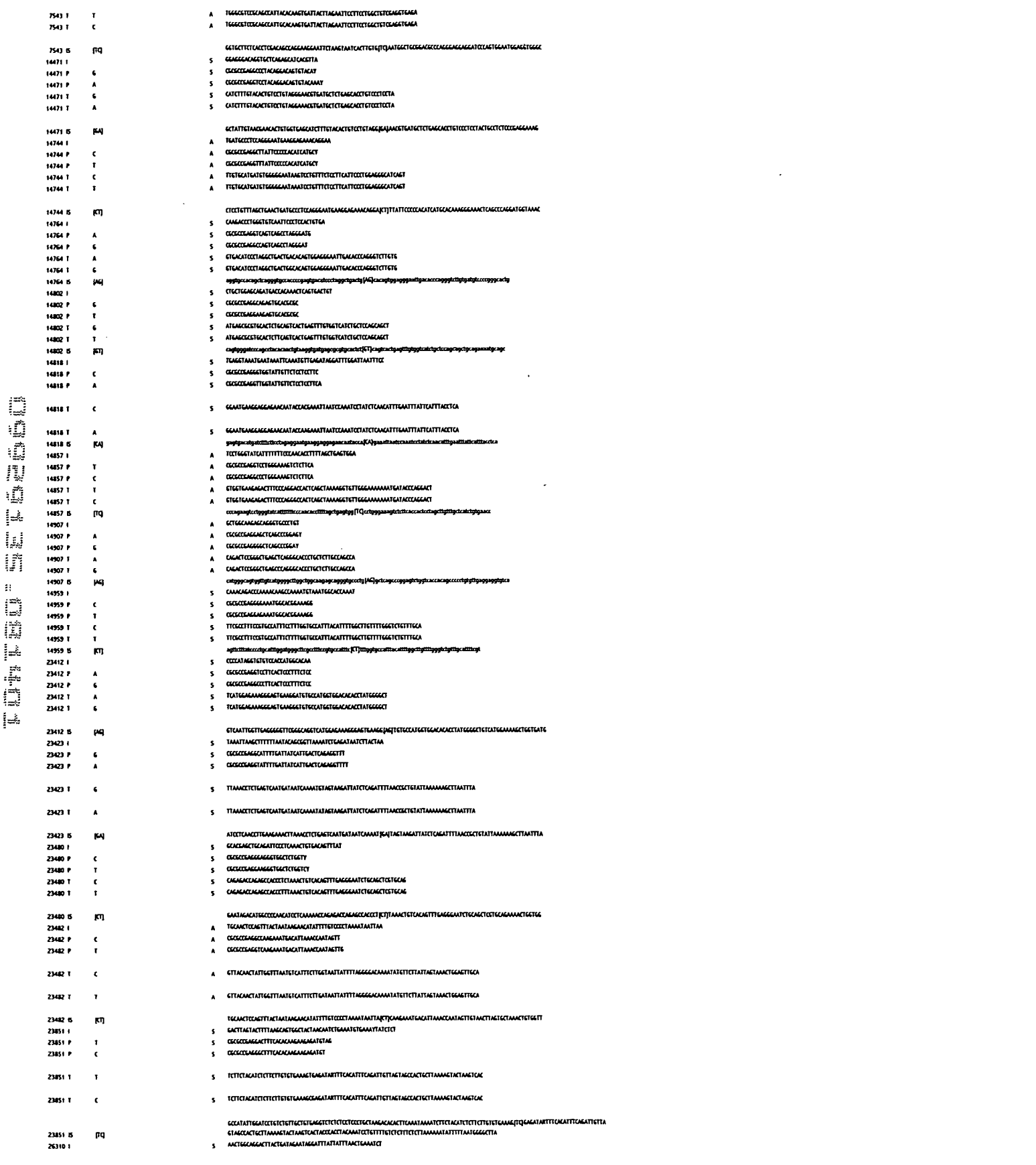


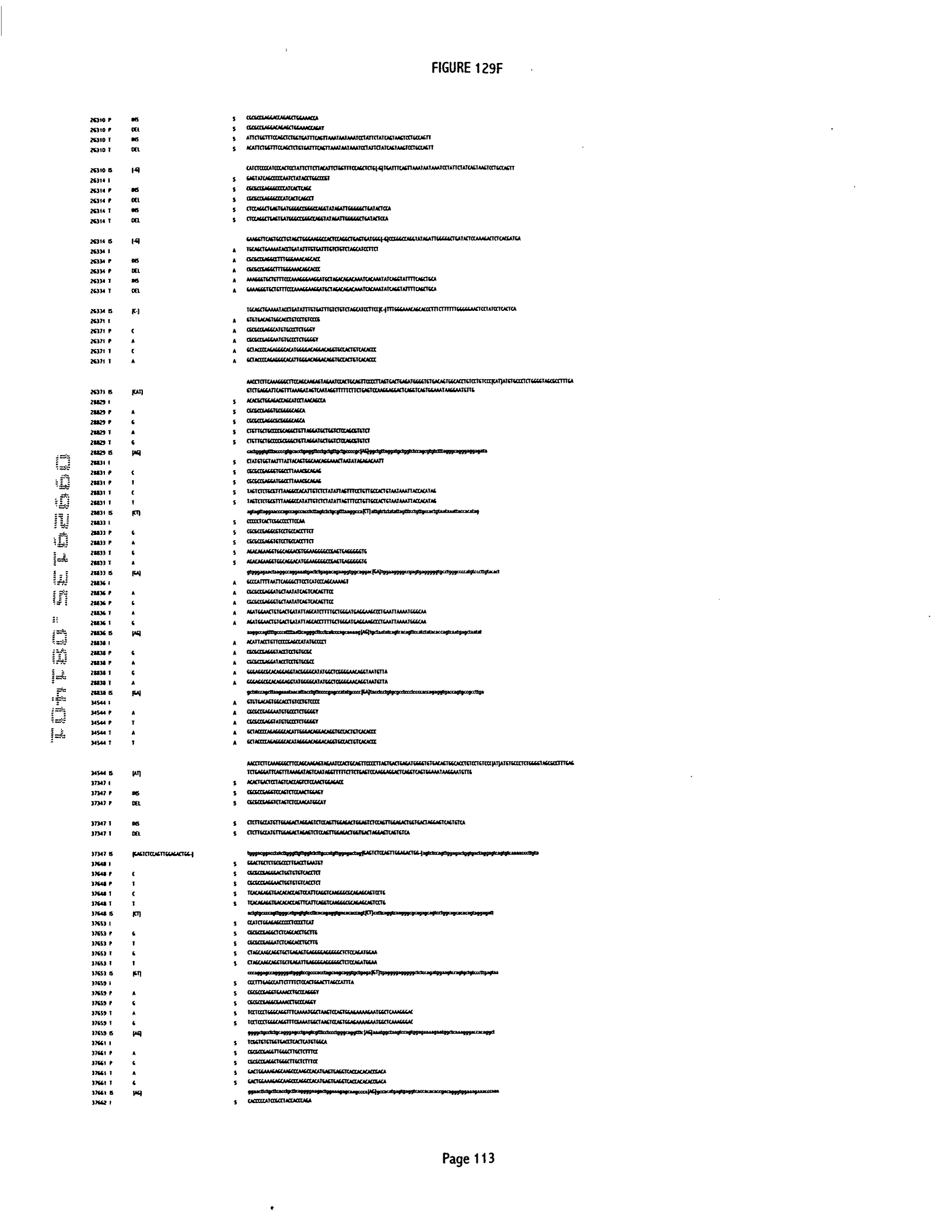
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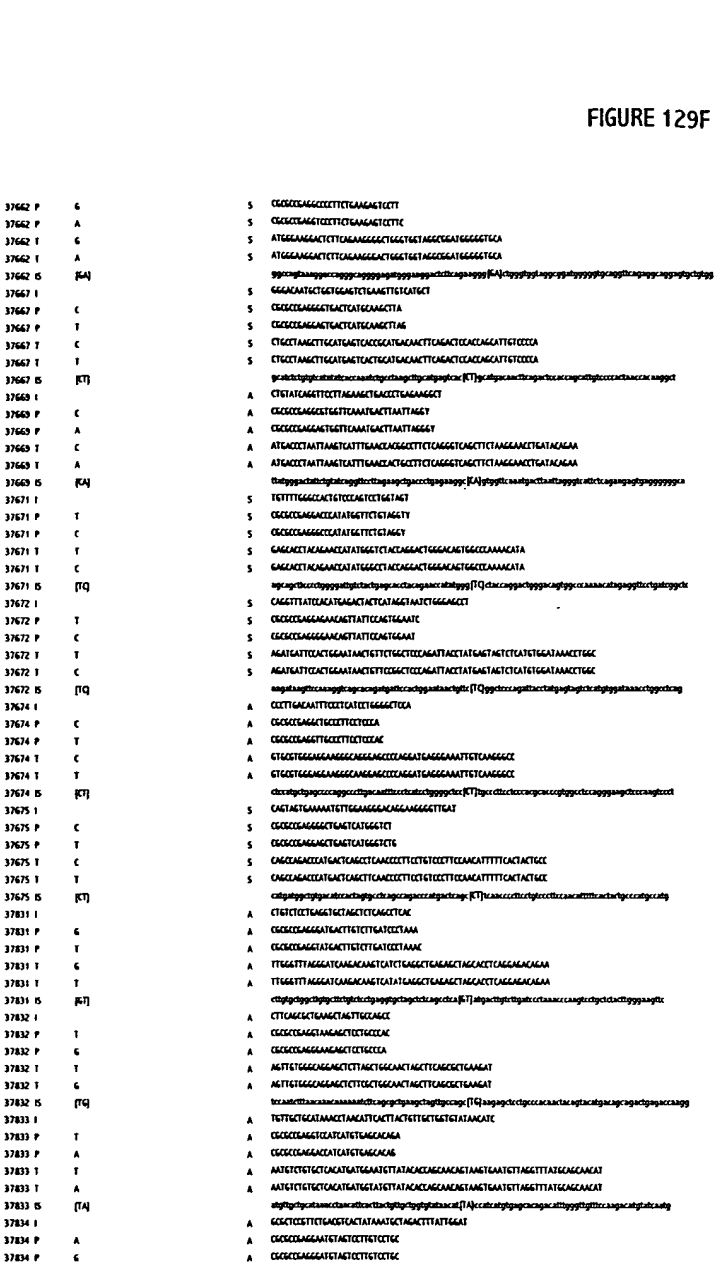




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FIGURE 129F

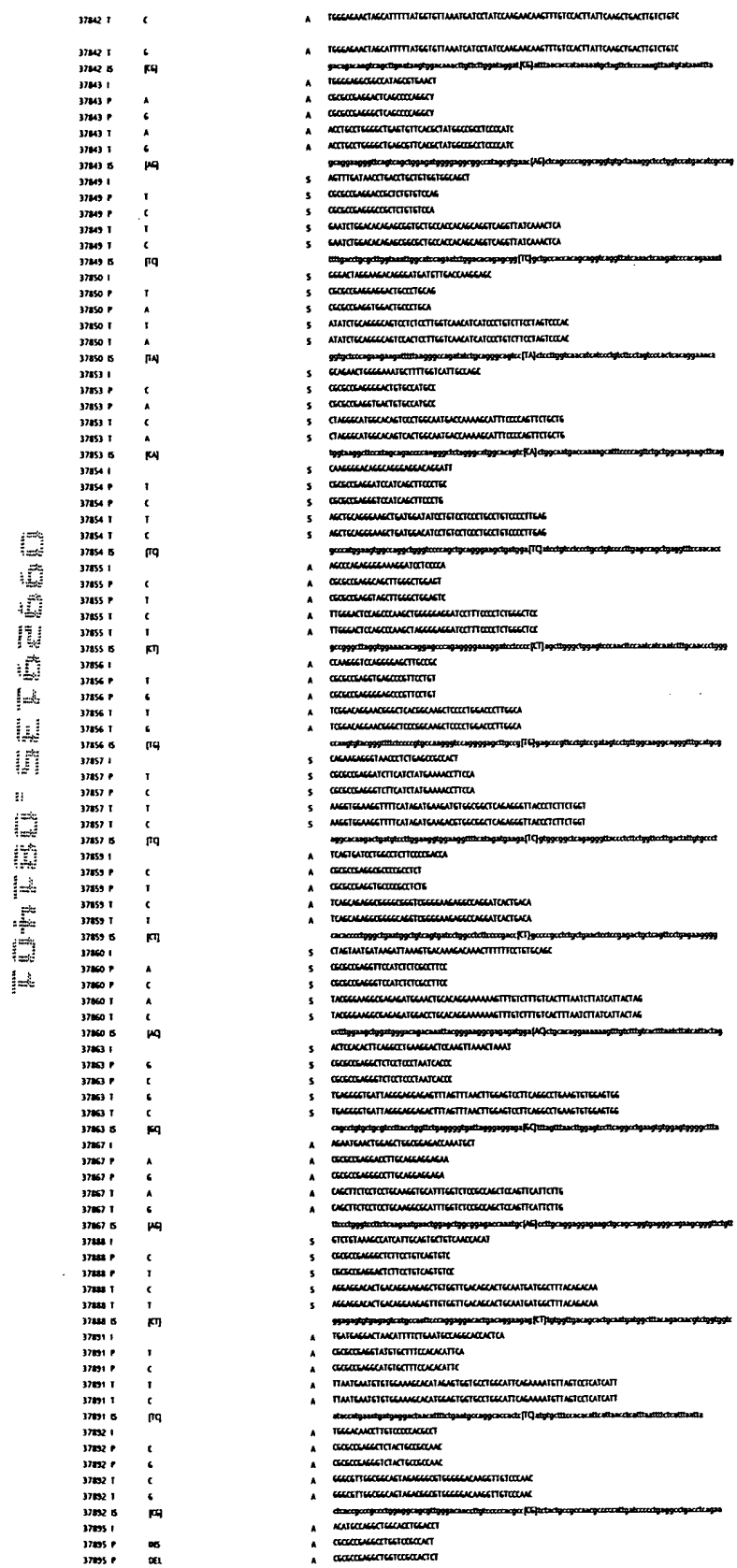
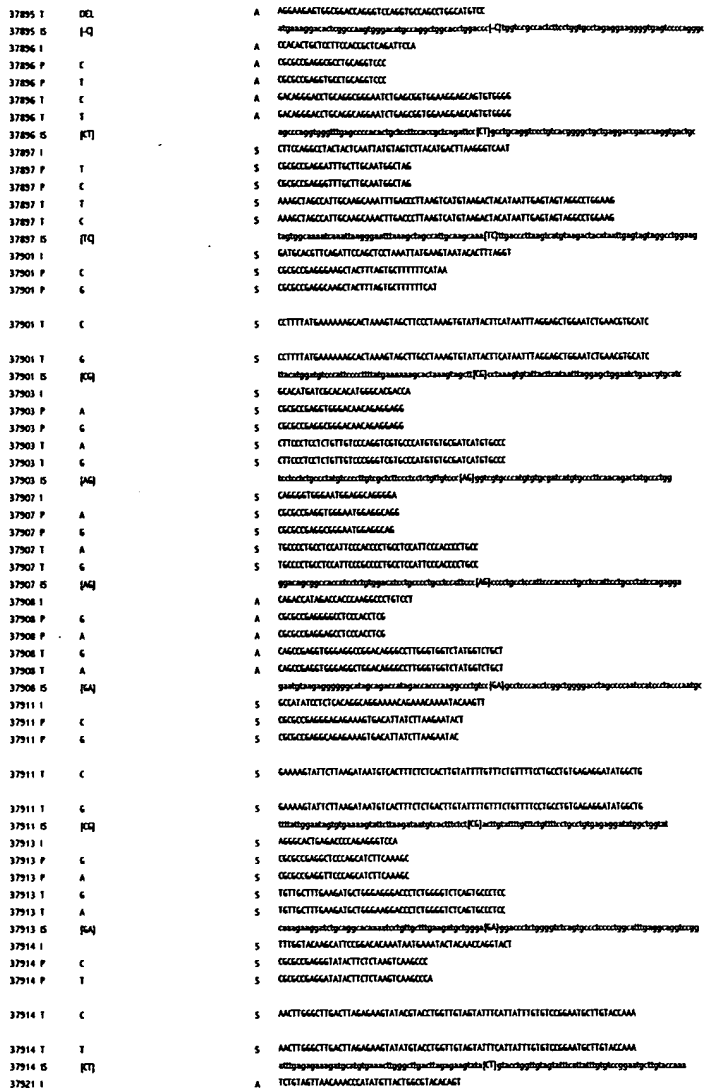
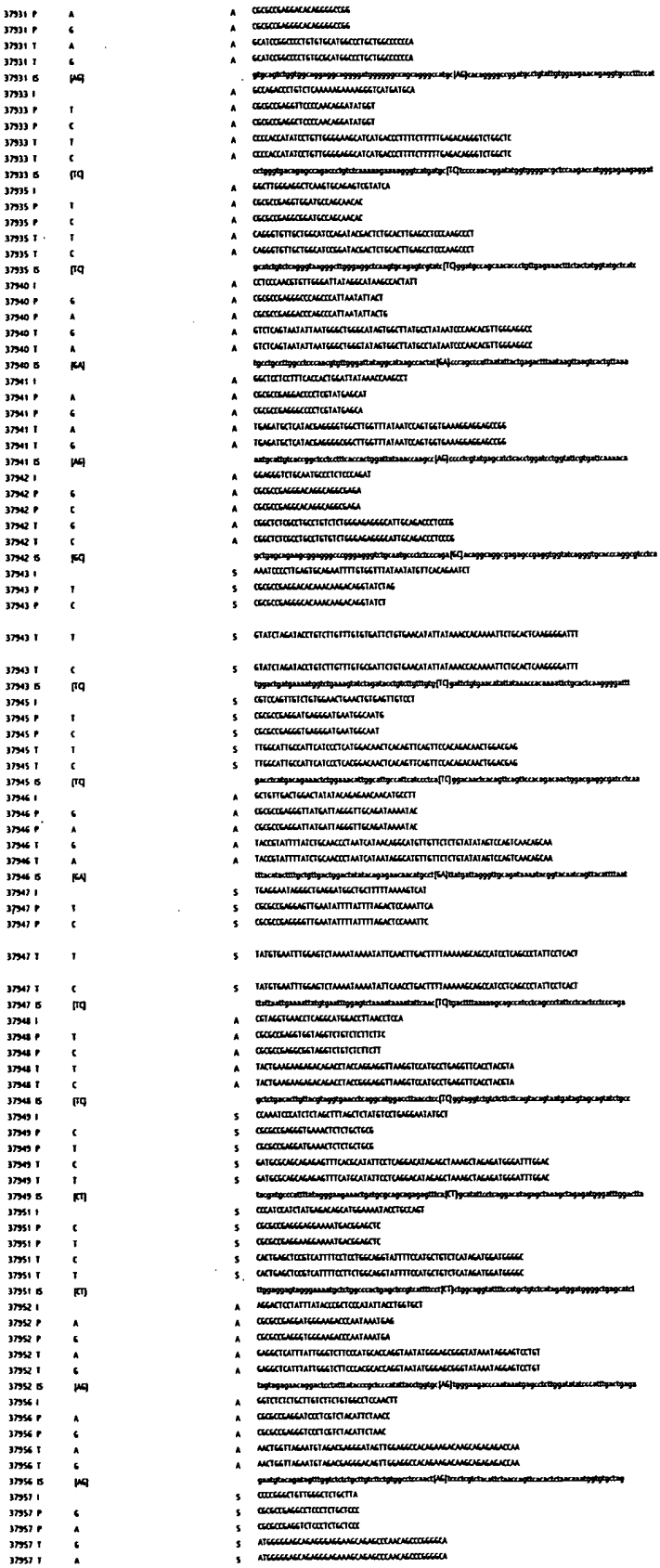
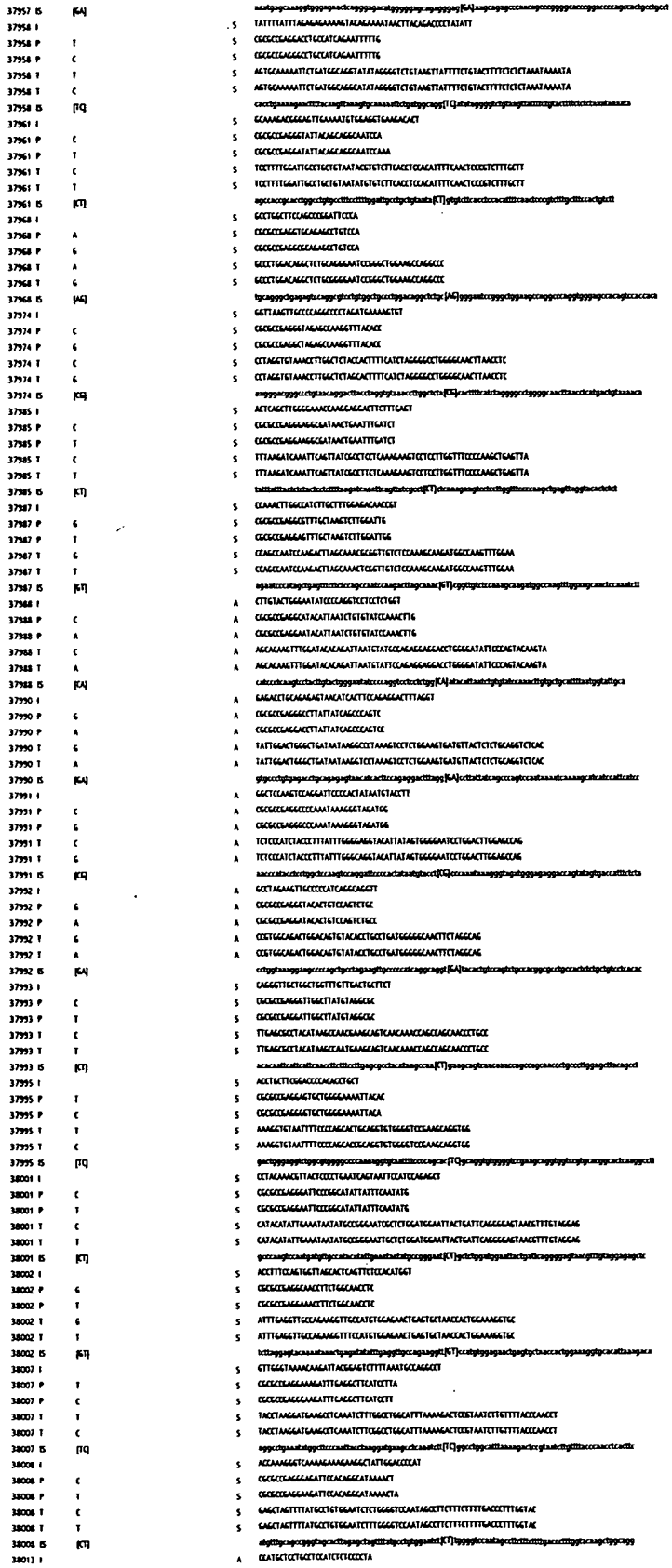
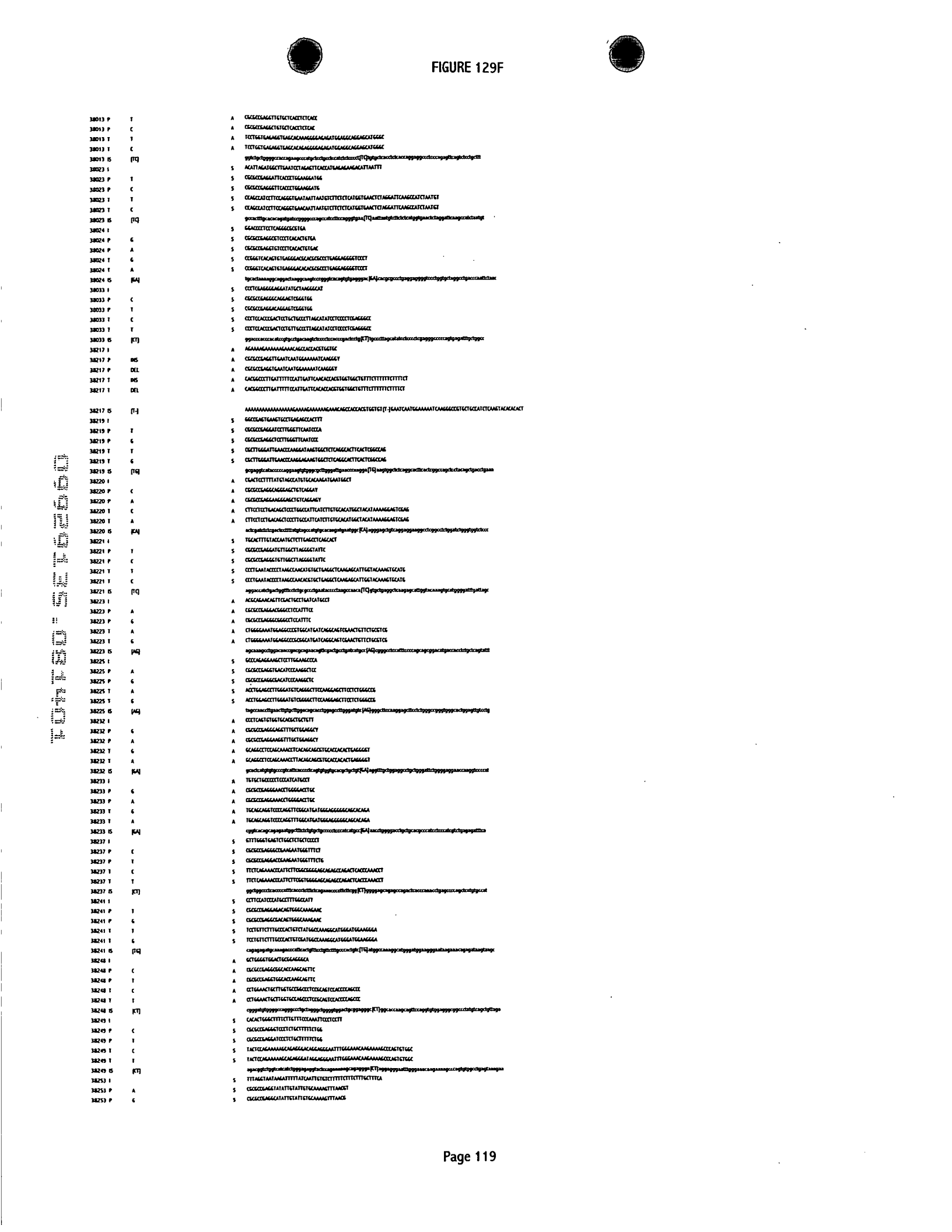


FIGURE 129F





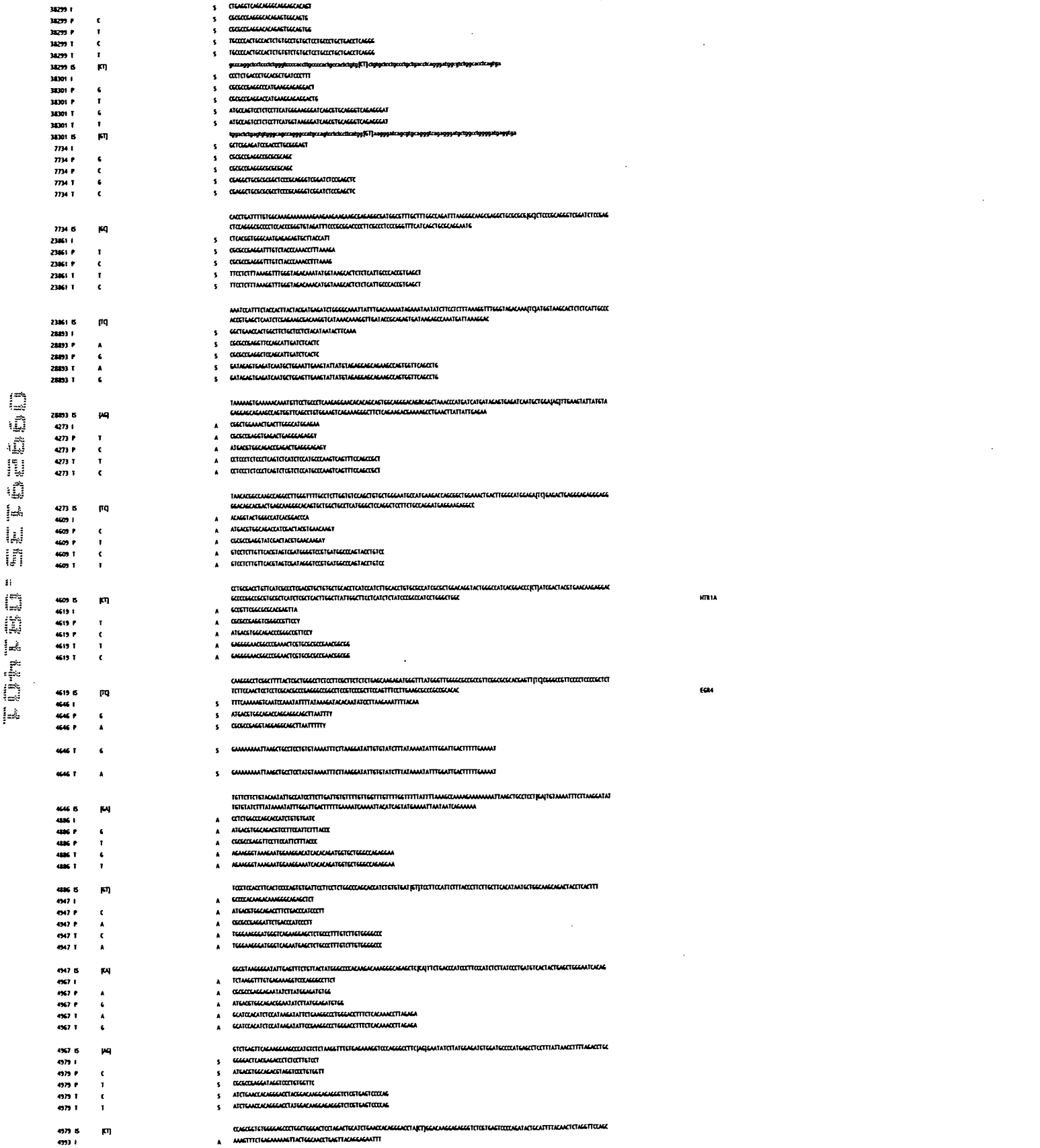






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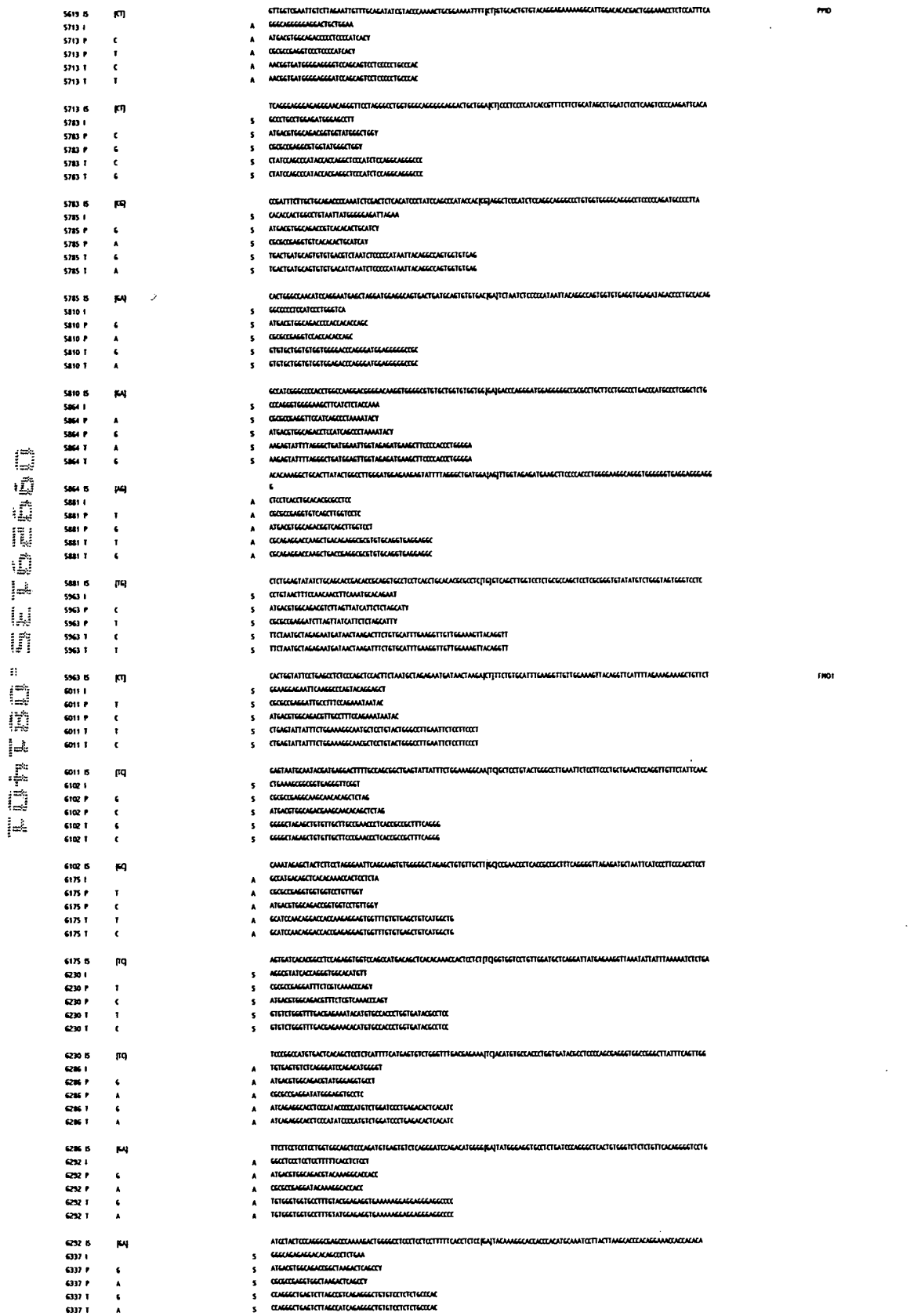
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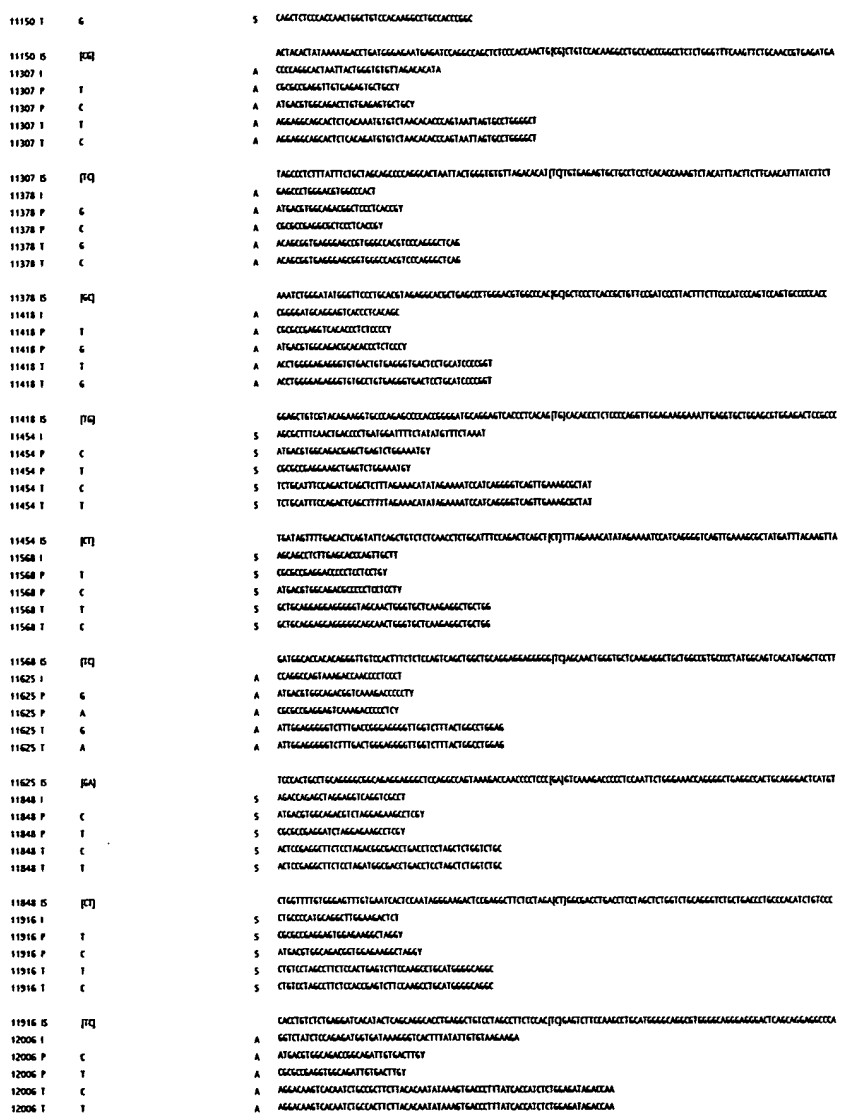


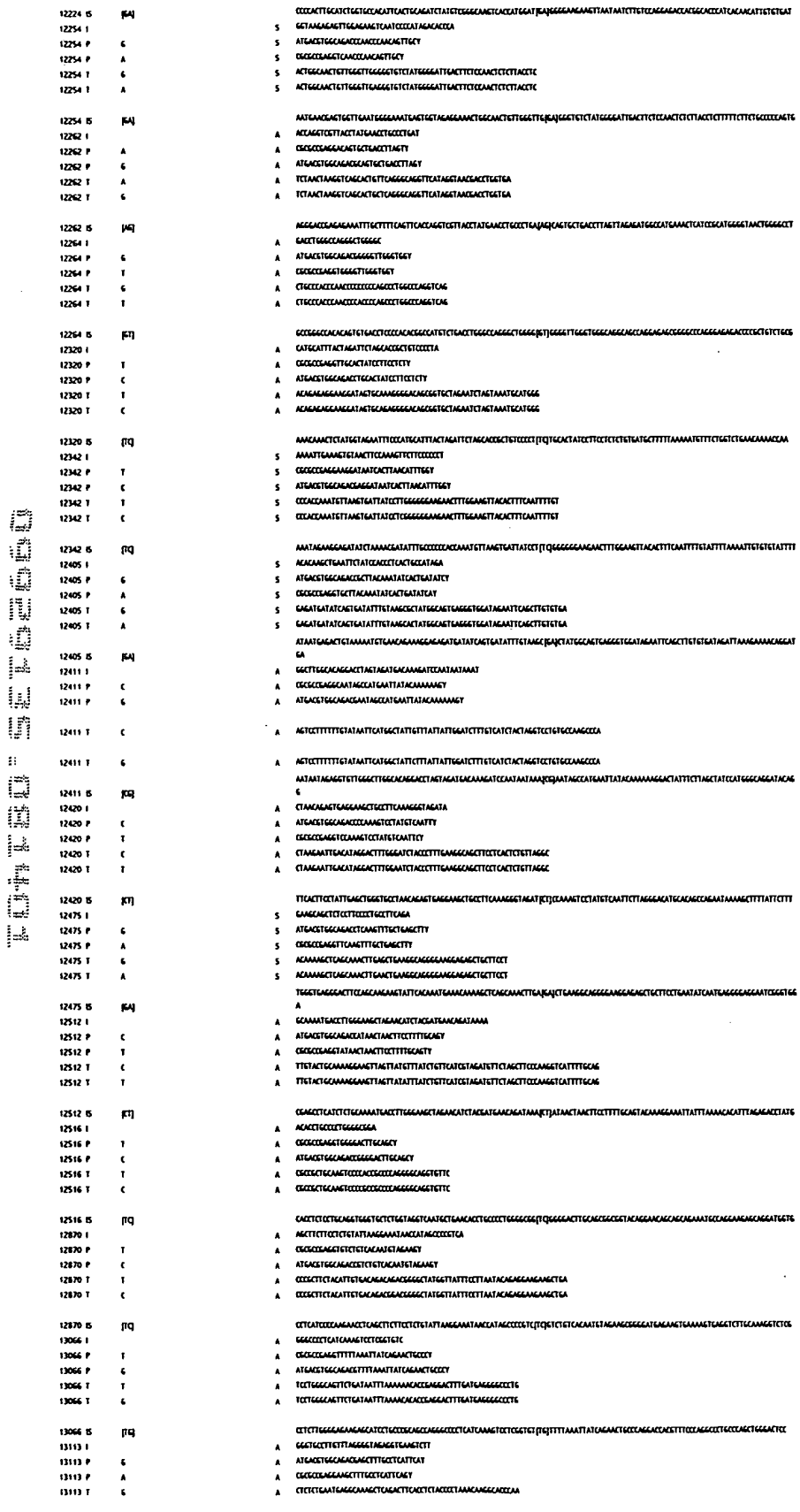
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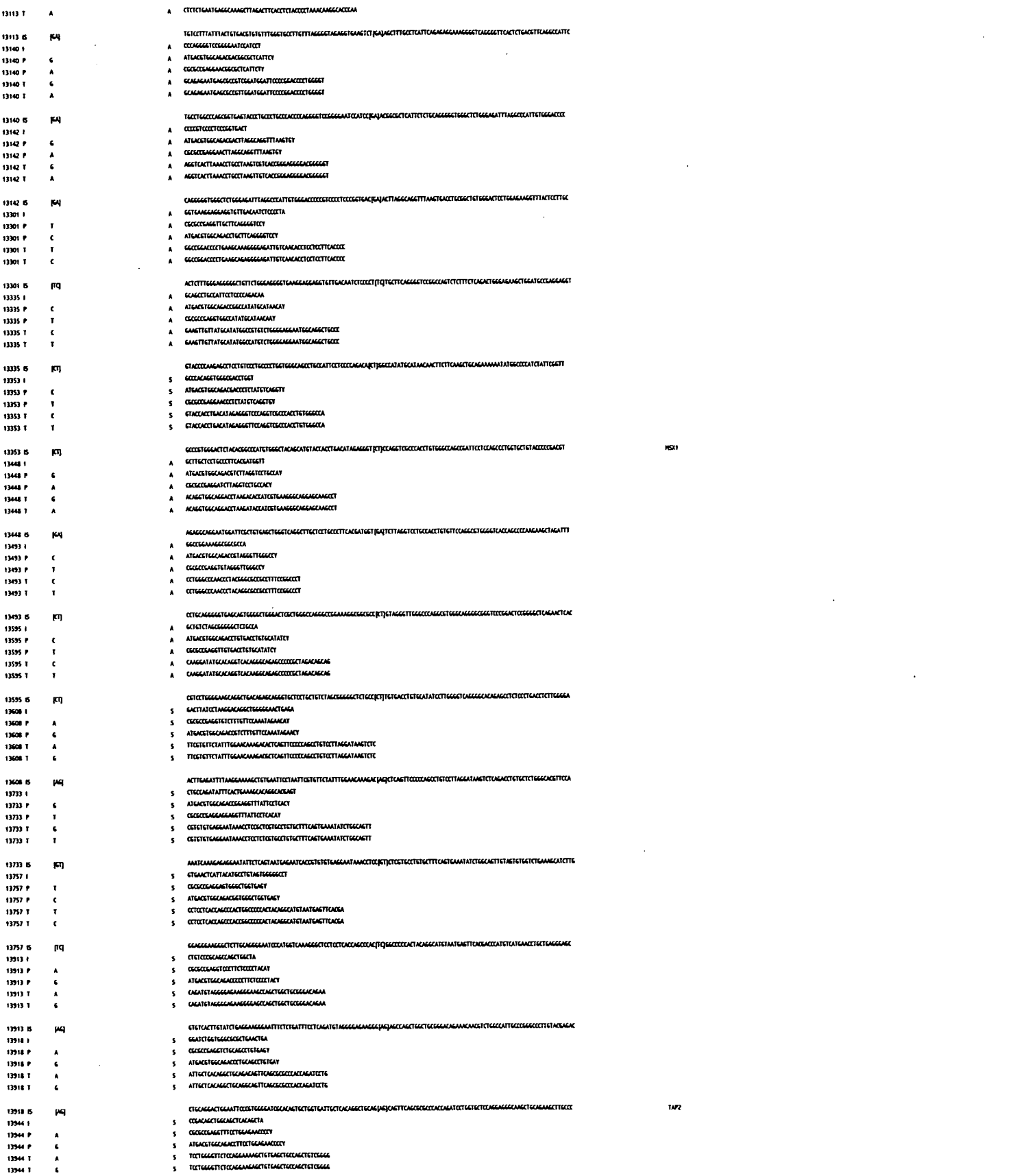
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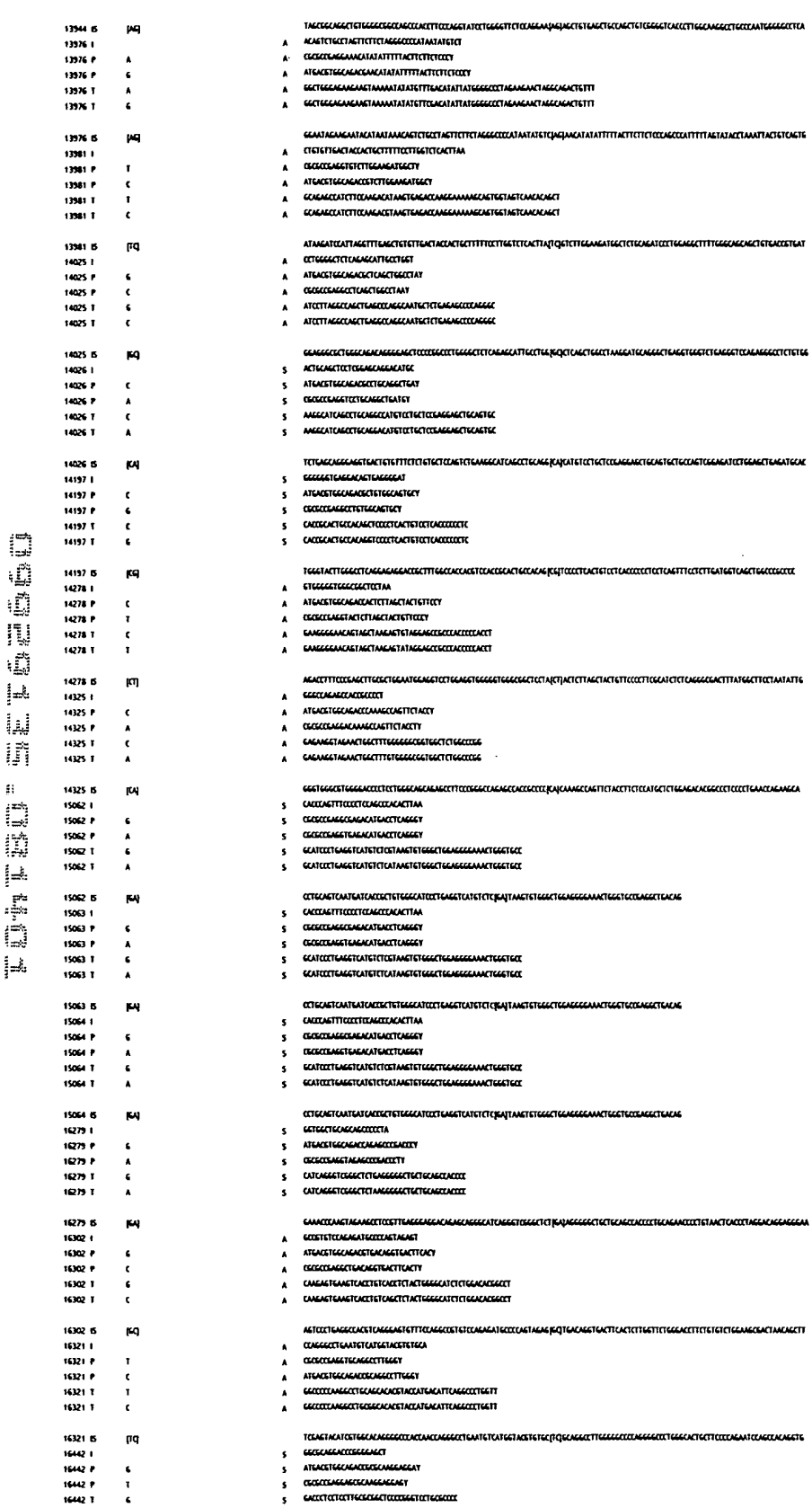


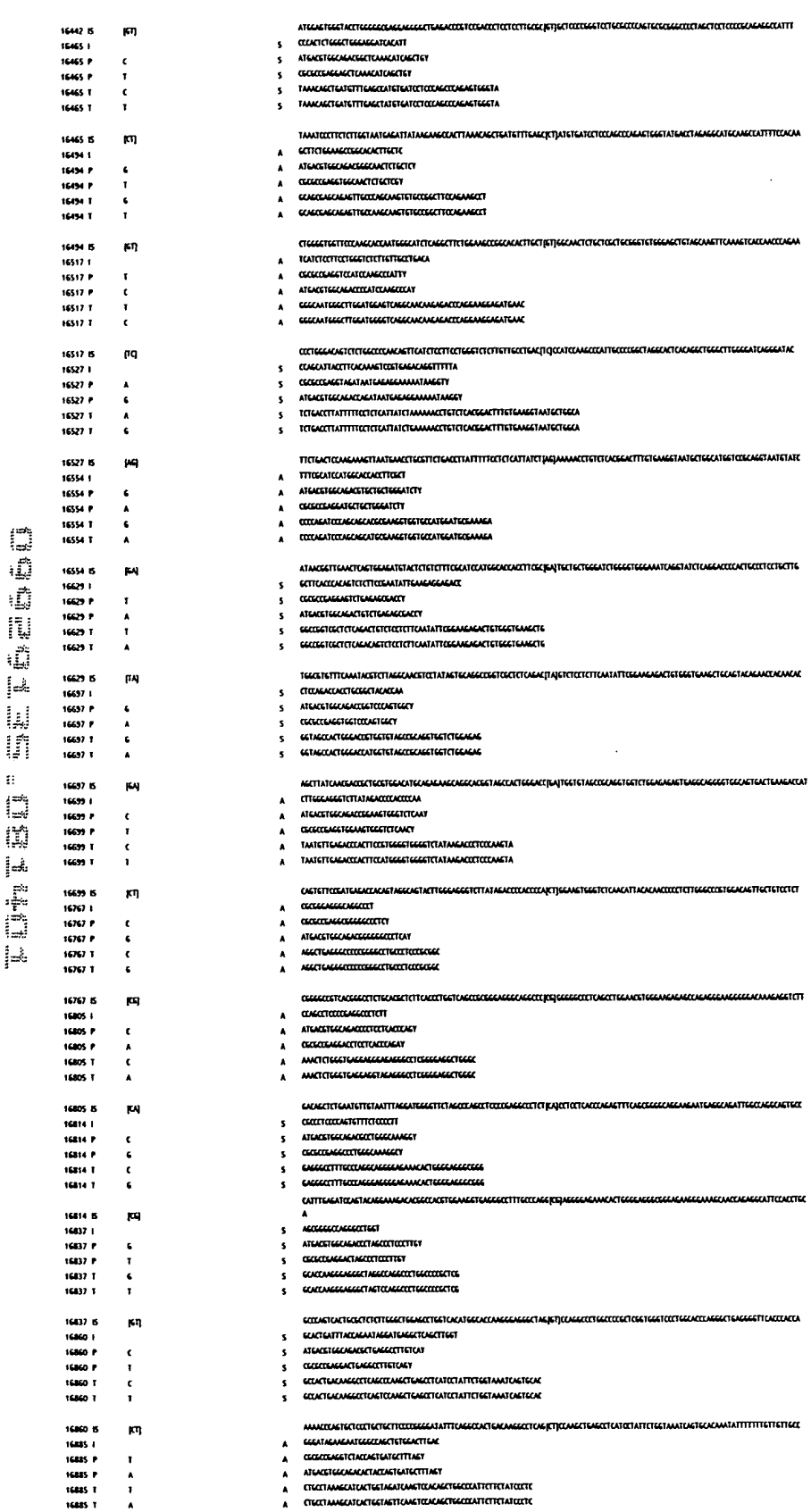
















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FIGURE 129F

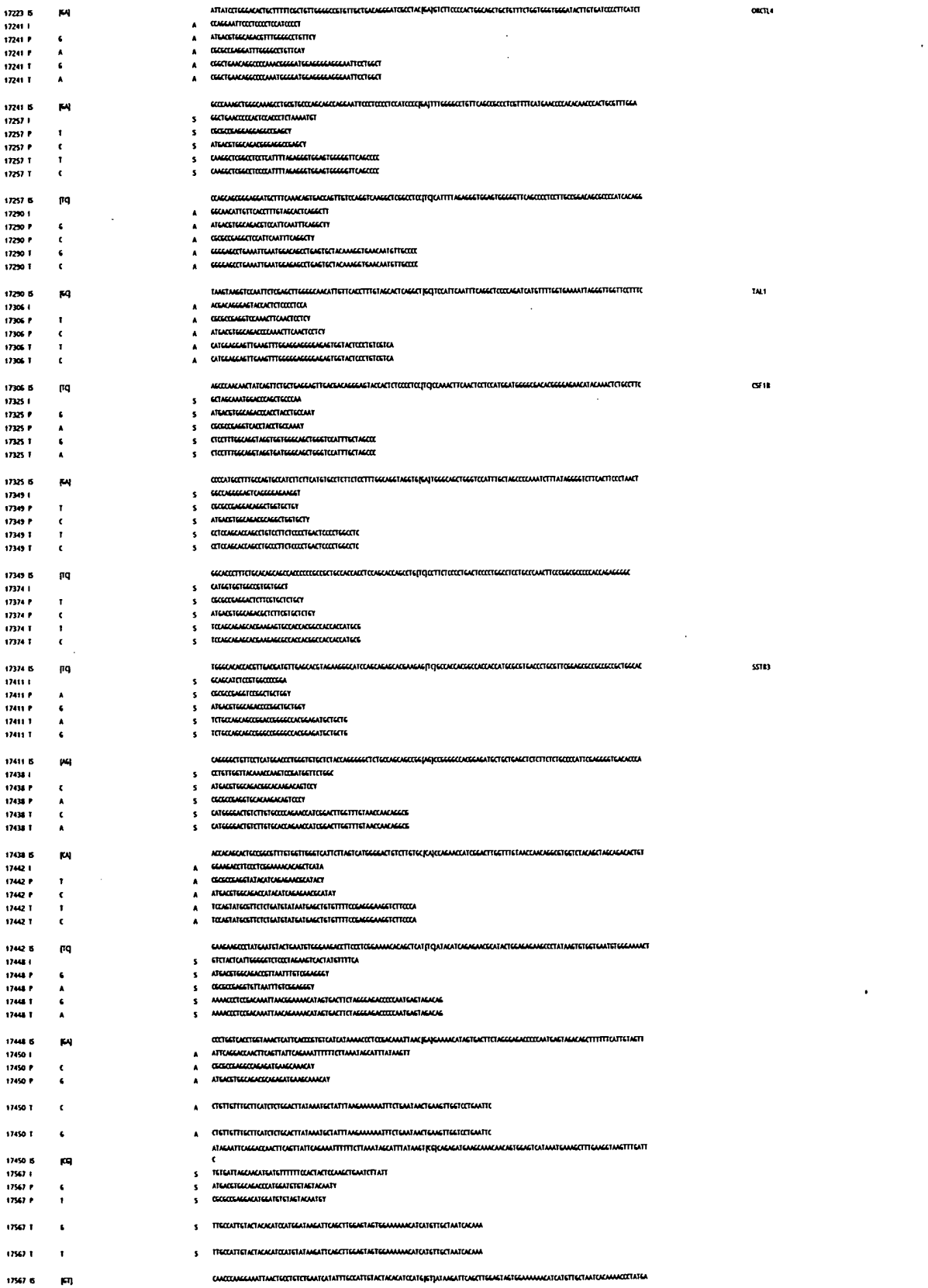


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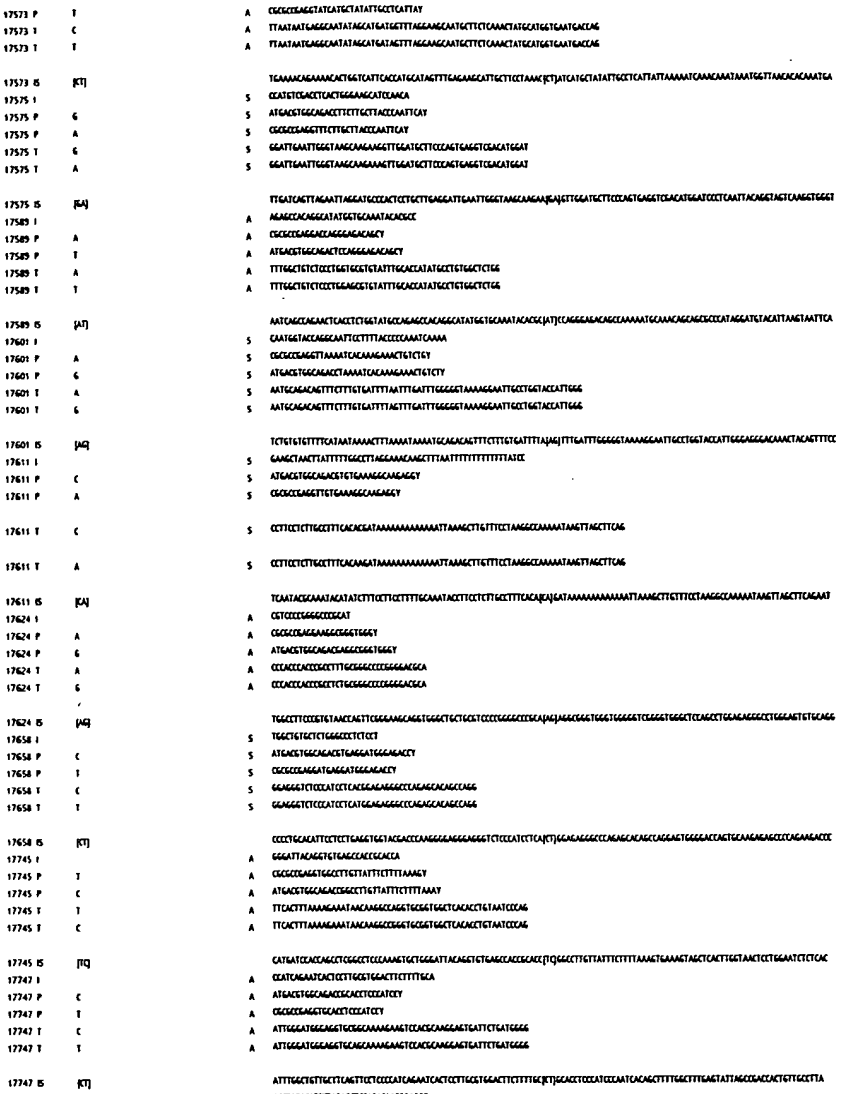
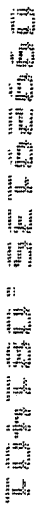
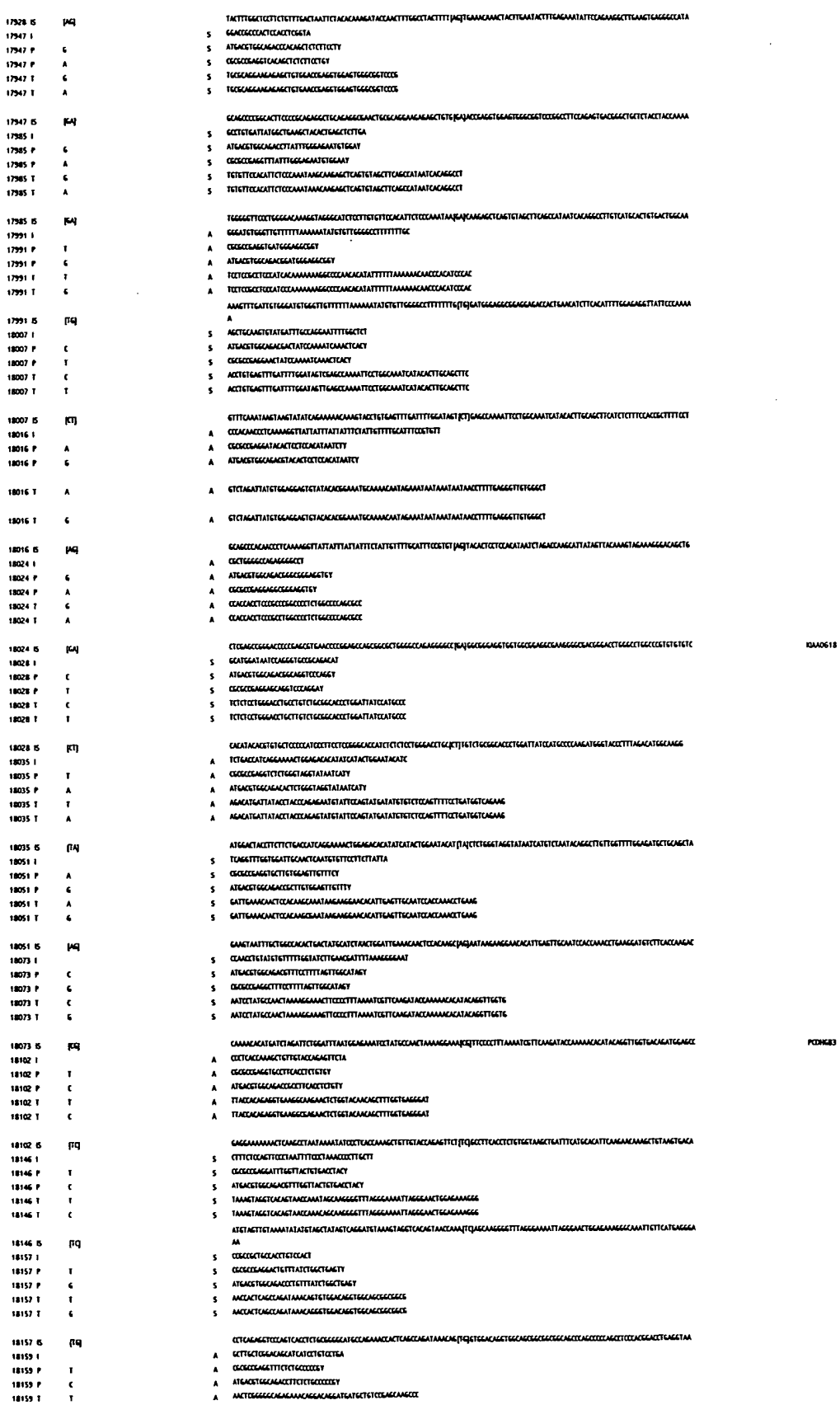
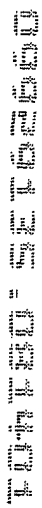


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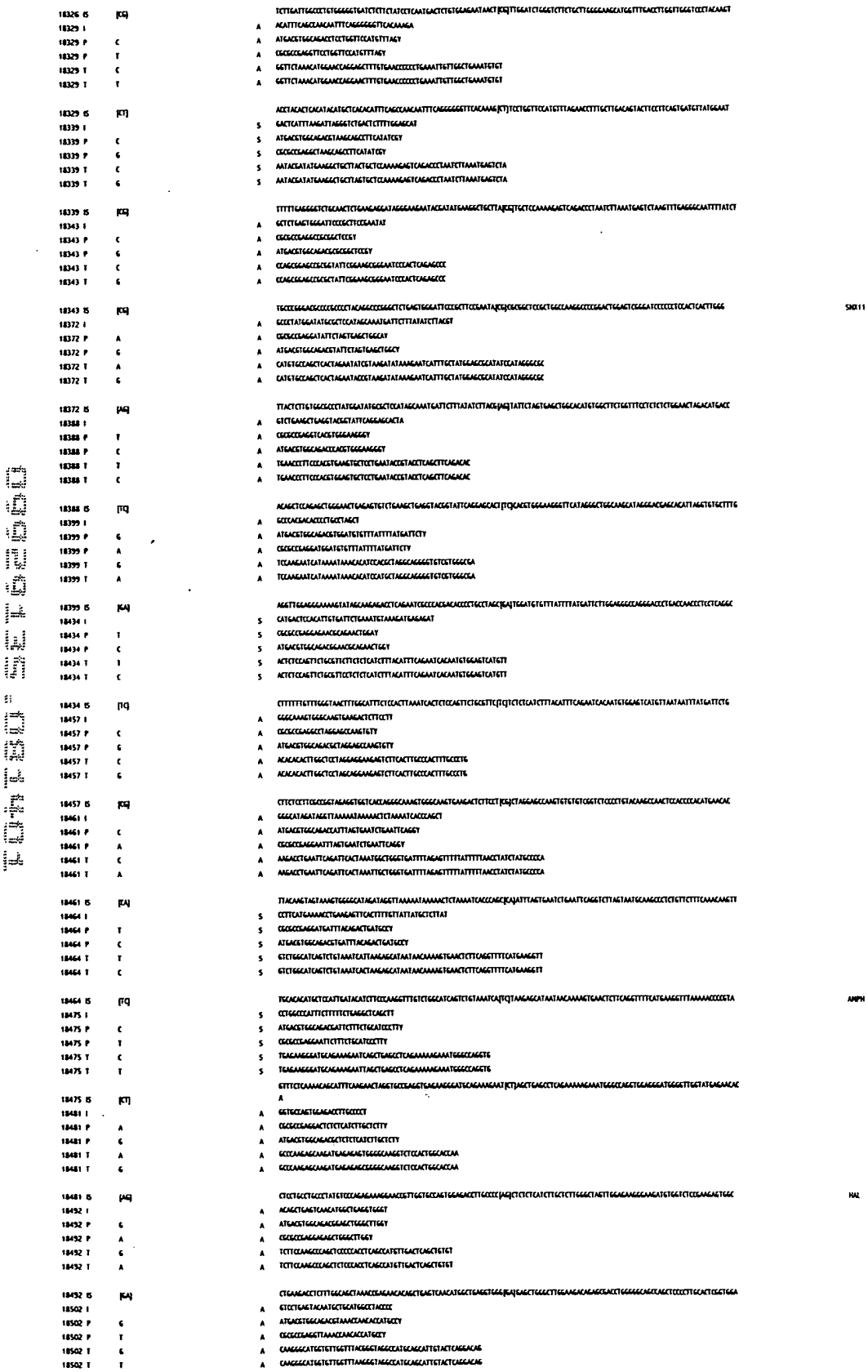


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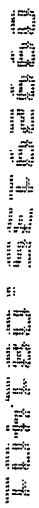


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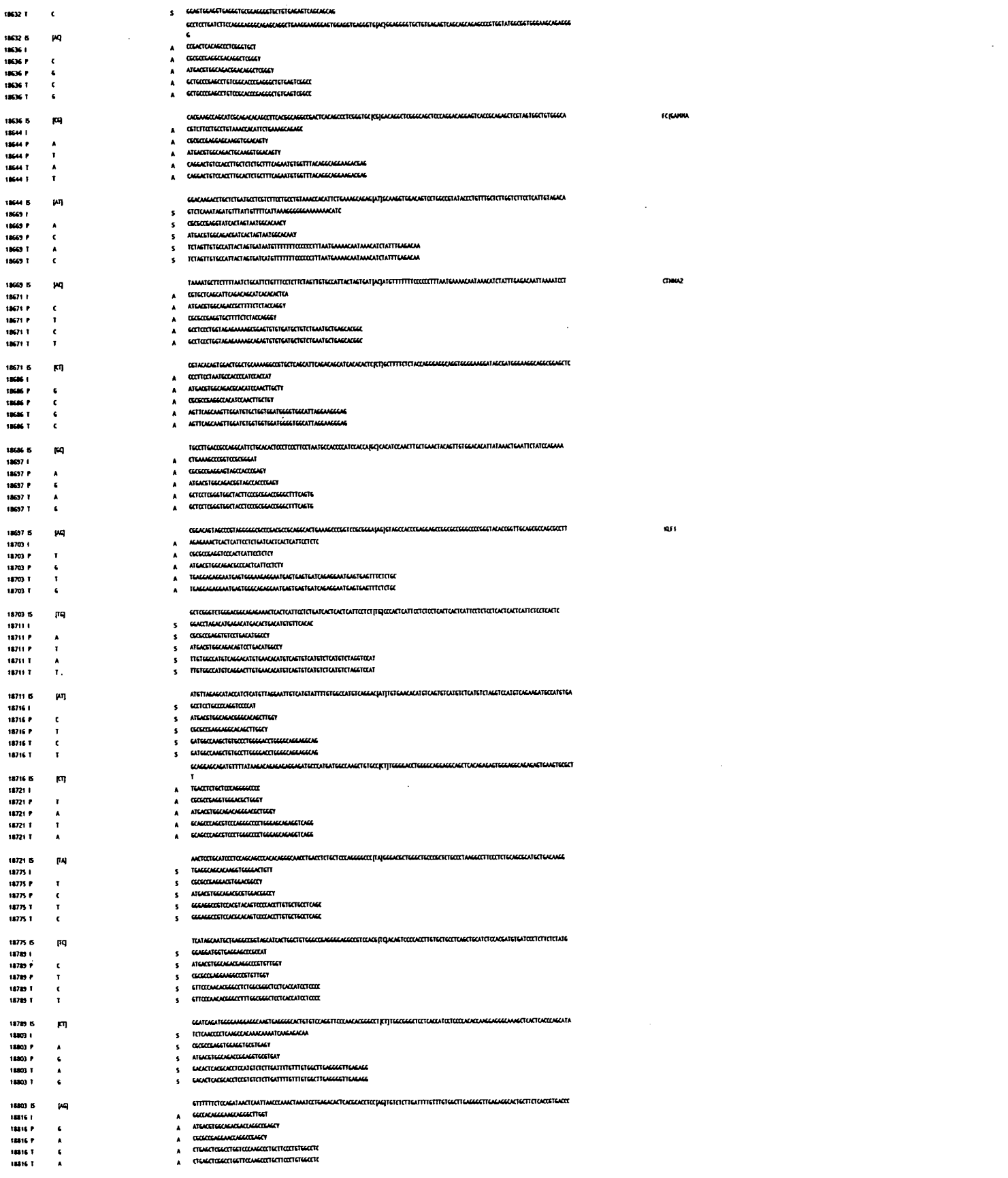
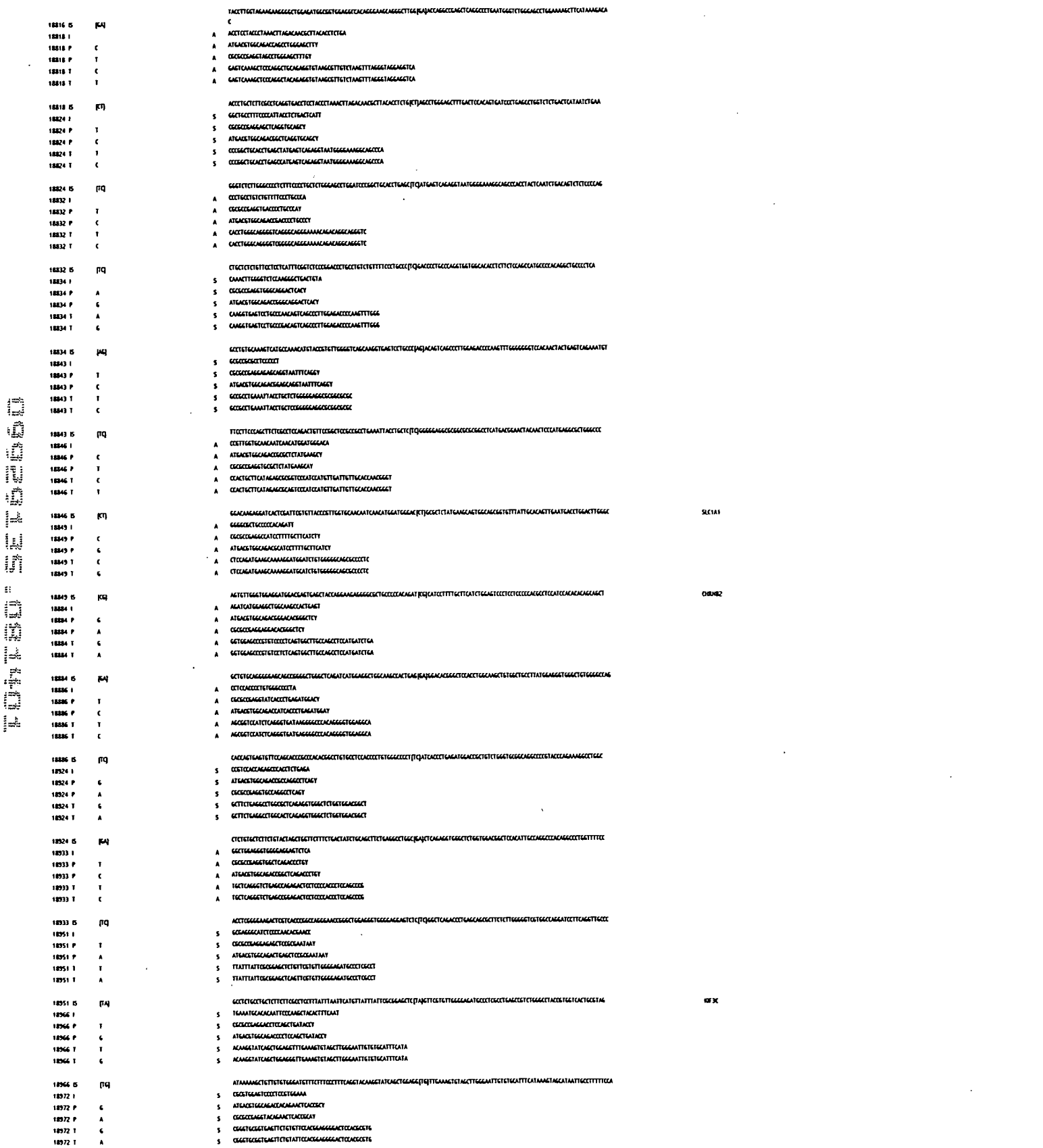
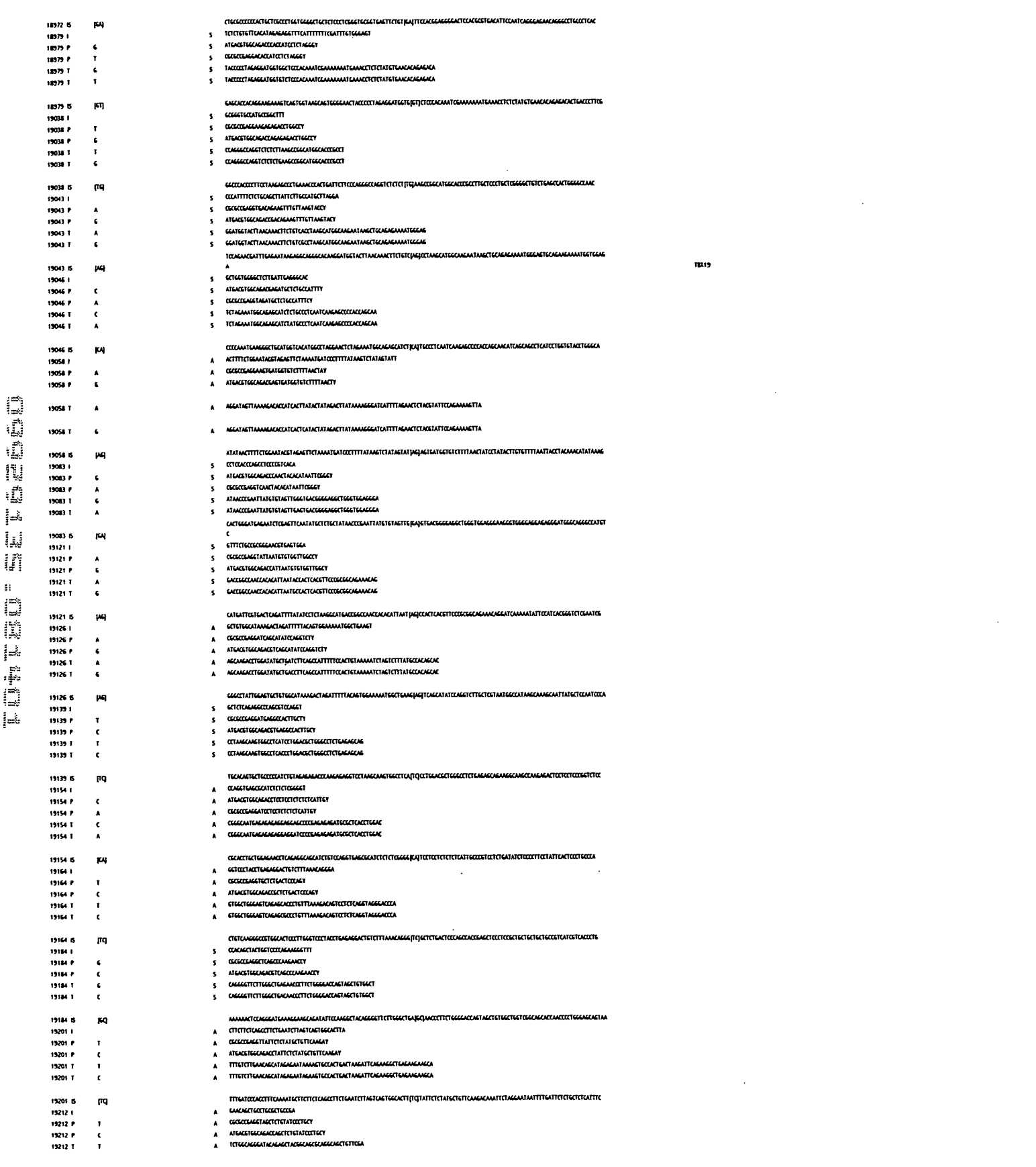


FIGURE 129F





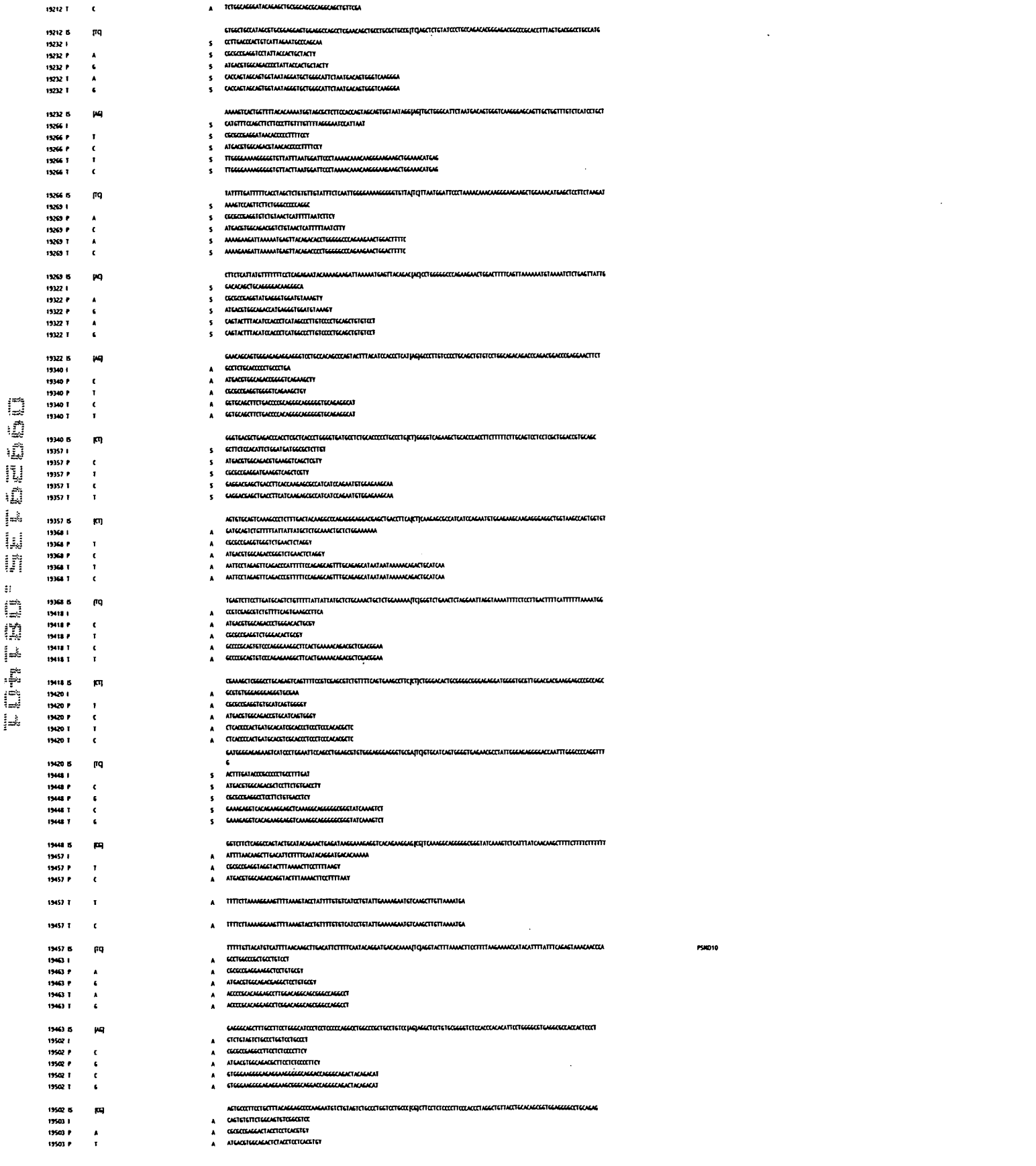


FIGURE 129F

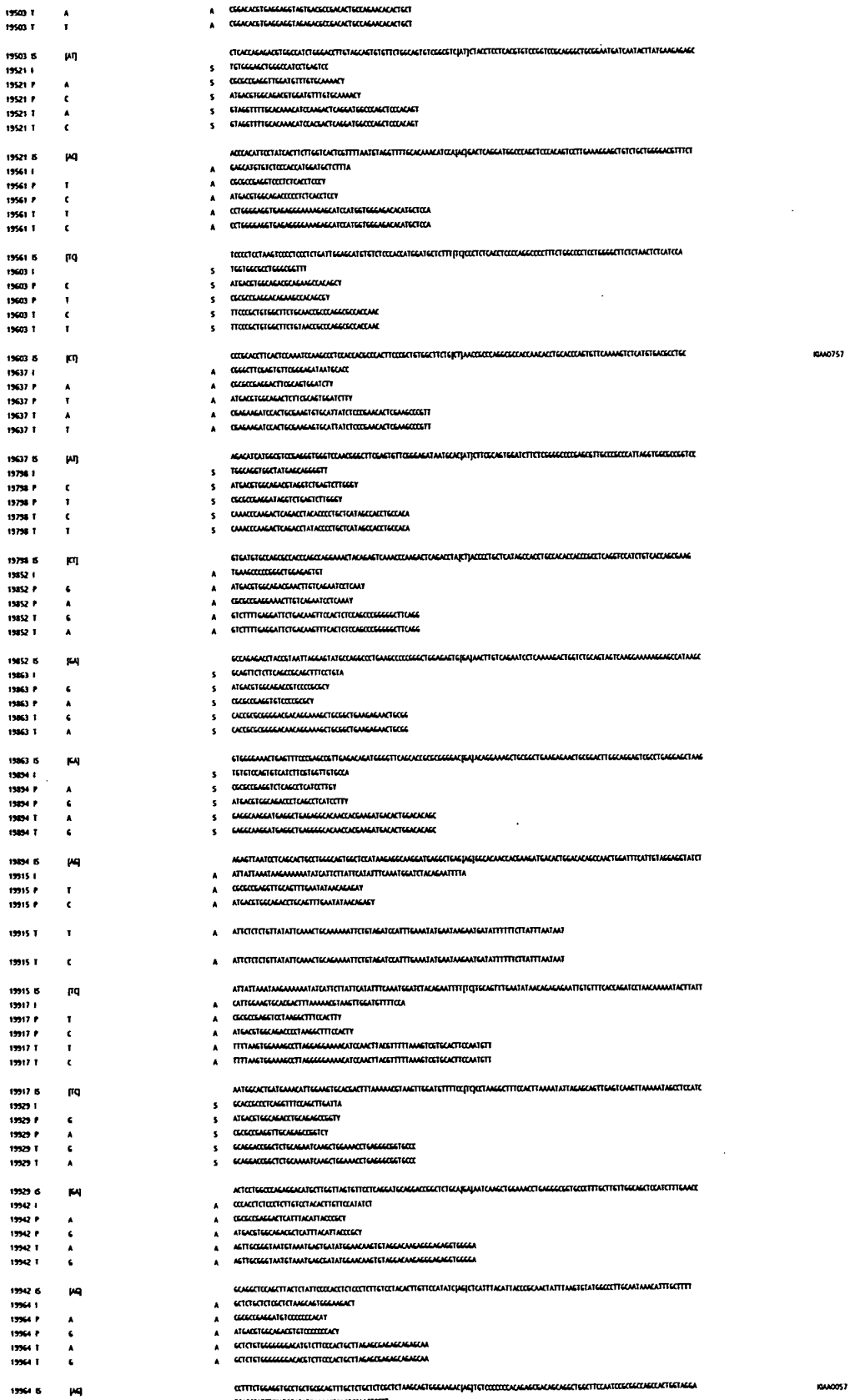
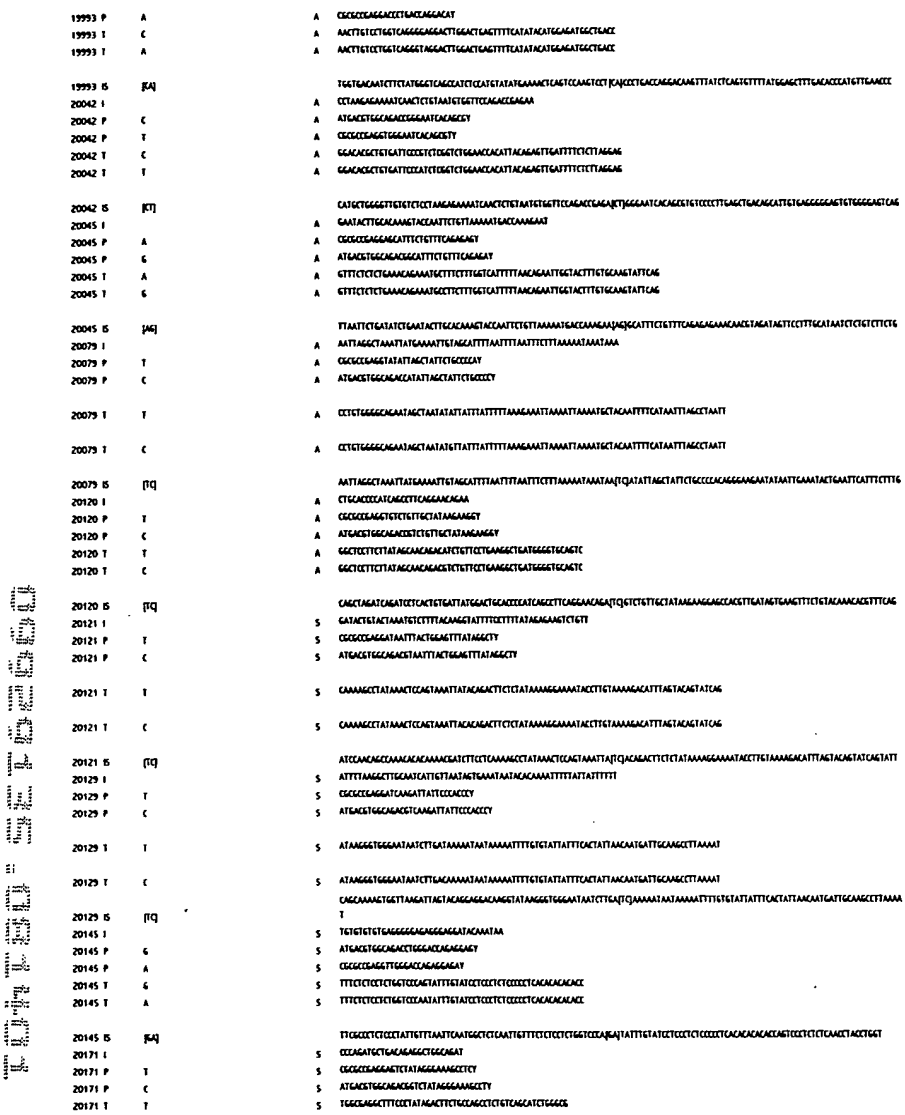


FIGURE 129F



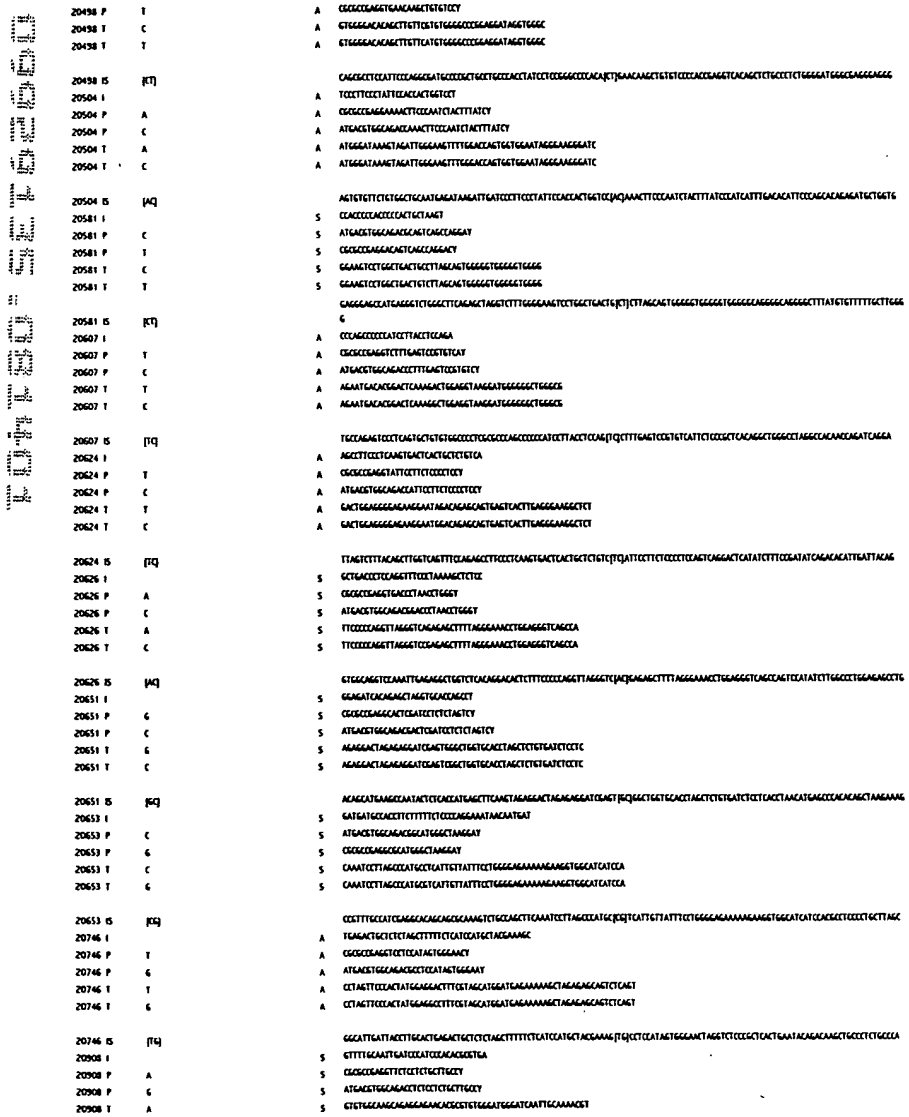




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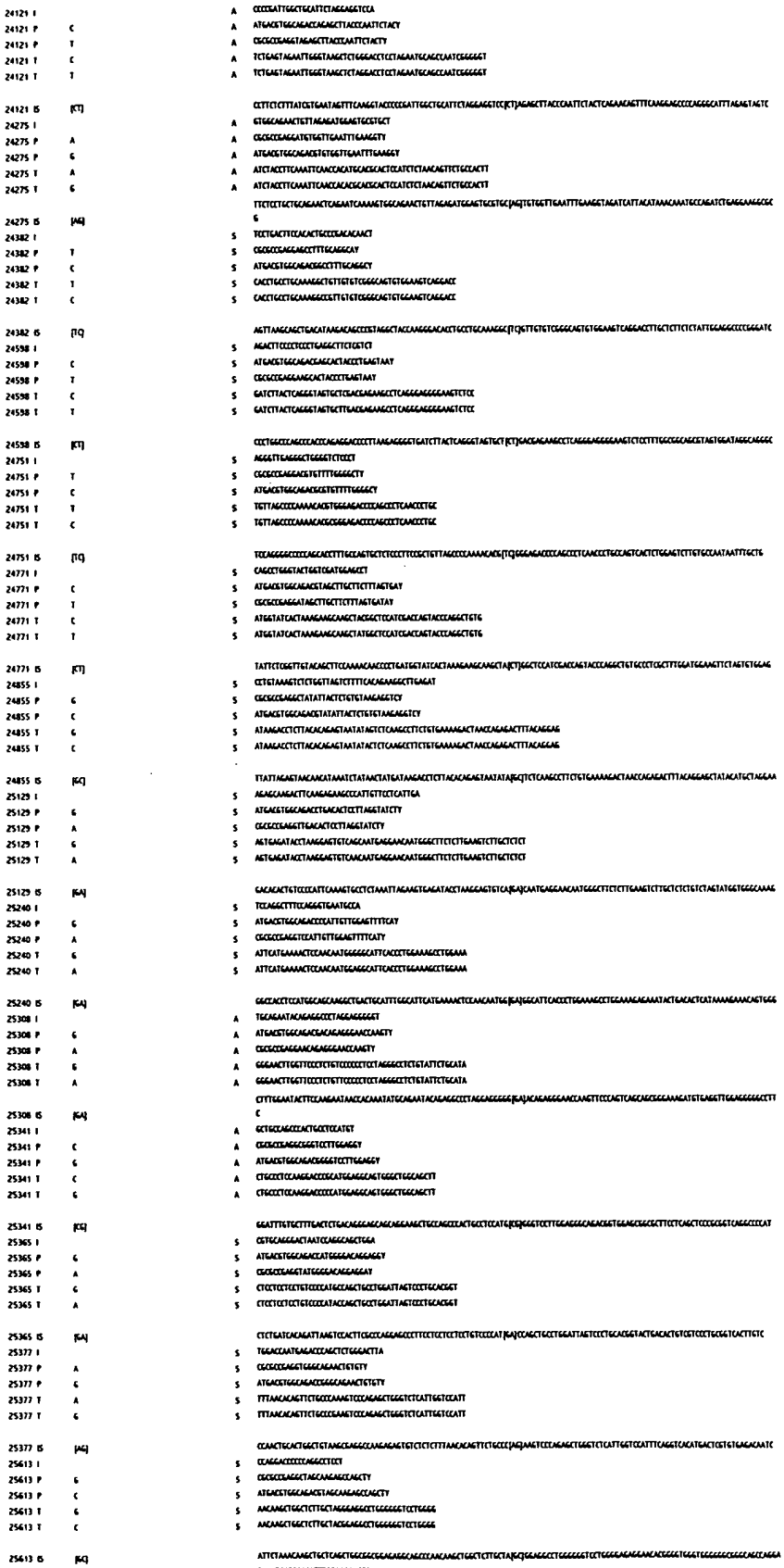


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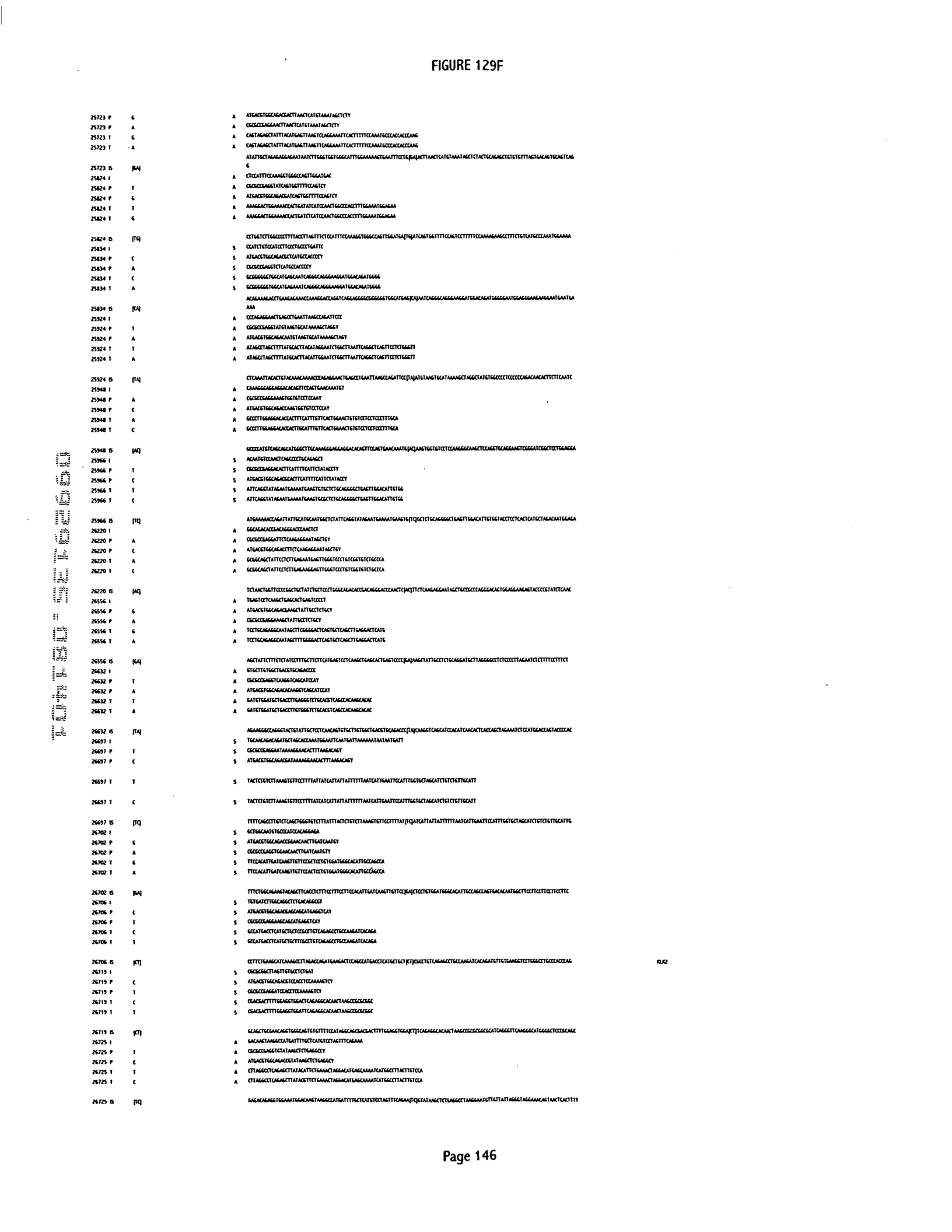
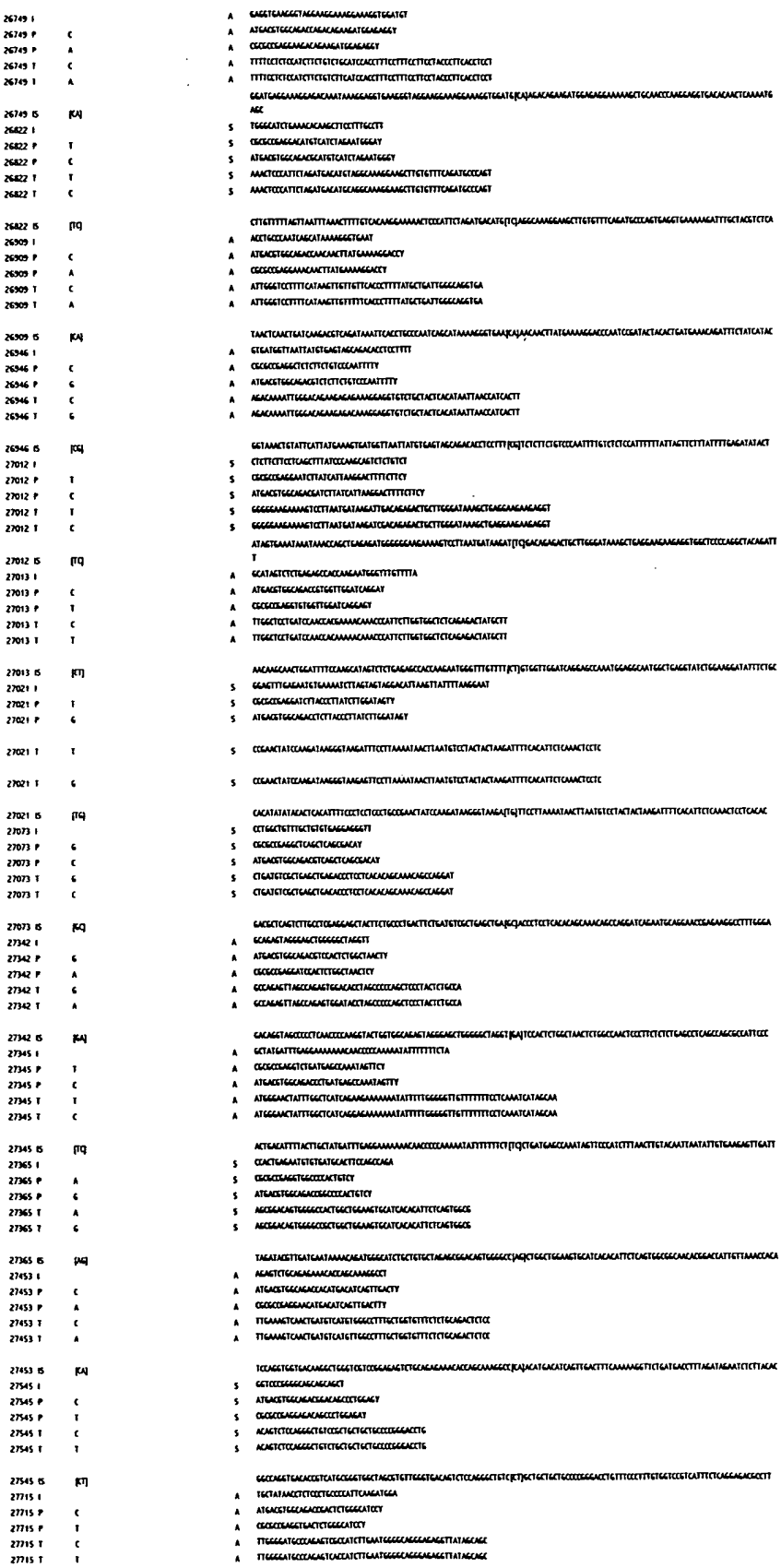


FIGURE 129F



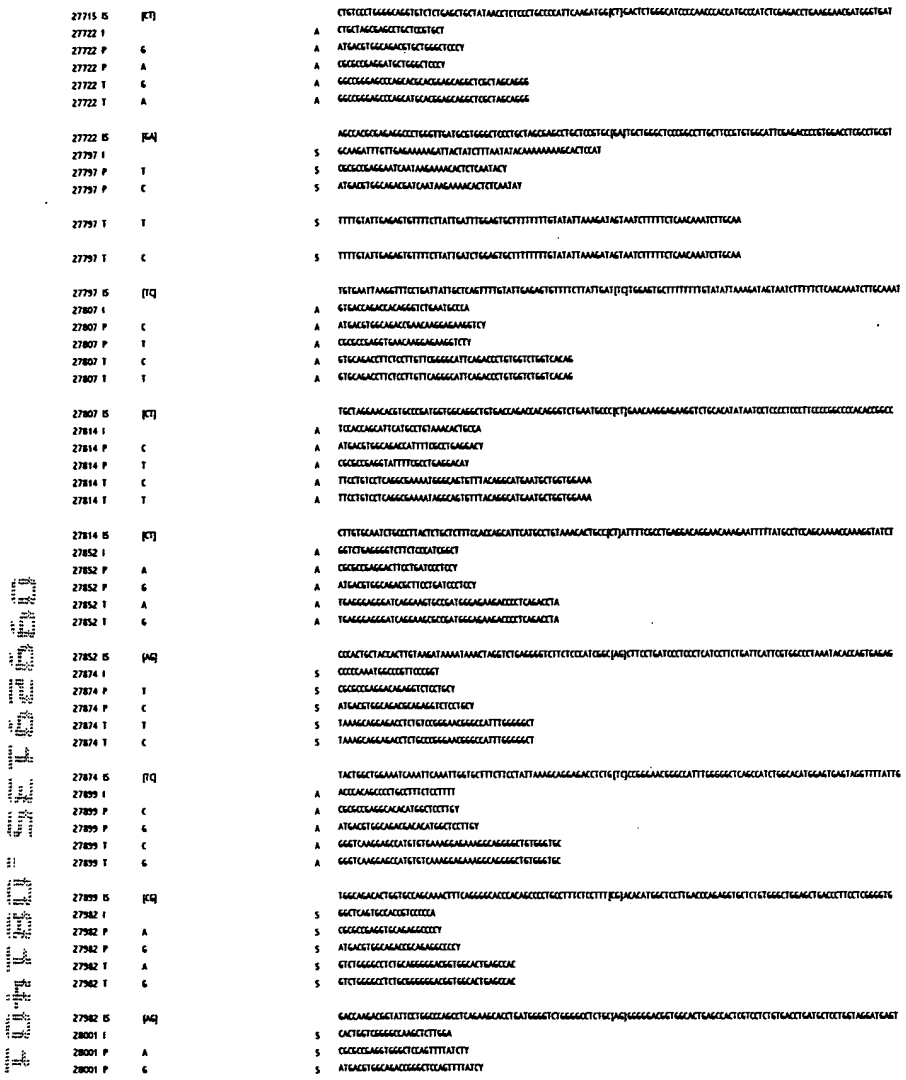
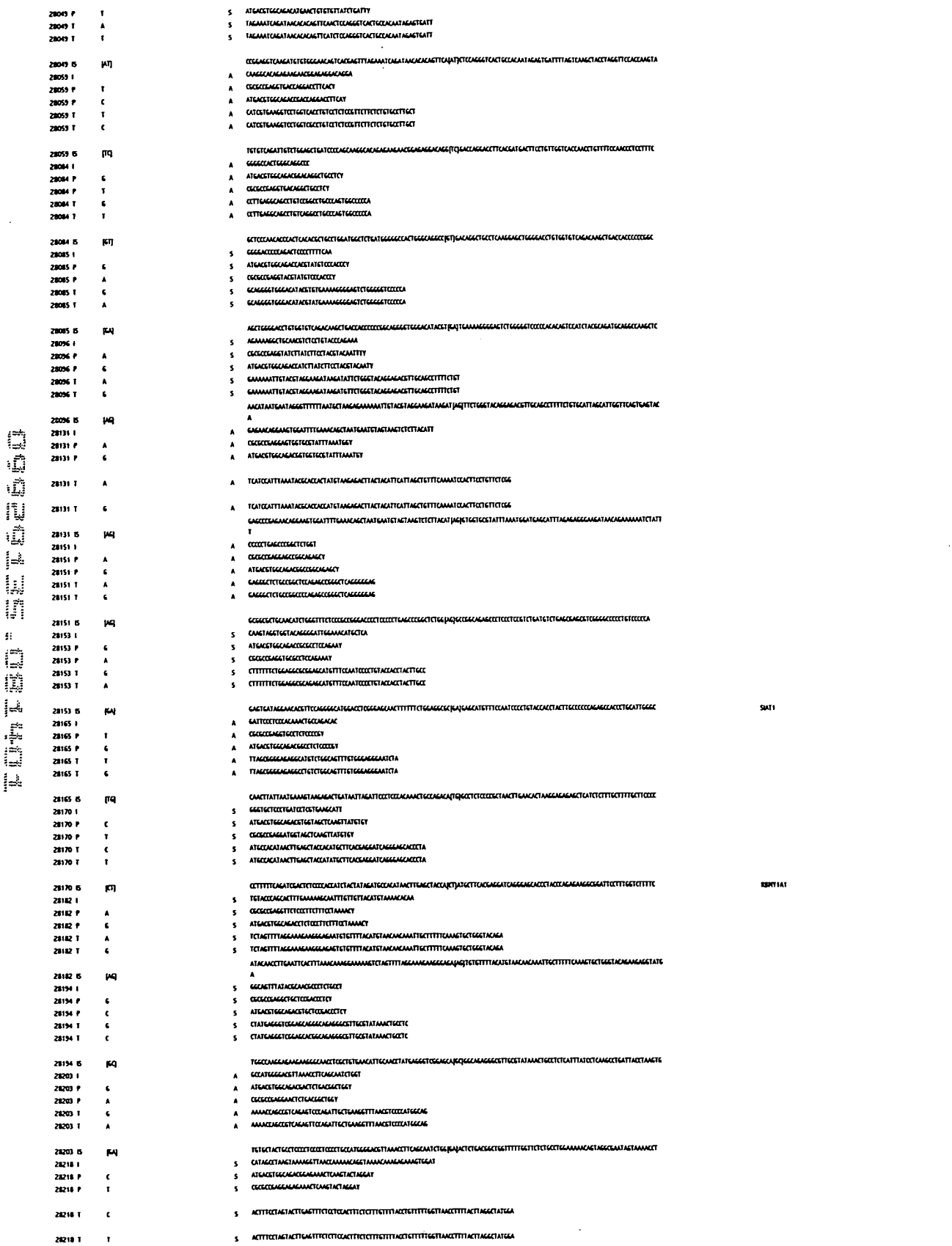
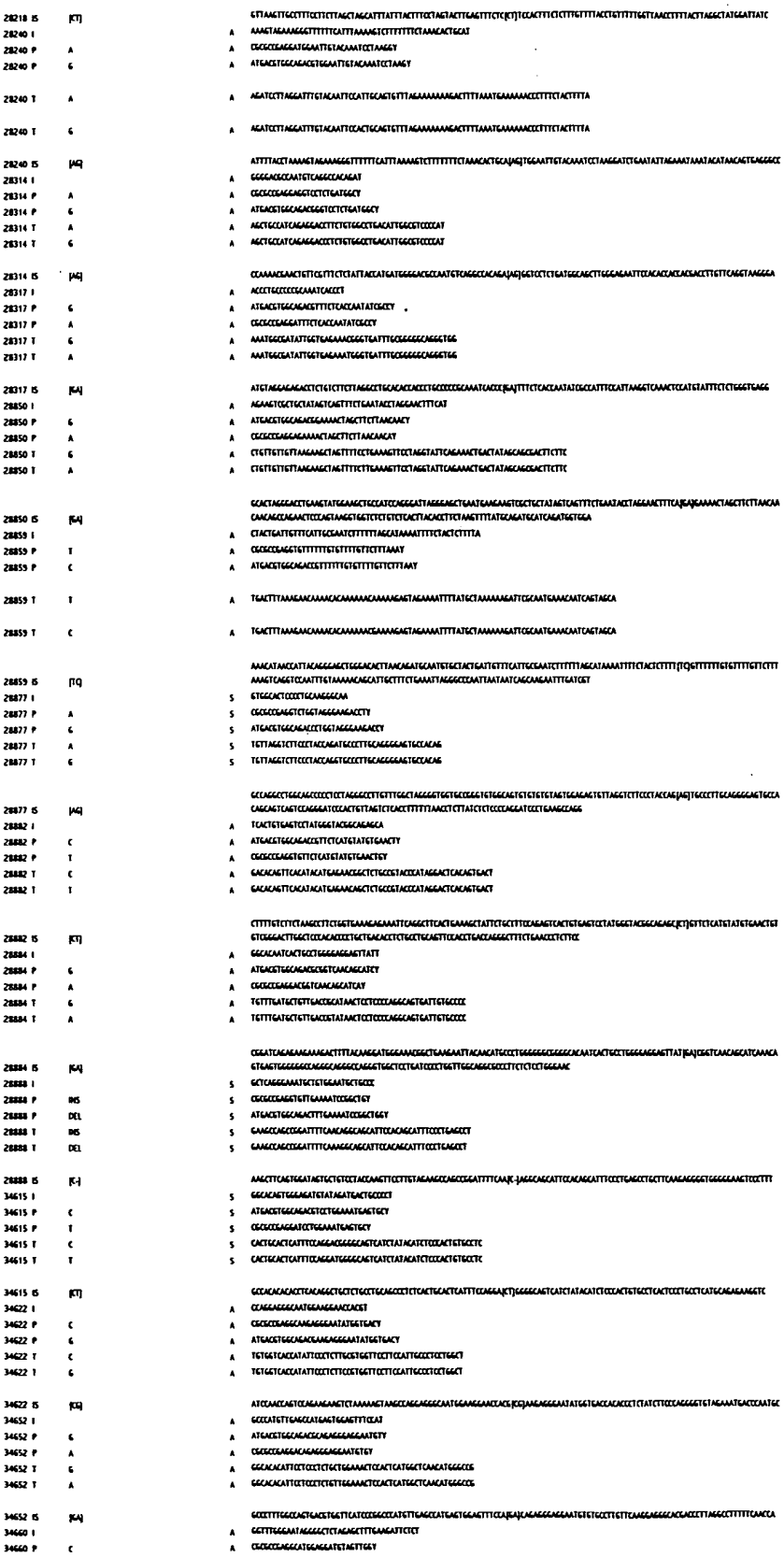


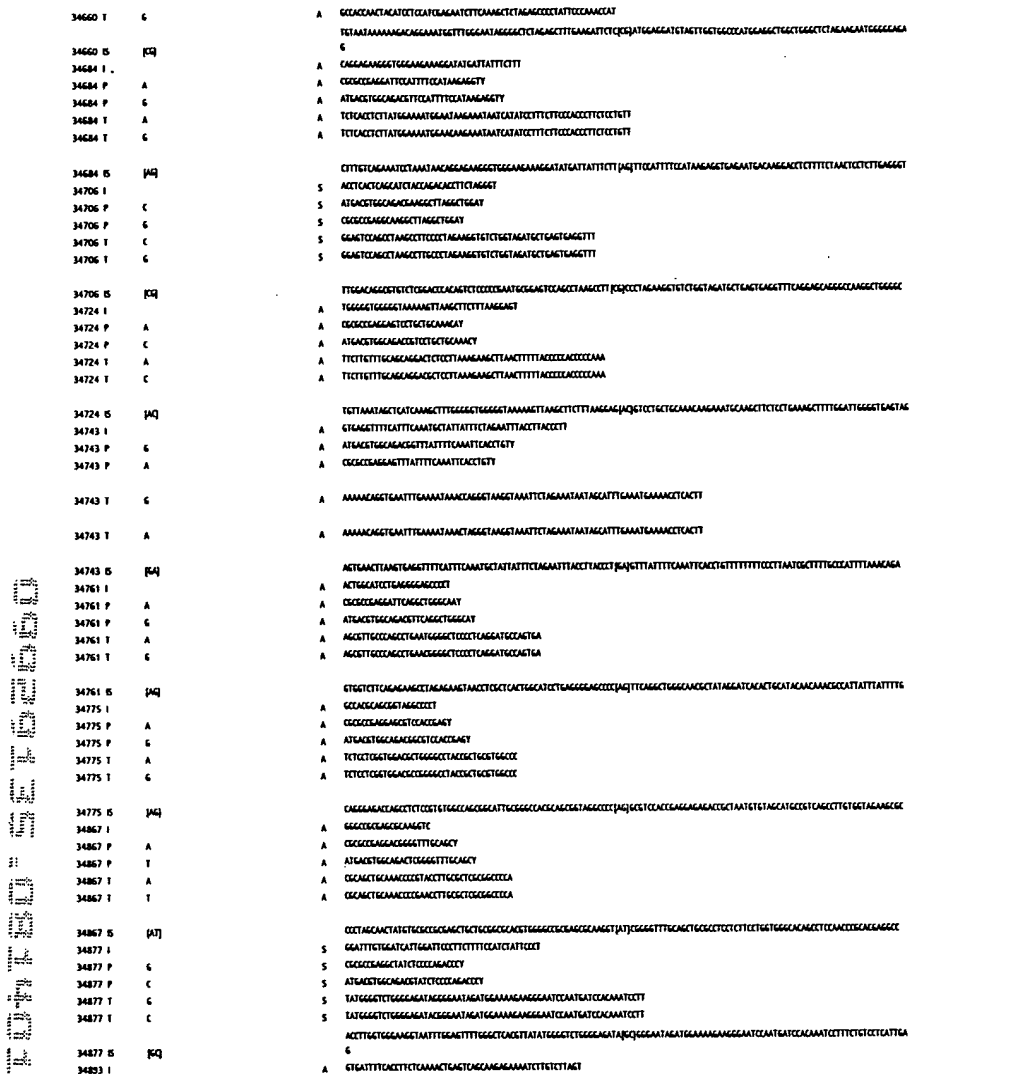
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FIGURE 129F



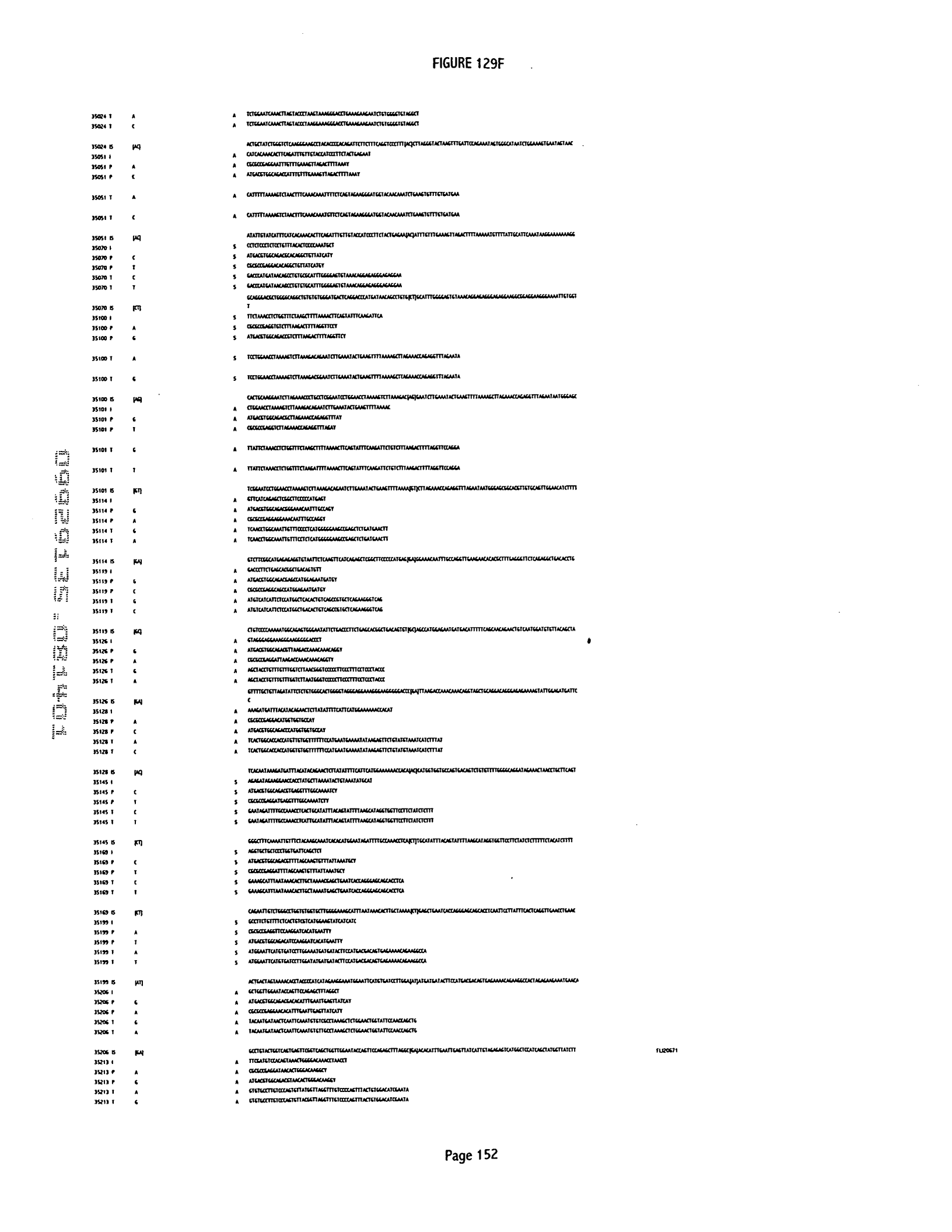


FIGURE 129F

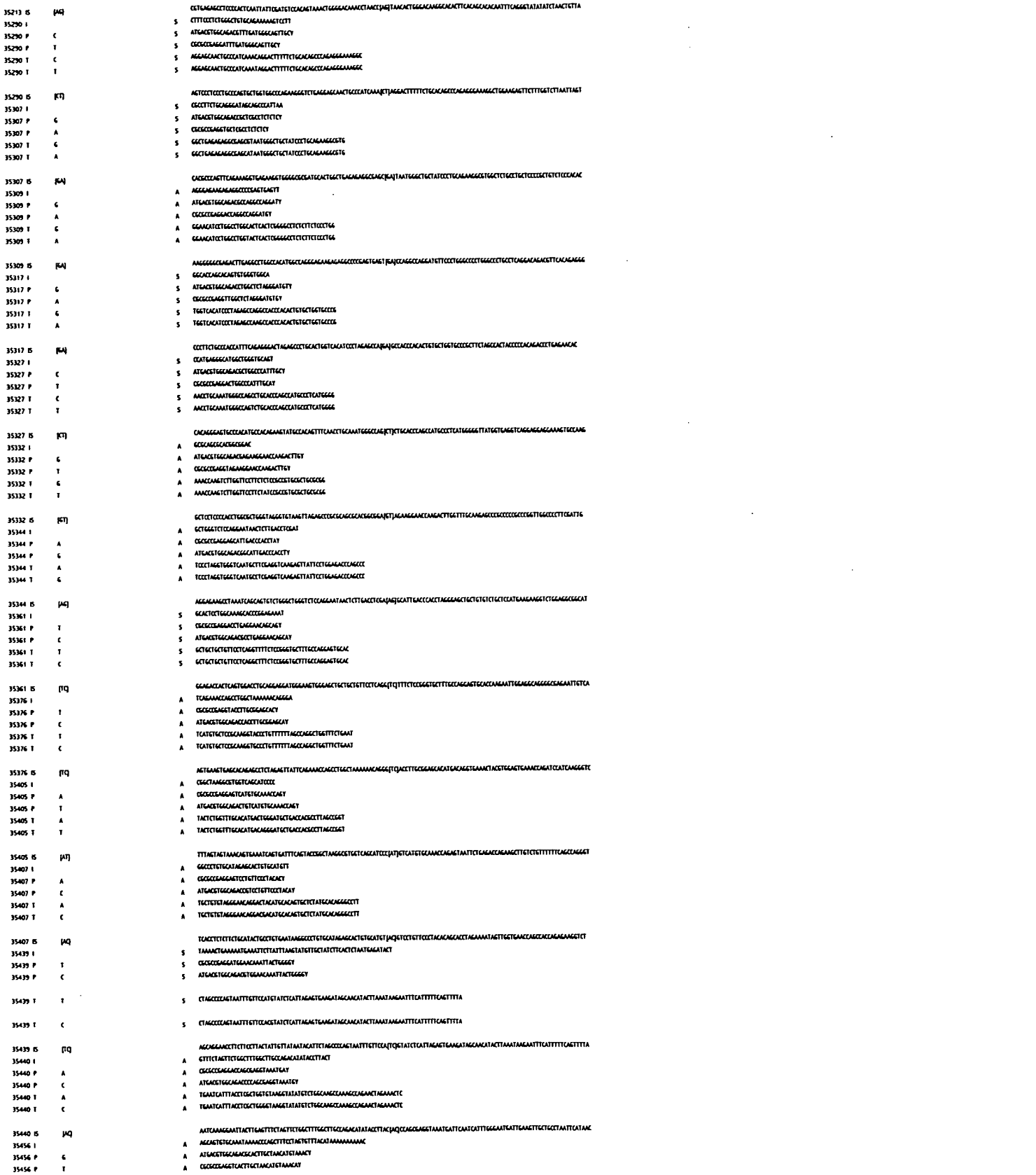
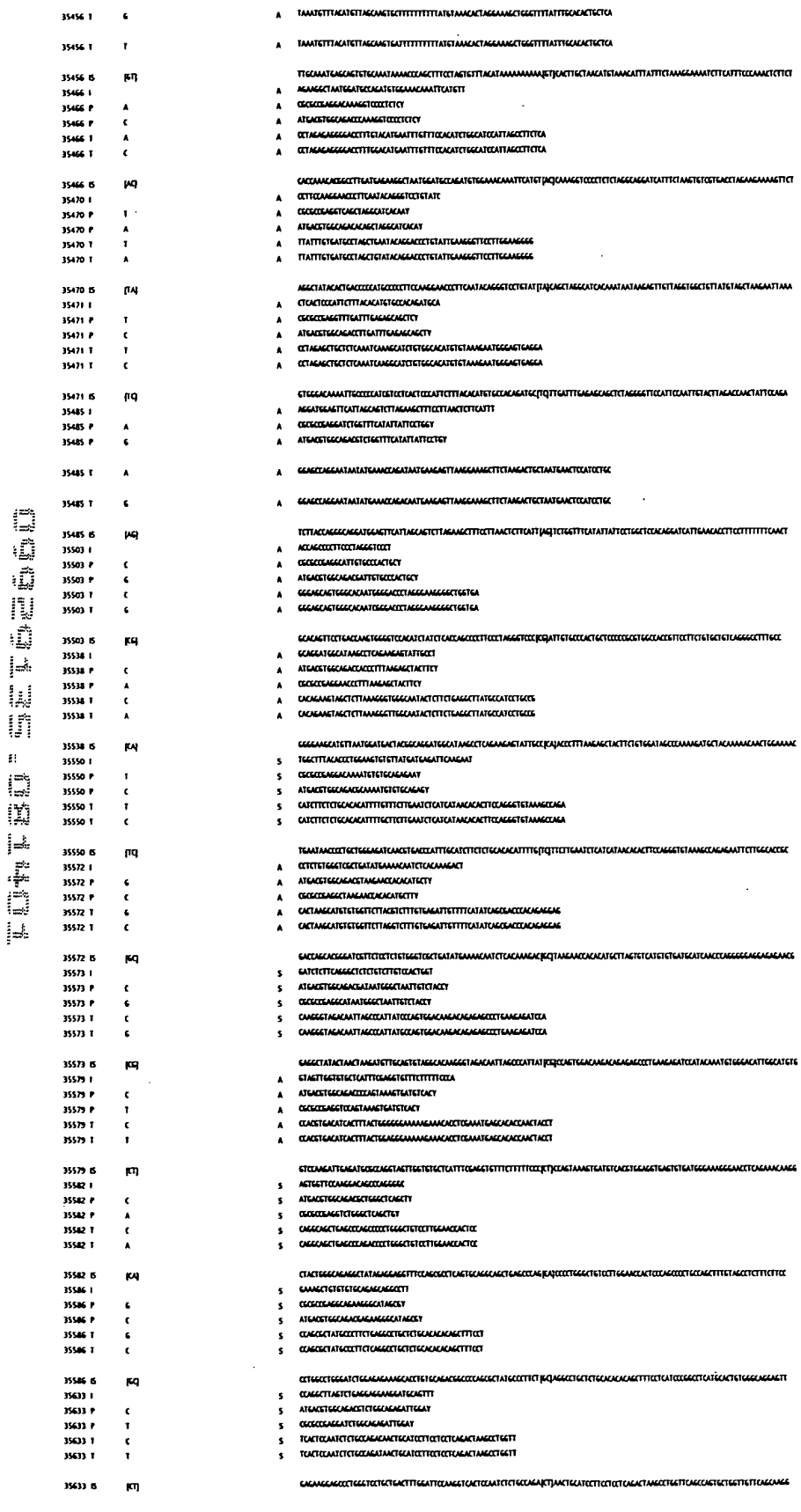
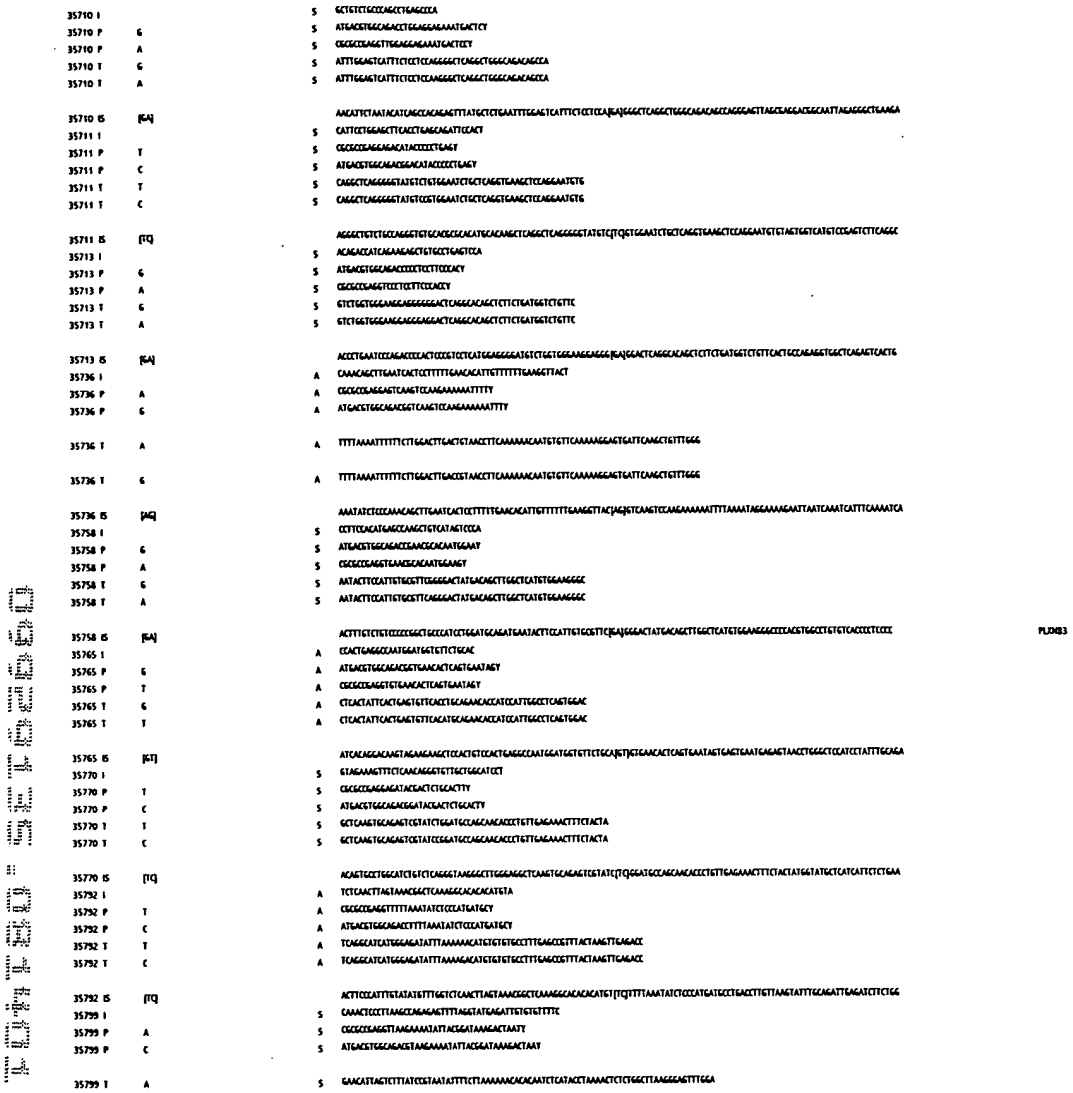
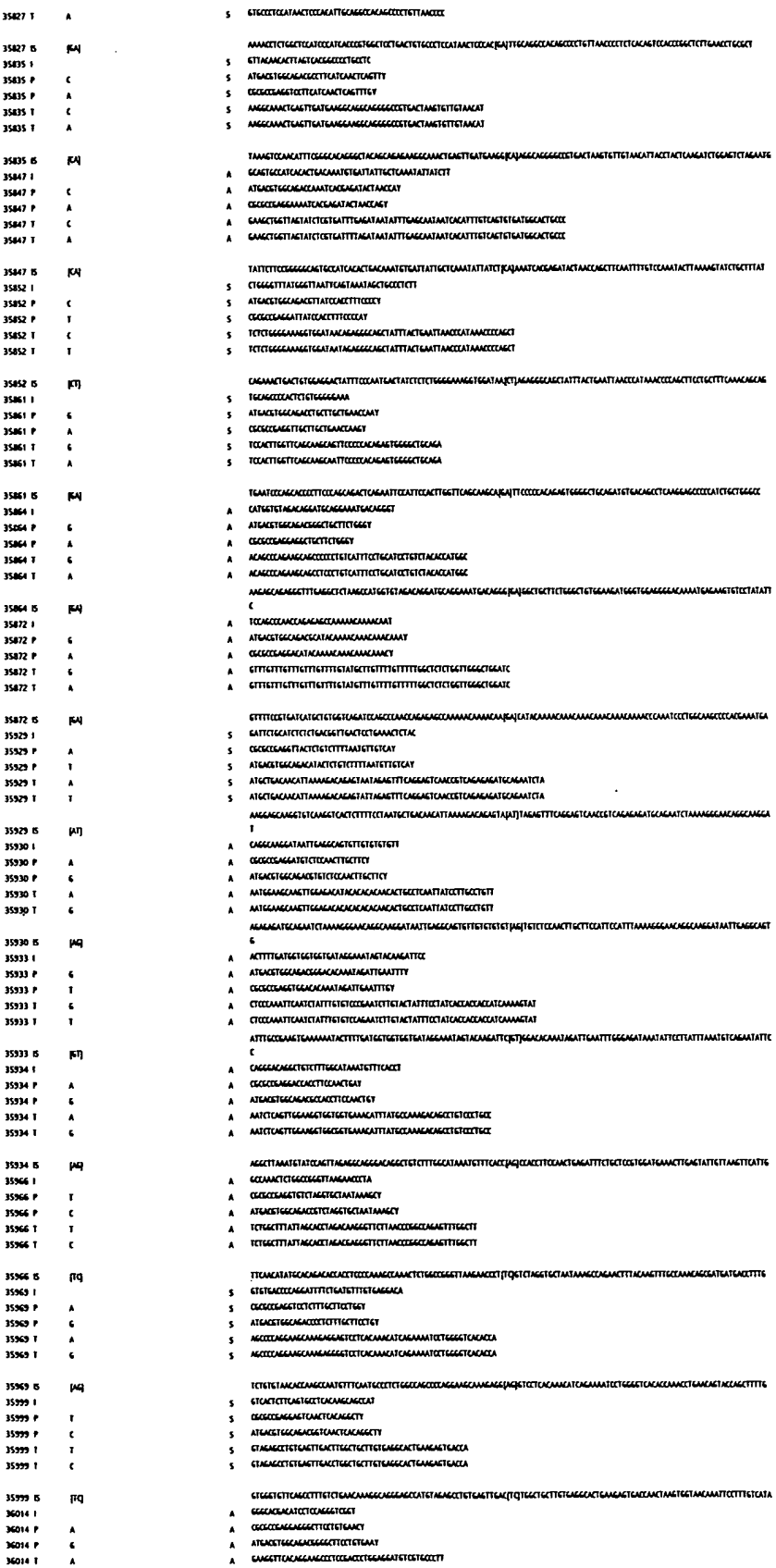


FIGURE 129F







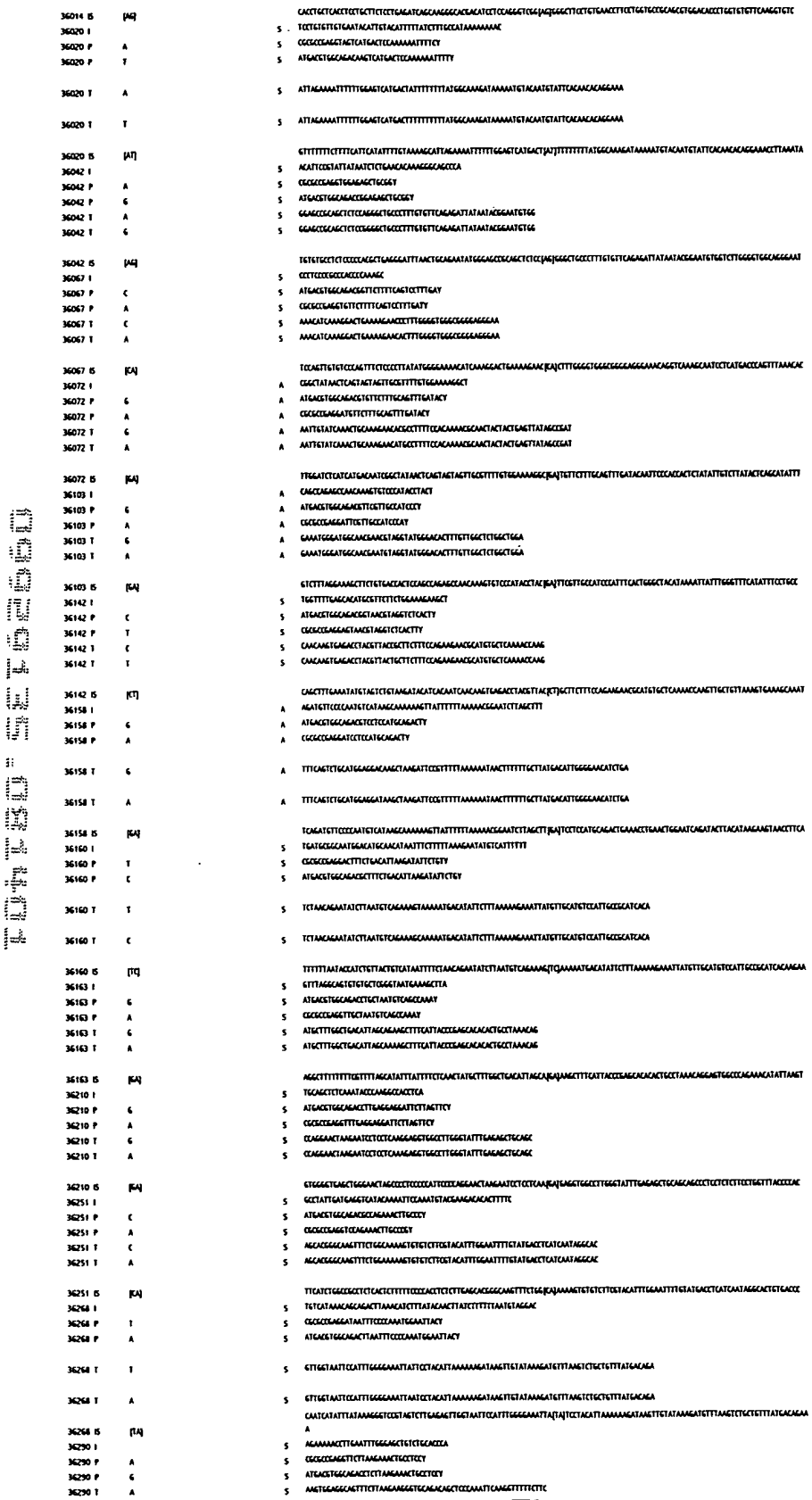


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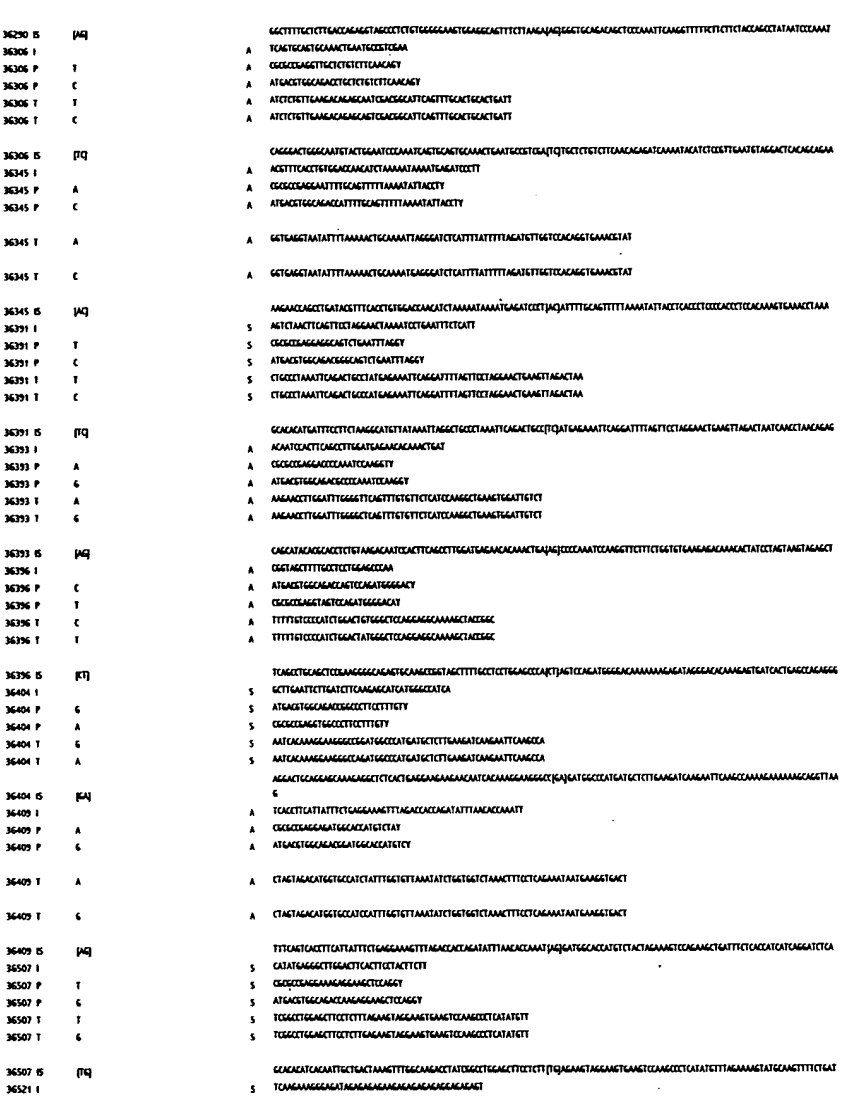


FIGURE 129F

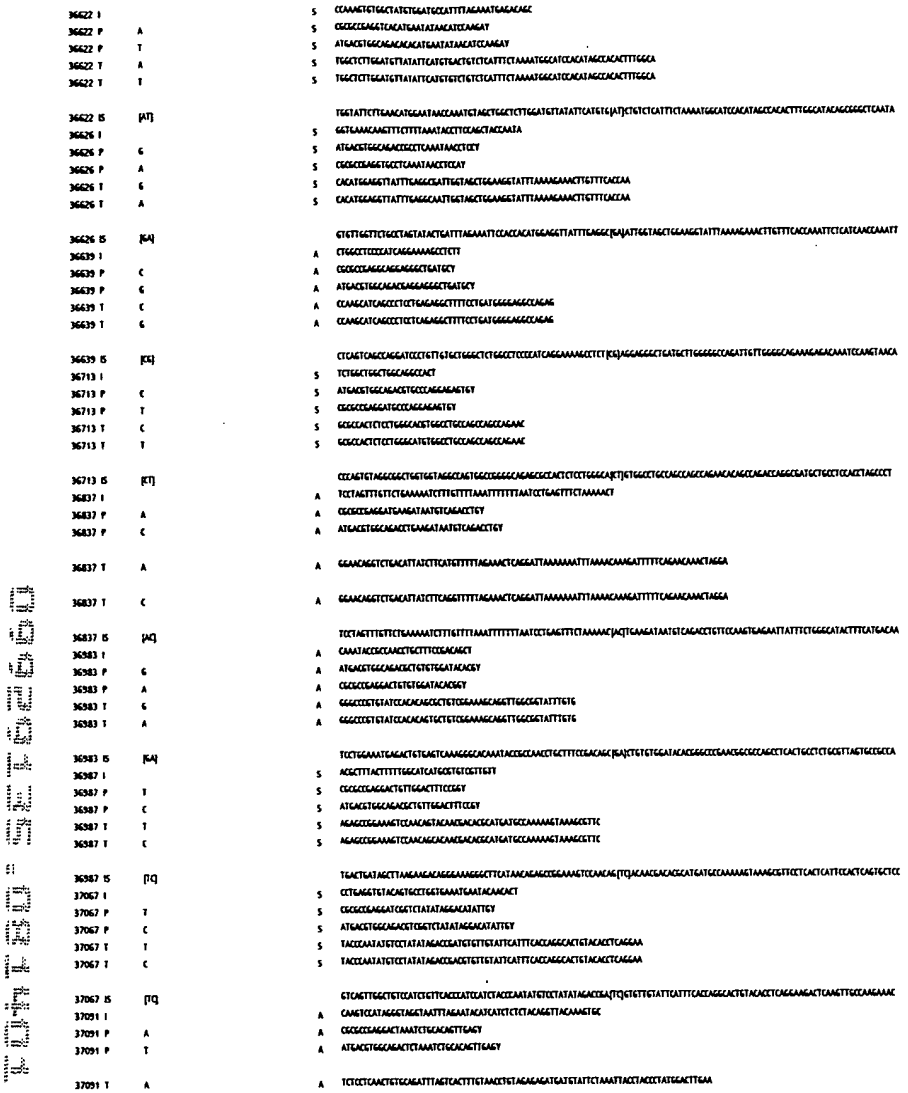


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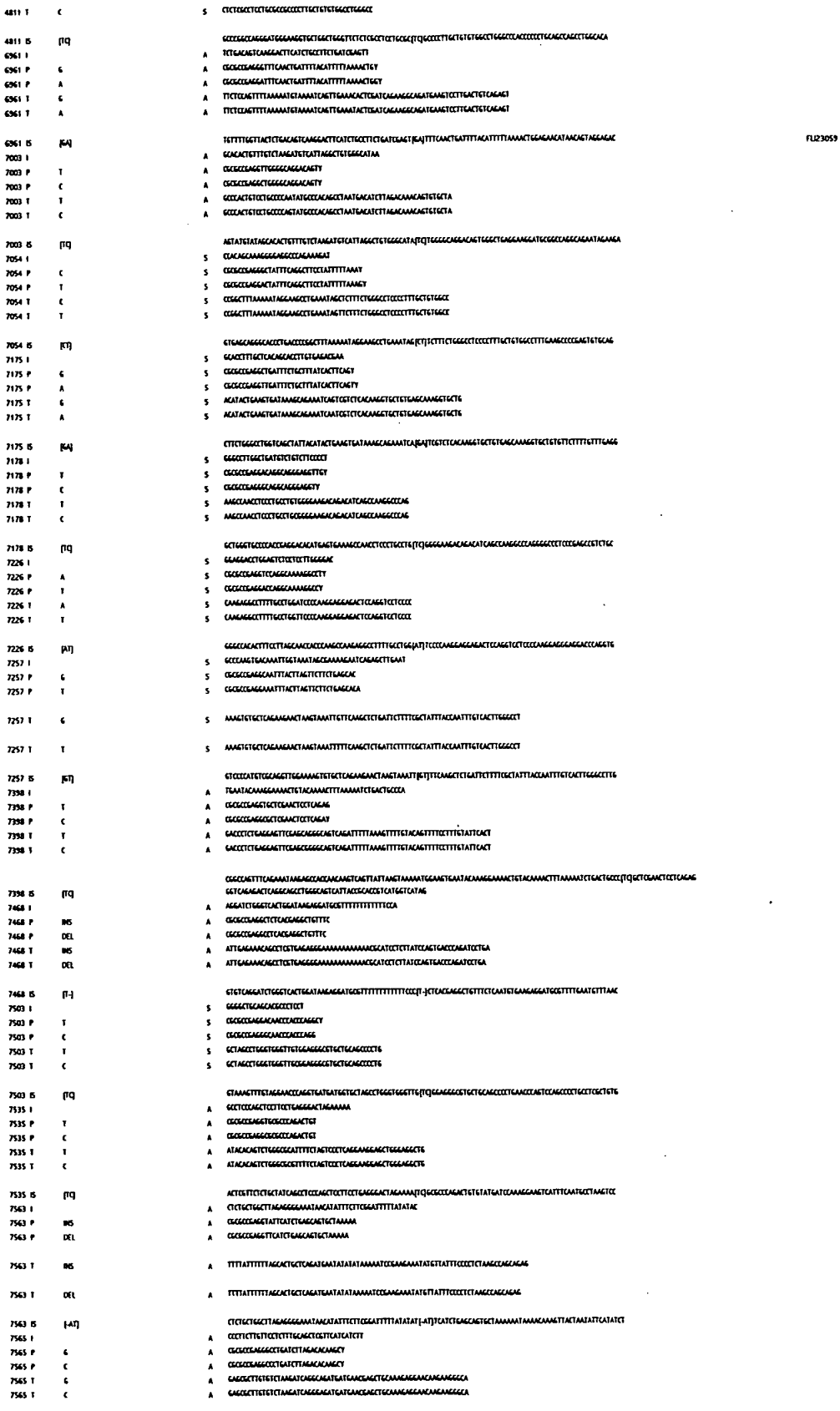
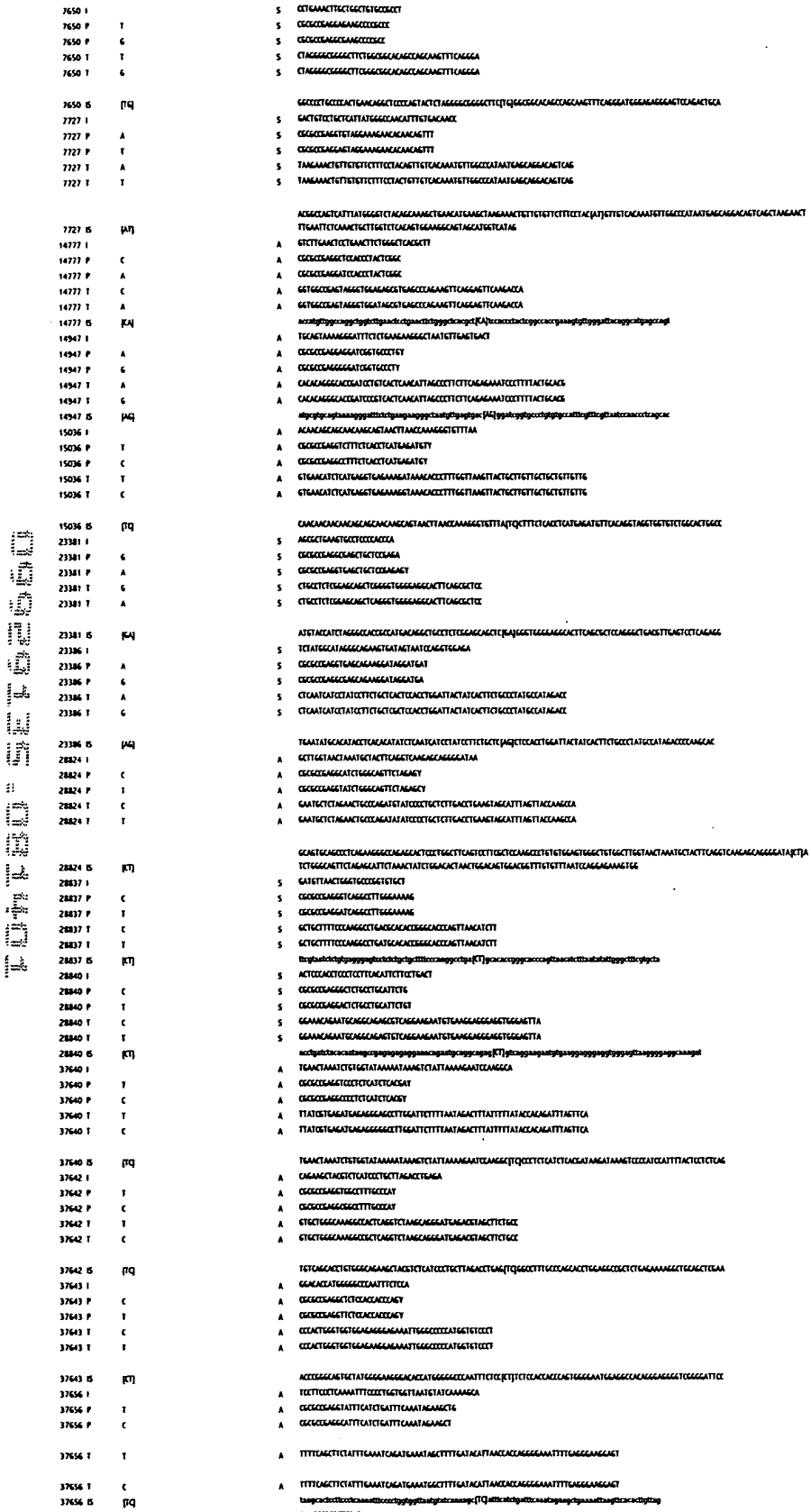


FIGURE 129F



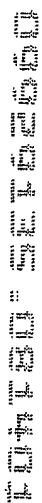


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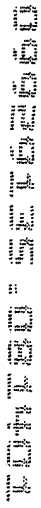
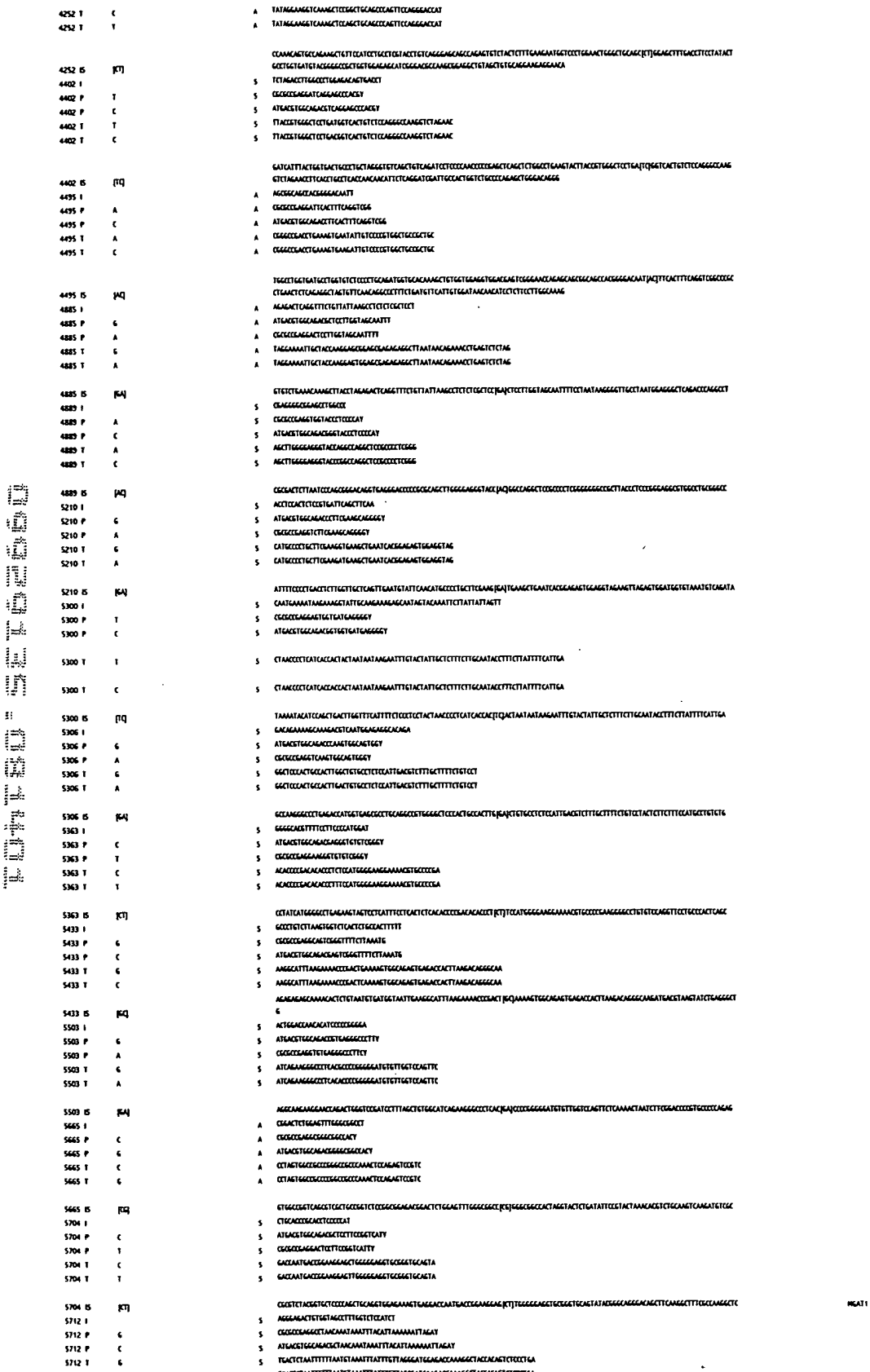
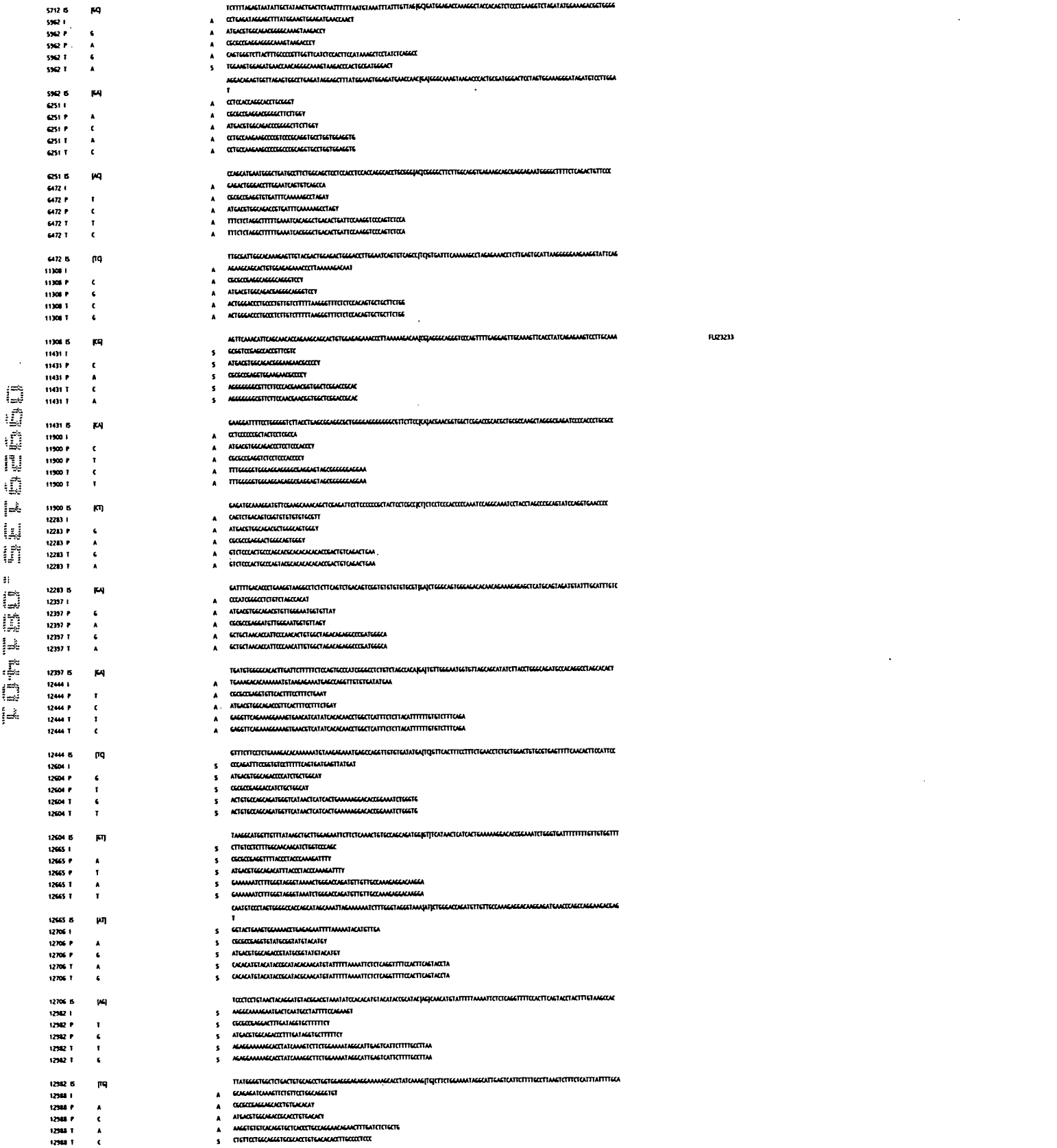


FIGURE 129F





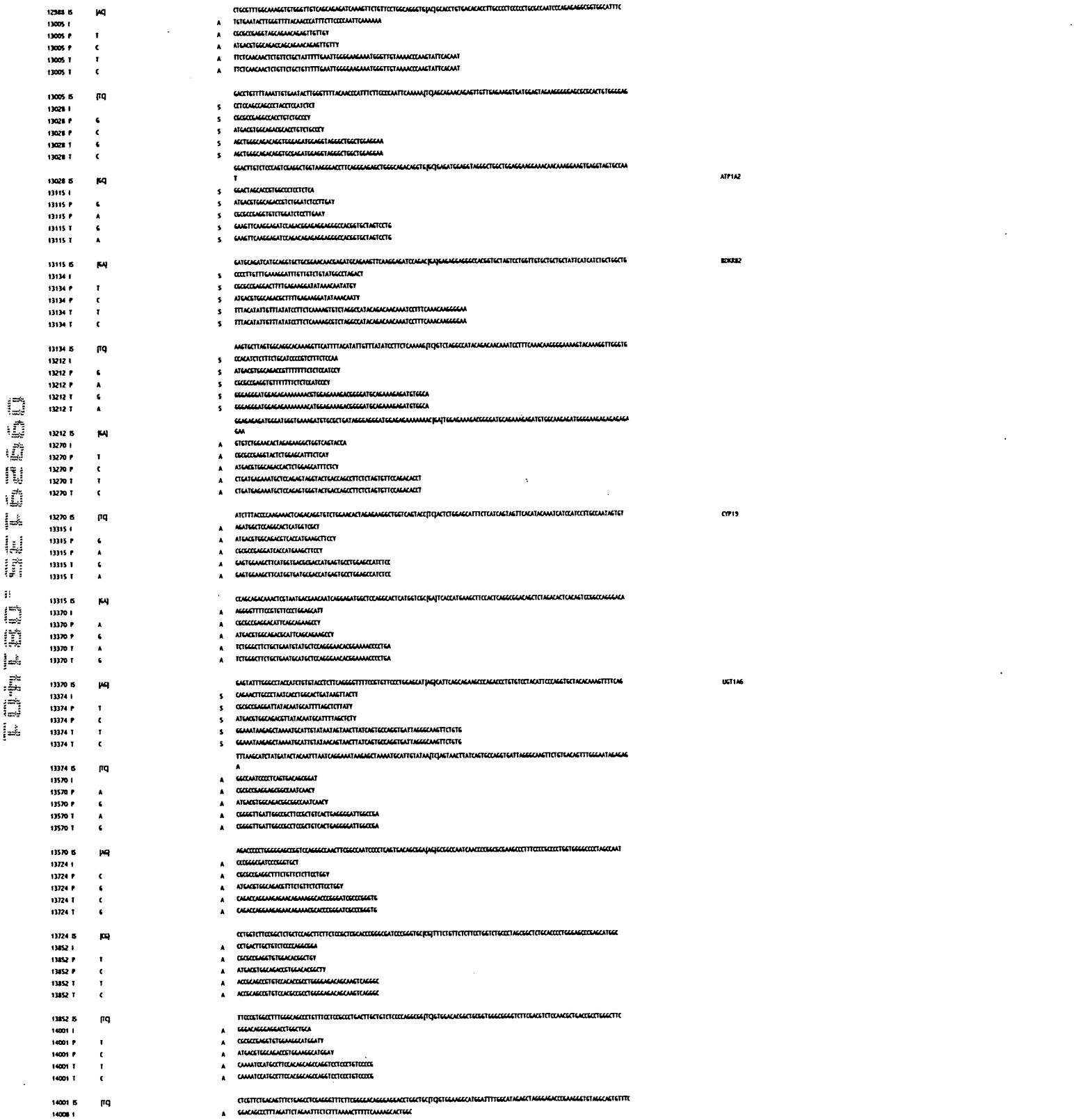


FIGURE 129F

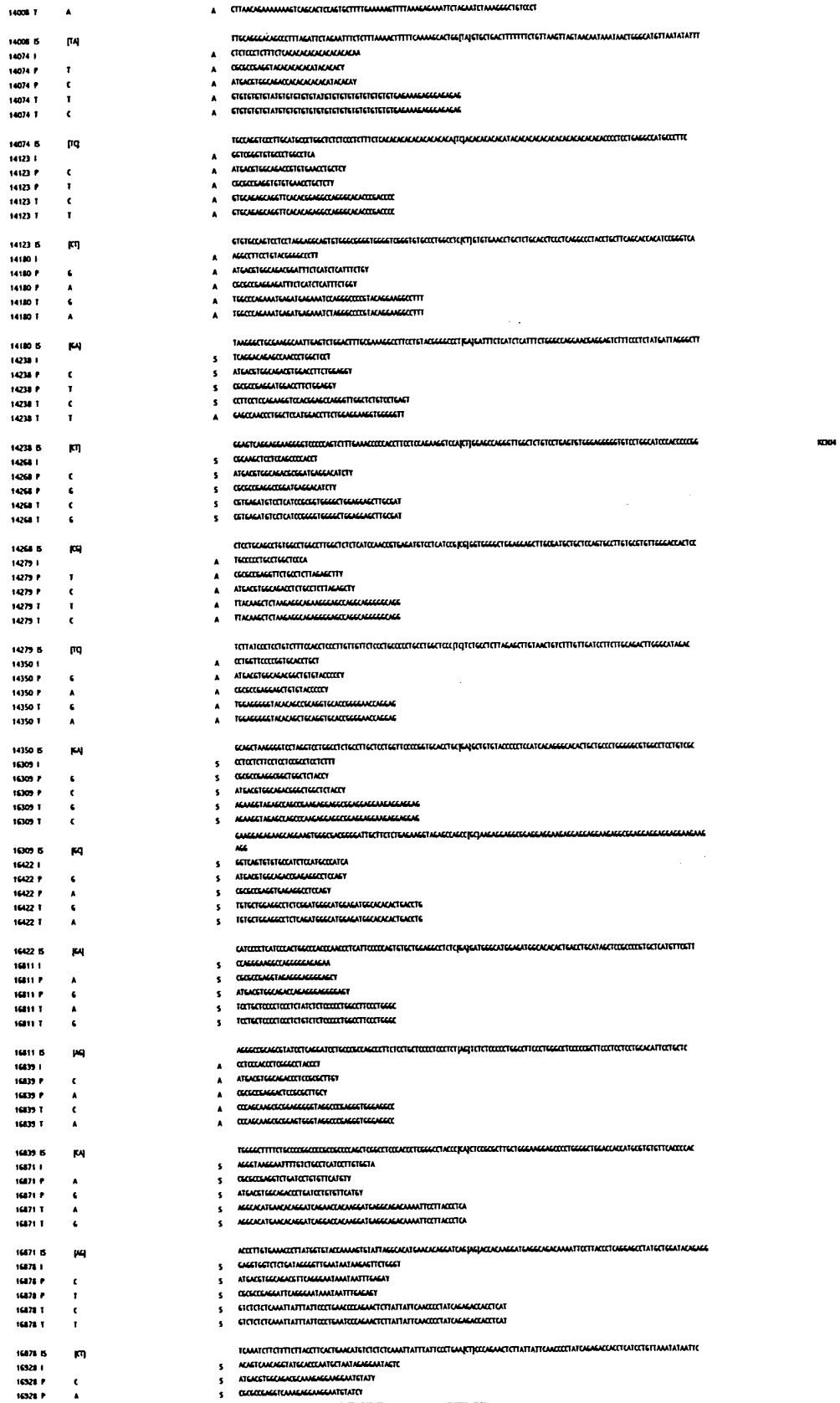


FIGURE 129F

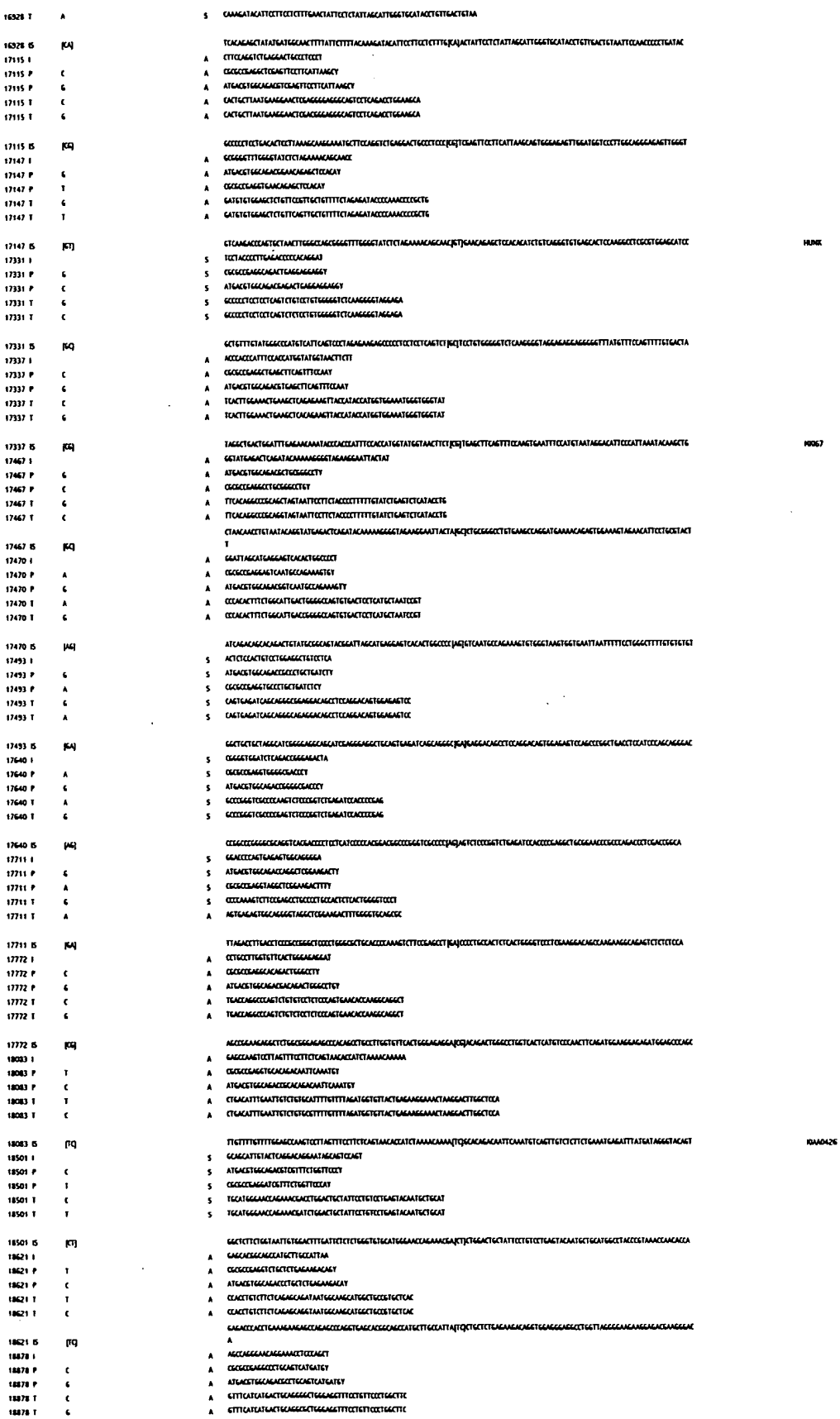


FIGURE 129F

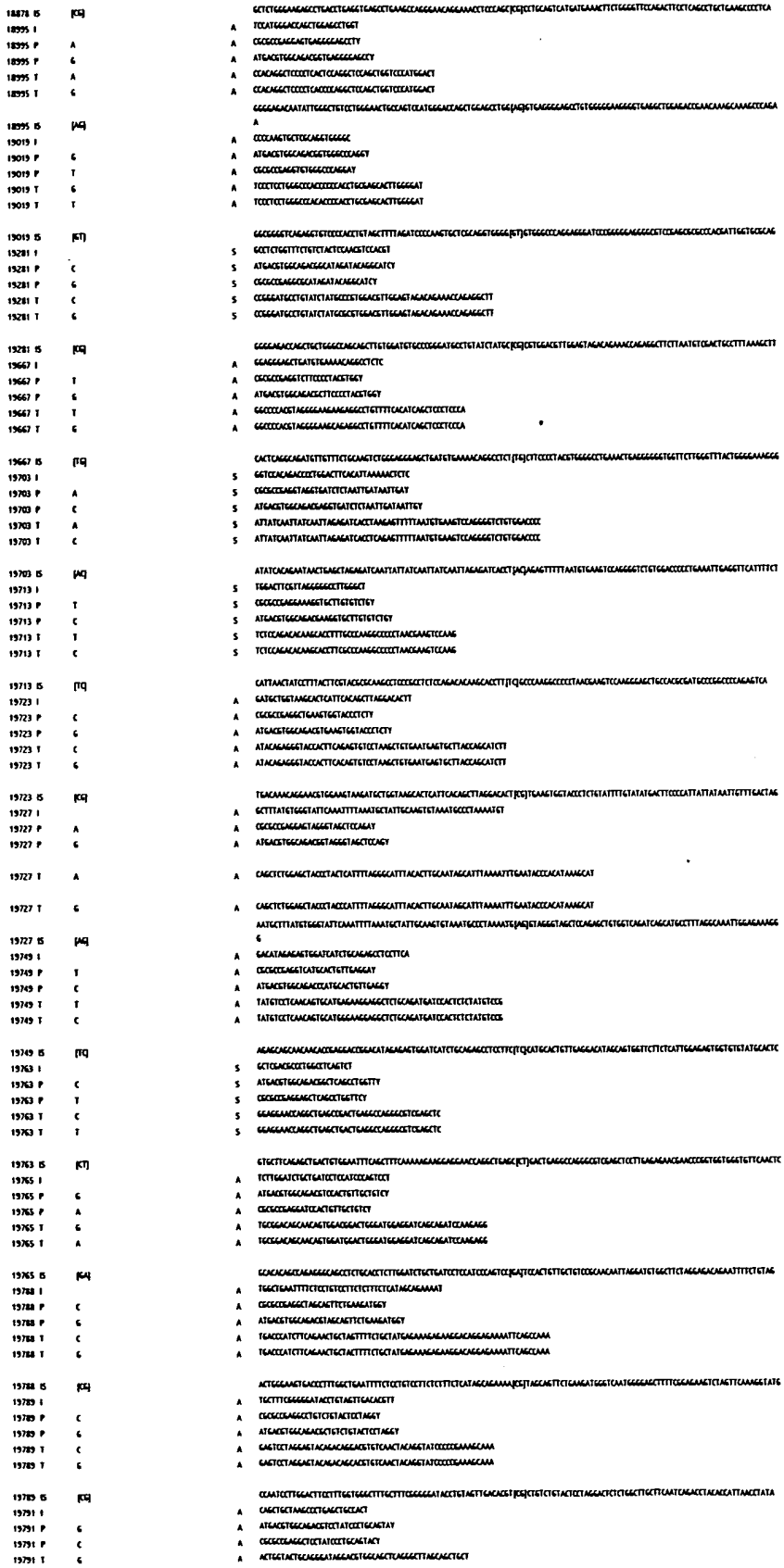


FIGURE 129F

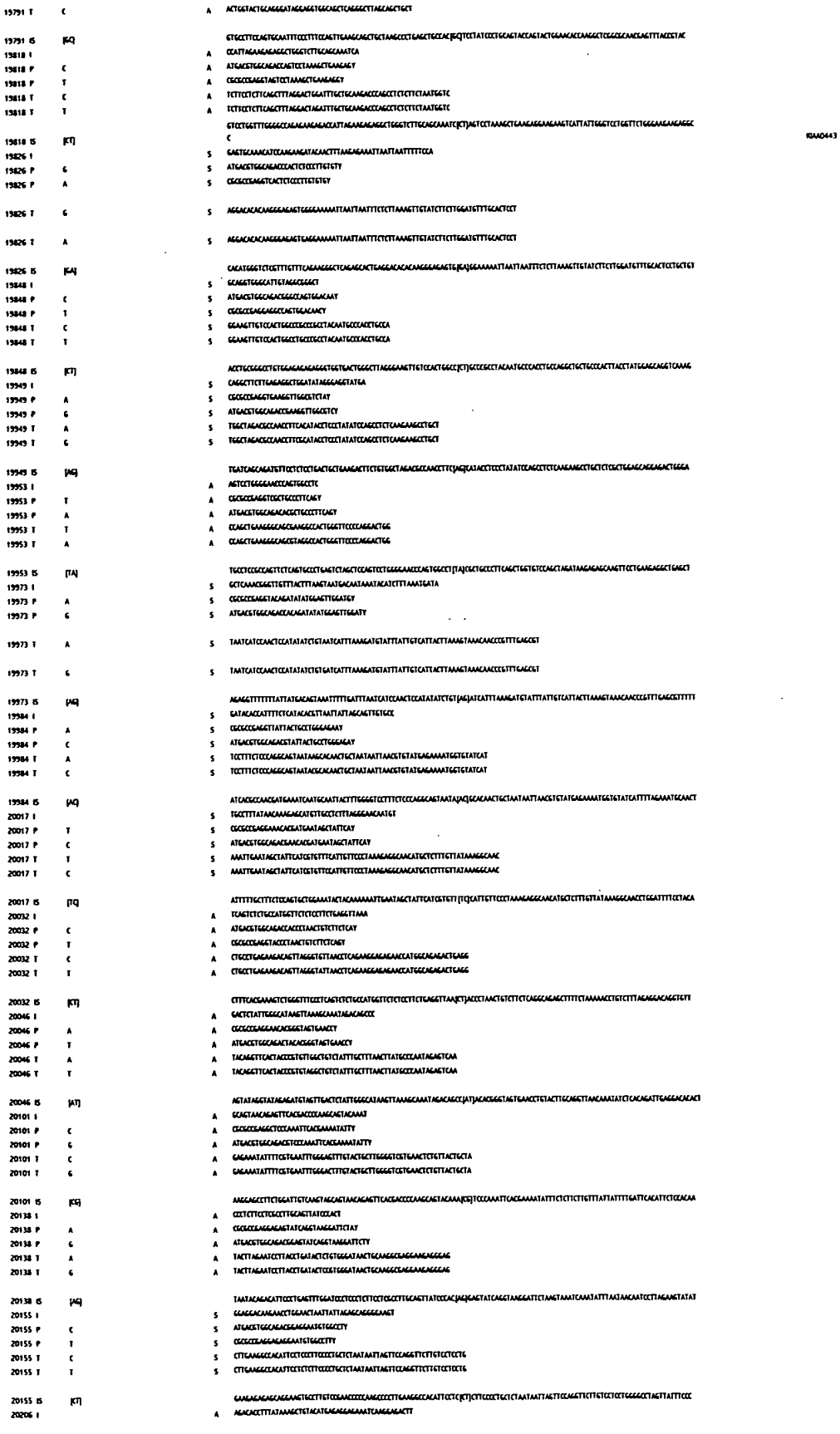
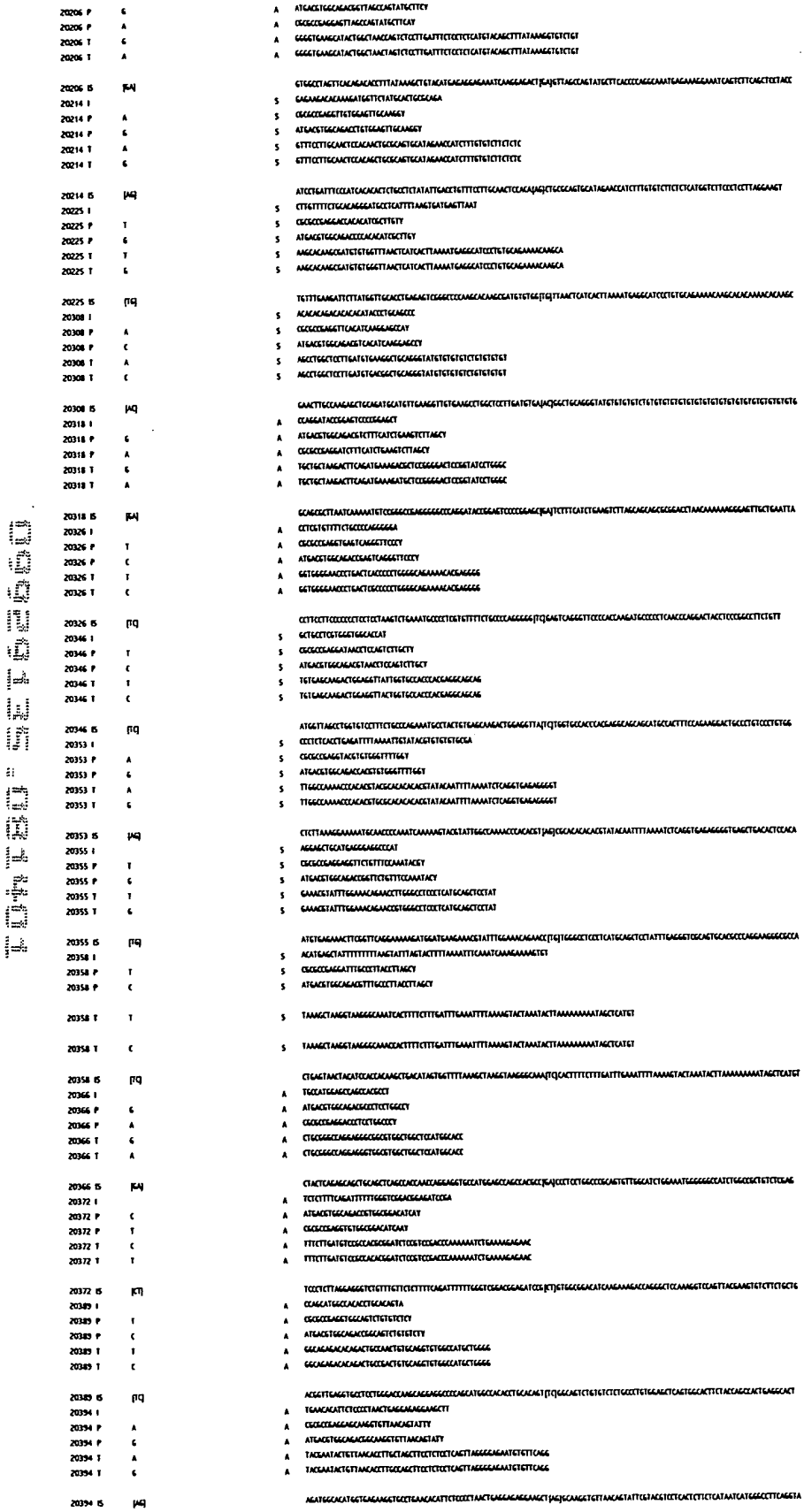


FIGURE 129F



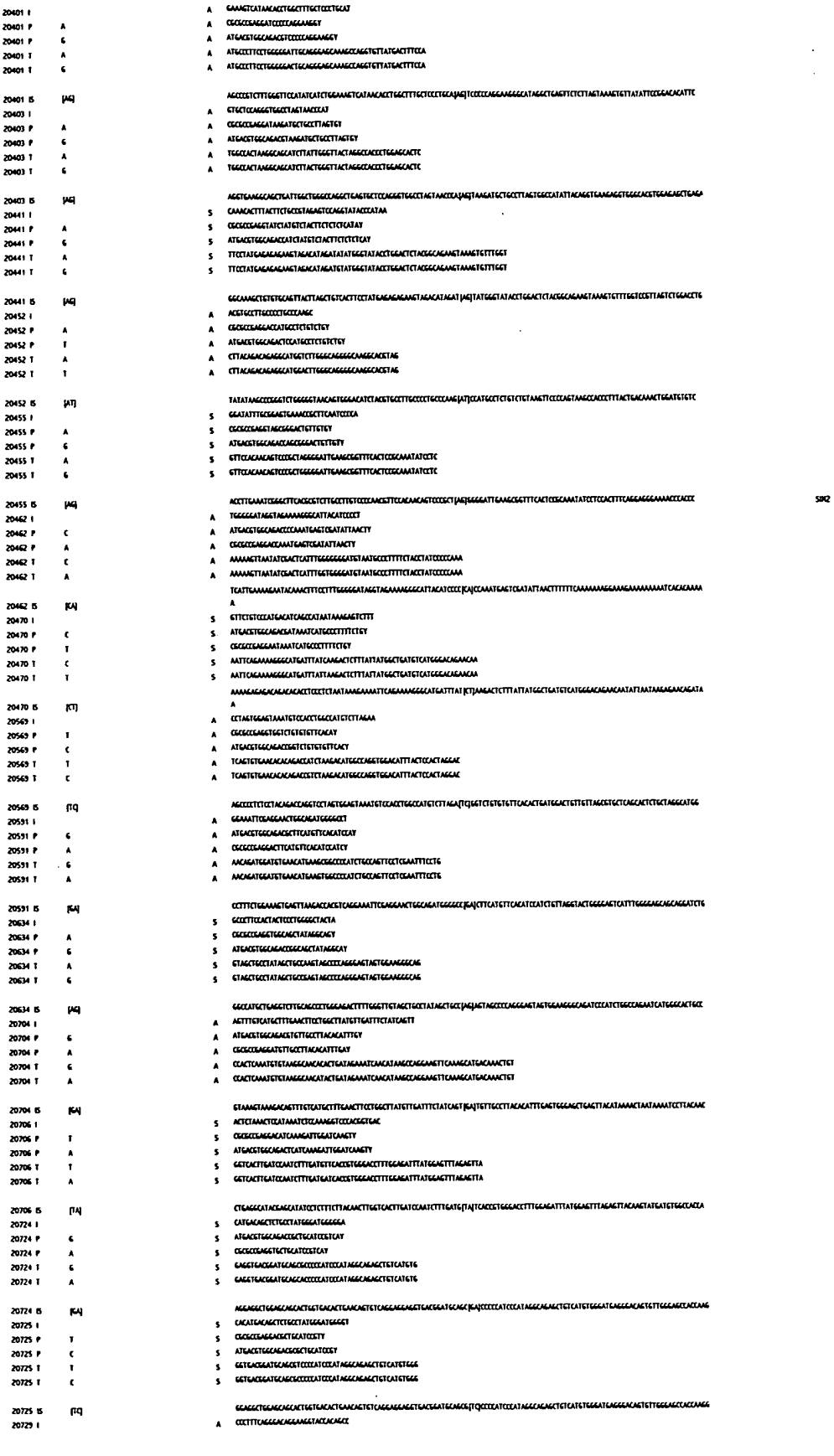
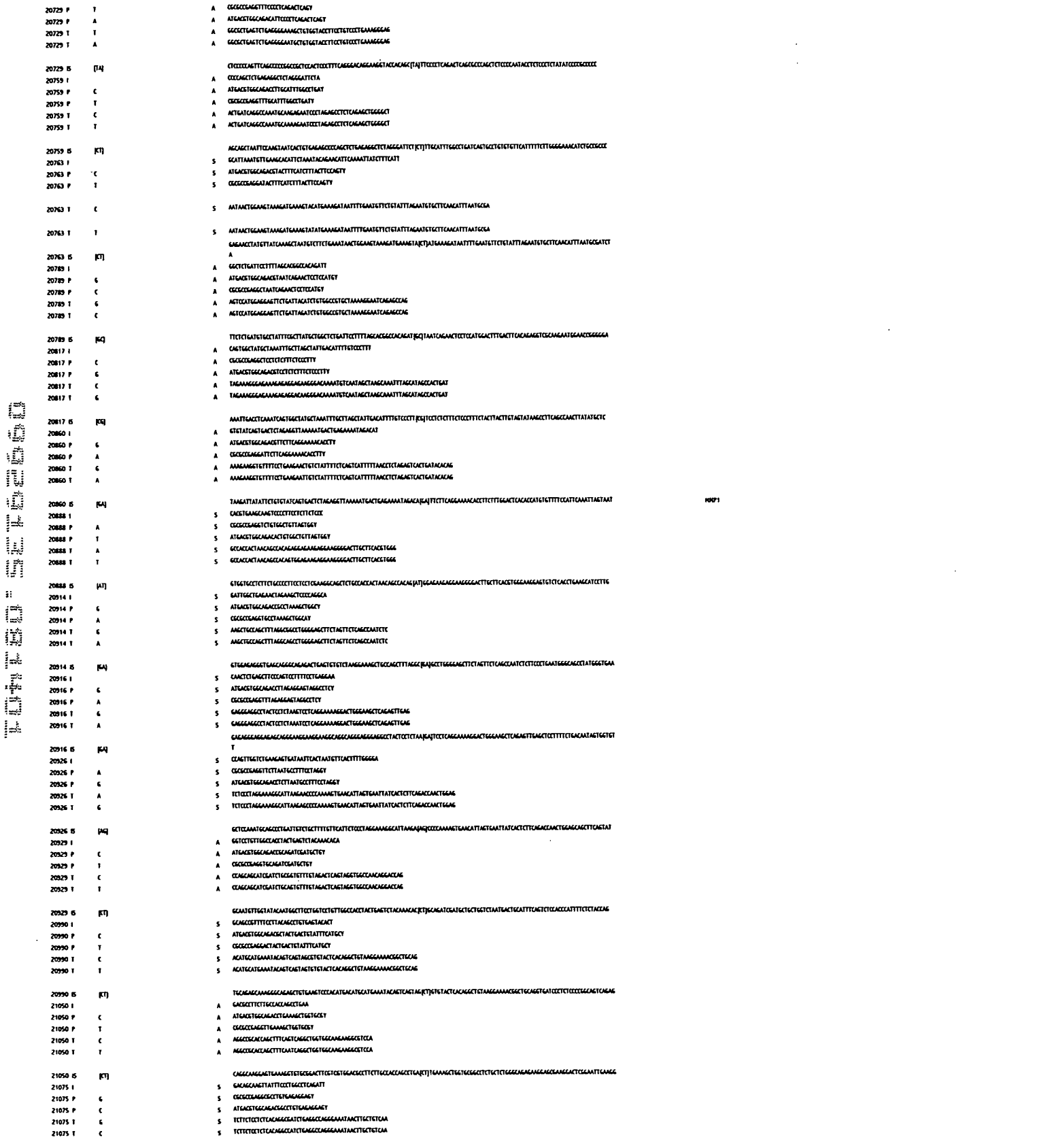


FIGURE 129F



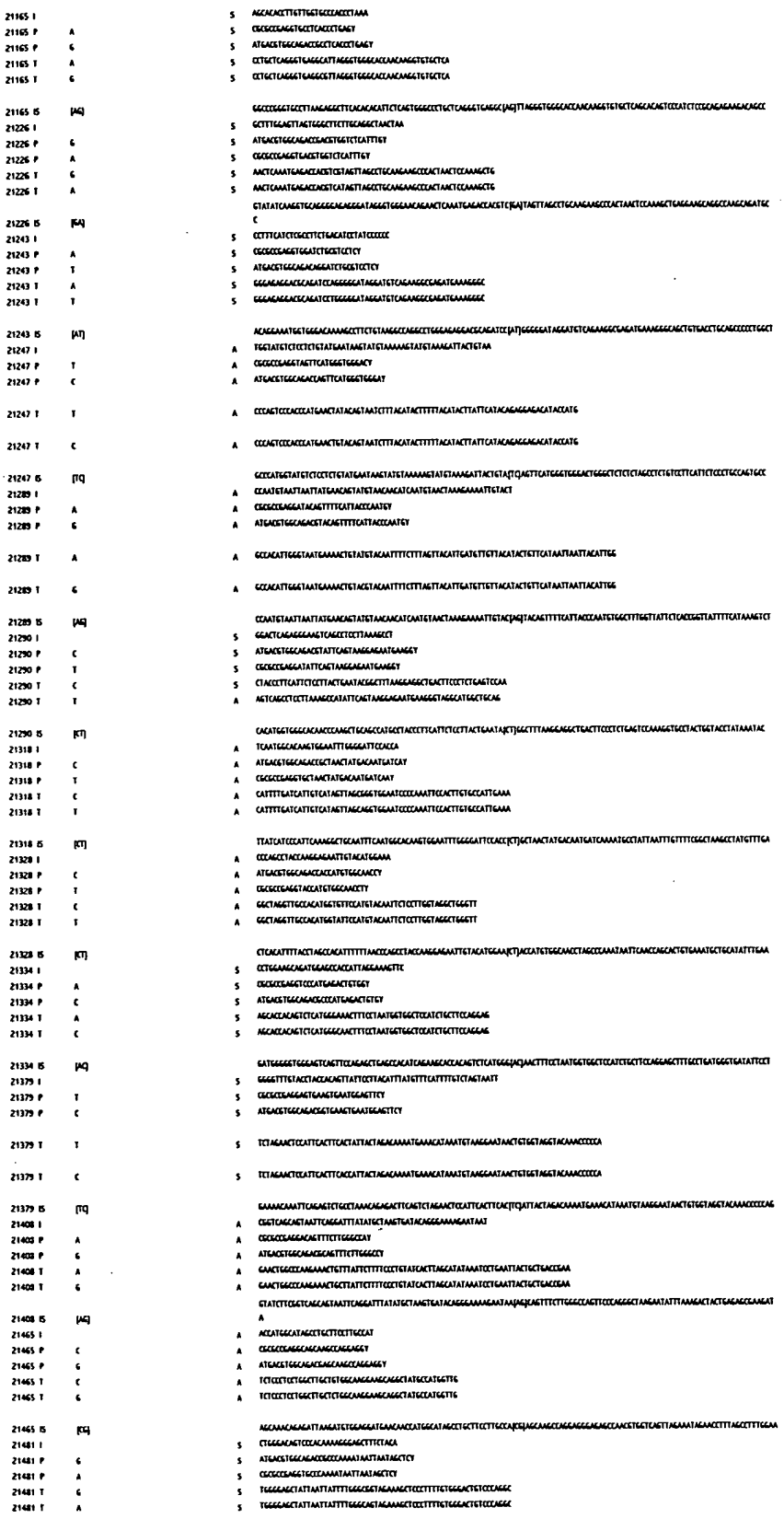
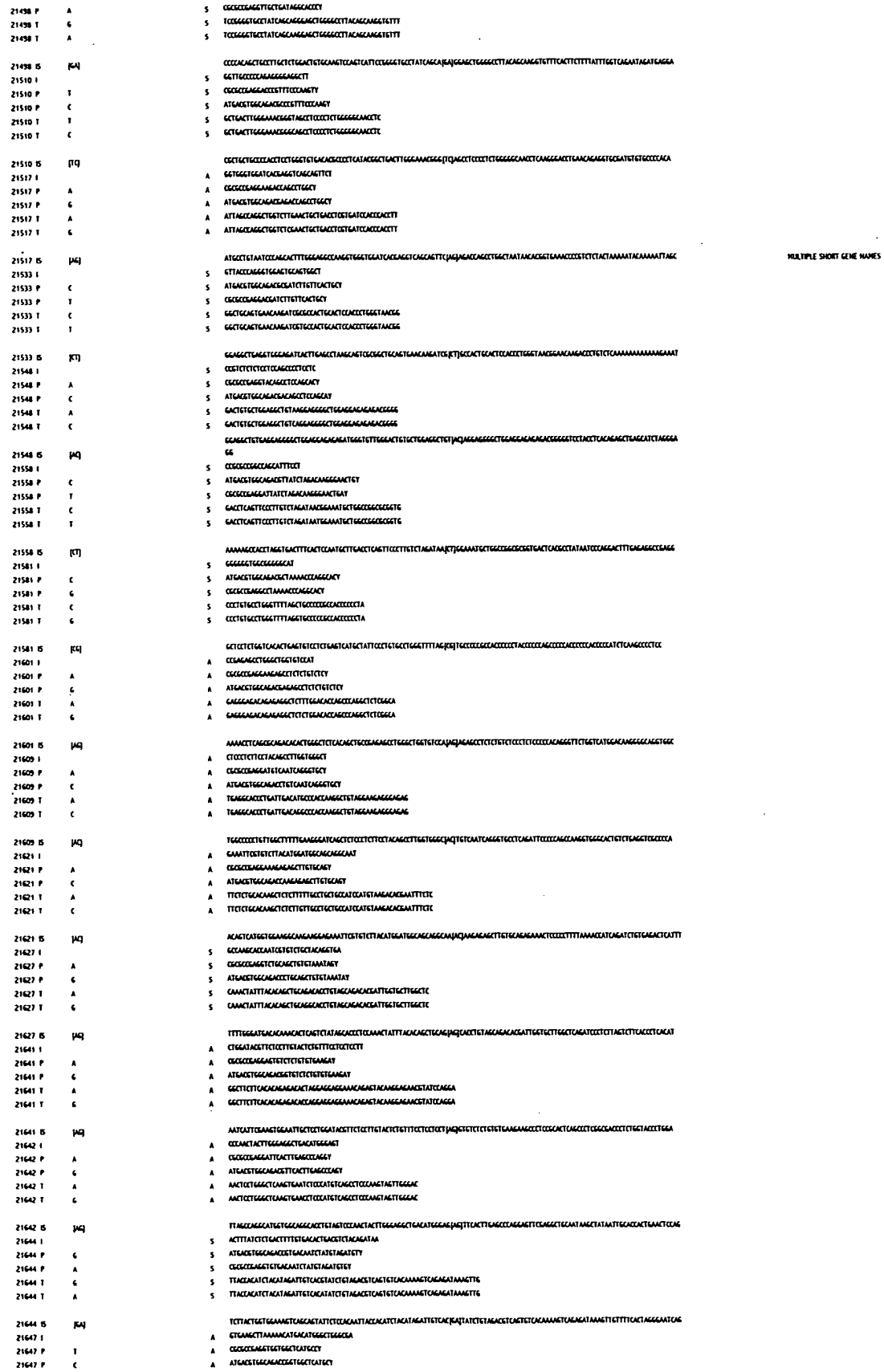


FIGURE 129F



Submitted Under 37 CFR 1.821(c) Computer Readable Form (CRF) Submitted Herewith

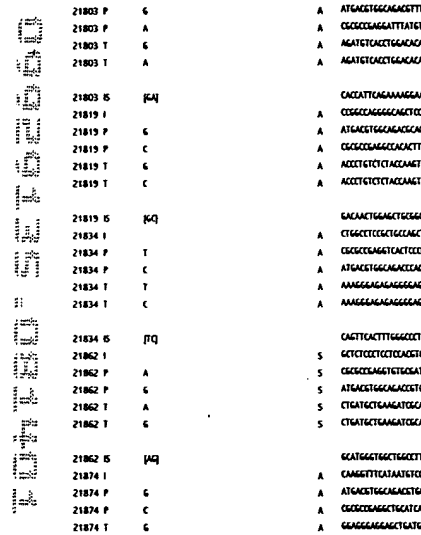
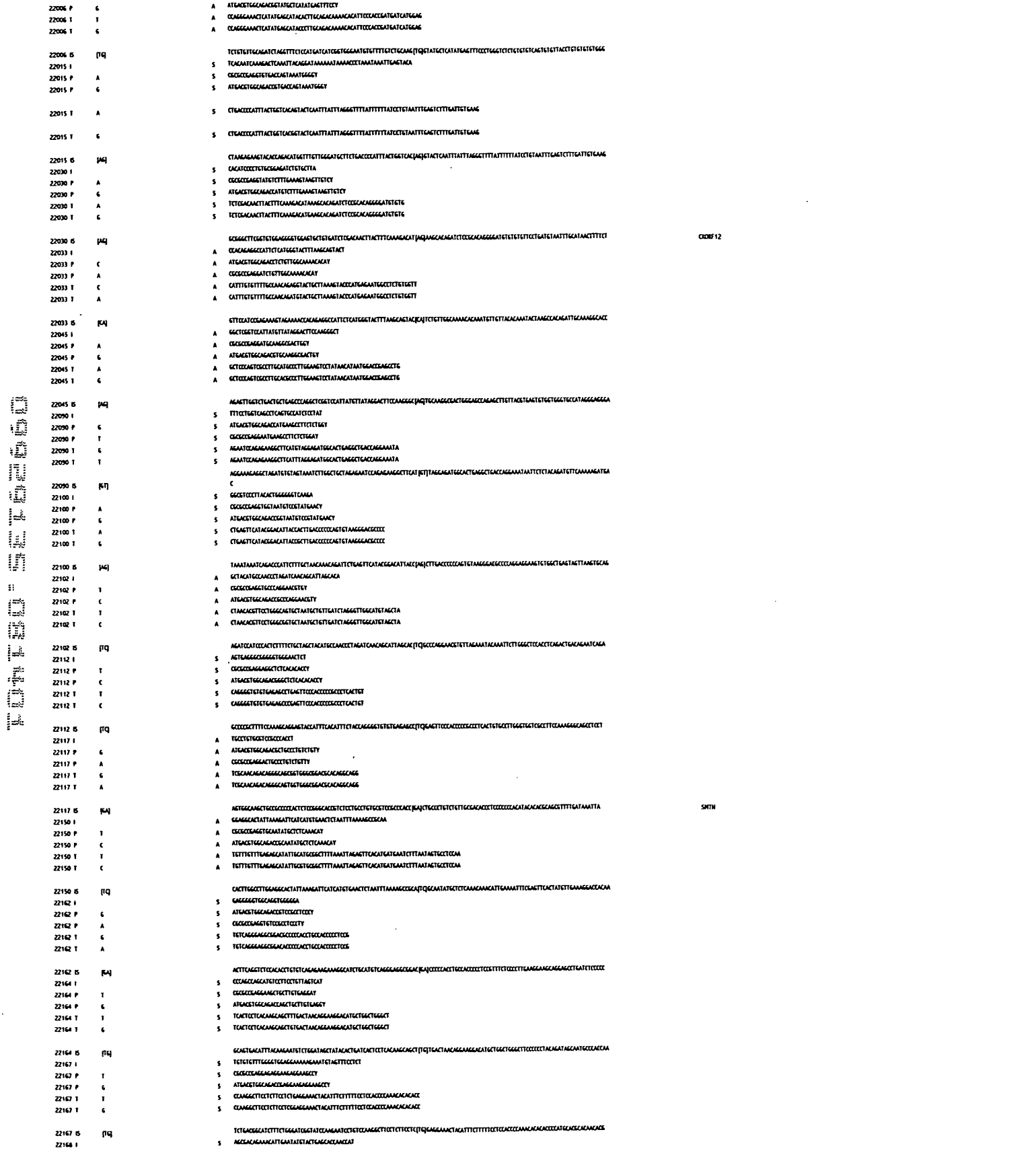


FIGURE 129F



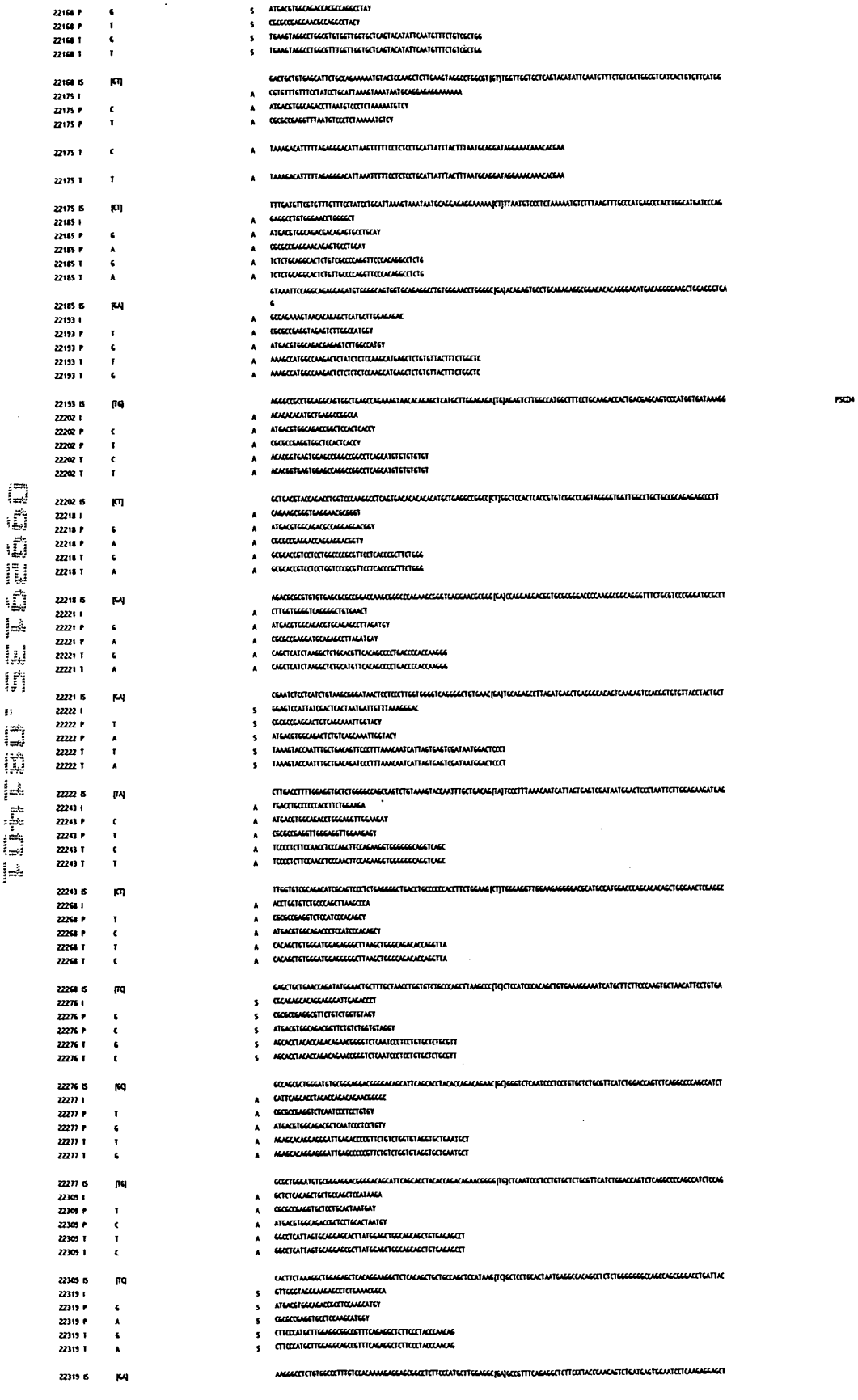
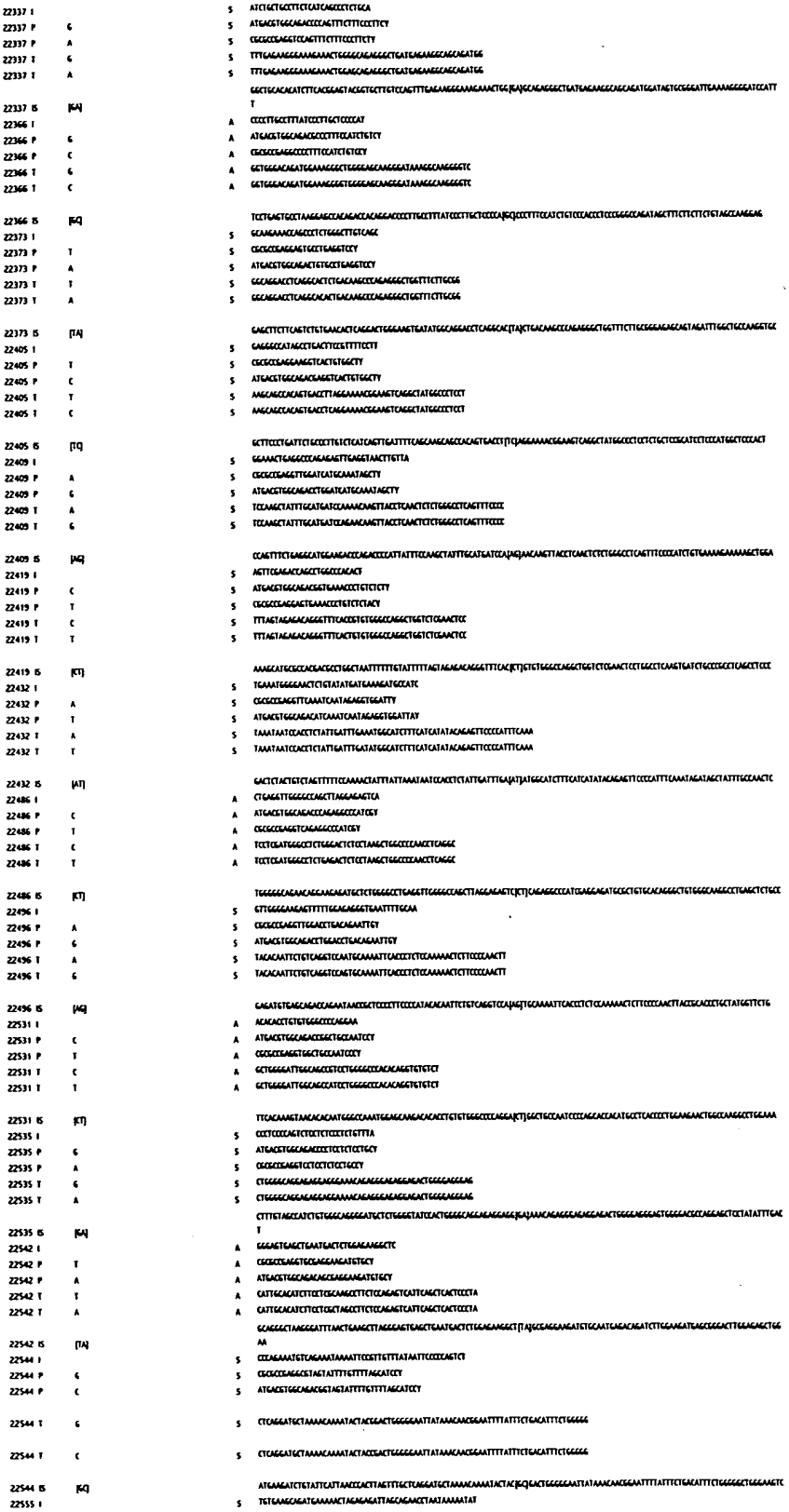


FIGURE 129F



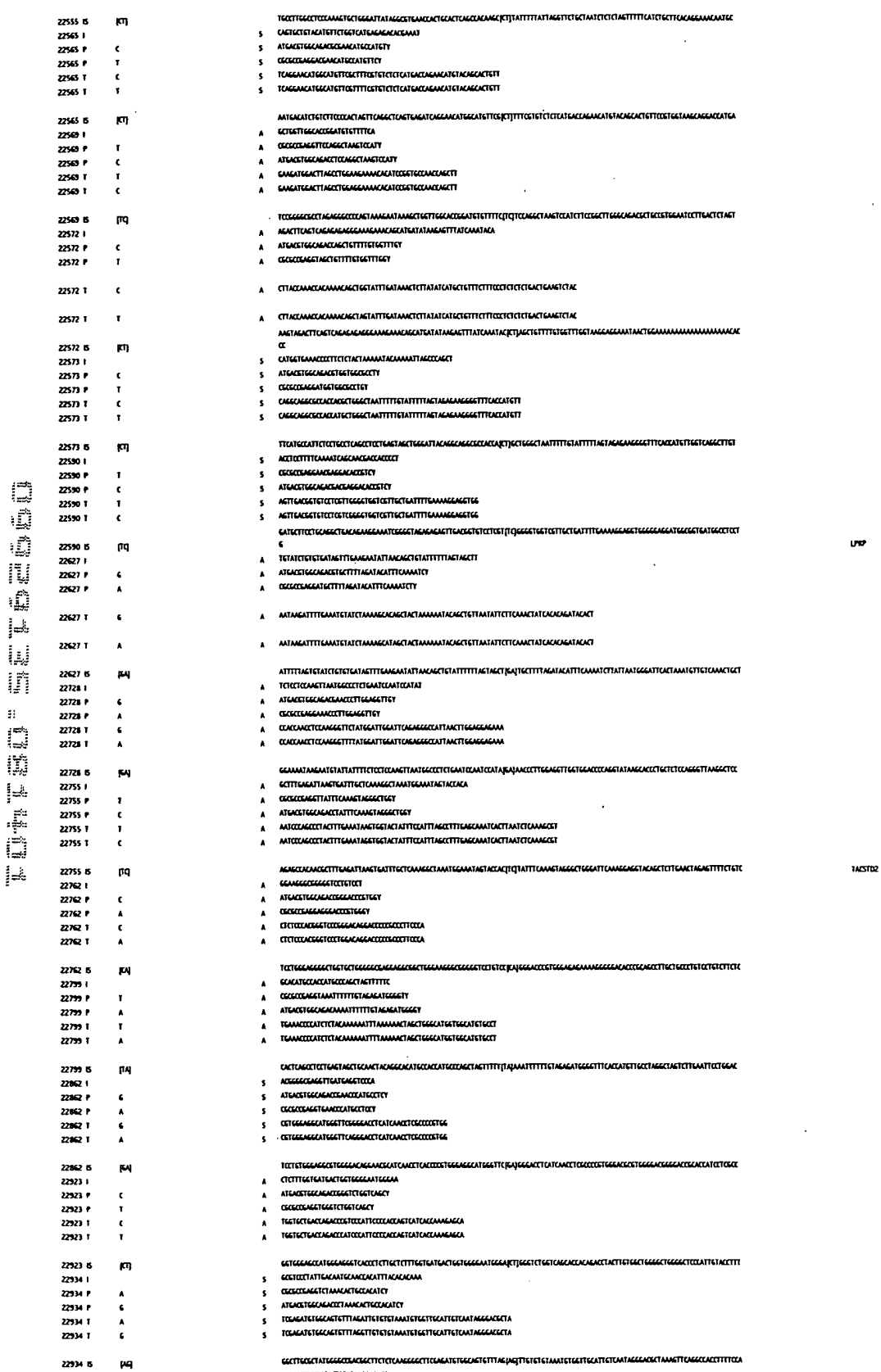


FIGURE 129F

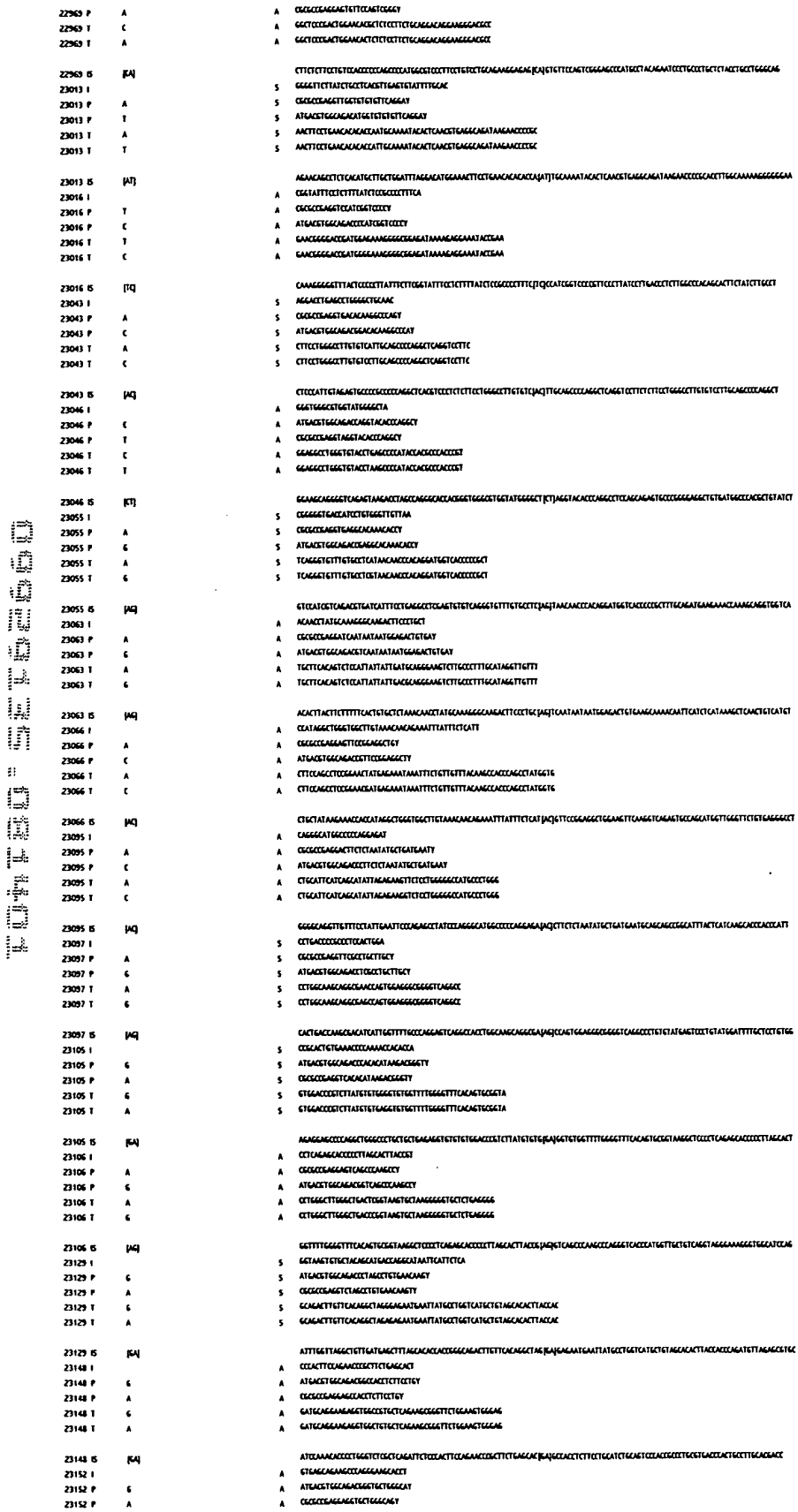


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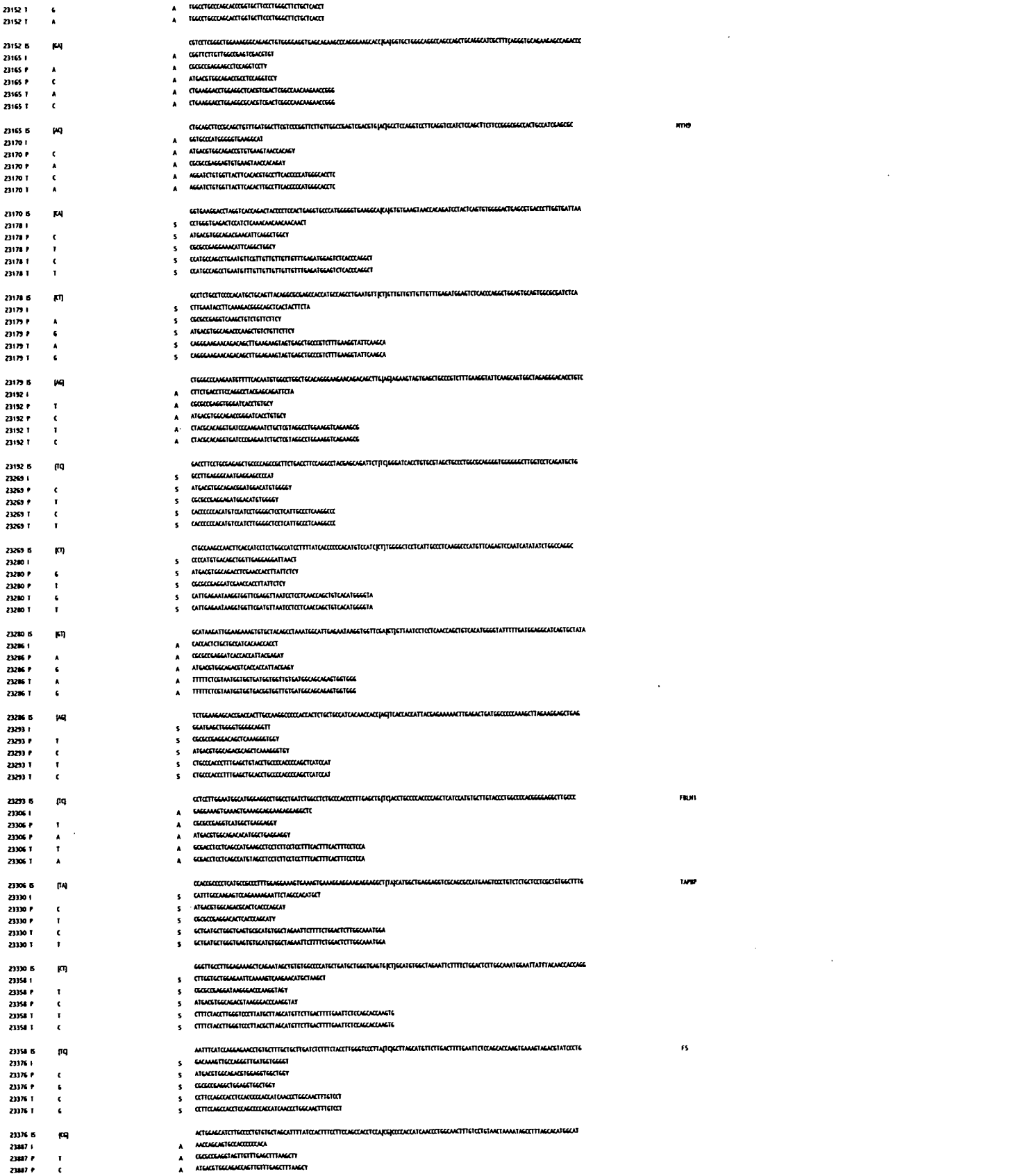


FIGURE 129F

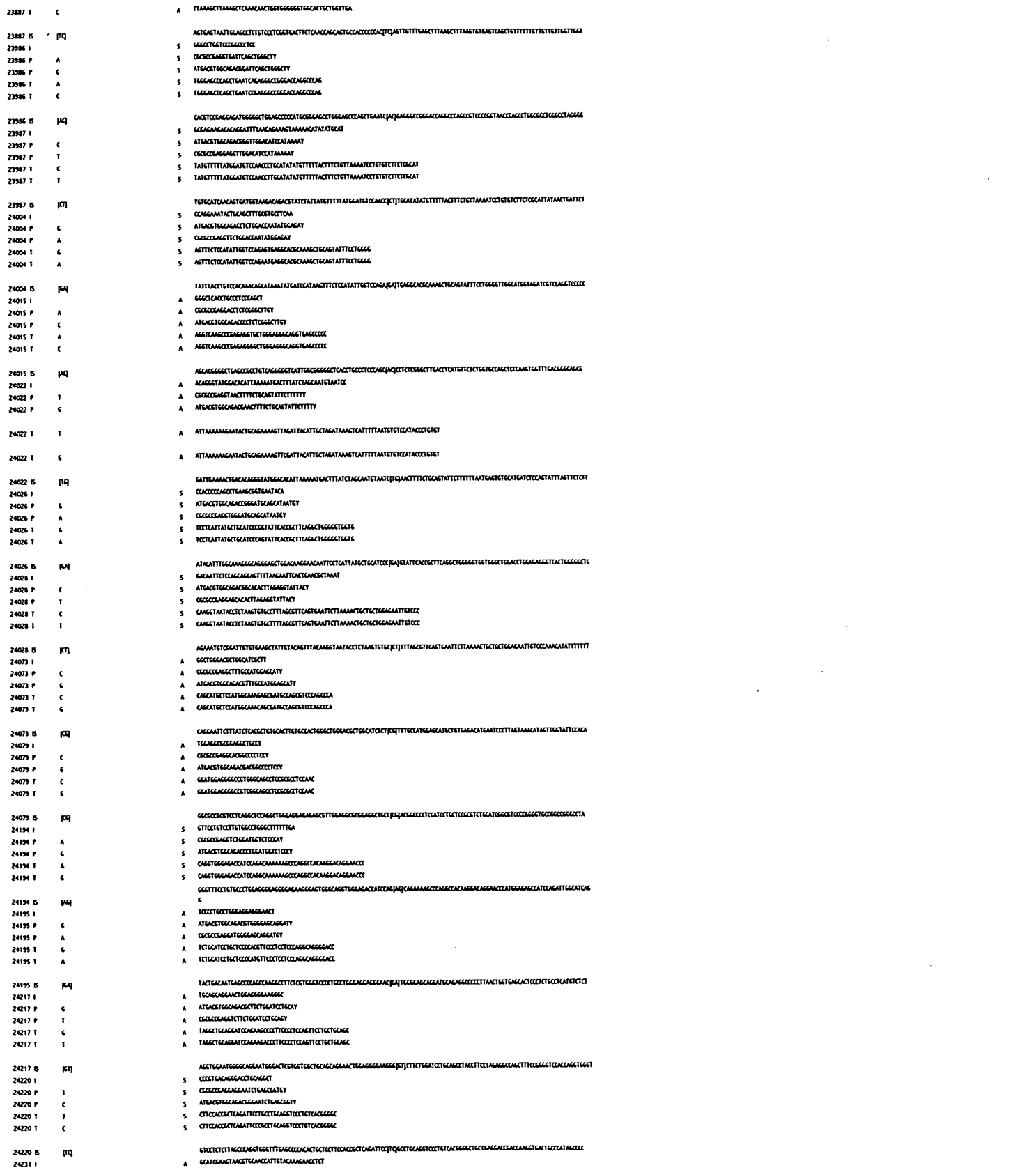
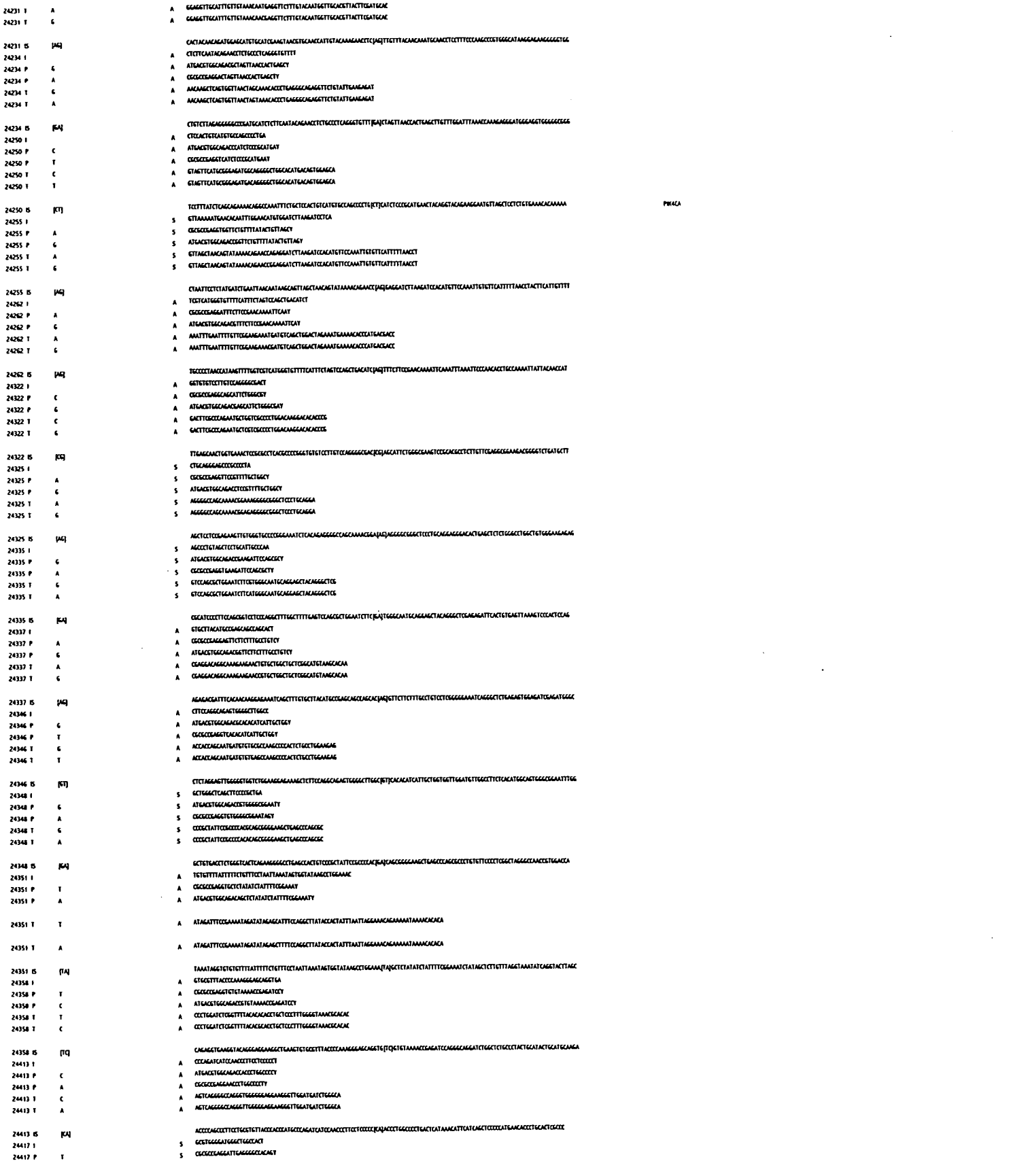


FIGURE 129F



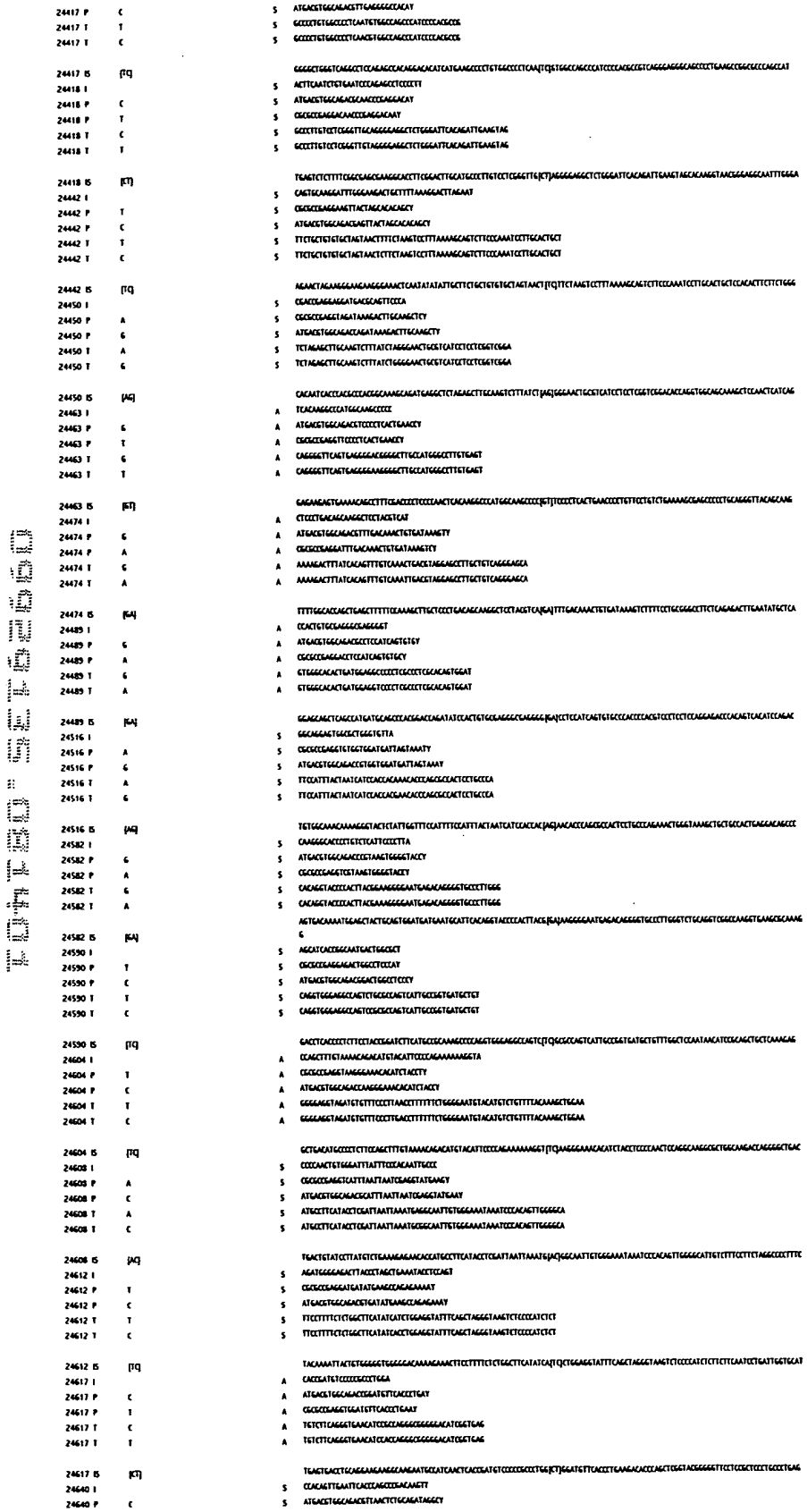


FIGURE 129F

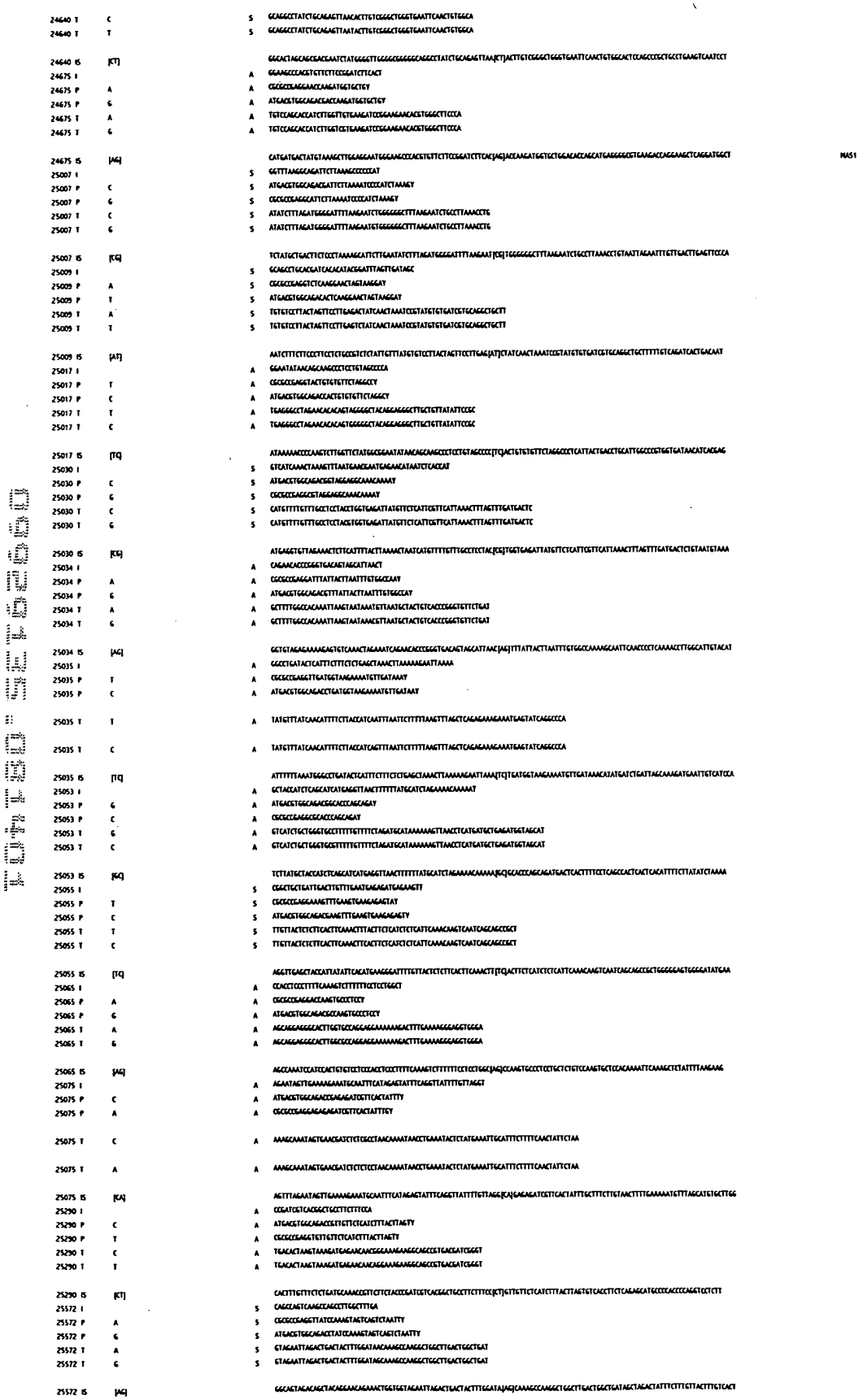


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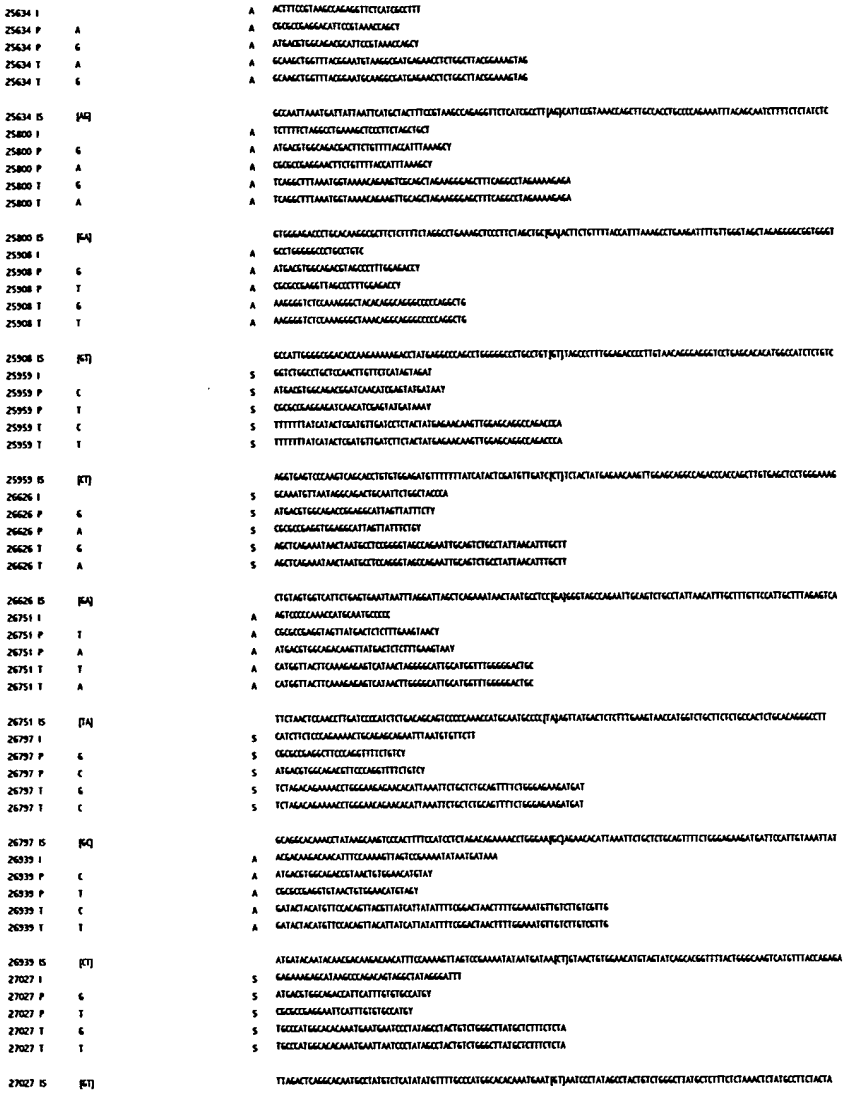


FIGURE 129F

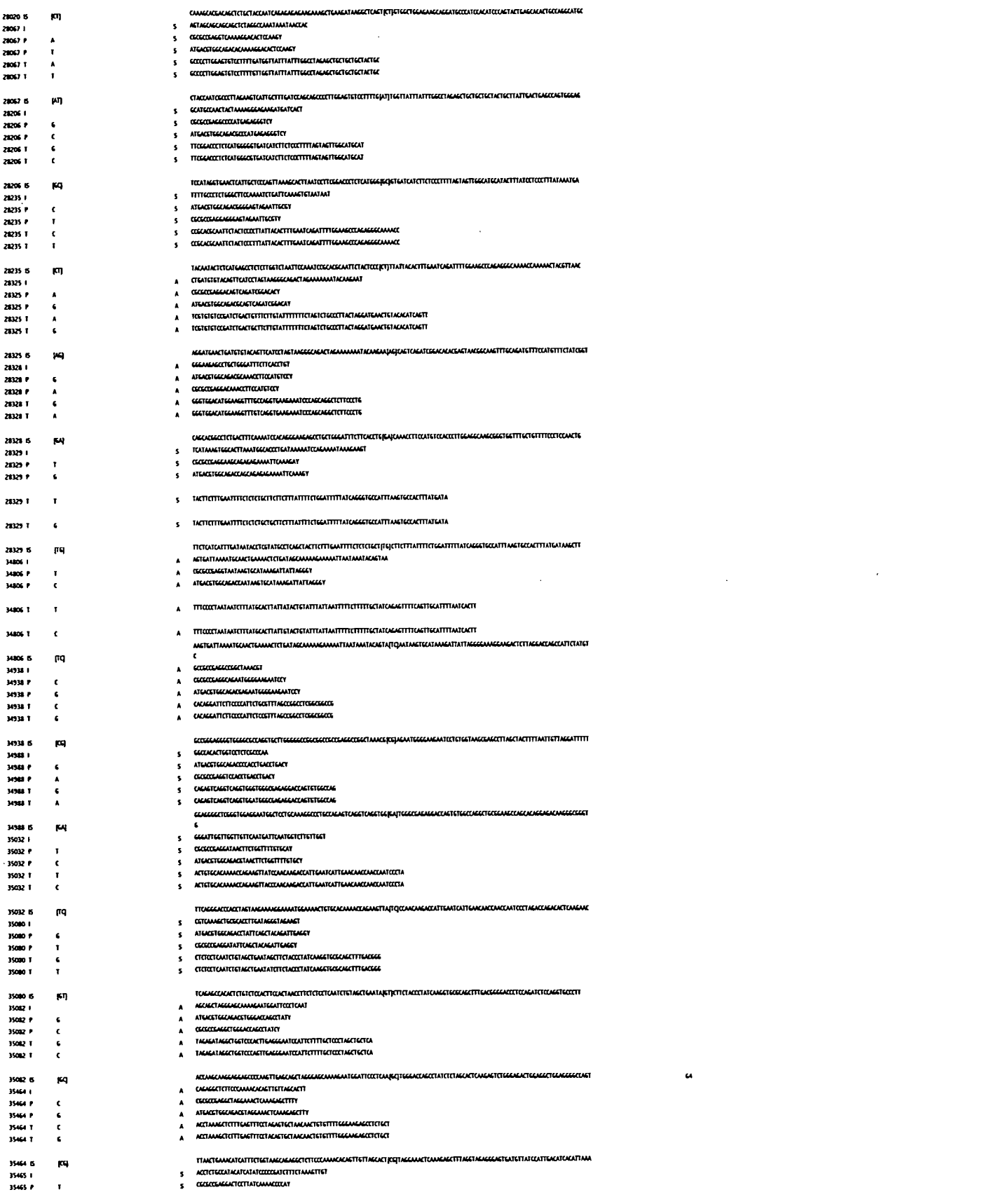


FIGURE 129F

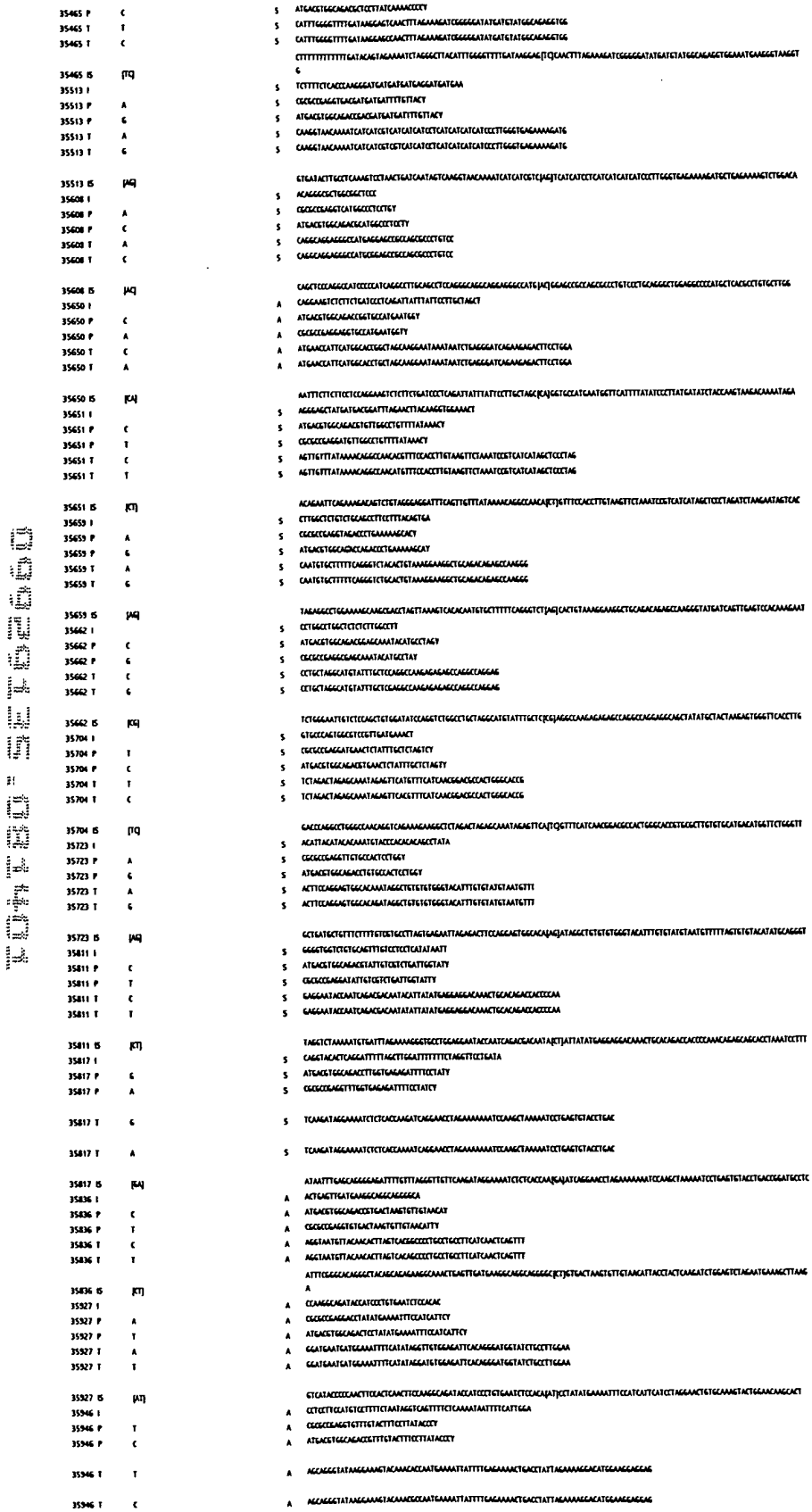
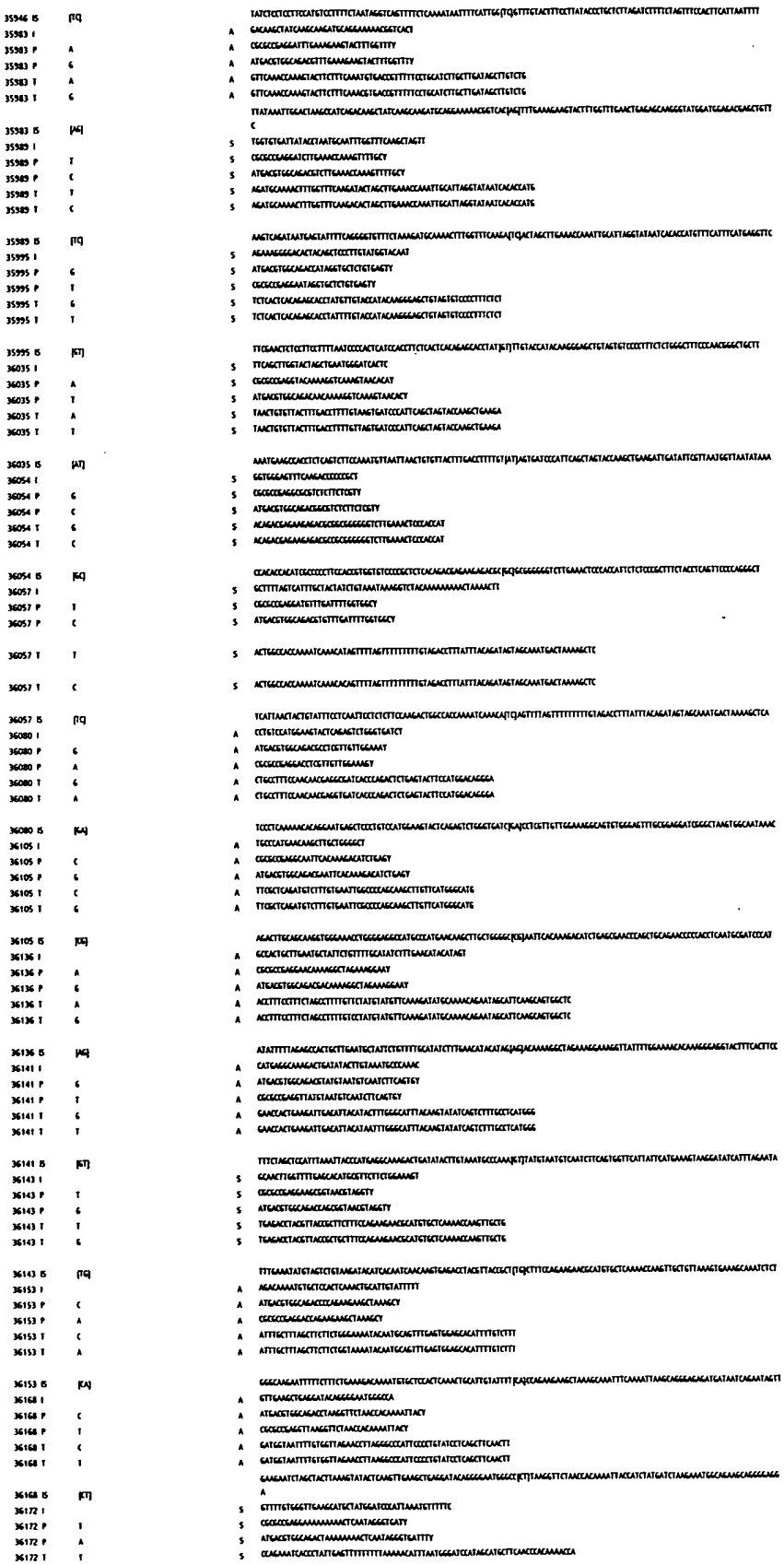
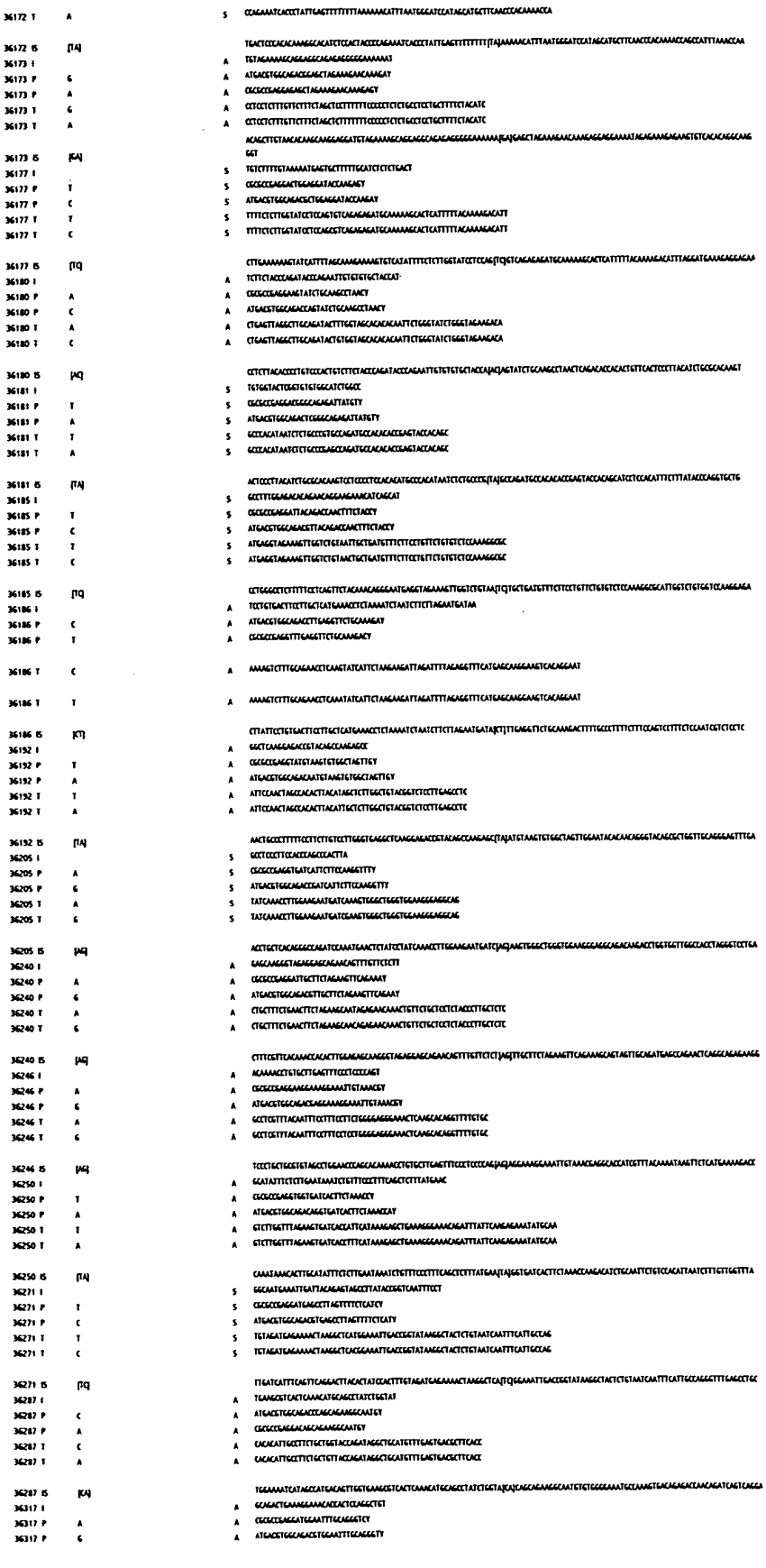


FIGURE 129F





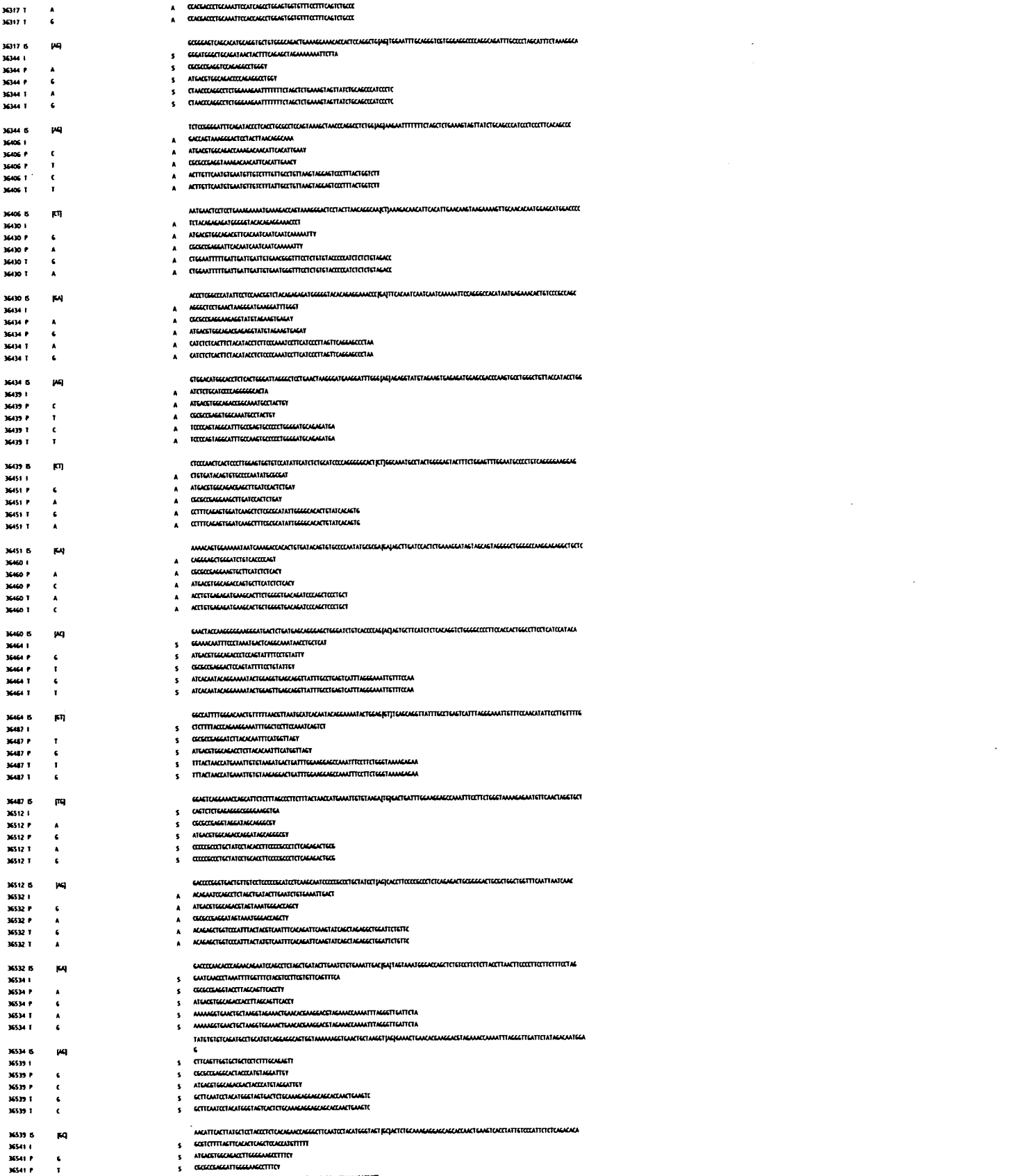


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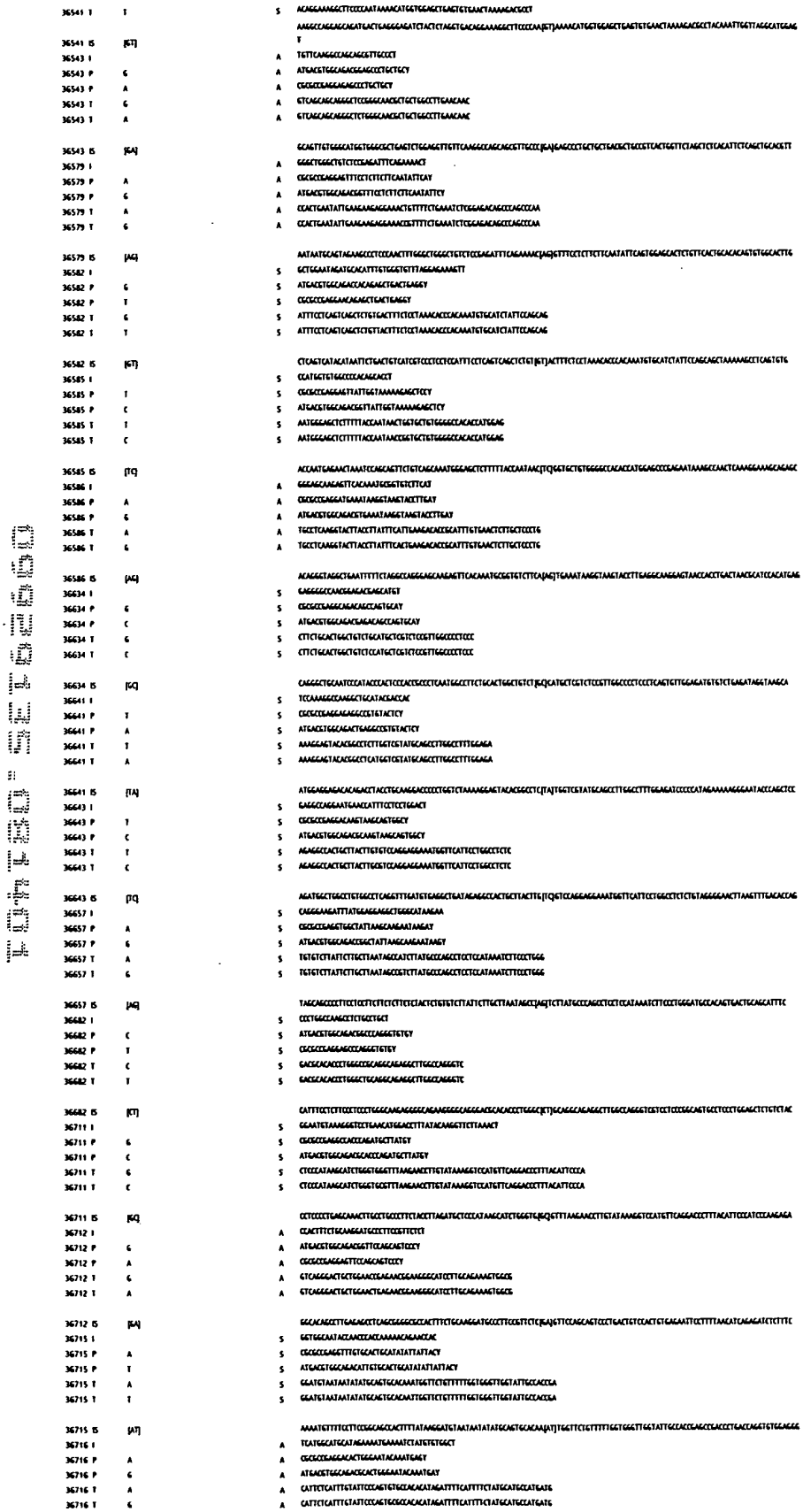




FIGURE 129F

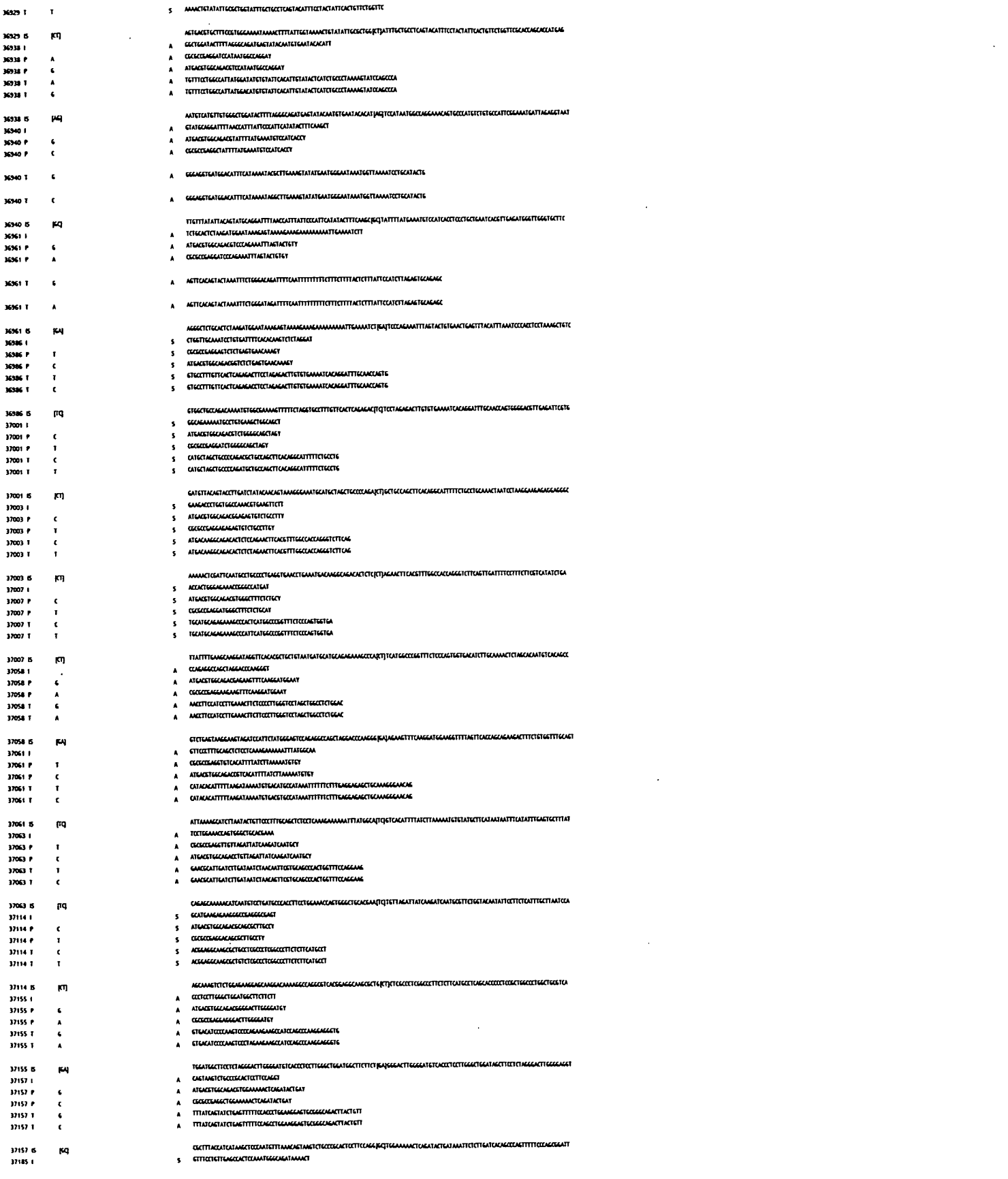


FIGURE 129F

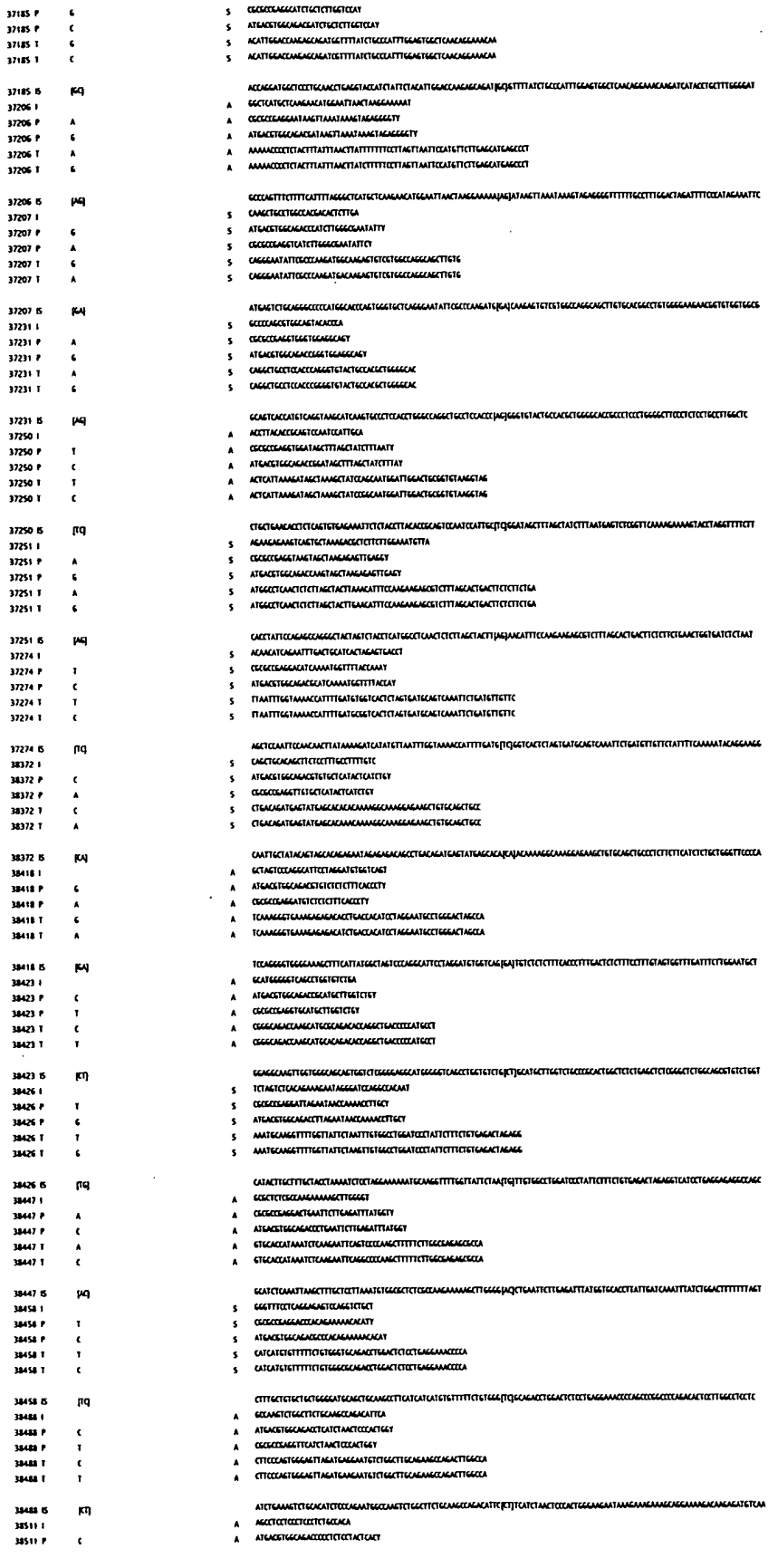
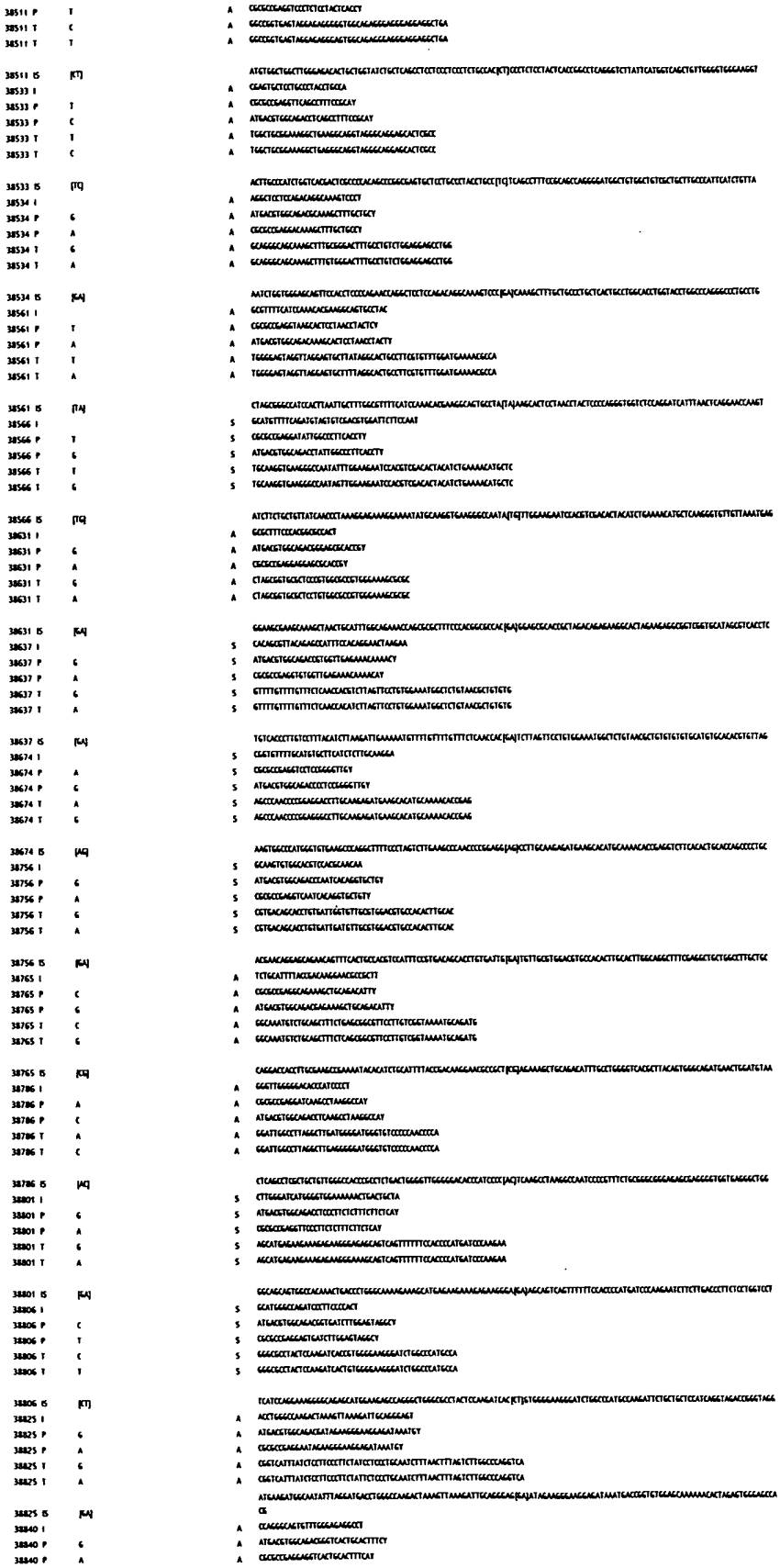
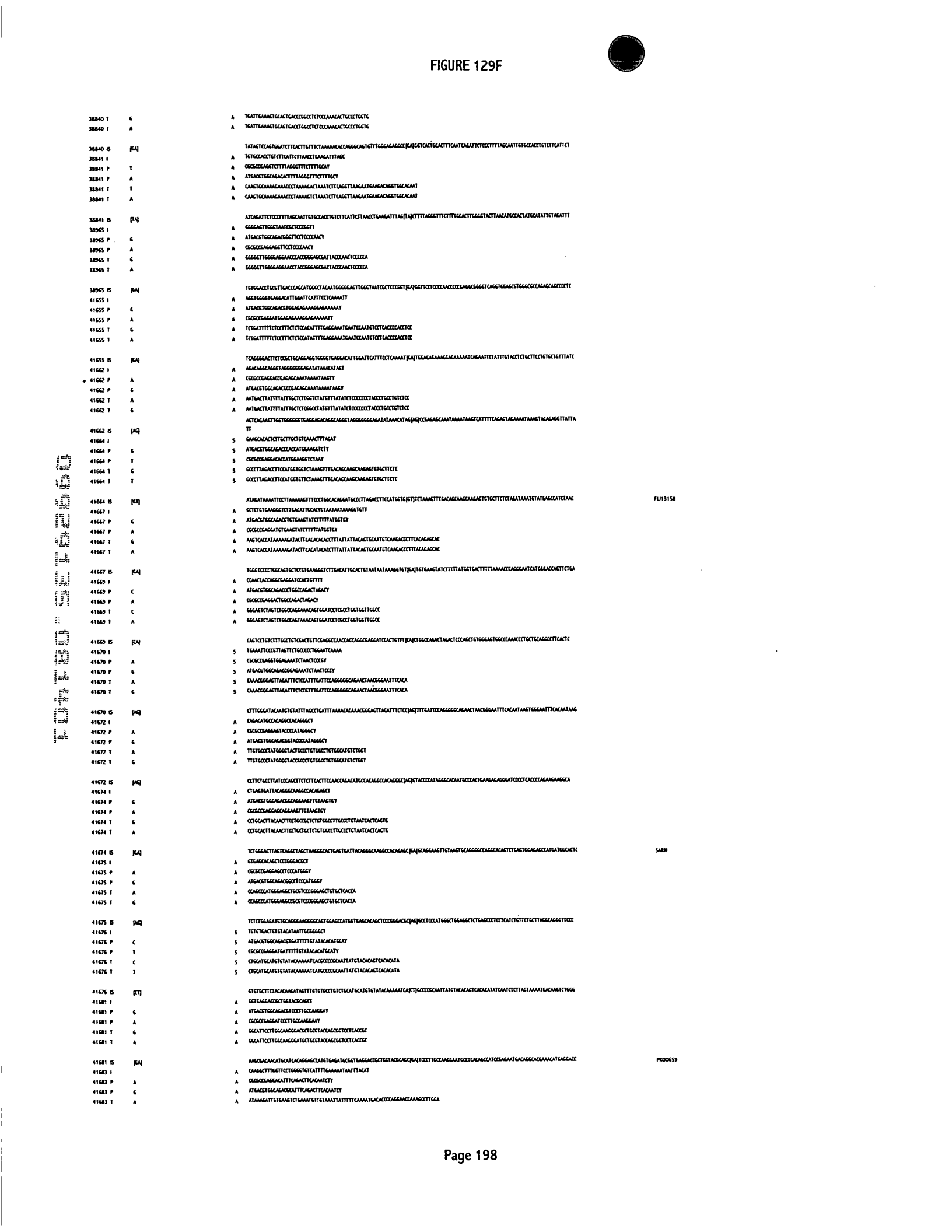


FIGURE 129F





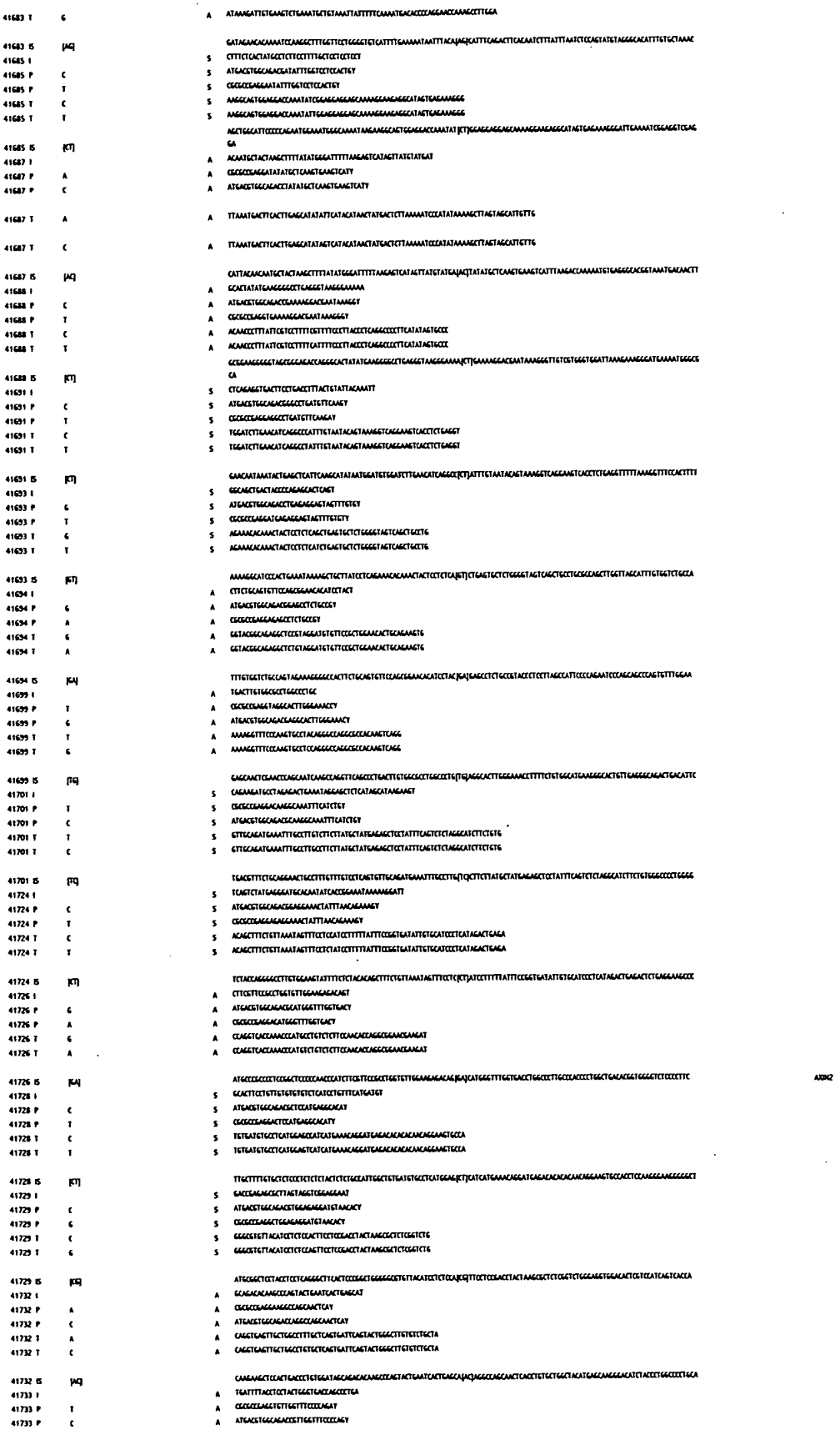


FIGURE 129F

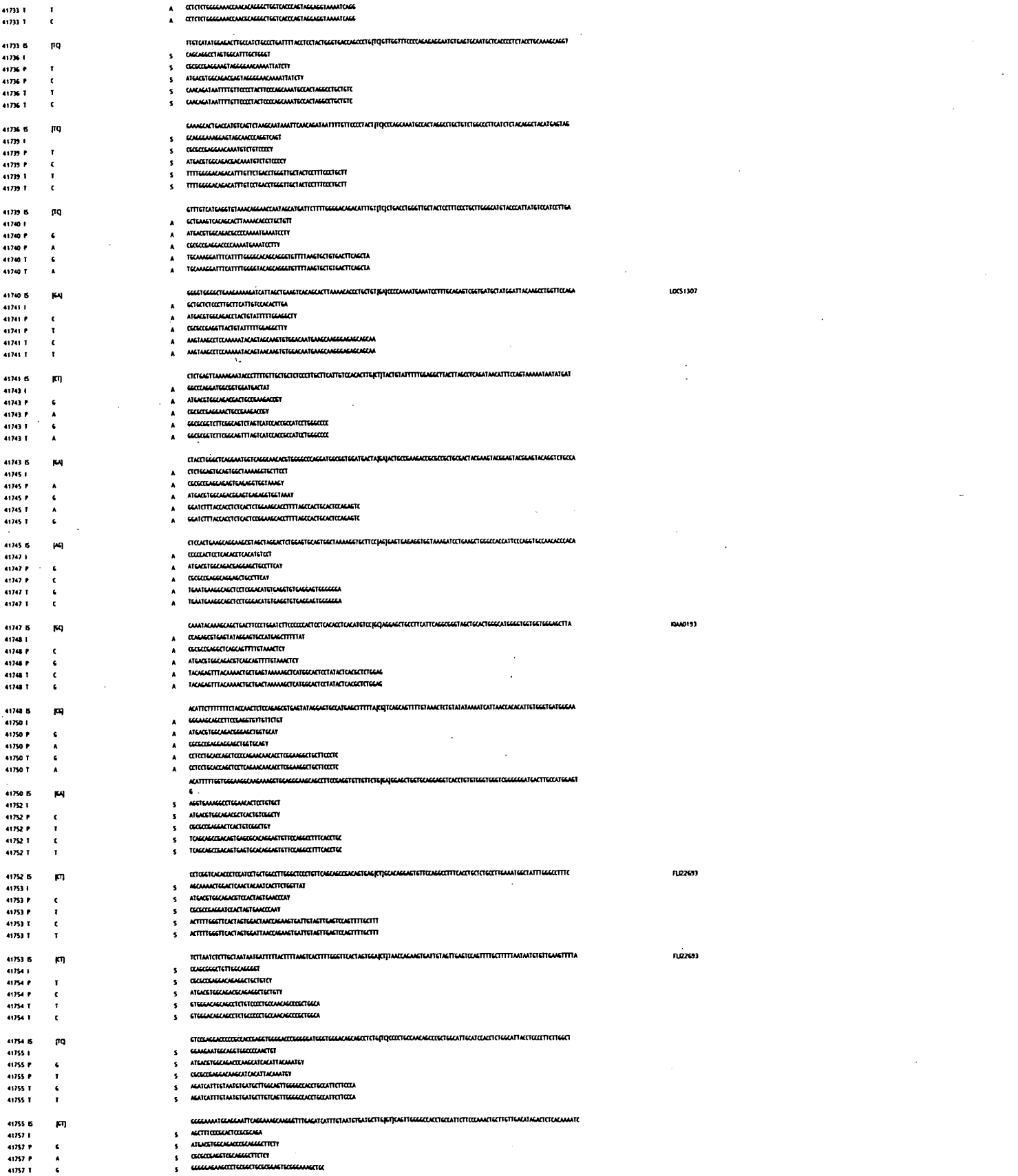
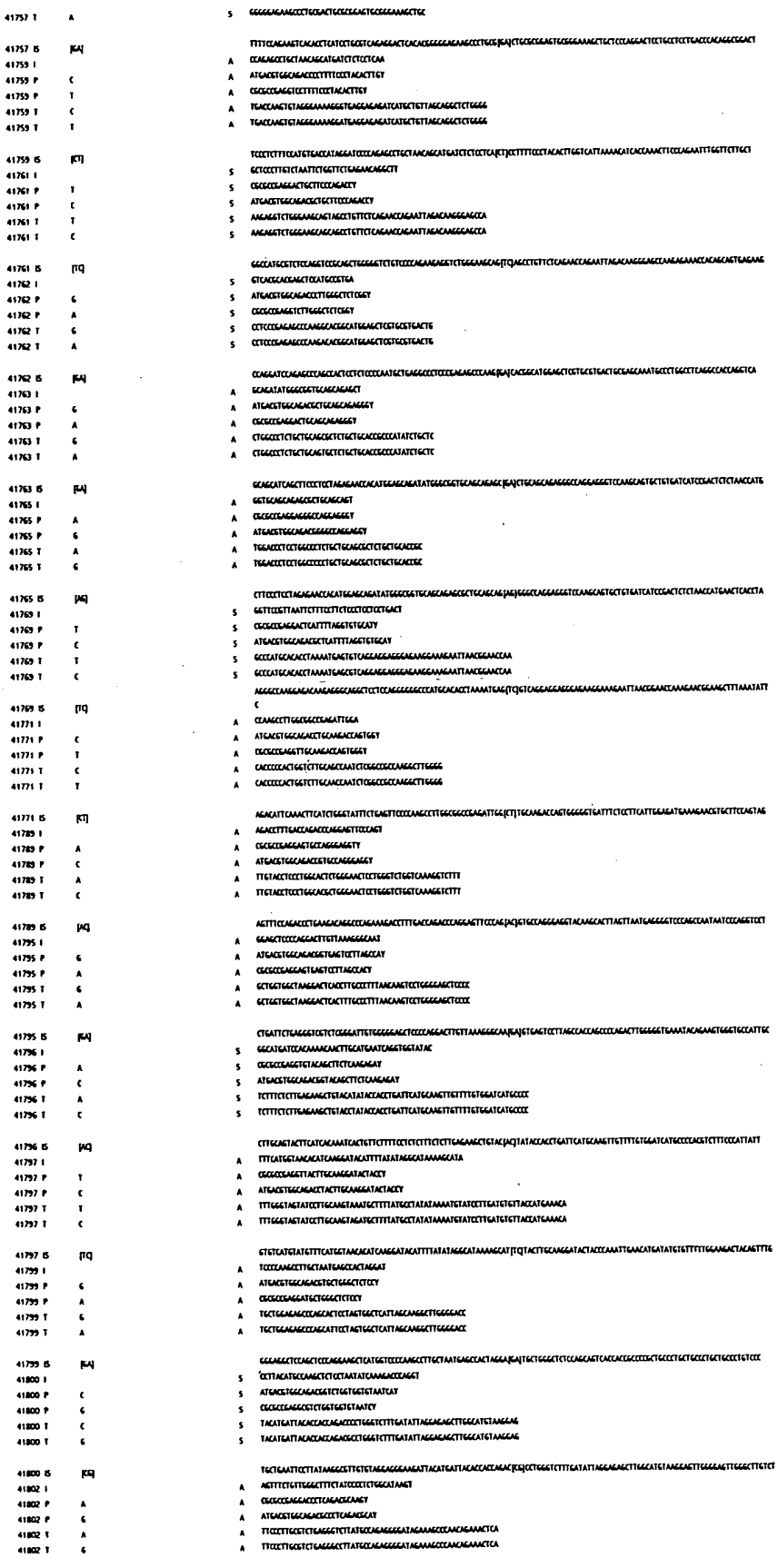


FIGURE 129F



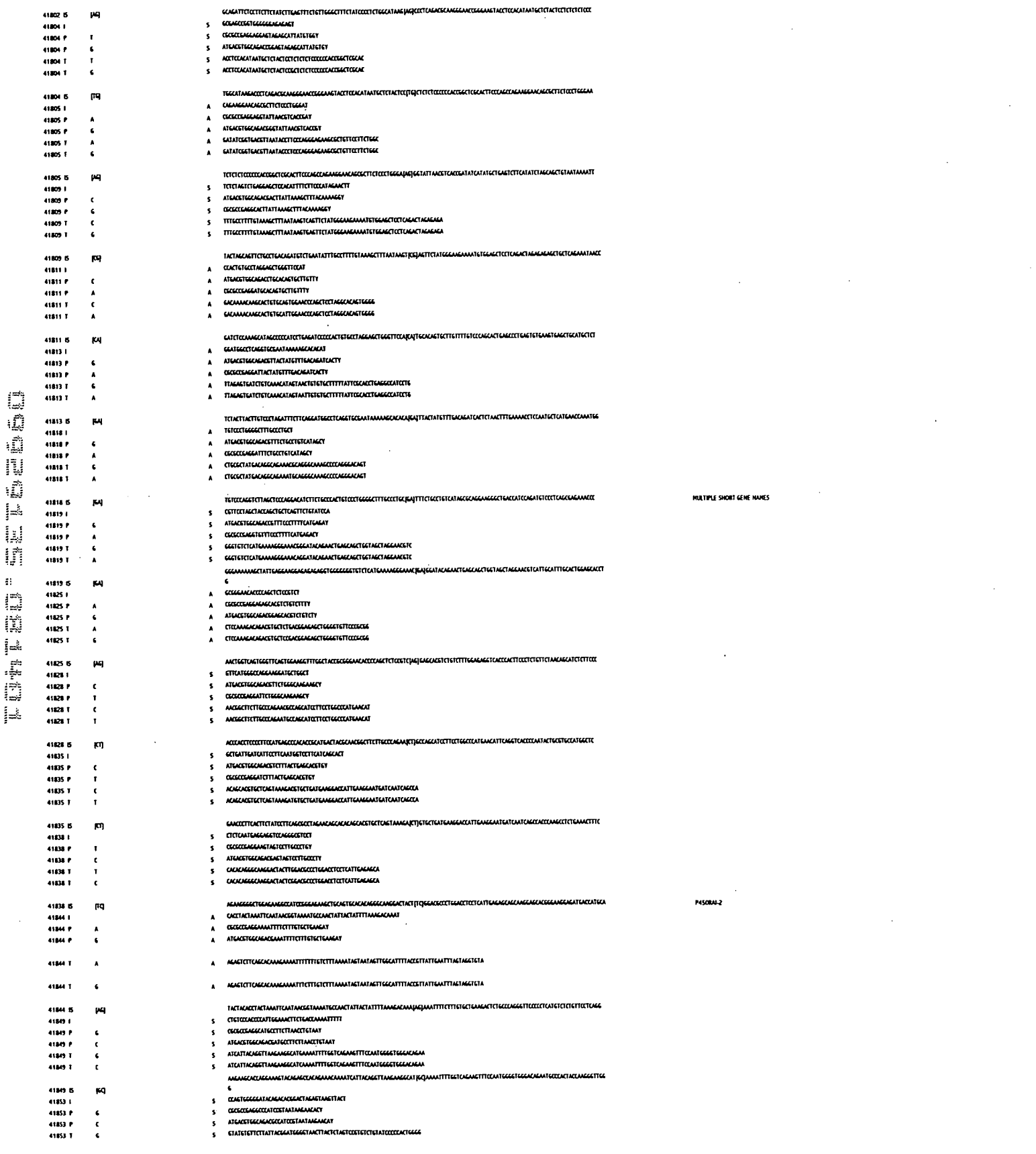
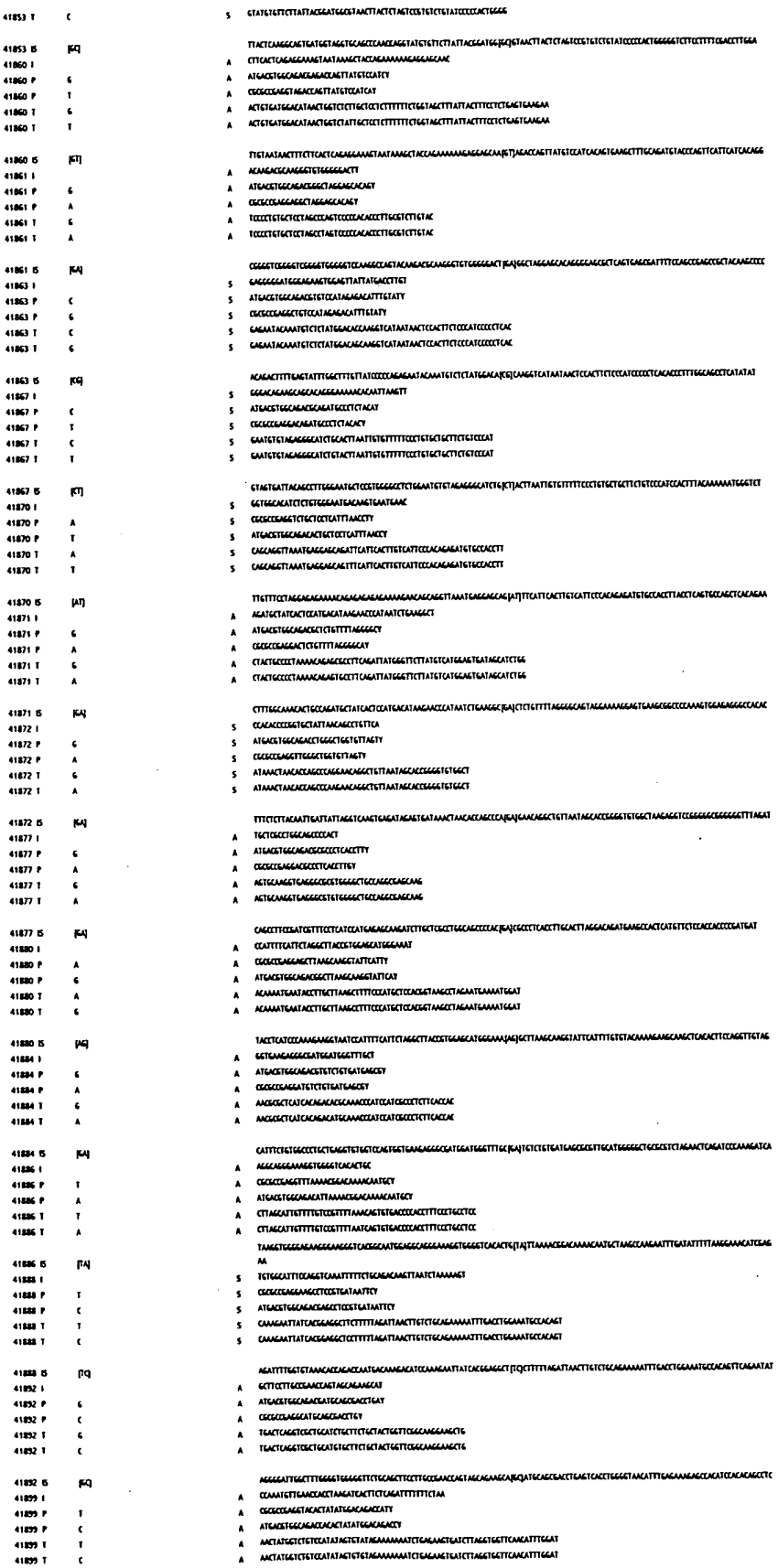
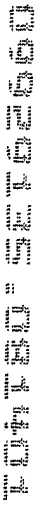
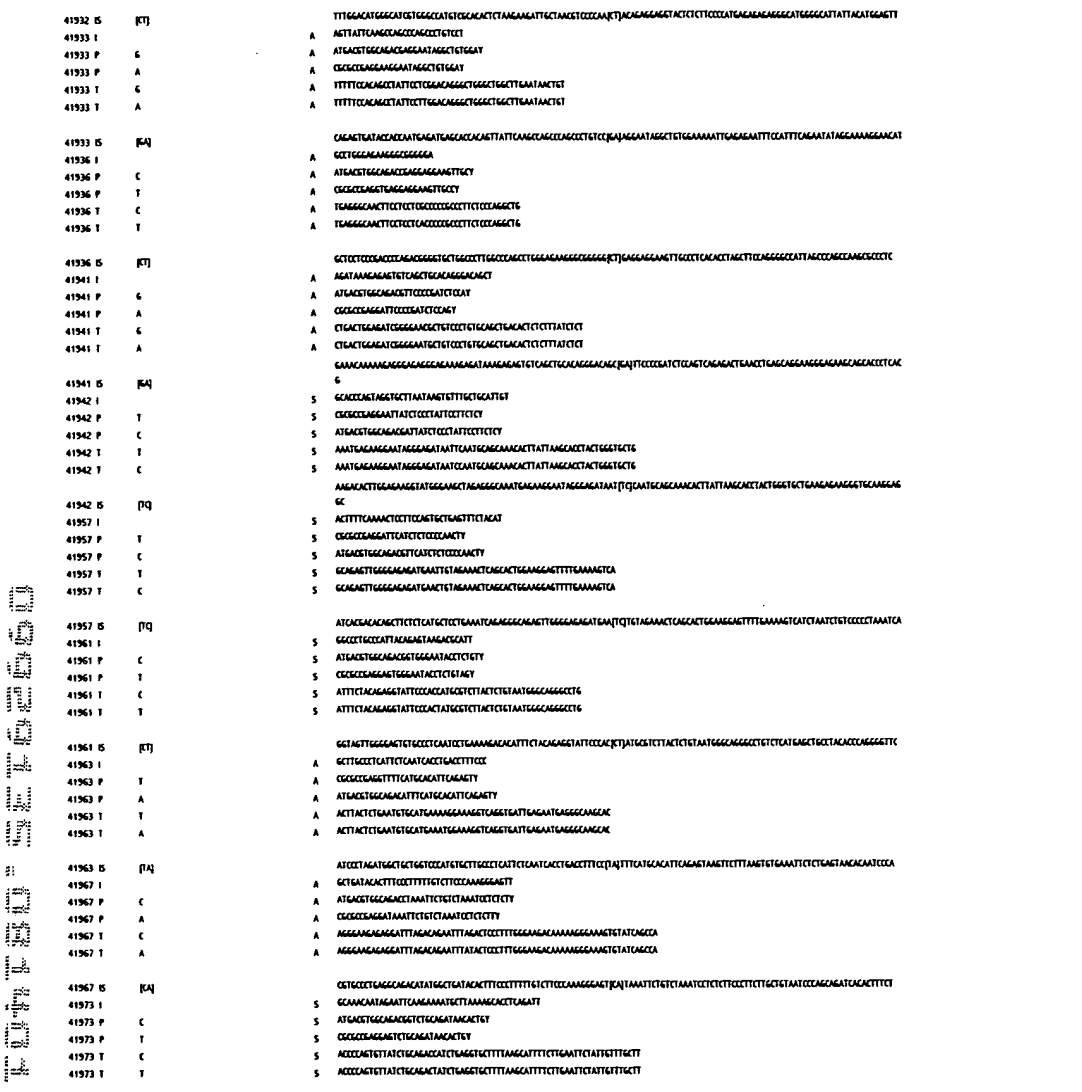

MULTIPLE SHORT GENE NAMES
P450RAI-2

FIGURE 129F







Replacement Sheet

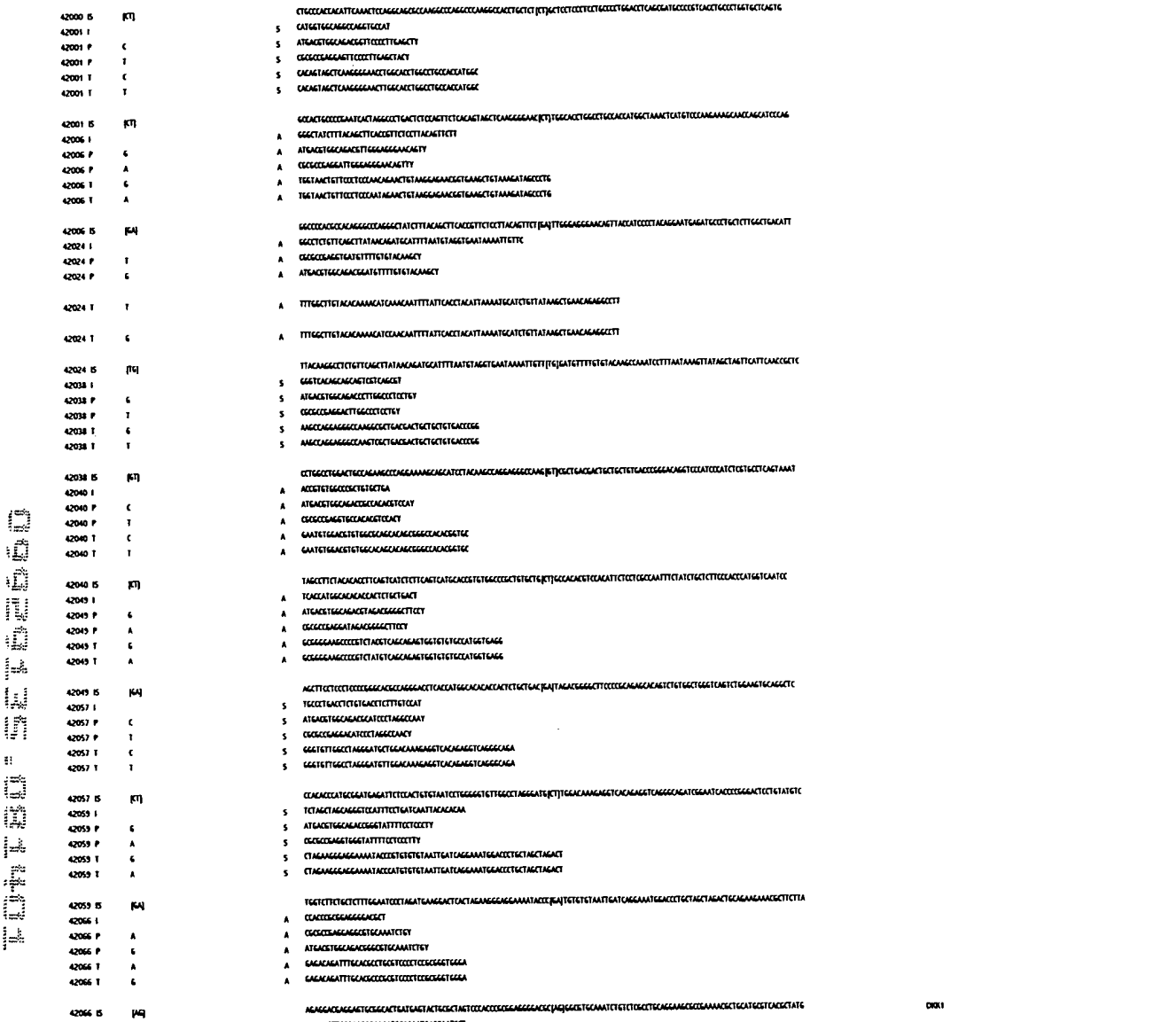


FIGURE 129F

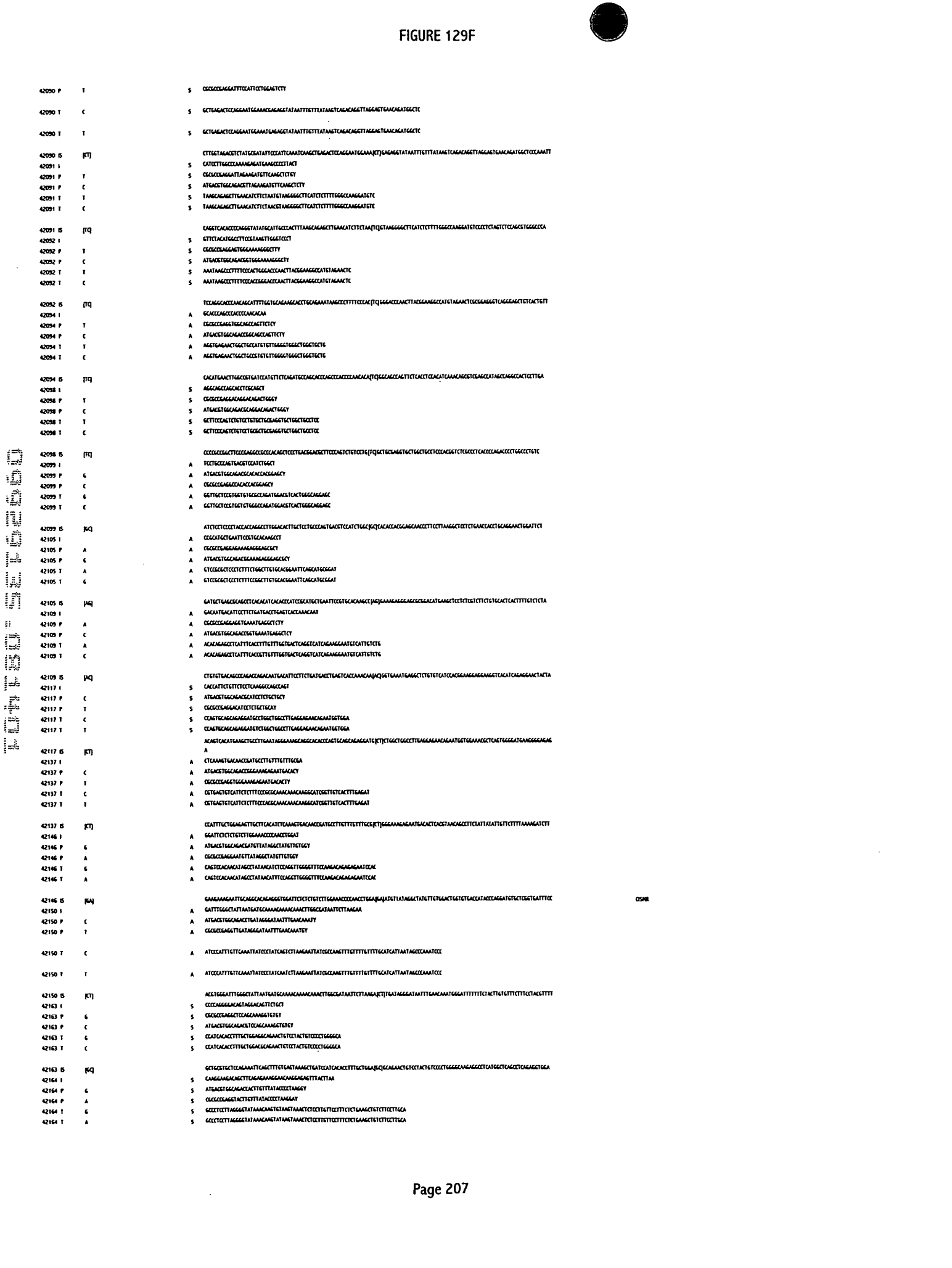

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42091 P T S CGCGCCCAAGGATTAGAAGATGTTCAAGCTCTGY
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42099 P C A CGCGCCGAGGCCACACCACGGAGCY
42099 T G A GGTTGCTCCGTGGTGTGGCCCAGATGGACGTCACTGGGCAGGAGC
42099 T C A GGTTGCTCCGTGGTGTGGGCCAGATGGACGTCACTGGGCAGGAGC
42099 IS [GC] ATCTCCTCCCCTACCACACAGGCCTTGGACACTTGCTCCTGCCCAGTGACGTCCATCTGCC[GC]CACACCACGGAGCAACCCTTCCTTAAGGCTCCTCTCGAACCACCTGCAGGAACTGGATTCT
42105 I A CCGCATGCTGAATTCCGTGCACAAGCCT
42105 P A A CGCGCCCAGCAGAAAAGAGGAAGCGCY
42105 P G A ATGACGTGGCAGACGGAAAGAGGAAGCGCY
42105 T A A GTCCGCGCTCCCTCTTTCTGGCTTGTGCACGGAATTCAGCATGCGGAT
42105 T G A GTCCGCGCTCCCTCTTTCCGGCTTGTGCACGGAATTCAGCATGCGGAT
42105 IS [AG] GATGCTGAGCGCAGCCTCACACATCACACCCATCCGCATGCTGAATTCCGTGCACAAGCC[AG]GAAAGAGGCAGCGCGCGACATGAAGCTCCTCTCGTCTTCTGTGCACTCACTTTTGTCTCTA
42109 I A GACAATGACATTCCTTCTGATGACCTGAGTCACCAAACAAT
42109 P A A CGCGCCCAGCAGGTGAAATCAGGCTCTY
42109 P C A ATGACGTGGCAGACCGGTGAAATCAGGCTCY
42109 T A A ACACAGAGCCTCATTTCACCTTGTTTGGTGACTCAGGTCATCAGAAGGAATGTCATTGTCTG
42109 T C A ACACAGAGCCTCATTTCACCGTTGTTTGGTGACTCAGGTCATCAGAAGGAATGTCATTGTCTG
42109 IS [AC] CTGTGTGACAGCCCAGACAGACAATGACATTCCTTCTGATGACCTGAGTCACCAAACAA[AC]GGTGAAATGAGGCTCTGTGTCATCCACGGAAGCAGGAAGGTCACATCAGAGGAACTACTA
42117 I S CACCATTCTGTTCTCCTCAAGGCCAGCCAGT
42117 P C S ATGACGTGGCAGACGCATCCTCTGCTGCY
42117 P T S CGCGCCGAGGACATCCTCTGCTGCAY
42117 T C S CCAGTGCAGCAGAGGATGCCTGGCTGGCCTTCAGGAGAACAGAATGGTGGA
42117 T T S CCAGTGCAGCAGAGGATGTCTGGCTGGCCTTCAGGAGAACAGAATGGTGGA
42117 IS [KT] ACAGTCACATGAAGCTGCCTTGAATAGGGAAAGCAGGCACACCCAGTGCAGCAGAGGATG[KT]CTGGCTGGCCTTGAGGAGAACAGAATGGTGGAAAGCCTCAGTGGGGATGAAGGGGAGAG
A
42137 I A CTCAAAGTGACAACCGATGCCTTGTTTGTTTGCGA
42137 P C A ATGACGTGGCAGACCGGGAAAGAGAATGACACY
42137 P T A CGCGCCGAGGTGGGAAAGAGAATGACACTY
42137 T C A CGTGAGTGTCATTCTCTTTCCCGCCAAACAAACAAGGCATCGGTTGTCACTTTGAGAT
42137 T T A CGTGAGTGTCATTCTCTTTCCCACGCAAACAAACAAGGCATCGGTTGTCACTTTGAGAT
42137 IS [KT] CCATTTGCTGGAGAGTTGCTTCACATCTCAAAGTGACAACCGATGCCTTGTTTGTTTGCG[KT]GGGAAAGAGAATGACACTCACGTAACAGCCTTCTATTATATTGTTCTTTTAAAAGATCTT
42146 I A GGATTCTCTCTGTCTTGGAAACCCCAACCTGGAT
42146 P G A ATGACGTGGCAGACGATGTTATAGGCTATGTTGTGGY
42146 P A A CGCGCCGAGGAATGTTATAGGCTATGTTGTGGY
42146 T G A CAGTCCACAACATAGCCTATAACATCTCCAGGTTGGGGTTTCCAAGACAGAGAGAATCCAC
42146 T A A CAGTCCACAACATAGCCTATAACATTCCAGGTTGGGGTTTCCAAGACAGAGAGAATCCAC
42146 IS [GA] GAAGAAAGAATTGCAGGCACAGAGGTGGATTCTCTCTGTCTTGGAAACCCCAACCTGGA[GA]ATGTTATAGGCTATGTTGTGGACTGGTGTGACCATACCCAGGATGTGCTCGGTGATTTCC OSMR
42150 I A GATTTGGCCTATTAATGATGCAAAACAAAACAAACTTGGCGATAATTCTTAAGAA
42150 P C A ATGACGTGGCAGACCTGATAGGGATAATTTGAACAAATY
42150 P T A CGCGCCGAGGTTGATAGGGATAATTTGAACAAATGY
42150 T C A ATCCCCATTTGTTCAAATTATCCCTATCAGTCTTAAGAATTATCGCCAAGTTTGTTTTGTTTTGCATCATTAATAGCCCAAATCCC
42150 T T A ATCCCATTTGTTCAAATTATCCCTATCAATCTTAAGAATTATCGCCAAGTTTGTTTTGTTTTGCATCATTAATAGCCCAAATCCC
42150 IS [CT] ACGTGGGATTTGGGCTATTAATGATGCAAAACAAAACAAACTTGGCGATAATTCTTAAGA[CT]TGATAGGGATAATTTGAACAAATGGGATTTTTTTCTACTTGTGTTTCTTTCCTACGTTTT
42163 I S CCCCAGGGGACAGTAGGACAGTTCTCGCT
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42163 P C S ATGACGTGGCAGACGTCCAGCAAGGTGTGY
42163 T G S CCATCACACCTTTGCTGGAGGCAGAACTGTCCTACTGTCCCCTGGGGCA
42163 T C S CCATCACACCTTTGCTGGAGCAGAACTGTCCTACTGTCCCCTGGGGCA
42163 IS [GC] GCTGCGTGCTCCAGAAATTCAGCTTTGTGAGTAAAGCTGATCCATCACACCTTTGCTGGA[GC]GCAGAACTGTCCTACTGTCCCCTGGGGCAAGAGGCCTCATGGCTCAGCCTCAGAGCTGGA
42164 I S CAAGAAGACAGCTTCAGAGAAAGGAACAAGGAGAGTTTACTTAA
42164 P G S ATGACGTGGCAGACACTGTTTATACCCCTAAGGY
42164 P A S CGCGCCGAGGTACTTGTTTATACCCCTAAGGAY
42164 T G S GCCCTCCTTAGGGGTATAAACAAGTGTAAGTAAACTCTCCTTGTTCCTTCTCTGAAGCTGTCTTCCTTGCA
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FIGURE 129F

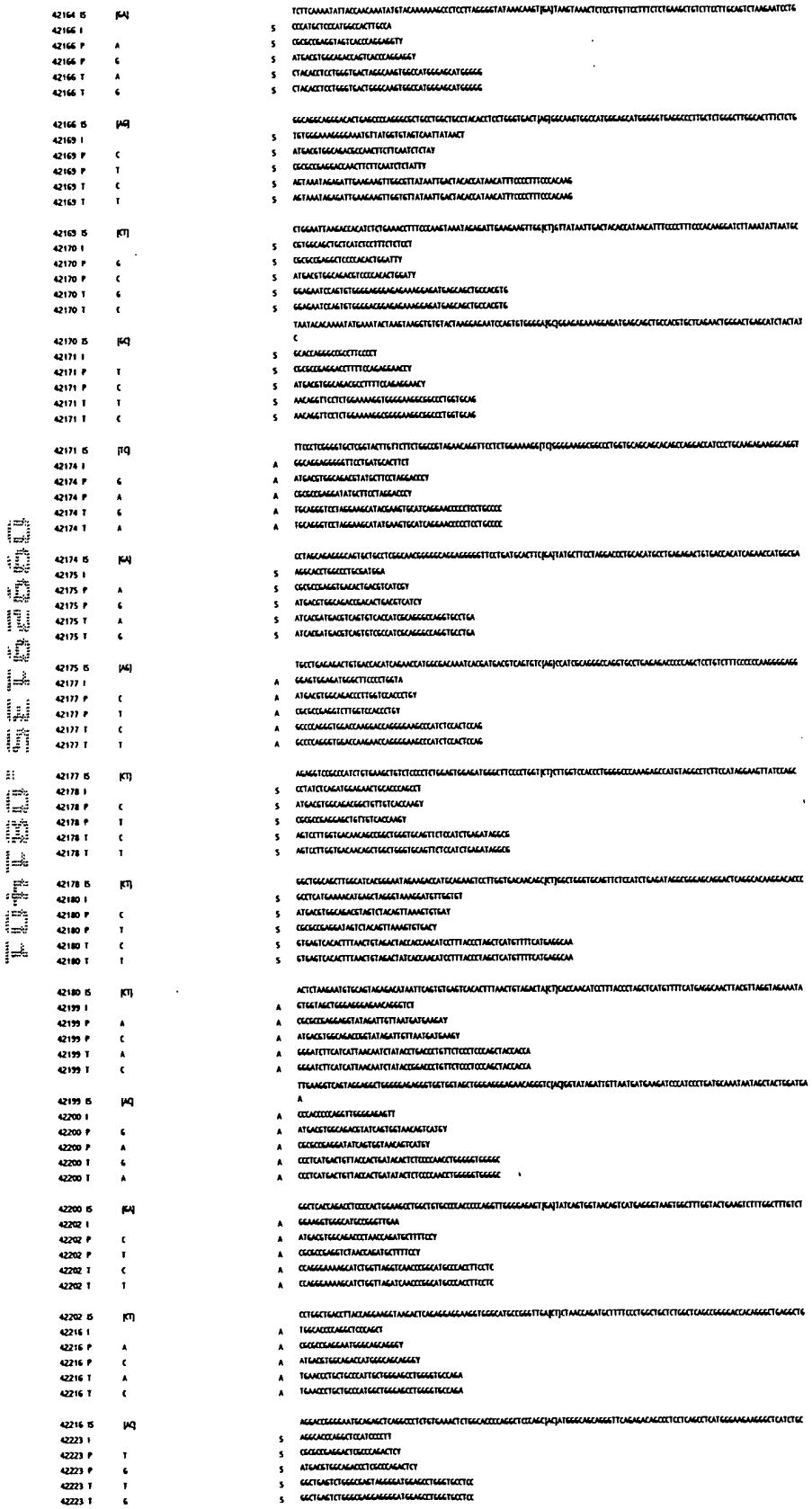


FIGURE 129F

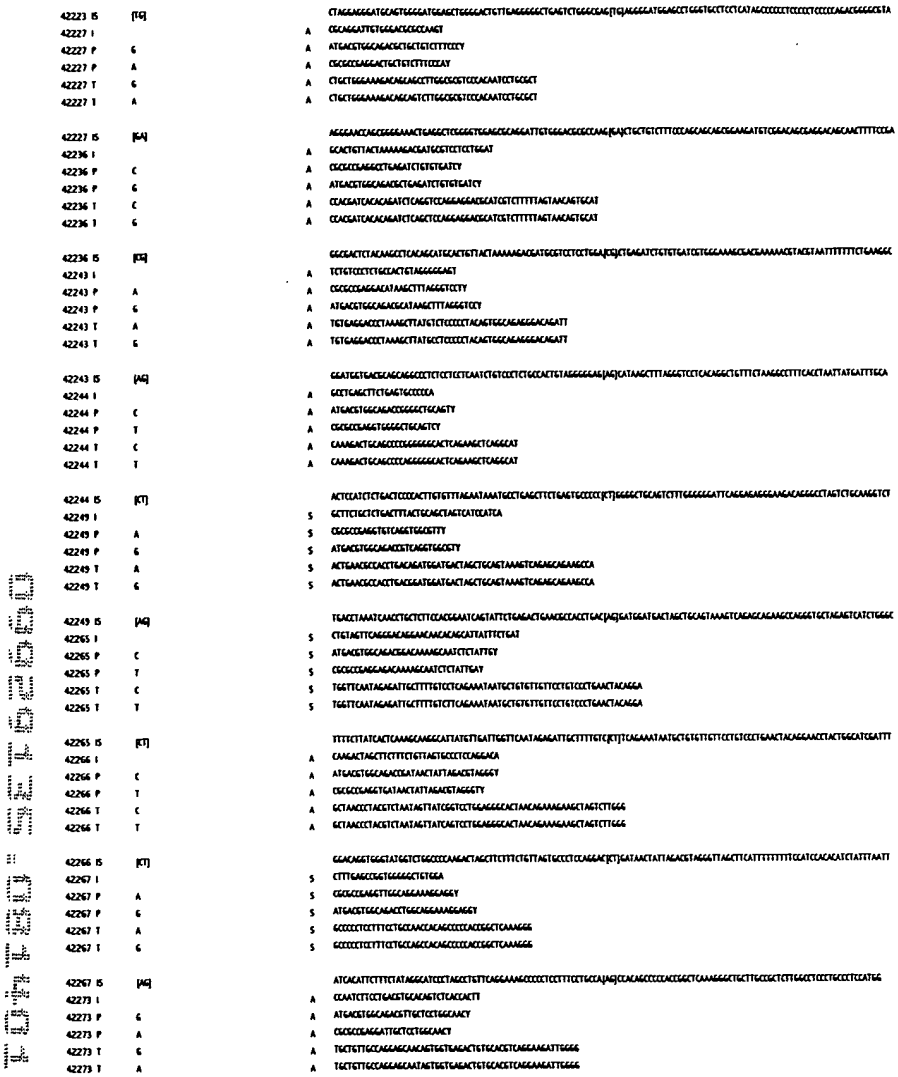
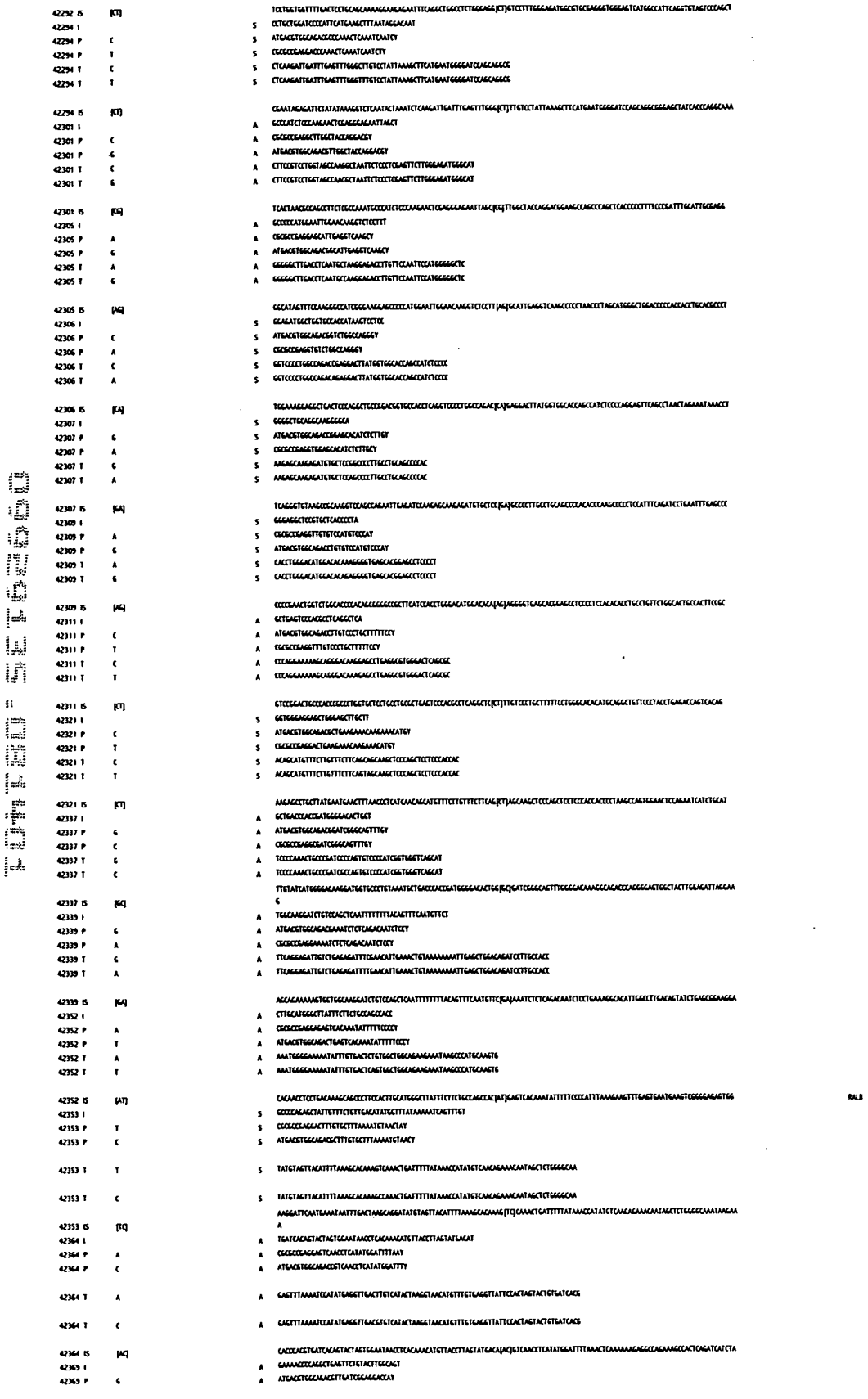
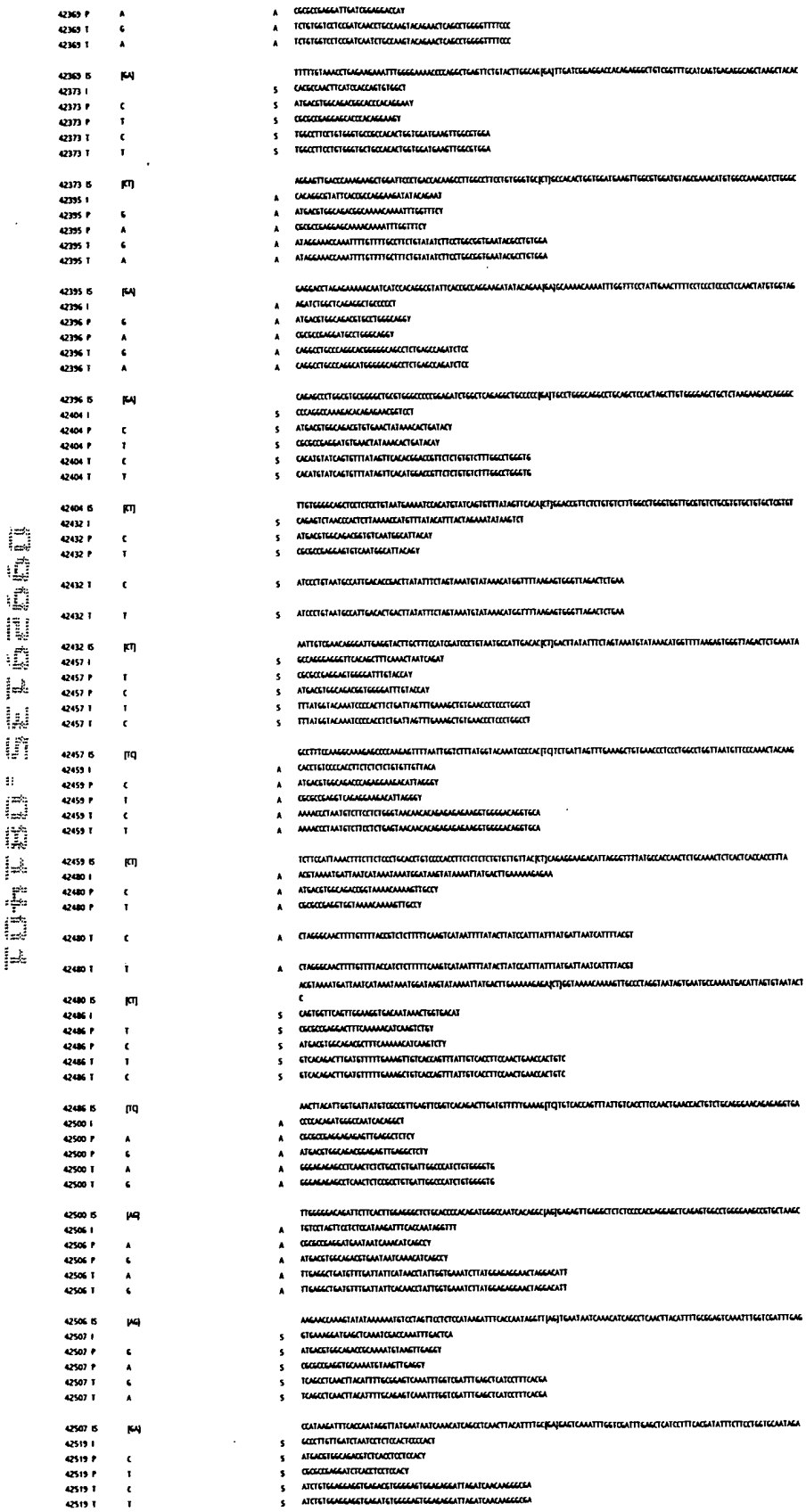


FIGURE 129F





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FIGURE 129F

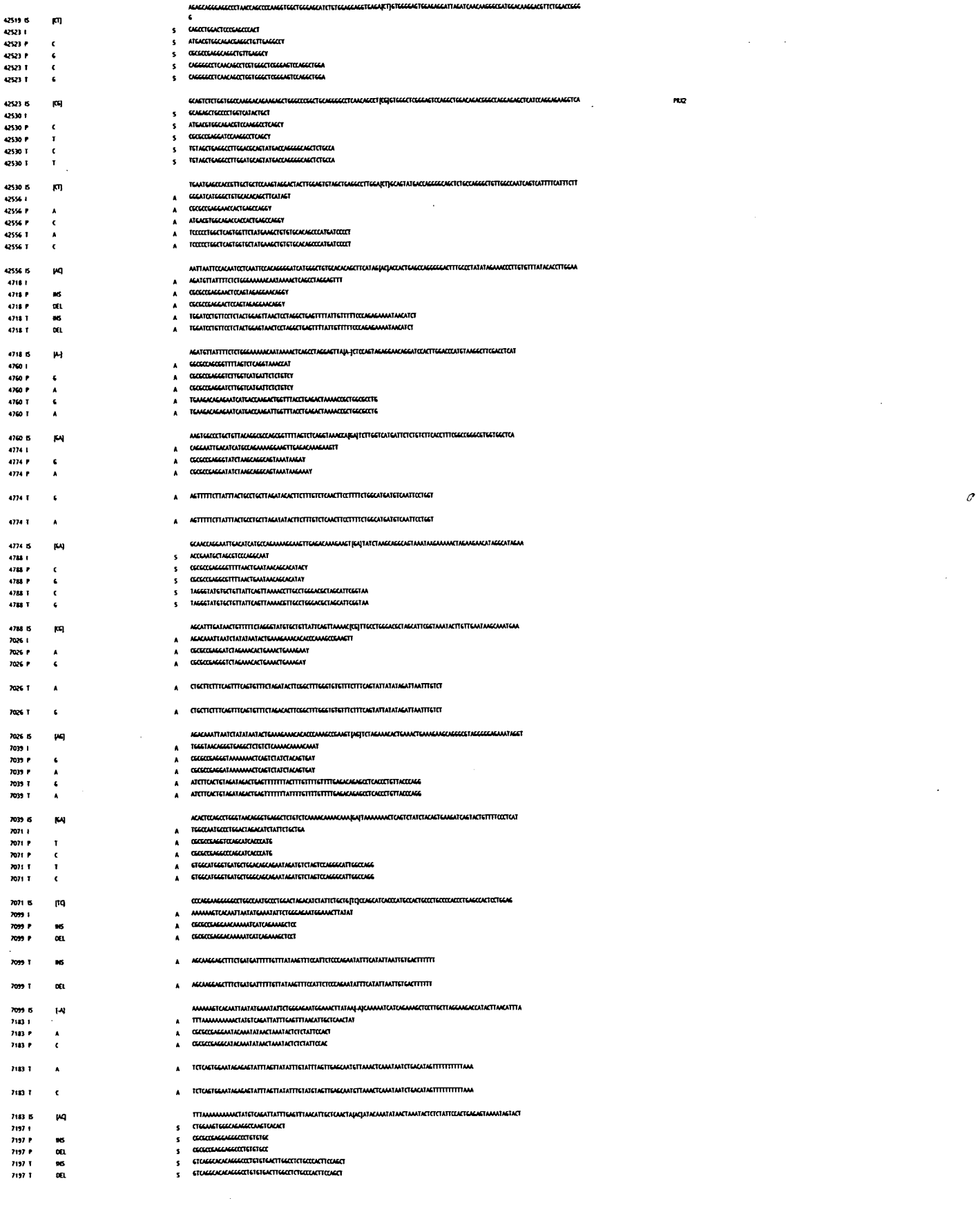


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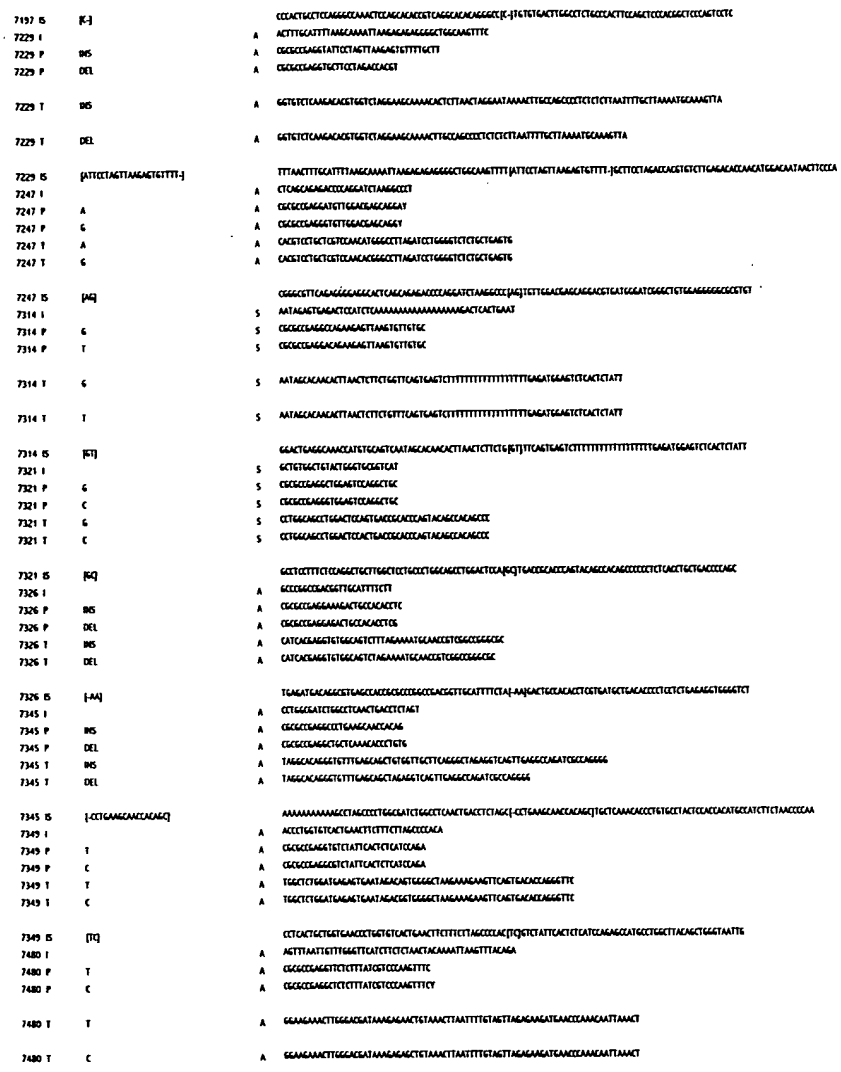


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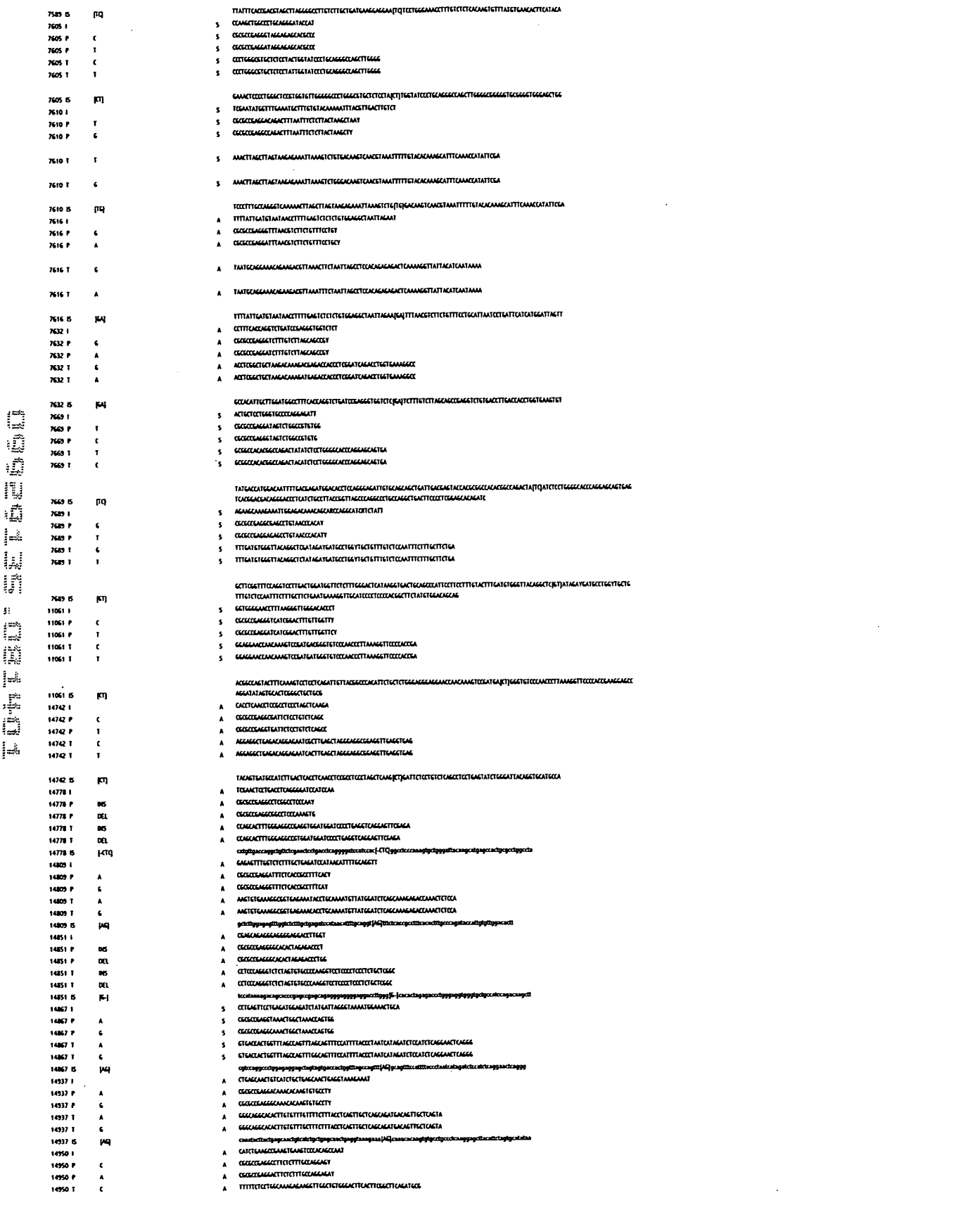


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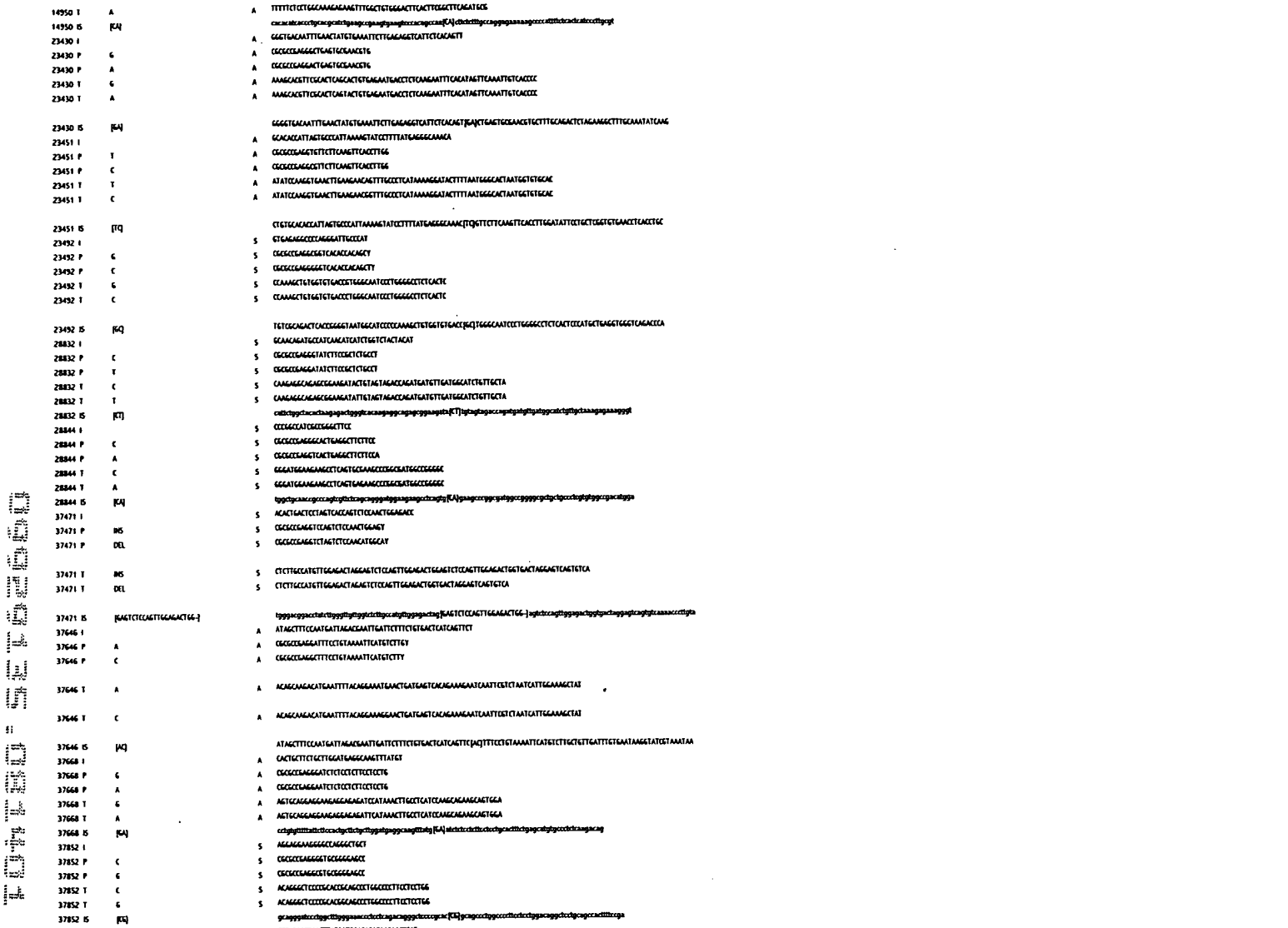
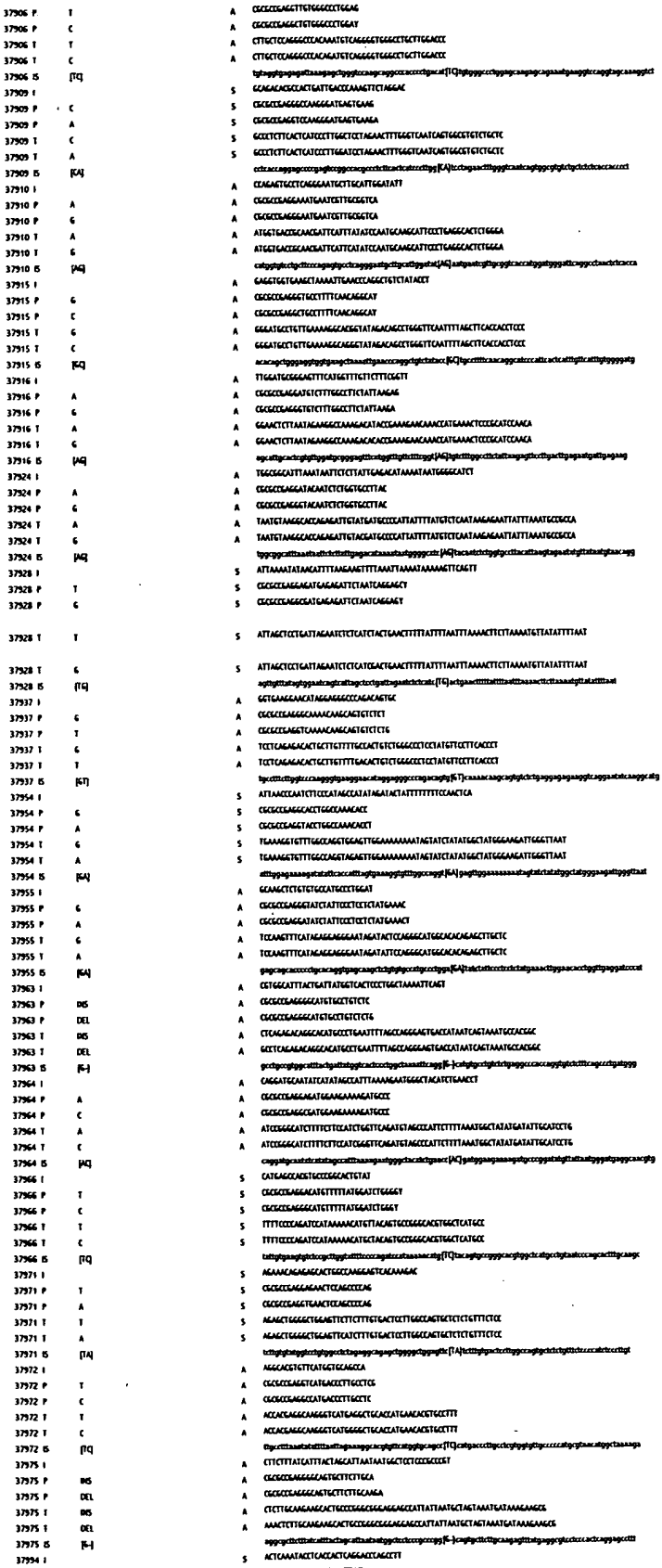


FIGURE 129F



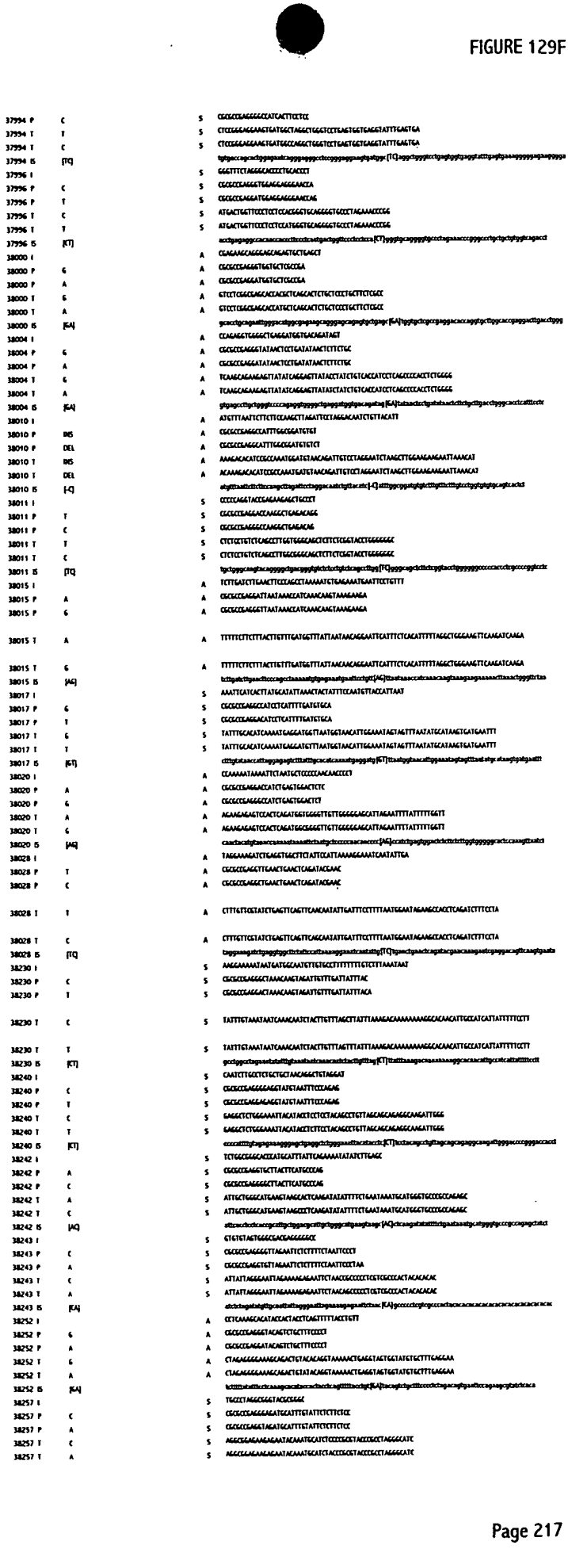
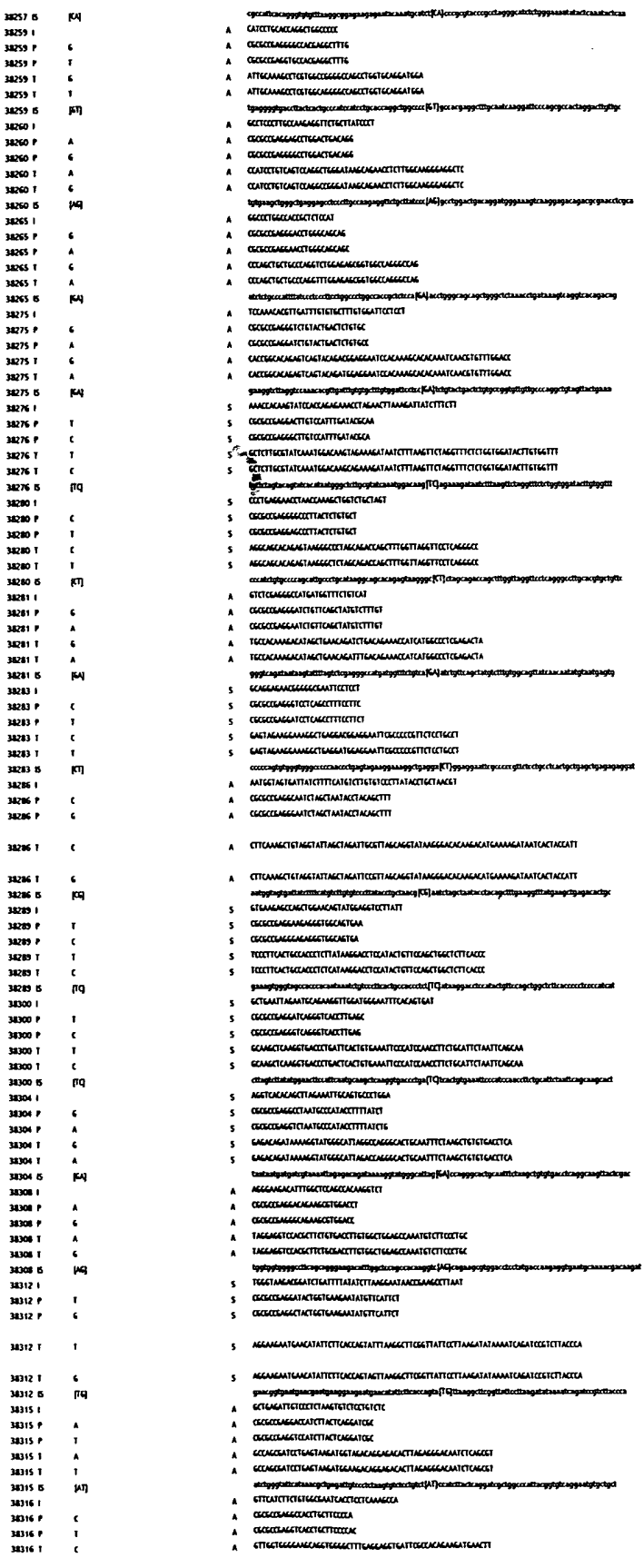


FIGURE 129F



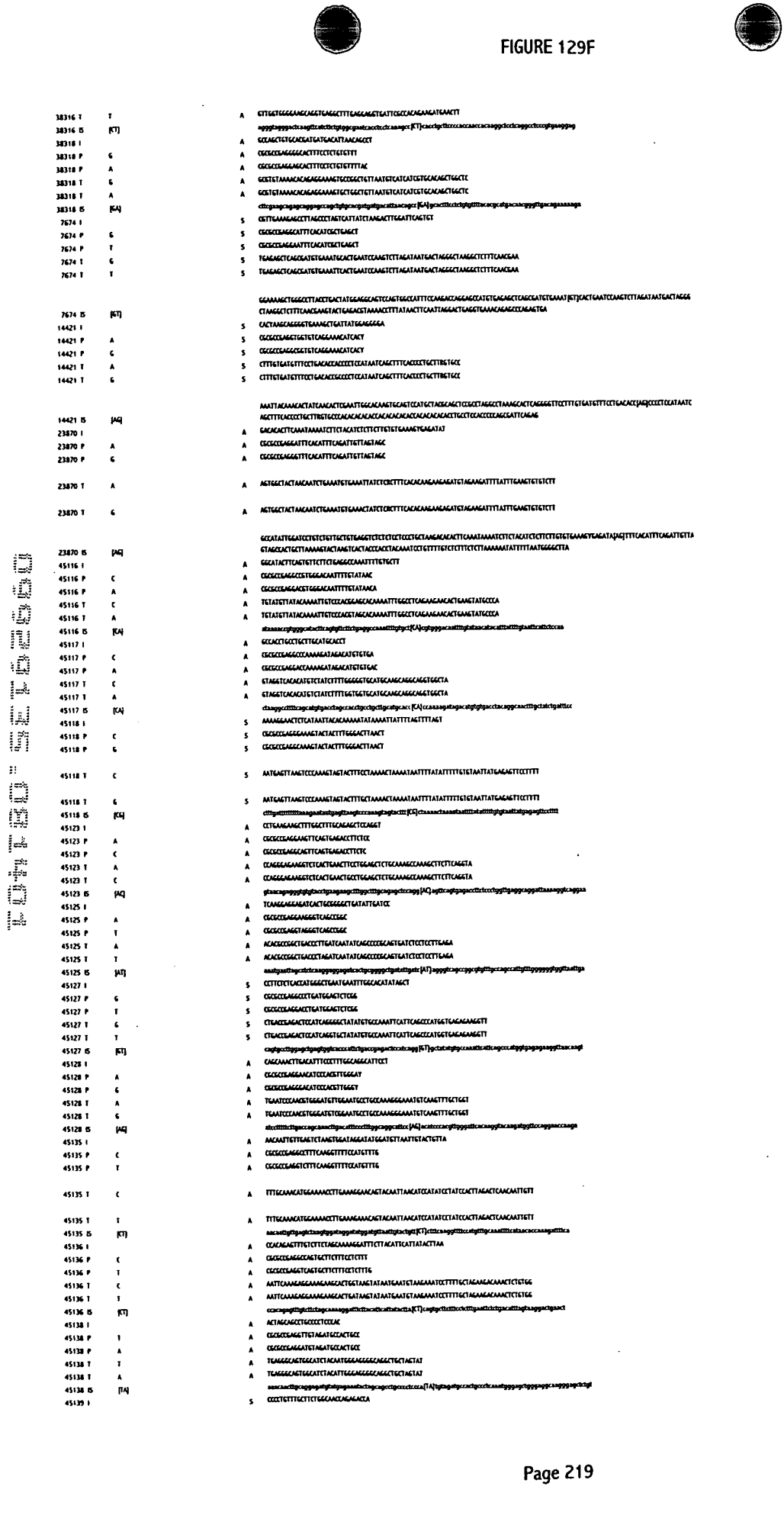


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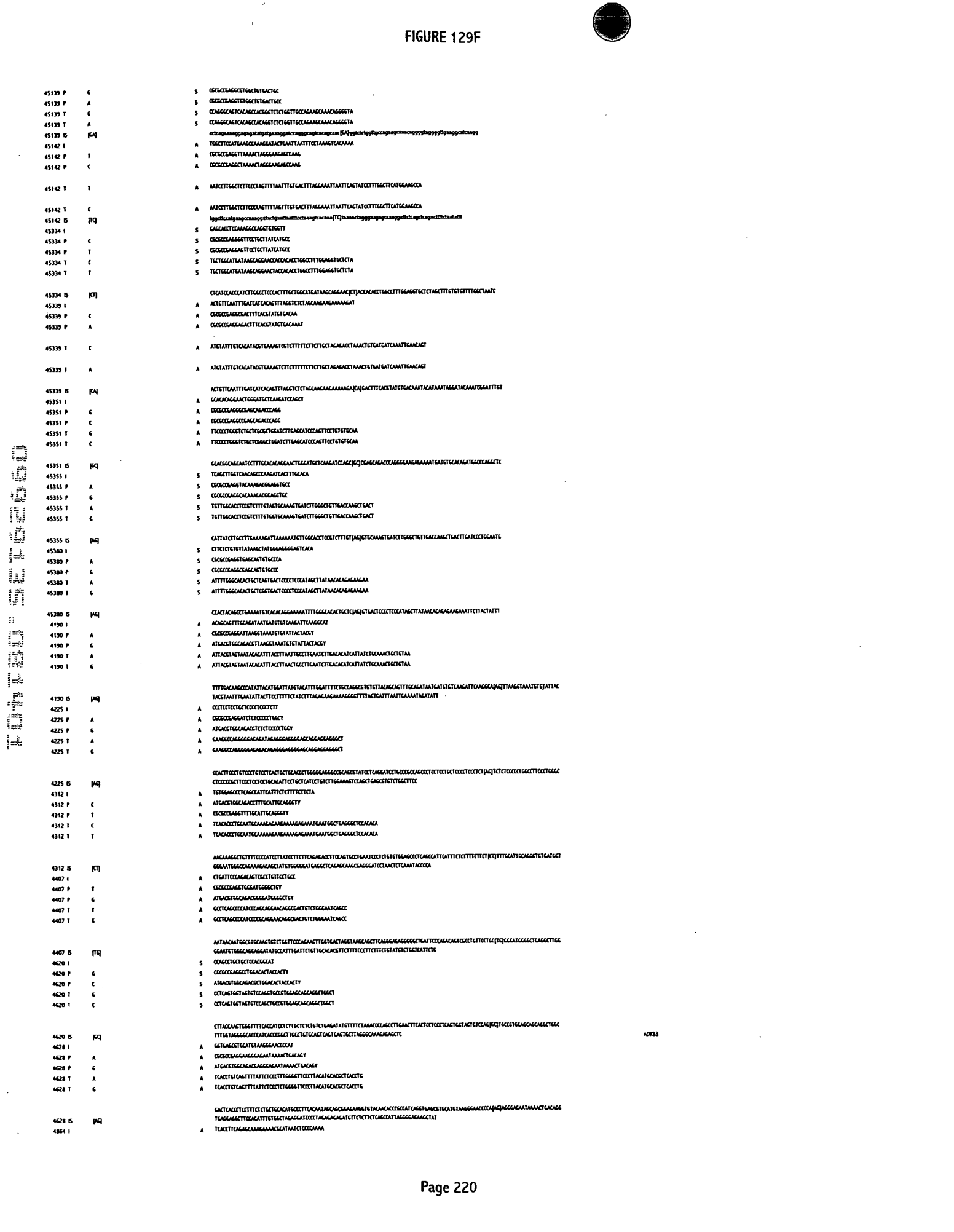


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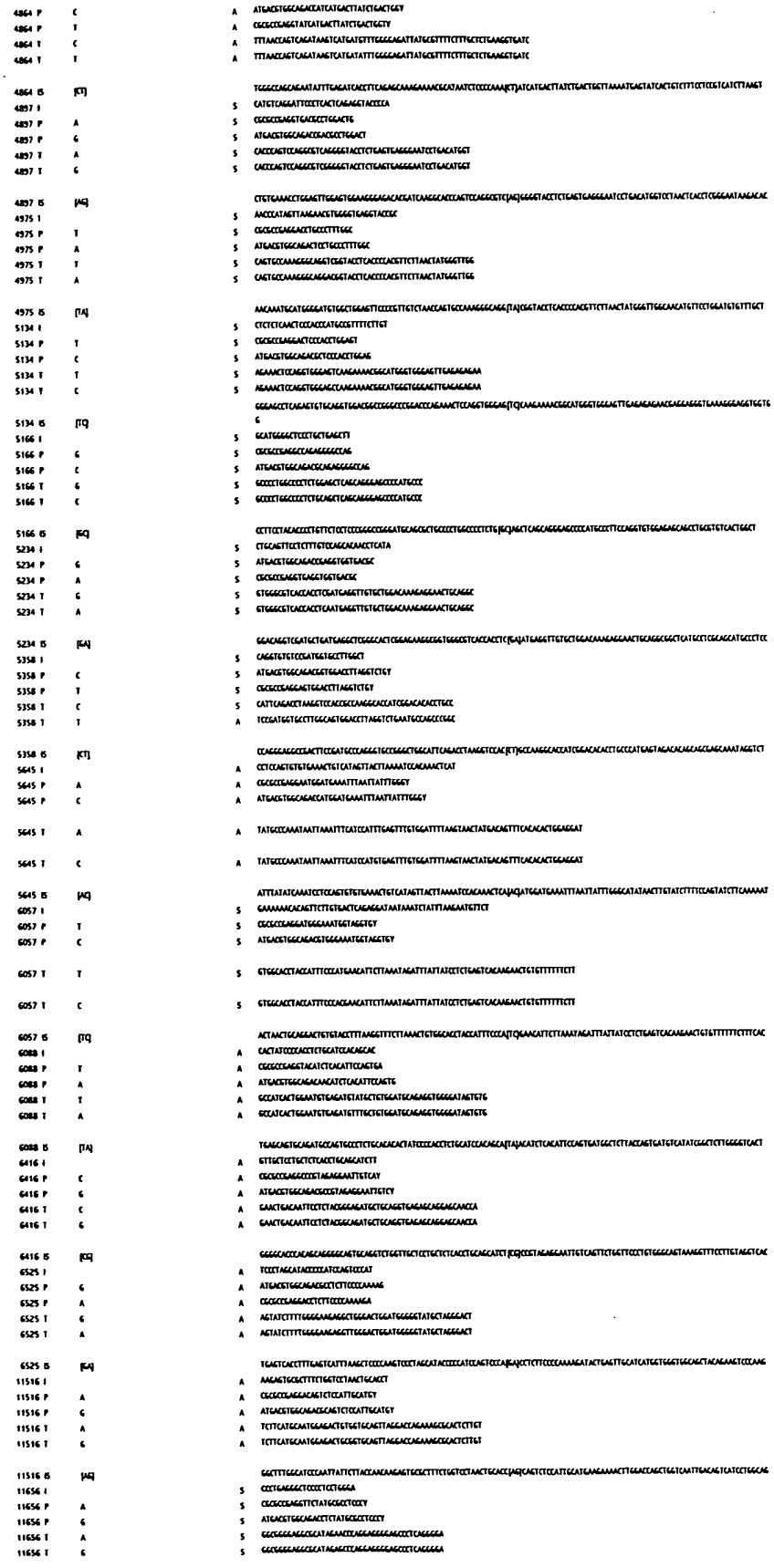


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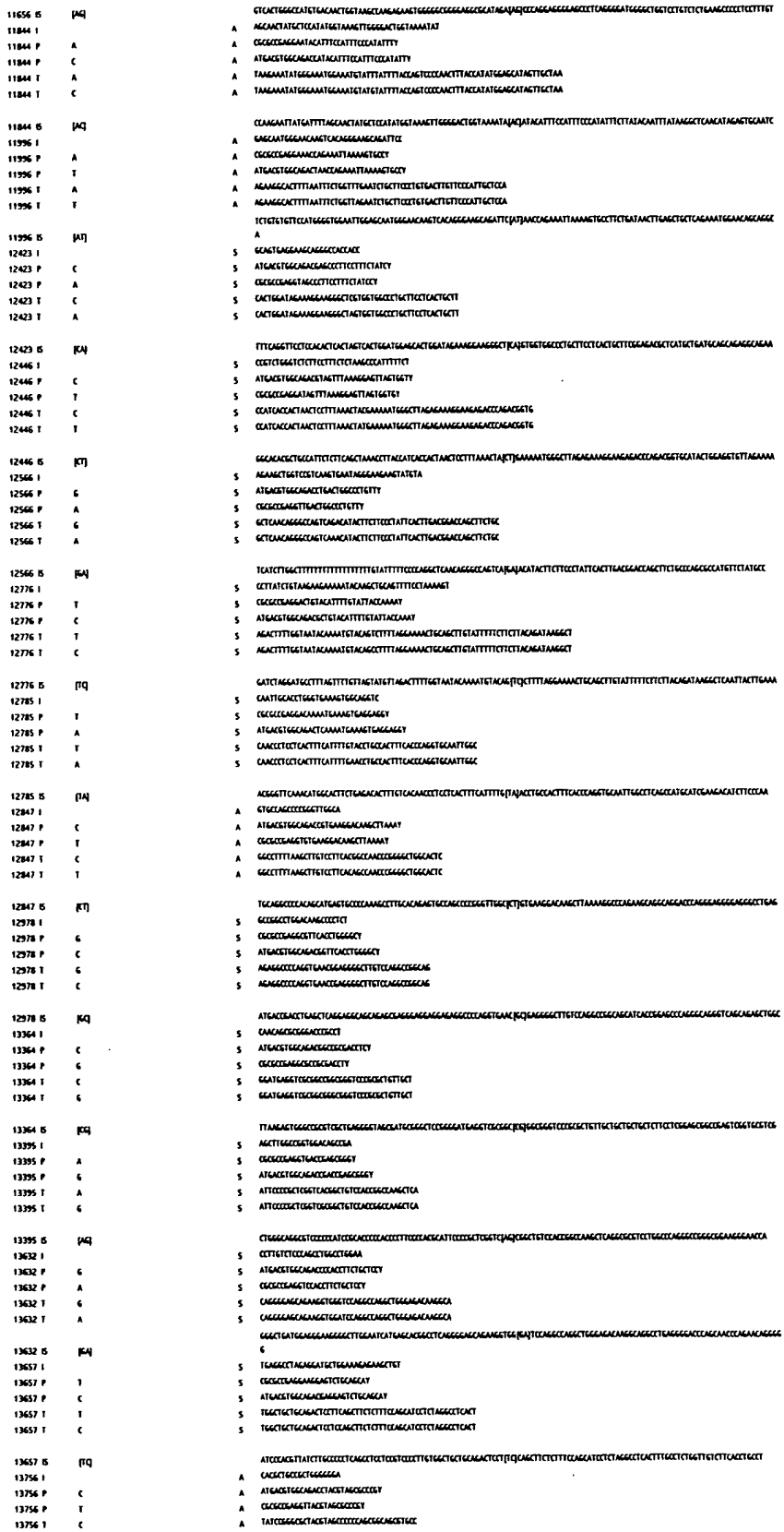
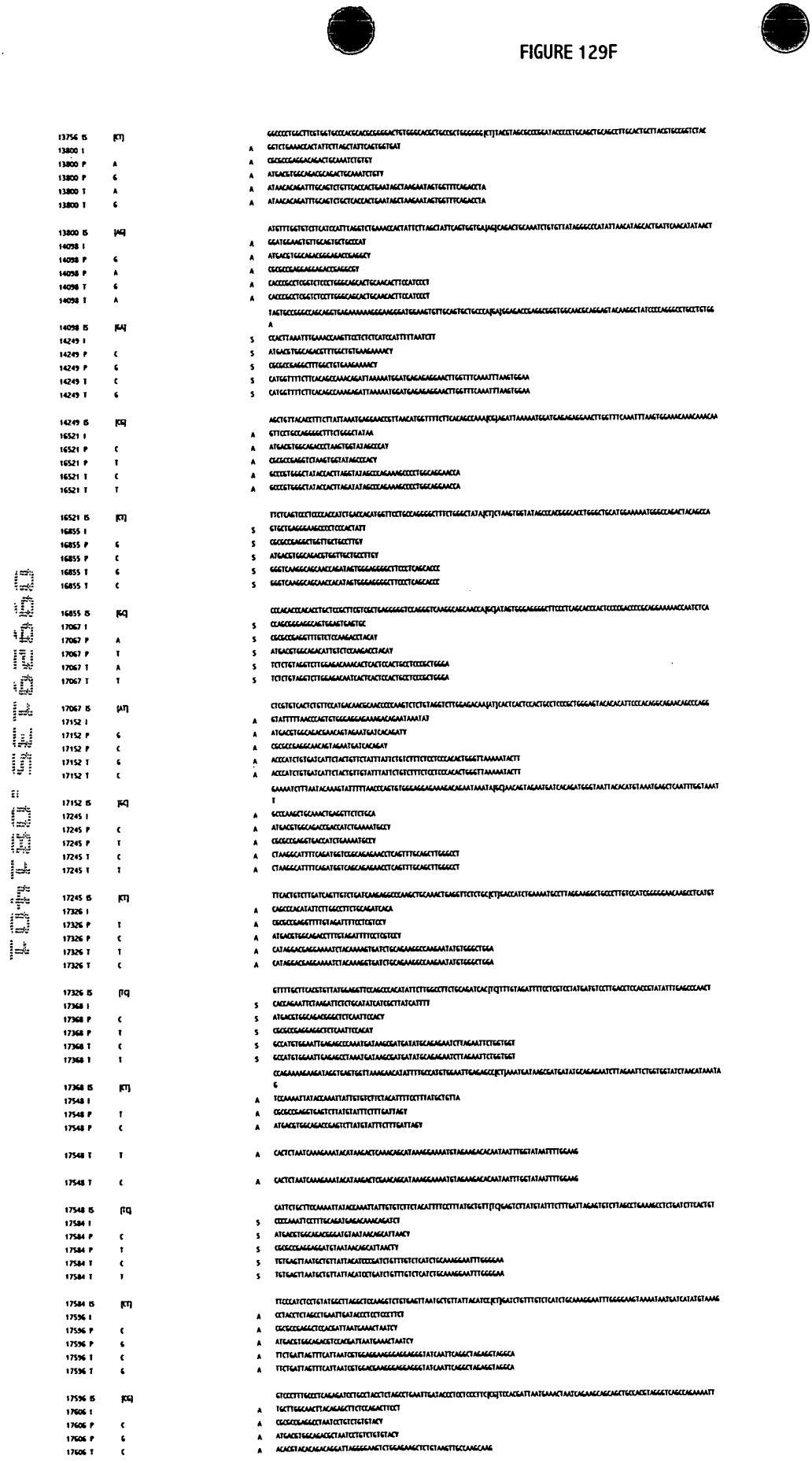


FIGURE 129F



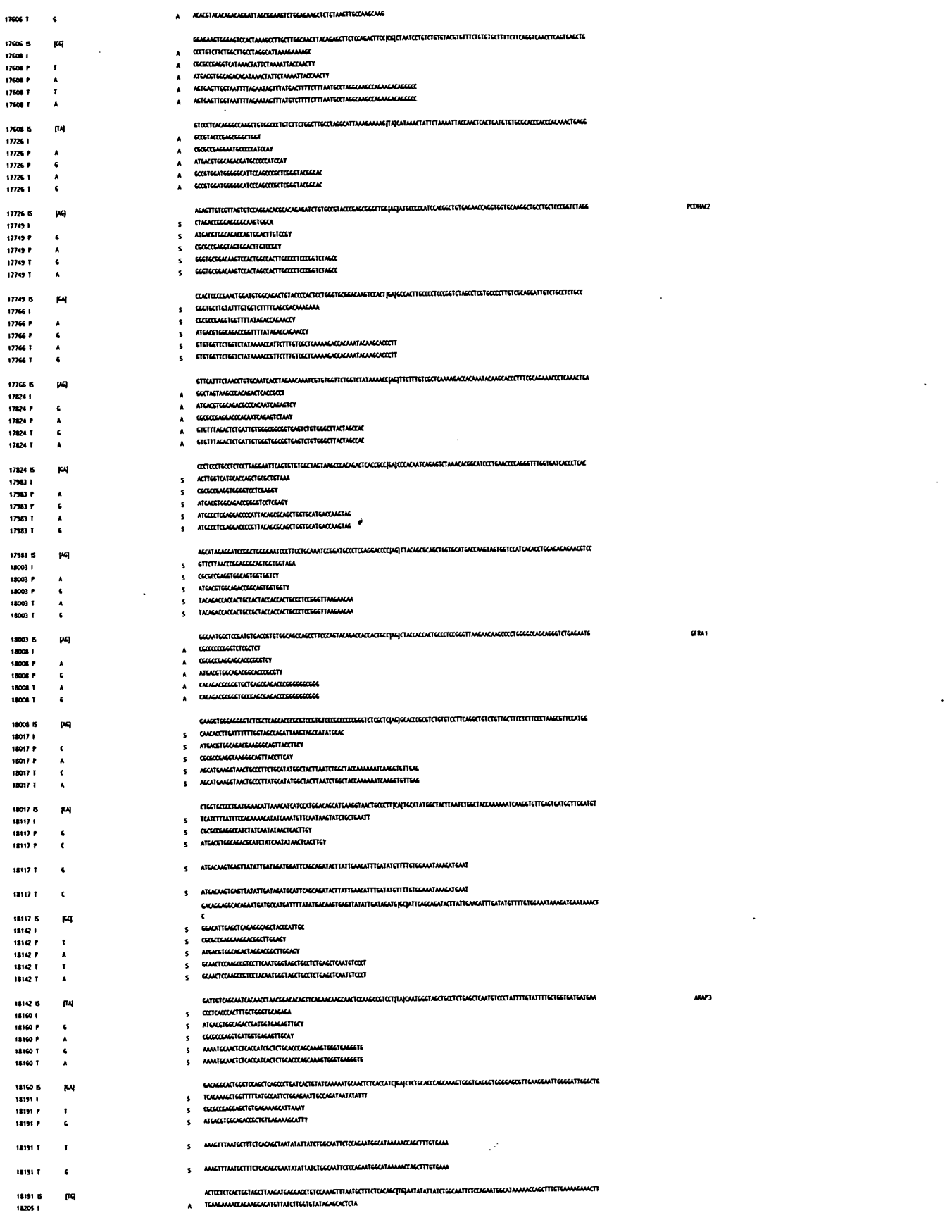


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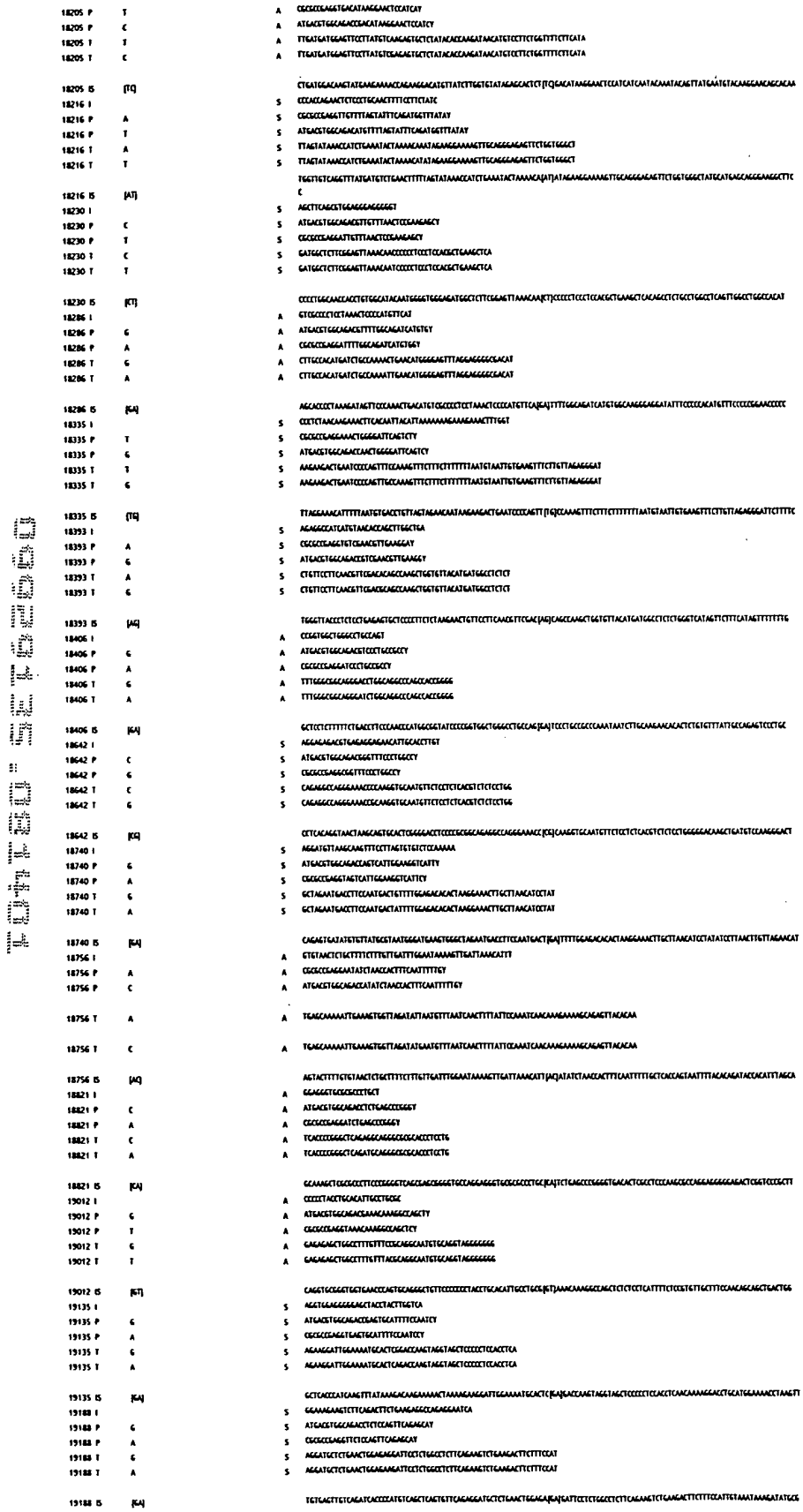
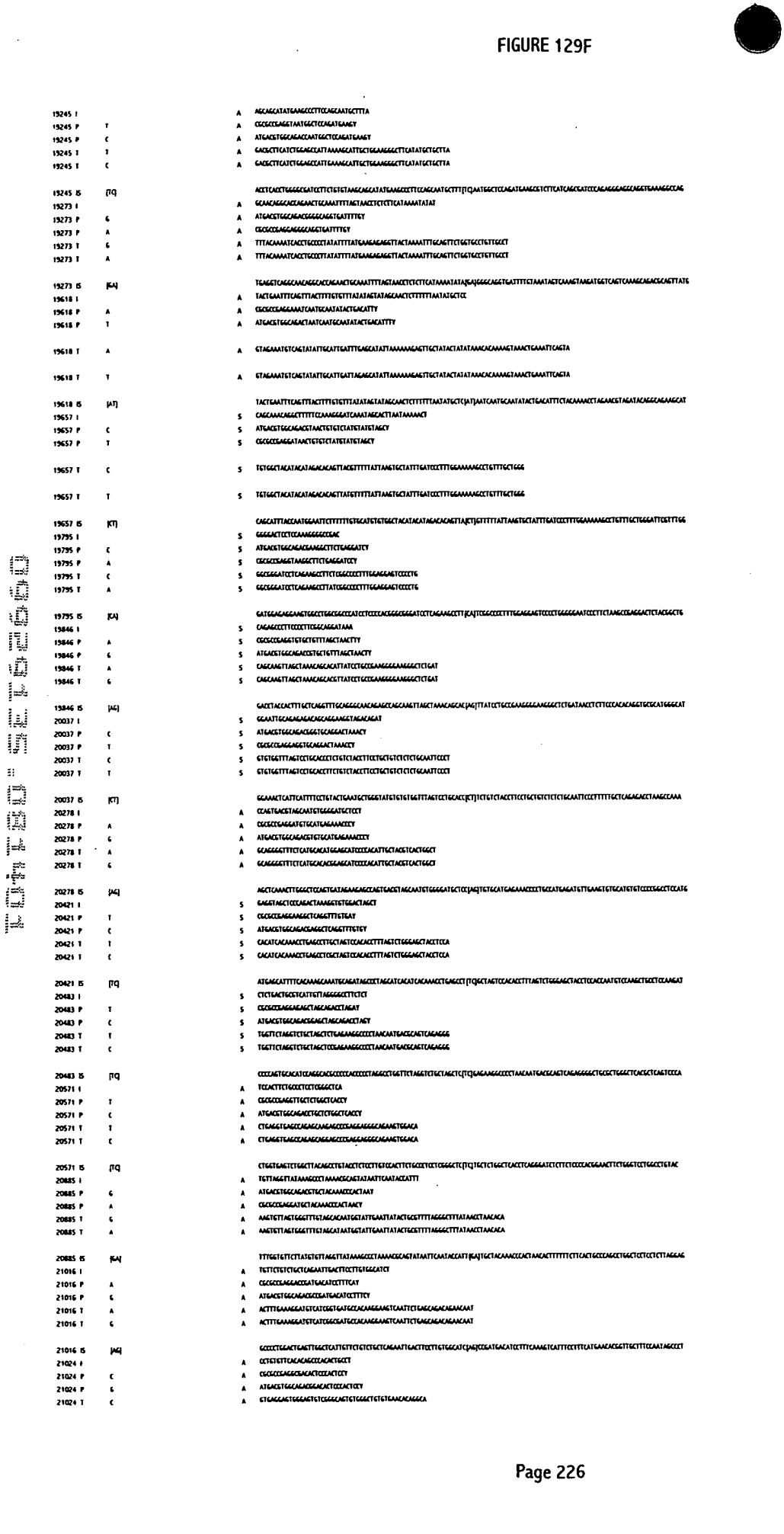
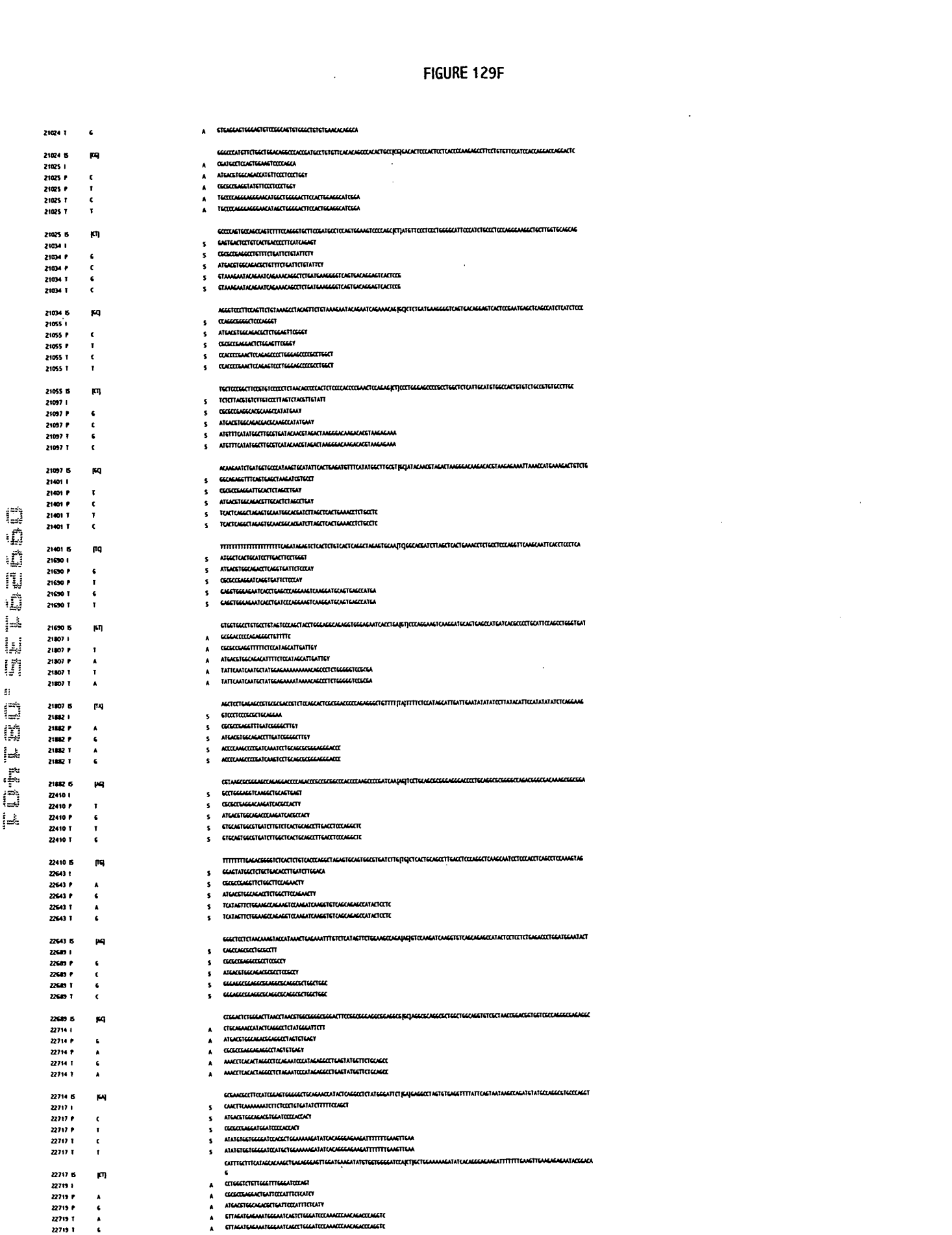


FIGURE 129F





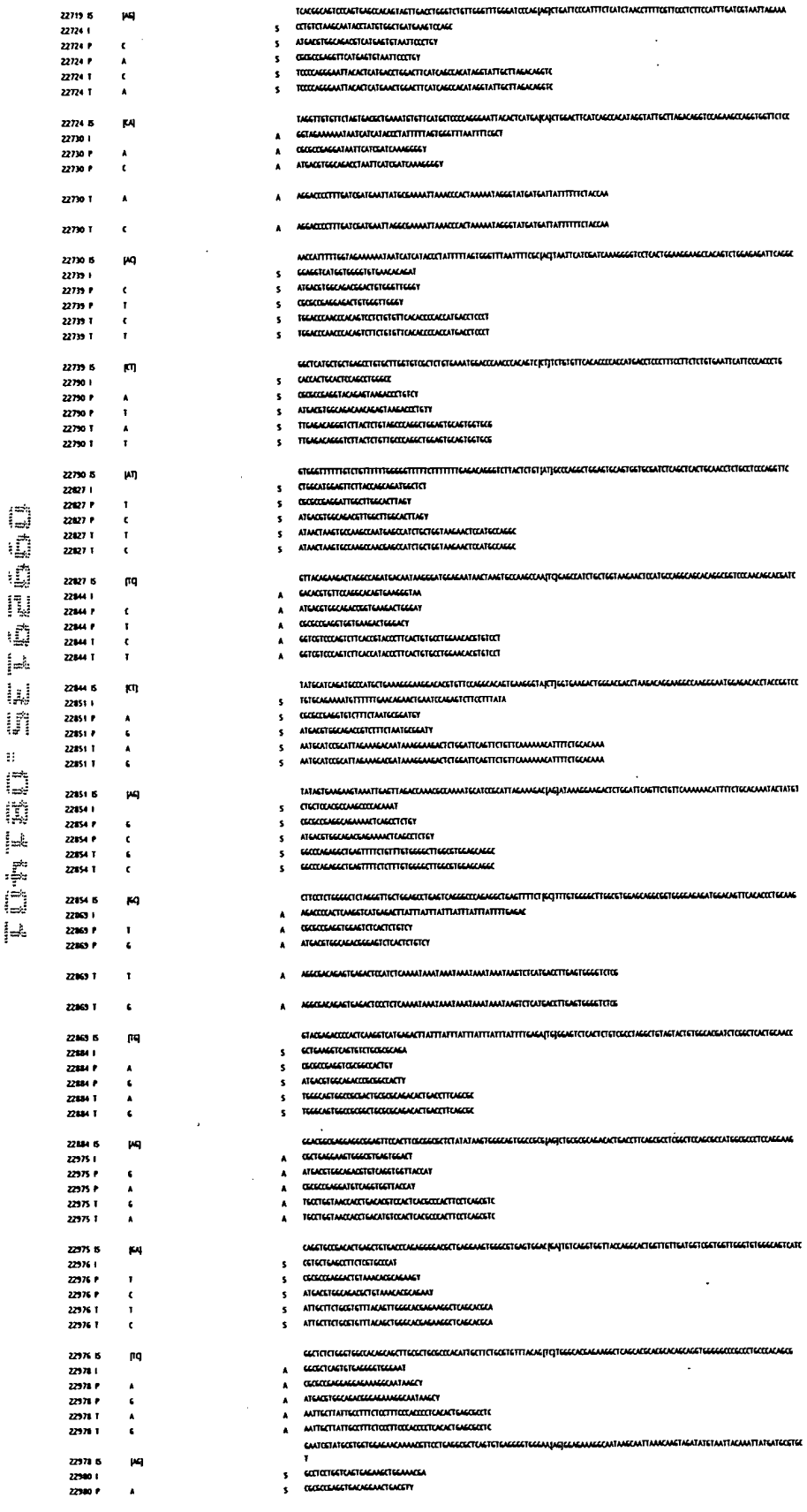


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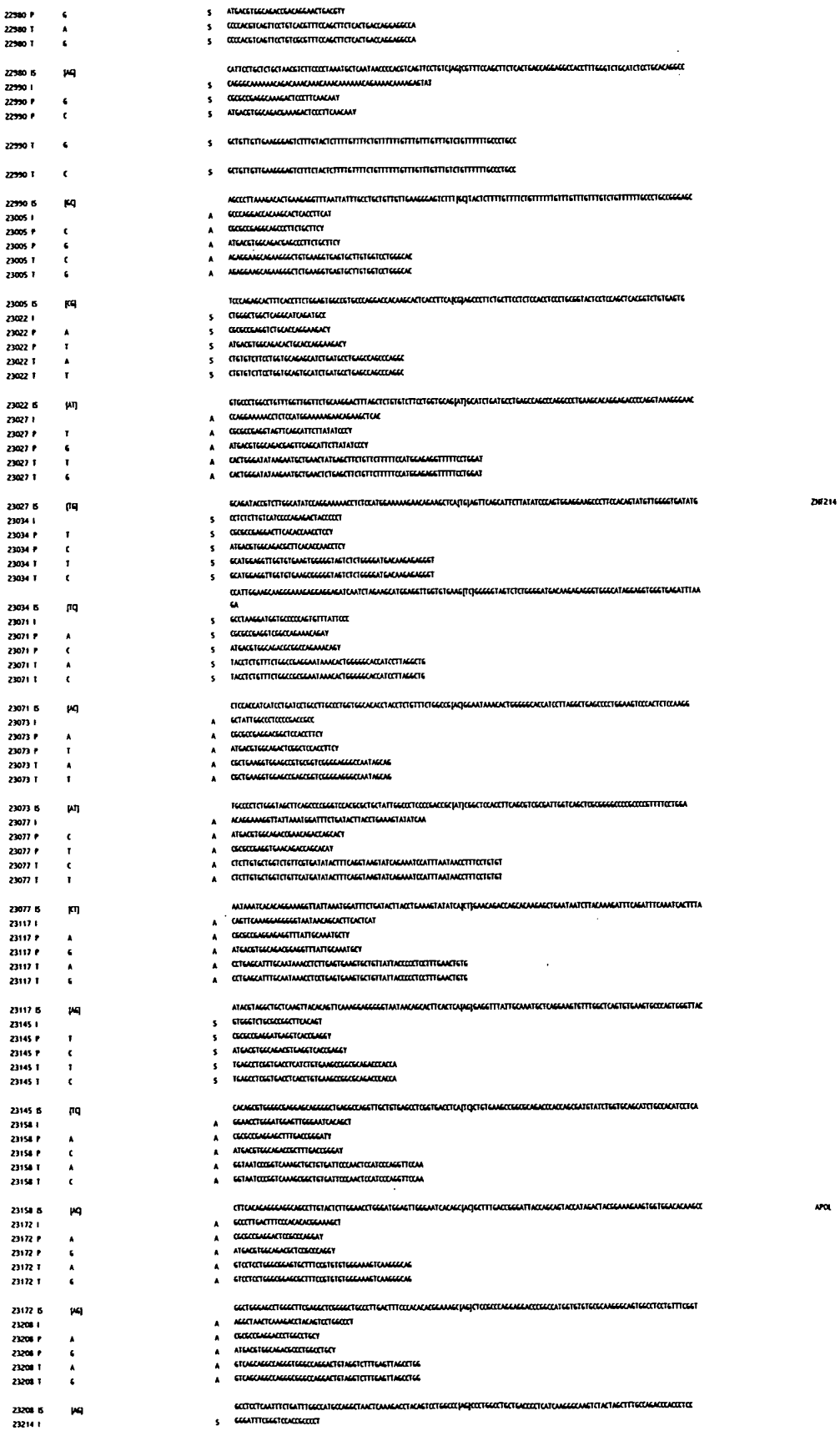


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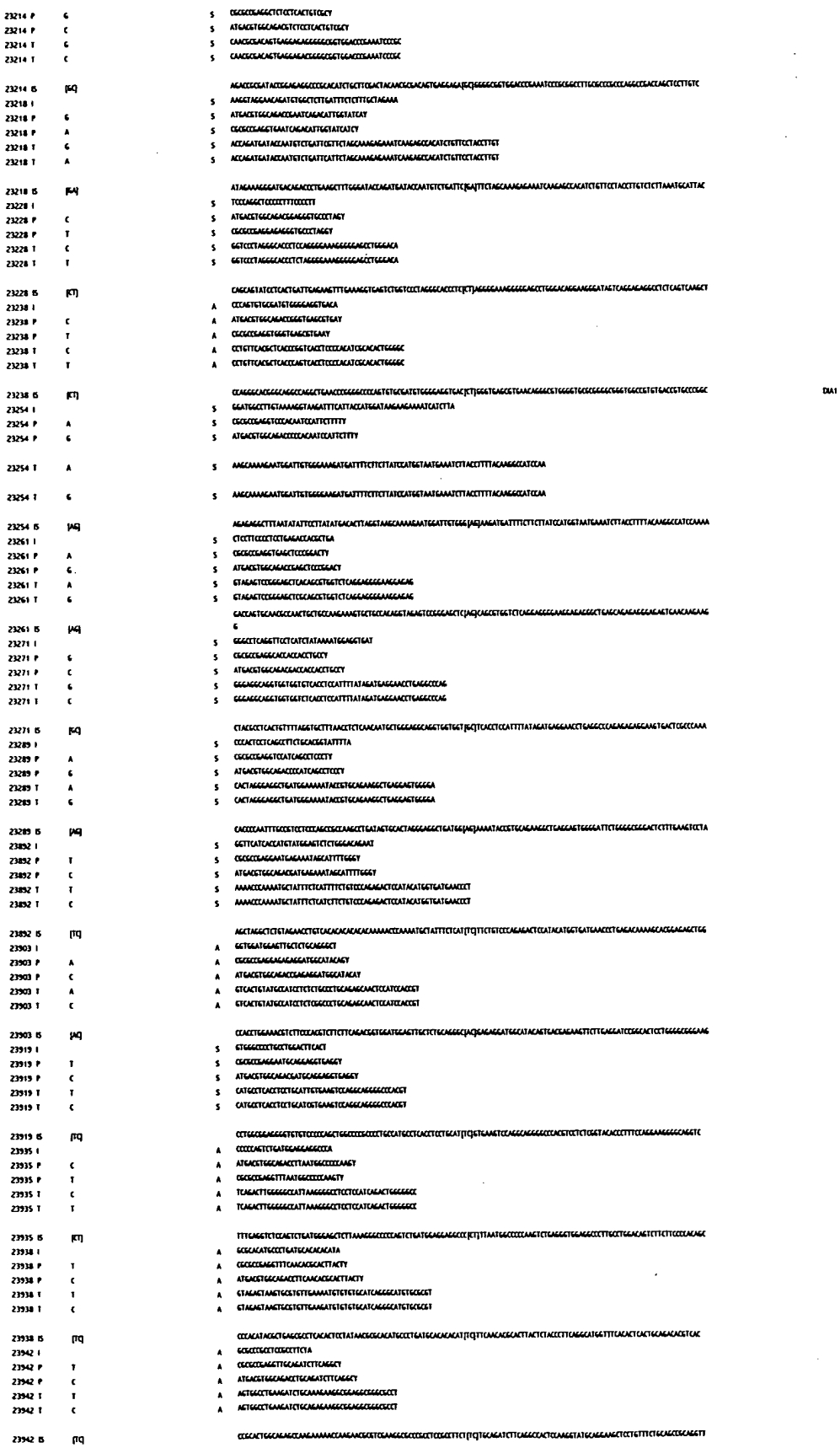


FIGURE 129F

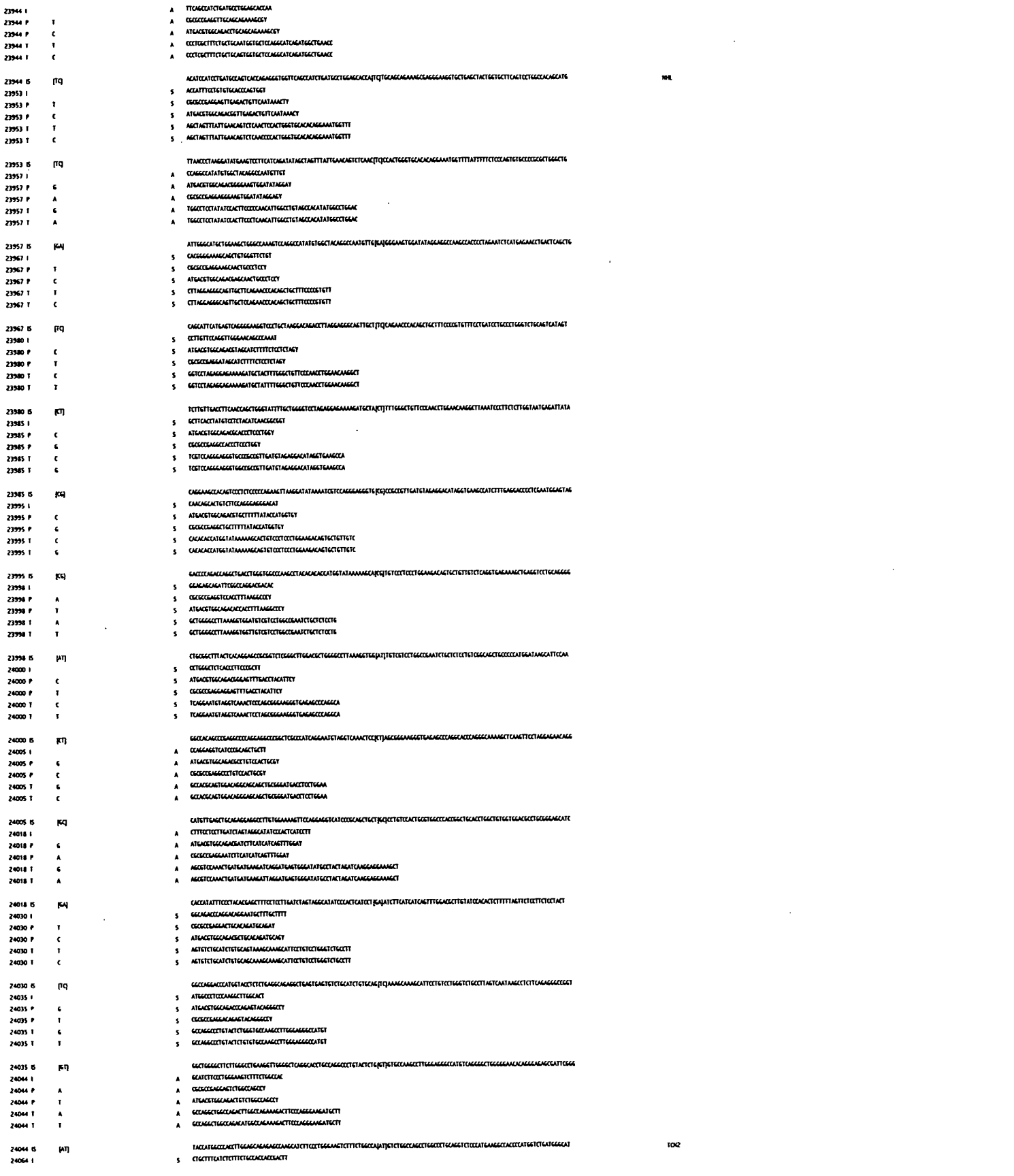
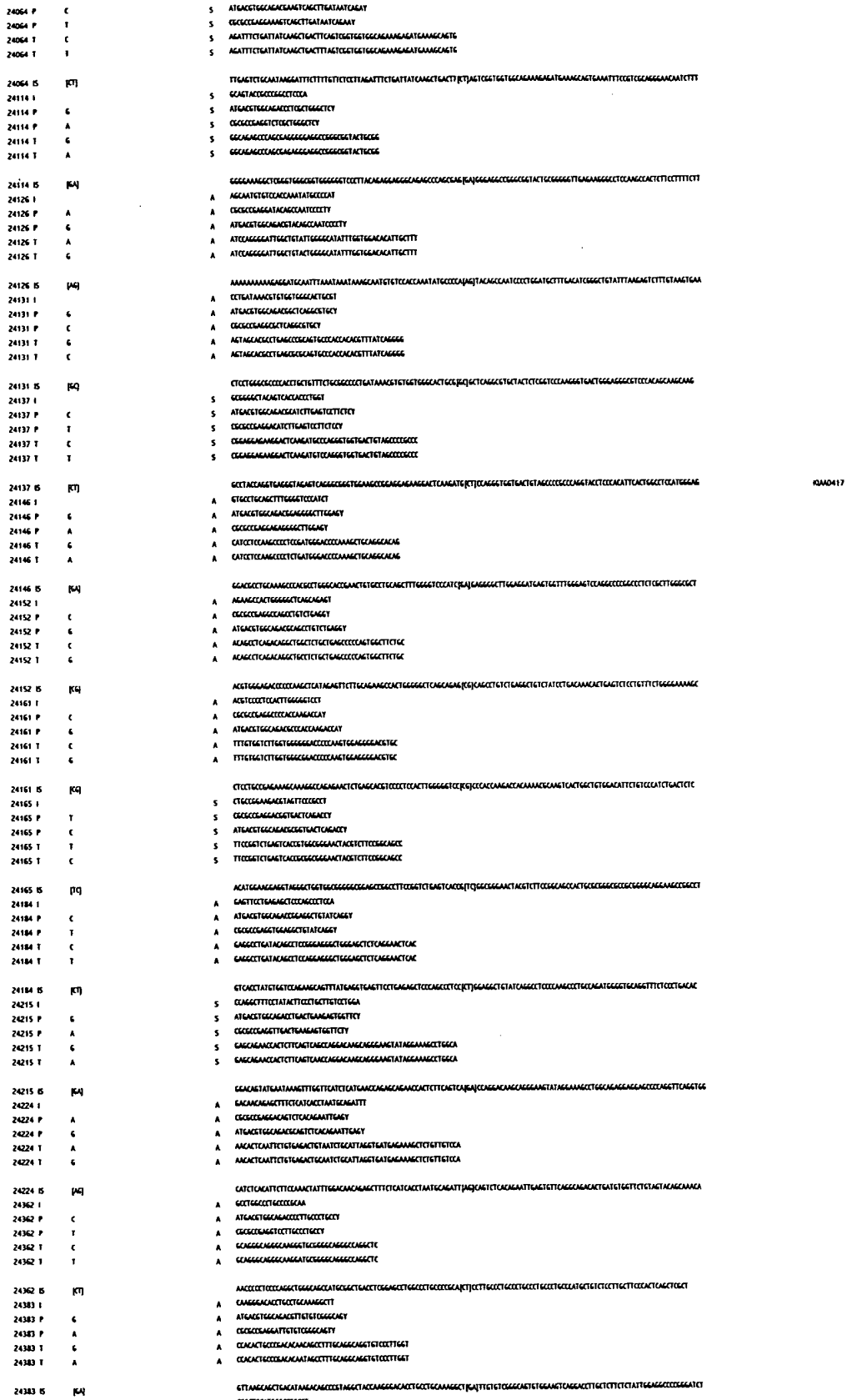
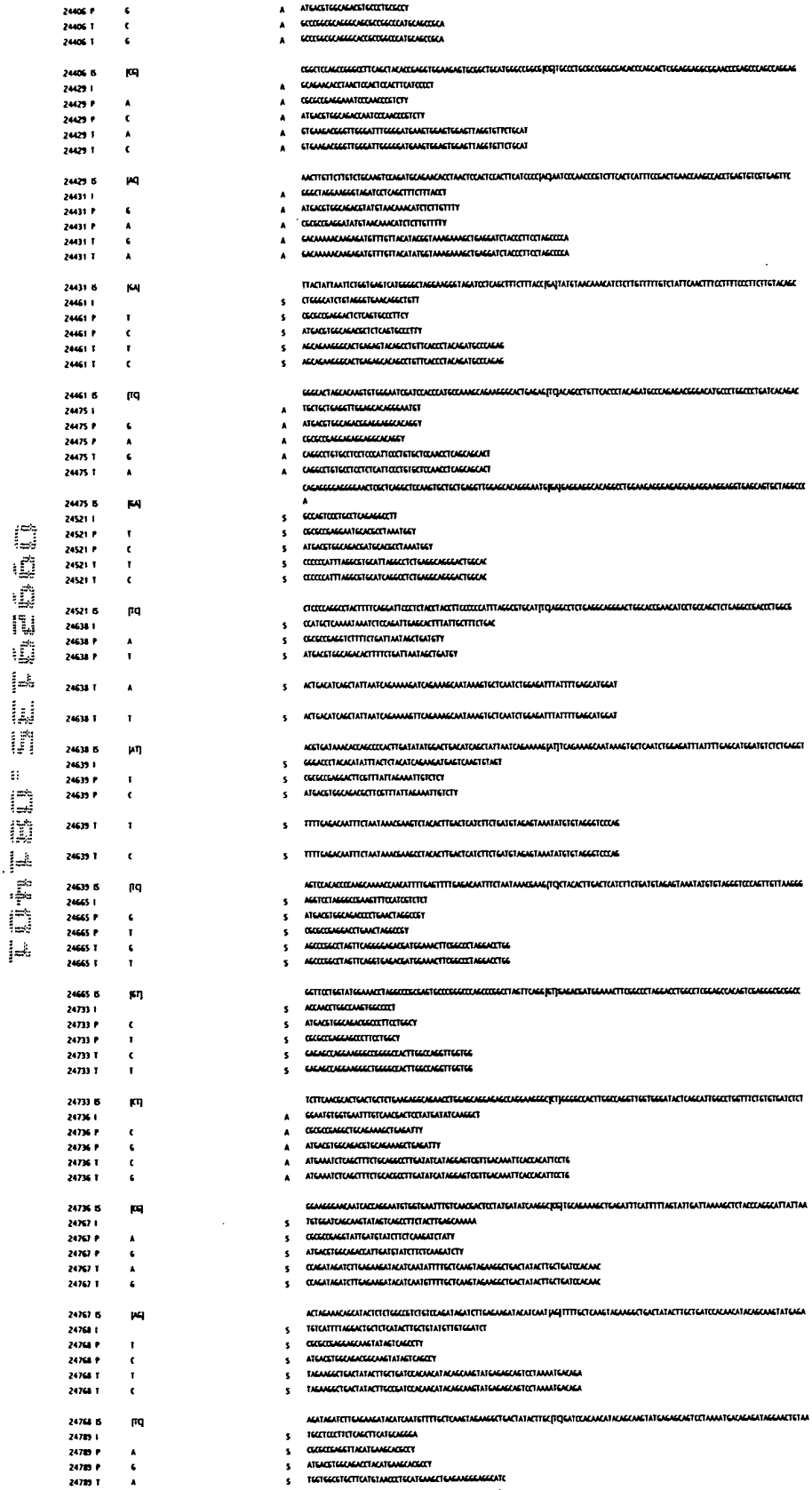
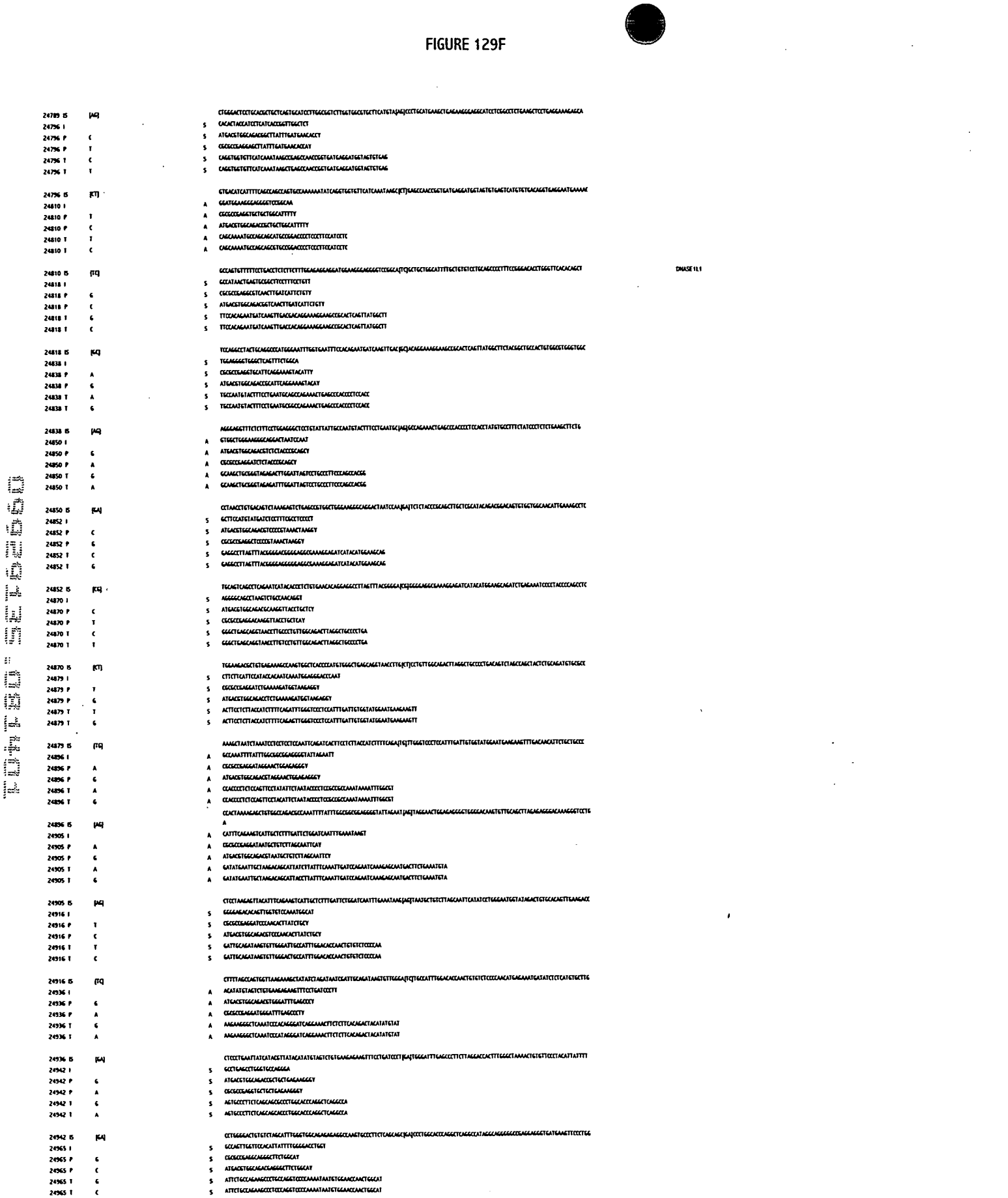


FIGURE 129F







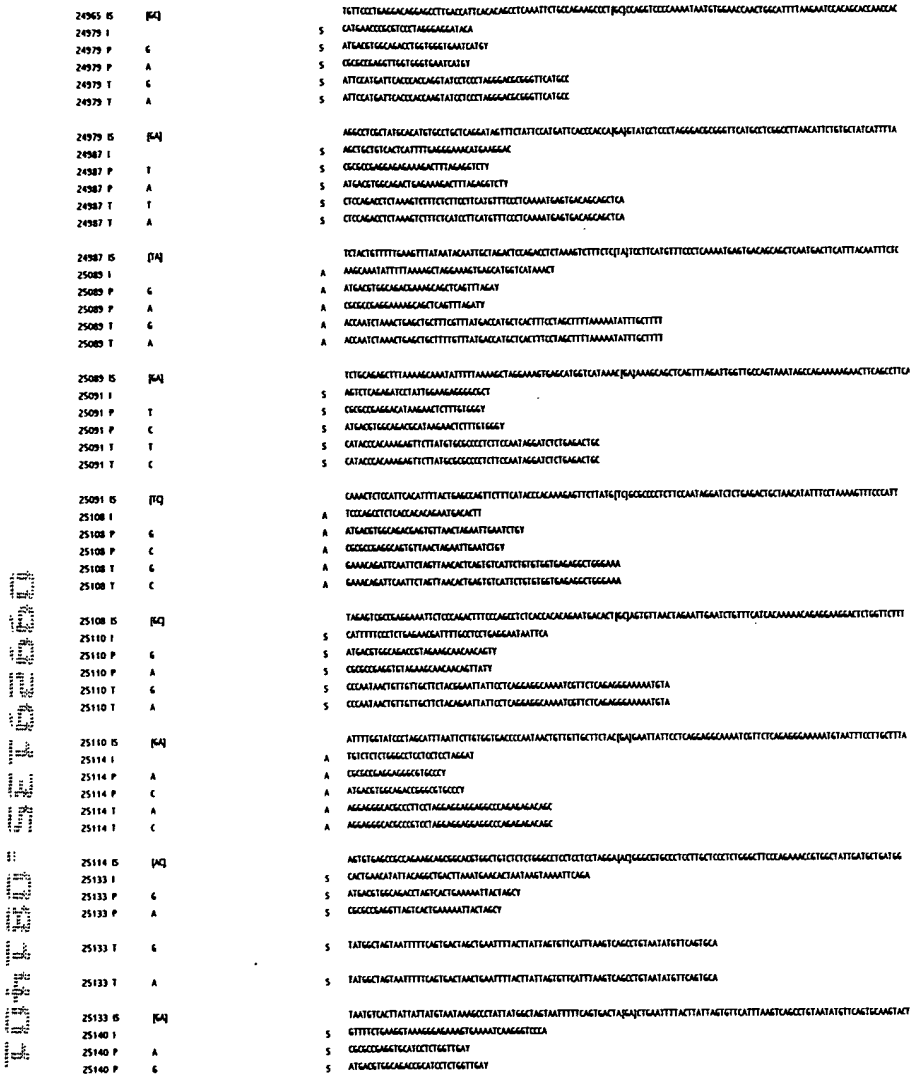


FIGURE 129F

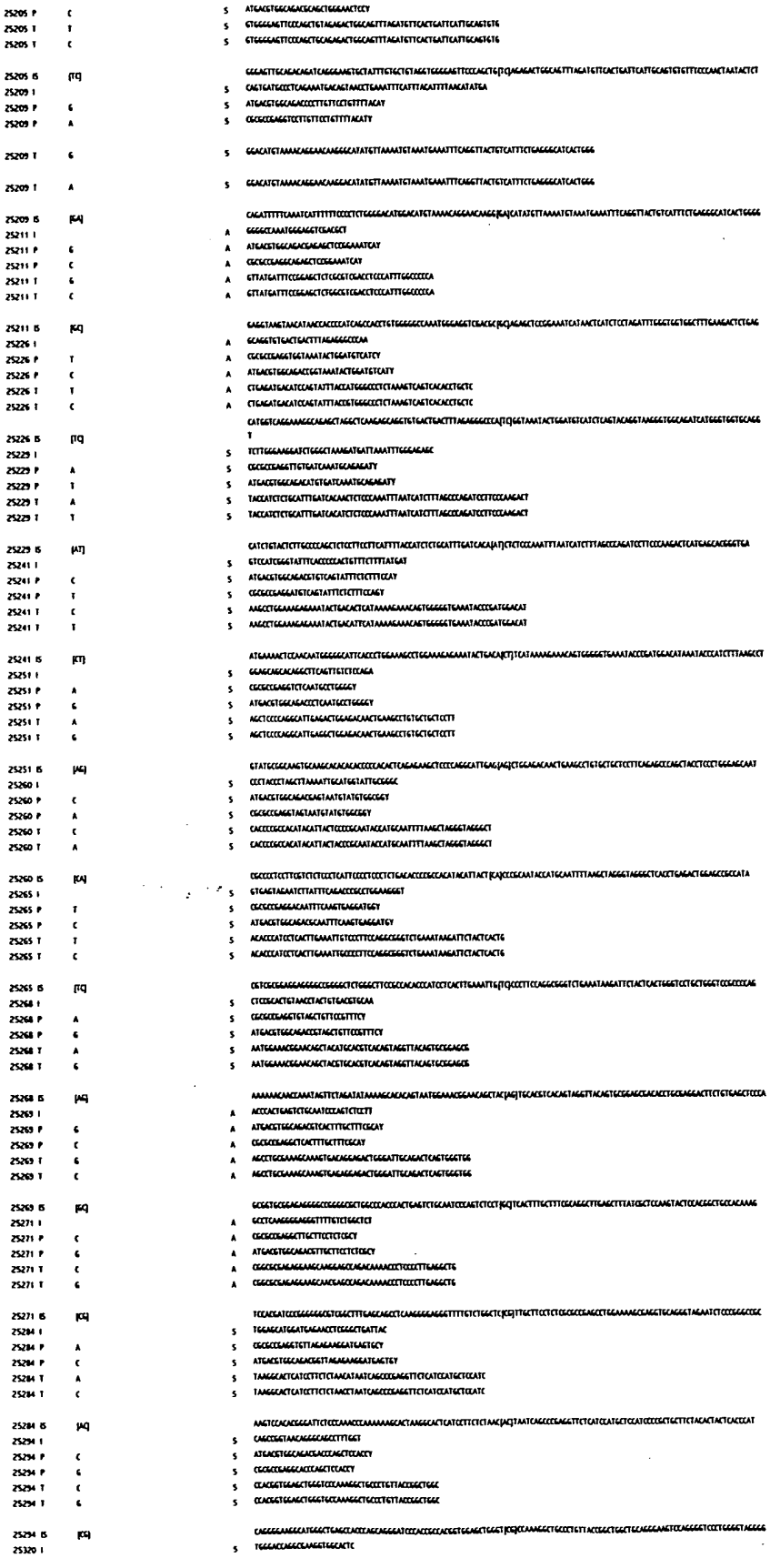


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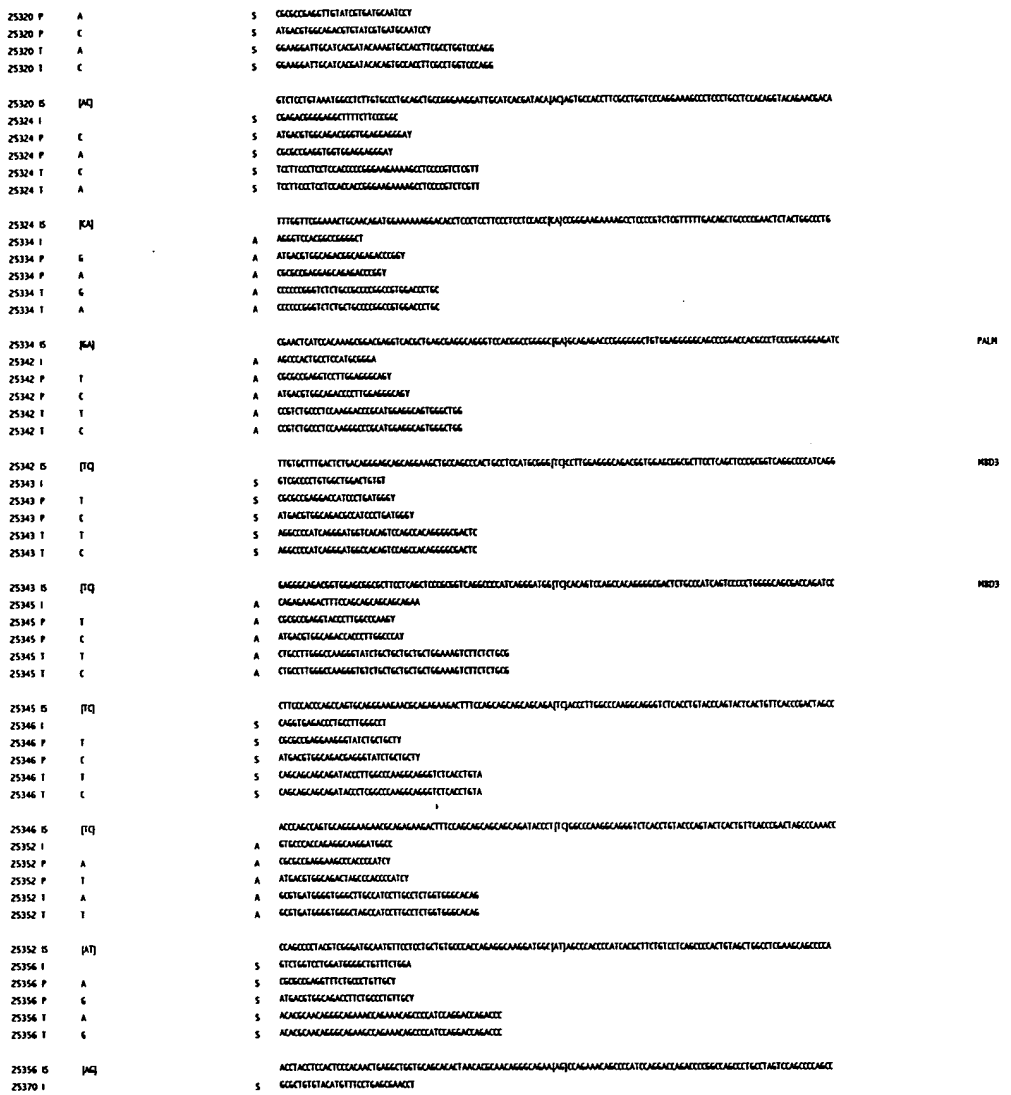
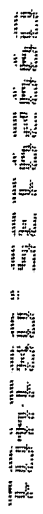
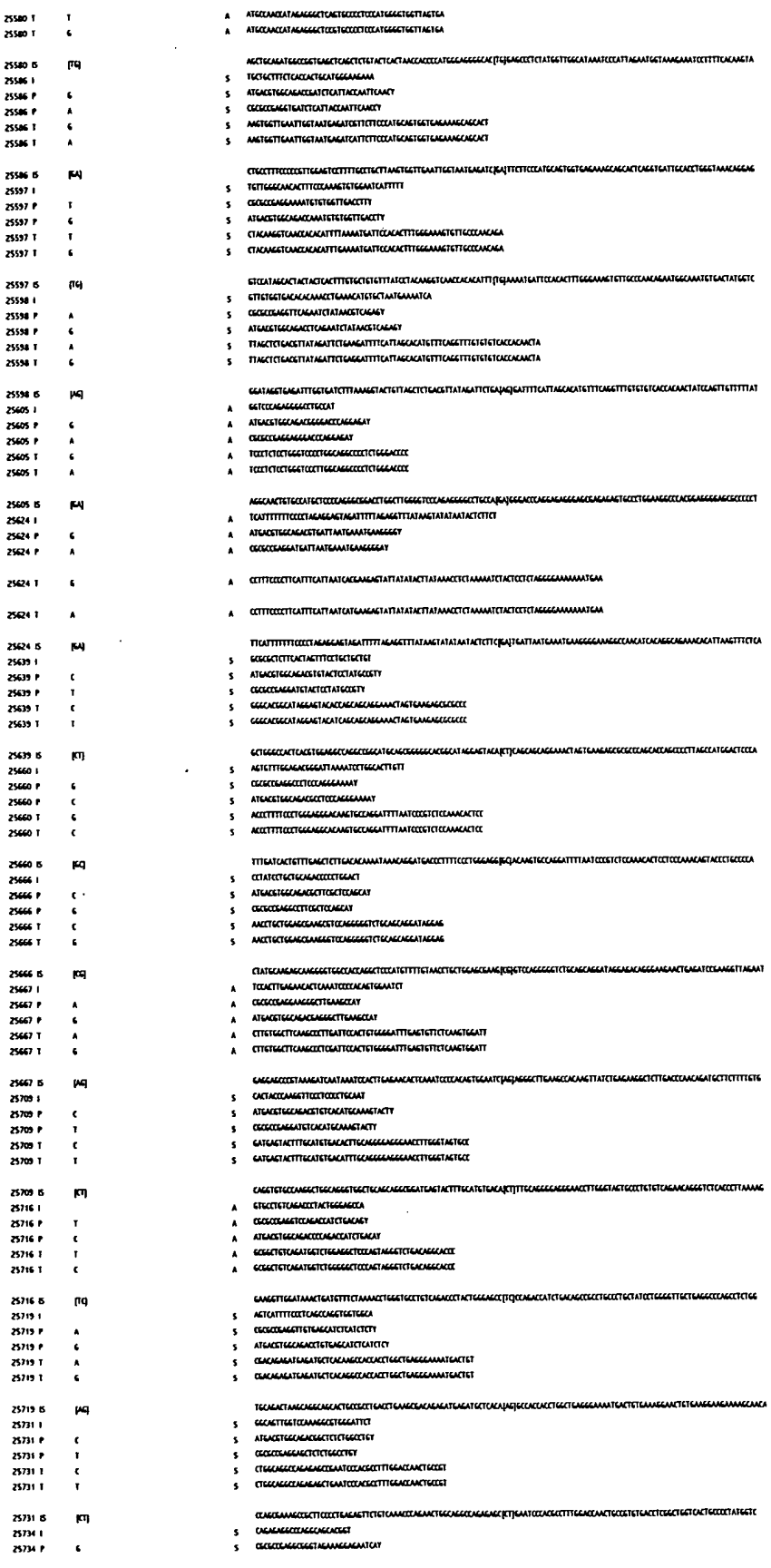


FIGURE 129F





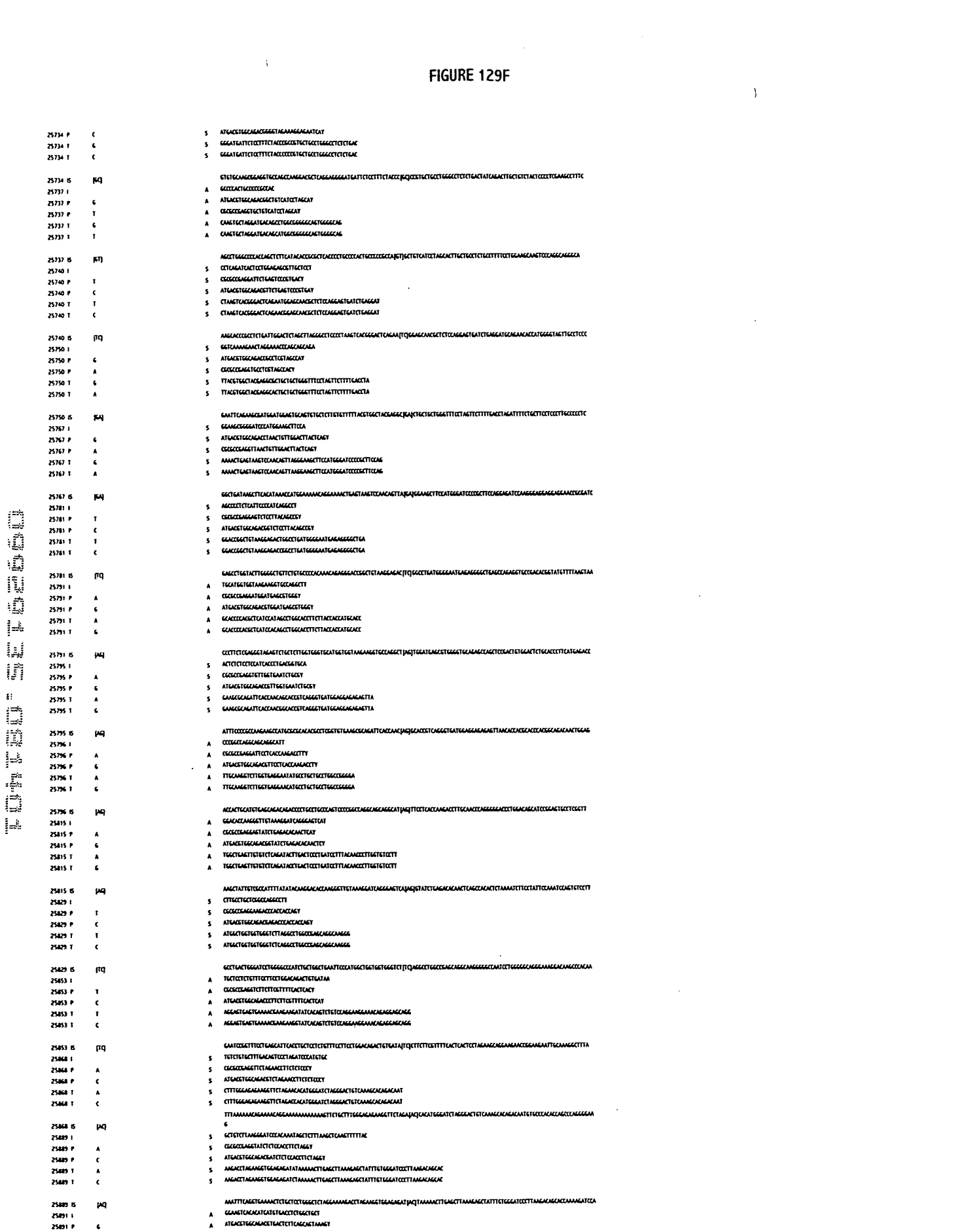


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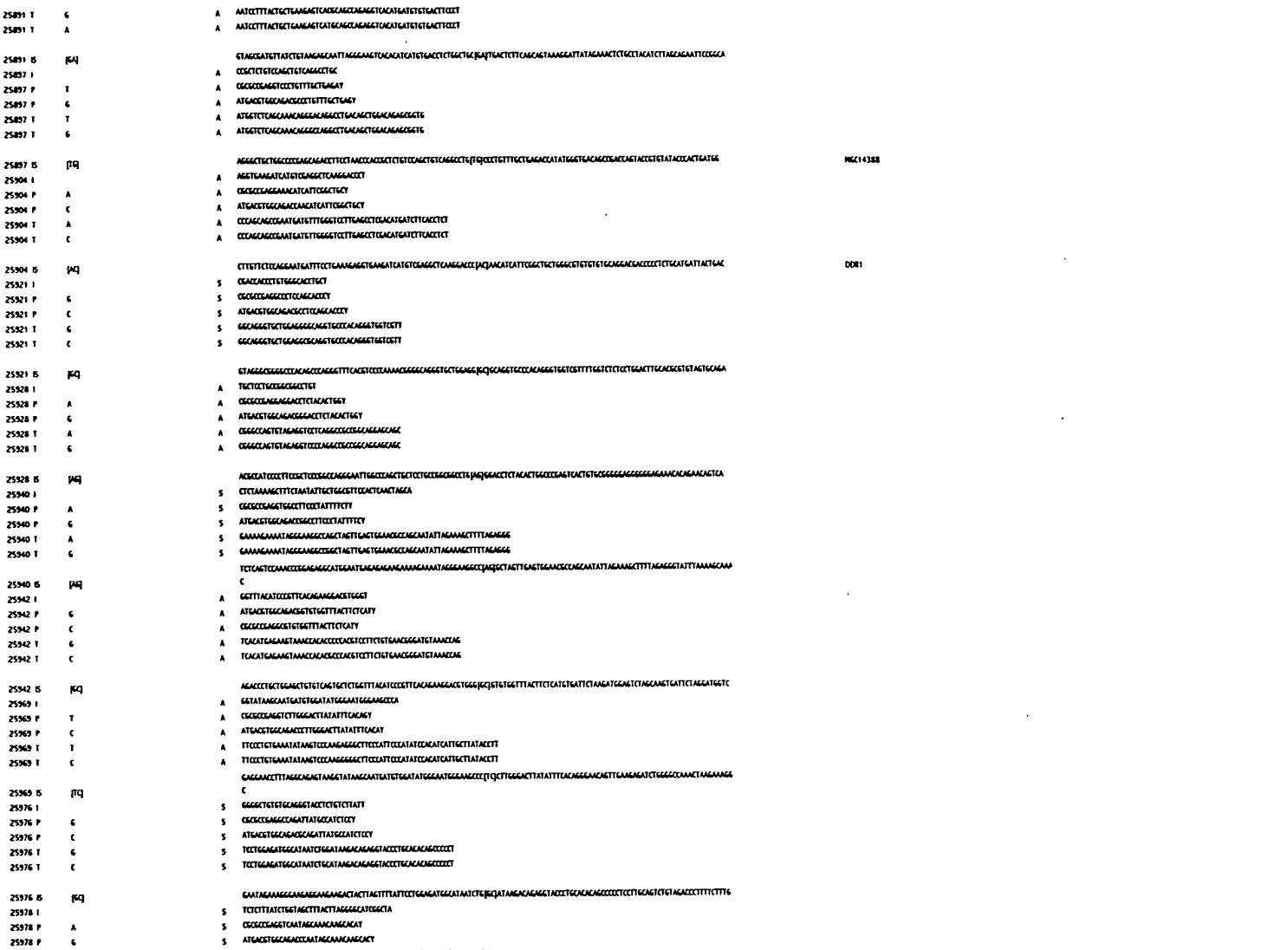


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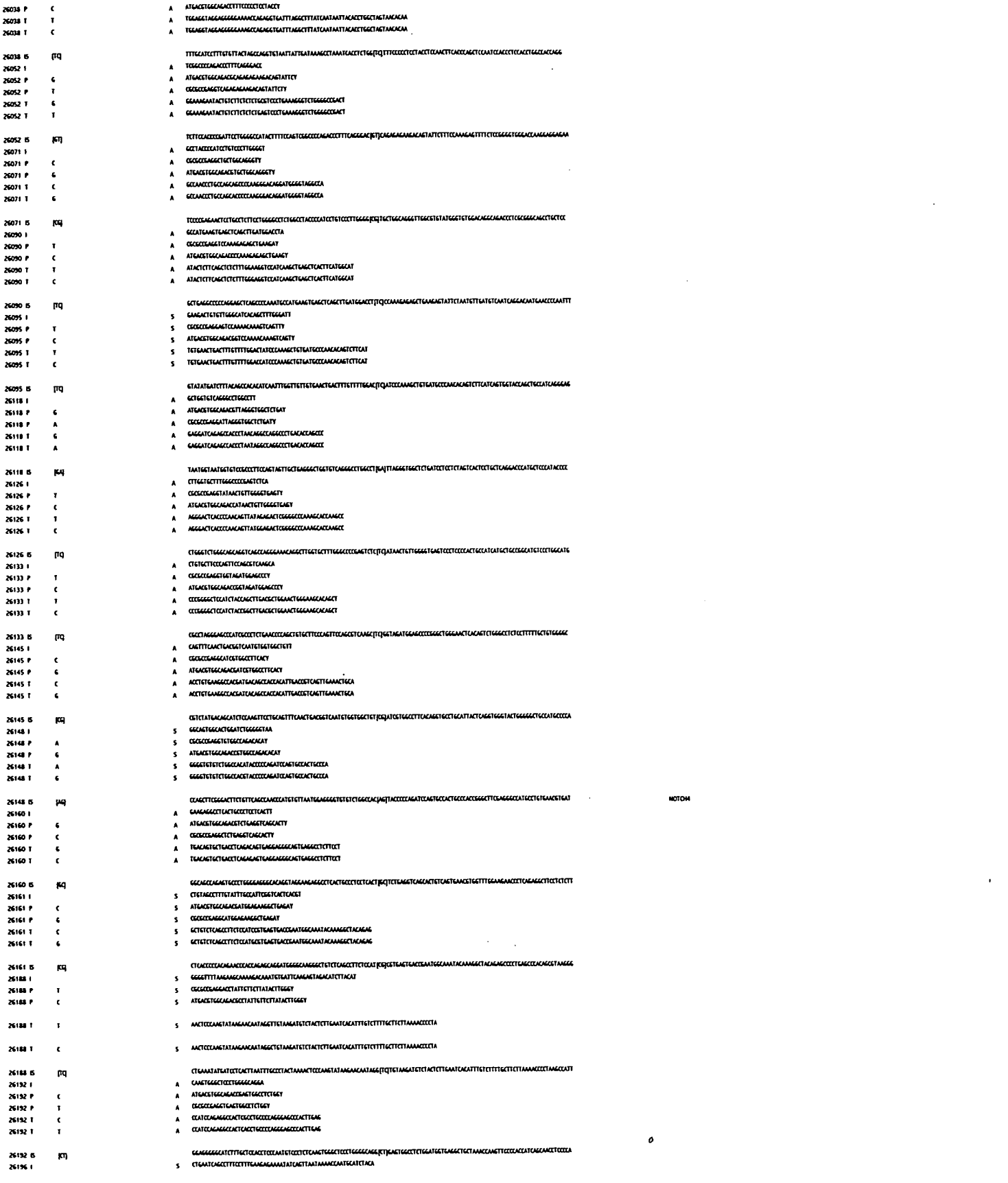
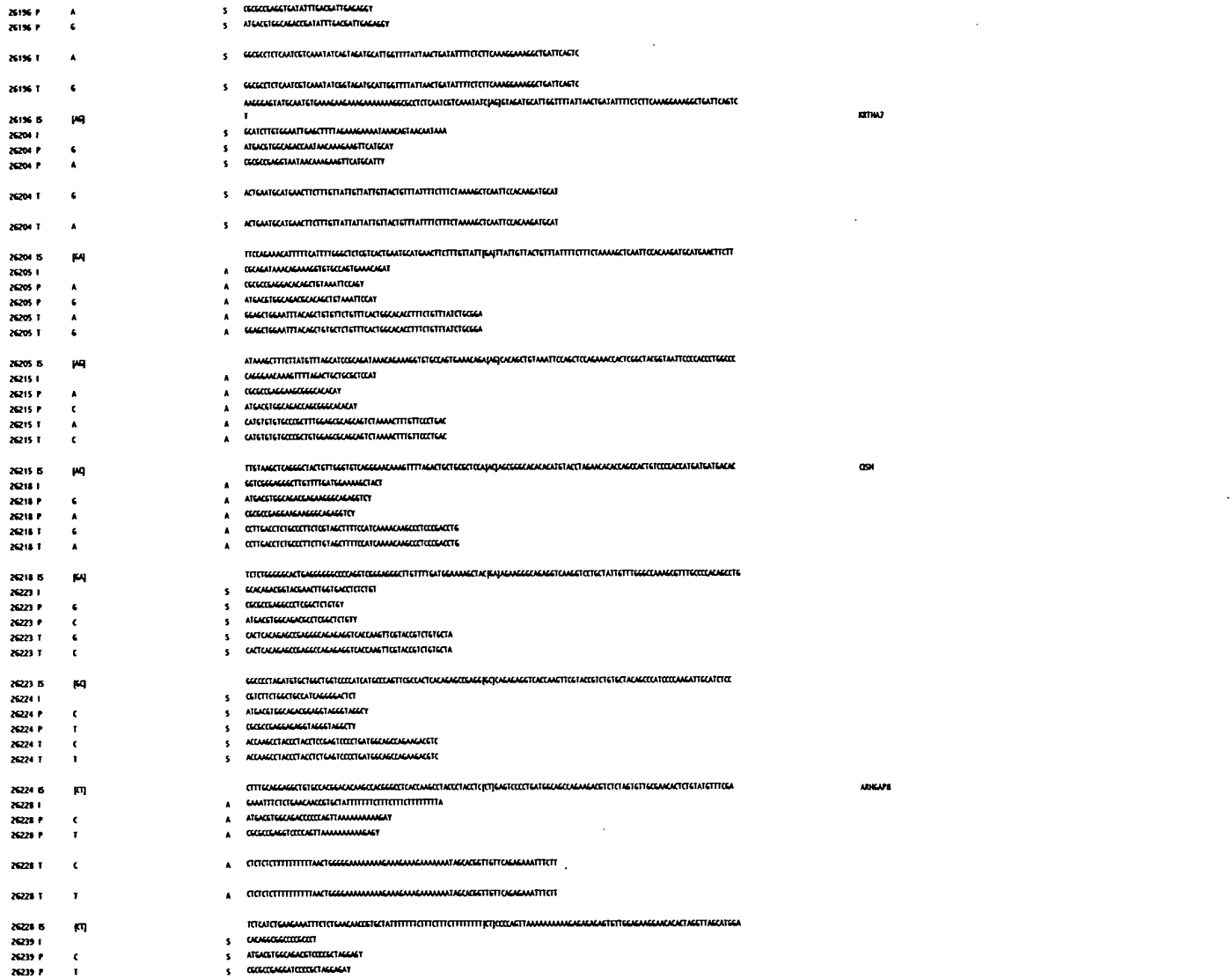


FIGURE 129F



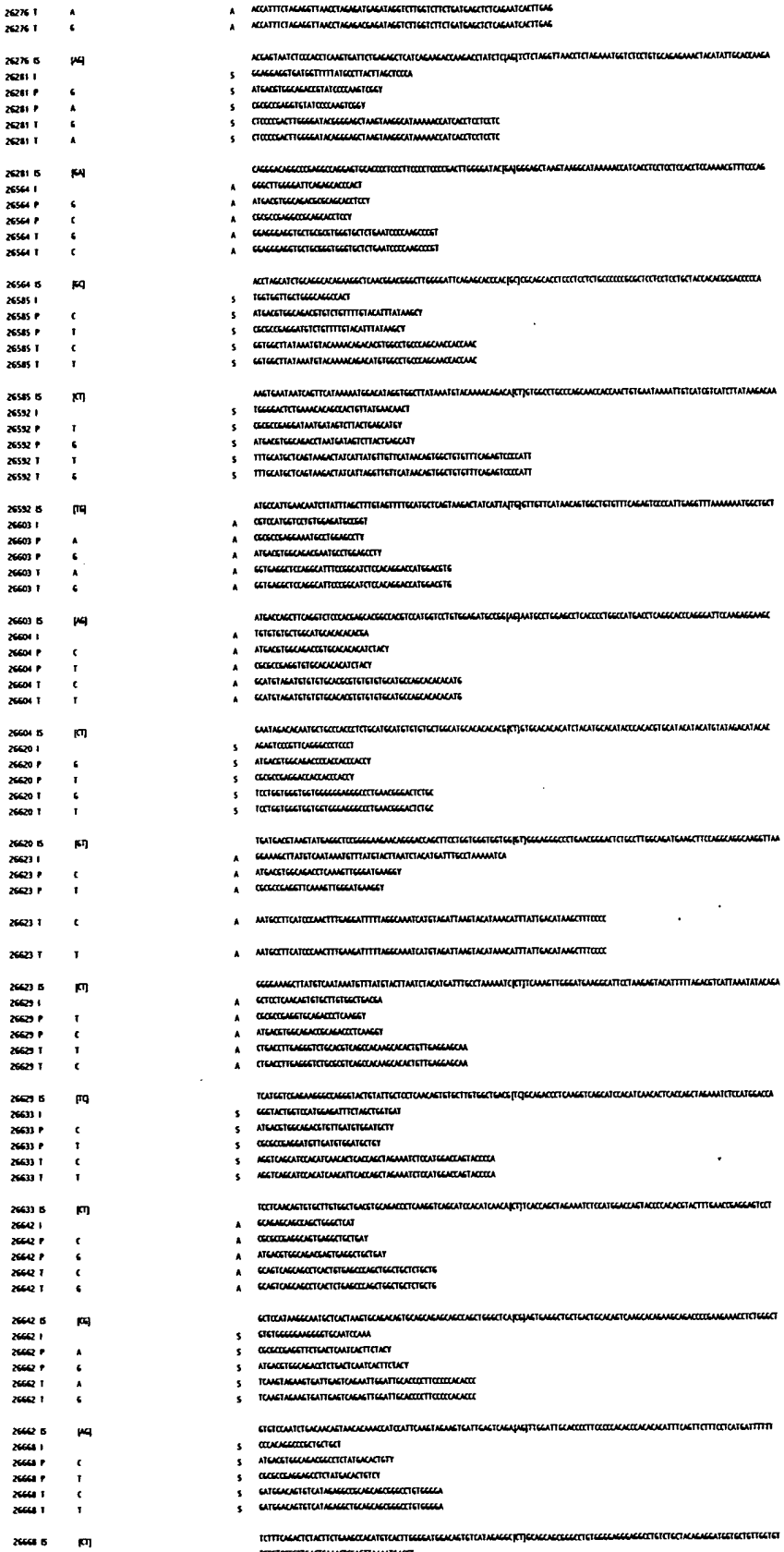


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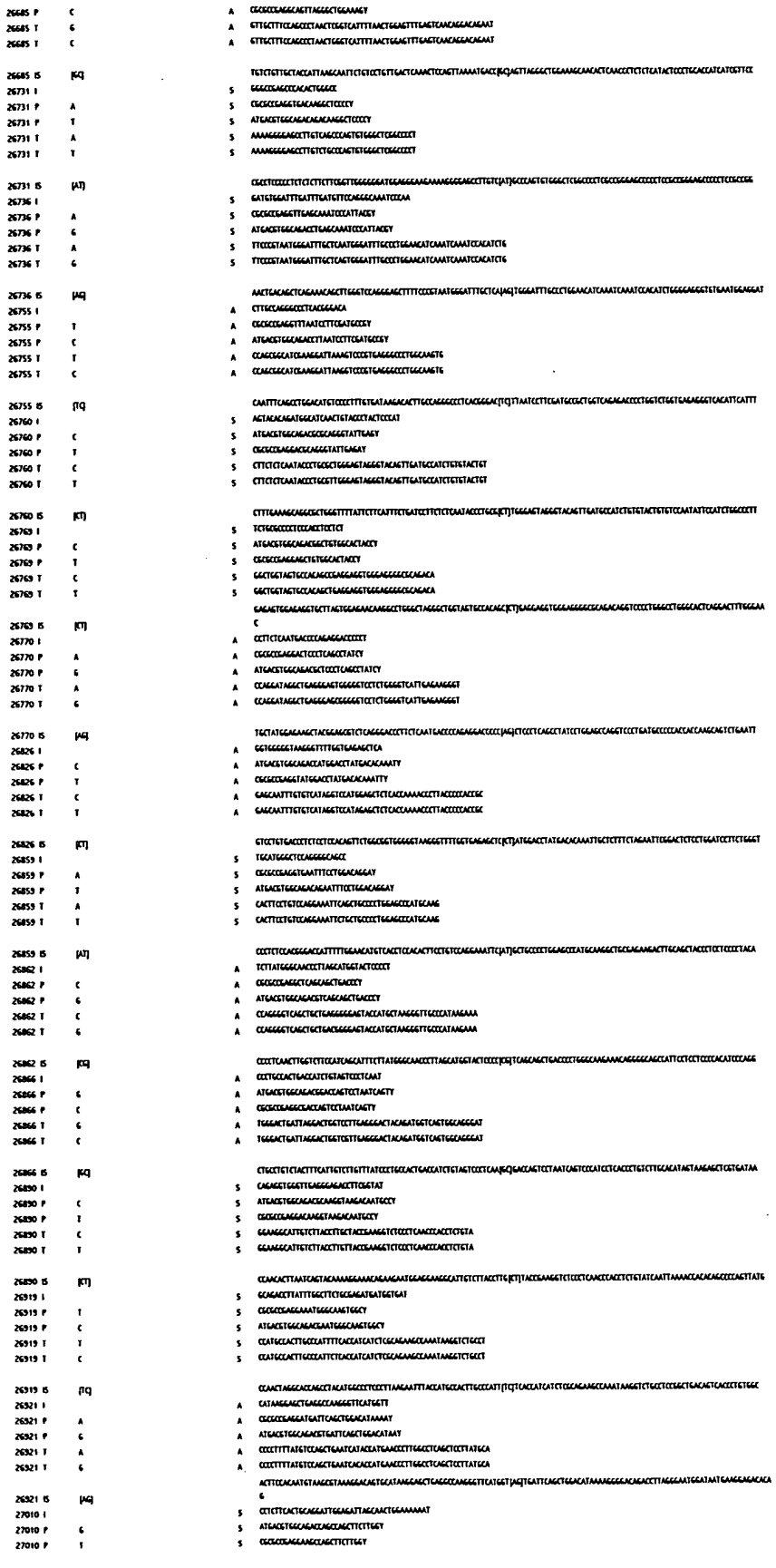
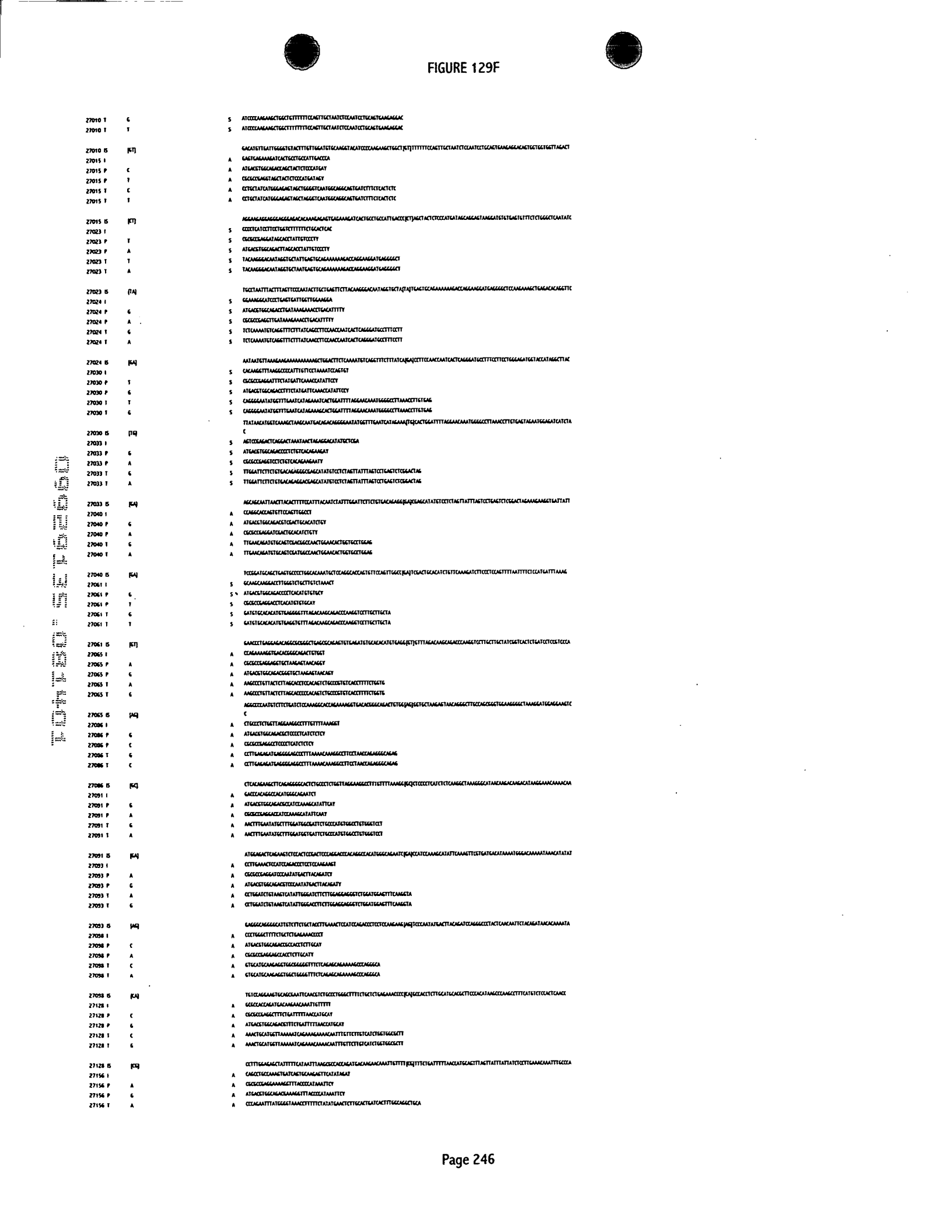


FIGURE 129F



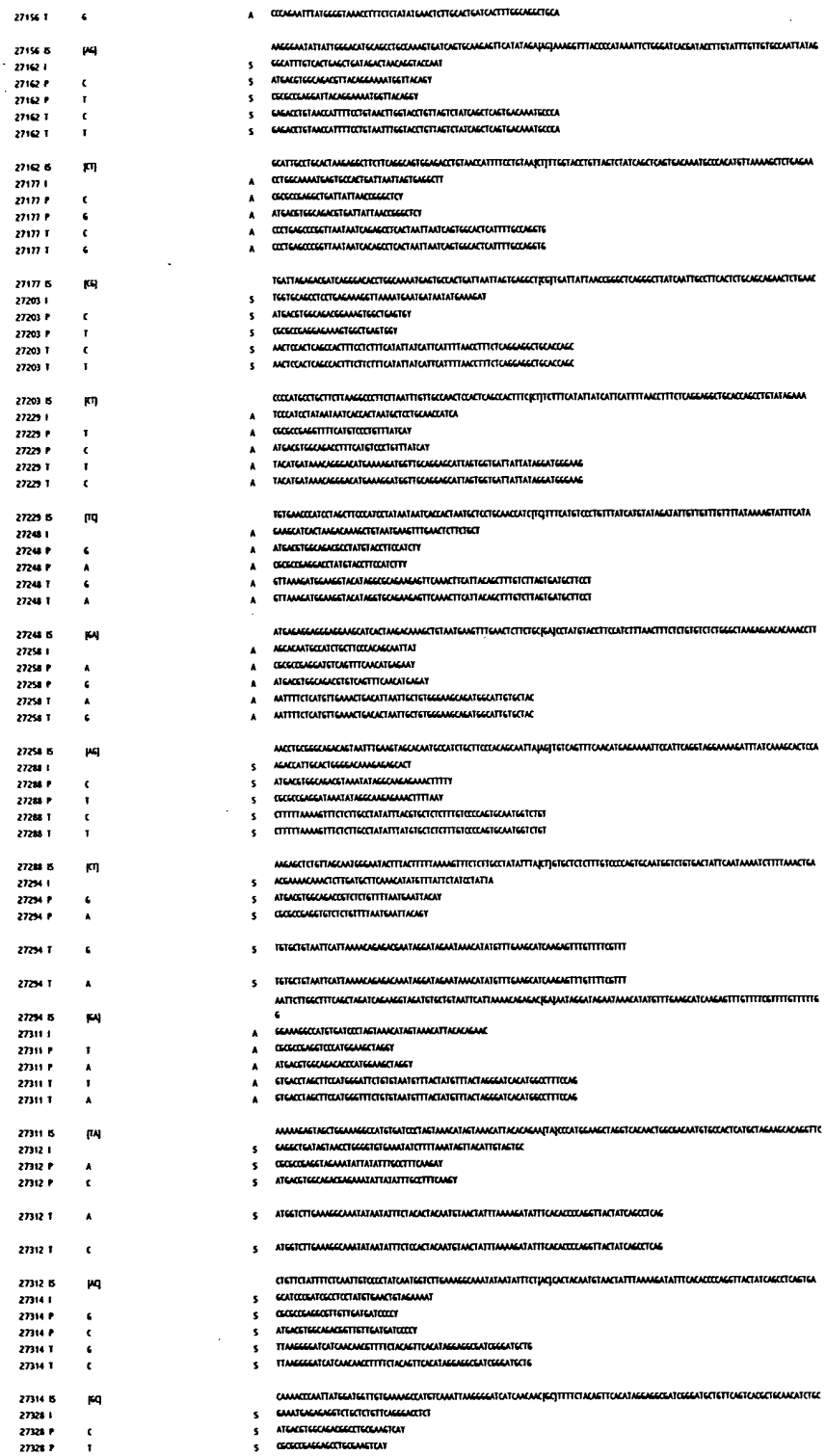
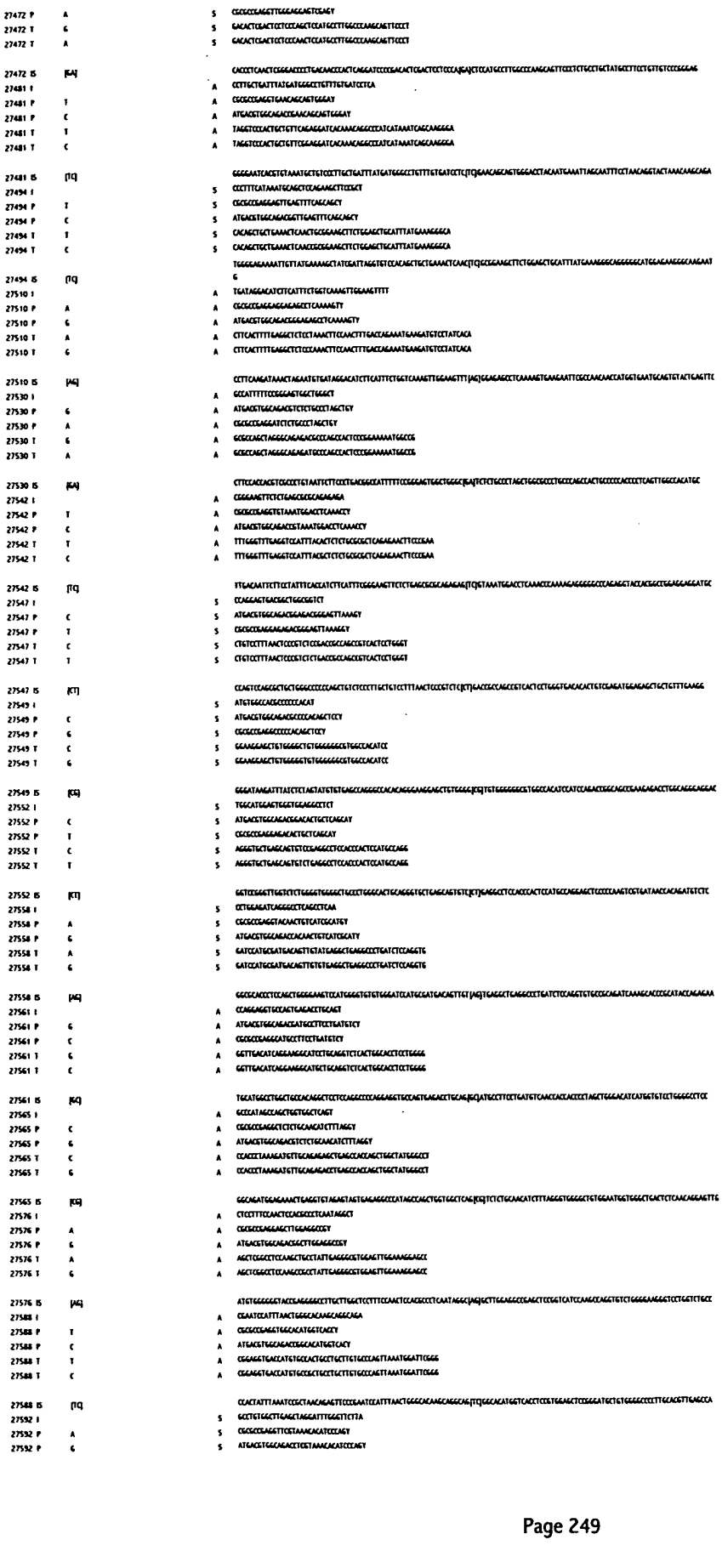


FIGURE 129F





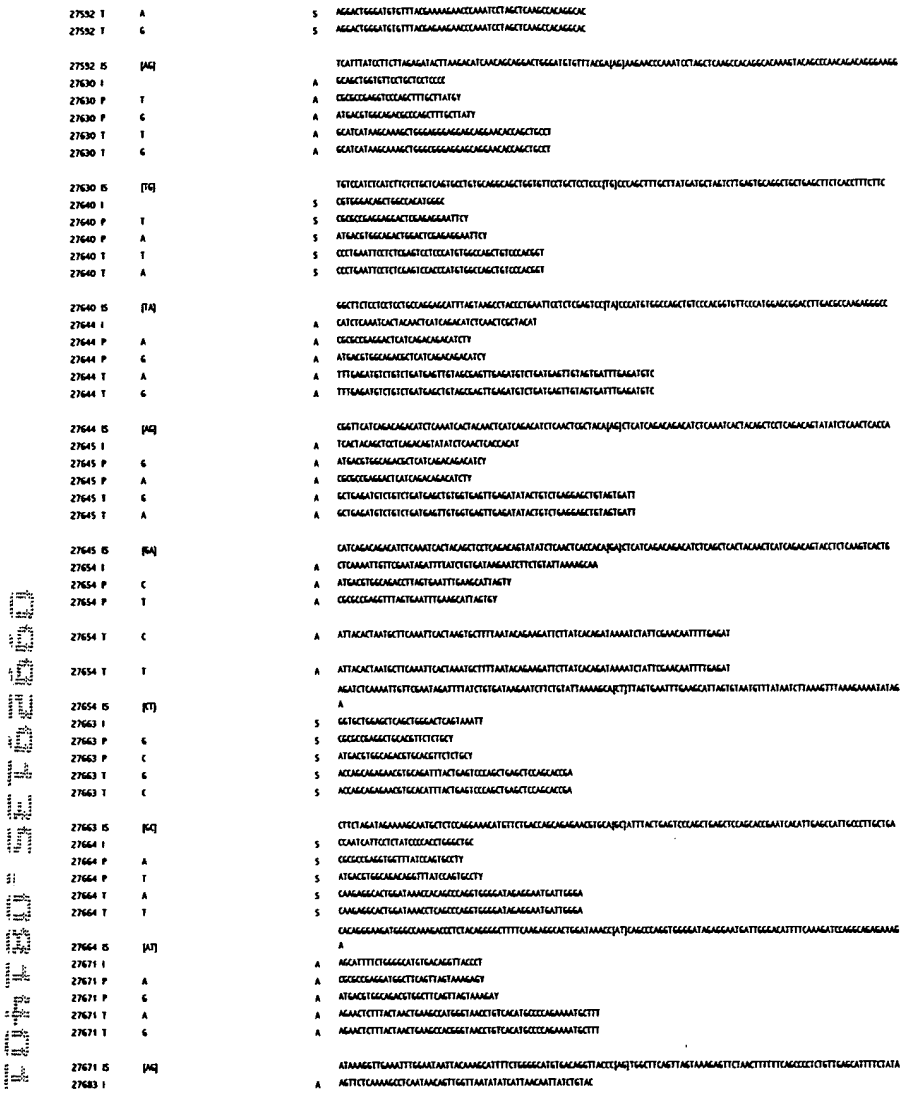
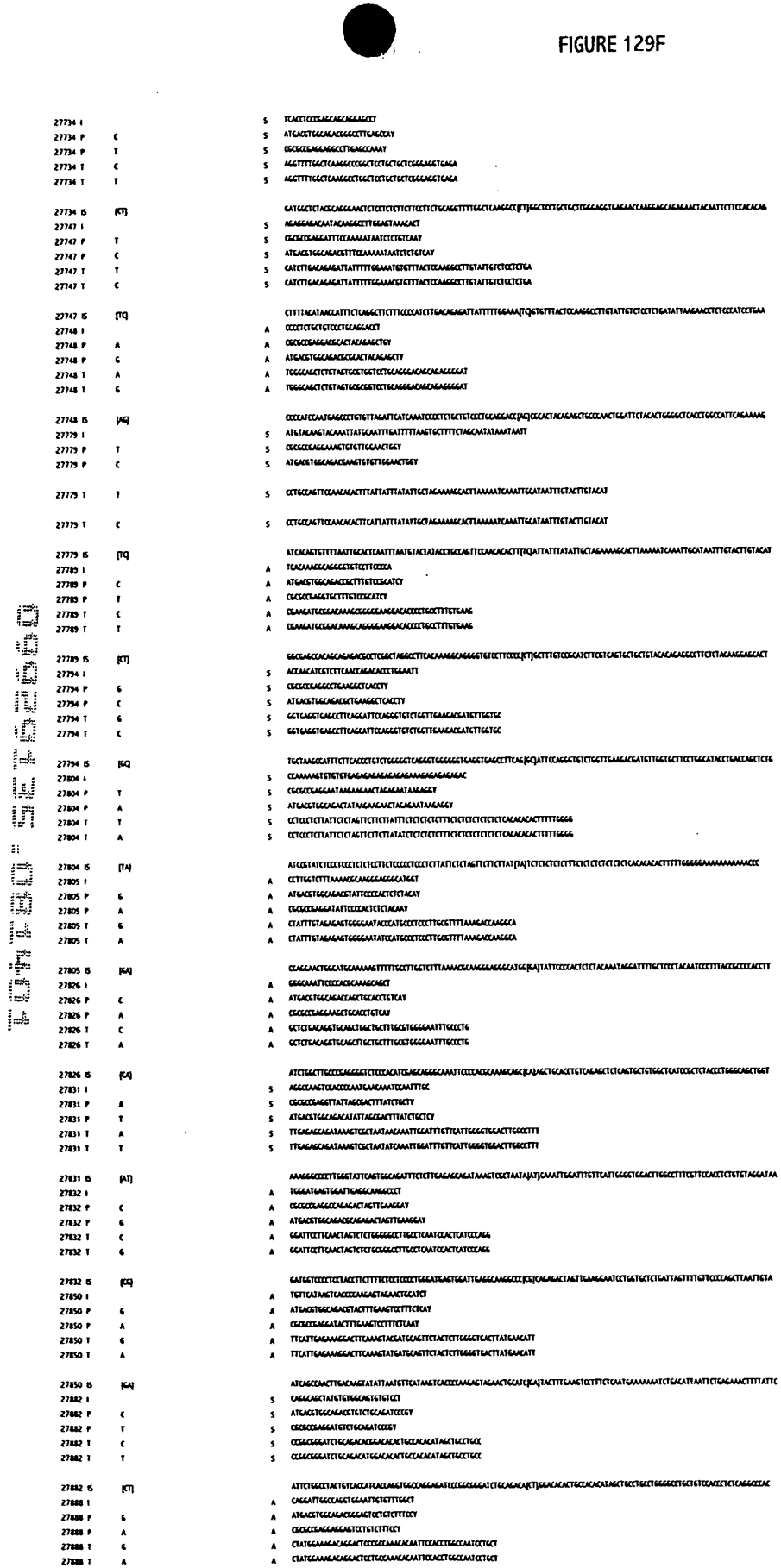


FIGURE 129F



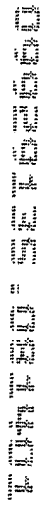
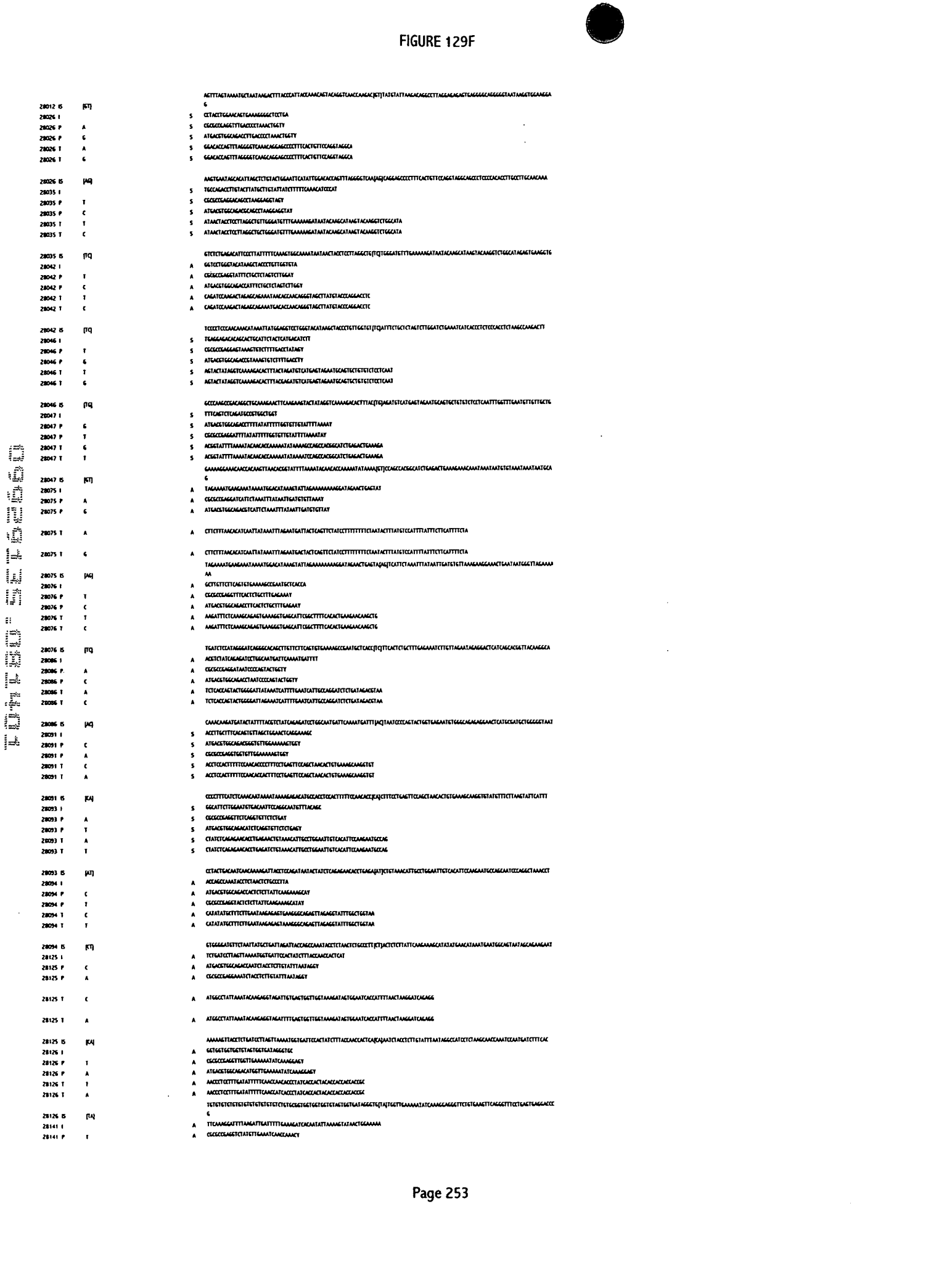
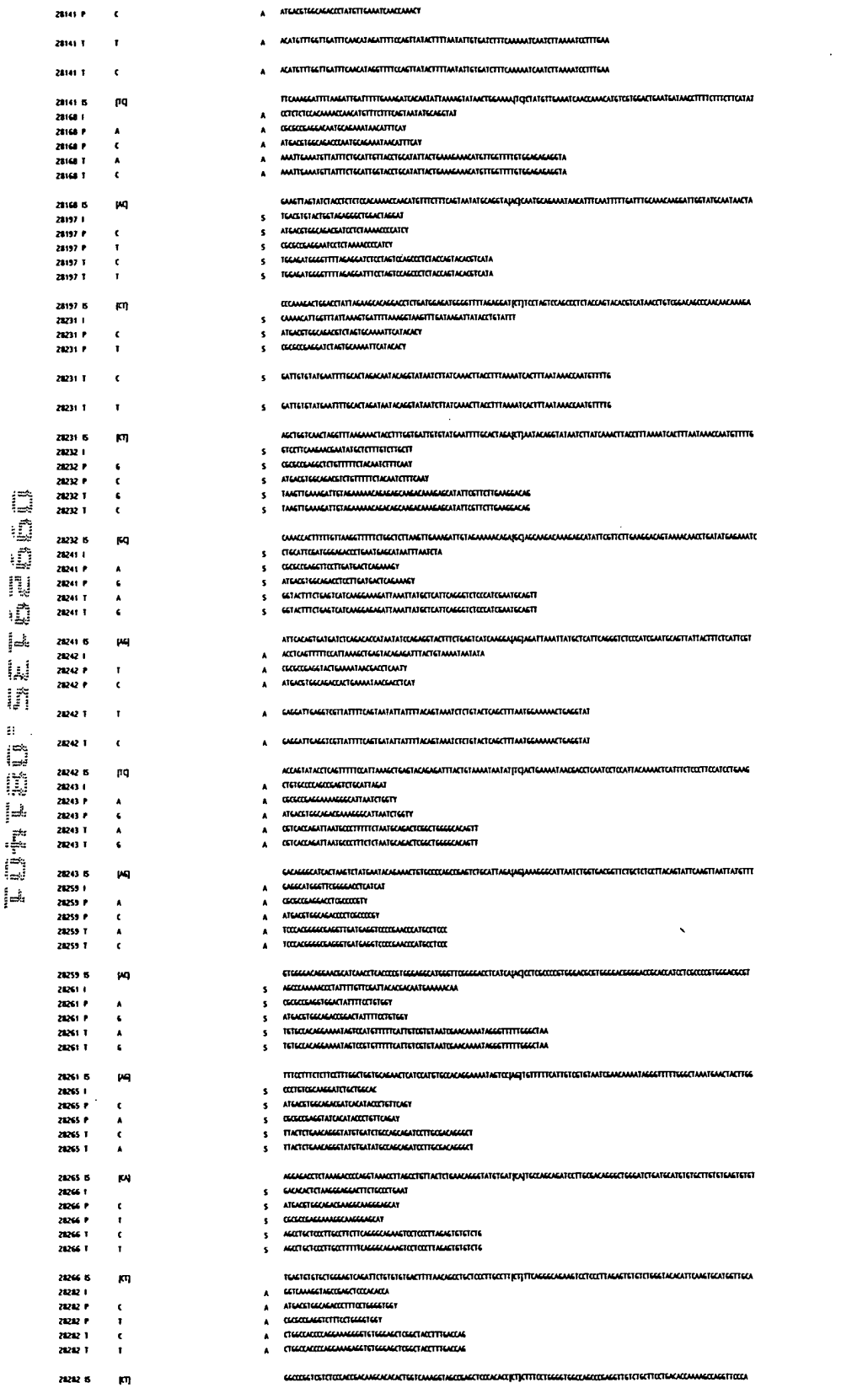
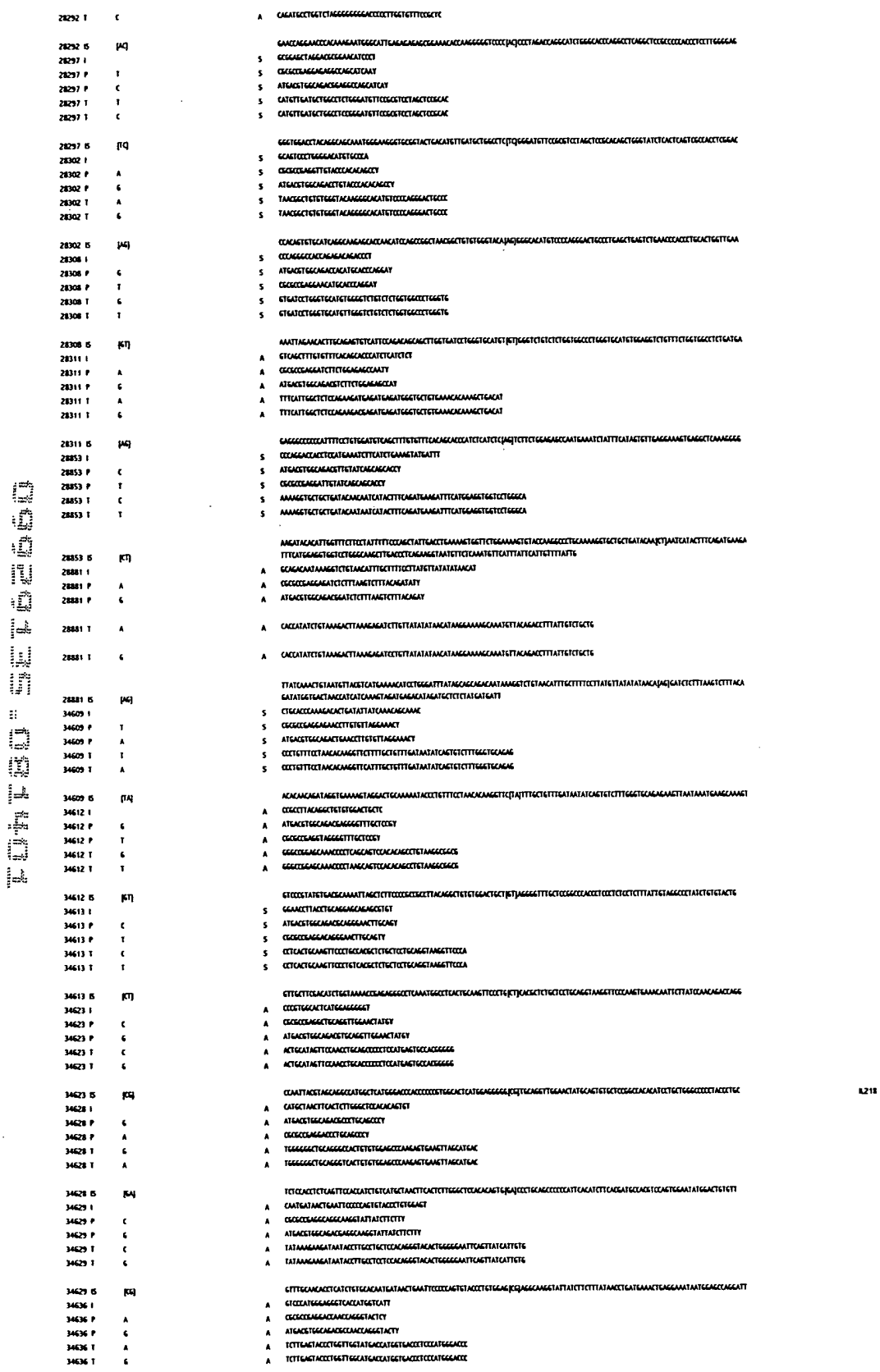
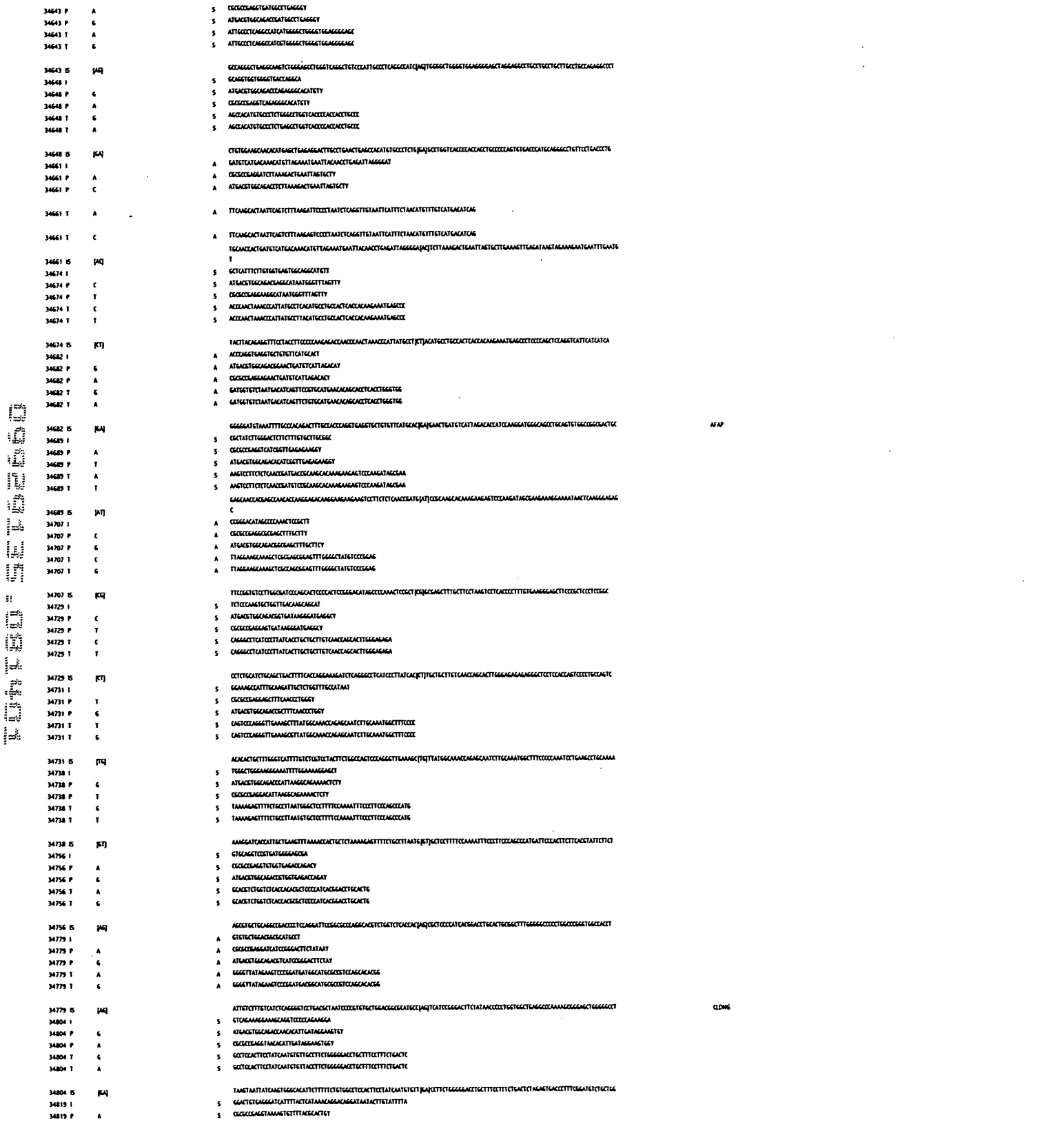


FIGURE 129F









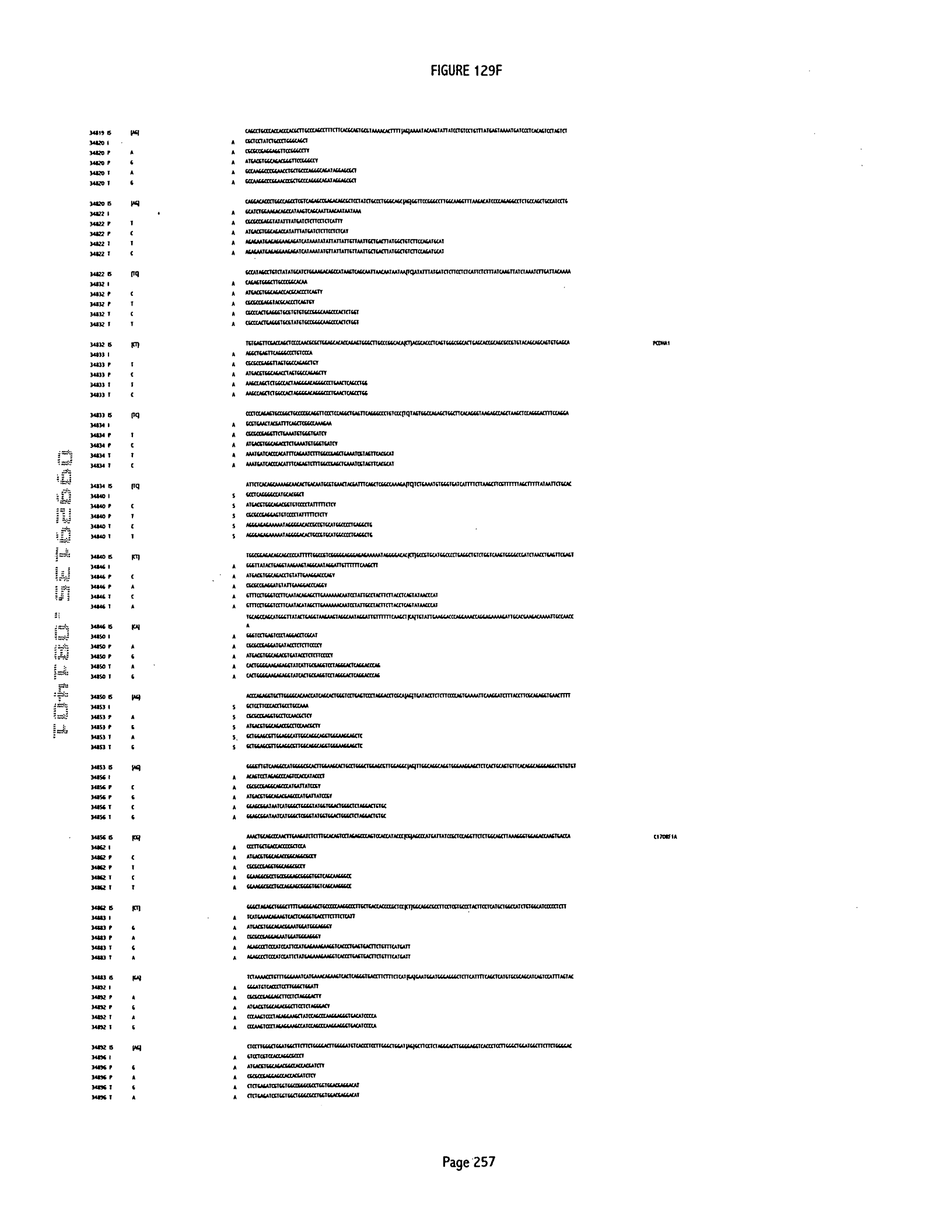


FIGURE 129F

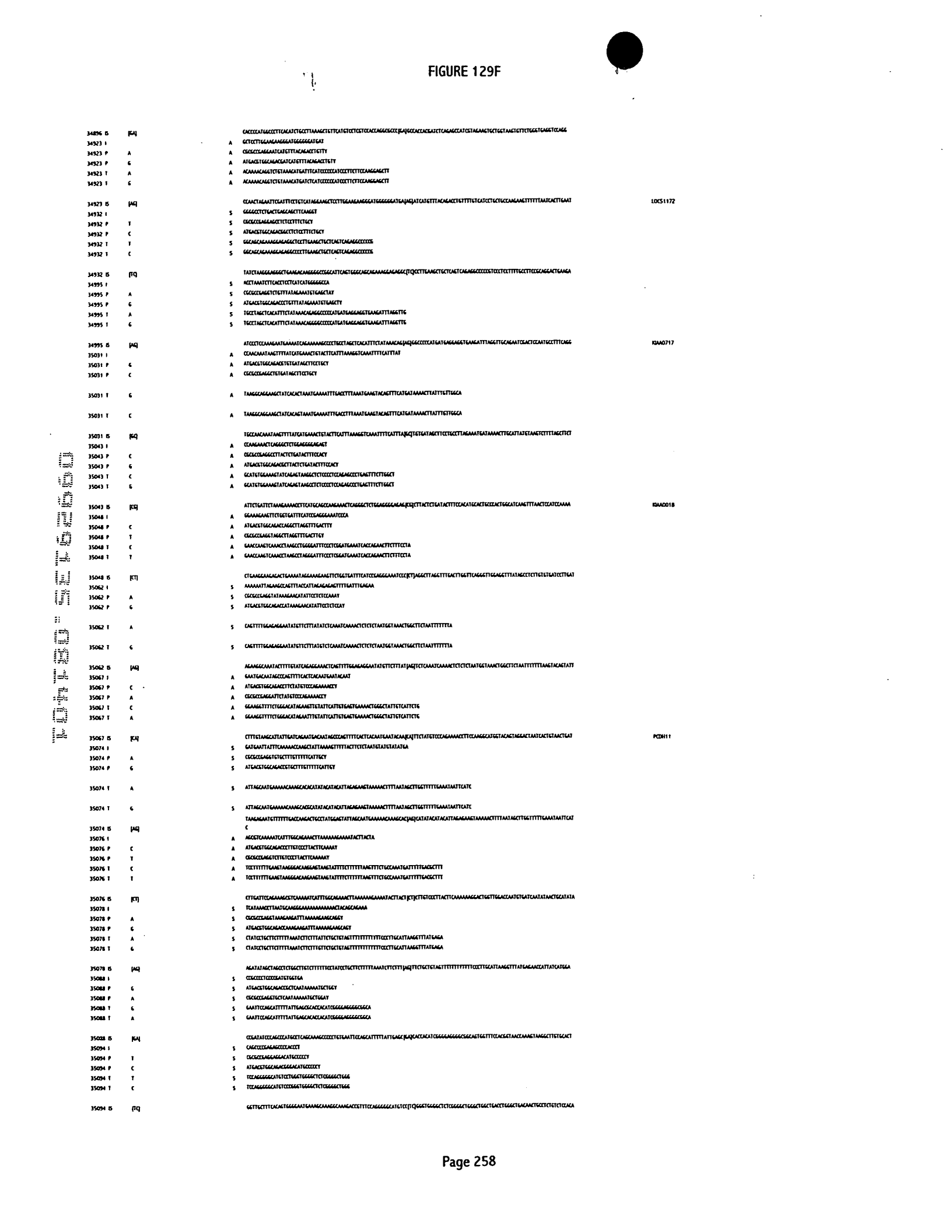
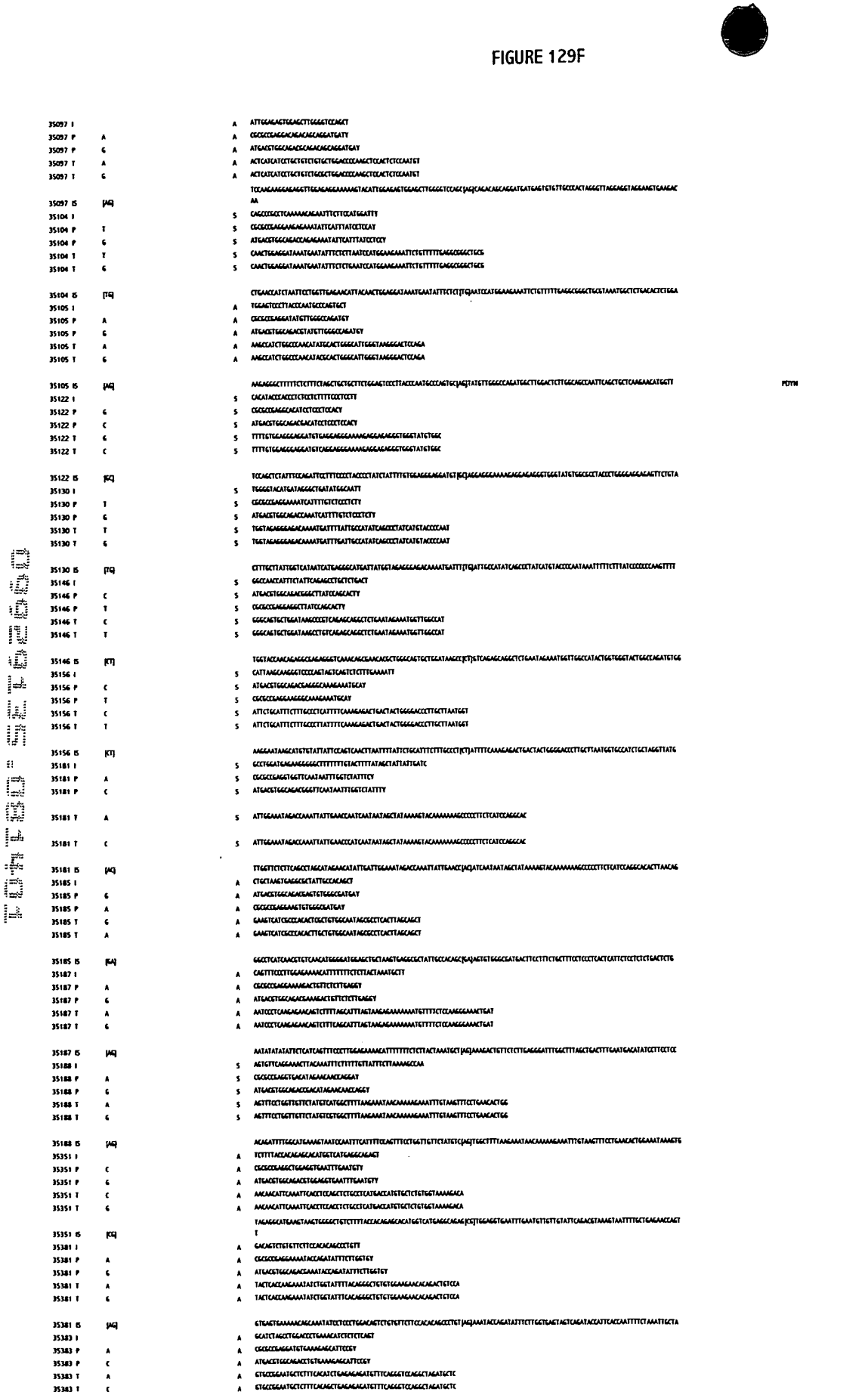
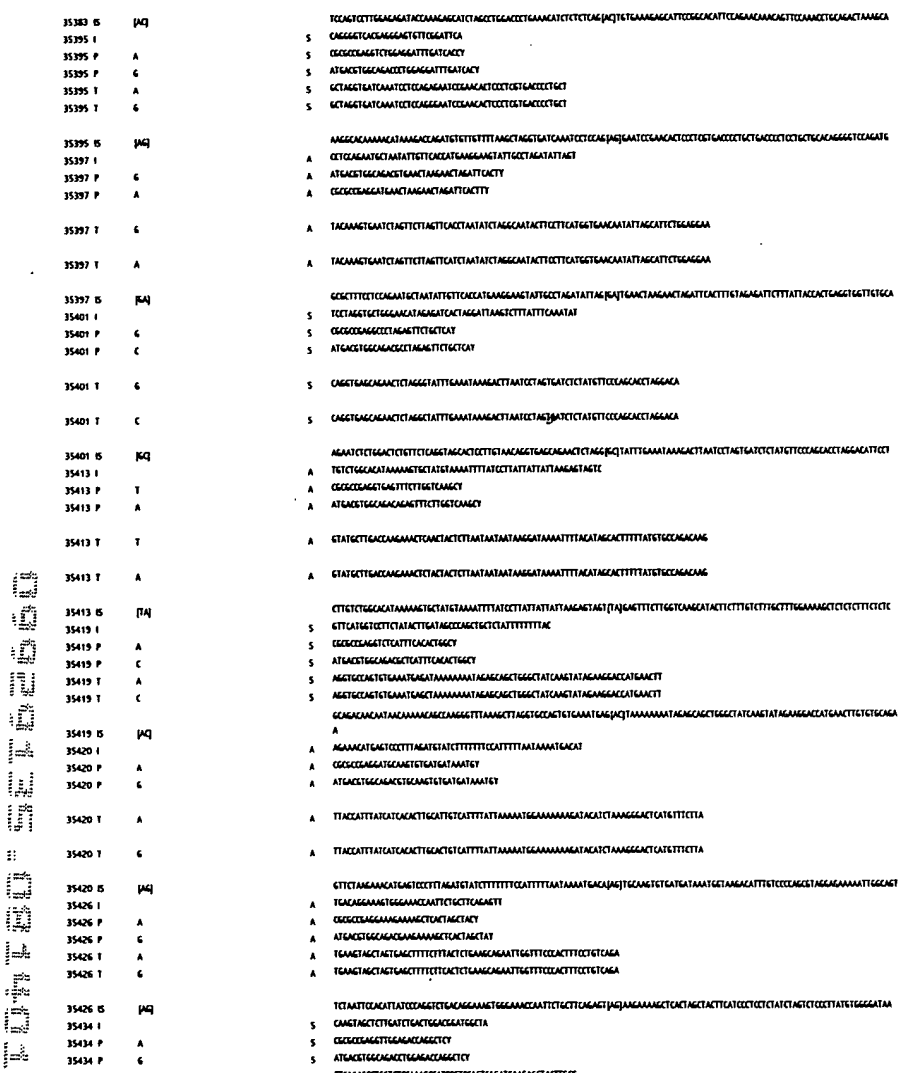


FIGURE 129F





Replacement Sheet

FIGURE 129F

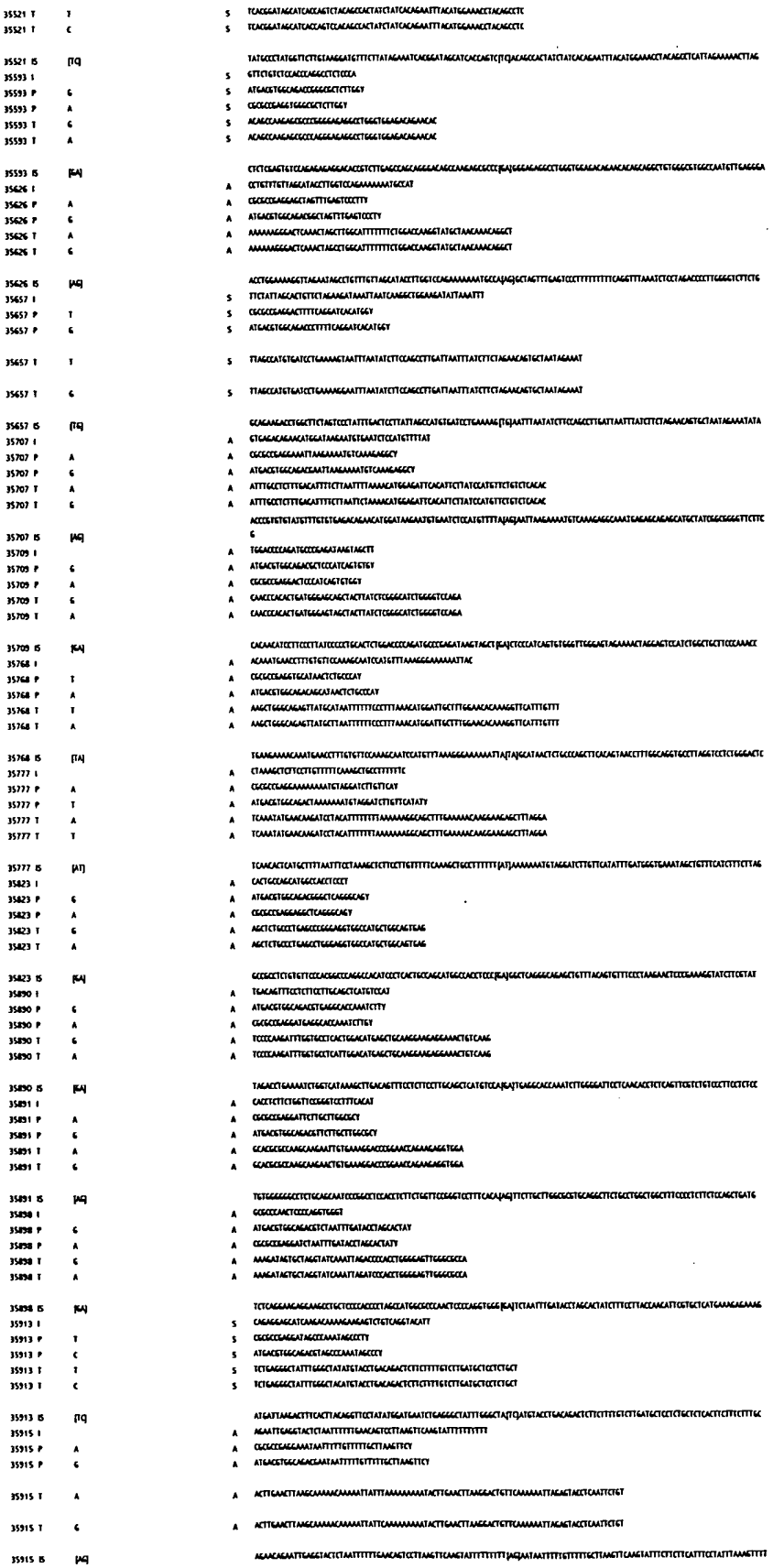


FIGURE 129F

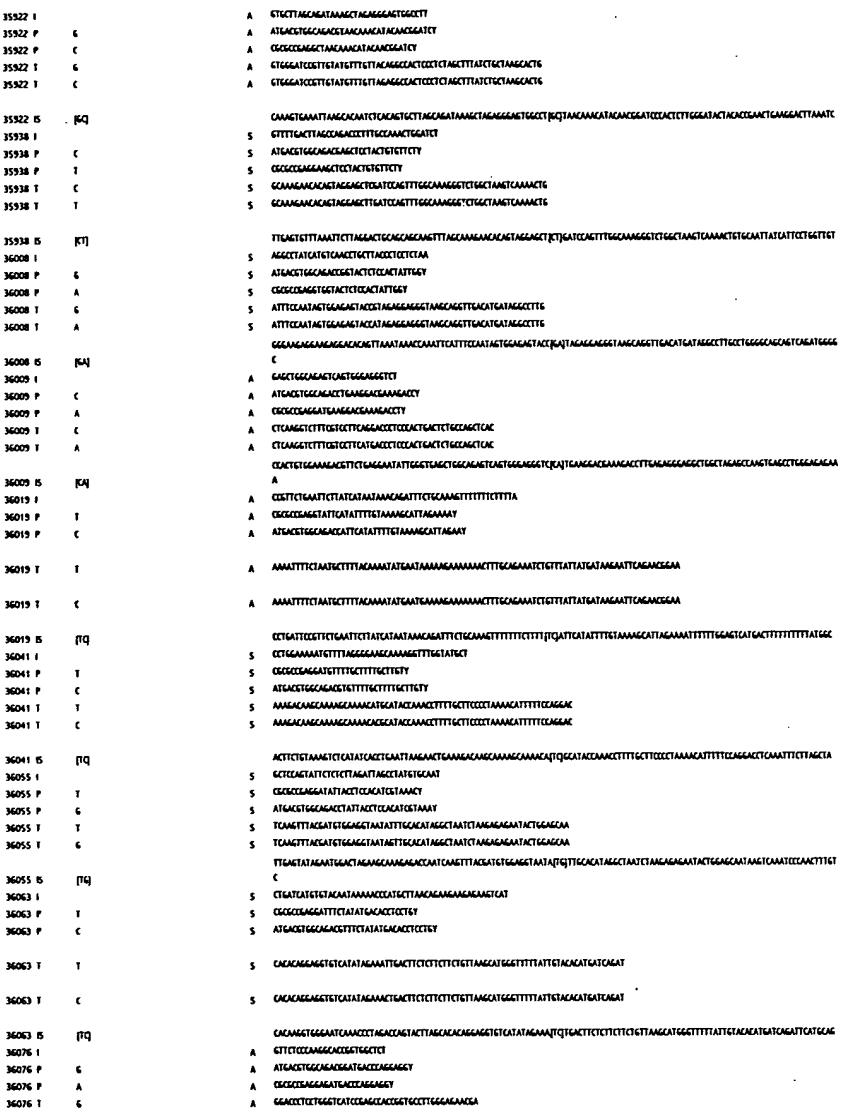


FIGURE 129F

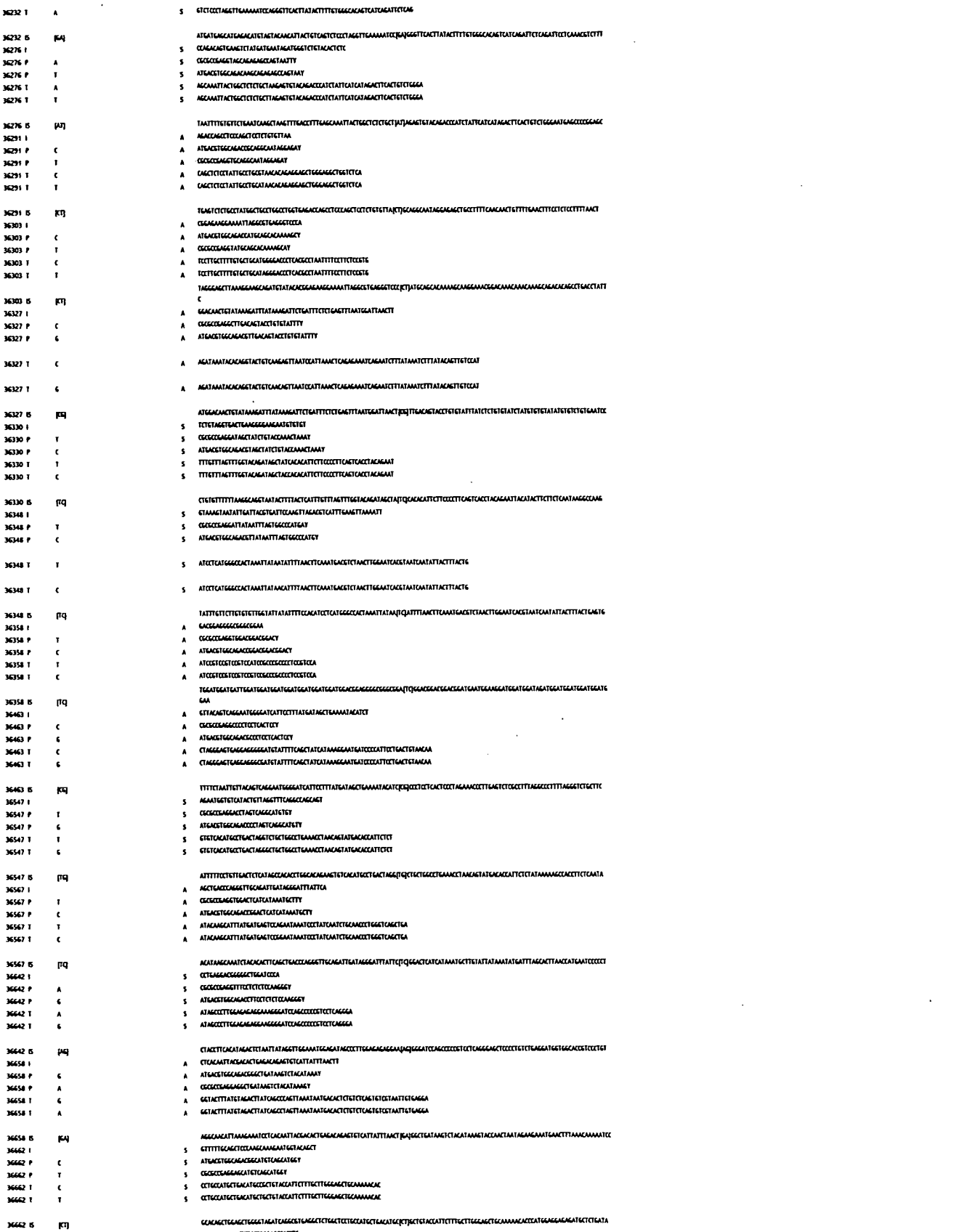
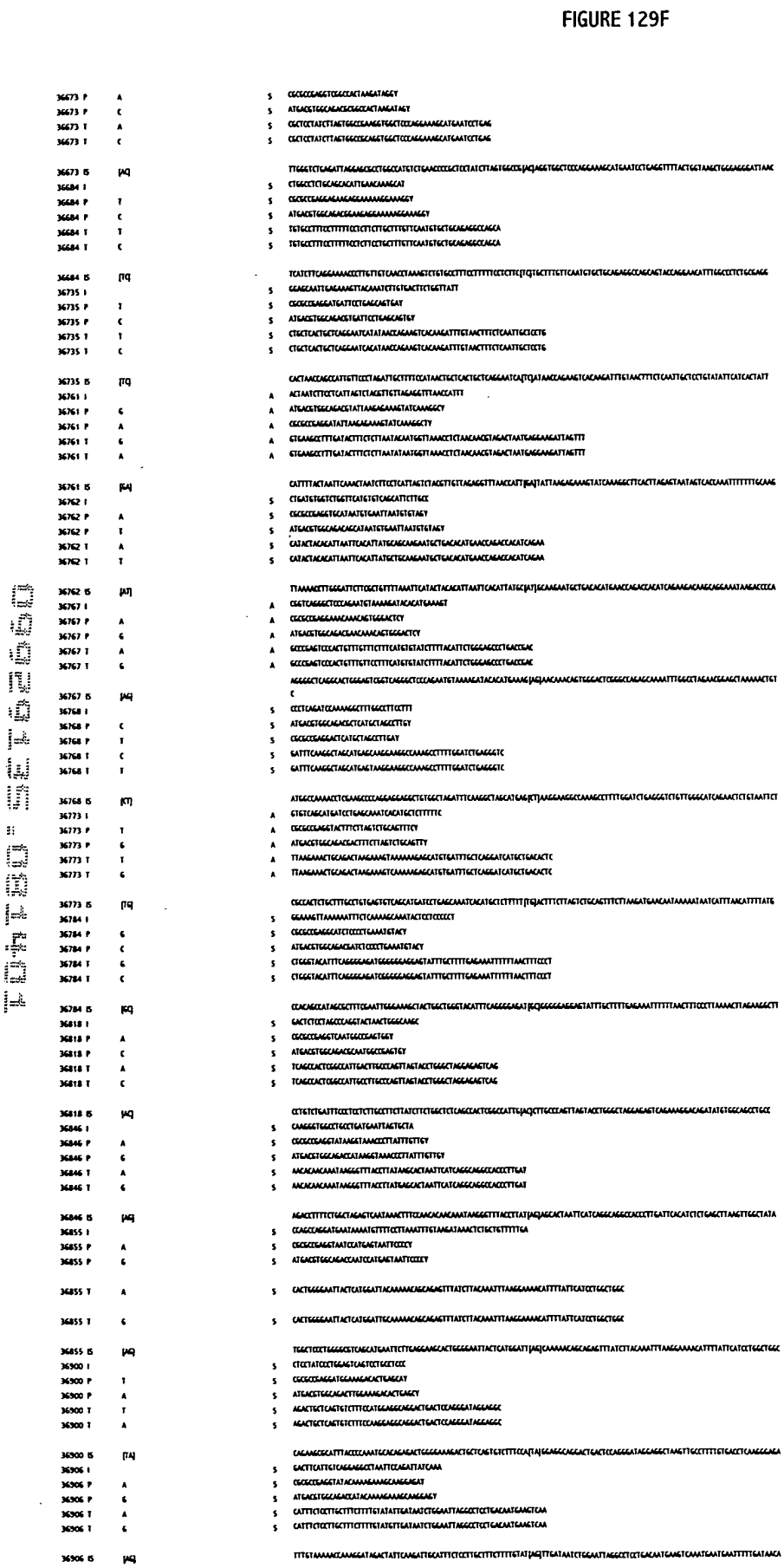


FIGURE 129F





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FIGURE 129F

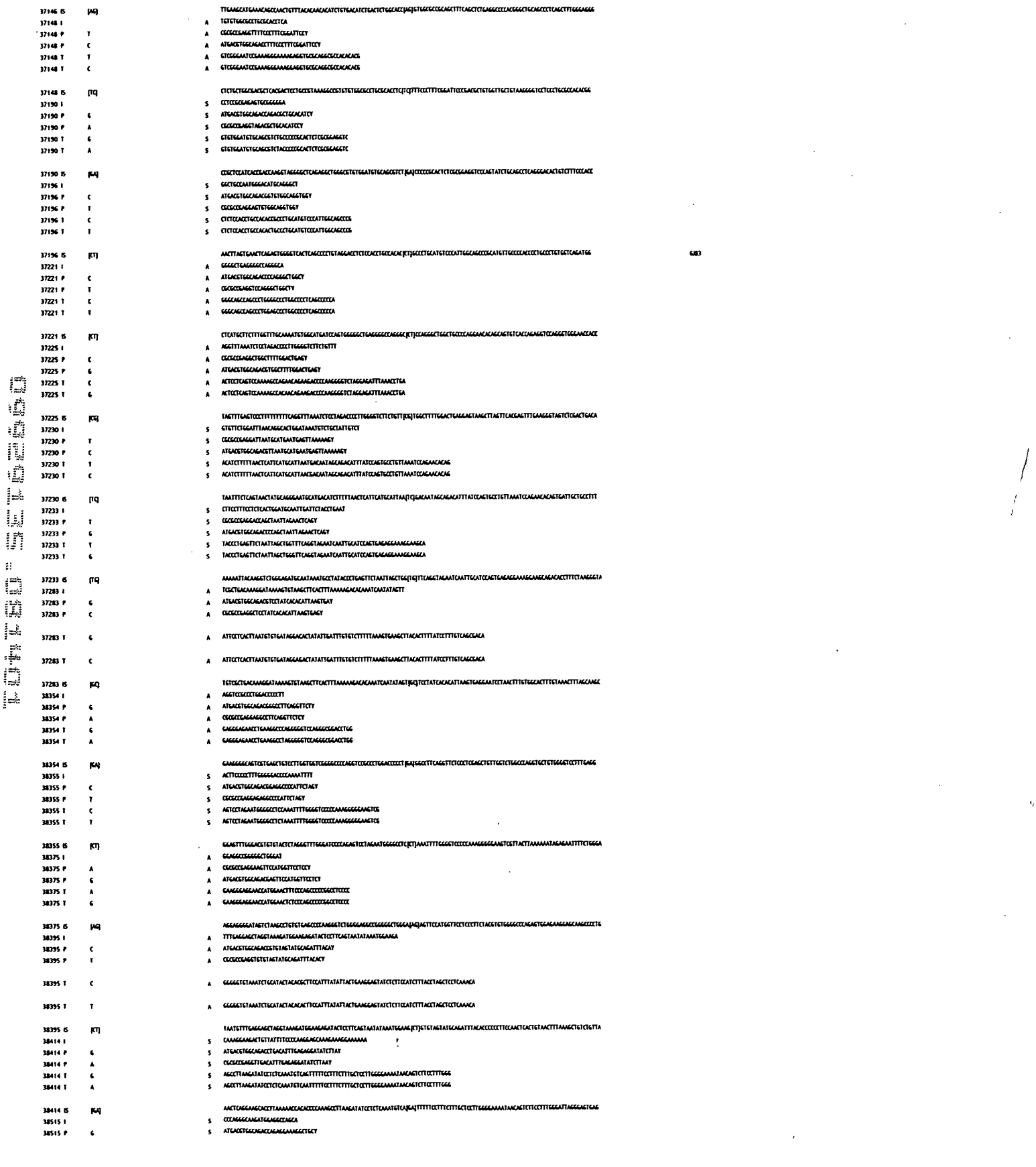


FIGURE 129F

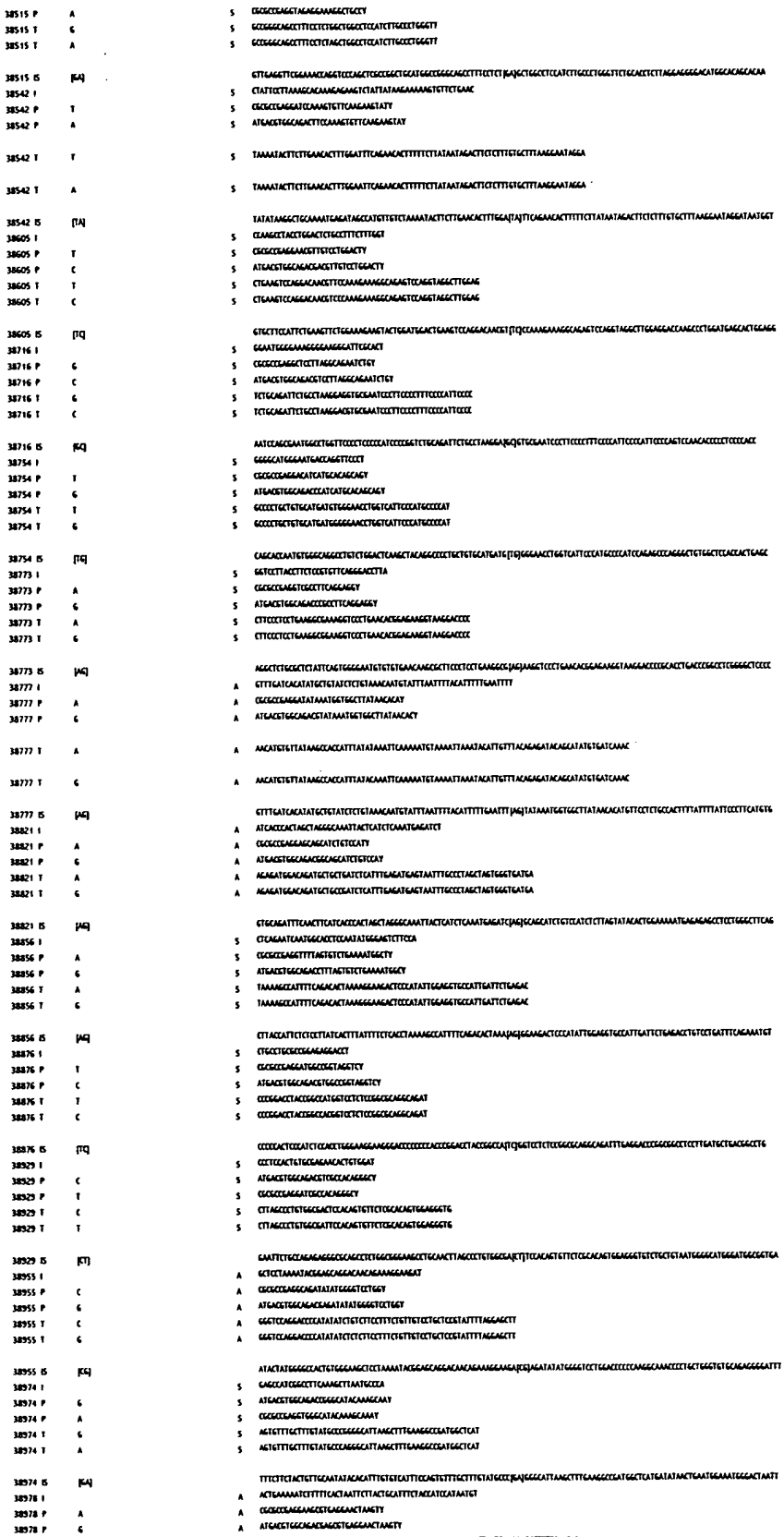


FIGURE 129F

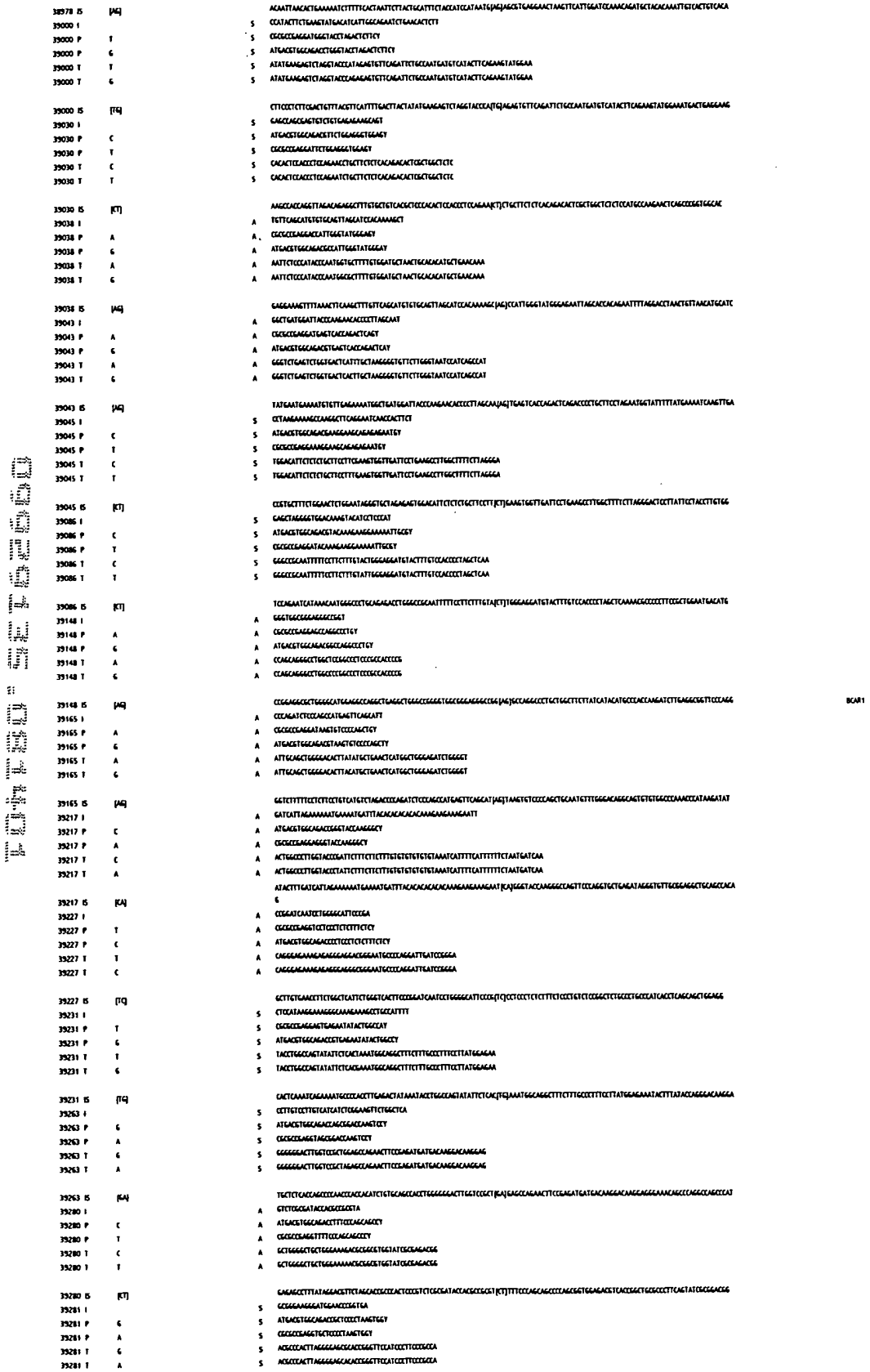


FIGURE 129F

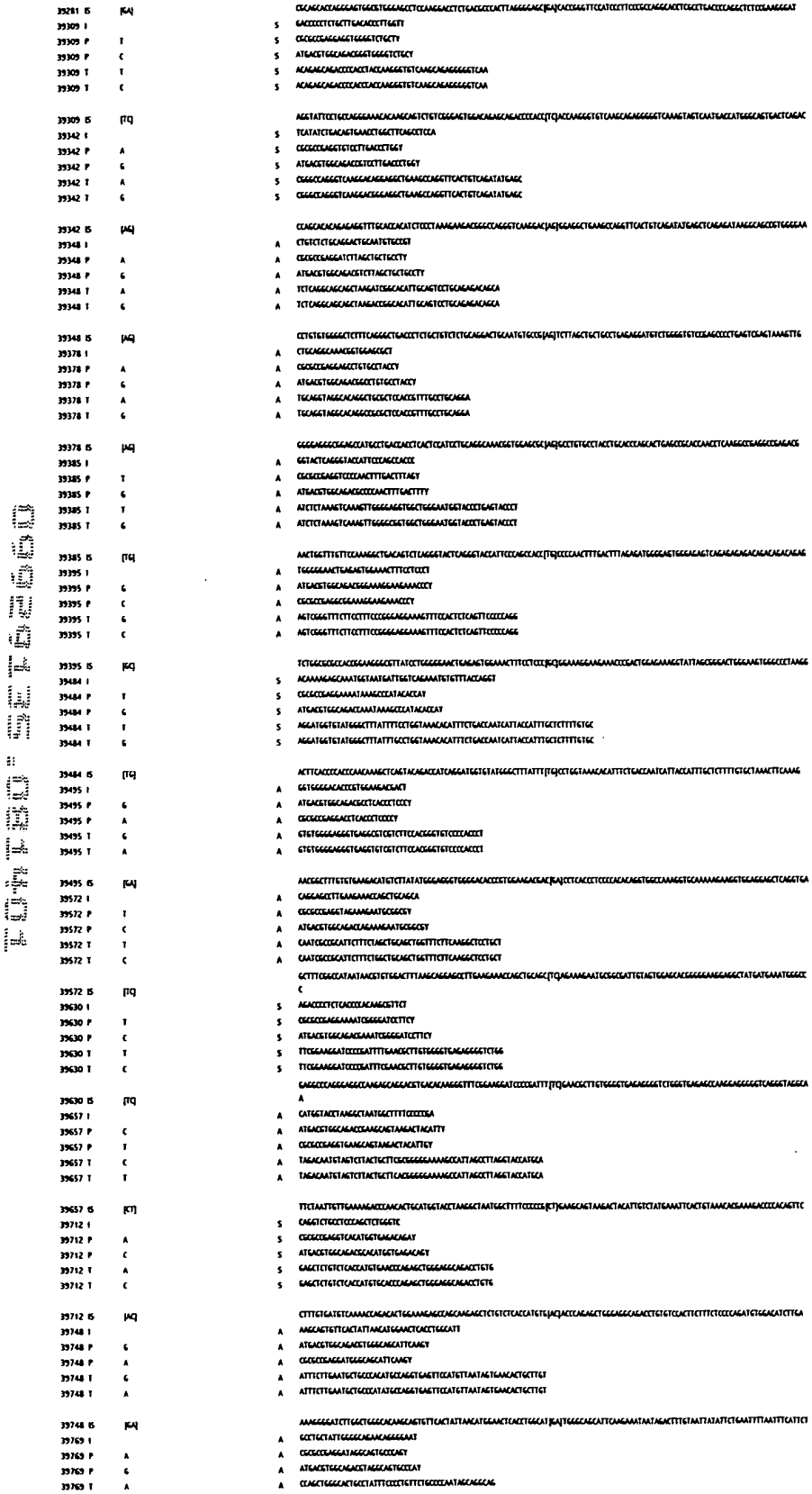
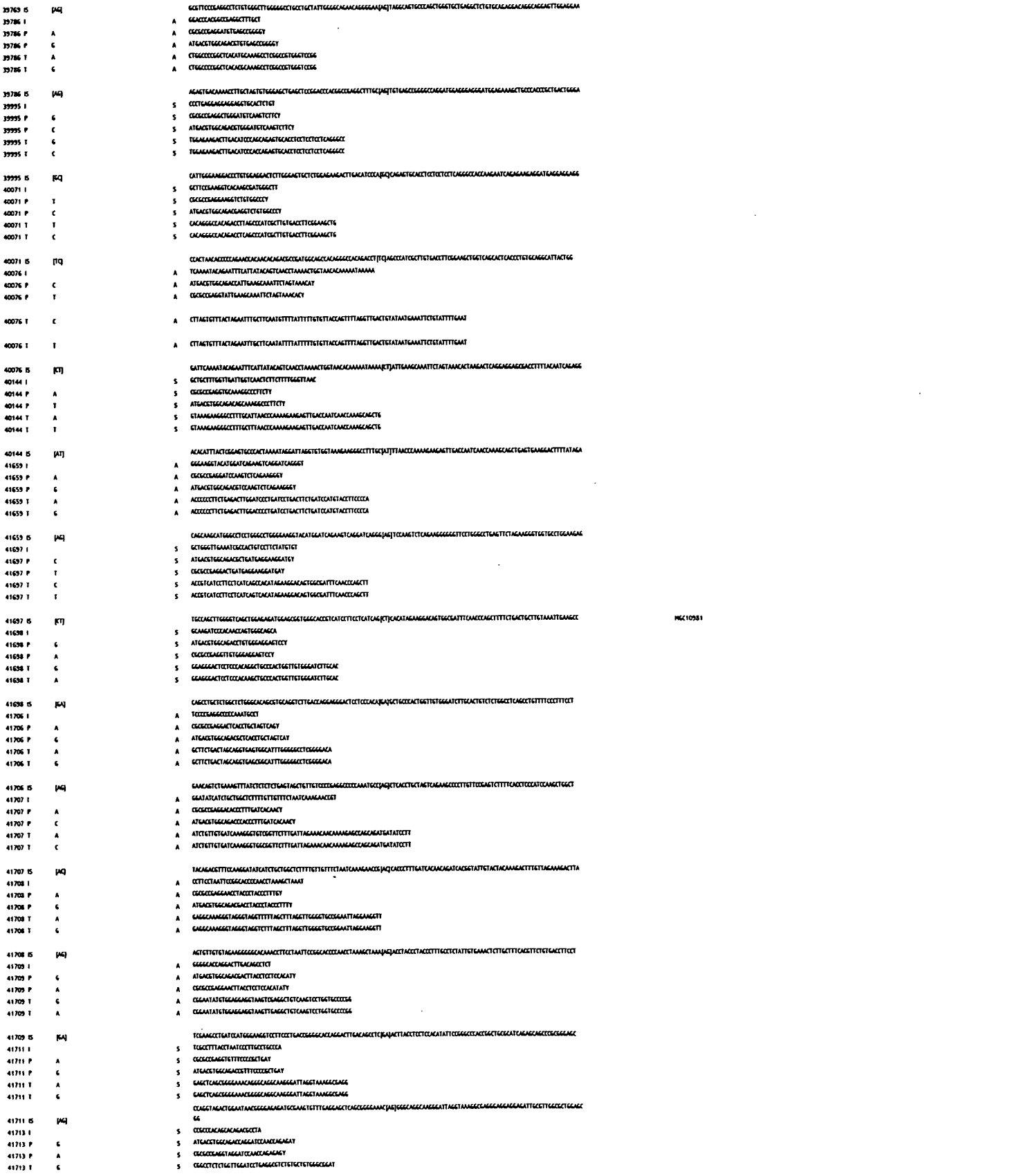
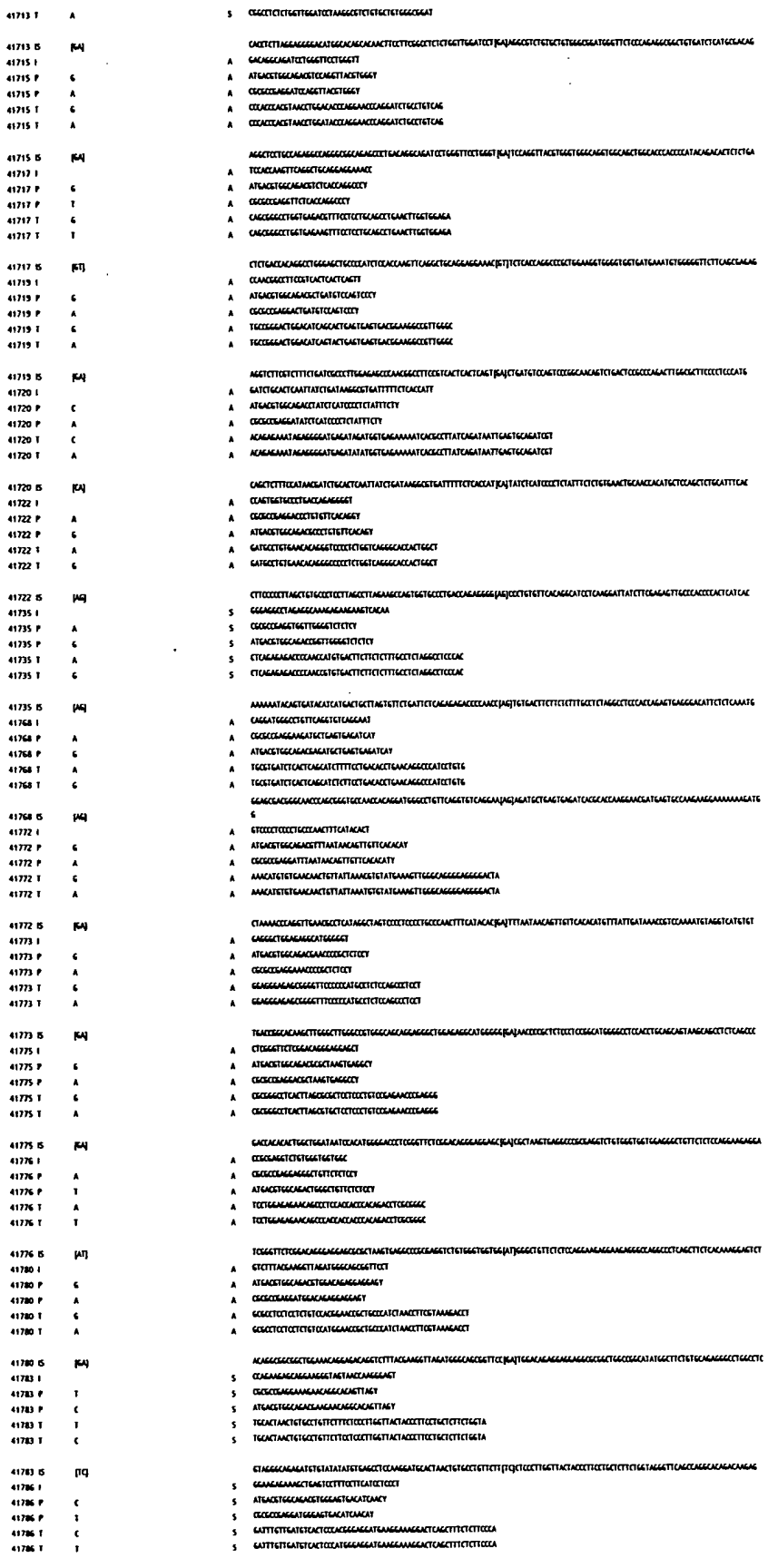
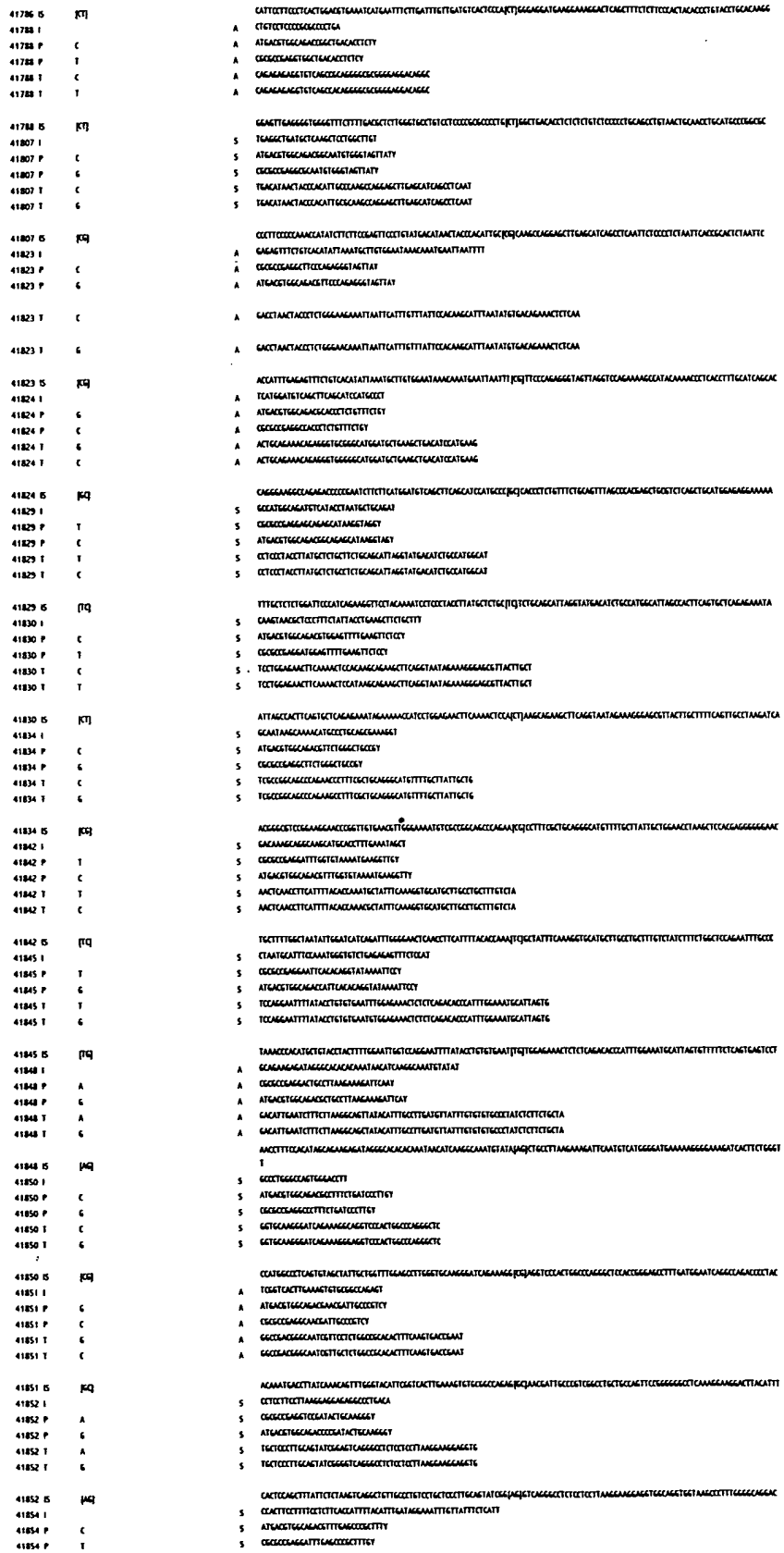
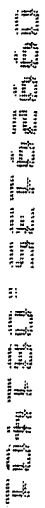


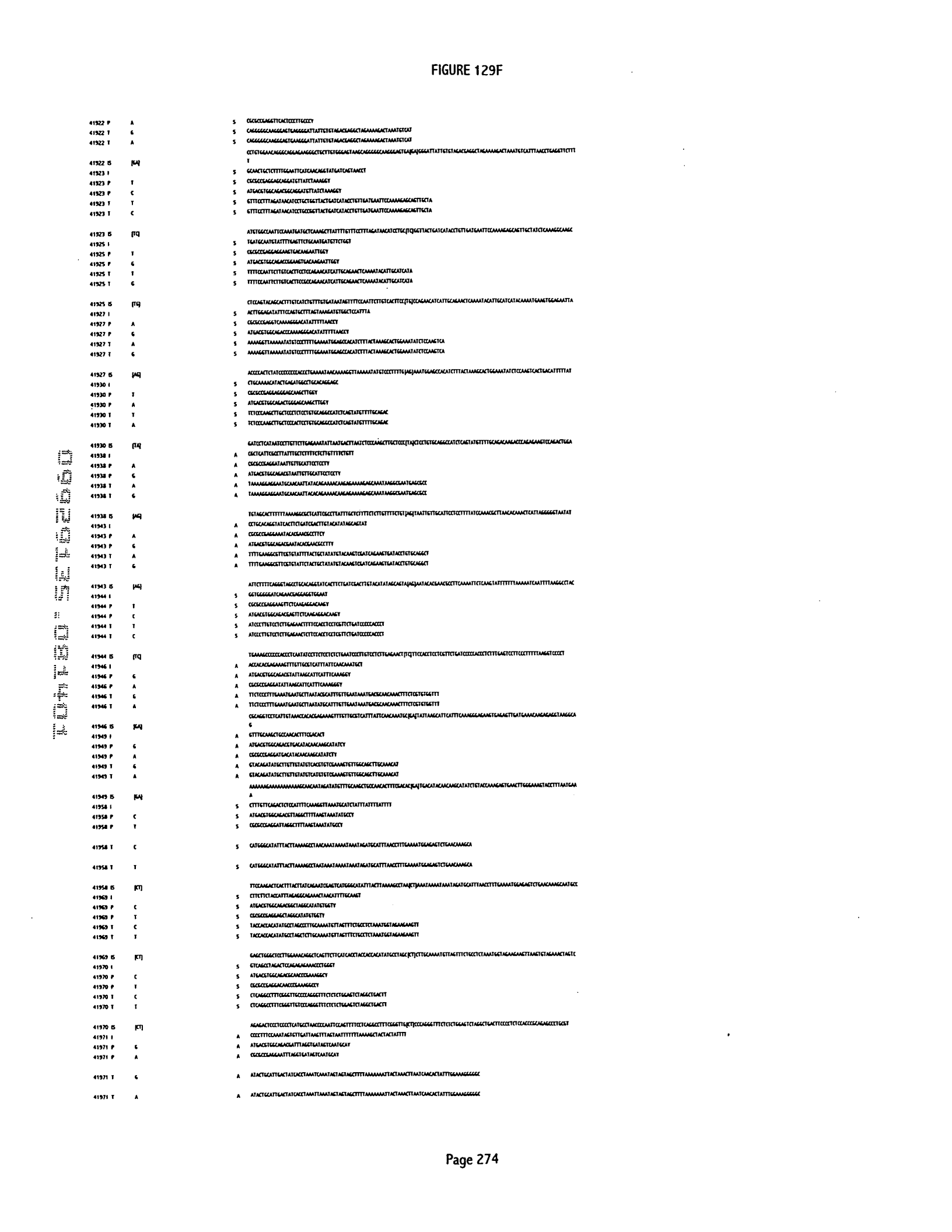
FIGURE 129F











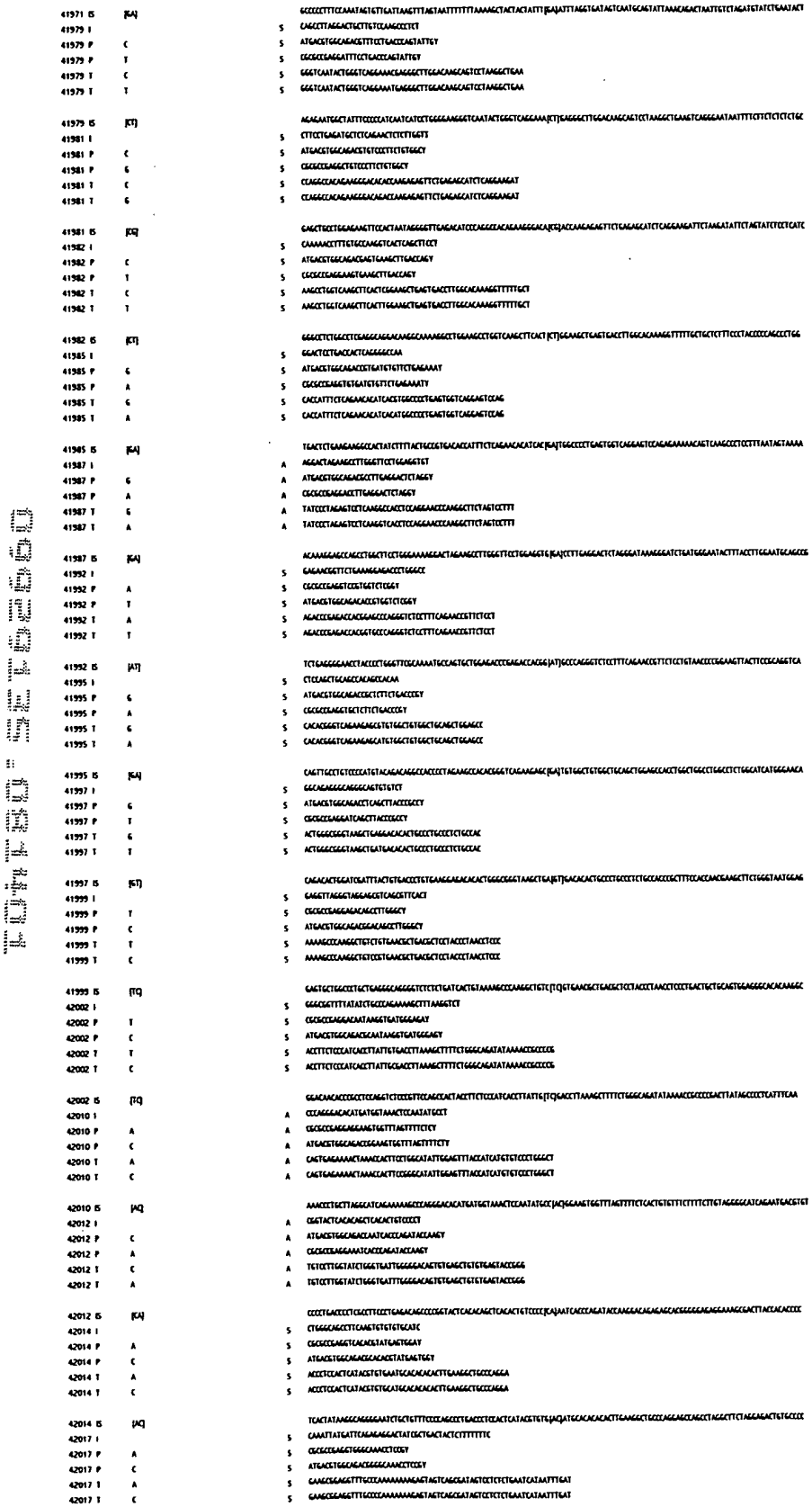
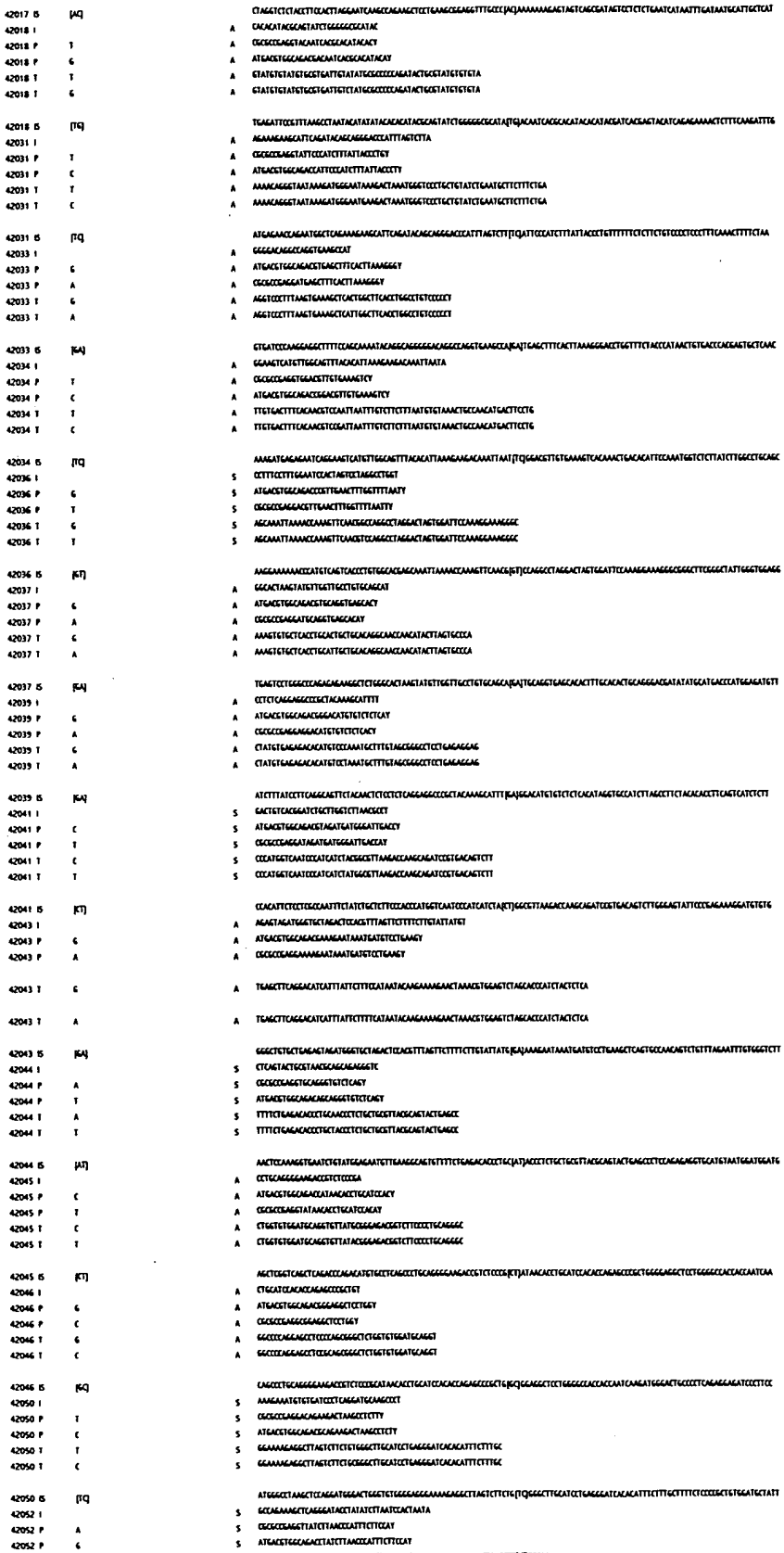


FIGURE 129F





Express Mail Label No. EL 991 449 650 US

FIGURE 129F

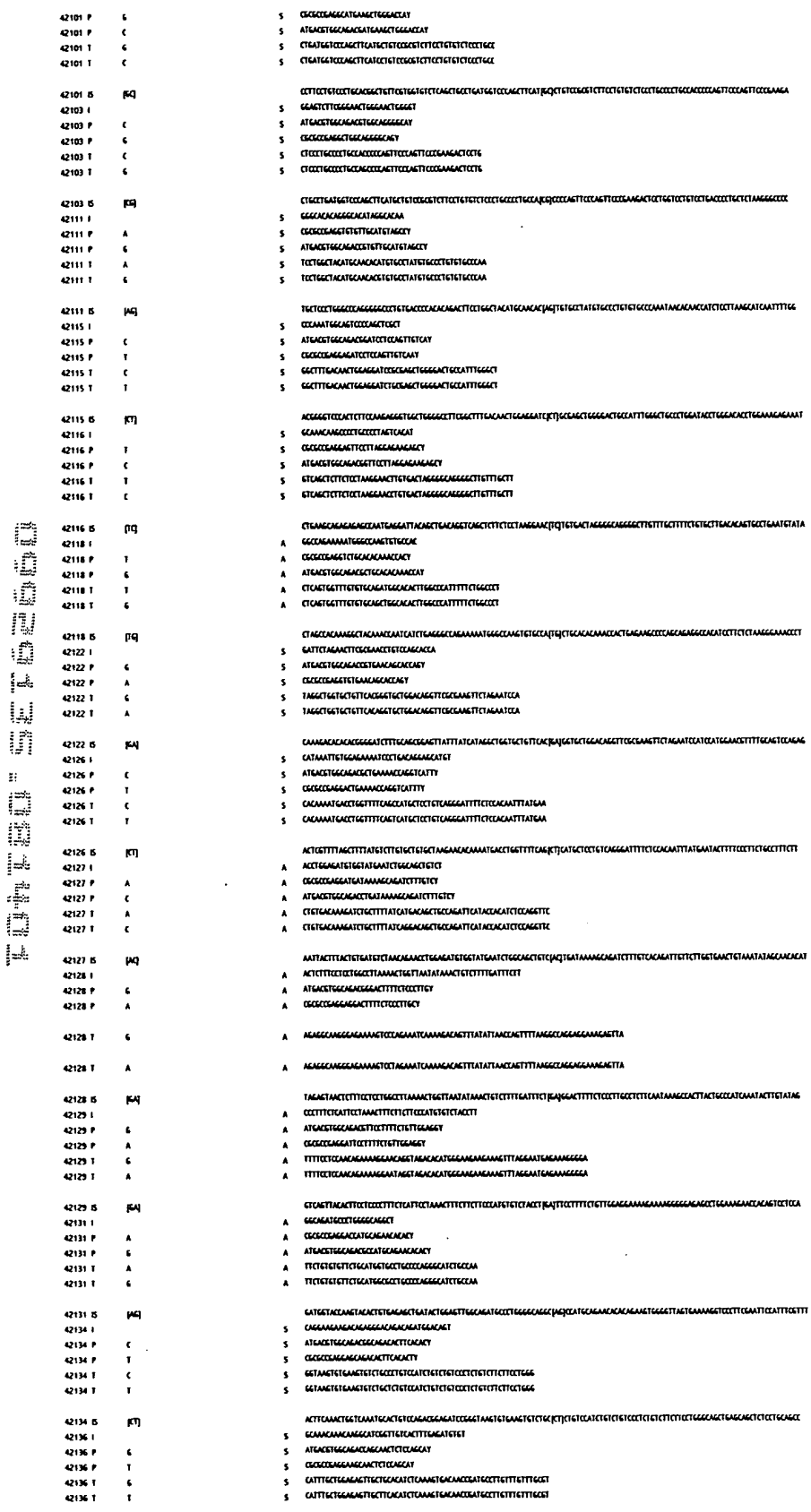
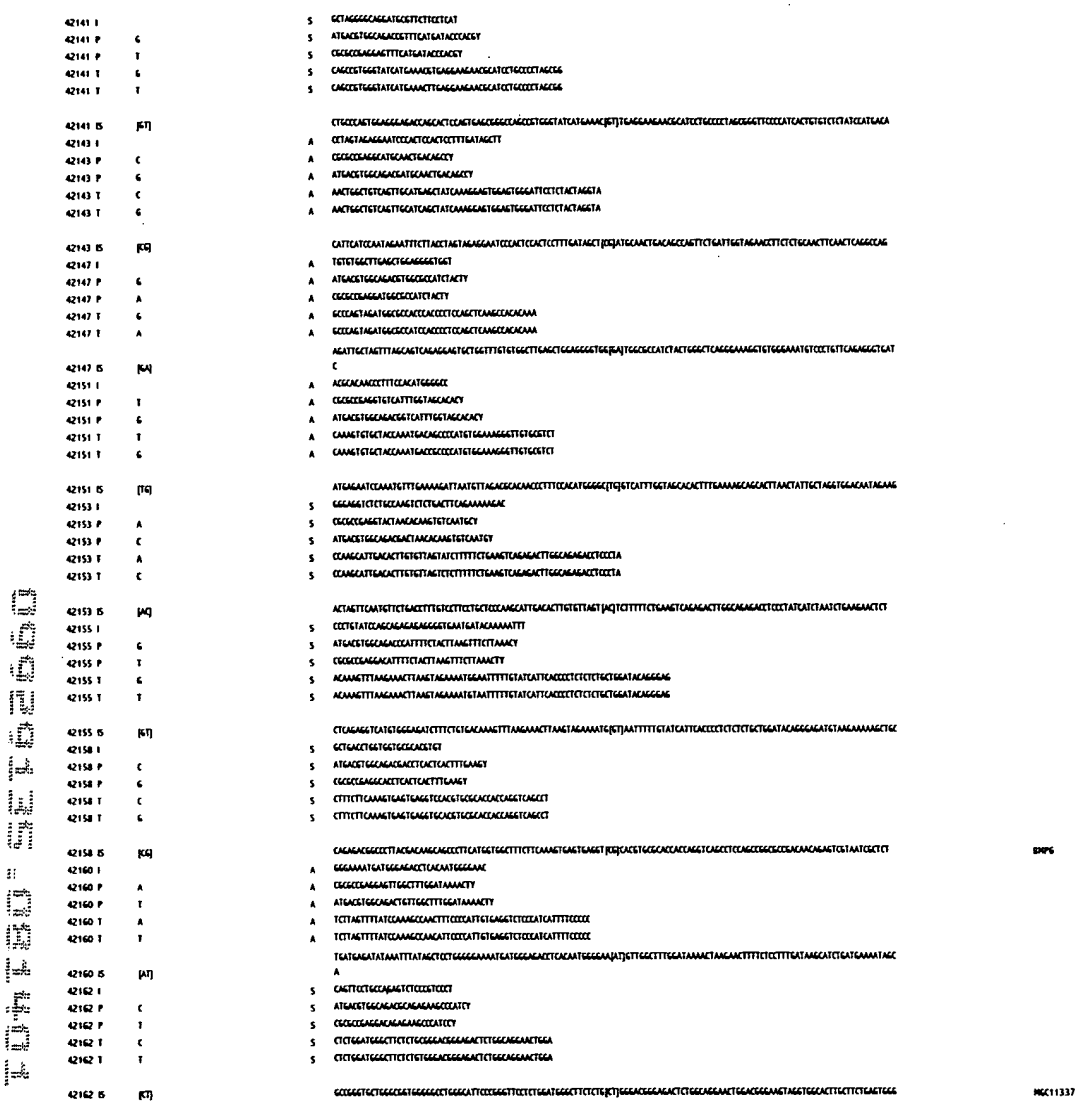


FIGURE 129F



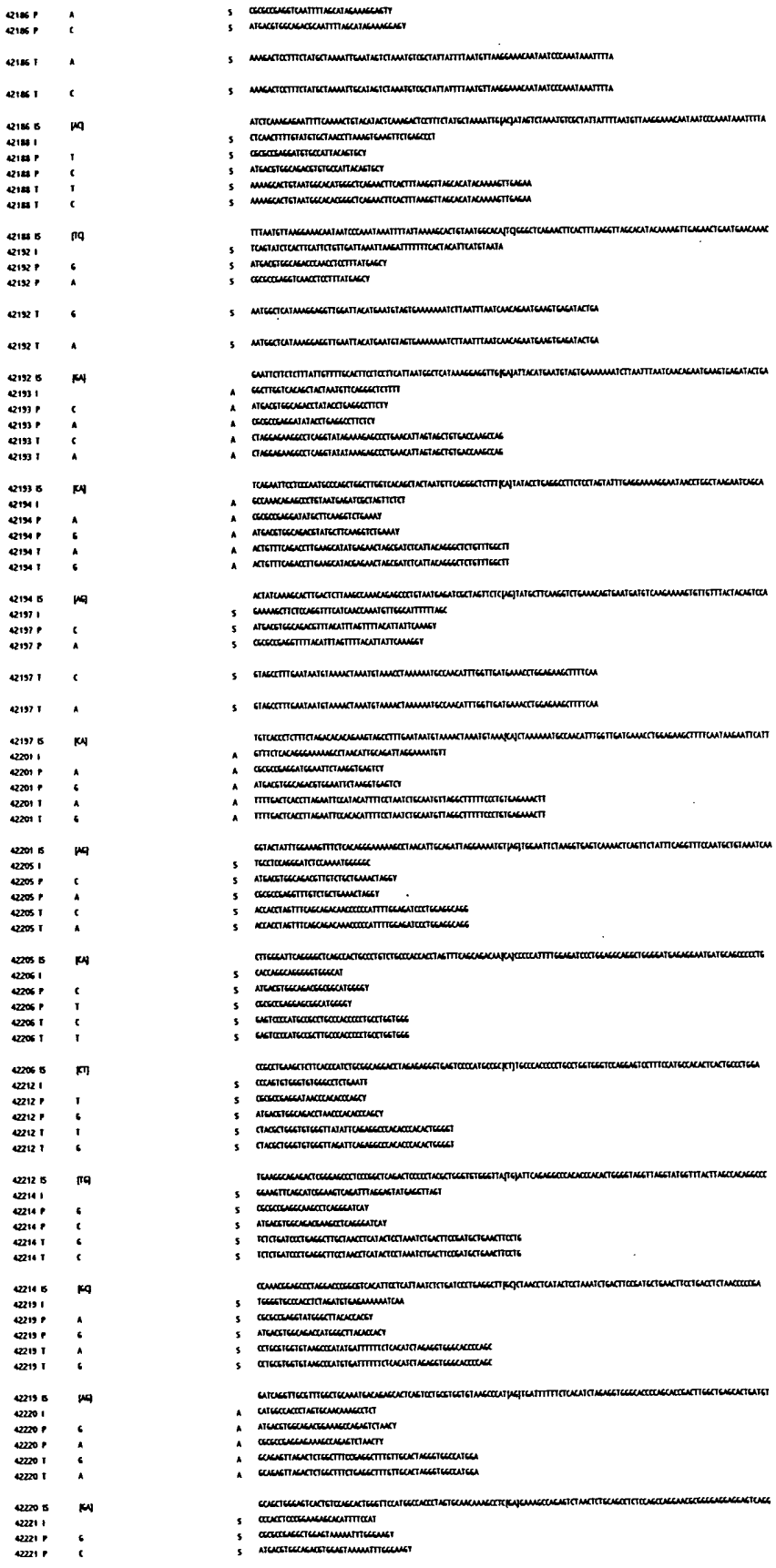
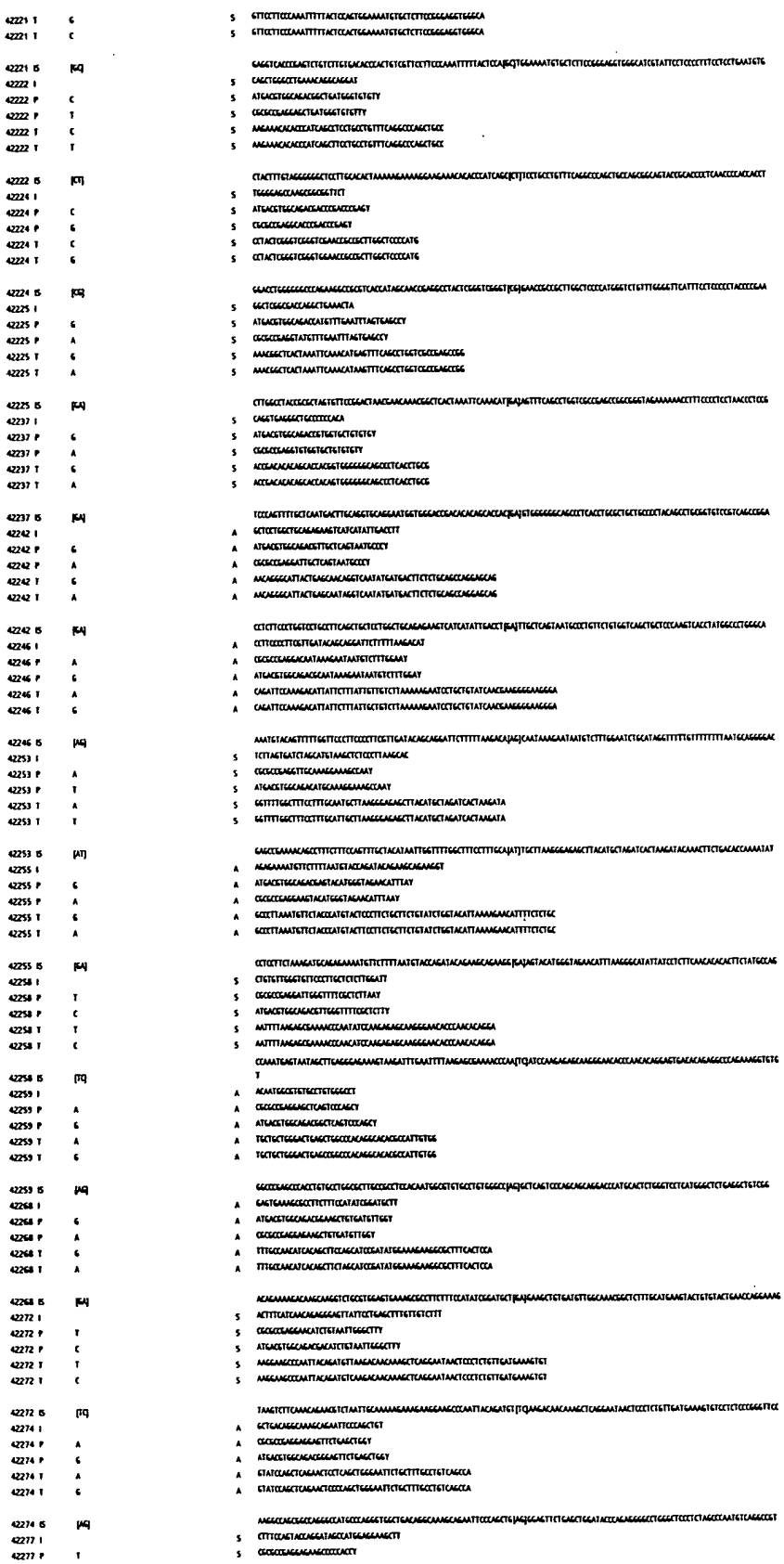
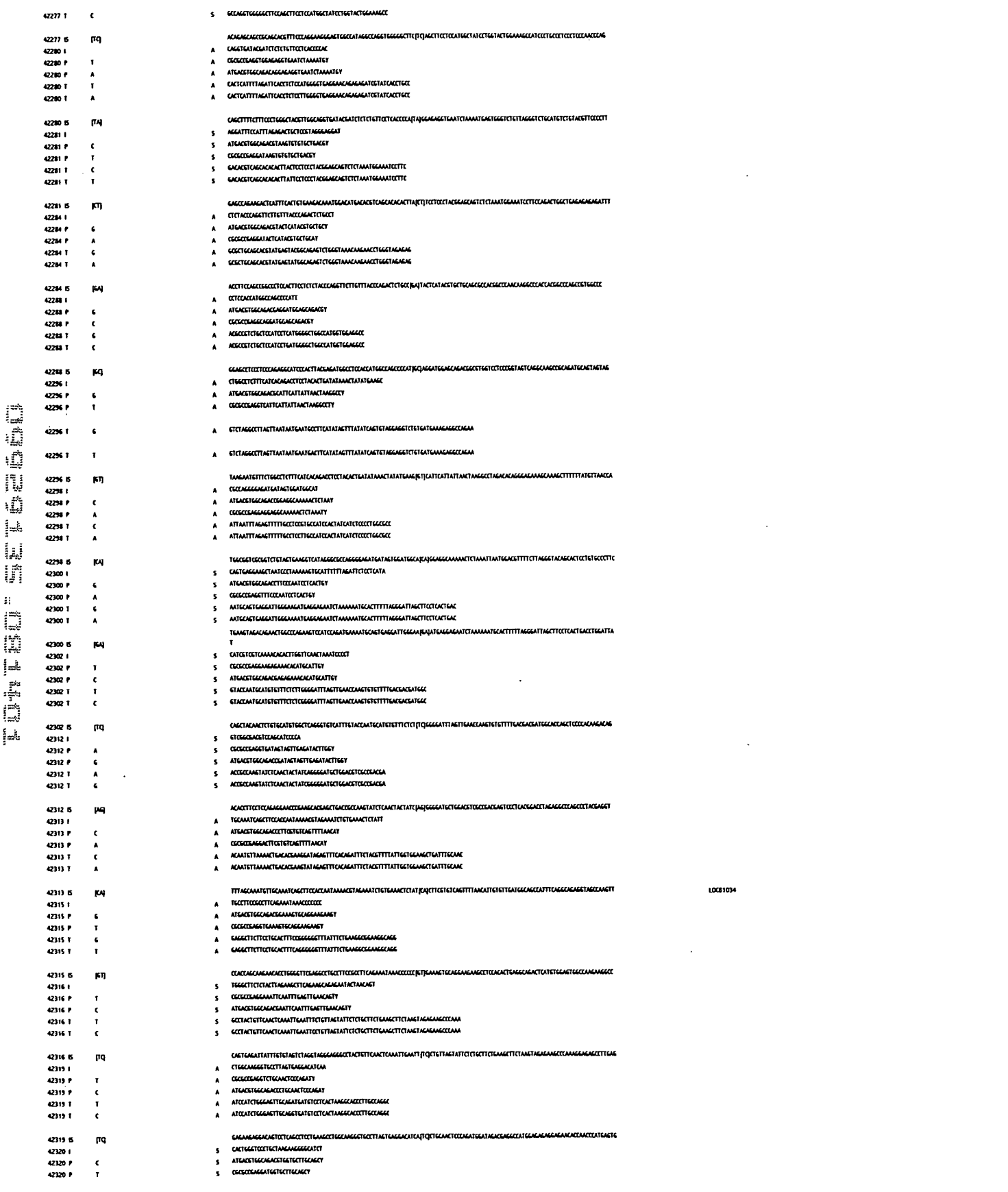


FIGURE 129F





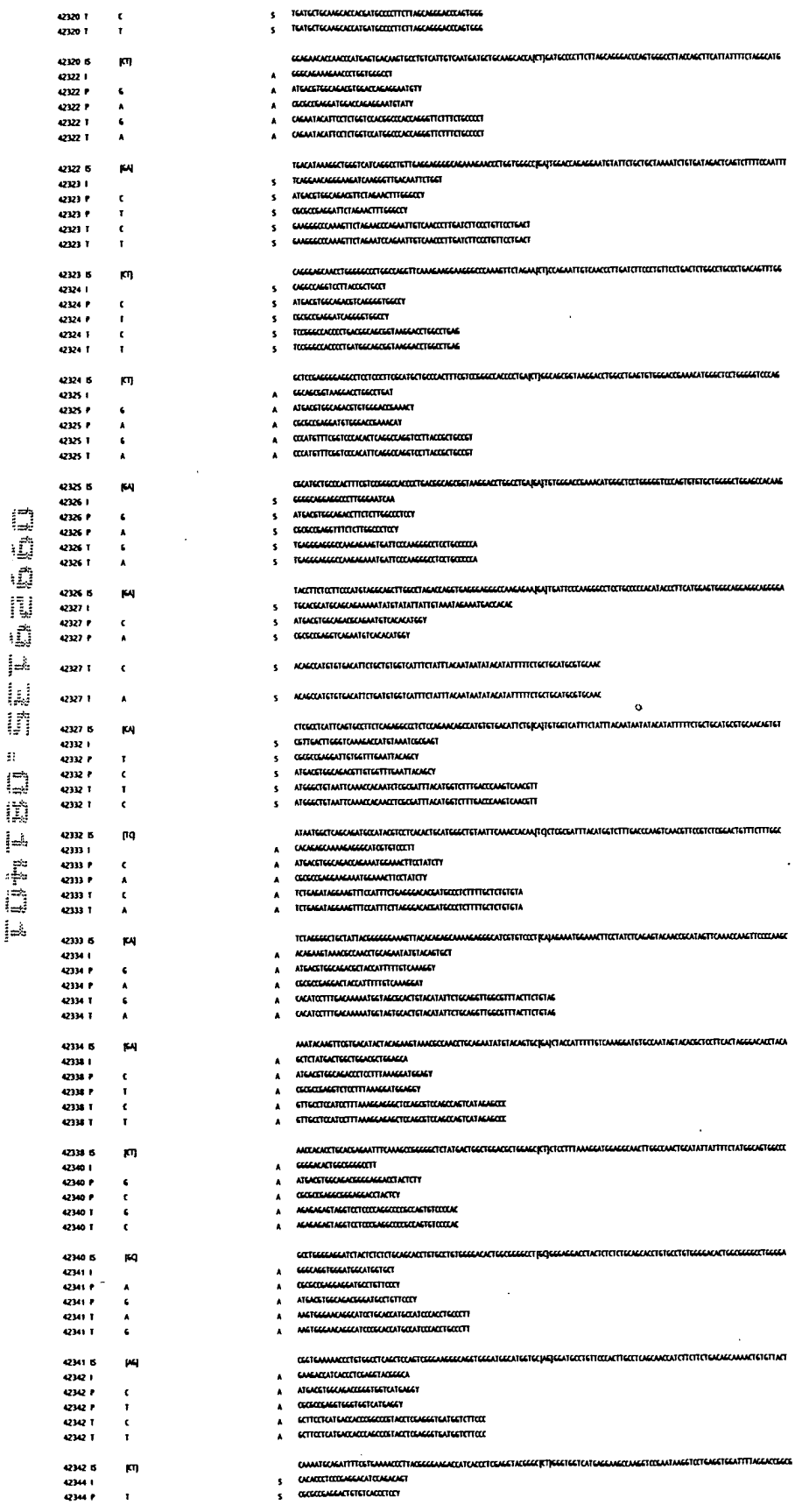


FIGURE 129F

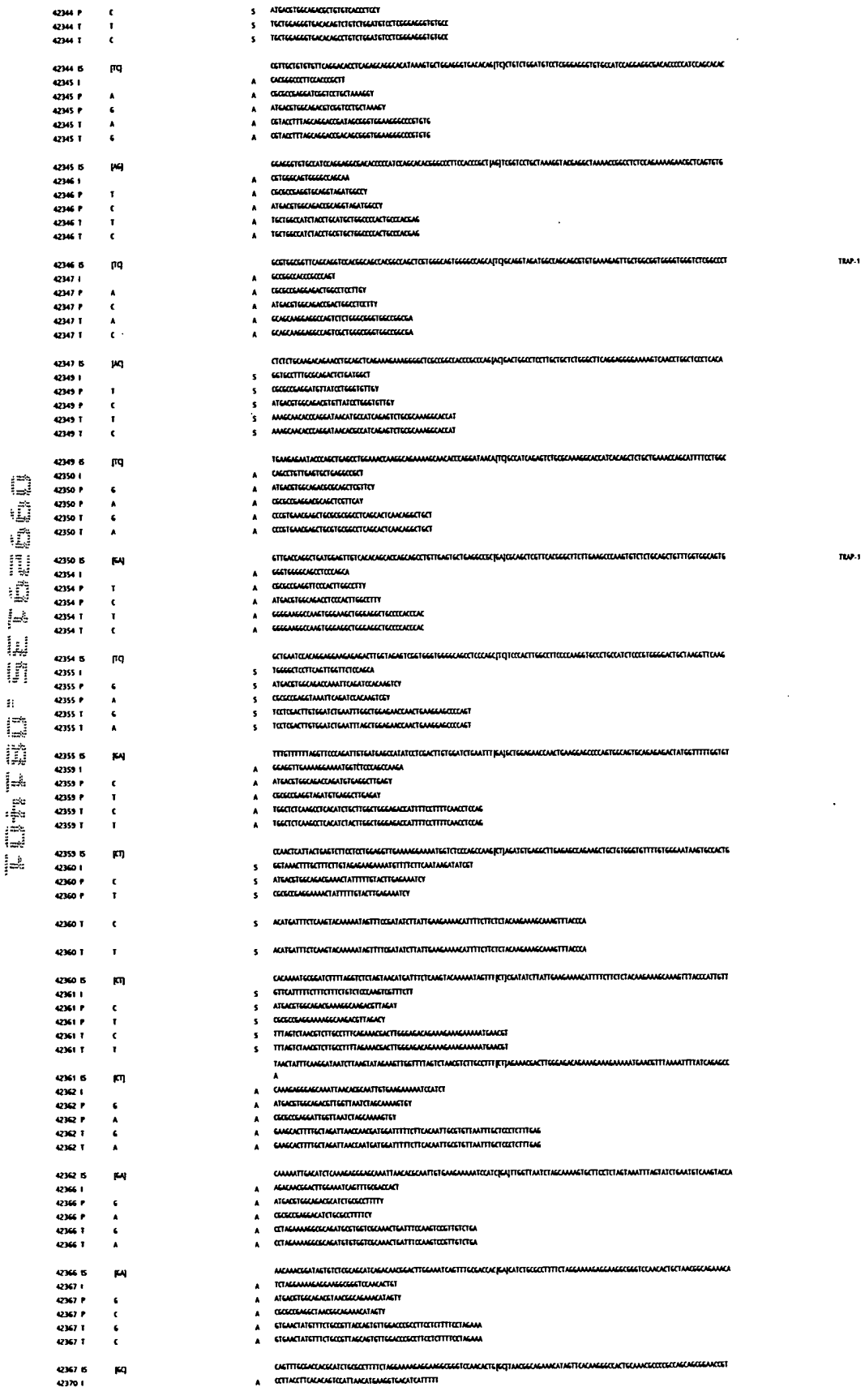


FIGURE 129F

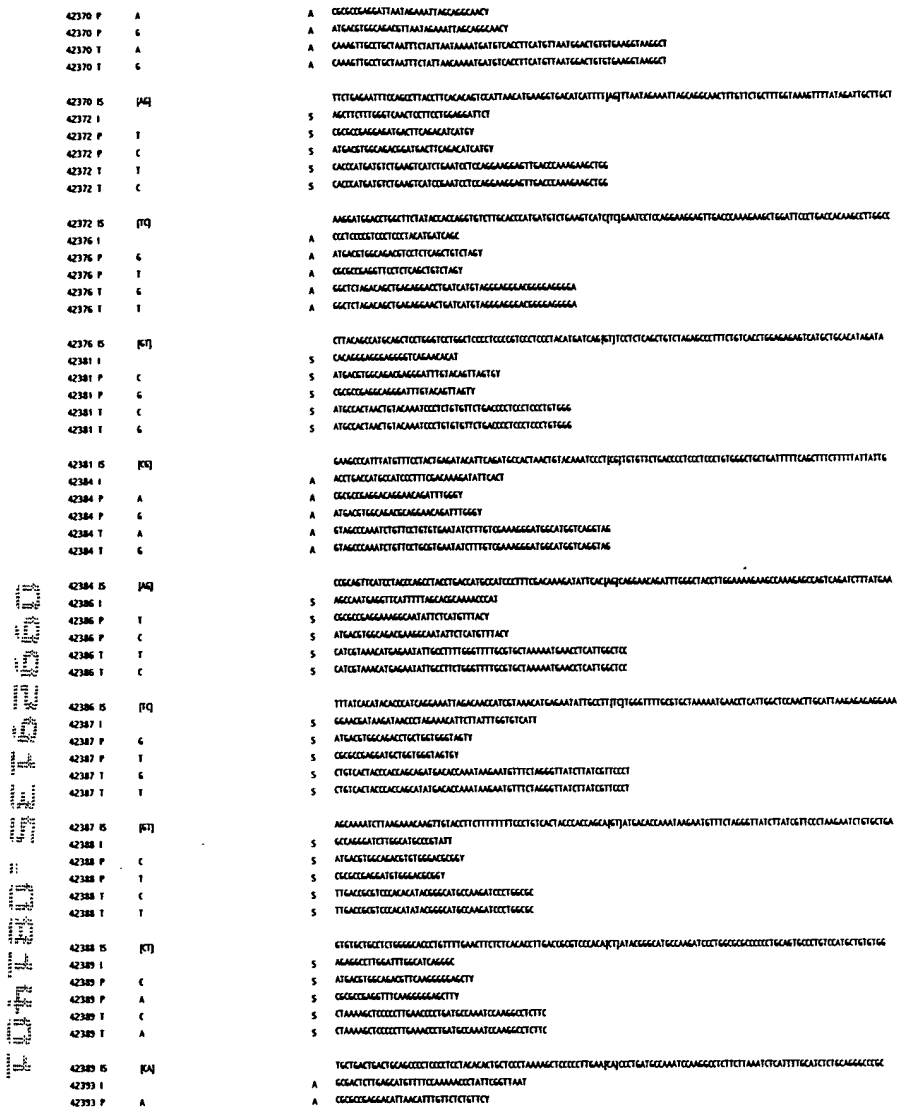
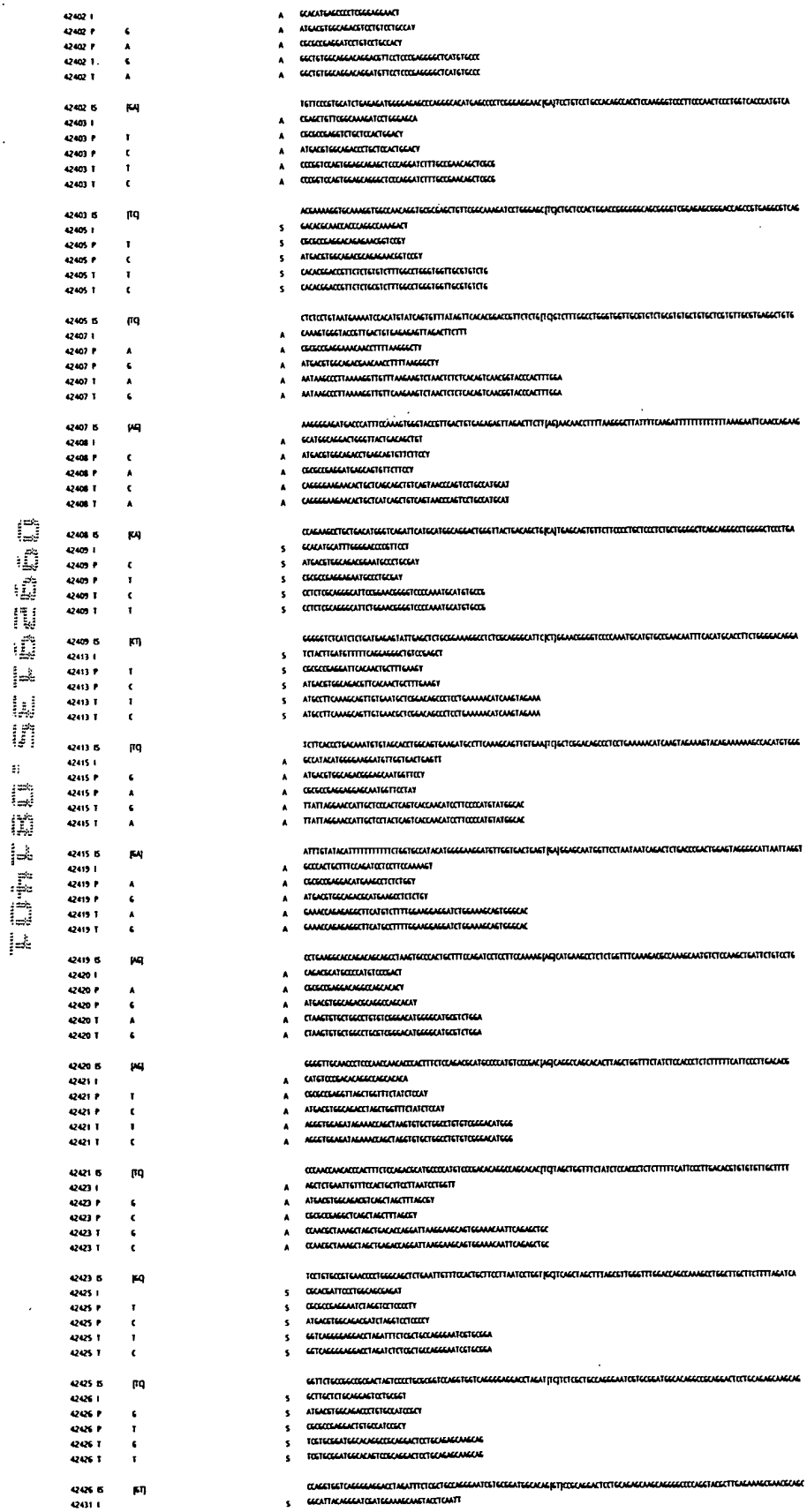


FIGURE 129F



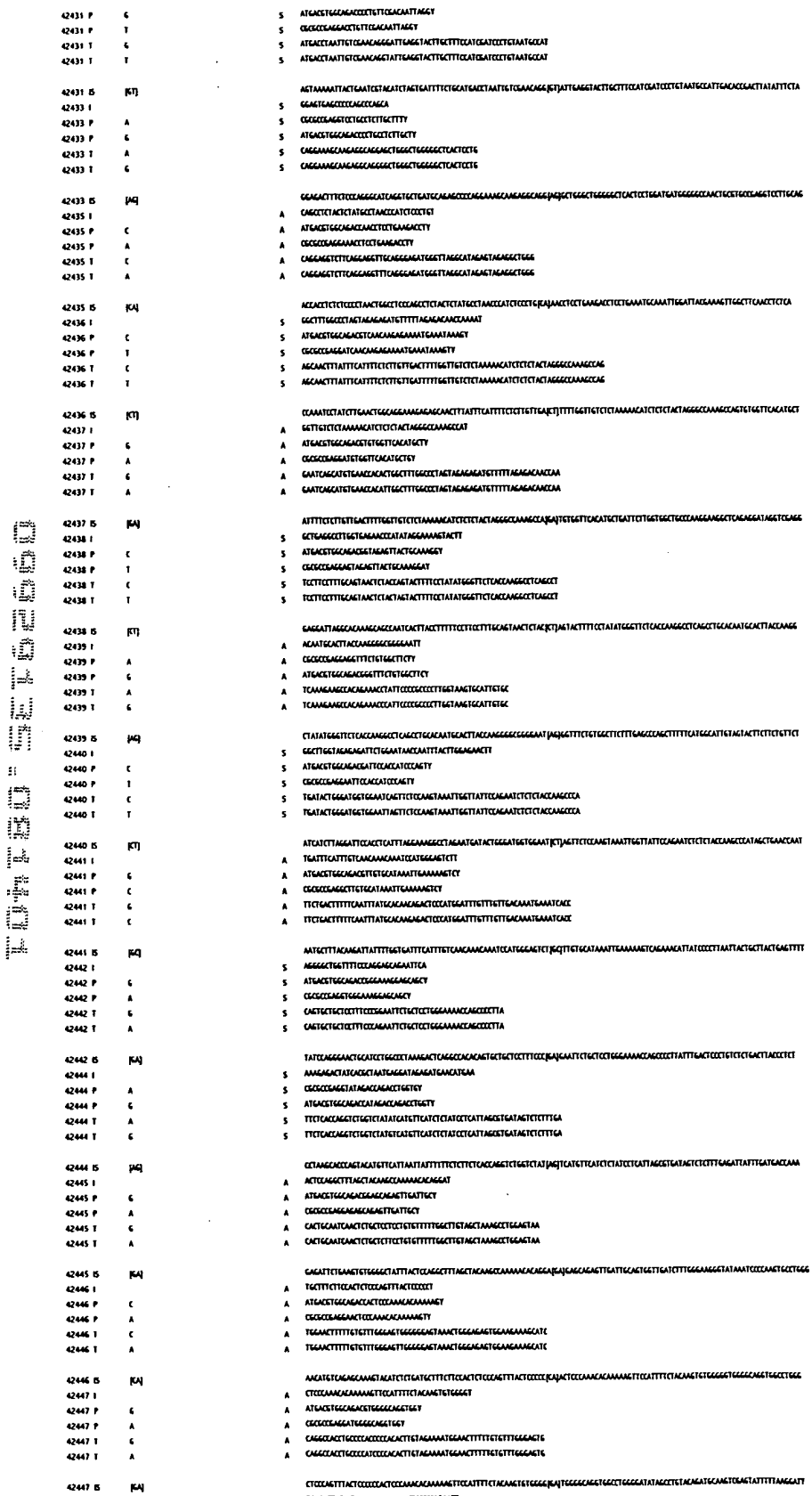


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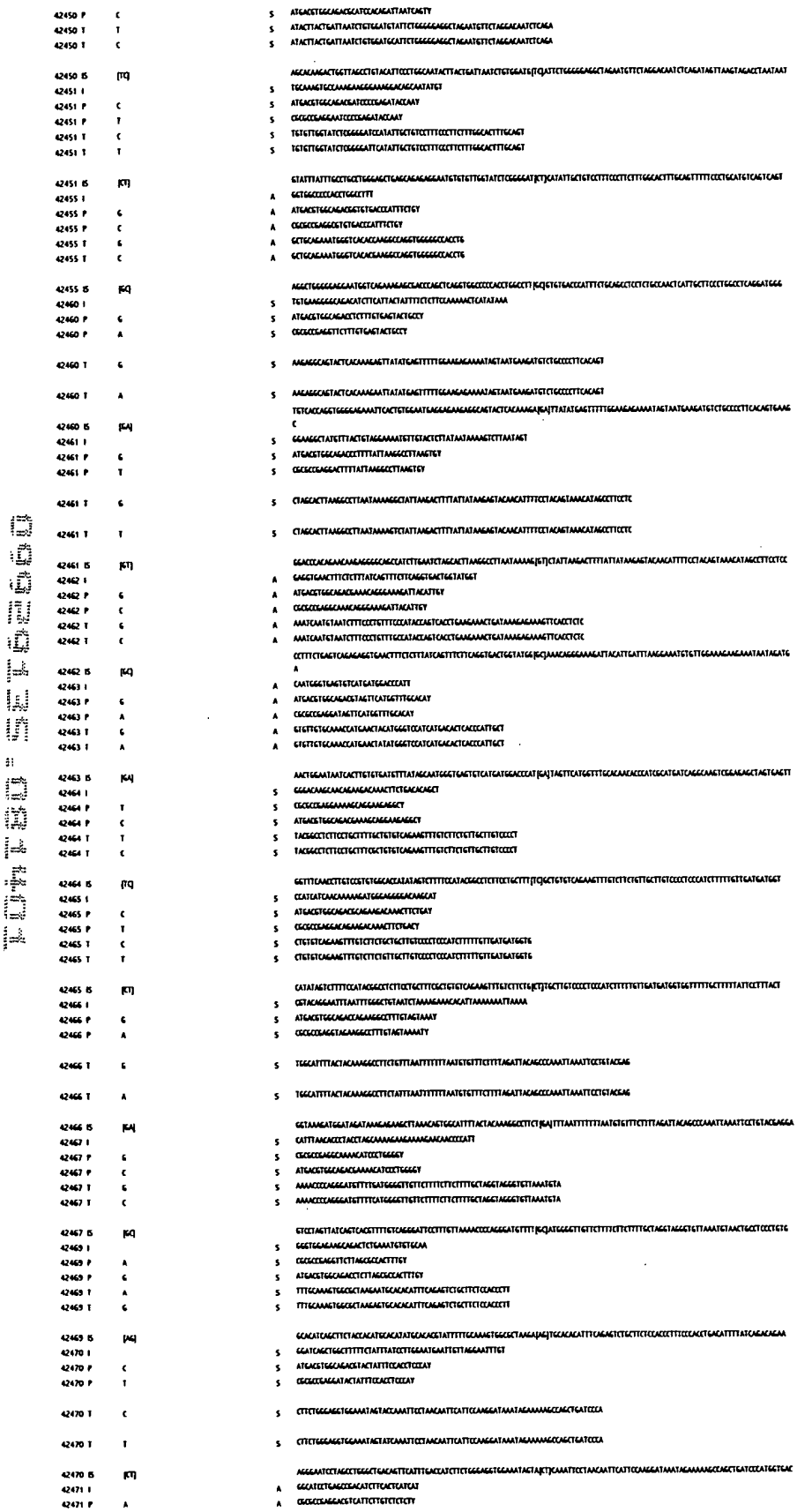
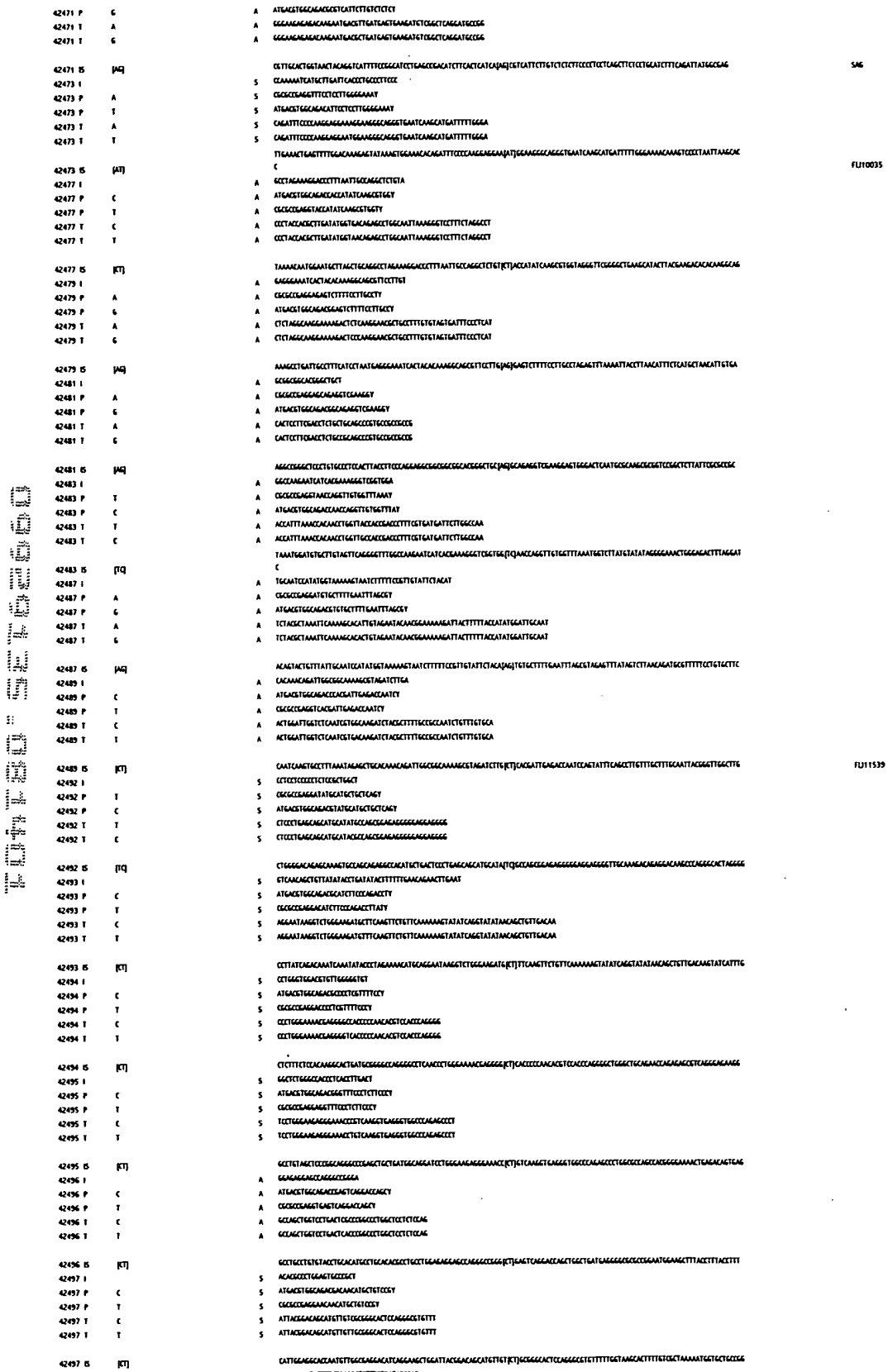
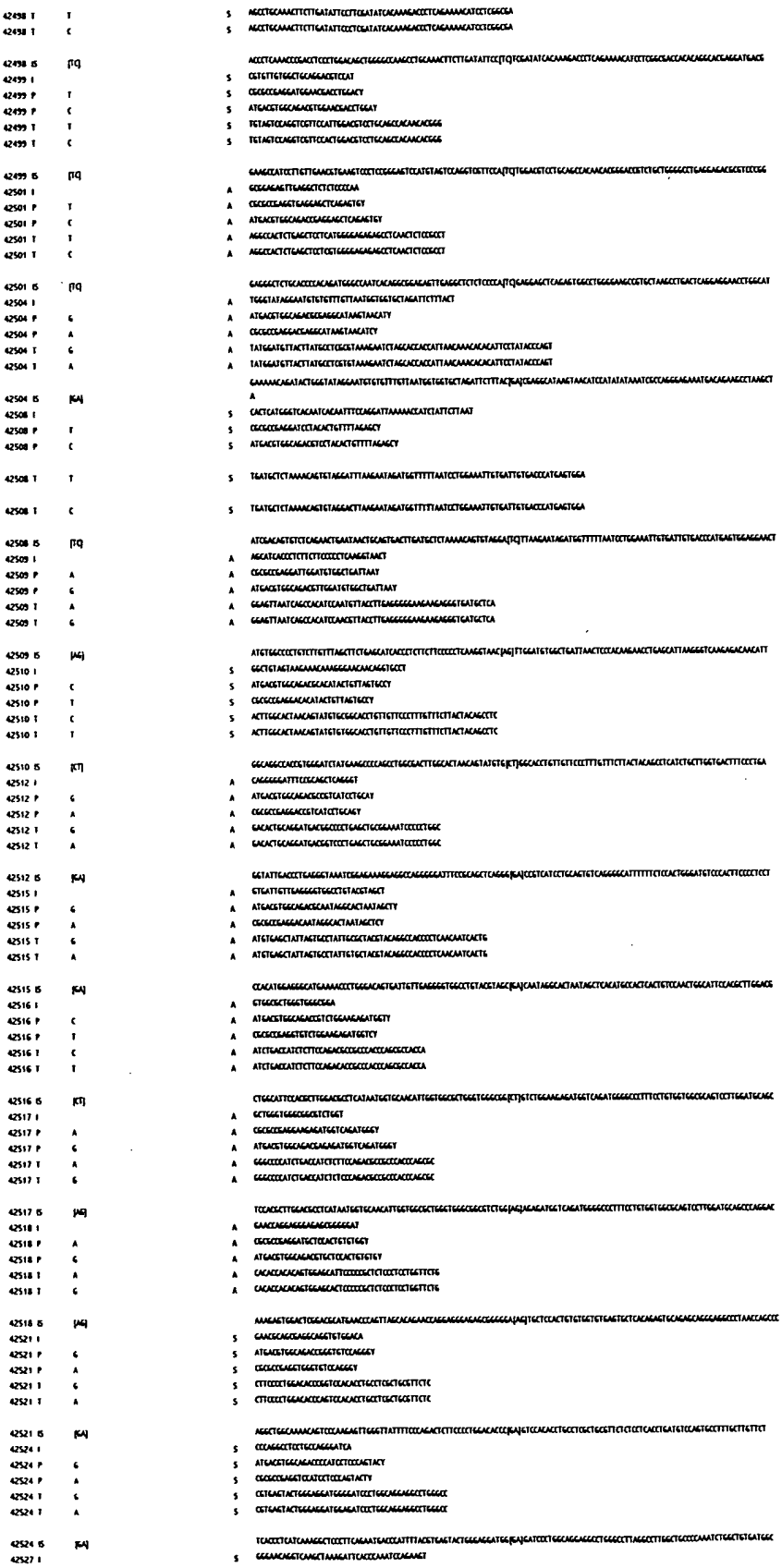


FIGURE 129F





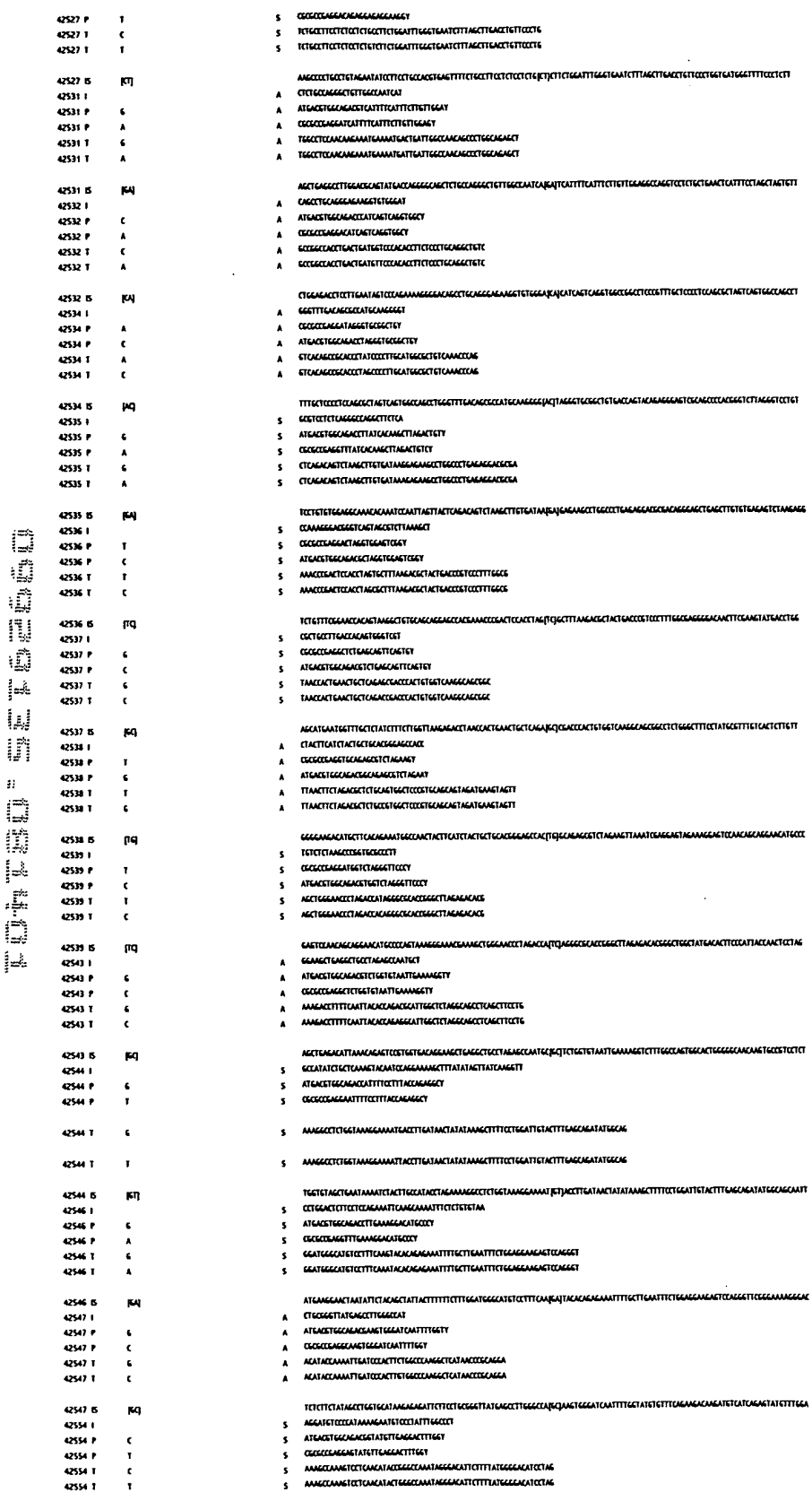


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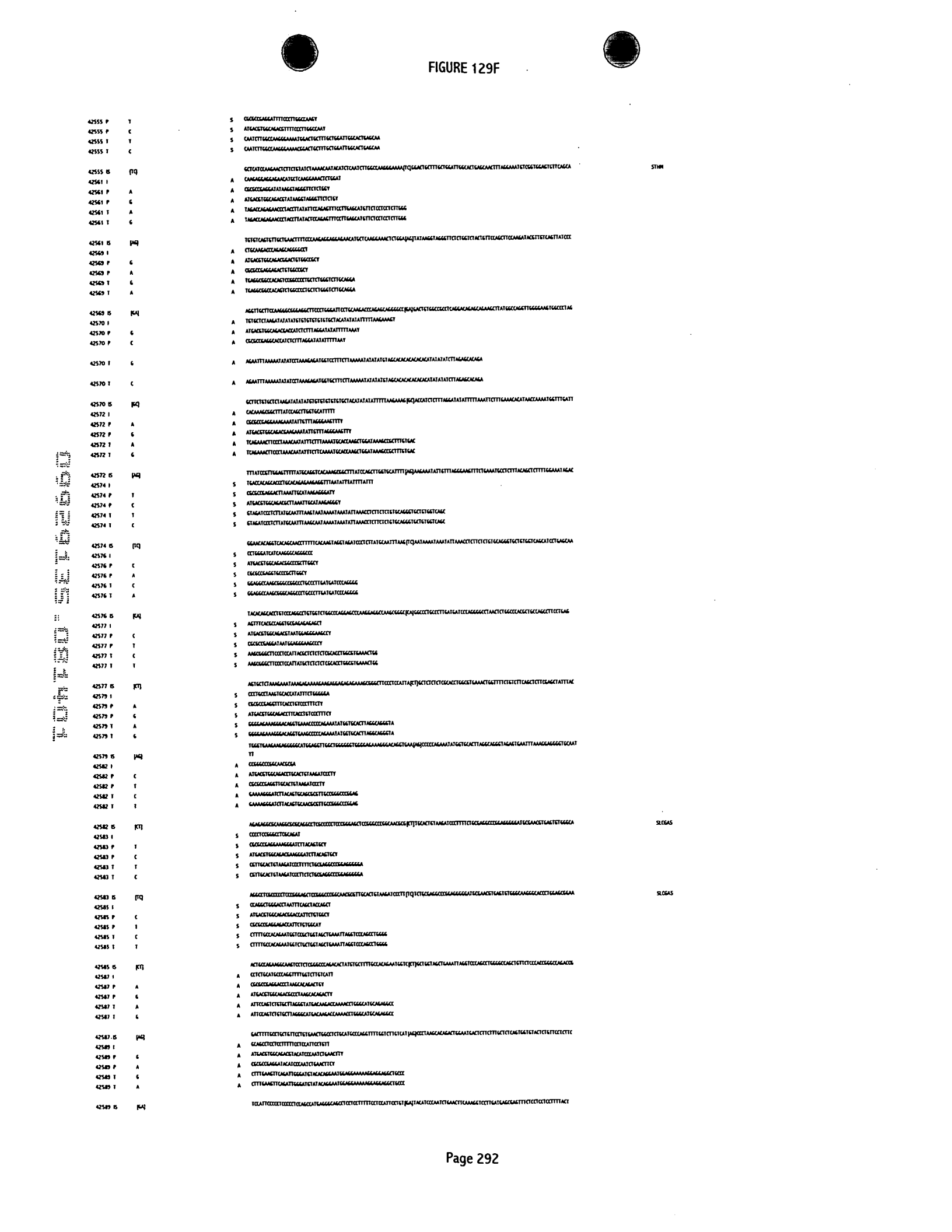


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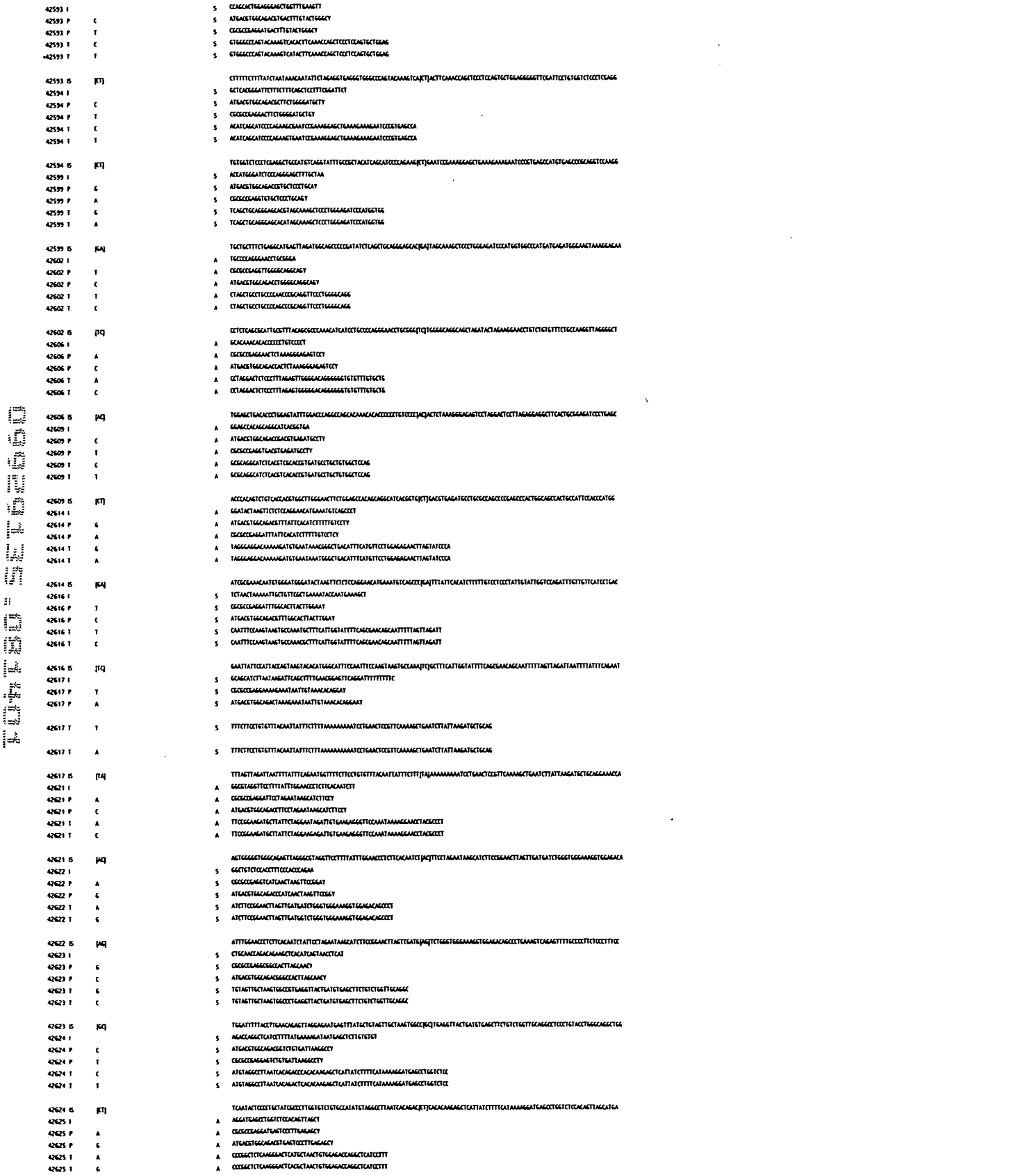
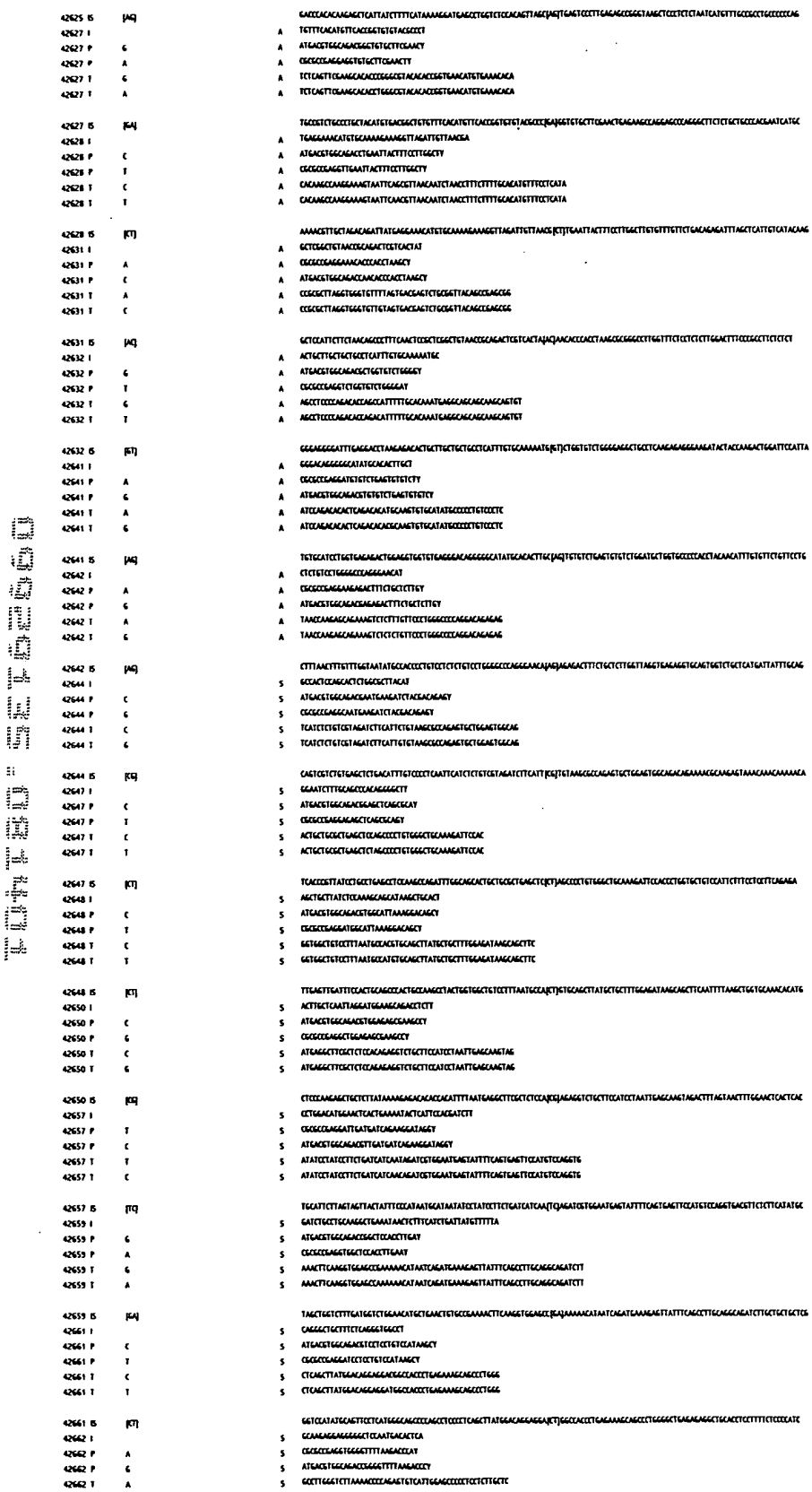


FIGURE 129F



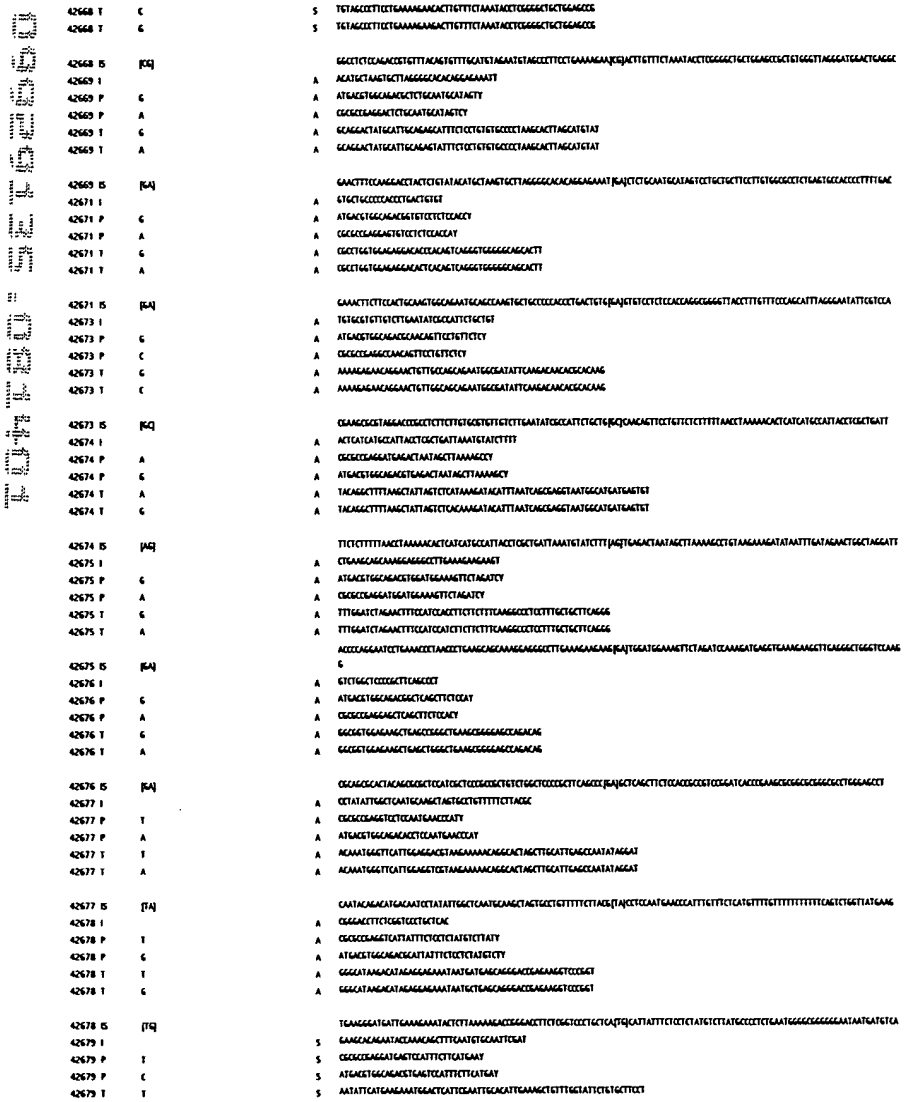


FIGURE 129F

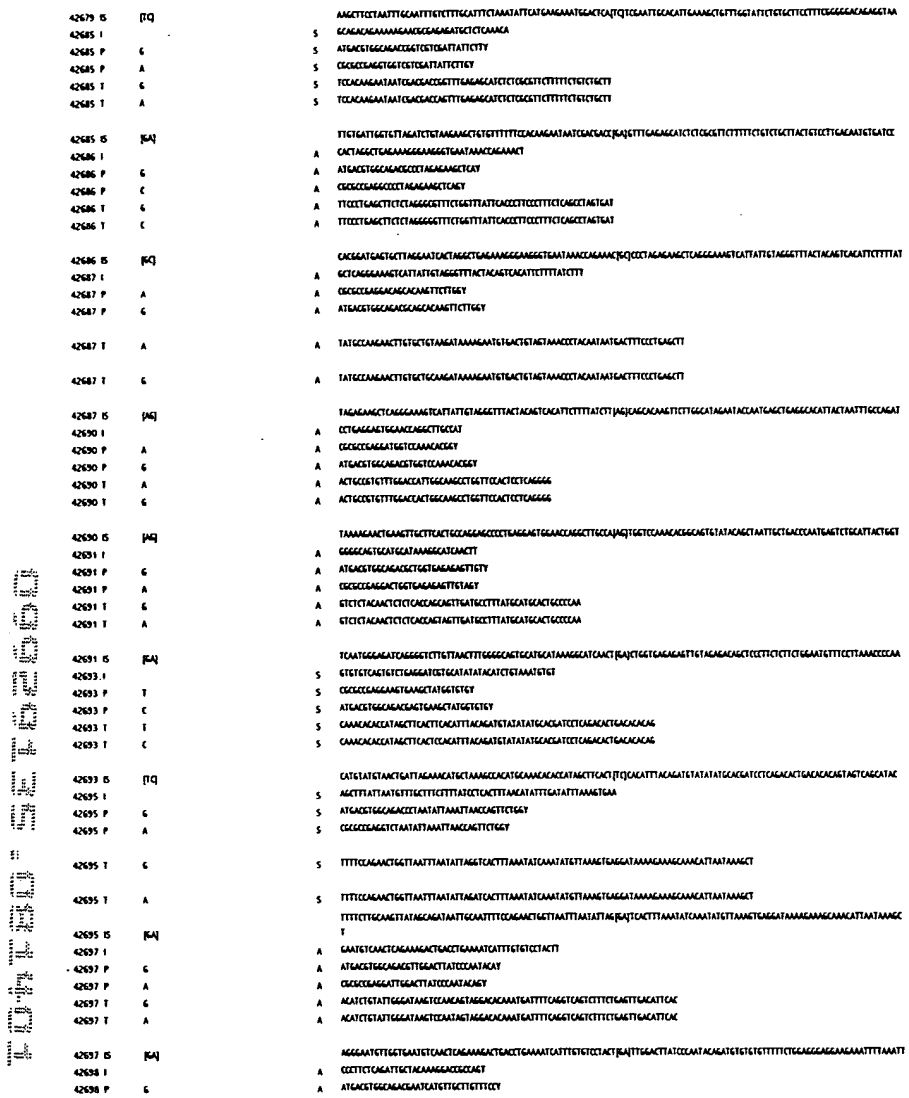


FIGURE 129F

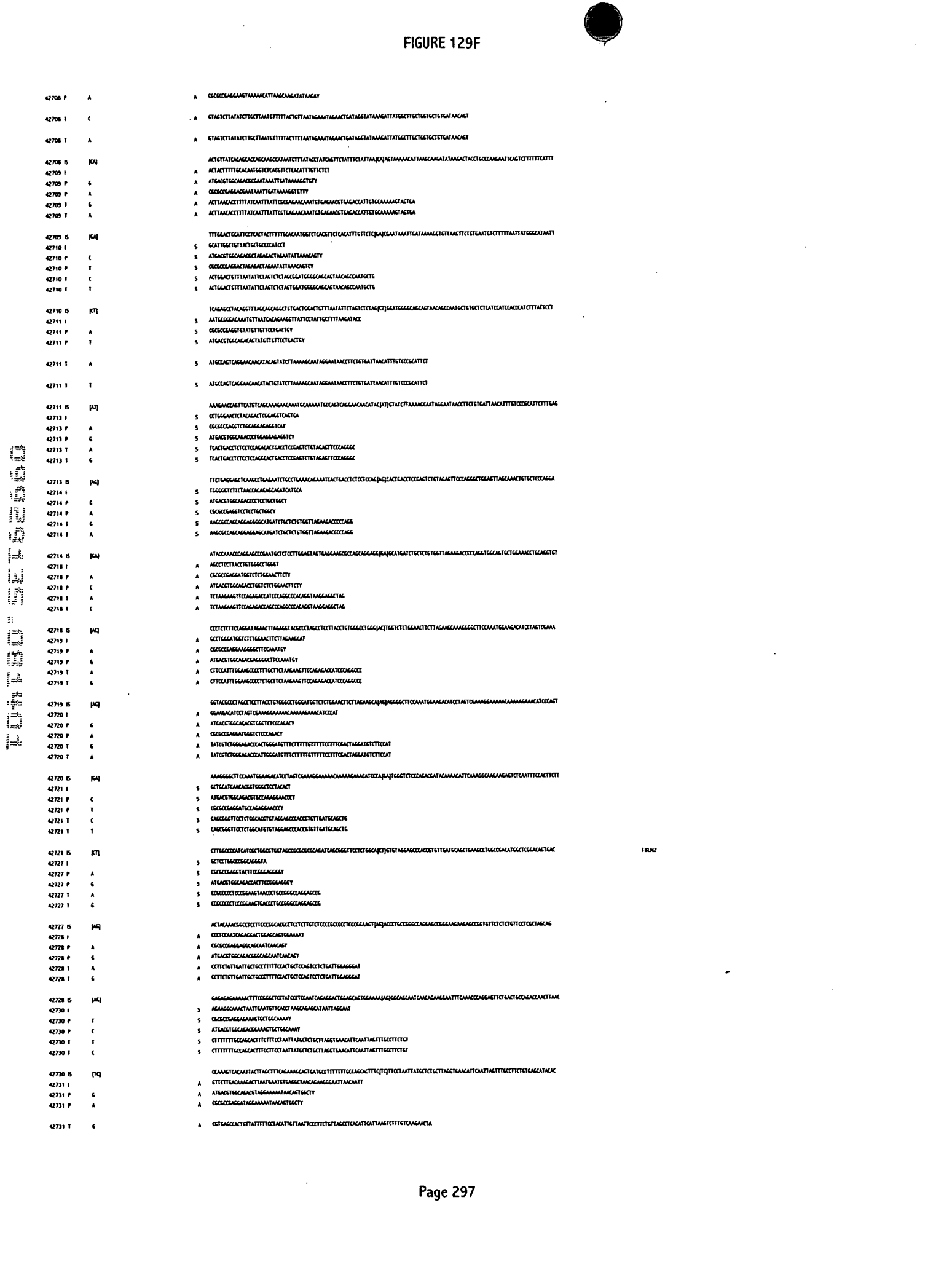


FIGURE 129F

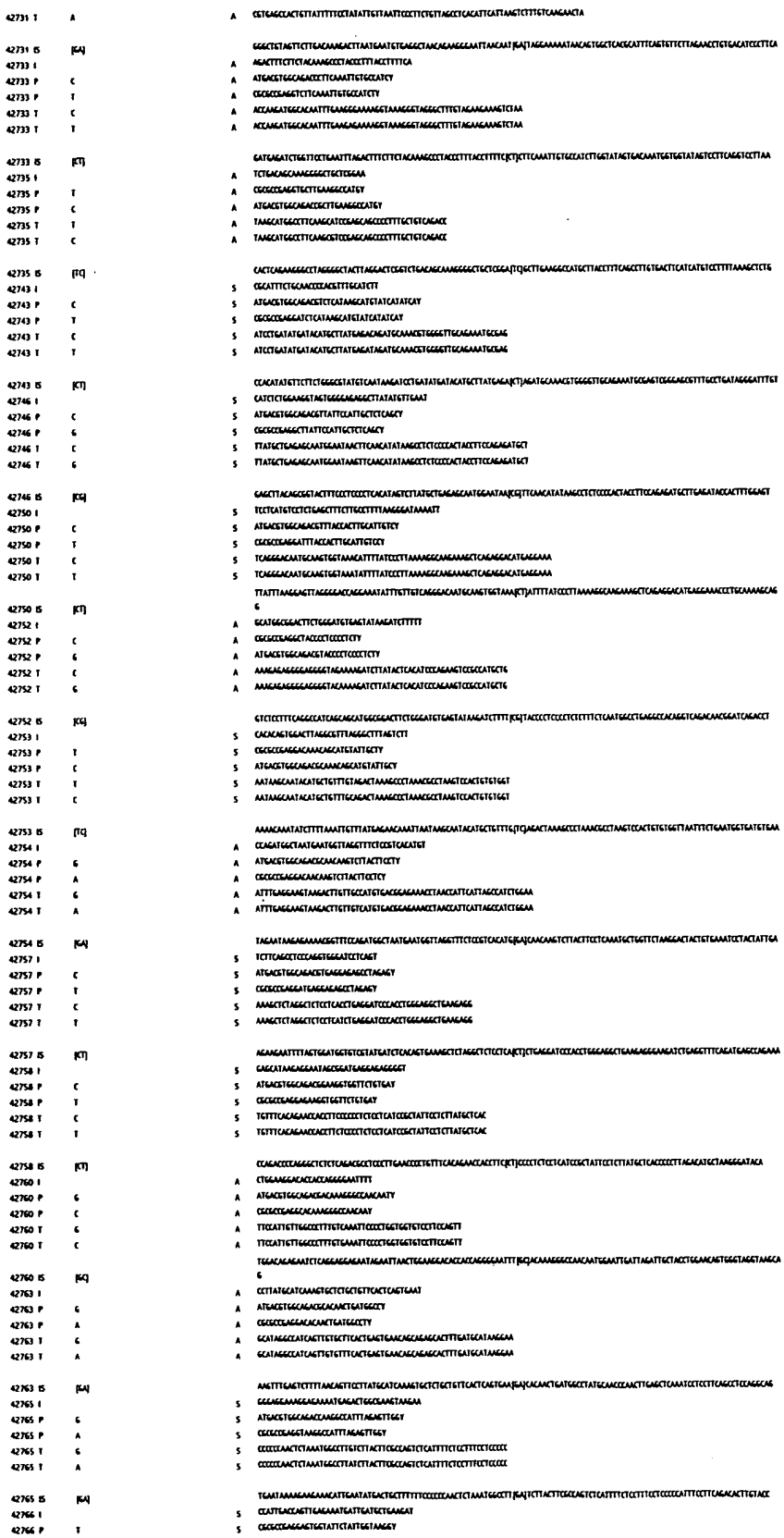


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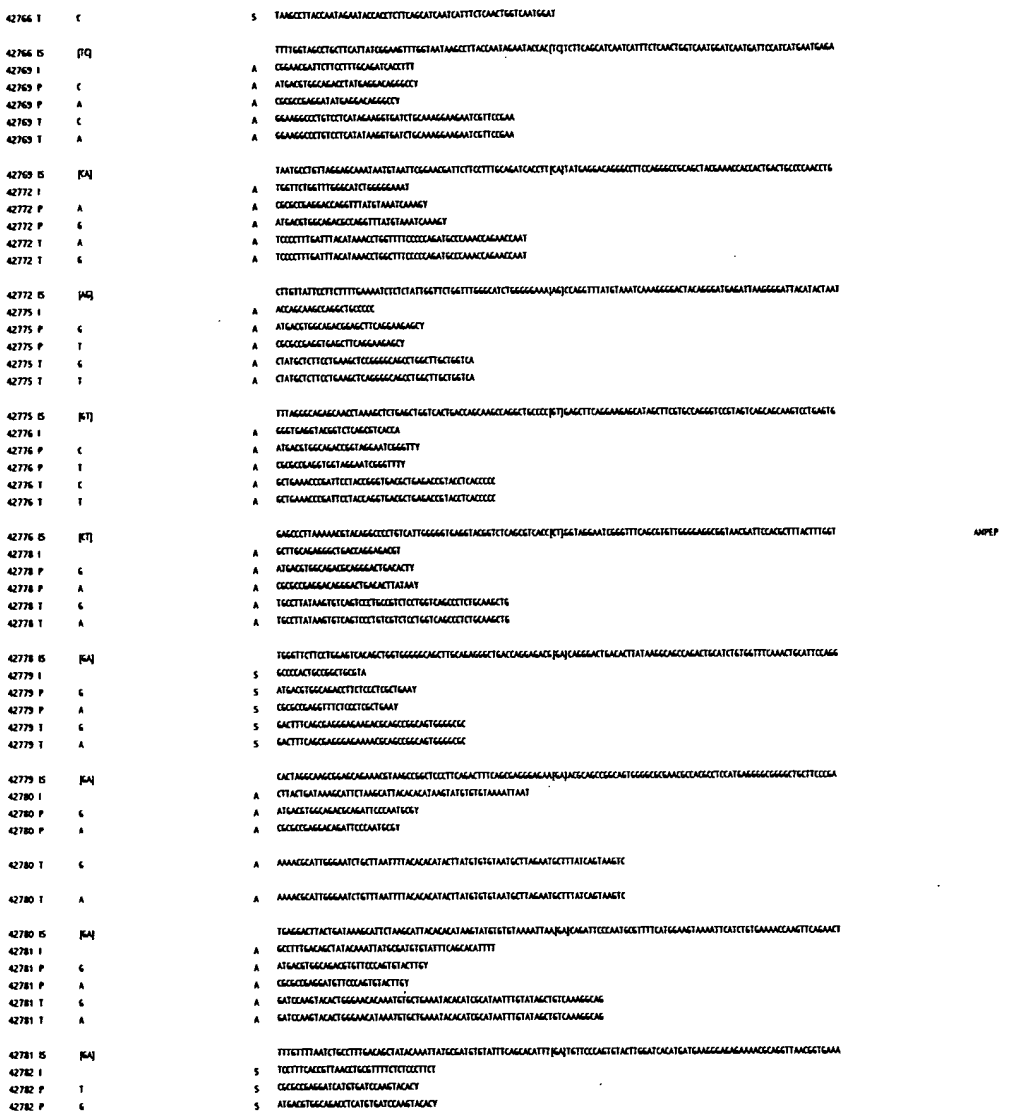


FIGURE 129F

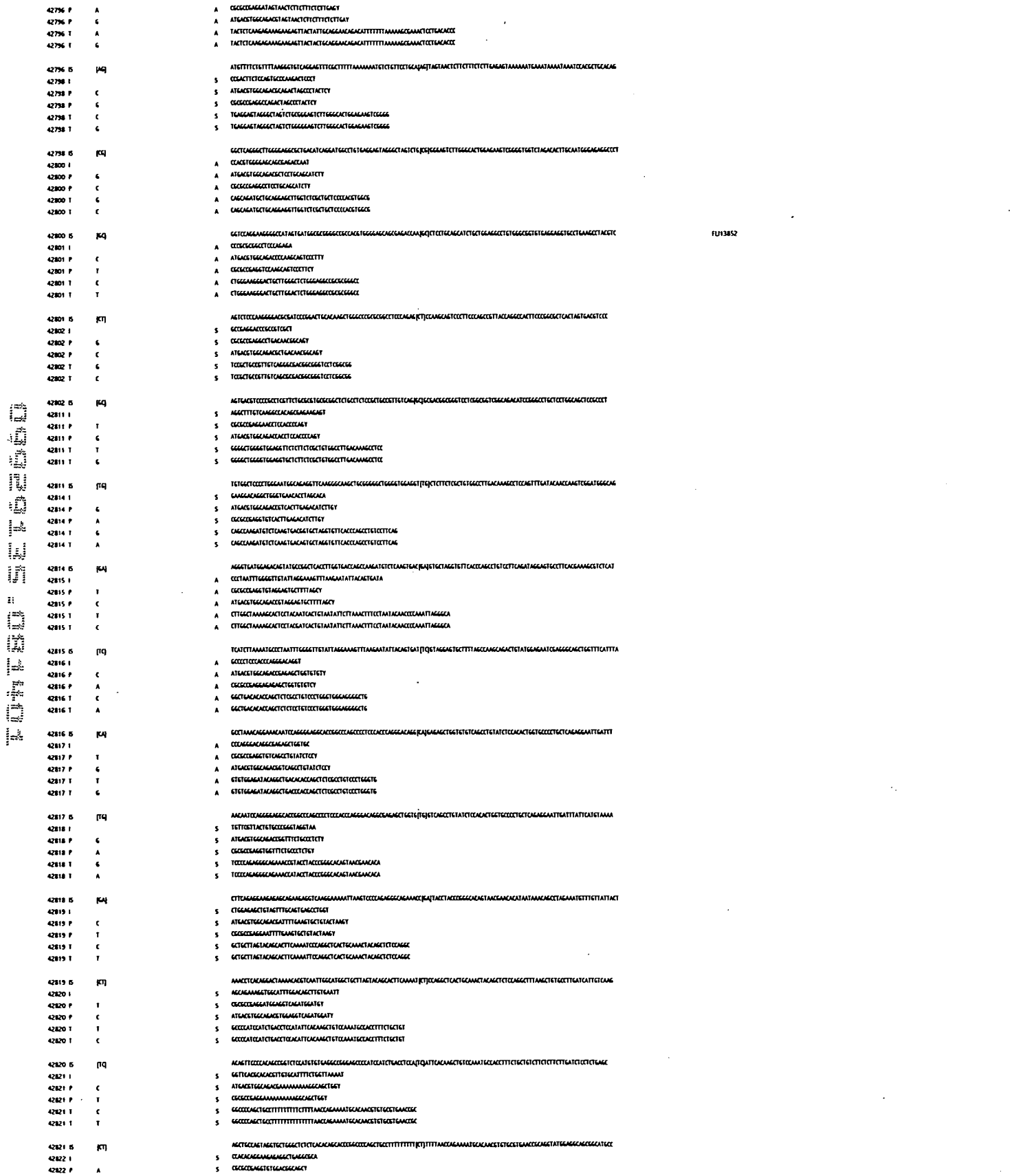
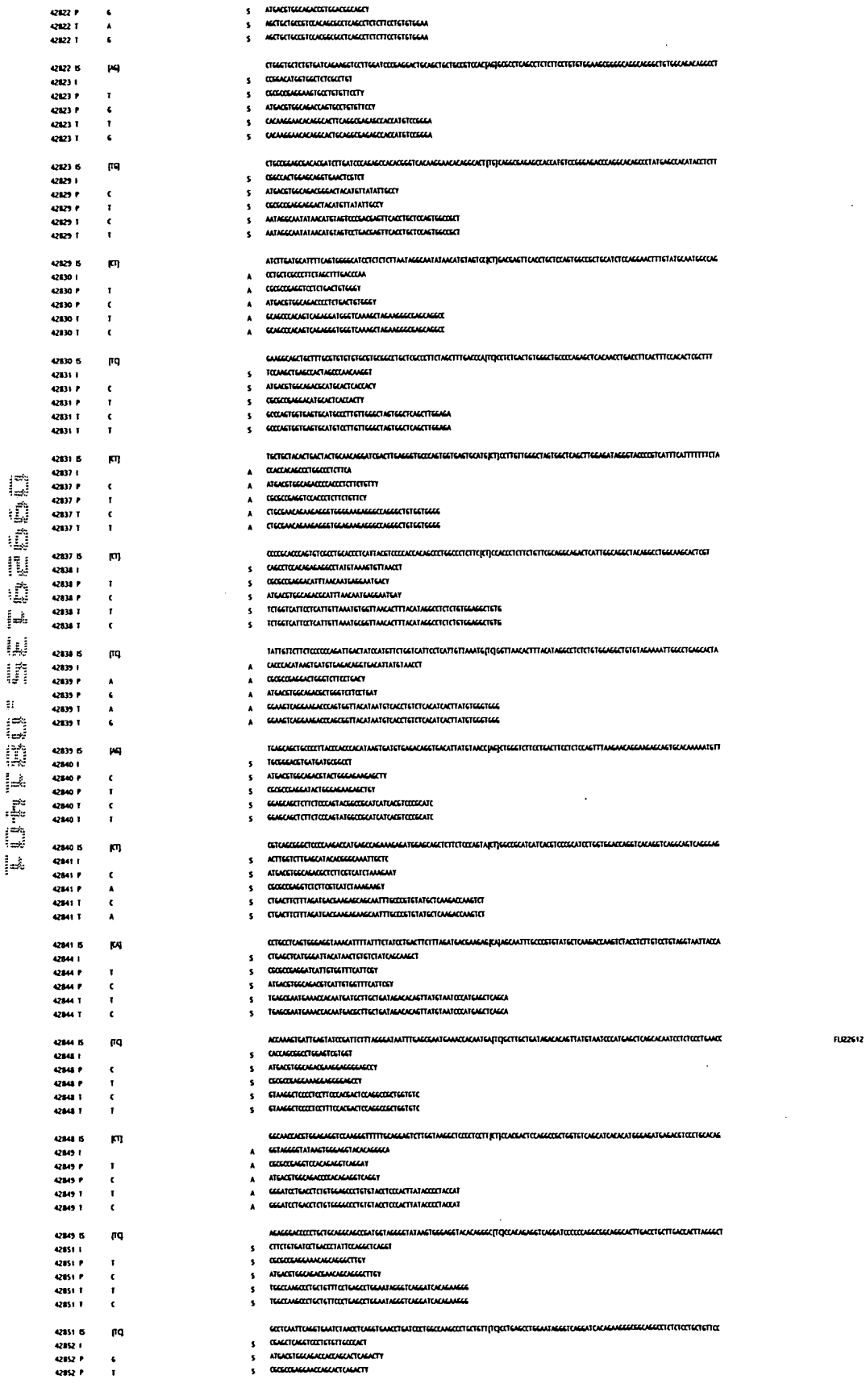
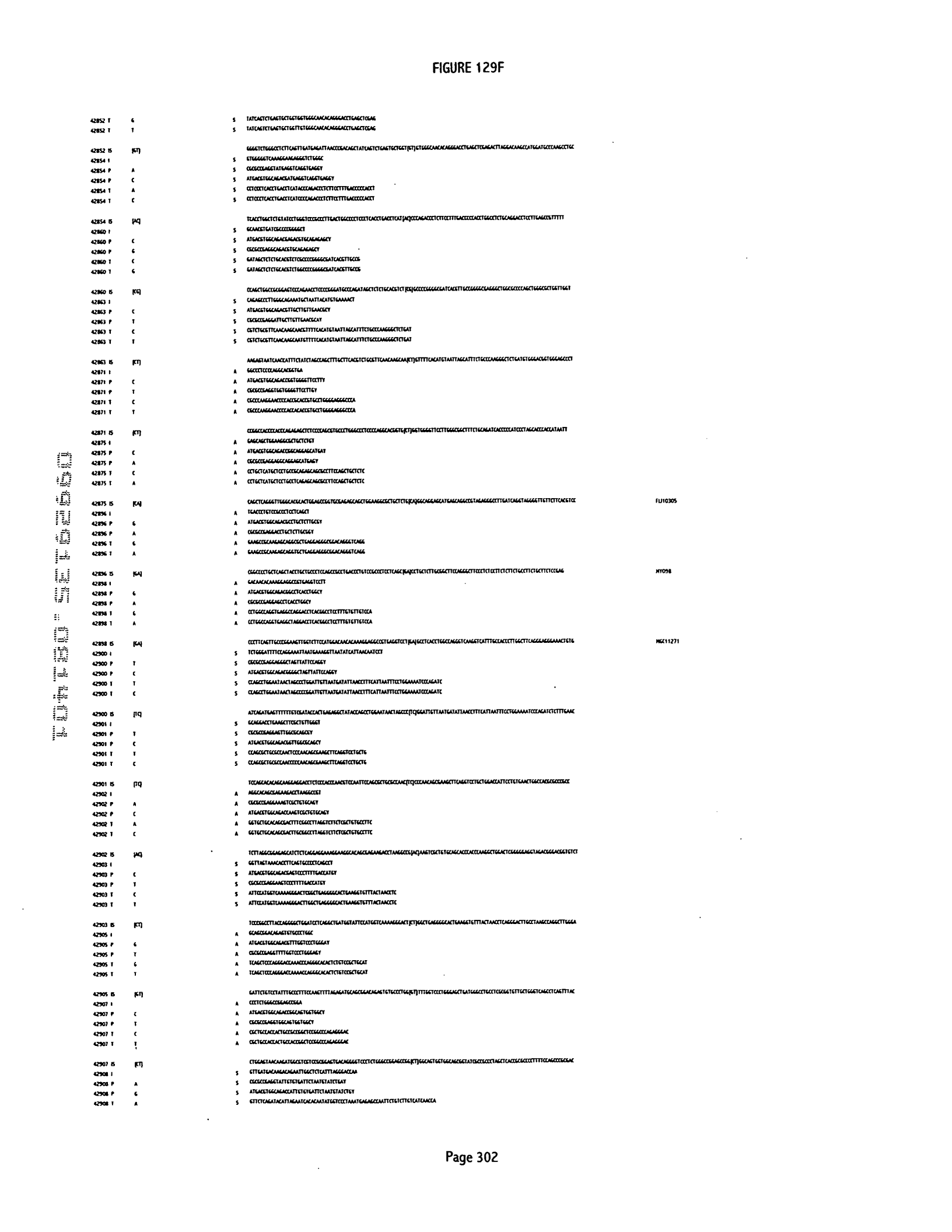


FIGURE 129F





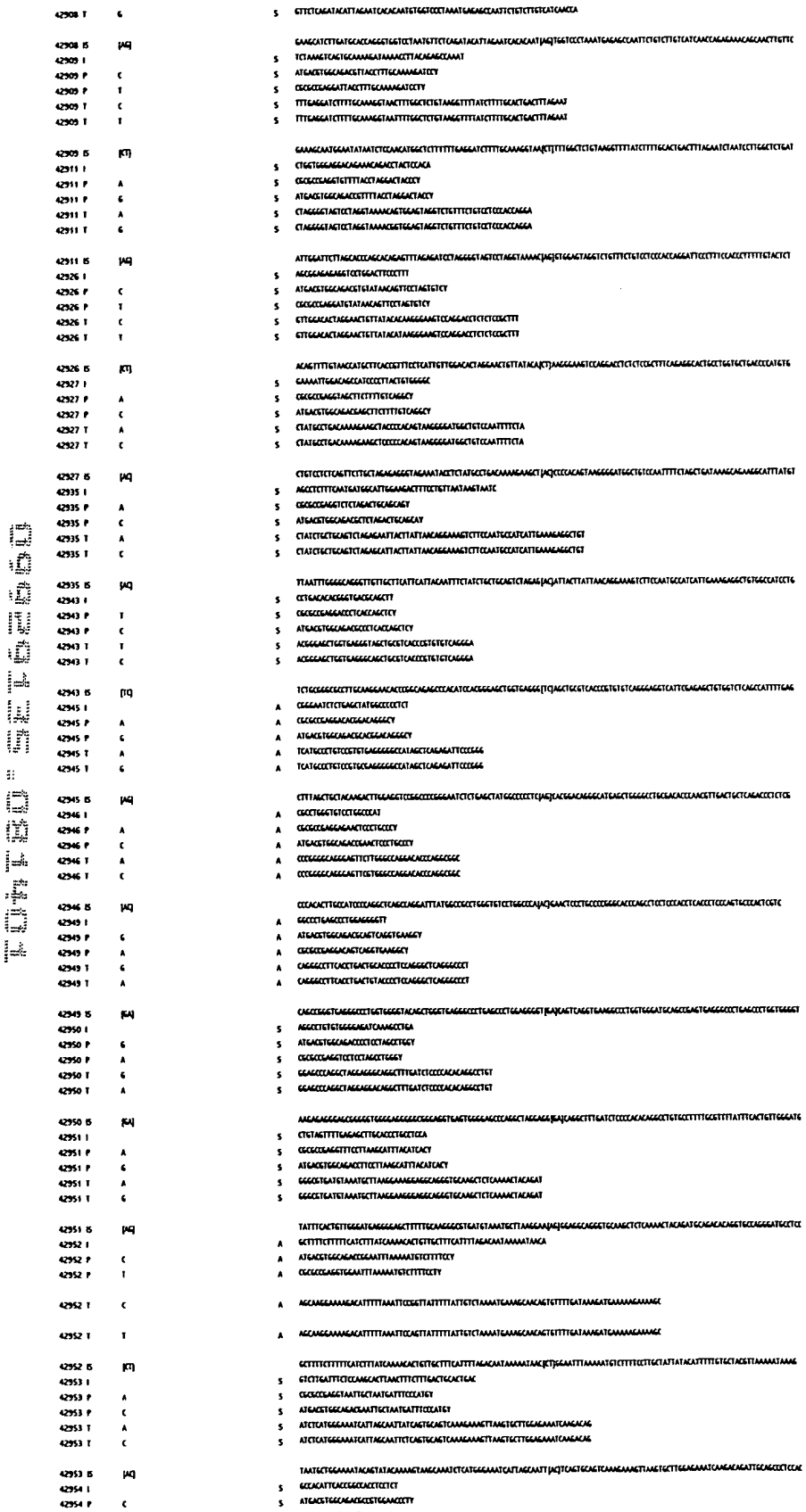
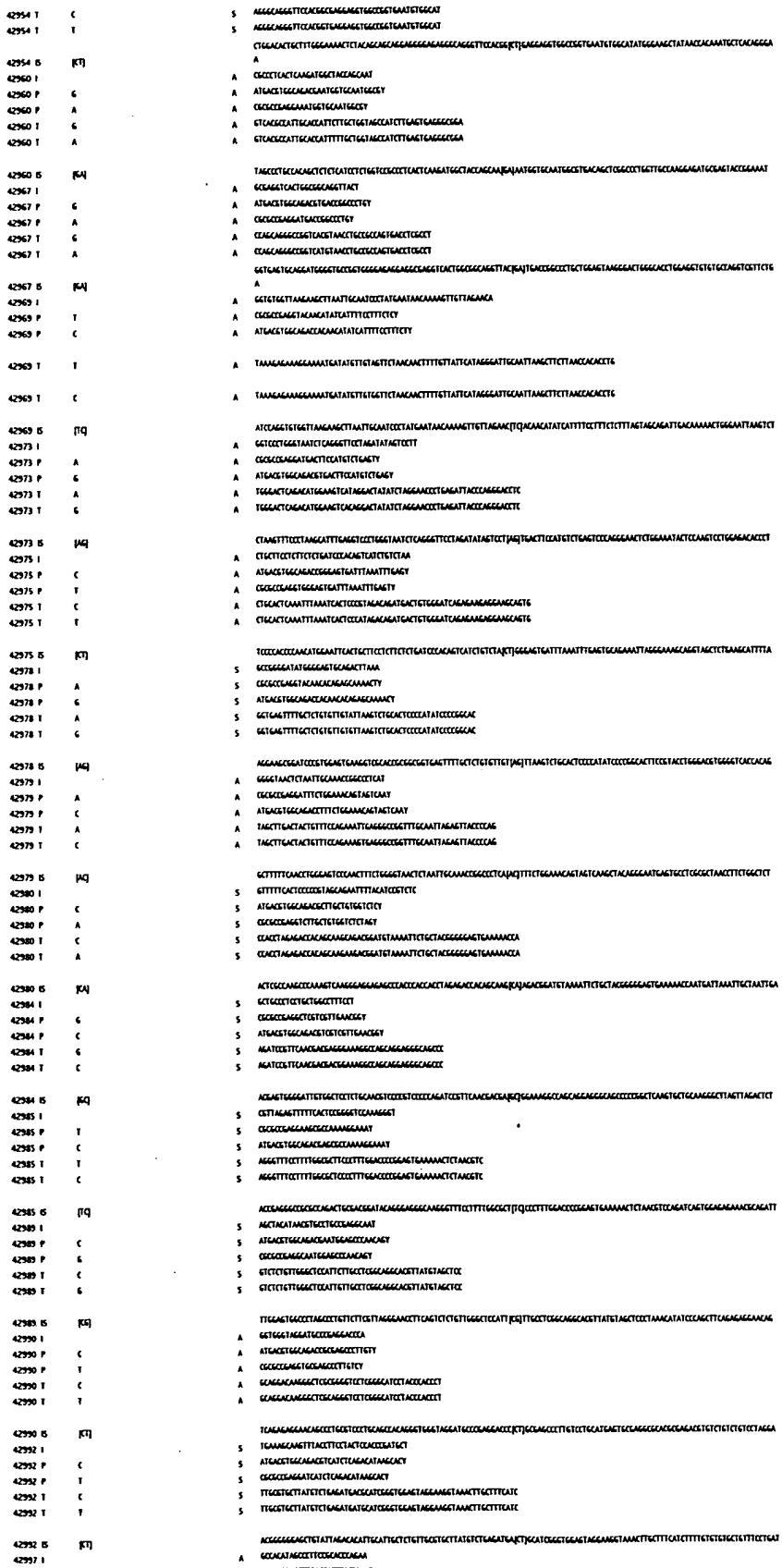


FIGURE 129F



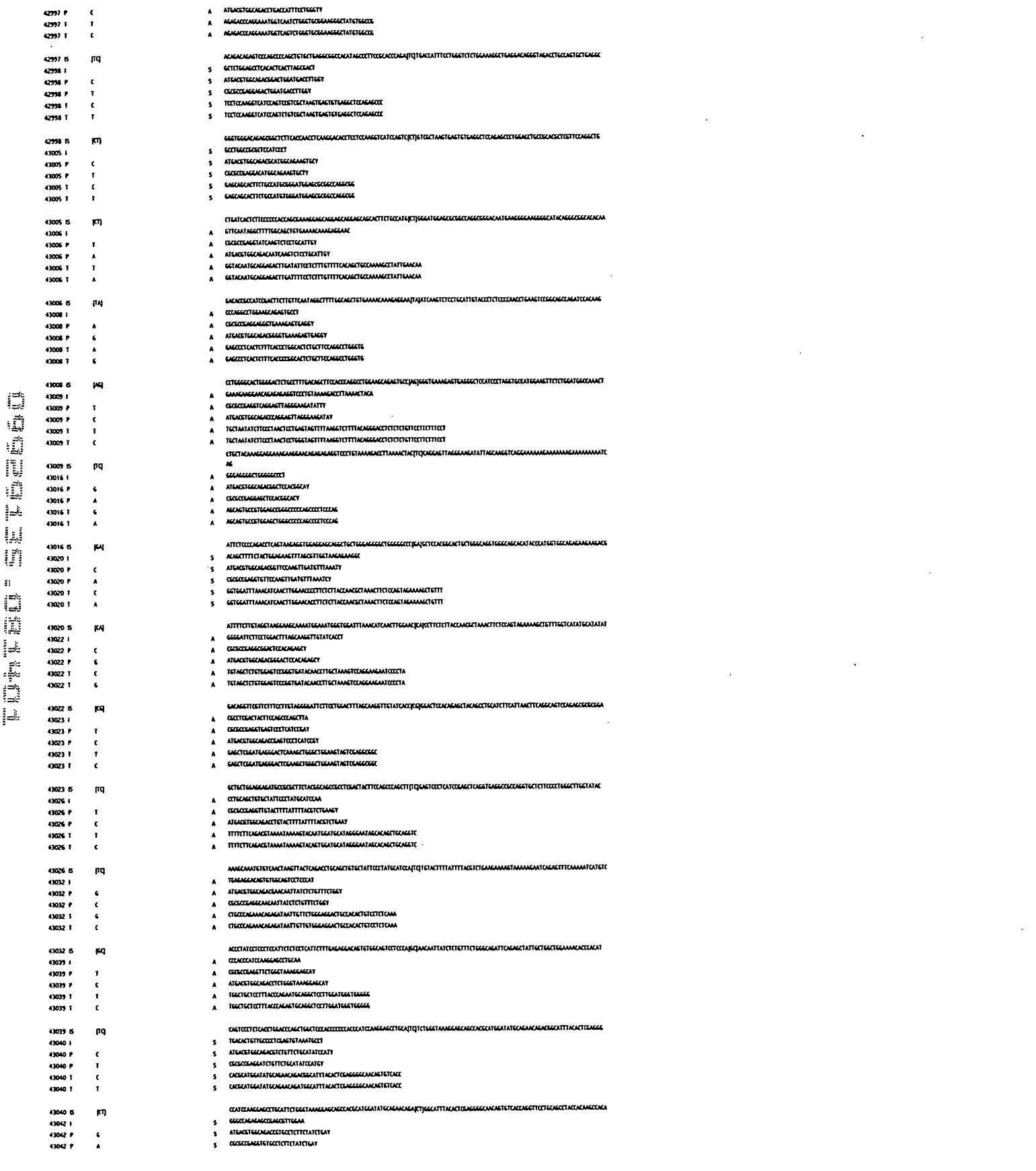
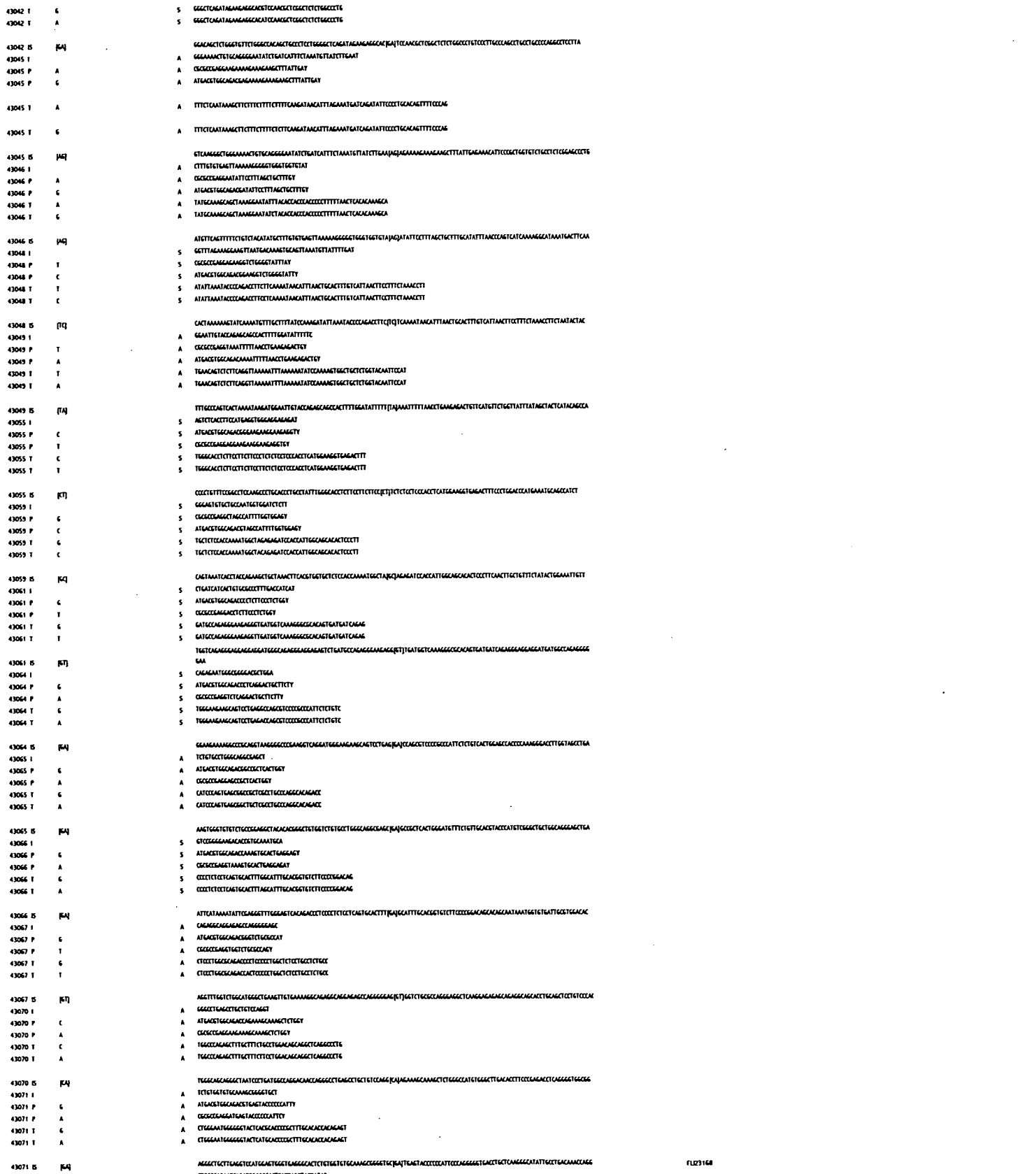
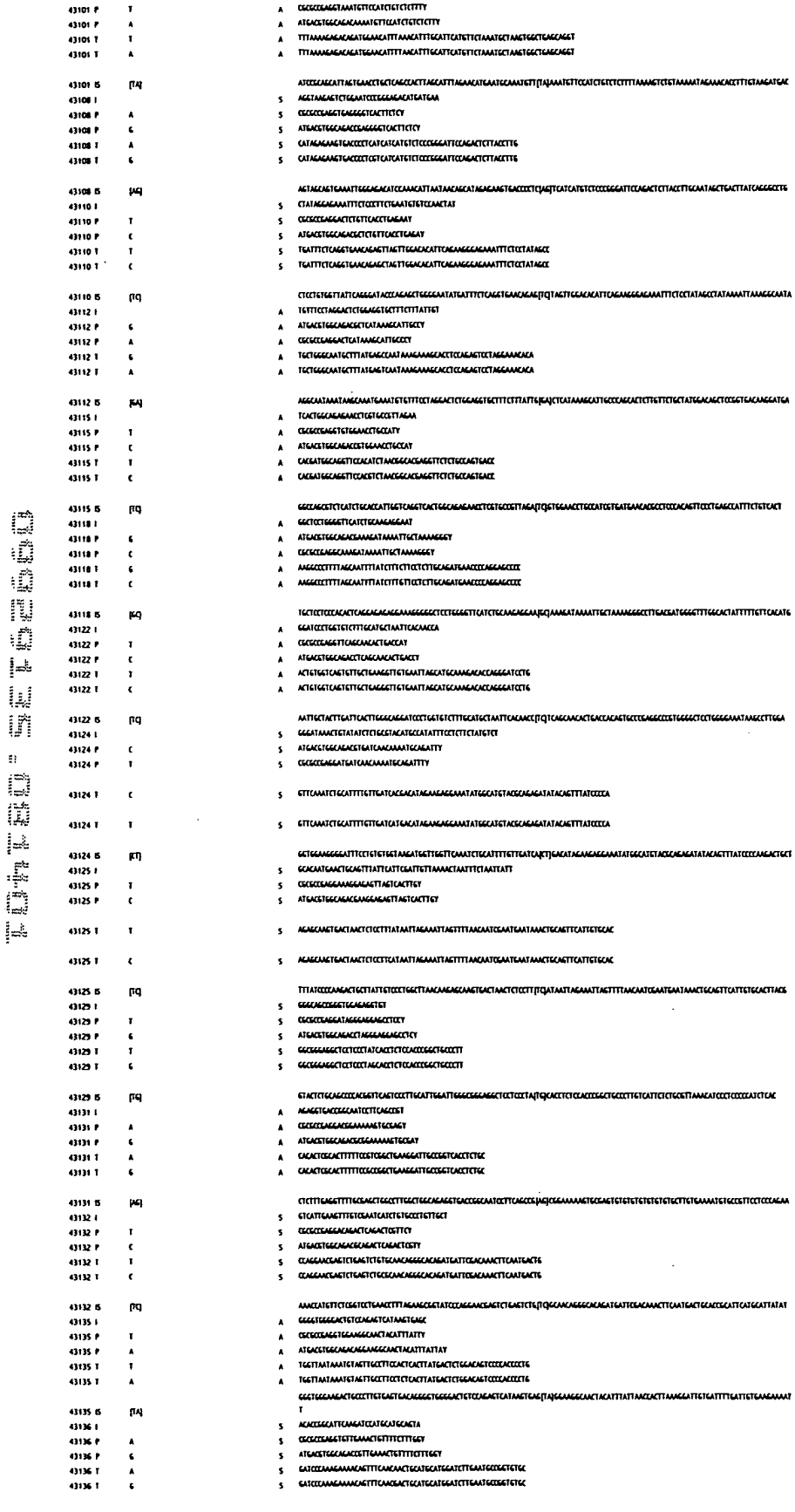


FIGURE 129F







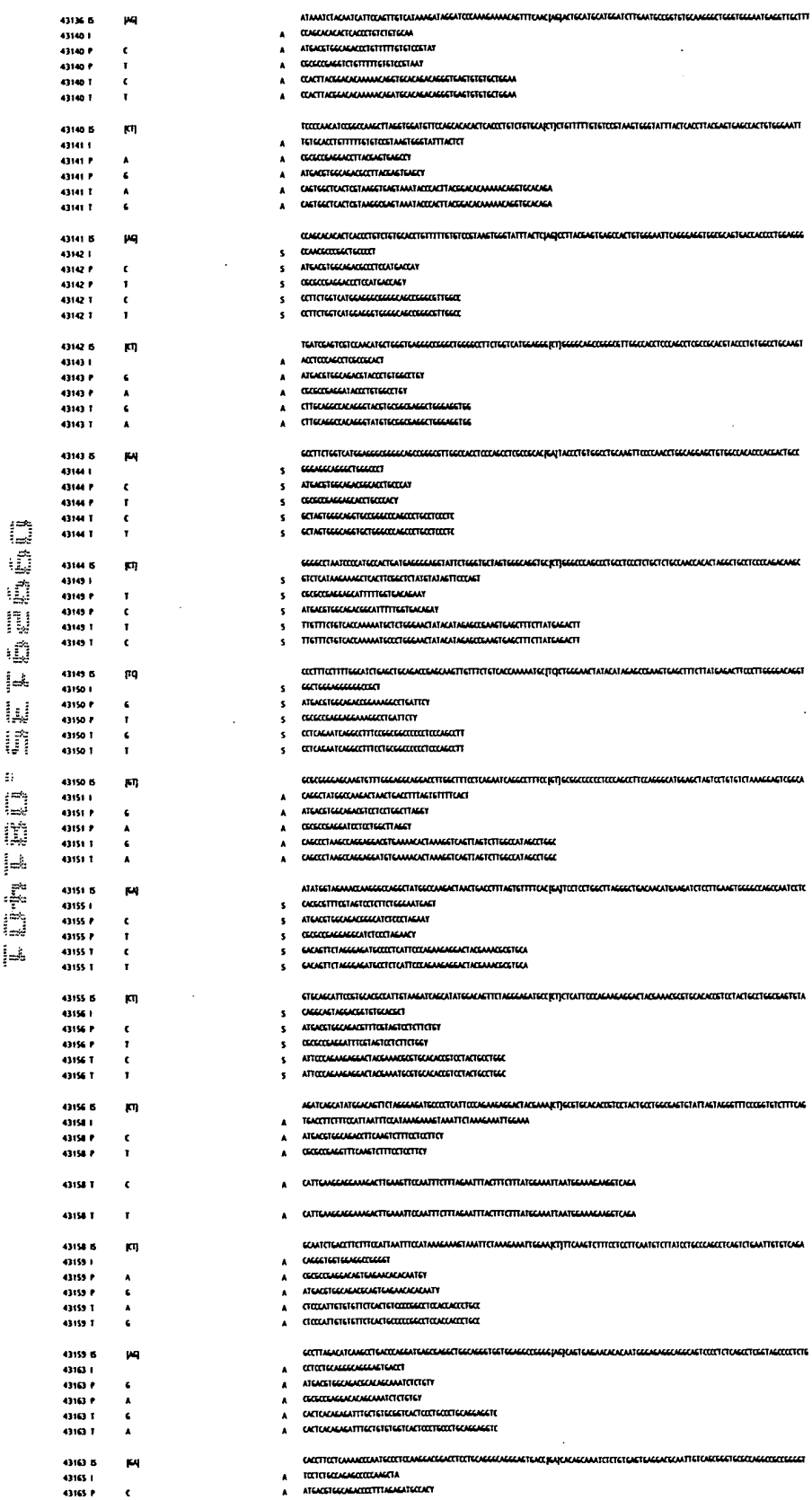


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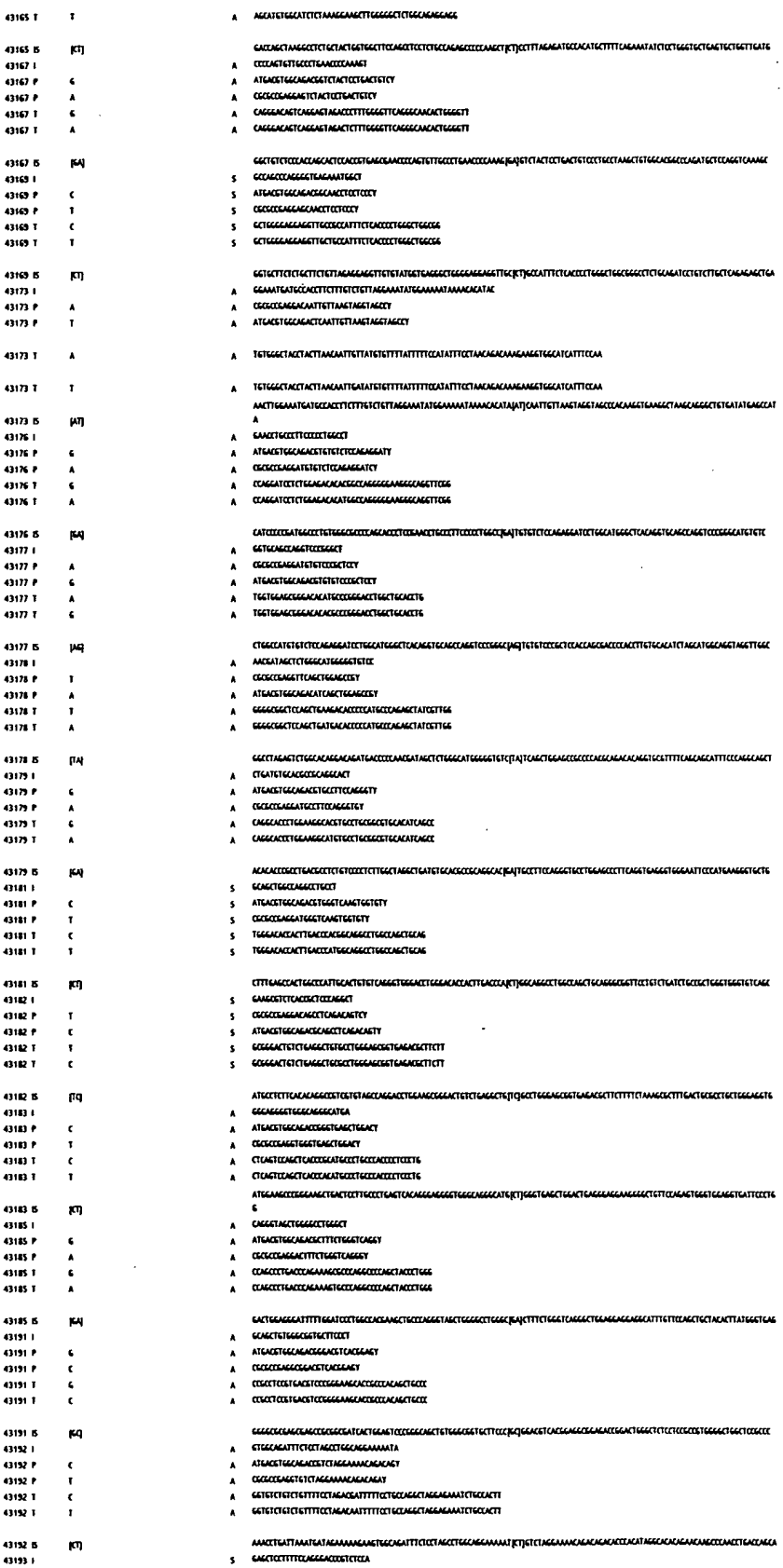
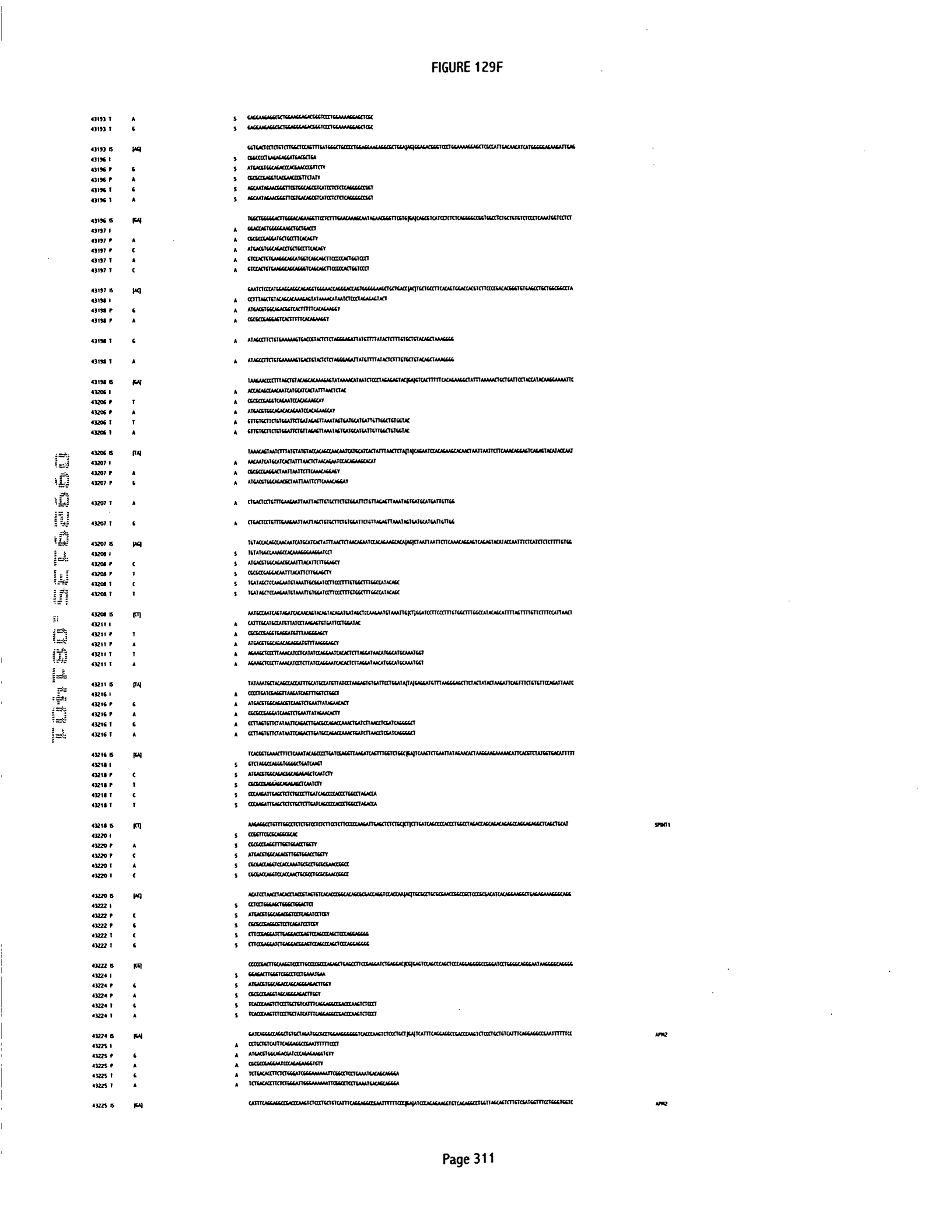
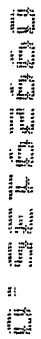
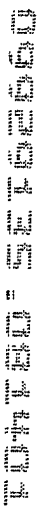


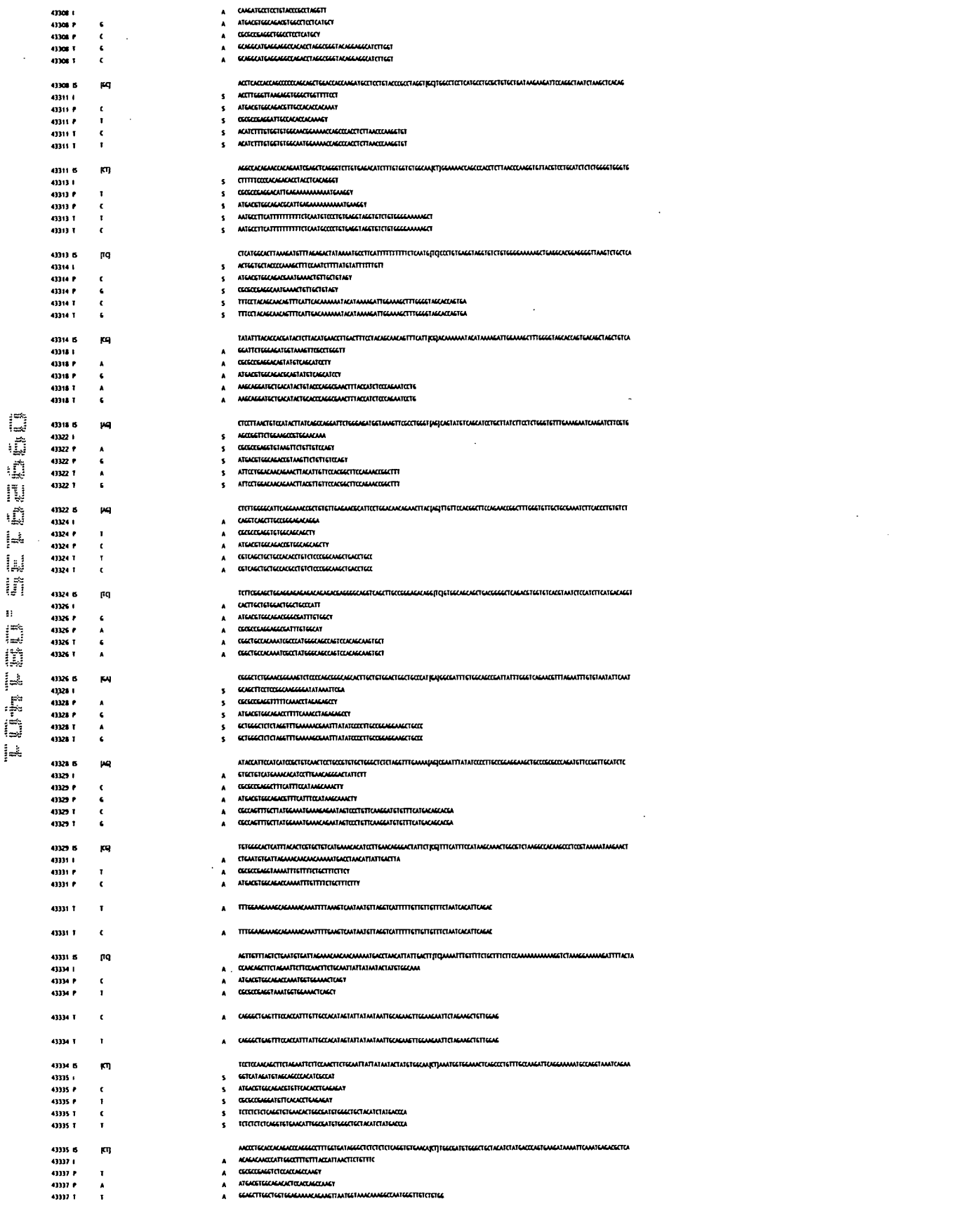
FIGURE 129F





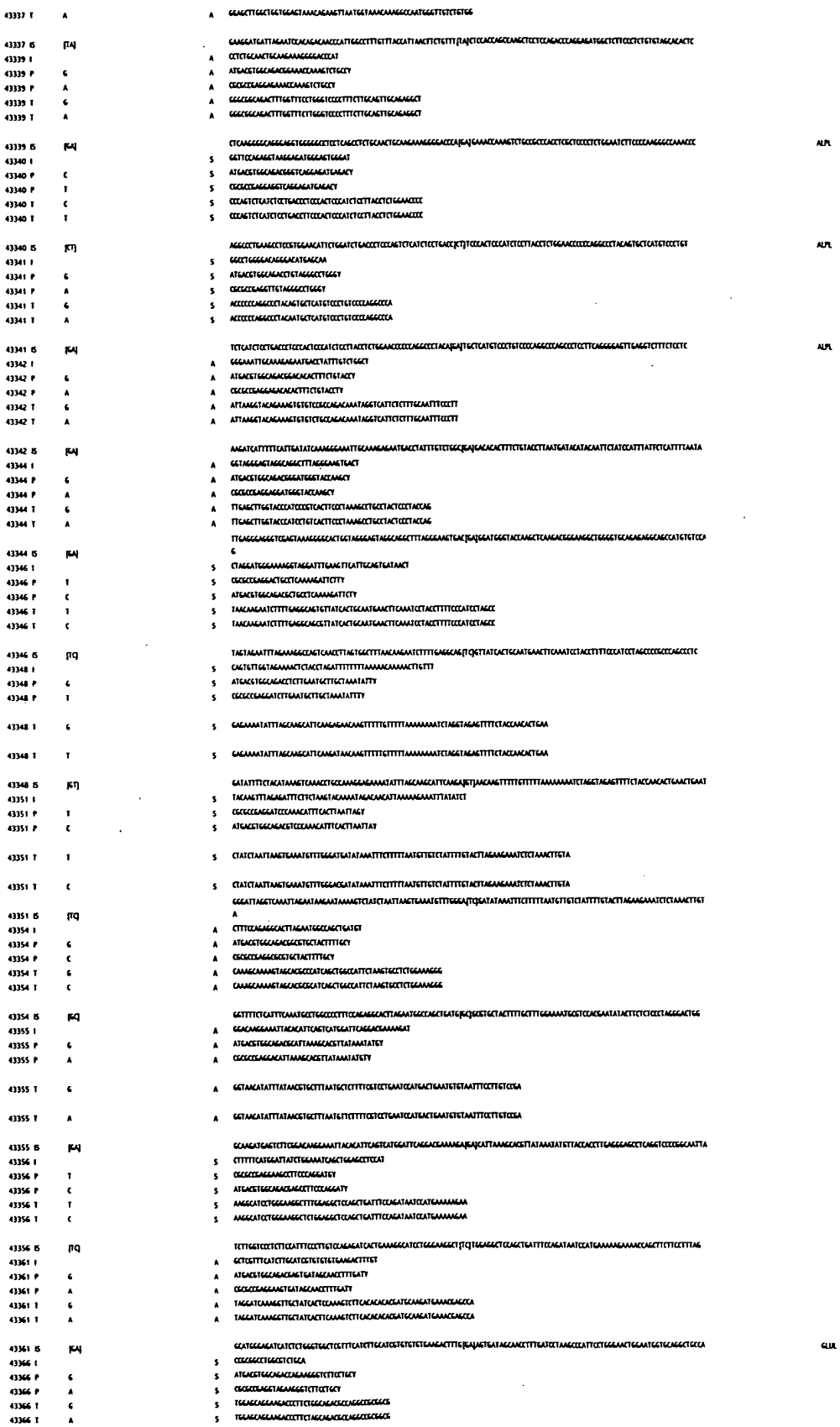
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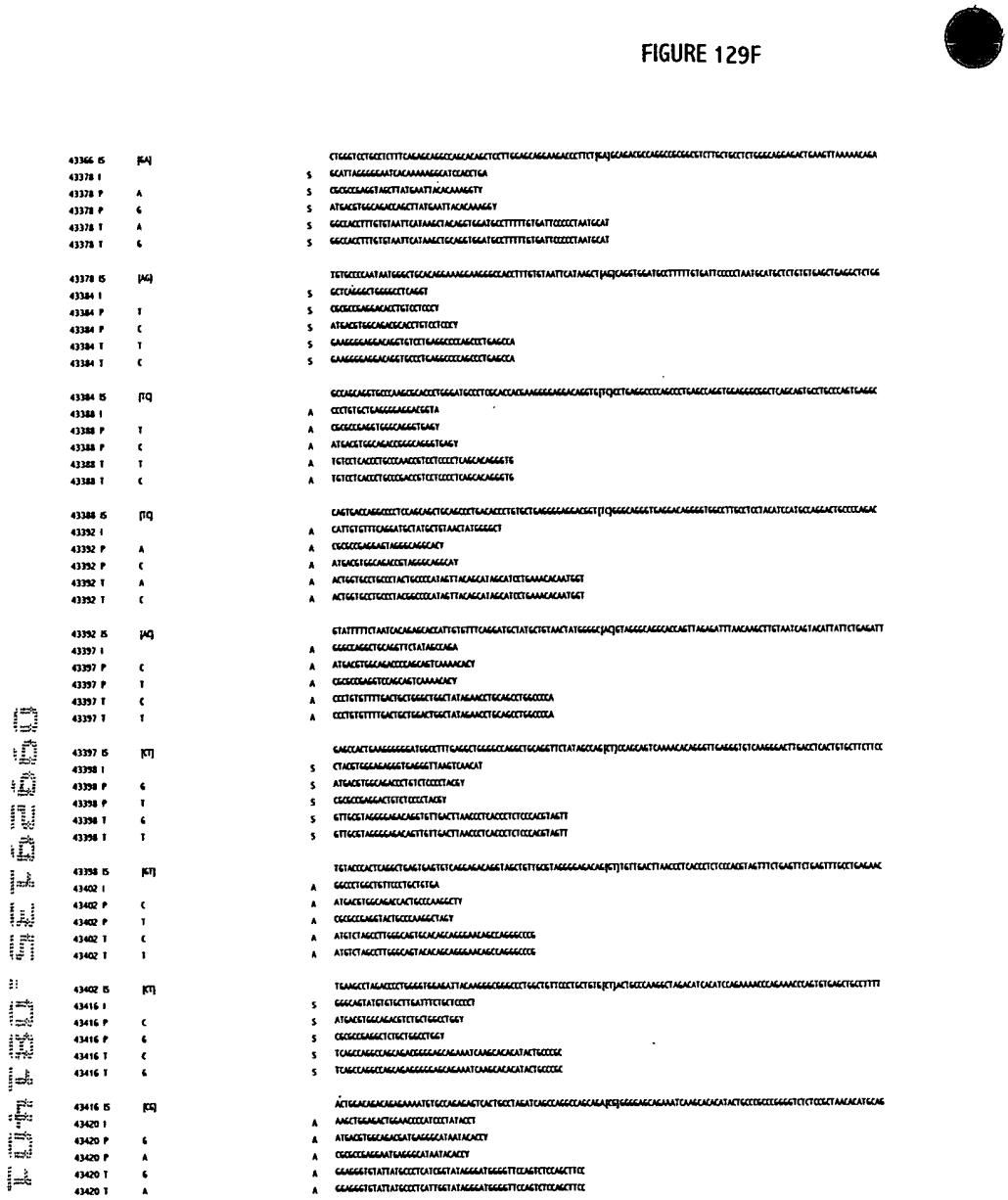




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FIGURE 129F

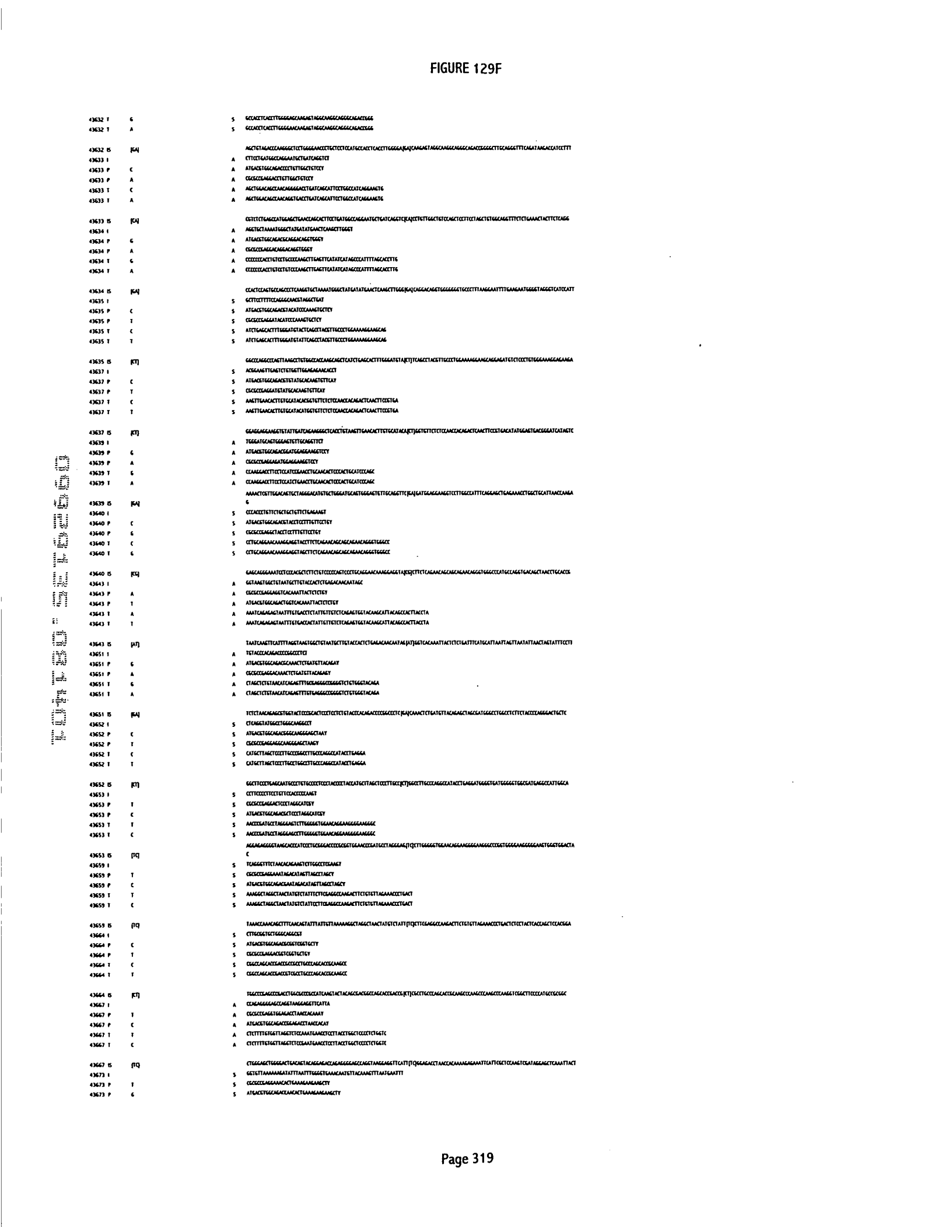






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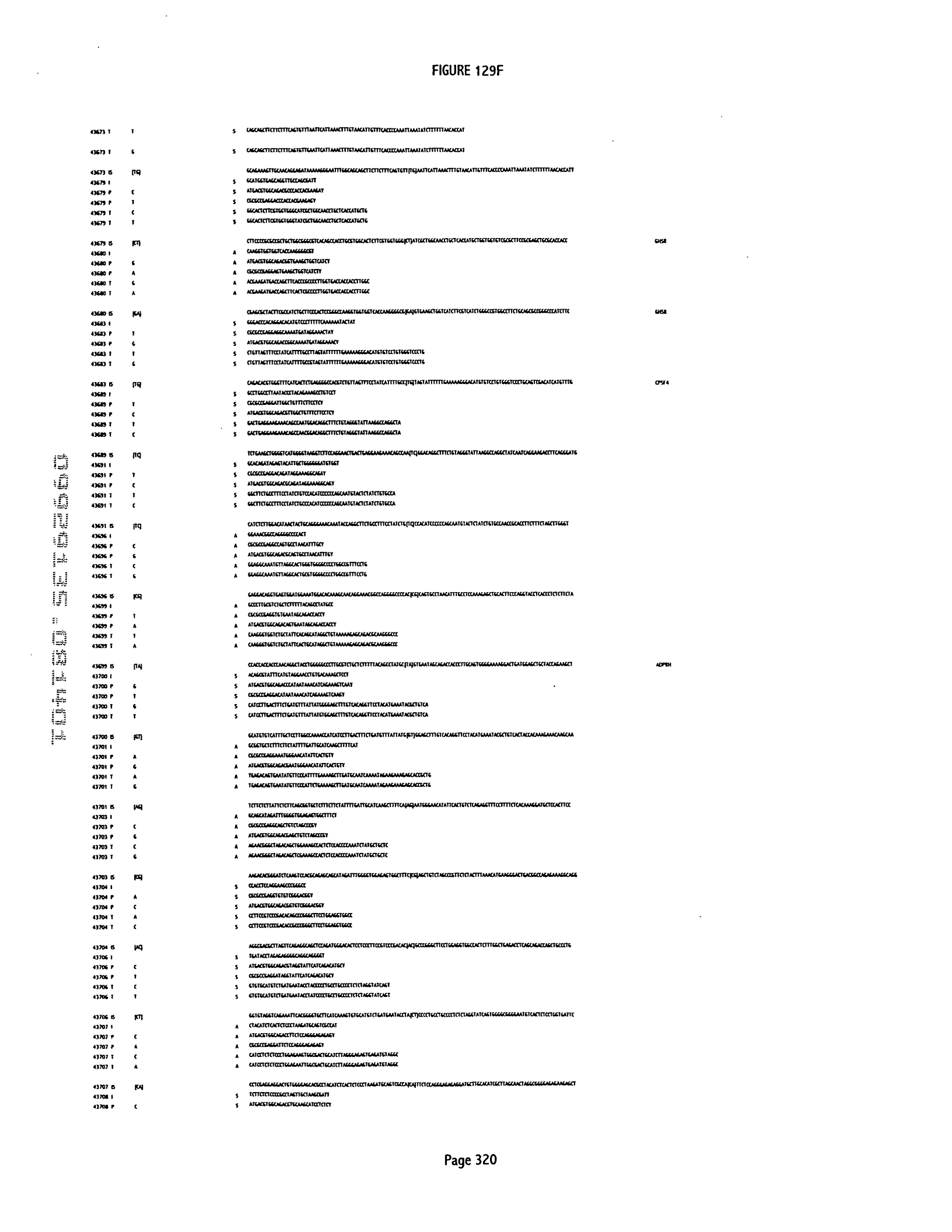
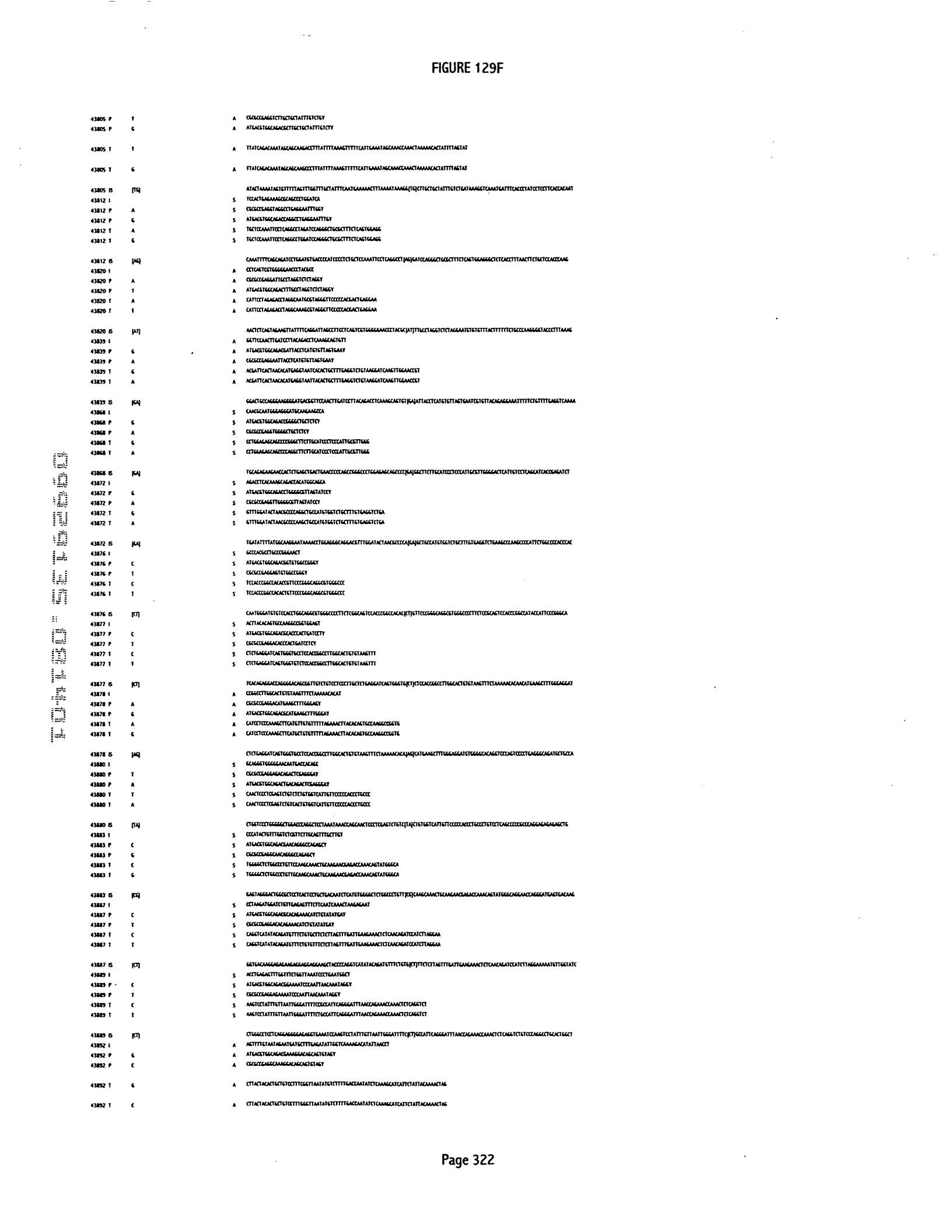
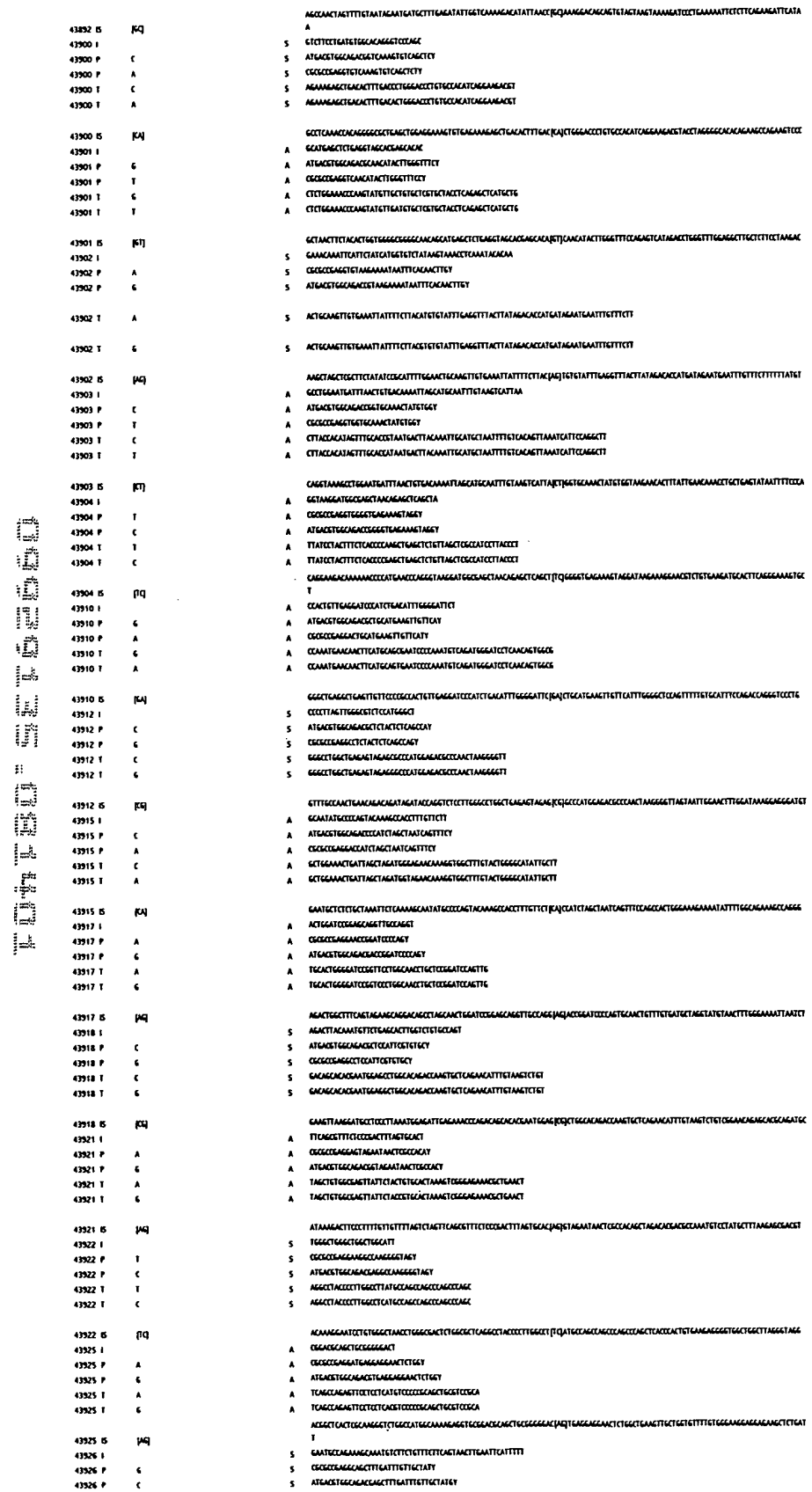


FIGURE 129F

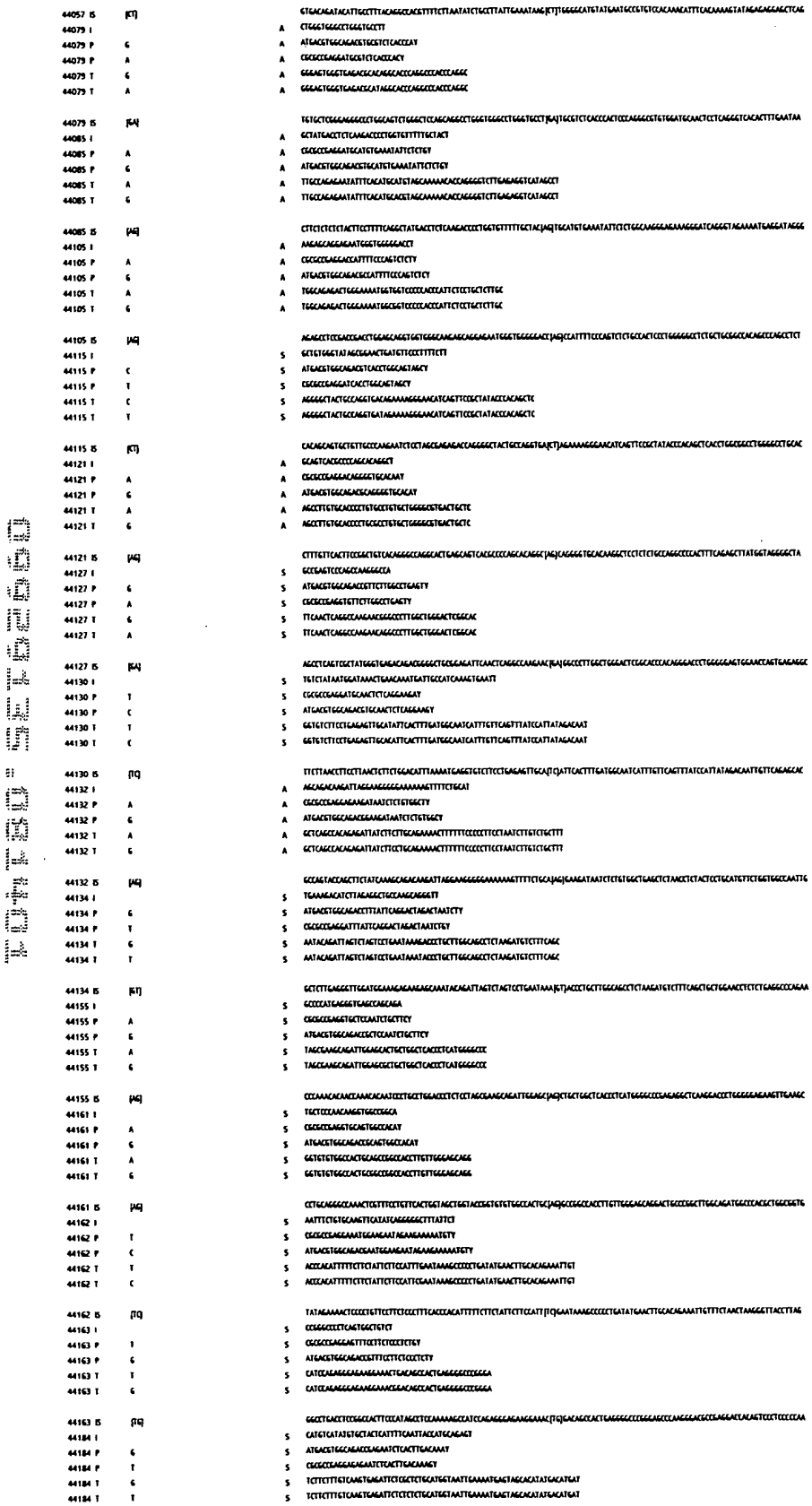
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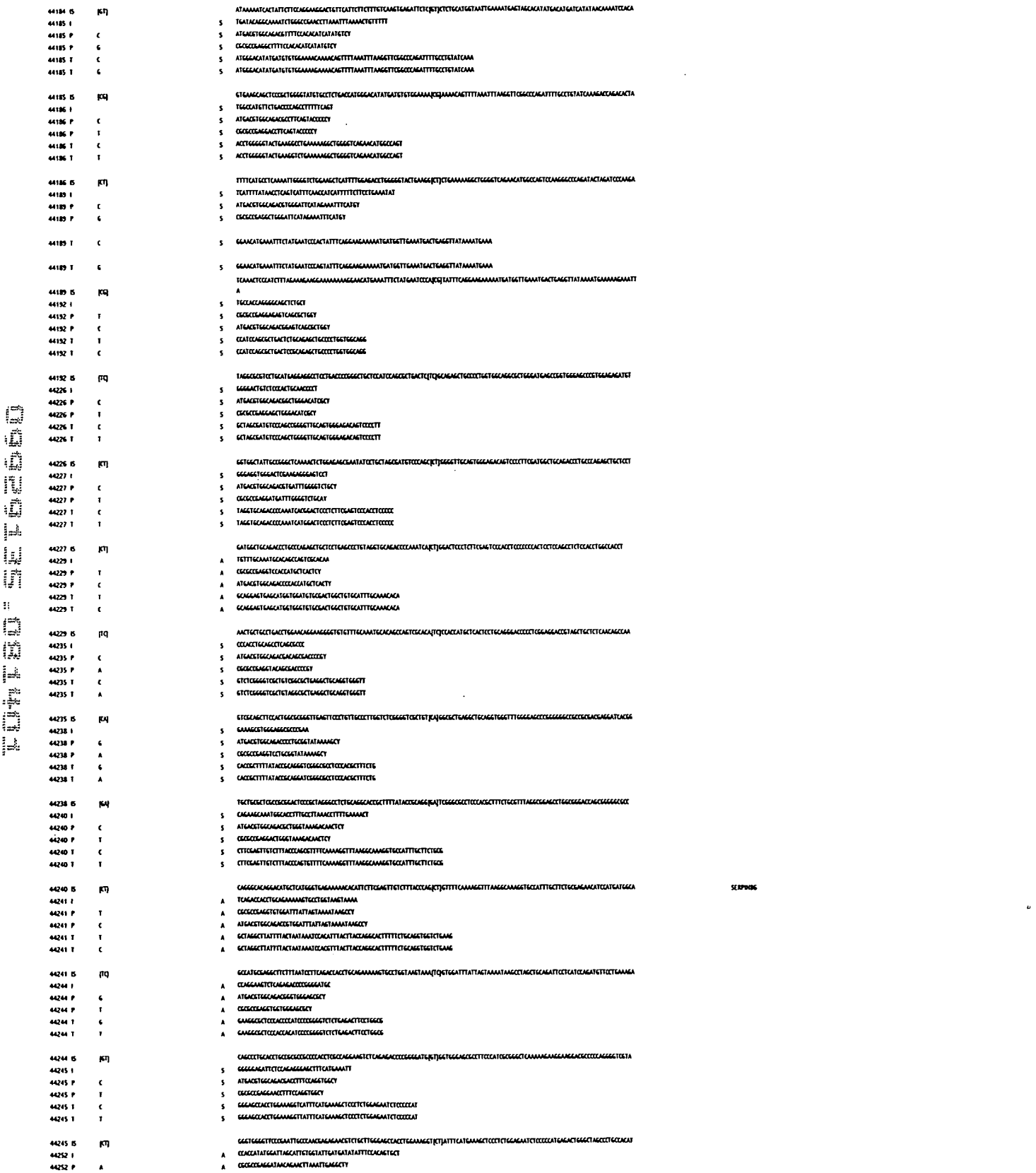


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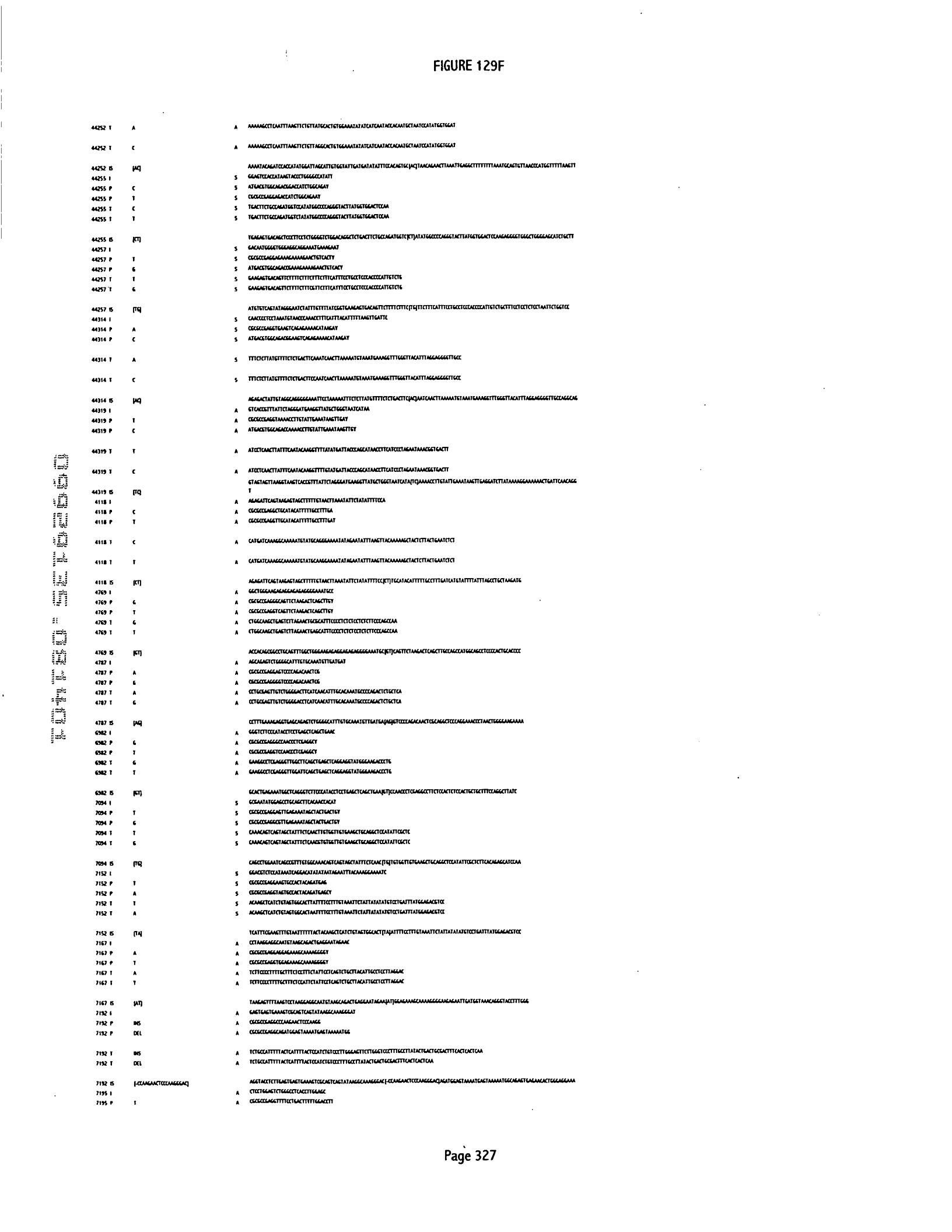
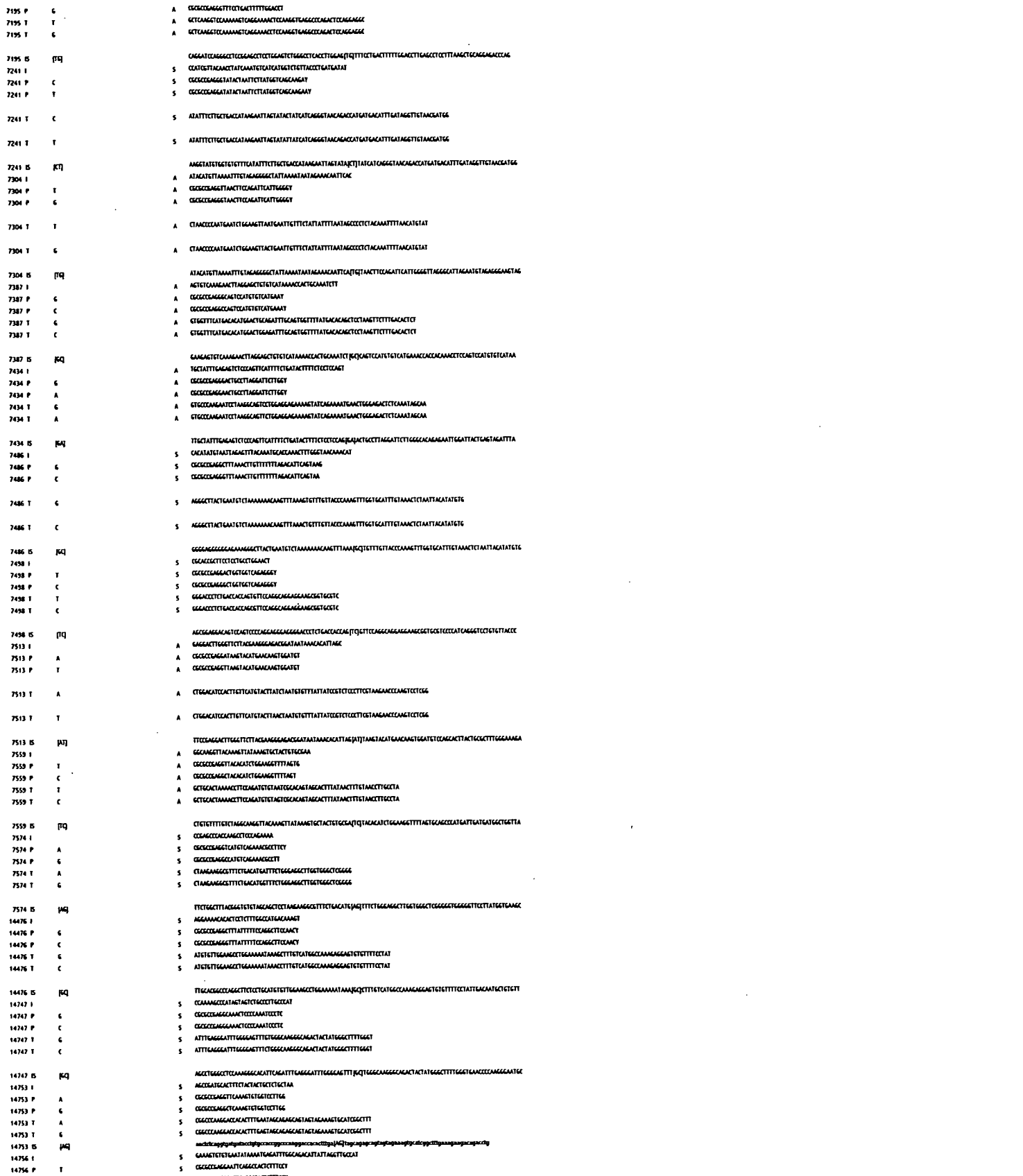


FIGURE 129F



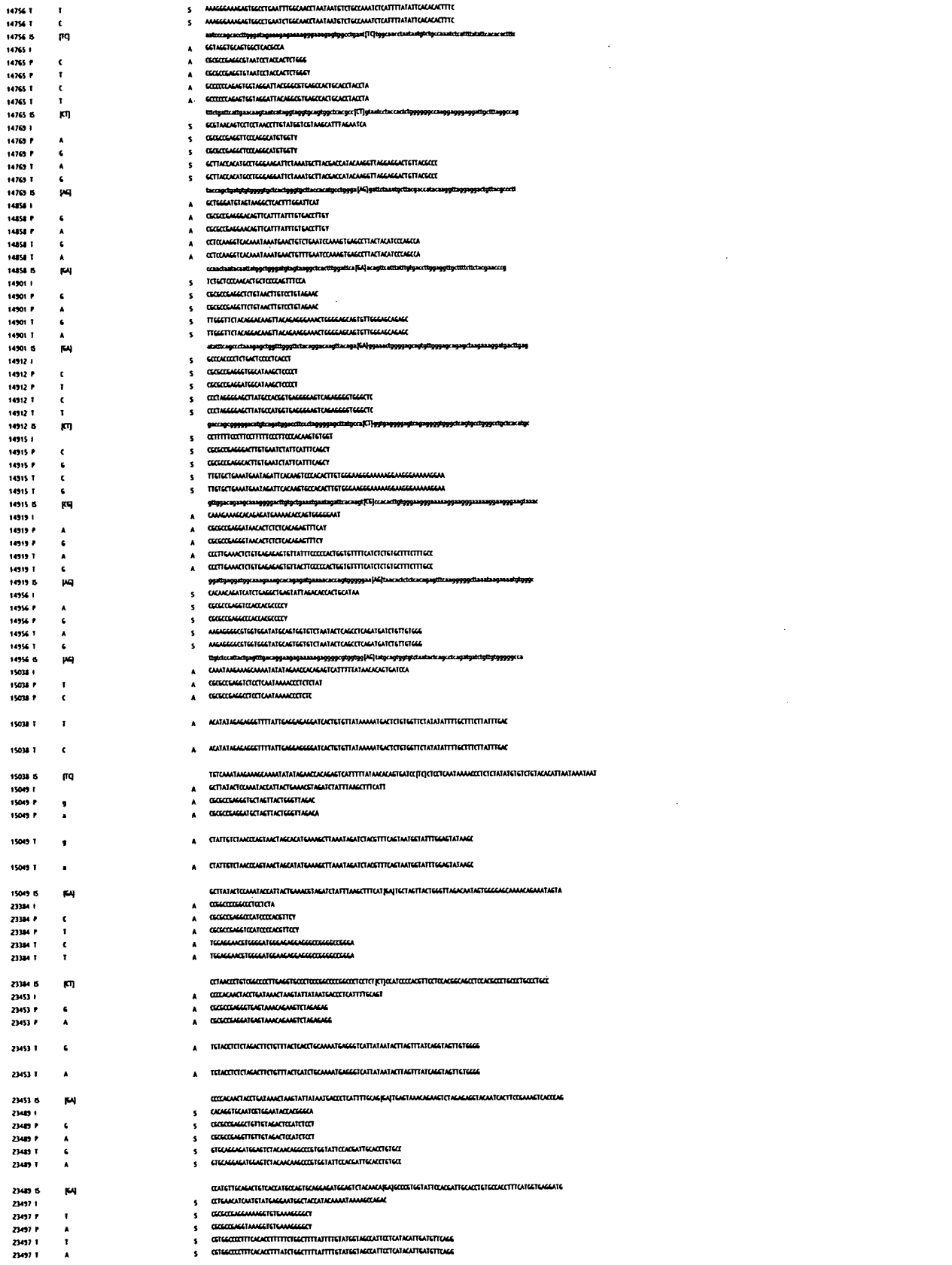
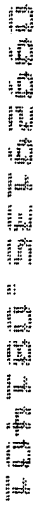
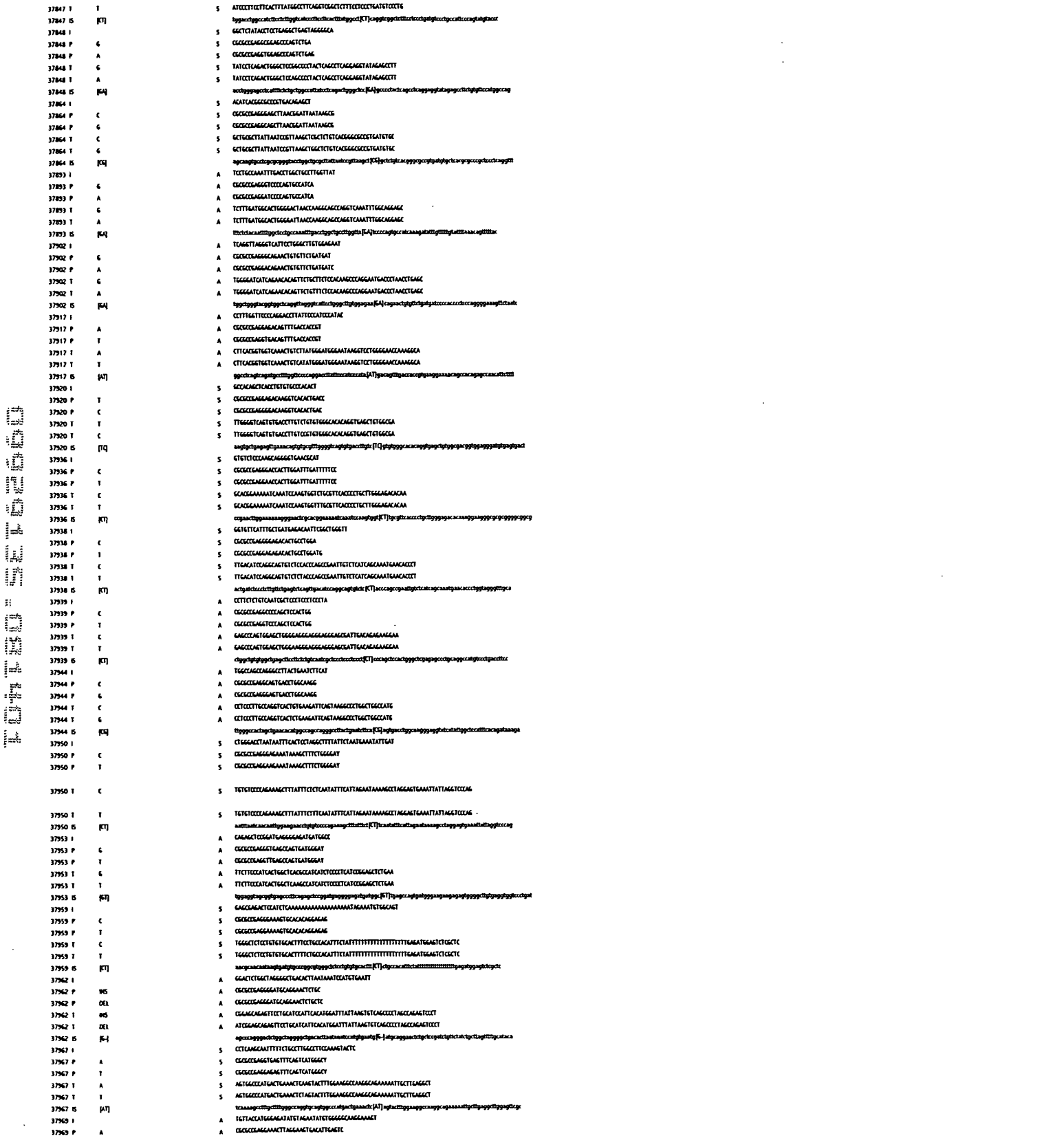


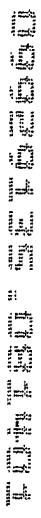
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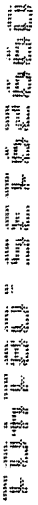


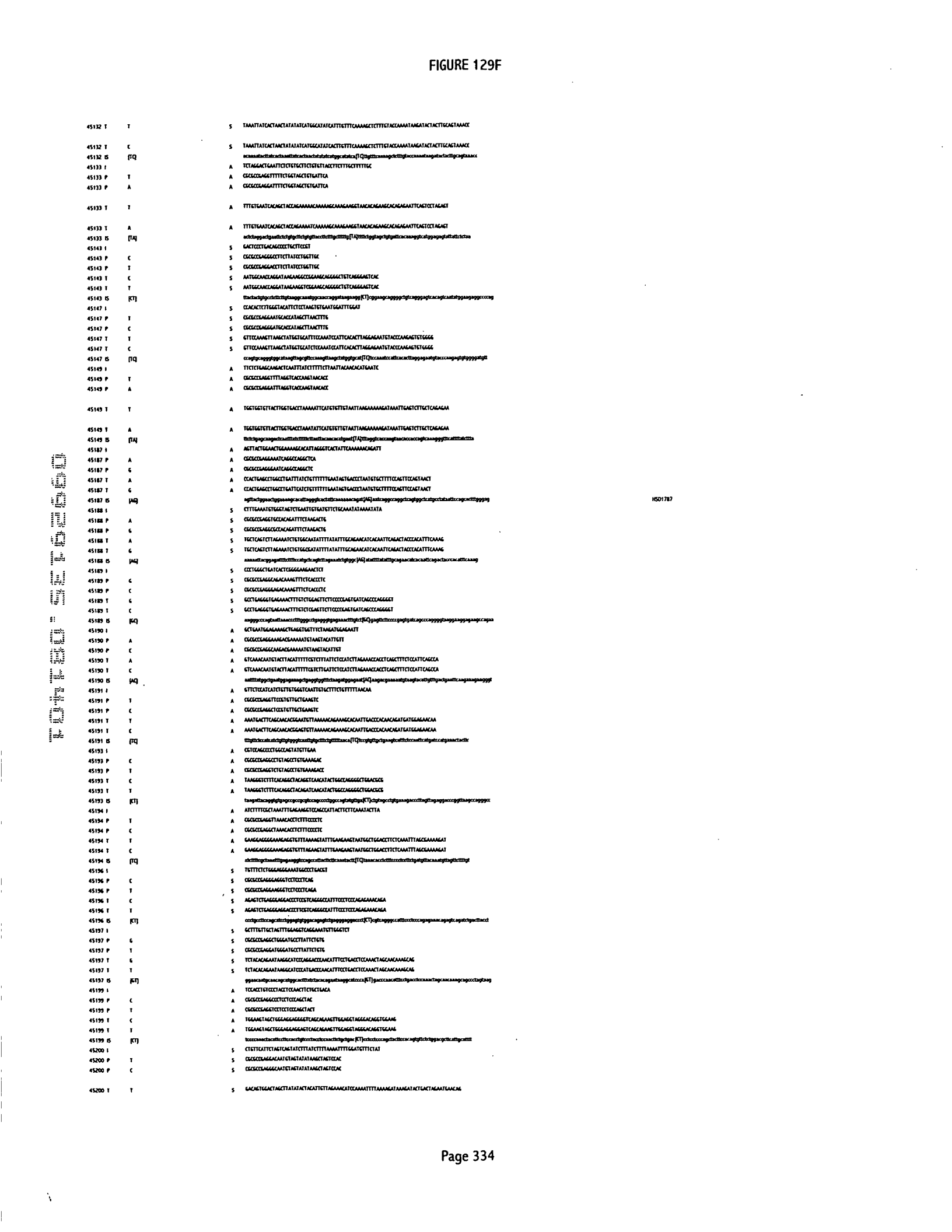


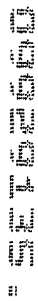












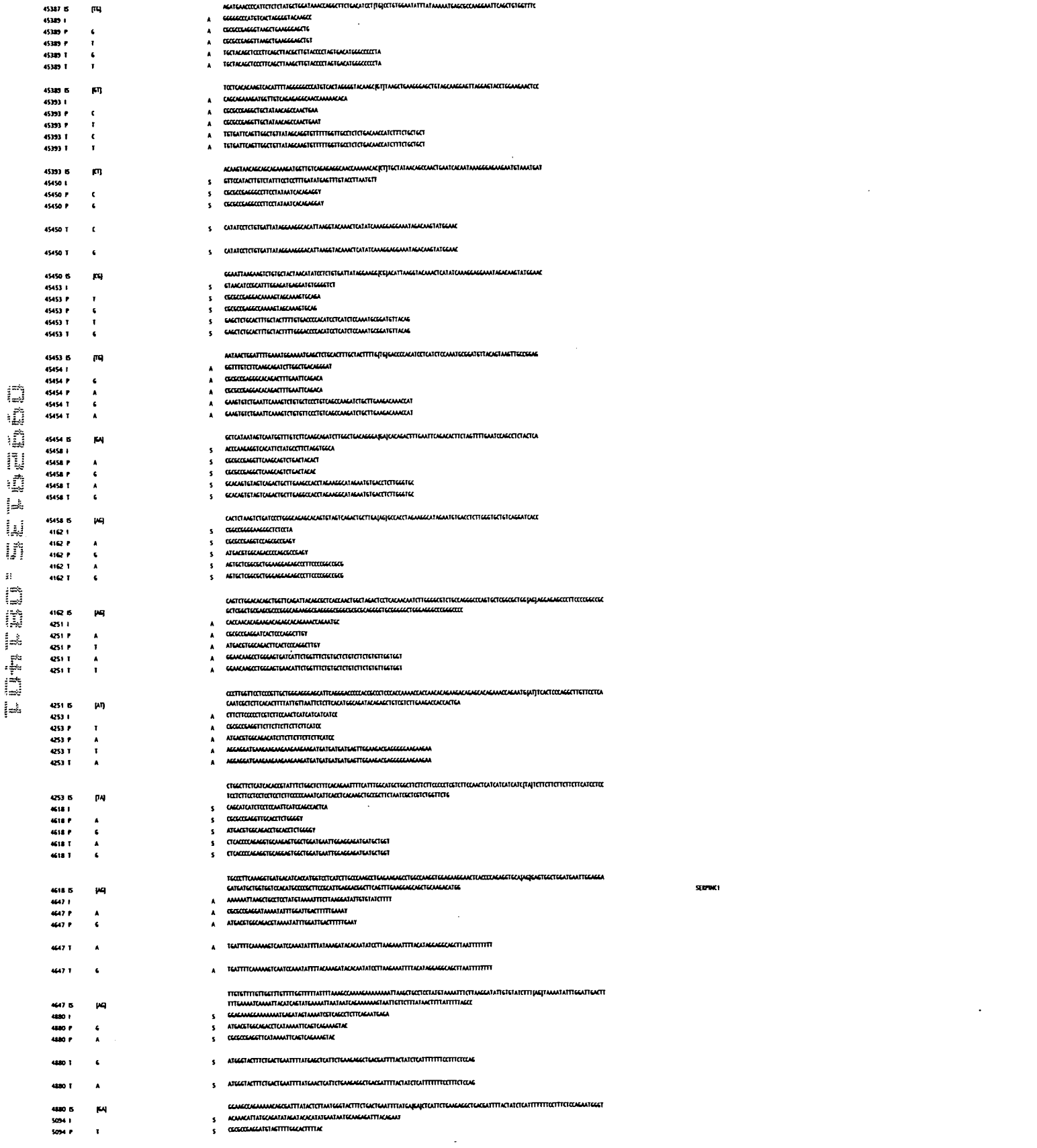
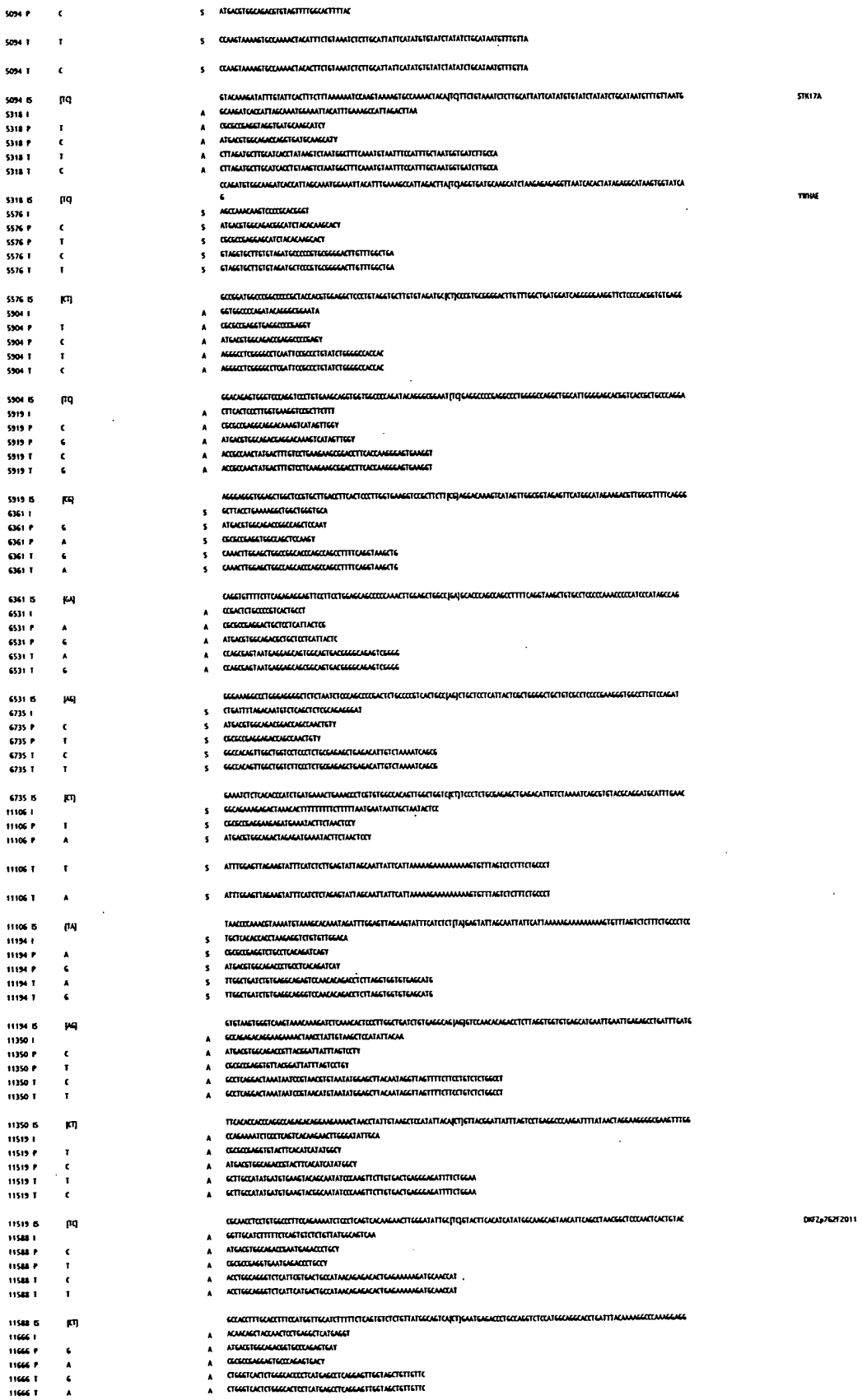


FIGURE 129F



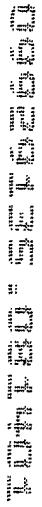


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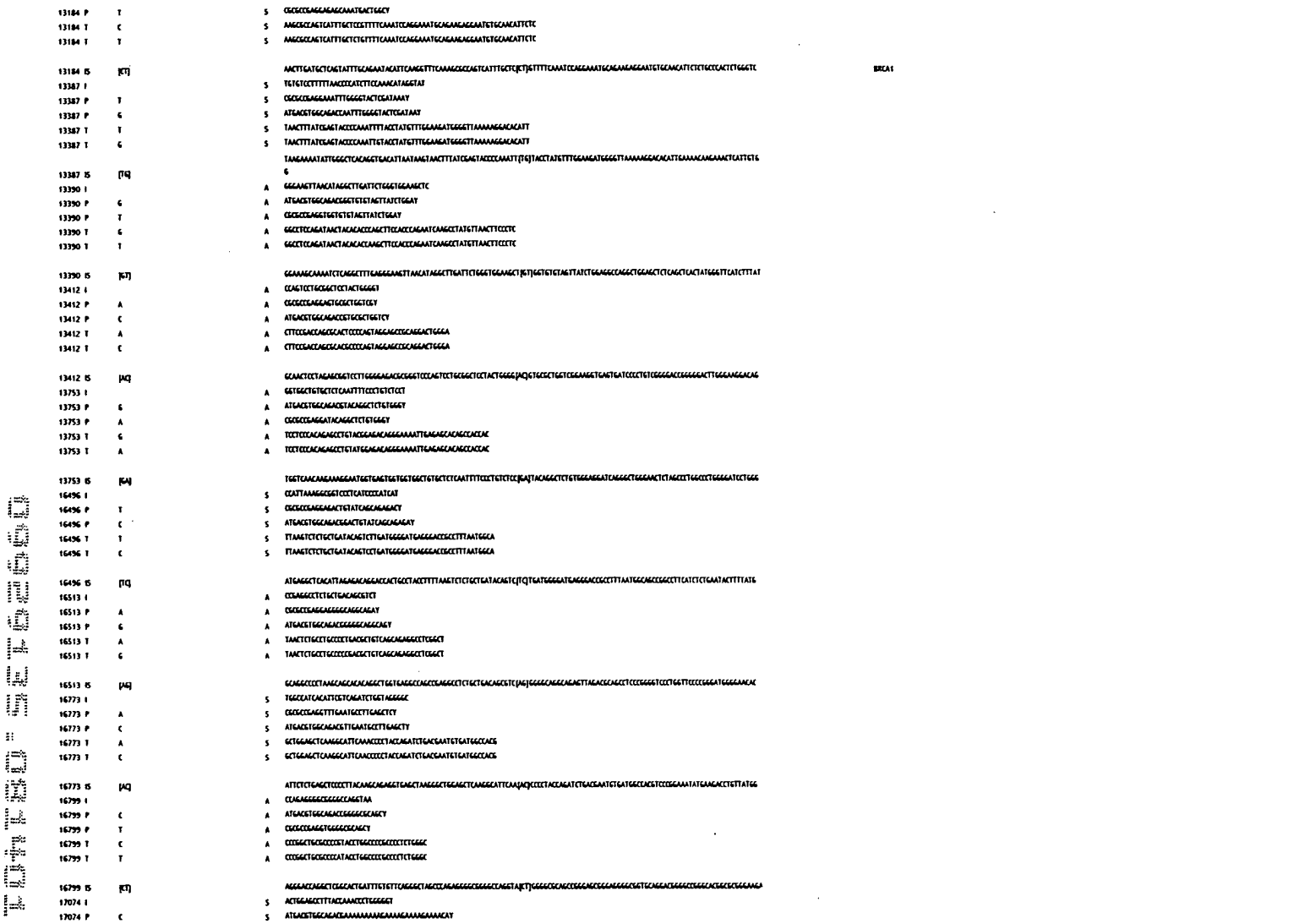


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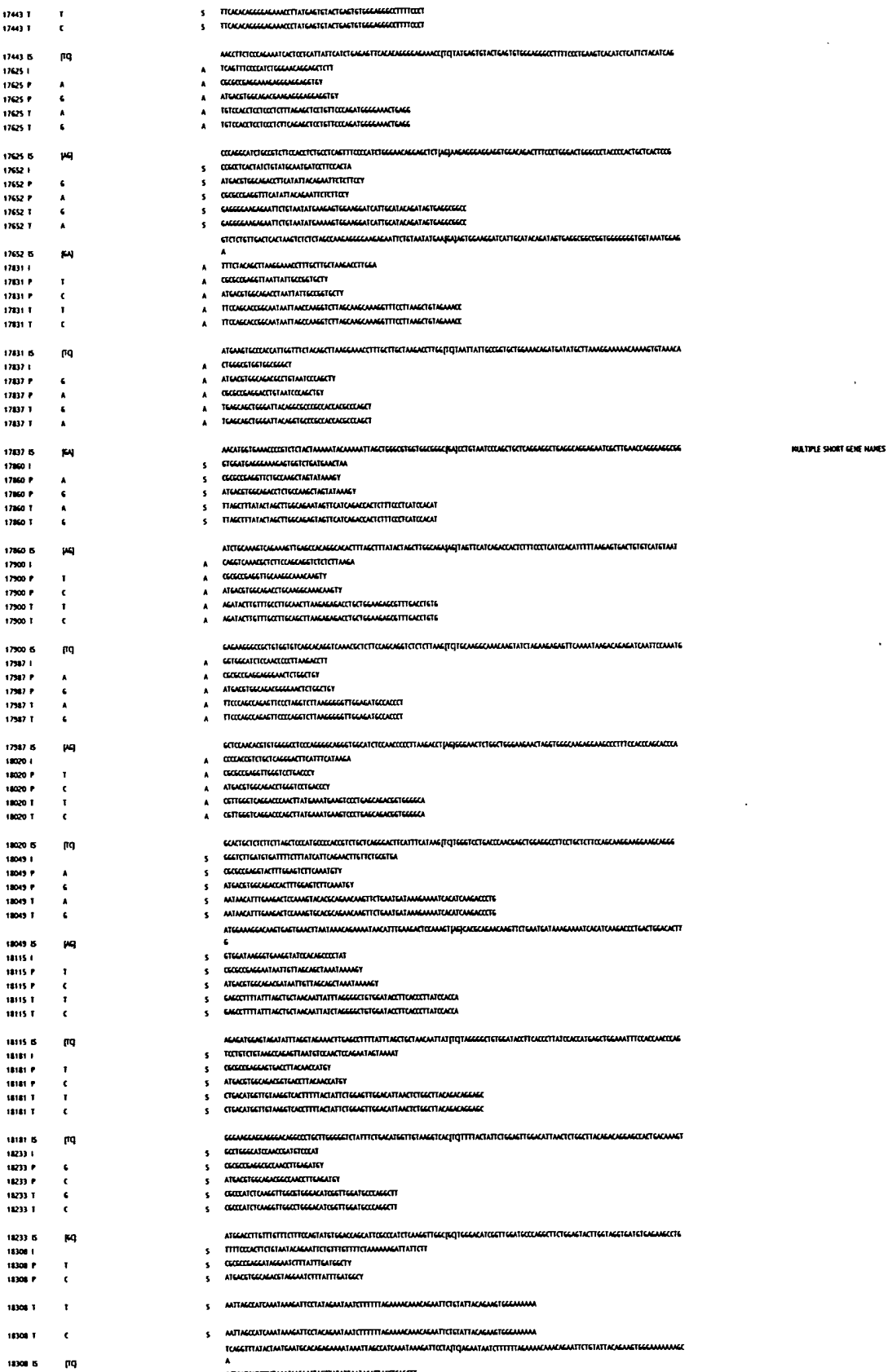


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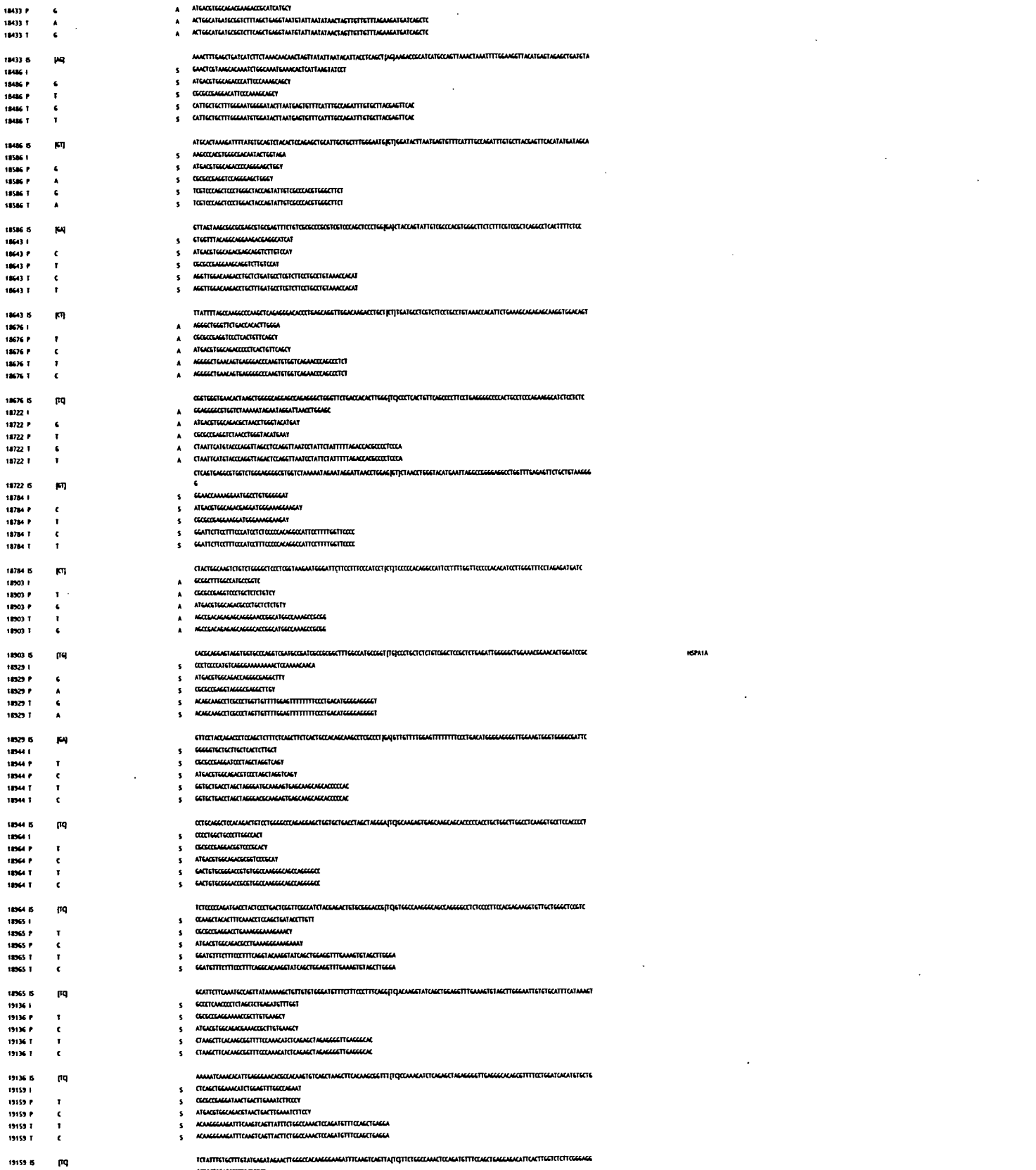


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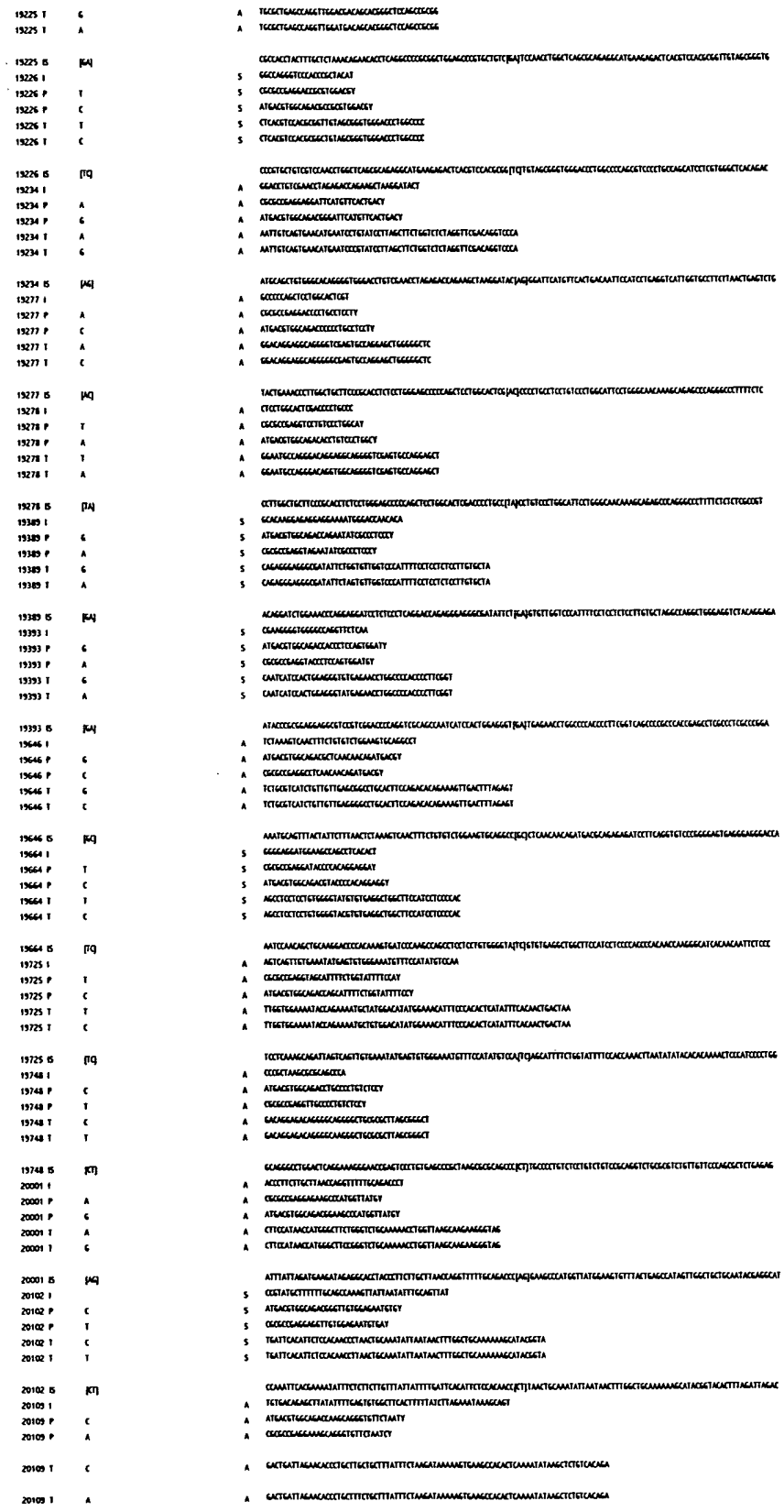
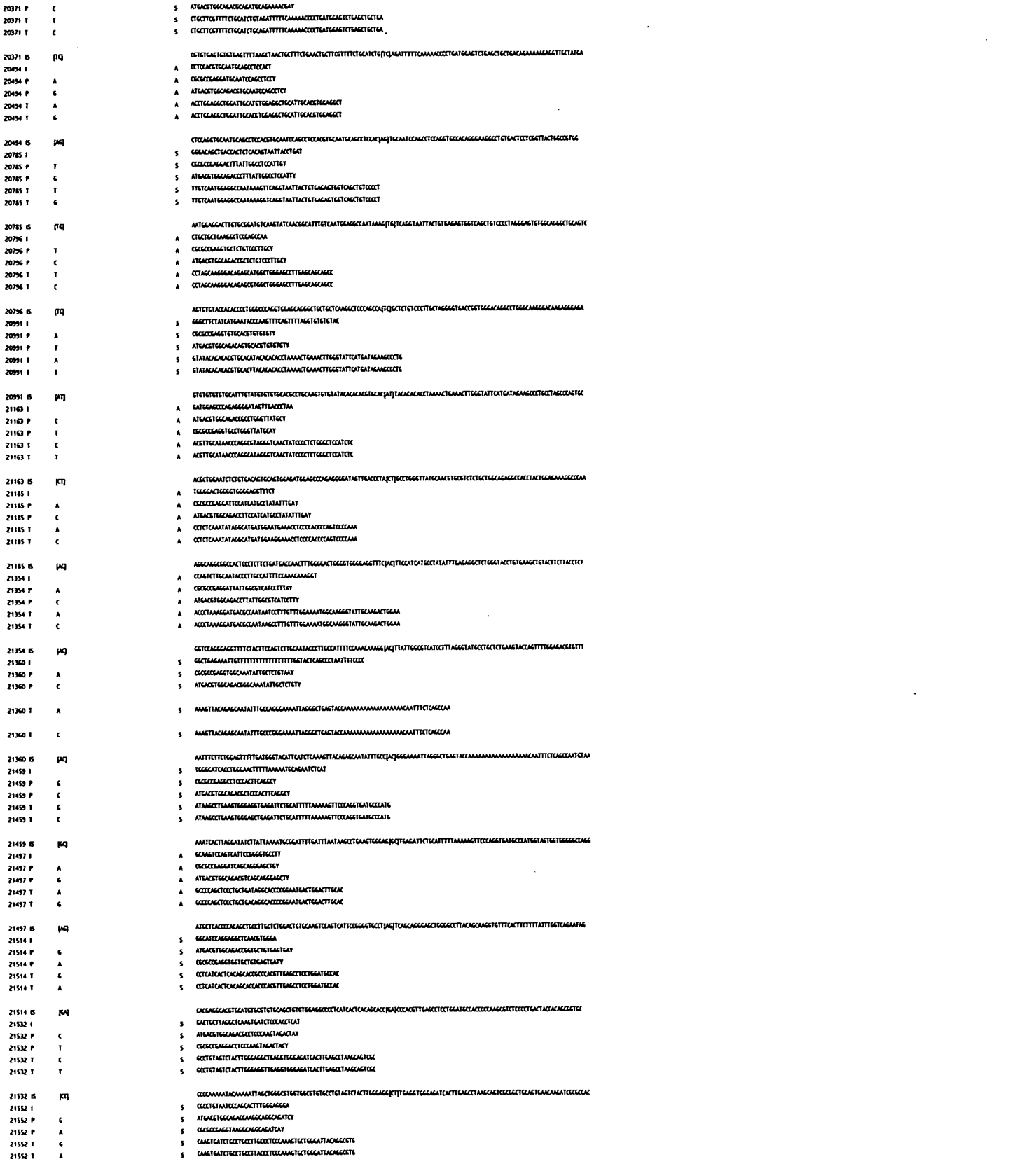
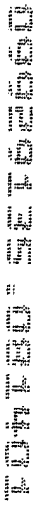
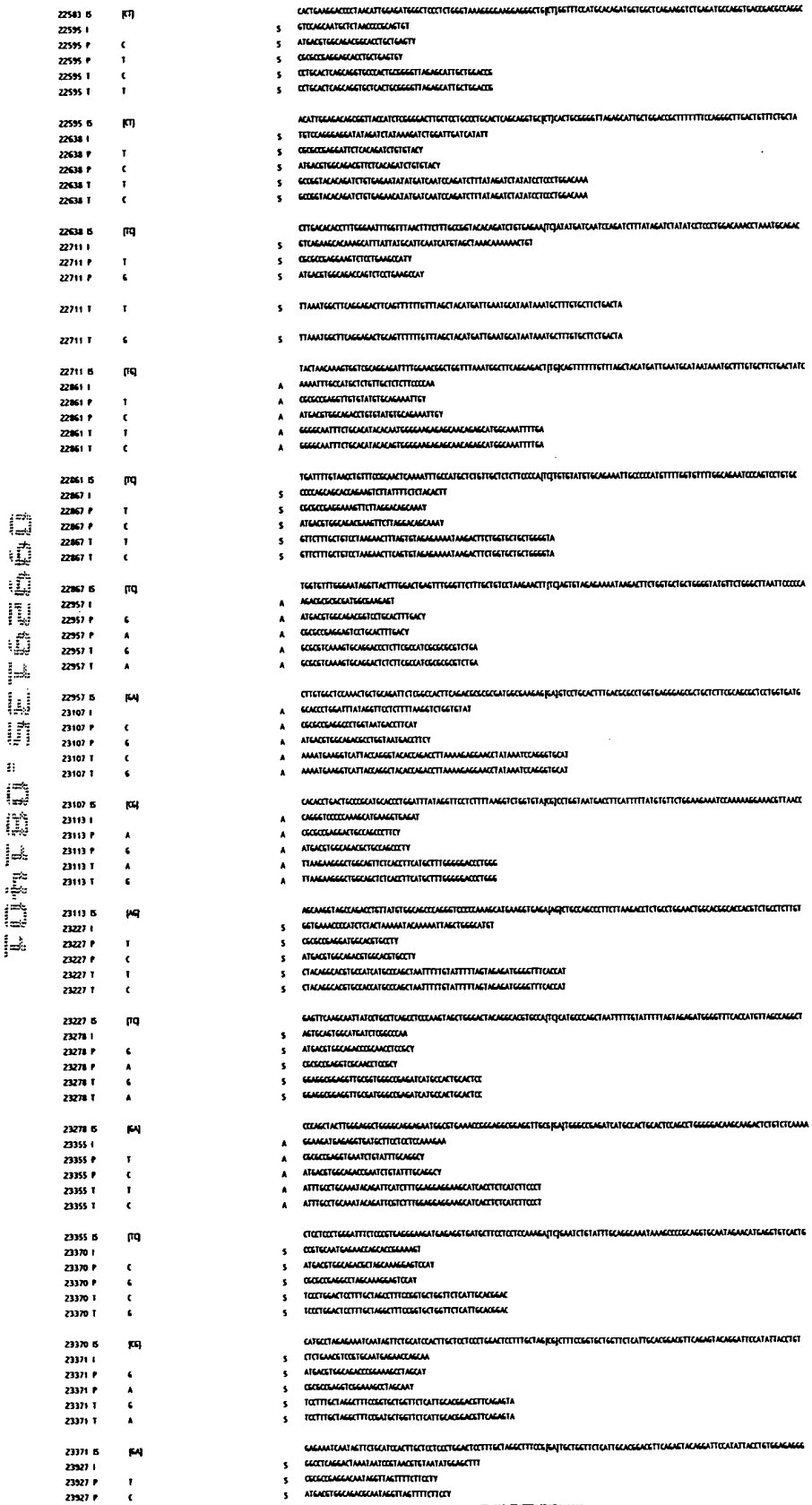


FIGURE 129F

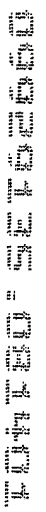


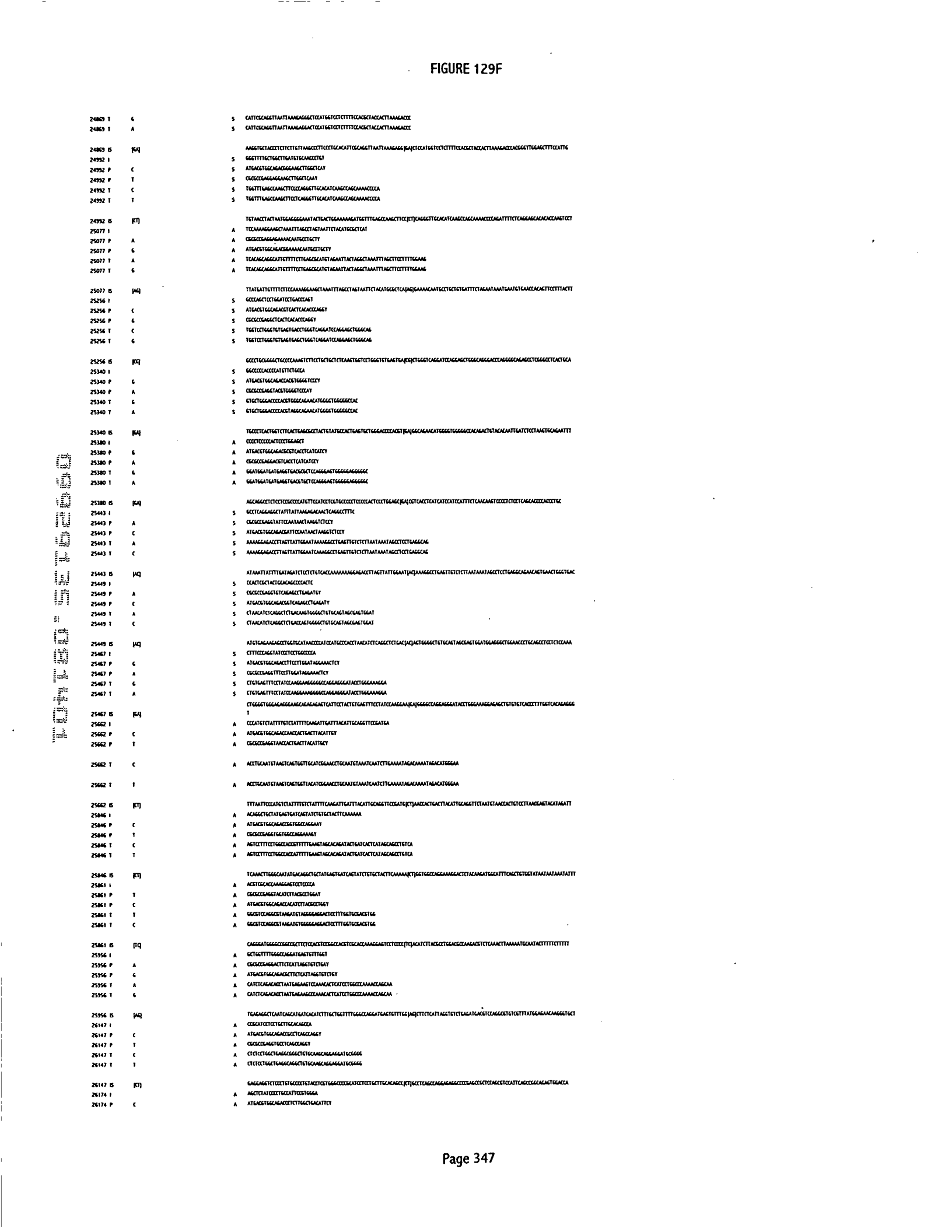


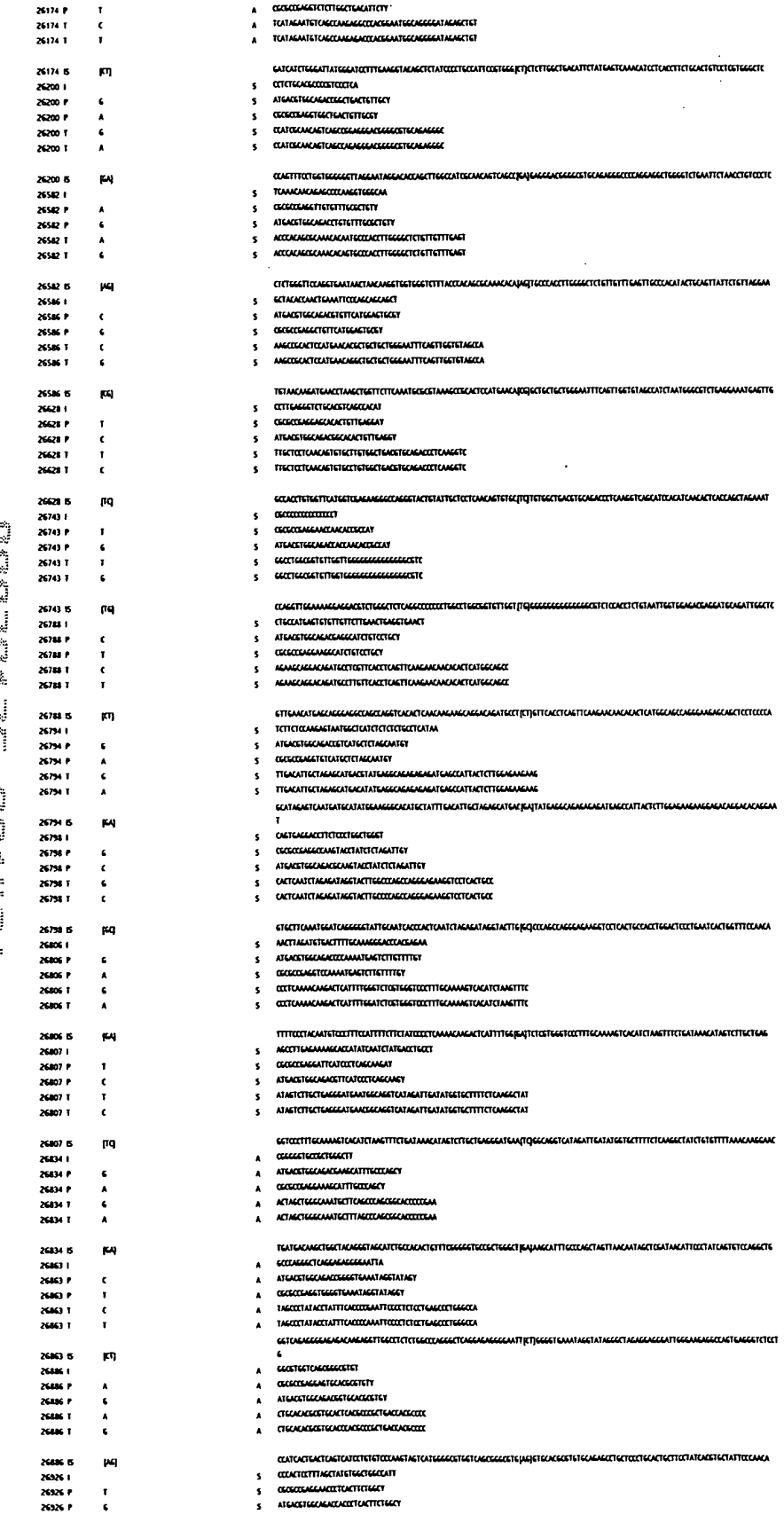












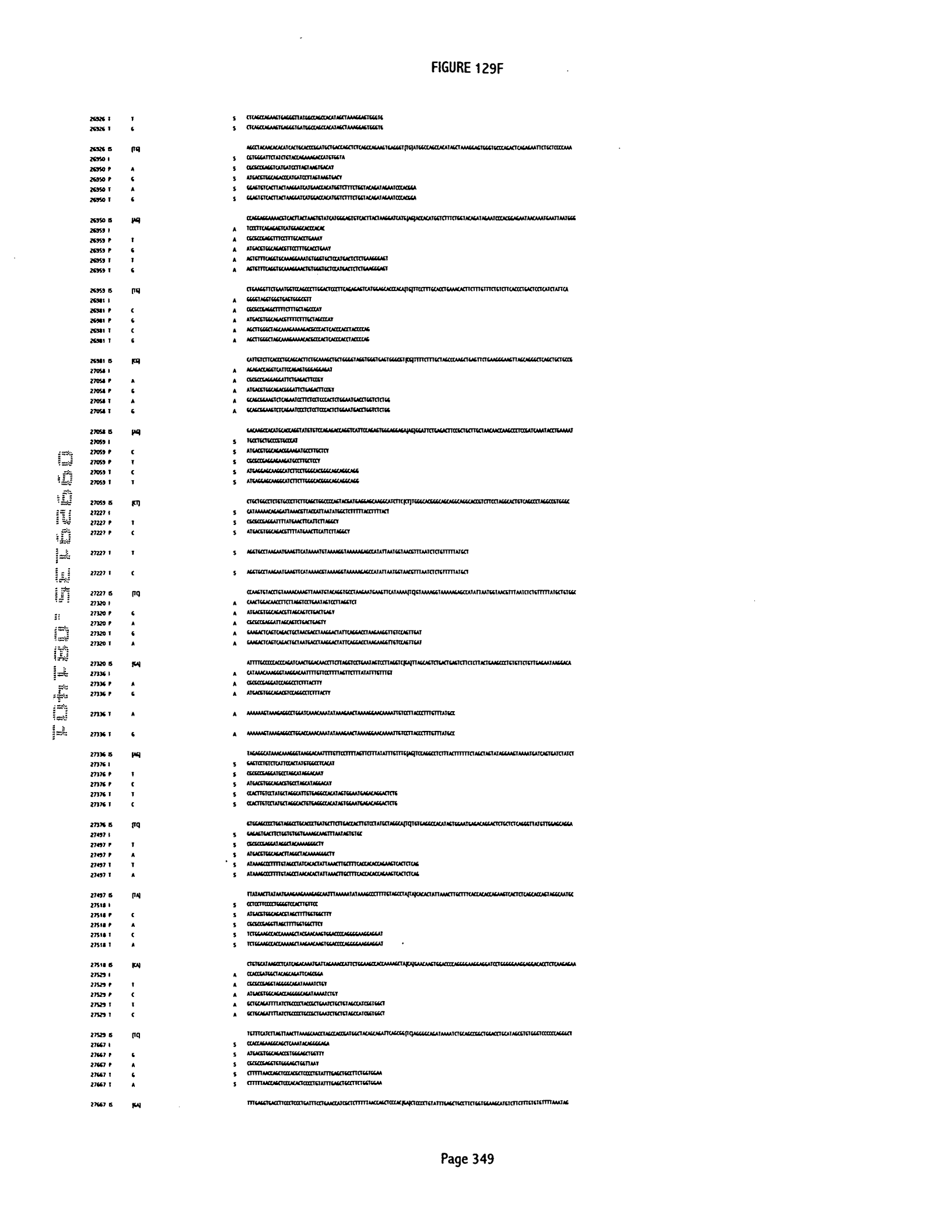
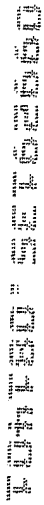


FIGURE 129F



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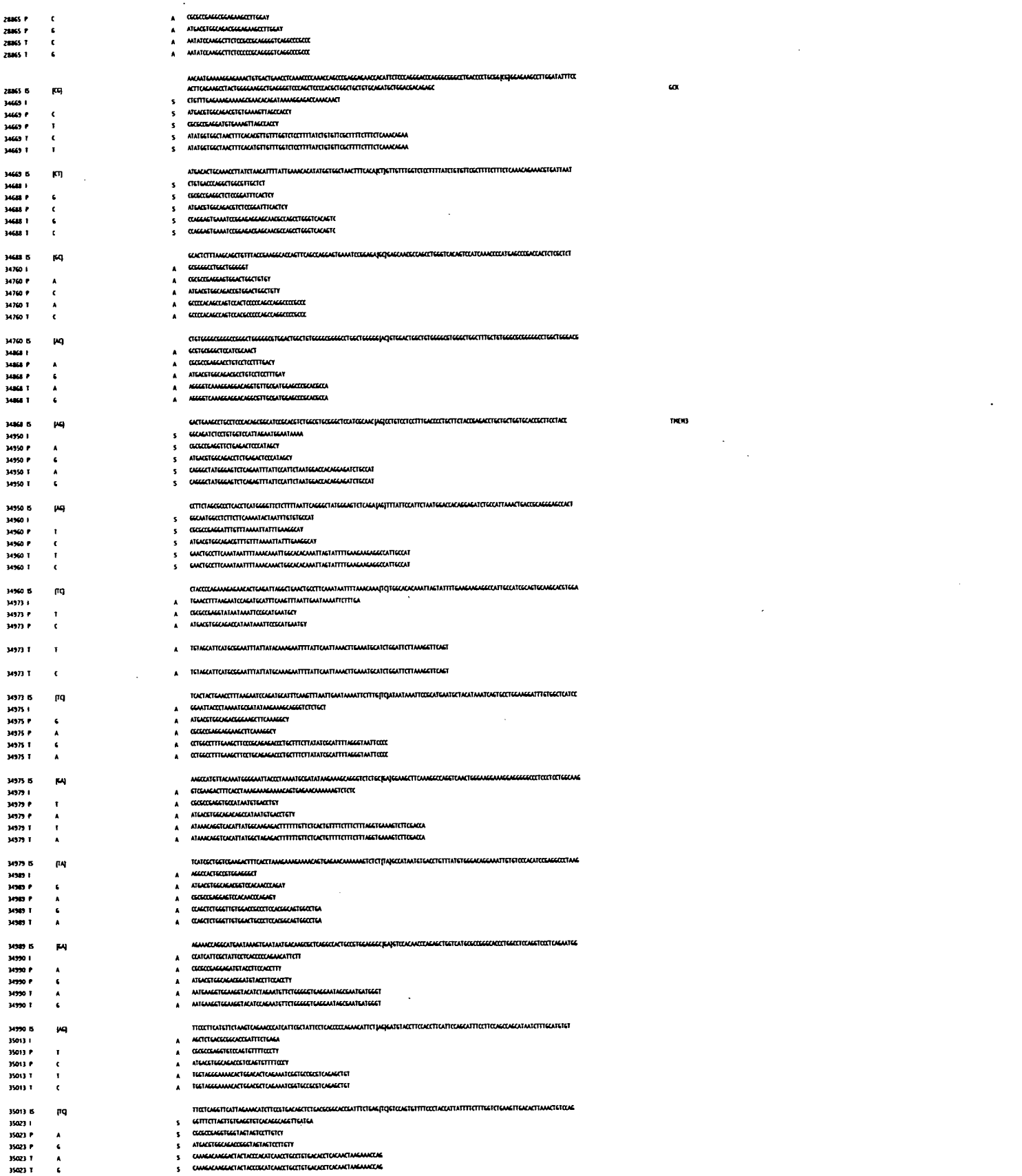
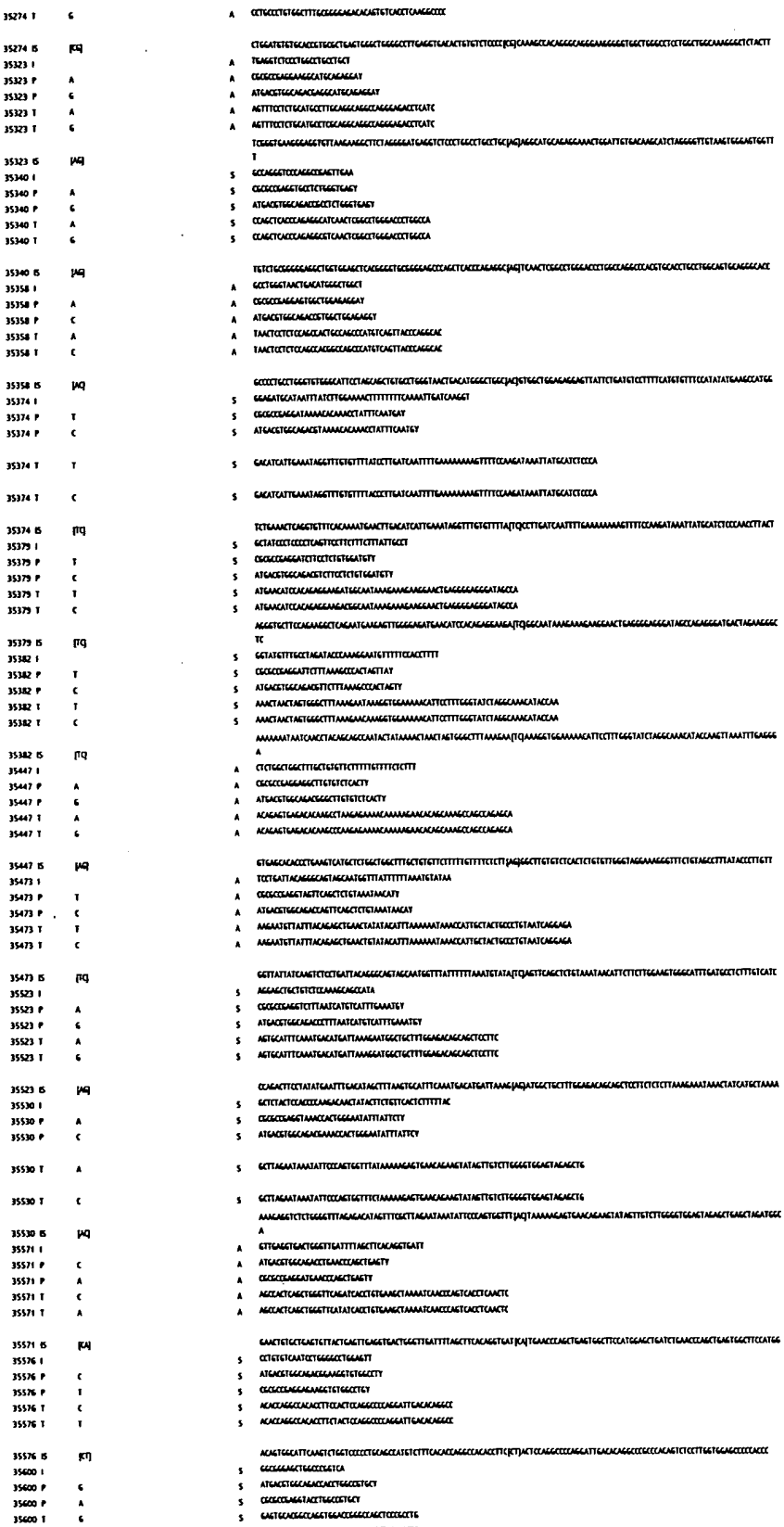
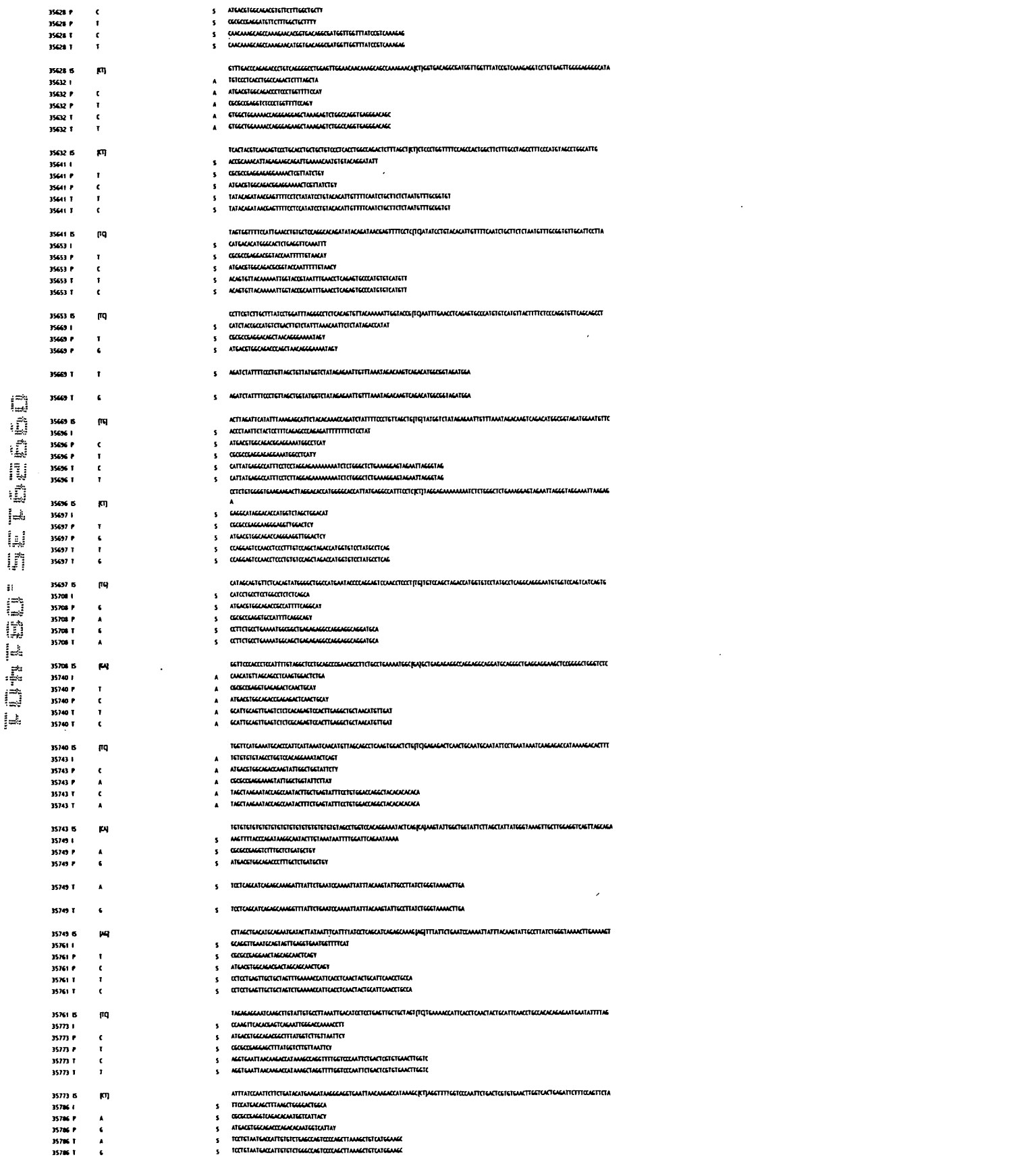


FIGURE 129F







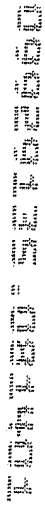
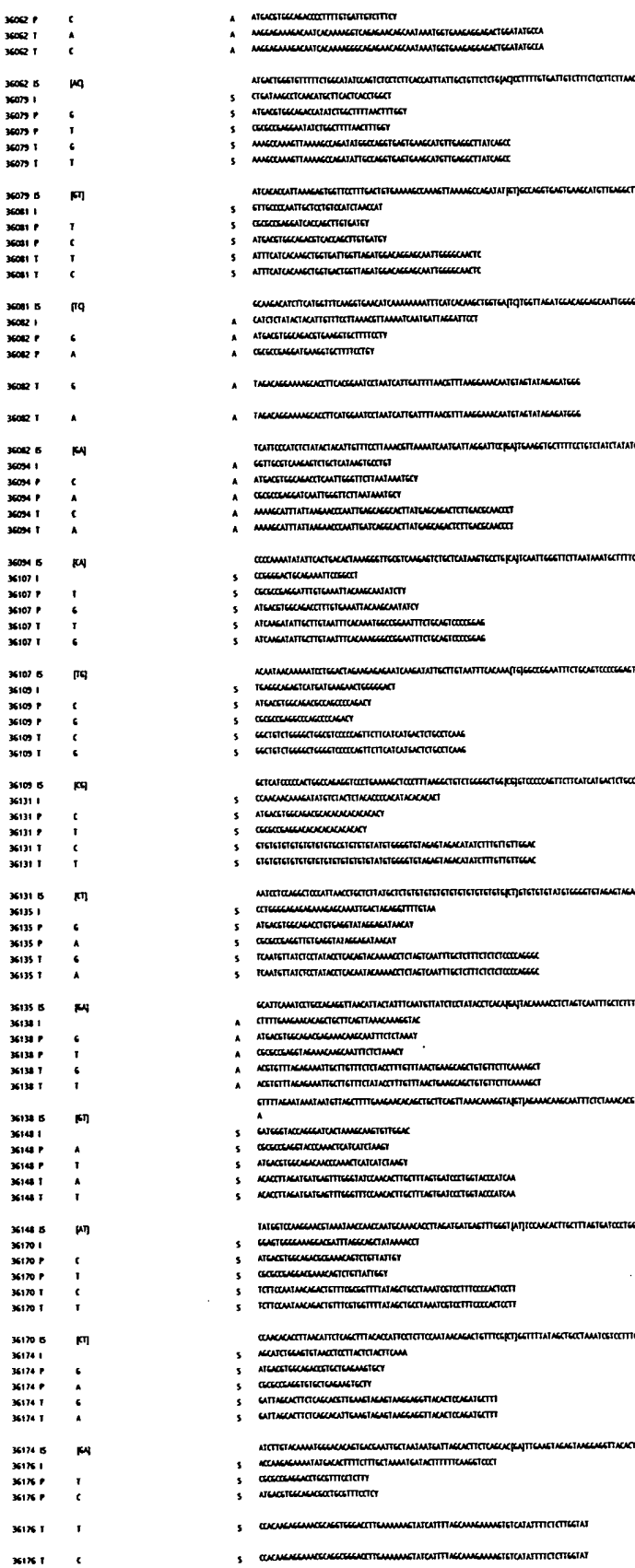


FIGURE 129F



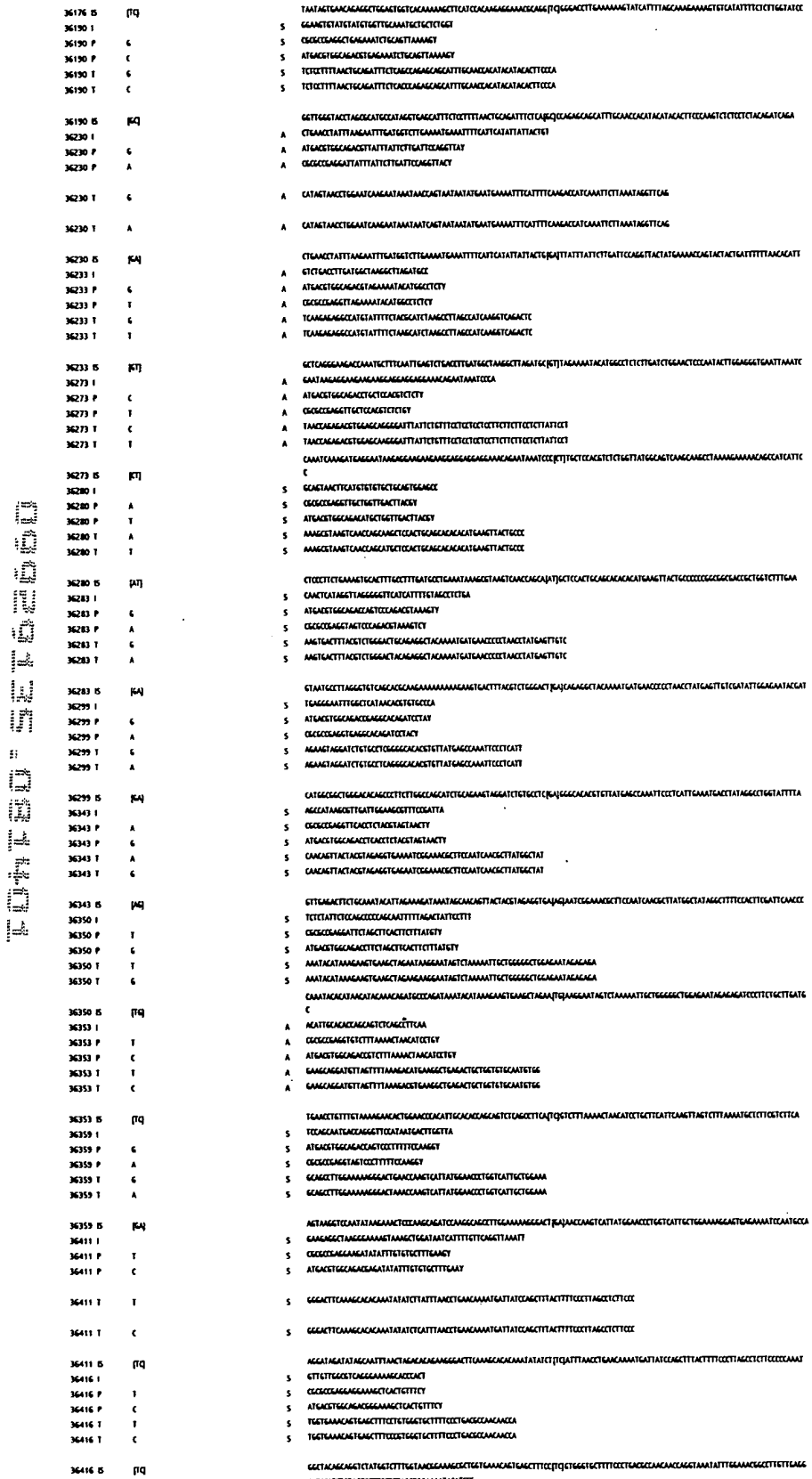


FIGURE 129F

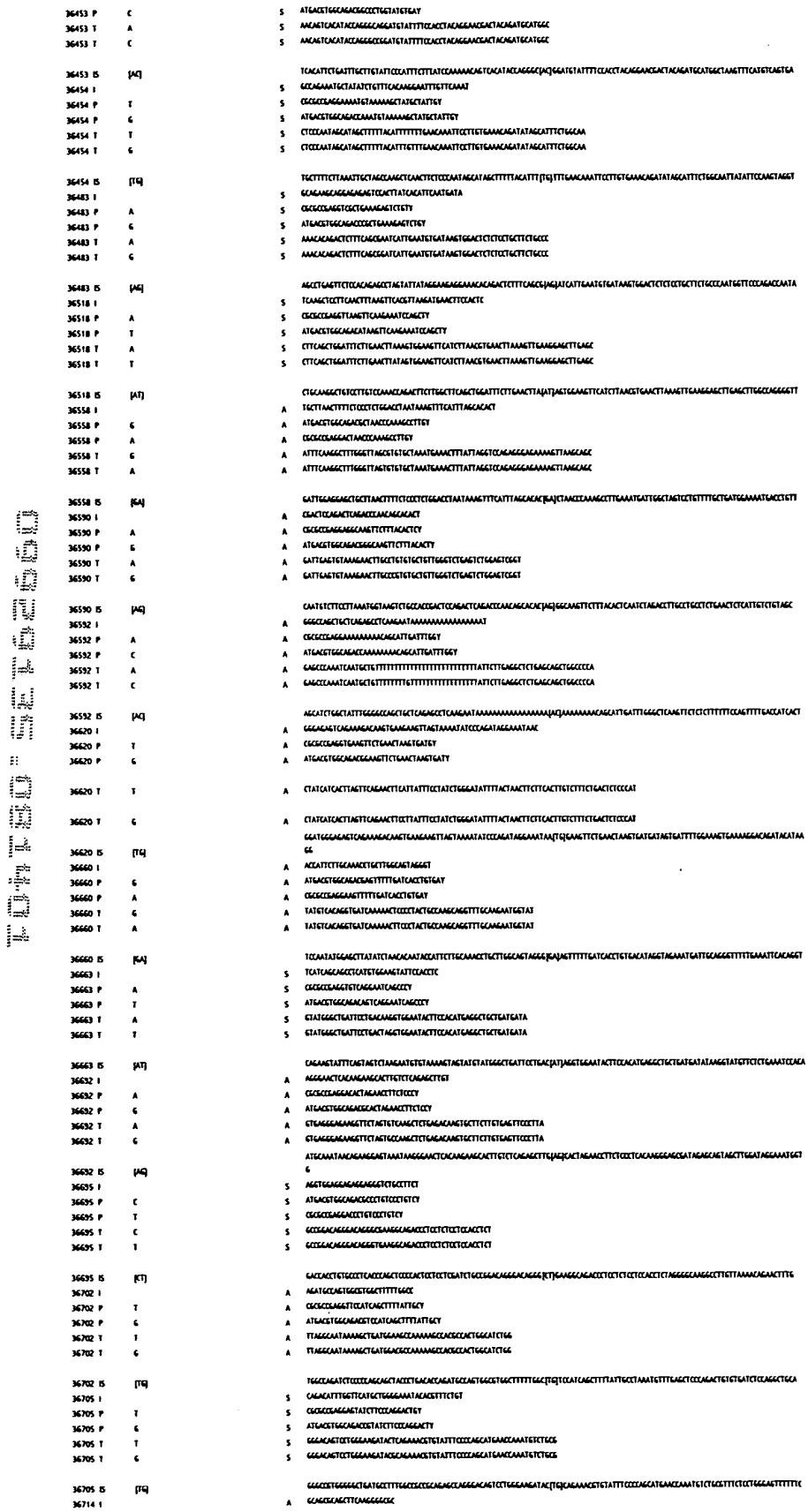
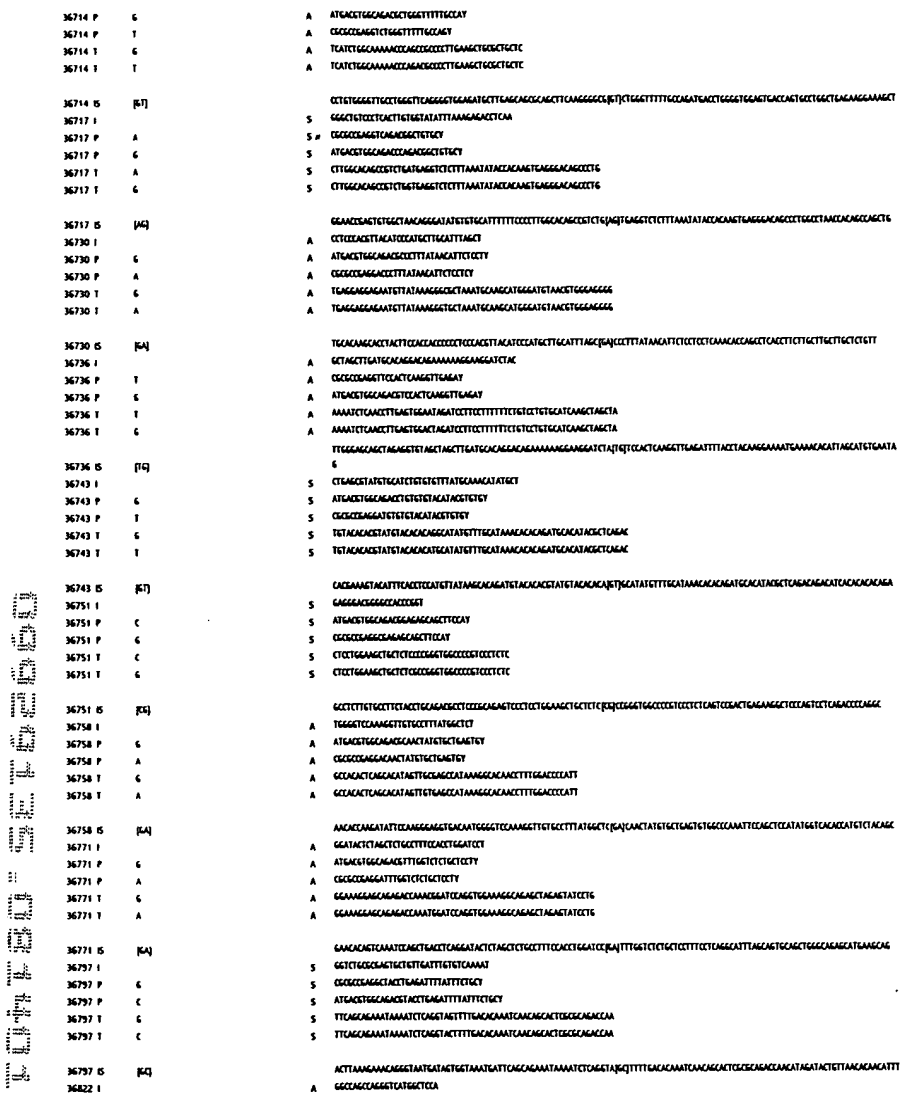


FIGURE 129F



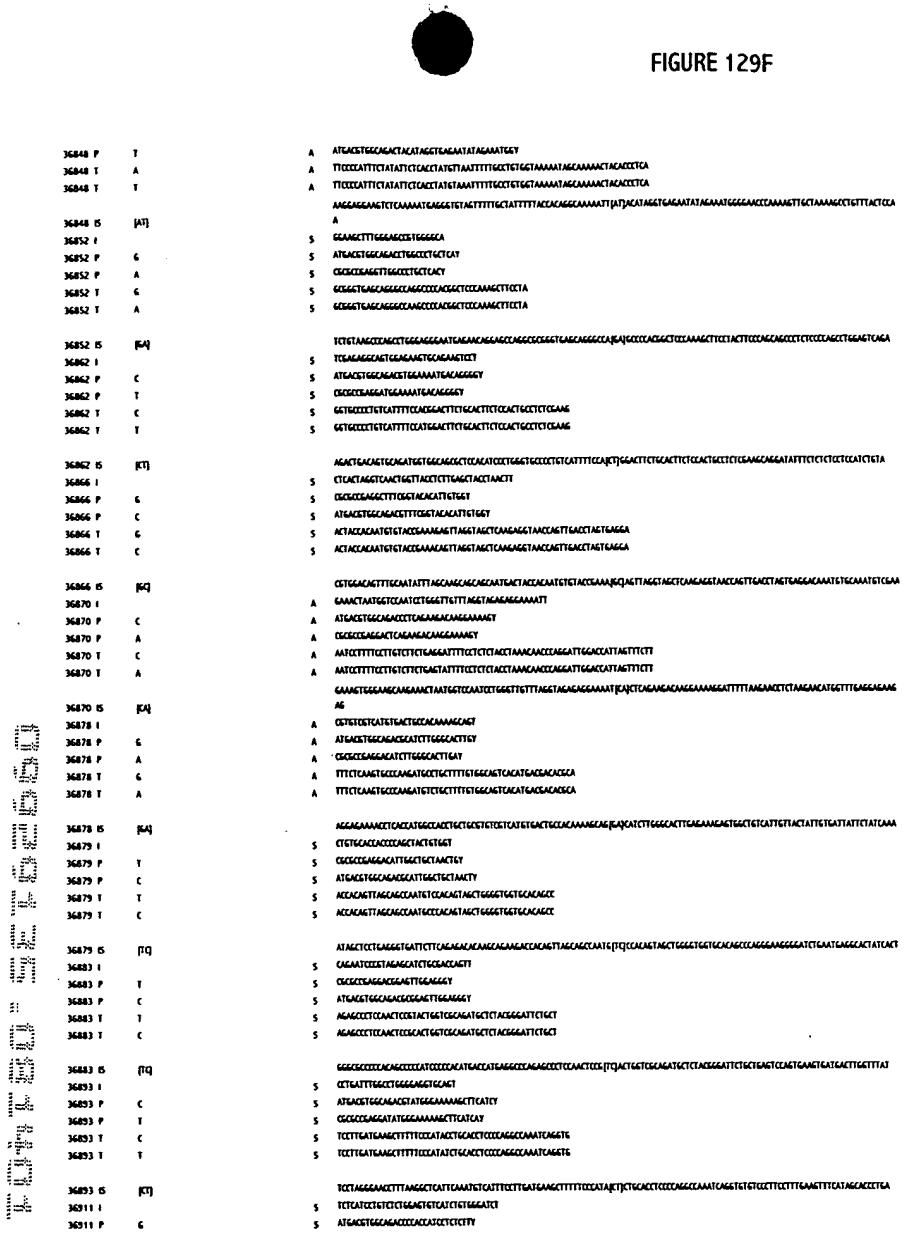
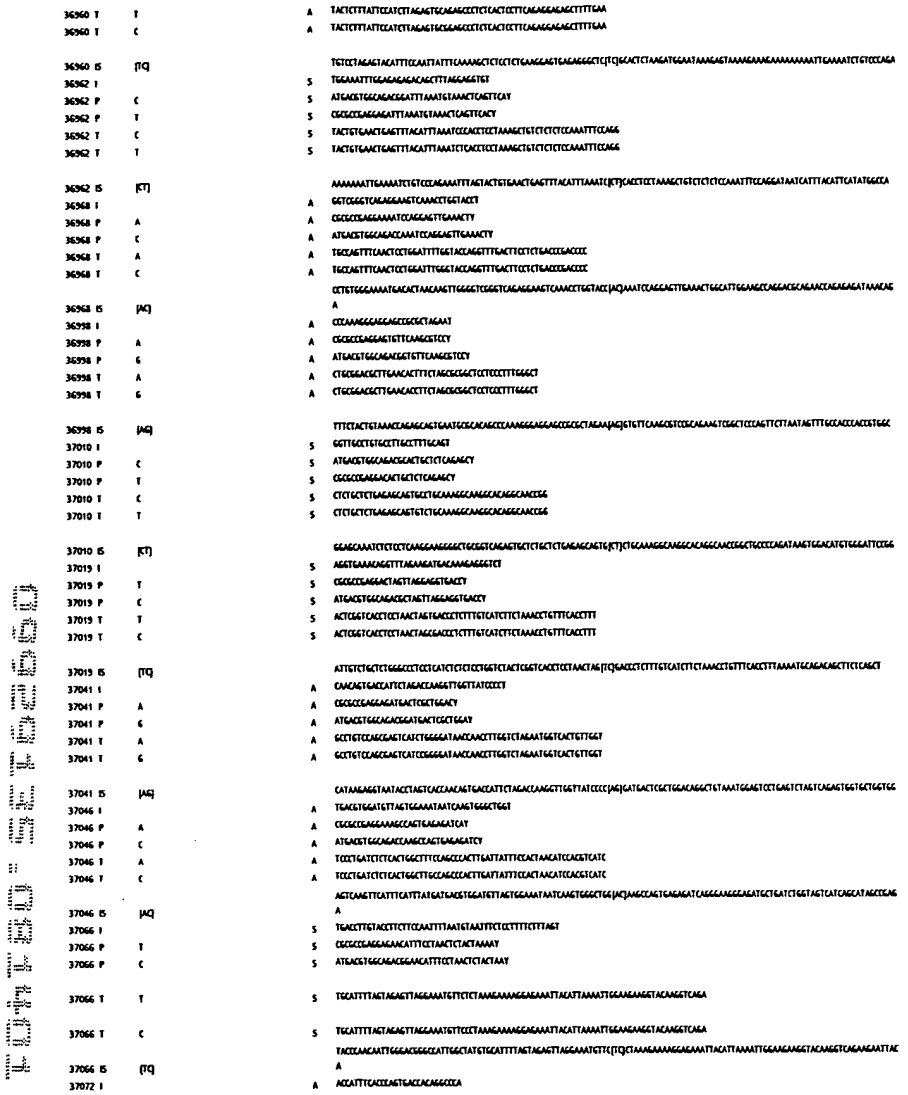
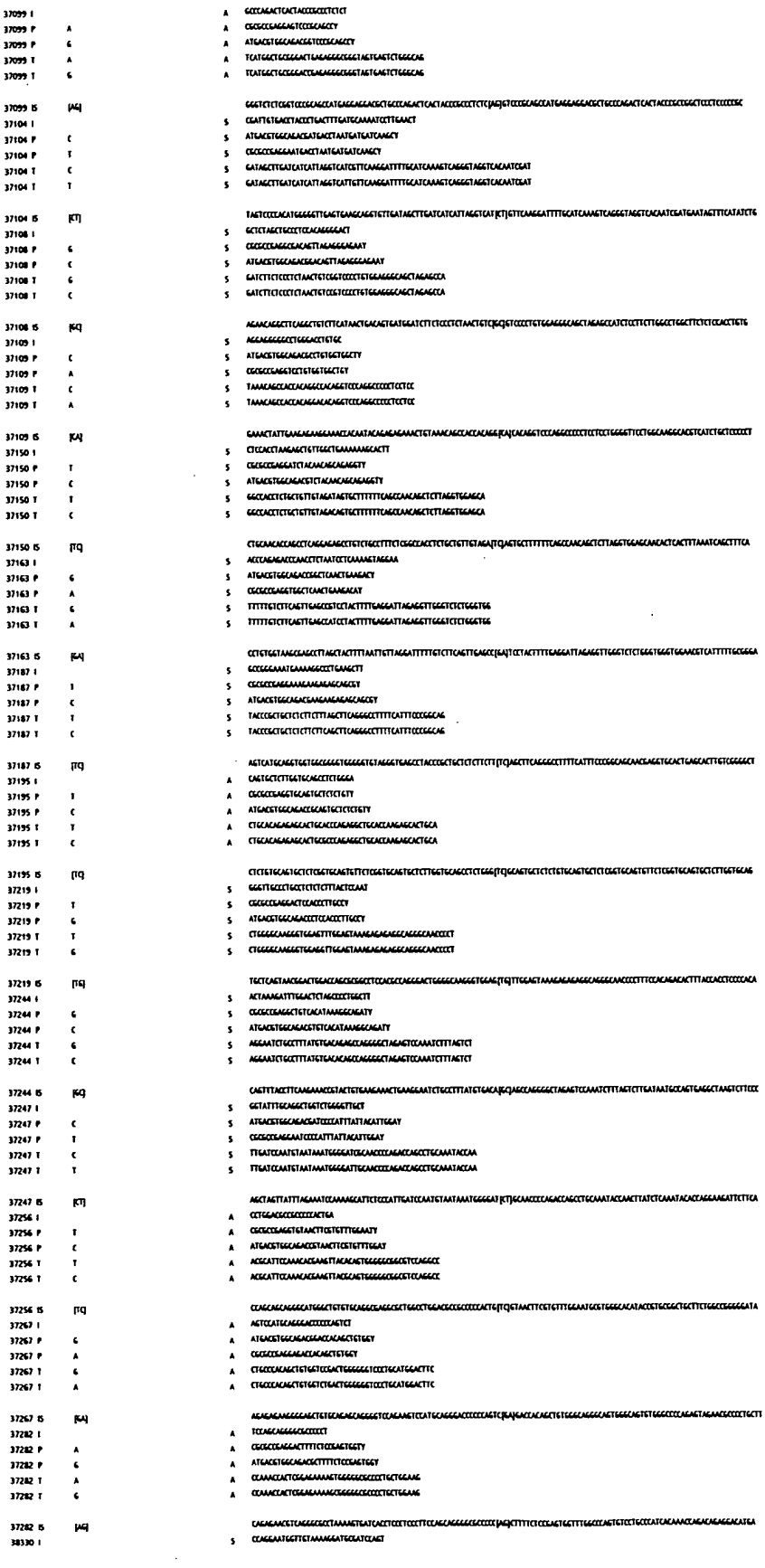
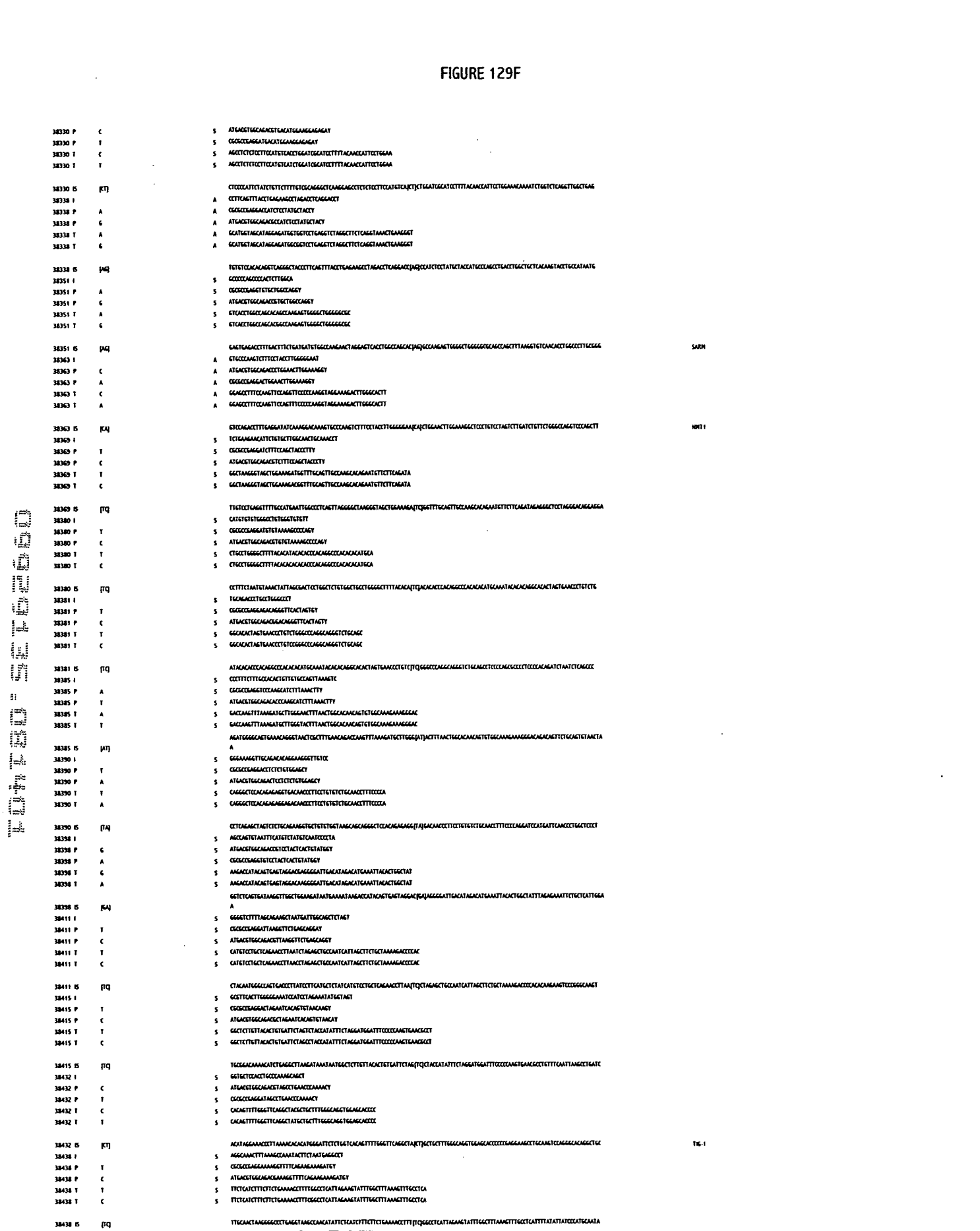
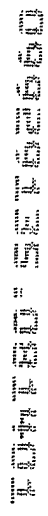


FIGURE 129F











Docket No. 10020.0001.PCUS.00

Inventor: Hillman et al.

Title: Novel Human Proteases

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38606 P A A CGCGCCGAGGAGCTGAGGTTTTAAAATTGGAT
38606 P G A ATGACGTGGCAGACGGCTGAGGTTTTAAAATTGGY
38606 T A A TGTCTCCAATTTTAAAACCTCAGCTTGTGGCTCCTGAGAGACAGGAGACTGGGAG
38606 T G A TGTCTCCAATTTTAAAACCTCAGCCTGTGGCTCCTGAGAGACAGGAGACTGGGAG

38606 IS (AG) TTAGCTAGGTTTGGTGTCTGTACCATCGTTCTCCCAGTCTCCTGTCTCTCAGGAGCCACAJAGJGCTGAGGTTTTAAAATTGGAGACACCATAAGGAAAGTAGTGTTTGGGGTGAACAGTAAAT
38608 I S CATGCTCAGCCCCCACCCCAGTCC
38608 P A S CGCGCCGAGGTGAAAGATACACACAAGGGTTY
38608 P T S ATGACGTGGCAGACAGAAAAGATACACAAGGGTTY
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38608 T T S AGGAAACCCTTTGTGTATCTTTTCTGACTGGGGTGGGGGCTGAGCATGCT

38608 IS (AT) TTATGTTTAAGGGTCATAGTGTATAAGTAGCTTCCTAGGAAACCCTTTGTGTATCTTTTCJATJGACTGGGGTGGGGGCTGAGCATGCTTGTGCAGAAAGAAGCCATAGCCAGAAAGGACAGAA KIAA0193
38615 I S CTCCCCTTCACCCCTCCCTCGGGT
38615 P T S CGCGCCGAGGATCTGTGGCTGCTACCY
38615 P C S ATGACGTGGCAGACGTCTGTGGCTCCTACCY
38615 T T S TGCAGGTAGGAGCCACAGATCCCCAGGGACAGGGTGAAGGGGAAGA
38615 T C S TGCAGGTAGGAGCCACAGACCCCCAGGGACAGGGTGAAGGGGAAGA

38615 IS (TC) TACTCCCGGGGGTGACTCTGATGCCTCCCCAGGTCCCCAGGATGGAGGTAGGAGCCACAGA[TC]CCCCAGGGCAGGGGTGAAGGGGAGGACTGTGGACTGCAGCAACCCTCAGCATCCCCTCCCC
38640 I S AGAACCAGCCCACGAAGCCTCTTCCT
38640 P C S ATGACGTGGCAGACGCCCACTGCTGAY
38640 P T S CGCGCCGAGGACGCCACTGCTGAAY
38640 T C S CAAGTTCAGCAGTGGCGCGGAAGAGGCTCCGTGGGCTGGTCTGT
38640 T T S CAAGTTCAGCAGTGGCGTGGAAGAGGCTCCGTGGGCTGGTCTGT

38640 IS (CT) GTCCAGGGCAGGGGGTGGTGGACAATACAGCATCCACGTTTACCAAGTTCAGCAGTGGCGCTGGAAGAGGCTCCGTGGGCTGGTTCTGTTGTGTGATGCCCACTGTATTACAGTTGCTGTGC
38641 I A CGGCCCAGGTGCAGAGTCTCCTCTAATCTCC
38641 P T A CGCGCCGAGGTTCAGTGGAGTTAATGTTTATTGY
38641 P G A ATGACGTGGCAGACGTCAGTGGAGTTAATGTTTATTGY
38641 T T A TCTTCAATAAACATTAACTCCACTGAACAGATTAGAGGAGACTCTGCACCTGGGCCGTC
38641 T G A TCTTCAATAAACATTAACTCCACTGACAGATTAGAGGAGACTCTGCACCTGGGCCGTC

38641 IS (TG) TGCCCTGCGTTTTGGGCAATGAAACTAGAAGGGCCCAGGTGCAGAGTCTCCTCTAATCTCTGTCAGTGGAGTTAATGTTTATTGAAGACCTAATGTAGGCCTGATGTTGGCTAGATCCTTTT
38701 I A AGTCAGTGTGTGTGGAAACAGACAGGTGCTT
38701 P C A CGCGCCGAGGCAACACATGTGAGTTTTCAATY
38701 P G A ATGACGTGGCAGACGAACACATGTGAGTTTTCAATY
38701 T C A TAACATTGAAAACTCACATGTGTTCAGCACCTGCTCTCTTCACACACACTGACTGC
38701 T G A TAACATTGAAAACTCACATGTGTTCAGCACCTGCTCTCTTCCACACACACTGACTGC

38701 IS (CG) CACTCAGCCAGGCAGCACAGAAAACCCAGCAGTCAGTGTGTGTGGAAGAGAGCAGGTGCT[CG]AACACATGTGAGTTTTCAATGTTACTATGAATAATAGGCTGAACATTTCTCTCTGACTTG
38714 I A CCAGAGCCCTCTTTATGTCTTTATTCCTCAGACTATAGATT
38714 P A A CGCGCCGAGCAAAAGGGTTCAGCATGY
38714 P G A ATGACGTGGCAGACGAAGGGTTCAGCATGY
38714 T A A CCCCCATGCTGAACCCCTTTATCTATAGTCTGAGGAATAAAGACATAAAGAGGGCTCTGGGA
38714 T G A CCCCCATGCTGAACCCCTTCATCTATAGTCTGAGGAATAAAGACATAAAGAGGGCTCTGGGA

38714 IS (AG) TCCCCACAACAAATGTATTCCCAGAGCCCTCTTTATGTCTTTATTCCTCAGACTATAGATJAGJAGGGGGTTCAGCATGGGGGTGACCACAGTGTACATCACTGAGGCTGTTGCACTTGAGTGT OR7C1
38725 I S GGTATTTAGAAAATTATGTGGCCTAGCTTCCTTAGGGATTAT
38725 P T S CGCGCCGAGGAATTCTCAGCAAGTTTCATTTATY
38725 P G S ATGACGTGGCAGACATTCTCAGCAAGTTTCATTTATY
38725 T T S AGGCATAAATGAAACTTGCTGAGAATTTAATCCCTAAGGAAGCTAGGCCACATAATTTTCTAAATACCTC
38725 T G S AGGCATAAATGAAACTTGCTGAGAATGTAATCCCTAAGGAAGCTAGGCCACATAATTTTCTAAATACCTC

38725 IS (TG) CAGTTAATTCTCATTAAAGTCCACAGTAAACTTTAGGCATAAATGAAACTTGCTGAGAATJTGJTAATCCCTAAGGAAGCTAGGCCACATAATTTTCTAAATACCTCTTTTCTGTAAAATGCAA
38727 I A ACCTGGACACGTGGTGCACTTAGCCAT
38727 P A A CGCGCCCAAGGACACTGACTTATTTTACCTGGY
38727 P G A ATGACGTGGCAGACGCACTGACTTATTTTACCTGY
38727 T A A TAGGCCAGGTAAAATAAGTCAGTGTTGGCTAAGTGCACCACGTGTCCAGGTGT
38727 T G A TAGGCCAGGTAAAATAAGTCAGTGCTGGCTAAGTGCACCACGTGTCCAGGTGT

38727 IS (AG) CGTCTTCCCCCAGCCCCAGGCTTTCTCAGGCCACACCTGGACACGTGGTGCACTTAGCCAJAGJCACTGACTTATTTTACCTGGCCTATCTCTTTGCCTTGTTGGGTGAAATTAATGCCTTTGA
38761 I A GCGGCTCGCGCGTCACTGACCT
38761 P C A CGCGCCGAGGCTGTGGAGCCCGGY
38761 P G A ATGACGTGGCAGACGTGTGGAGCCCGGY
38761 T C A TCACCCGGGCTCCACAGGGTCAGTGACGCCGCGAGCGGCTC
38761 T G A TCACCCGGGCTCCACACGGTCAGTGACGCCGCGAGCGGCTC

38761 IS (CG) CTGGGGCCCGAAGCAGCTTCGGGAGCCACAGTCGCGGGAGCCGCTCGCCGCGTCACTGACC[CG]TGTGGAGCCCGGGTGAACGAAATCTCGCGTGATTTGCCGCAAACAGGCTGTACTGCACGA
38763 I A CCAGAACACCTTGCGAAGCCGAAAATACACT
38763 P A A CGCGCCGAGGATCTGCATTTTACCGACAAY
38763 P G A ATGACGTGGCAGACGTCTGCATTTTACCGACAY
38763 T A A TTCCTTGTCGGTAAAATGCAGATGTGTATTTTCGGCTTCGCAAGGTGGTCCTCGGGG
38763 T G A TTCCTTGTCGGTAAAATGCAGACGTGTATTTTCGGCTTCGCAAGGTGGTCCTCGGGG

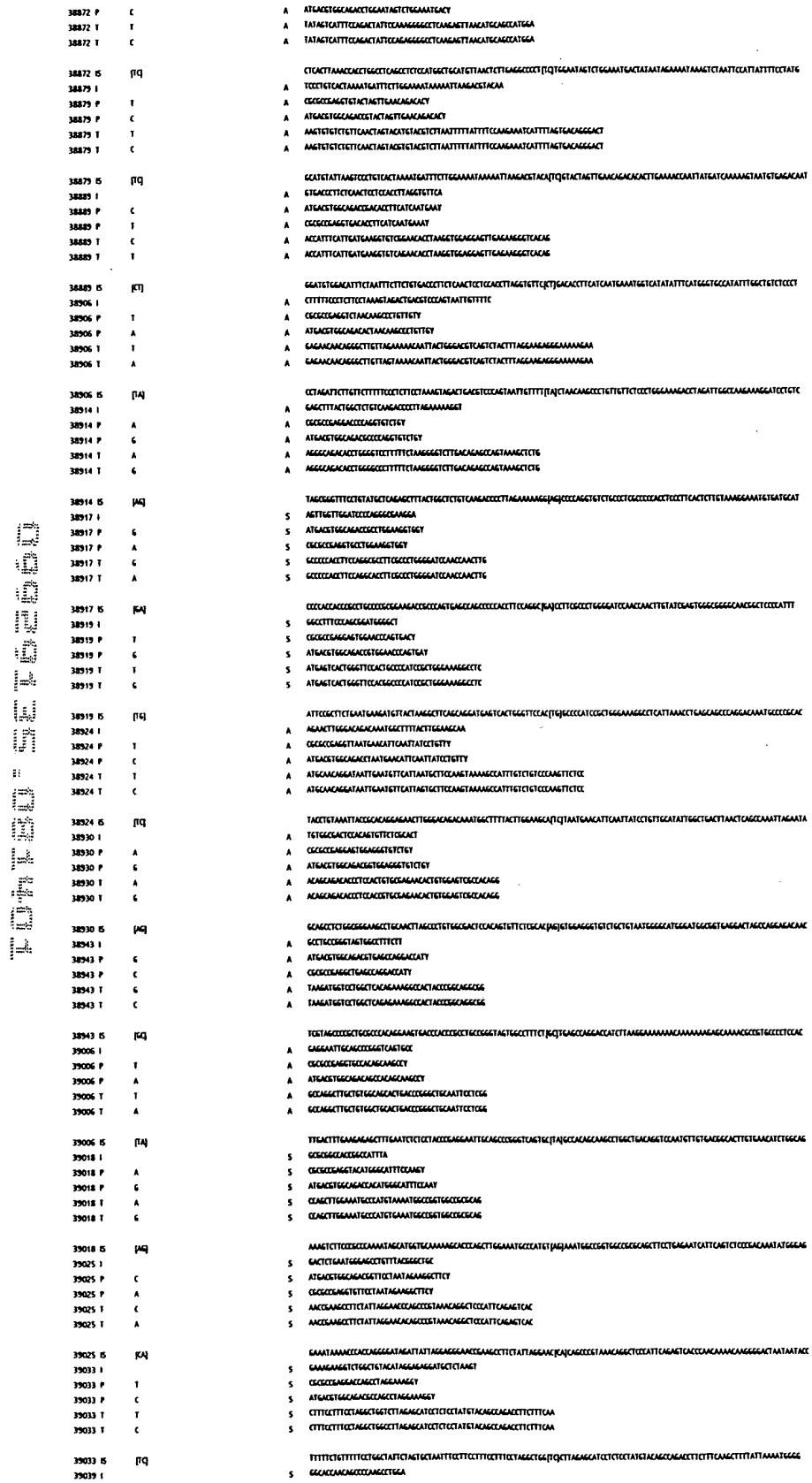
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38793 I S CAGAAACAAGAGTCAACCTGGATGCAACCCAA
38793 P G S ATGACGTGGCAGACCTTCTCATTAAACAAACCTCTGY
38793 P A S CGCGCCGAGGTTCTTCATTAAACAAACCTCTGY
38793 T G S AGGTCAGAGGTTTGTTTAATGAAGAAGTGGGTTGCATCCAGGTTGACTCCTTGTTTTCTGTC
38793 T A S AGGTCAGAGGTTTGTTTAATGAAGAAATGGGTTGCATCCAGGTTGACTCCTTGTTTTCTGTC

38793 IS (GA) GGGAGAAAGTGACCAATATCTGTGCTGTCTCCCCAGGTCAGAGGTTTGTTTAATGAAGAAJGAJTGGGTTGCATCCAGGTTGACTCCTTGTTTTCTGTCCTCCTGTGTCCAGTGCGAGTCTGGA
38837 I S CGAGTCCCAAAACAGTGCCTTTGATGCAGATTT
38837 P G S CGCGCCGAGGCTGTACATCTCTAGACGATTGY
38837 P C S ATGACGTGGCAGACGTGTACATCTCTAGACGATTGY
38837 T G S GGACCAATCGTCTACAGAATGTACAGAATCTGCATCAAAGCACTGTTTTGGGACCTCGCG
38837 T C S GGACCAATCGTCTACAGAATGTACAGAATCTGCATCAAAGCACTGTTTTGGGACCTCGCG

38837 IS (GC) AGACTGGACCACTGGGCCAGAGCACATTCAGCCCTTGGACCAATCGTCTAGAGATGTACAJGCJAATCTGCATCAAAGCACTGTTTTGGGACCTCGCGCATGAATCATGAGTGACCCTGAGTG
38868 I A GCCTCTAGGGAGATAGTGGCCTGACAAAGGAAAC
38868 P T A CGCGCCGAGGTAGTTGTGGTGAGTCTACAAGAY
38868 P G A ATGACGTGGCAGACGAGTTGGTGAGTCTACAAGY
38868 T T A AGAATCTTGTAGACTCACCAACTATTTCCTTTGTCAGGCCACTATCTCCCTAGAGCCC
38868 T G A AGAATCTTGTAGACTCACCAACTCTTTCCTTTGTCAGGCCACTATCTCCCTAGAGCCC

38868 IS (TG) TTCACTATGTAGACAGAGGCAGAATGGGCTCTAGGAGAGATAGTGGCCTCACAAAGGAAAJTGJAGTTGGTGAGTCTACAAGATTCTTATAGGATACTCTTGAAATTGTGTGCAGTTAAAACA T
38872 I A CATGGCTGCATGTTAACTCTTGAGGCCCTA
38872 P T A CGCGCCGAGGTTGGAATAGTCTGGAAATGACY

FIGURE 129F







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39039 T   G     S   CTAGTGCACACGTGGAACGCCAGGCTTGGGGCTGTTGGTGCCAA
39039 T   A     S   CTAGTGCACACGTGGAACACCAGGCTTGGGGCTGTTGGTGCCAA

39039 IS  (GA)        CTTTTGCACATCCCCTTTCCTGCATCTCCACTTGGCACATGTCTAGTGCACACGTGGAACRGACCAGGCTTGGGGCTGTTGGTGCCAAGGACAATCGGGCCATGCTTCACAGACTGAAAAGTC
39064 I           S   CCATGGTCTTGGAAAAGATTGTCCCTTCTCTTGCTGTTT
39064 P   C       S   ATGACGTGGCAGACGTAATGCATCTCTGCTACAGT
39064 P   G       S   CGCGCCGAGGCTAATGCATCTCTGCTACAGT
39064 T   C       S   ACTGCTGTAGCAGAGATGCATTACAACAGCAAGACAAGGGACAATCTTTTCCAAGACCATGGAT
39064 T   G       S   ACTGCTGTAGCAGAGATGCATTAGAACAGCAAGACAAGGGACAATCTTTTCCAAGACCATGGAT
                      TGGGAGACAAAGGGATAAGGTCACAGGATGACAATGACTGCTGTAGCAGAGATGCATTAJCGJAACAGCAAGACAAGGGACAATCTTTTCCAAGACCATGGATAGTAAGCCTTTTGTTCAGG
39064 IS  (CG)        A
39072 I           S   GGCATGAAACTAAAACATGGCTTAAGAATTTAATGACTTGGGAATCATACGAT
39072 P   T       S   CGCGCCGAGGAAAGAAATGTGTATAATTGTGCAY
39072 P   C       S   ATGACGTGGCAGACGAAGAAATGTGTATAATTGTGCAY

39072 T   T       S   AAGTTGCACAATATACACATTTCTTTTCGTATGATTCCCAAGTCATTAAATTCTTAAGCCATGTTTTAGTTTCATGCCTG

39072 T   C       S   AAGTTGCACAATATACACATTTCTTCTCGTATGATTCCCAAGTCATTAAATTCTTAAGCCATGTTTTAGTTTCATGCCTG

39072 IS  (TC)        CCTGGCAGAAACCAAGAGGTCATAGAAGGAAAAAAAGTTGCACAATTATACACATTTCTTJTCGTATGATTCCCAAGTCATTAAATTCTTAAGCCATGTTTTAGTTTCATGCCTGAAAAAG
39090 I           S   GTTTTGGGGGCAAAGATTTGACATAGTTTTAGTCTTGAATAAT
39090 P   C       S   ATGACGTGGCAGACGCTTACAGTACAATAATGTAGAAGY
39090 P   T       S   CGCGCCGAGGACTTACAGTACAATAATGTAGAAGAY
39090 T   C       S   TTTCTCTTCTACATTATTGTACTGTAAGCTTATTCAAGACTAAAACTATGTCAAATCTTTGCCCCCAAAACTC
39090 T   T       S   TTTCTCTTCTACATTATTGTACTGTAAGTTTATTCAAGACTAAAACTATGTCAAATCTTTGCCCCCAAAACTC

39090 IS  (CT)        TAGACTTTAAAATGGTATTACAGCTGCTTTGGTTTCTCTTCTACATTATTGTACTGTAAGJCTJTTATTCAAGACTAAAACTATGTCAAATCTTTGCCCCCAAAACTCAATGAATGAATAAATG
39102 I           S   GAAAATGTCTATCAAGAATACTTCTATTTTTGTGCGCAAAAATTAGTTCTATCTAAA
39102 P   T       S   CGCGCCGAGGATAGTAGGCCTTAAAATTGATTTTTAY
39102 P   C       S   ATGACGTGGCAGACGTAGTAGGCCTTAAAATTGATTTTY

39102 T   T       S   TTTTTAAAAATCAATTTTAAGGCCTACTATTAGATAGAACTAATTTTTGCGCACAAAAATAGAAGTATTCTTGATAGACATTTTCCT

39102 T   C       S   TTTTTAAAAATCAATTTTAAGGCCTACTACTTAGATAGAACTAATTTTTGCGCACAAAAATAGAAGTATTCTTGATAGACATTTTCCT

39102 IS  (TC)        TACACGAACGCCTTCAAAATTCTCAAGTATTTTTTTAAAAATCAATTTTAAGGCCTACTAJTCJTTAGATAGAACTAATTTTTGCGCACAAAAATAGAAGTATTCTTGATAGACATTTTCCTGA
39103 I           A   CTCAAGTATTTTTTTAAAAATCAATTTTAAGGCCTACTATTTAGATAGAACTAATTTTTGA
39103 P   C       A   ATGACGTGGCAGACGCACAAAAATAGAAGTATTCTTY
39103 P   T       A   CGCGCCGAGGTGCACAAAAATAGAAGTATTCTTGY

39103 T   C       A   CTATCAAGAATACTTCTATTTTTGTGCGCAAAAATTAGTTCTATCTAAATAGTAGGCCTTAAAATTGATTTTTAAAAAAATACTTGAG

39103 T   T       A   CTATCAAGAATACTTCTATTTTTGTGCACAAAAATTAGTTCTATCTAAATAGTAGGCCTTAAAATTGATTTTTAAAAAAATACTTGAG

39103 IS  (CT)        CTCAAGTATTTTTTTAAAAATCAATTTTAAGGCCTACTATTTAGATAGAACTAATTTTTGJCTJGCACAAAAATAGAAGTATTCTTGATAGACATTTTCCTGATCCTCTAGCTAGAAATTGGGG
39109 I           S   GCCATGCTGGGCAGCAAGATCCACAT
39109 P   G       S   ATGACGTGGCAGACCGTGTGCAGACAGGAY
39109 P   T       S   CGCGCCGAAGAGTGTGCAGACAGGACY
39109 T   G       S   CAGGGTCCTGTCTGCACACGTGTGGATCTTGCTGCCCAGCATGGCCT
39109 T   T       S   CAGGGTCCTGTCTGCACACTTGTGGATCTTGCTGCCCAGCATGGCCT

39109 IS  (GT)        TGAAGGGGACAGGATGACTCTCAGGAAAAGAGCACCTGCCCGCAGGGTCCTGTCTGCACACJGTJTGTGGATCTTGCTGCCCAGCATGGCCTGAGCCCCGGCCATGGGCAGGTCCCGTCCAGGAG
39141 I           A   CCAGTCCTGGCACATGGGGCTTTCTCCT
39141 P   A       A   CGCGCCGAGGACAAGCTCCTGGAGGY
39141 P   G       A   ATGACGTGGCAGACGGAAGCTCCTGGAGGY
39141 T   A       A   TAAACCTCCAGGAGCTTCTGGAGAAAGCCCCATGTGCCAGGACTGGGC
39141 T   G       A   TAAACCTCCAGGAGCTTCCGGAGAAAGCCCCATGTGCCAGGACTGGGC

39141 IS  (AG)        GTCCCTGTGACCTTGGCCTCCATTTCTTGGTGCCCAGTCCTGGCACATGGGGCTTTCTCCJAGJGAAGCTCCTGGAGGTTTATACCCAGCCCAGAGAGCTGTCCTCTGCTGGCTGCAGGGCACC
39174 I           A   ACTTTCATTTGCCTTCACTGGTGTCACTGTCGCA
39174 P   T       A   CGCGCCGAGGTGTCACTGCTGCTGTY
39174 P   C       A   ATGACGTGGCAGACCGTCACTGCTGCTGY
39174 T   T       A   ACTGACAGCAGCAGTGACAGCGACAGTGACACCAGTGAAGGCAAATGAAAGTGG
39174 T   C       A   ACTGACAGCAGCAGTGACAGCCACAGTGACACCAGTGAAGGCAAATGAAAGTGG

39174 IS  (TC)        TGAGACATTGCTGCTCCTGAATCTCCACTTTCATTTGCCTTCACTGGTGTCACTGTCGCJTCJGTCACTGCTGCTGTCAGTATCACTGTCACTGGTCAATGCAGTTAGATTACTTAGGGCTTC                                FL20758
39202 I           S   CGTTGCTGATGATGGCACCTGCTGTGCT
39202 P   C       S   ATGACGTGGCAGACGTTGTTCTGCTGCCCY
39202 P   T       S   CGCGCCGAGGATTGTTCTGCTGCCCTY
39202 T   C       S   AGGCAGGGCAGCAGAACAACGCACAGCAGGTGCCATCATCAGCAACGTG
39202 T   T       S   AGGCAGGGCAGCAGAACAATGCACAGCAGGTGCCATCATCAGCAACGTG

39202 IS  (CT)        CTGTCCCACACAAAGGCAGTCTCCAACACAGCACGGTGCTCAGGCAGGGCAGCAGAACAAJCTJGCACAGCAGCTGCCATCATCAGCAACGTGTGTGGGCATCCCTGCCCAGGCACTCTGCAGA
39208 I           S   TGAAAGGCAGCCCCCGCATGCGT
39208 P   T       S   CGCGCCGAGGAACAATGACTTGATTTTCCTTGY
39208 P   C       S   ATGACGTGGCAGACGACAATGACTTGATTTTCCTTGY
39208 T   T       S   TCTCCAAGGAAAATCAAGTCATTGTCGCATGCGGGGGCTCCCTTTCACG
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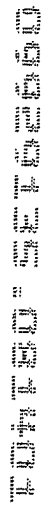
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39219 I           A   ACCTCGGAATATCAAGGTTGTAAGTCTTGAGATGCTTGAATTTGAAGT
39219 P   A       A   CGCGCCGAGGACAACATTGCTGGAAATTCTY
39219 P   G       A   ATGACGTGGCAGACGCAACATTGGTGGAAATTCY
39219 T   A       A   GCATAGAATTTCCACCAATGTTGTCTTCAAATTCAAGCATCTCAAGACTTACAAACCTTGATATTCCGAGGTCT
39219 T   G       A   GCATAGAATTTCCACCAATGTTGCCTTCAAATTCAAGCATCTCAAGACTTACAAACCTTGATATTCCGAGGTCT

39219 IS  (AG)        TCTGAAGAAGAAGACCTCGGAATATCAAGGTTTGTAAGTCTTGAGATGCTTGAATTTGAAGJAGJCAACATTGGTGGAAATTCTATGCACTTCGTGTTGAGAAACAGCAGGACATAAAACCCAT
39233 I           A   GGGCAGGGCTTGCTCAGAGCCCT
39233 P   A       A   CGCGCCGAGGAGGAAGCTTGTTGGAGAY
39233 P   C       A   ATGACGTGGCAGACGGAGCTTGTTGGAGAY
39233 T   A       A   TCTGTCTCCAACAAGCTCCTGGCTGTGAGCAAGCCCTGCCCTT
39233 T   C       A   TCTGTCTCCAACAAGCTCCTCCGGGCTGTGAGCAAGCCCTGCCCTT

39233 IS  (AC)        GTGGAGTGCAGACAGGGGGAATTCTGCACTTTCAGGGAAGGGCAGGGCTTGCTCACAGCCCJACJGCAGCTTGTTGGAGACAGACTCAGCTGCTCCAGTTCTCCTCTCCCAGCTGAGCCAAAGGC
39264 I           S   GACAAGTGGTTGAAGGTAACACTGCCCAGGTCC
39264 P   C       S   ATGACGTGGCAGACGGCTCCTGGGTATTCCY
39264 P   A       S   CGCGCCGAGGTGCTCCTGGGTATTCCY
39264 T   C       S   ATGAGGAATACCCAGGAGCCGCACTTGGGCAGTGTTACCTTCAACCACTTGTCAA
39264 T   A       S   ATGAGGAATACCCAGGAGCAGACTTGGGCAGTGTTACCTTCAACCACTTGTCAA
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Atty. Docket No. 10466-1

FIGURE 129F



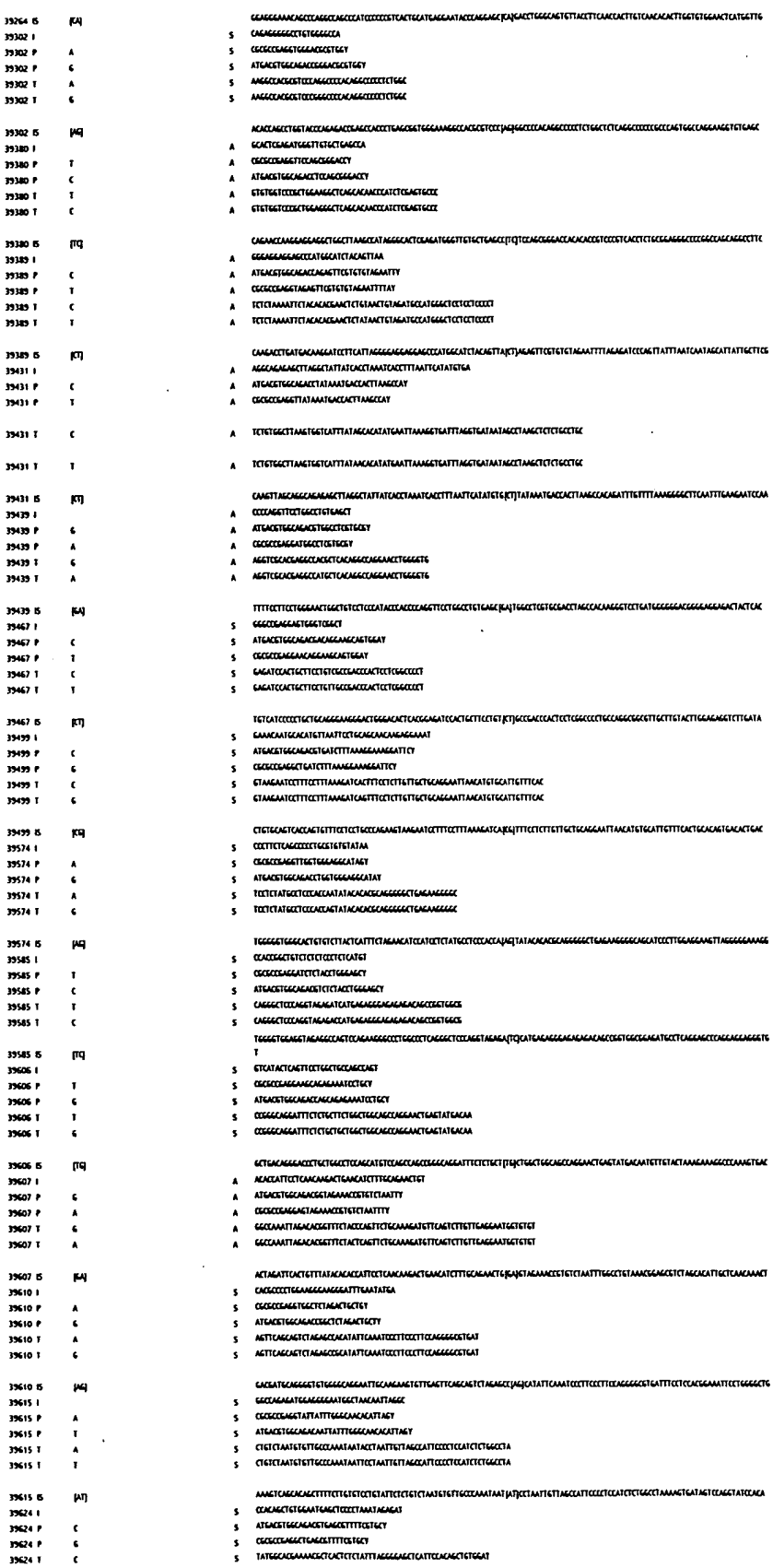
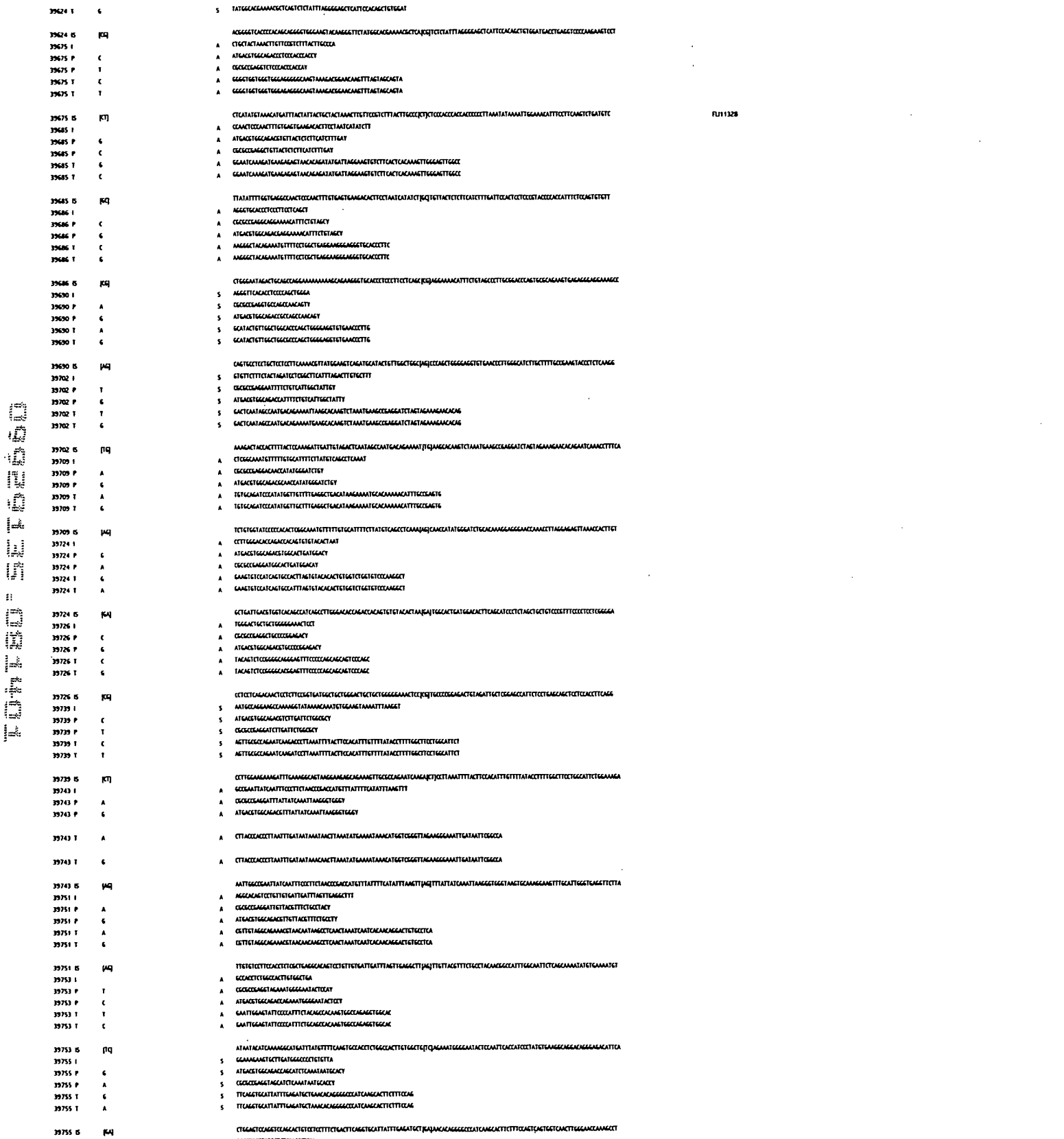
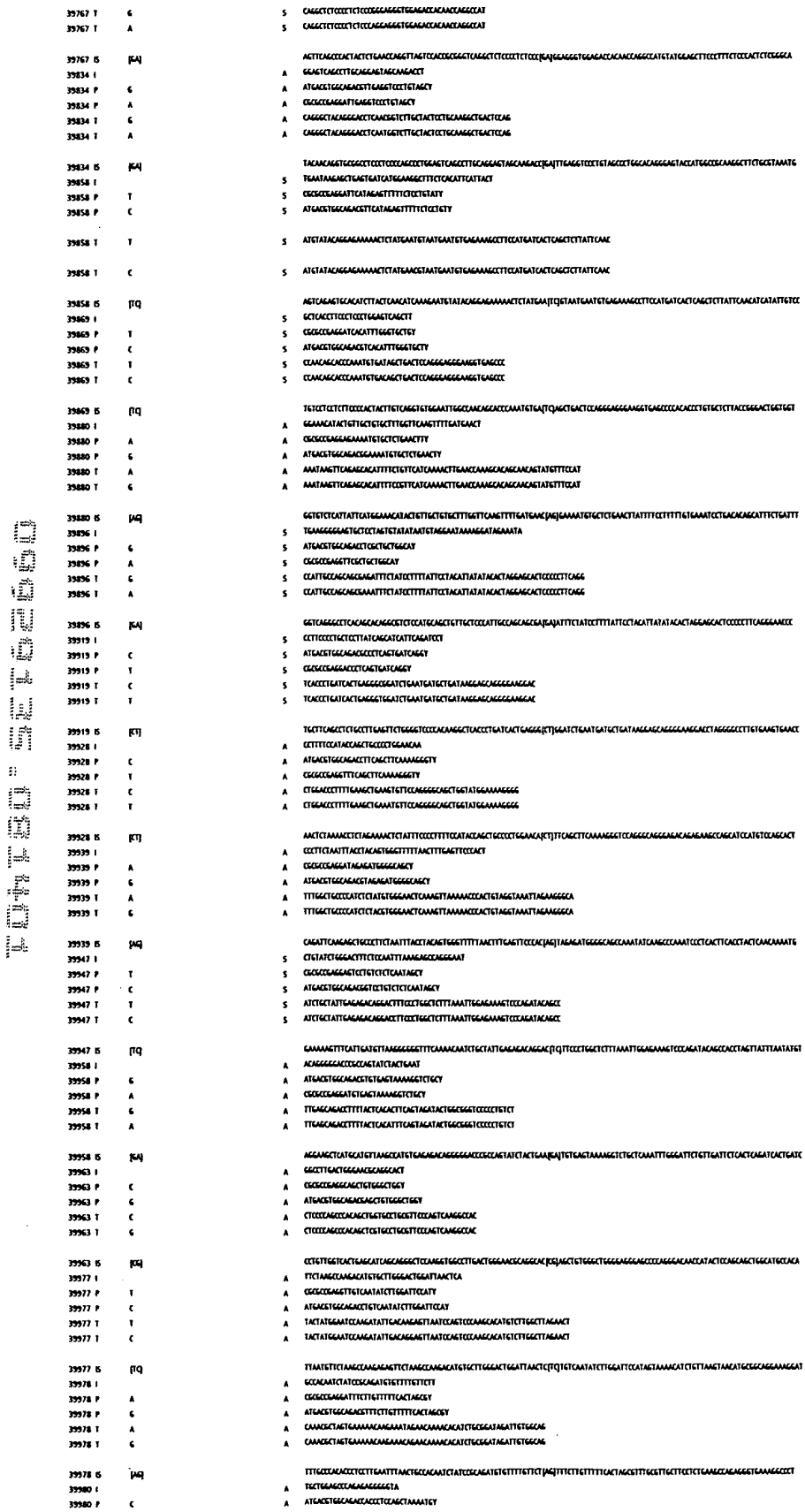


FIGURE 129F









Docket No. 2000-1-PCT
Application No. 10/
Applicant: Applera Corporation
Inventor: Yi Xiao et al.
Sheet 371 of 384

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39980 P   T          A  CGCGCCGAGGTACCCTCCAGCTAAAATGAY
39980 T   C          A  TAAATCATTTTAGCTGGAGGGTGACCCCCTCTCTGGGCTCCAGCACC
39980 T   T          A  TAAATCATTTTAGCTGGAGGGTAACCCCCTCTCTGGGCTCCAGCACC

39980 IS  [CT]          TTTCCTCTCTTTCTTTCCTGGAGAAACAGGATGGCAGCTGCTGGAGCCCAGAGAGGGGGT[CT]ACCCTCCAGCTAAAATGATTTAAATGGAAAGGAGAATGACAGCAAAGCCTCACGTGAACT
40027 I             S  GGCCCTGAAGAGCTCTGTCCCTGTTCAAT
40027 P   C          S  ATGACGTGGCAGAGCTGTATCTTCTTGAGCTAGGY
40027 P   T          S  CGCGCCGAGGATGTATCTCTTGAGCTAGGY
40027 T   C          S  GCAGCCTAGCTCAAGAAGATACACTTGAACAGGGACAGAGCTCTTCAGGGCCAT
40027 T   T          S  GCAGCCTAGCTCAAGAAGATACATTTGAACAGGGACAGAGCTCTTCAGGGCCAT

40027 IS  [CT]          CCCTGGTGATCTAGAGGGACTGACTCATGGGCACTAGGGAGCCTAGCTCAAGAAGATACA[CT]TTGAACAGGGACAGAGCTCTTCAGGGCCATACTAGCCCAAGATCAGCTTCGAGTTCCACT
40038 I             A  GCCCACAGAGGCCCTGAGGCA
40038 P   C          A  ATGACGTGGCAGACCGCTGGTCTTAGCCAY
40038 P   T          A  CGCGCCGAGGTGCTGGTCTTAGCCAAT
40038 T   C          A  TCCTTTGGCTAAGACCAGCGGCCTCAGGGCCCTCTGTGGGCAG
40038 T   T          A  TCCTTTGGCTAAGACCAGCAGCCTCAGGGCCCTCTGTGGGCAG

40038 IS  [CT]          CTCCCAGGACCCCAGGAGGGAGCGCATGTCAGAAATCCTGCCCACAGAGGGCCCTCAGGC[CT]GCTGGTCTTAGCCAAAGGAGCAGCAACAGCTGAGAGAAGGATCACAATGGTGGCCAAACA
40049 I             A  GGGAGCTTGGGGTTCTTTGCTACCCAAGAT
40049 P   G          A  ATGACGTGGCAGACGGTCAAAACCAGCTTGTY
40049 P   A          A  CGCGCCGAGGAGTCAAAACCAGCTTGTCY
40049 T   G          A  CCAAGACAAGCTGGTTTTGACCTCTTGGGTAGCAAAGAACCCCAAGCTCCCAC
40049 T   A          A  CCAAGACAAGCTGGTTTTGACTTCTTGGGTAGCAAAGAACCCCAAGCTCCCAC

40049 IS  [GA]          CTGCTCCTGCCTCGATGCTCAAGAAGCCTGTGGGAGCTTGGGGTTCTTTGCTACCCAAGA[GA]GTCAAAACCAGCTTGTCTTGGGAGCCTGGGTGTGCCTGGCTGACAGGGCGTCCCAGATG
40066 I             S  CCTTCTCCAAGTGTGACTGGCACCTGCA
40066 P   G          S  ATGACGTGGCAGACGAGTGTGACTGGCTY
40066 P   A          S  CGCGCCGAGGTGAGTGTGACTGGCTTAY
40066 T   G          S  AGACTAAGCCAGTCACACTCGGCAGGTGCCAGTCACACCTGGAGAAGGAG
40066 T   A          S  AGACTAAGCCAGTCACACTCAGCAGGTGCCAGTCACACCTGGAGAAGGAG

40066 IS  [GA]          ACGTCCAATCCCCTTTGGAGAGGGACATGTCAAGGTGCTGAGACTAAGCCAGTCACACTC[GA]GCAGGTGCCAGTCACACCTGGAGAAGGAGGCTGAGCTCTGCCCACTCATCAAACTCCTCC
40107 I             S  TGGCAGGACCTTCCTGACTGCTCCAACT
40107 P   C          S  ATGACGTGGCAGACGGACTCCACAGCCAY
40107 P   T          S  CGCGCCGAGGAGACTCCACAGCCAGY
40107 T   C          S  GGGGCTGGCTGTGGAGTCCGTTGGAGCAGTCAGGAAGGTCCTGCCAGT
40107 T   T          S  GGGGCTGGCTGTGGAGTCTGTTGGAGCAGTCAGGAAGGTCCTGCCAGT

40107 IS  [CT]          GGCCTCACTCCGGTCCCTGCAGGCTGTACGTGGTCACTGCTTGGGGCTGGCTGTGGAGTC[CT]GTTGGAGCAGTCAGGAAGGTCCTGCCAGTCAGCCAGGGCAGTGTCTGCCTCAACCCTGGC
40111 I             A  CTTGACATTTCAGAAAACTATGTCAGAGAGATACTTTTTGCATATAGTGT
40111 P   G          A  ATGACGTGGCAGACGCTATCCCAGAGCTGCY
40111 P   A          A  CGCGCCGAGGACTATCCCAGAGCTGCY
40111 T   G          A  TTGAGCAGCTCTGGGATAGCCACTATATGCAAAAAGTATCTCTCTGACATAGTTTTCTGAAATGTCAAGAT
40111 T   A          A  TTGAGCAGCTCTGGGATAGTCACTATATGCAAAAAGTATCTCTCTGACATAGTTTTCTGAAATGTCAAGAT

40111 IS  [GA]          TCATCTCTAATCTTCACATTTCAGAAAACTATGTCAGAGAGATACTTTTTGCATATAGTG[GA]CTATCCCAGAGCTGCTCAAATGCCTTGCAACTTAGCCTACATATAAACACCACATCTGCA
40120 I             S  GCTAACTTGGCCCAGTGCCTGTGTGTCTT
40120 P   C          S  ATGACGTGGCAGACGTCCTTCCCTTATTACACACY
40120 P   G          S  CGCGCCGAGGCTCCTTCCCTTATTACACACY
40120 T   C          S  ATGAGTGTGTAATAAGGAAGGACAGACACACAGGCACTGGGCCAAGTTAGCAA
40120 T   G          S  ATGAGTGTGTAATAAGGAAGGAGAGACACACAGGCACTGGGCCAAGTTAGCAA

40120 IS  [CG]          ACGGCCTGCAGTGGATGTGAATGCACCTGTCTGGAAAGATGAGTGTGTAATAAGGGAAGGA[CG]AGACACACAGGCACTGGGCCAAGTTAGCAAATCTGCCATCAGAATGGCGTTAGGGAGAC
                        T
40123 I             S  CAATGTTAAATCAAGCCATTATTATTCCATGCTGGCTTTTC
40123 P   A          S  CGCGCCGAGGTAAATAAAAACGCTTGCGGY
40123 P   T          S  ATGACGTGGCAGACAAAATAAAAACGCTTGCGGY
40123 T   A          S  GGAGCCGCAAGCGTTTTTATTTAAAAAGCCAGCATGGAATAATAATGGCTTGATTTAACATTGCA
40123 T   T          S  GGAGCCGCAAGCGTTTTTATTTAAAAAGCCAGCATGGAATAATAATGGCTTGATTTAACATTGCA

40123 IS  [AT]          GATGATATTTCTATATTGTAGTCAGCTGAGGGCTCAGAGGAGCCGCAAGCGTTTTTATTT[AT]AAAAGCCAGCATGGAATAATAATGGCTTGATTTAACATTGCAATTATCTCTCTGAGCACT
40155 I             A  GTGATTTCTGTGCAAGCTCCTTGGGAAGGACTT
40155 P   G          A  ATGACGTGGCAGACGTTCTTCTATTGGTTTGGGCY
40155 P   C          A  CGCGCCGAGGCTTCTTCTATTGGTTTGGGCY
40155 T   G          A  CACAGCCCAAACCAATAGAAGAACAGTCCTTCCCAAGGAGCTTGCACAGAAATCACAA
40155 T   C          A  CACAGCCCAAACCAATAGAAGAAGAGTCCTTCCCAAGGAGCTTGCACAGAAATCACAA

40155 IS  [GC]          AGATTGTTGTGTTCATTGTCTCAGGCTTGTGATTTCTGTGCAAGCTCCTTGGGAAGGACT[GC]TTCTTCTCATTGGTTTGGGCTGTGGTTTCCCCTGCTGTGTTTTCTCTACCTGTTTGGTTGT
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40162 P   A          A  CGCGCCGAGGATGAAGCACTATTATTAAGGGAAT
40162 P   G          A  ATGACGTGGCAGACGTGAAGCACTATTATTAAGGGAY
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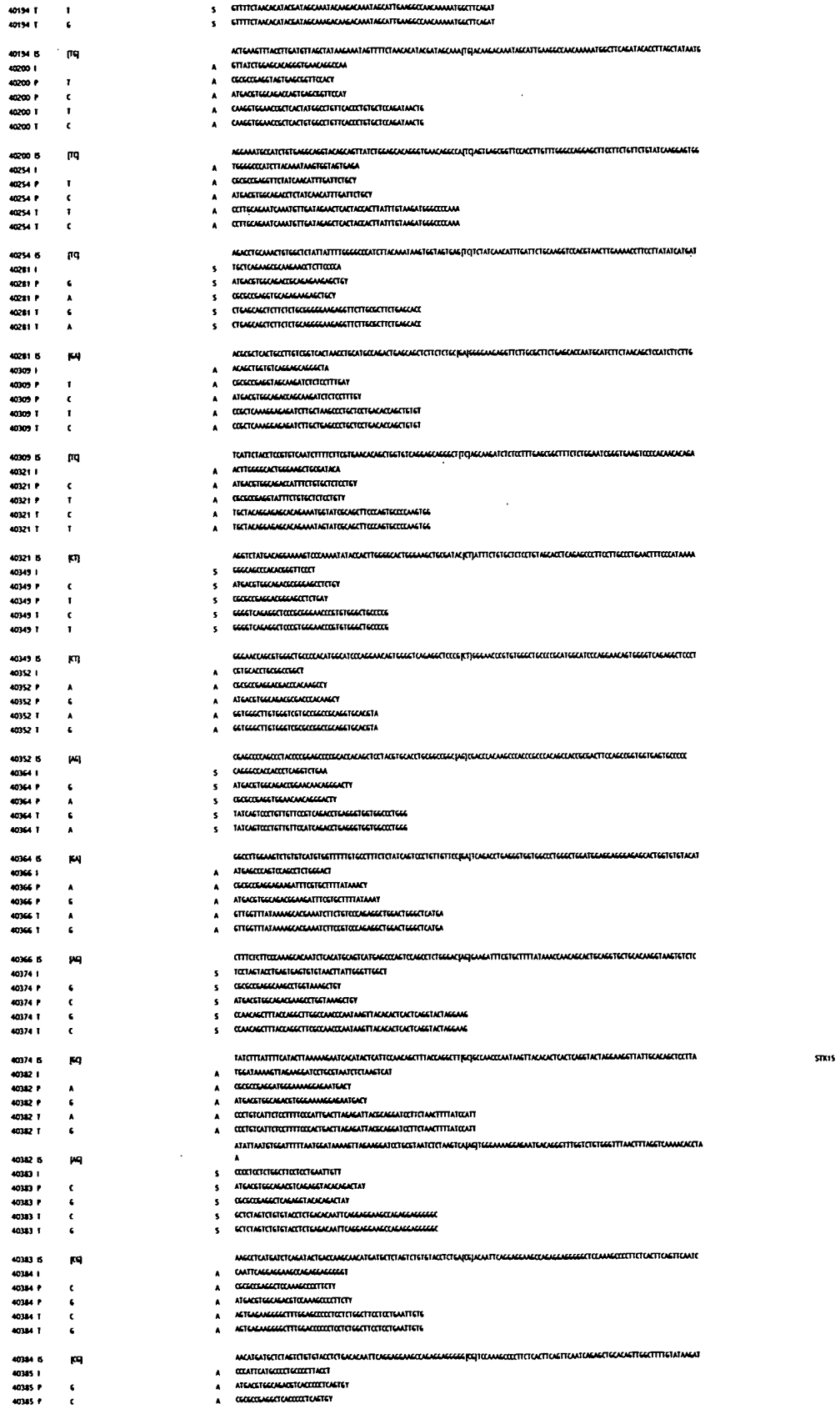
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40174 I             S  GTGGCCCGTGGCCTGTGATTCACAATGA
40174 P   A          S  CGCGCCGAGGTAGCCTCTATTCTGGGCTGY
40174 P   G          S  ATGAGGTGGCAGACACCTCTATTCTGGGCTY
40174 T   A          S  AAAGCAGCCCAGAATAGAGGTACATTGTGAATCACAGGCCACGGGCCACAT
40174 T   G          S  AAAGCAGCCCAGAATAGAGGTGCATTGTGAATCACAGGCCACGGGCCACAT

40174 IS  [AG]          CAAGAAATCAGTCCGCCCGAGCTGGCCCCAACTCTCAGAAAGCAGCCCAGAATAGAGGT[AG]CATTGTGAATCACAGGCCACGGGCCACATCGGCAGGCAGAAAGCTGCCGCAGACGGACT
40181 I             A  GGTCATCTCATGGATGGAAAGAGCTTAAACCACCCAA
40181 P   T          A  CGCGCCGAGGTCCATTTTTGAAACCTTGACY
40181 P   C          A  ATGACGTGGCAGACCCCATTTTTGAAACCTTGACY
40181 T   T          A  CGAGGTCAAGGTTTCAAAAATGGATGGGTGGTTTAAGCTCTTTCCATCCATGAGATGACCTG
40181 T   C          A  CGAGGTCAAGGTTTCAAAAATGGGTGGGTGGTTTAAGCTCTTTCCATCCATGAGATGACCTG

40181 IS  [TC]          GGTTCAAAAGACACAAGATGGTCAGGTCATCTCATGGATGGAAAGAGCTTAAACCACCCA[TC]CCATTTTTTGAAACCTTGACCTCGAGAAGAAAGACAGAGAAAGCTTTTACGTTTTTAAAACAG
40191 I             A  CCATGGGAACACTGATCCTAGTTCAGTGGAGTGAGAT
40191 P   A          A  CGCGCCGAGGATATCATCATTTCCTTTTCACAGY
40191 P   C          A  ATGACGTGGCAGACCTATCATCATTTCCTTTTCACAT
40191 T   A          A  AAAGCTGTGAAAAAGCAAATGATGATATTTCTCACTCCACTGAACTAGGATCAGTGTTCCCATGGAC
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40191 IS  [AC]          TGTGGAAGAAAACACATCTAGCTCCATGGGAACACTGATCCTAGTTCAGTGGAGTGAGAA[AC]TATCATCATTTCCTTTTCACAGCTTAGATCCACTACTATCCACTACTATGTTTCAGGT
40194 I             S  CTGAAGCCATTTTTGTTGGCCTTCAATGCTATTTGTCTTGTT
40194 P   T          S  CGCGCCGAGGATTTGCTATCGTATGTGTTAGAY
40194 P   G          S  ATGACGTGGCAGACCTTTGCTATCGTATGTGTTAGAY
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FIGURE 129F



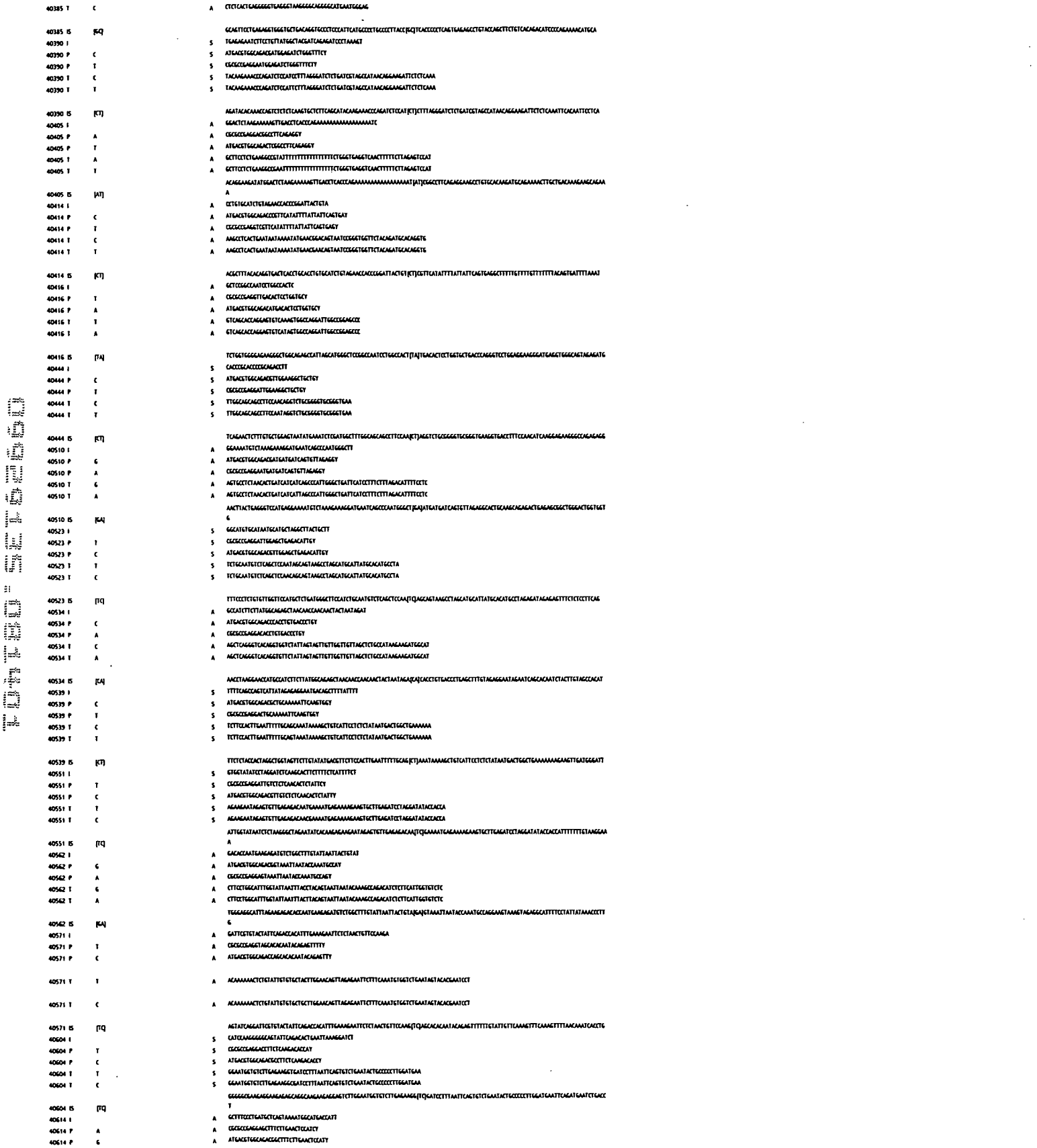
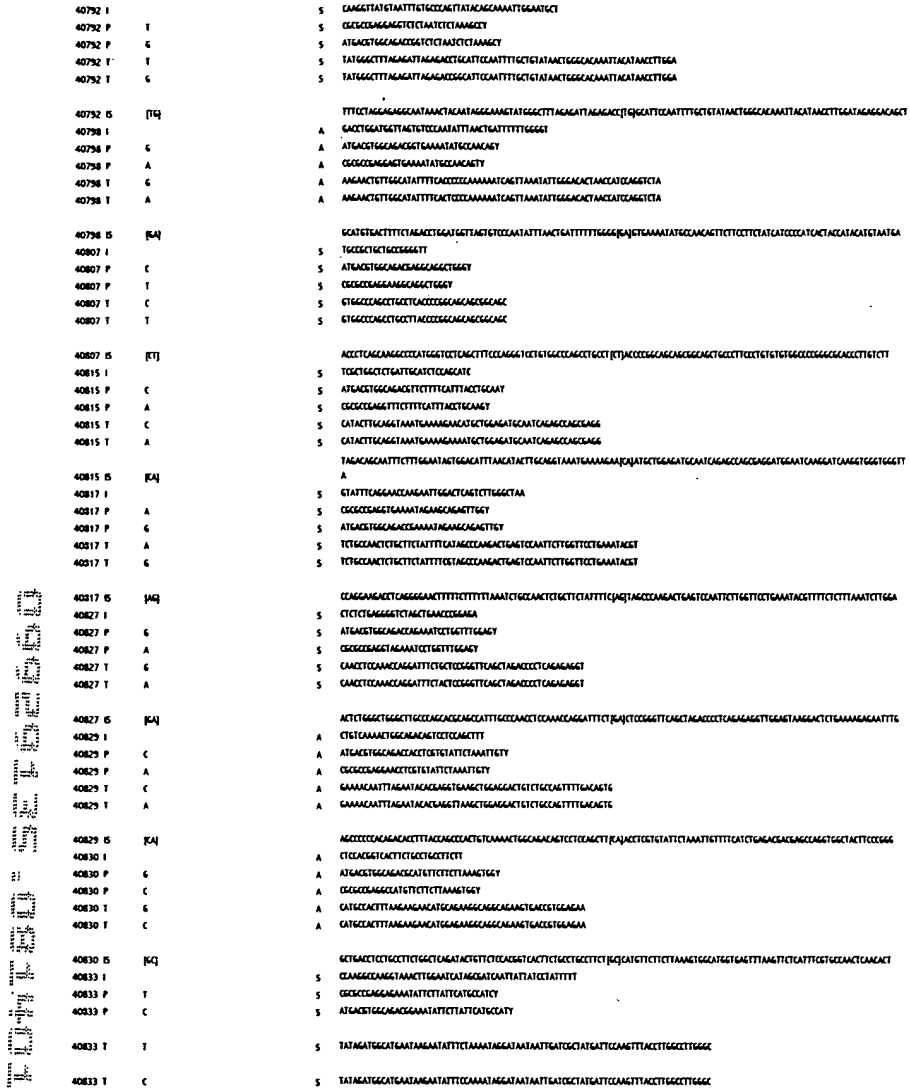
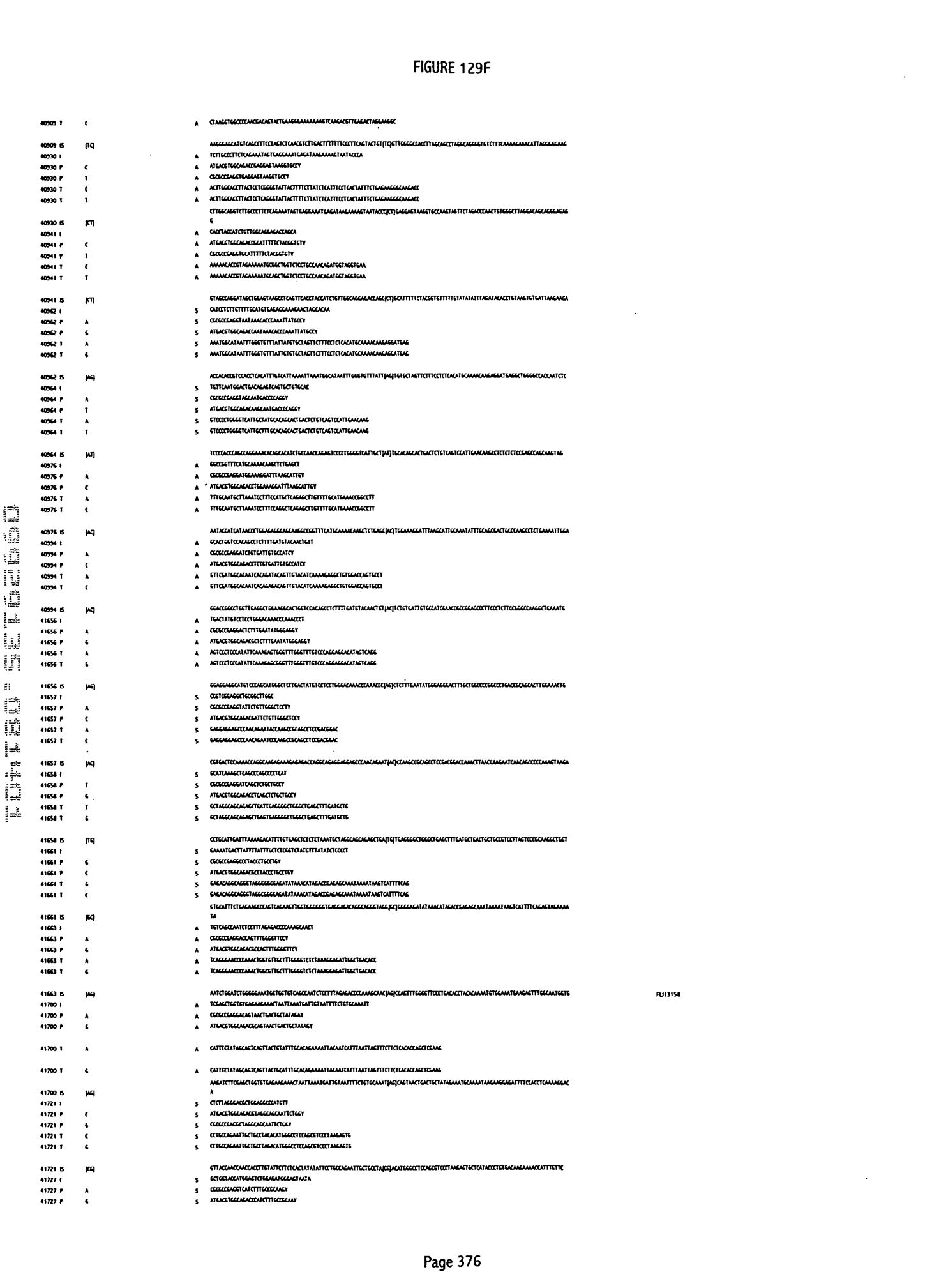
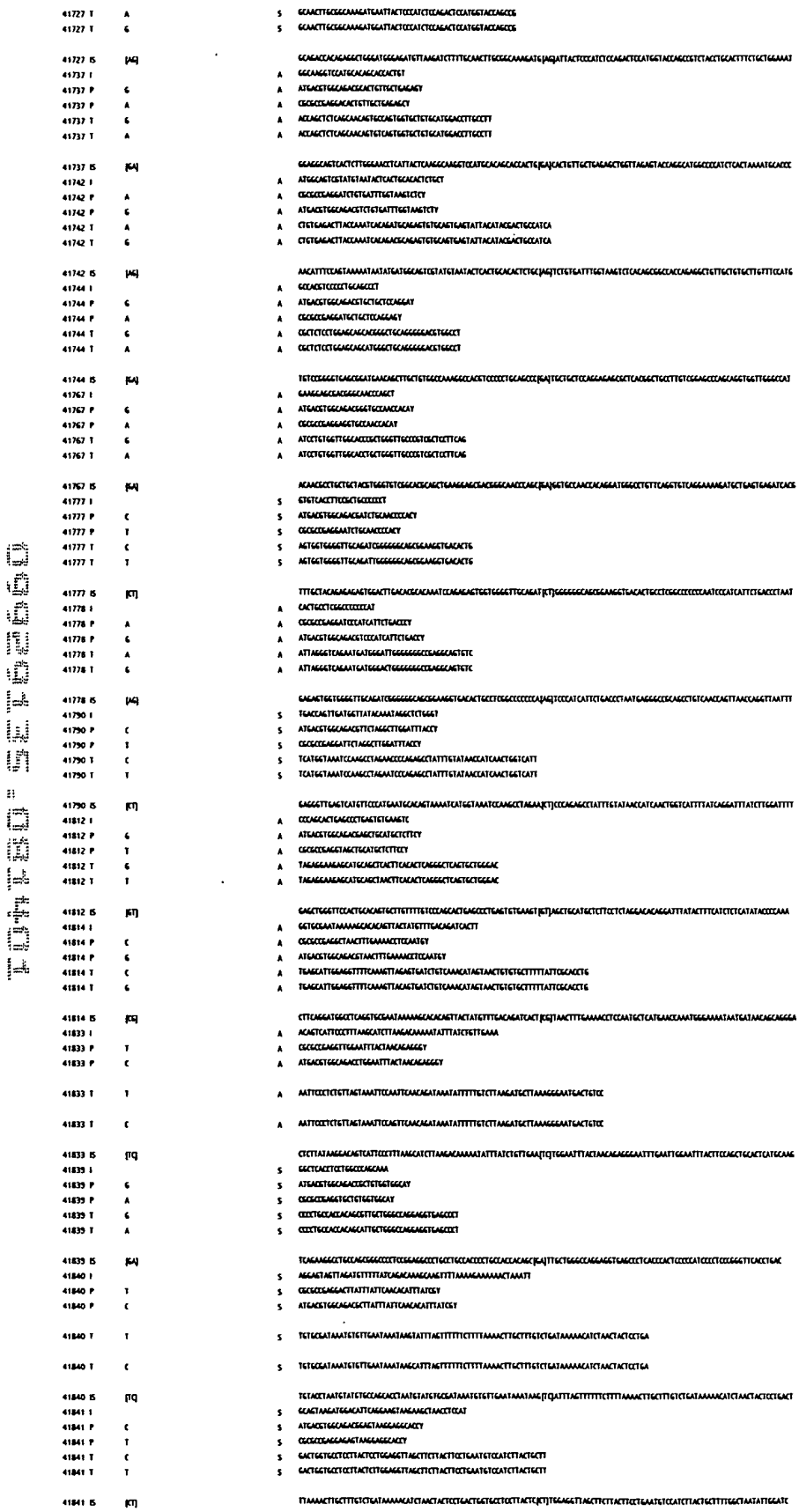


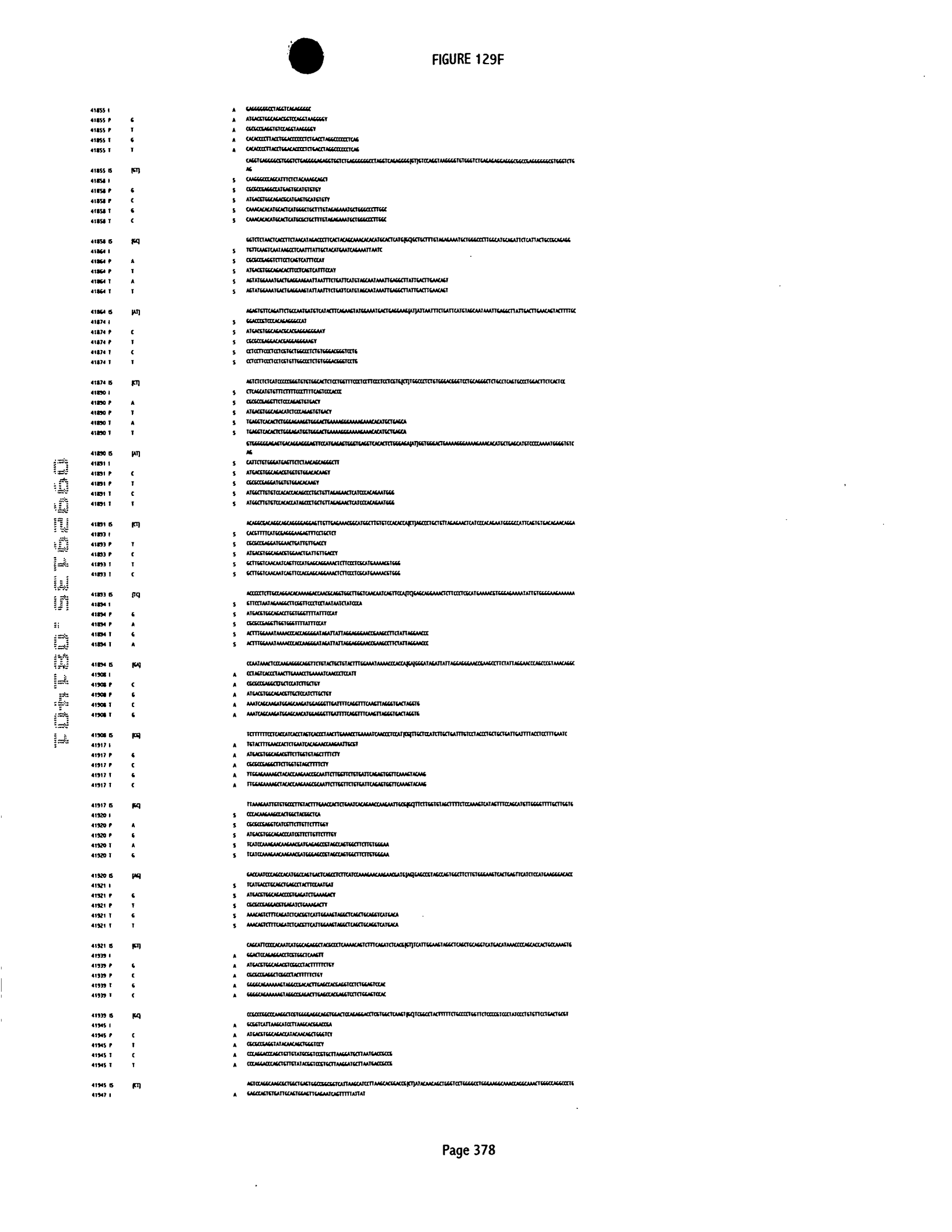


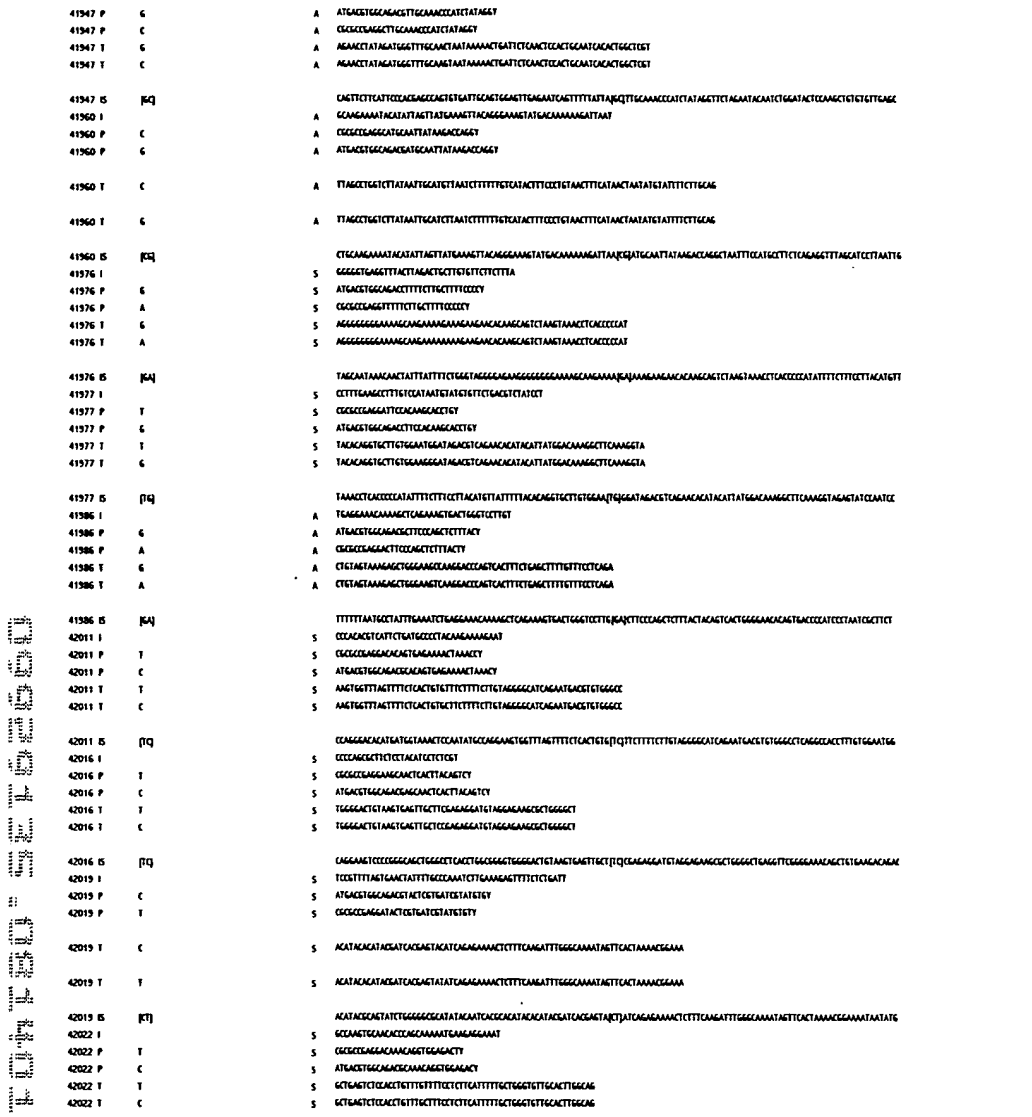
FIGURE 129F











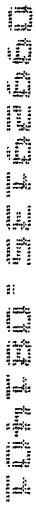


FIGURE 129F

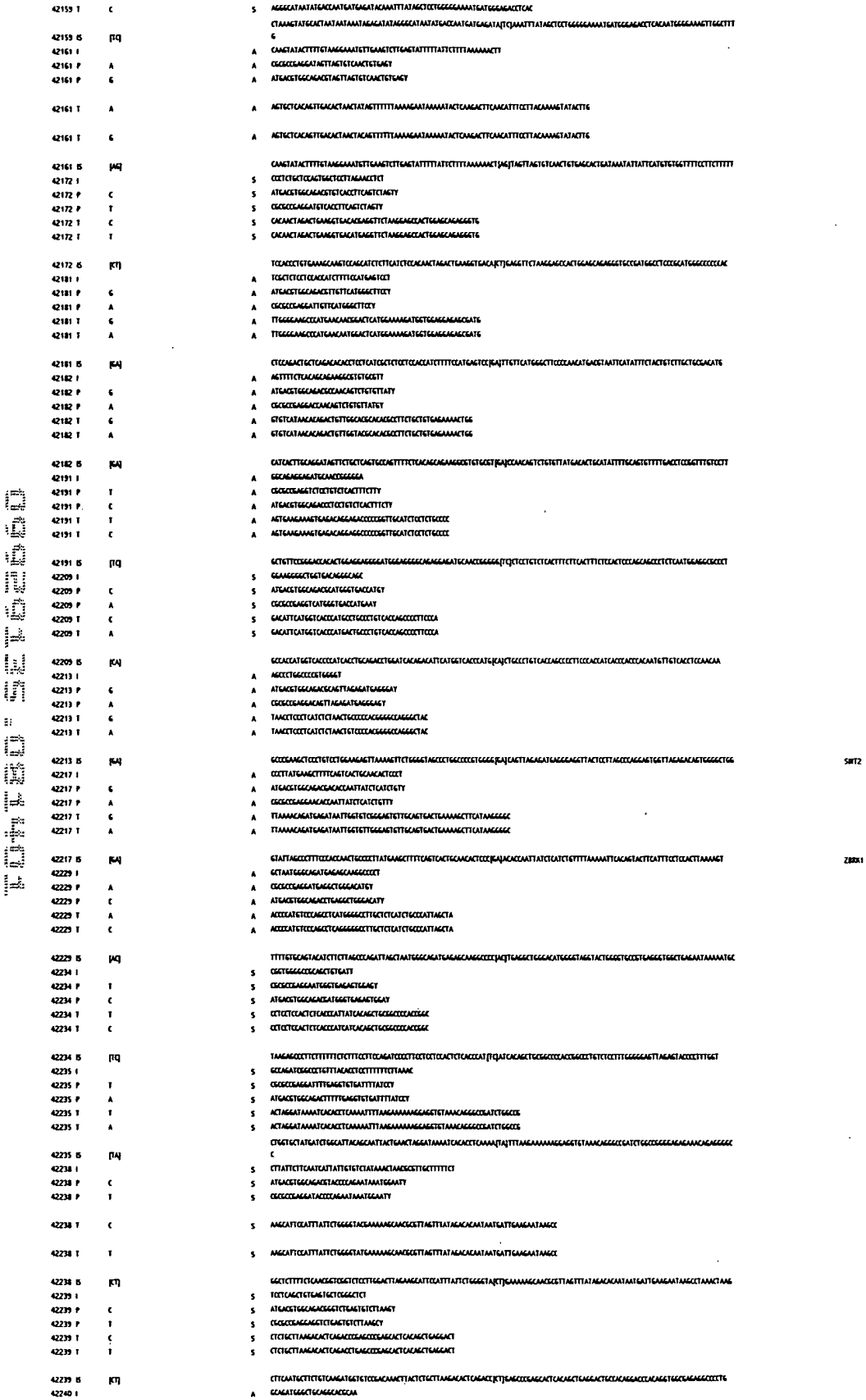
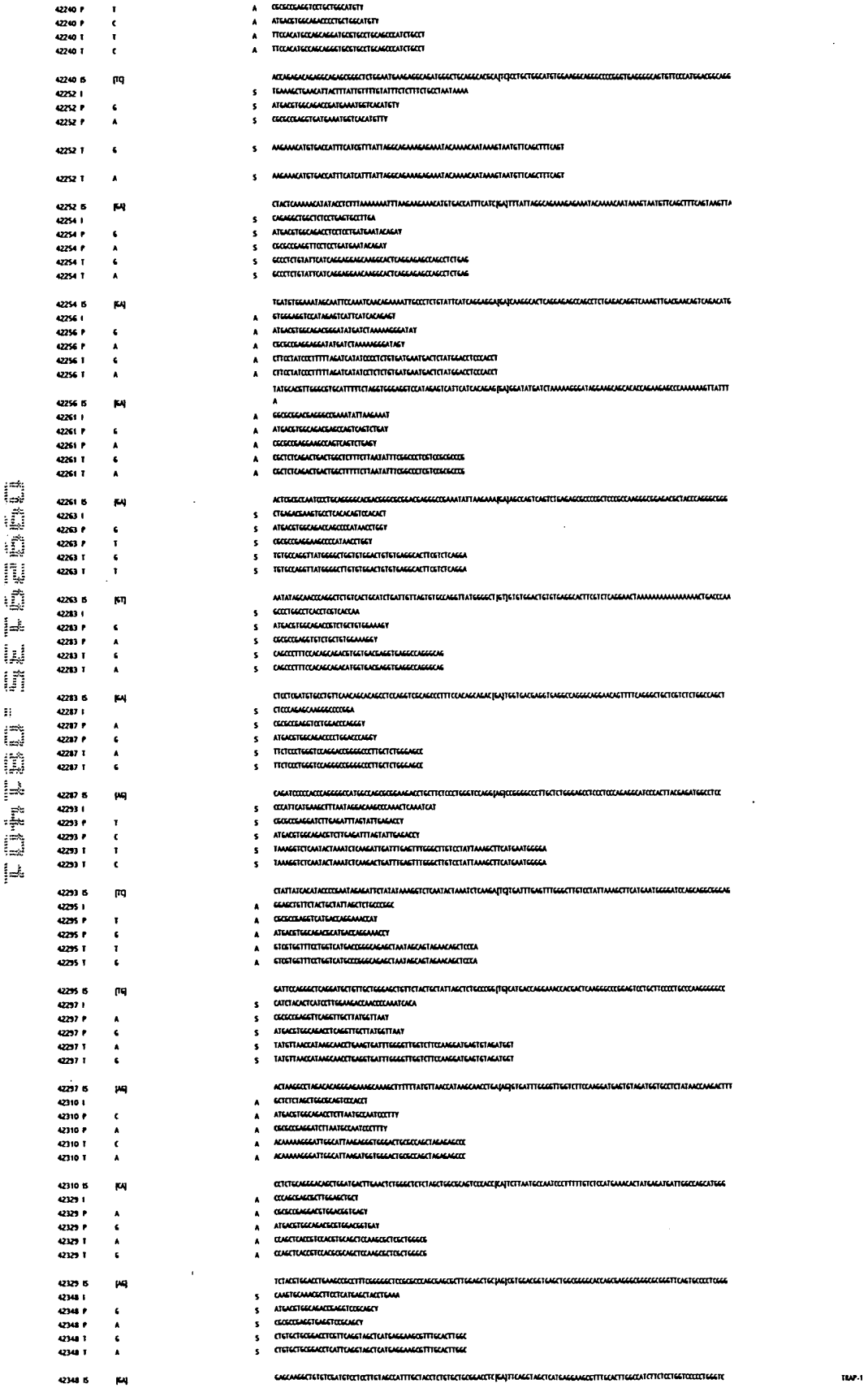


FIGURE 129F



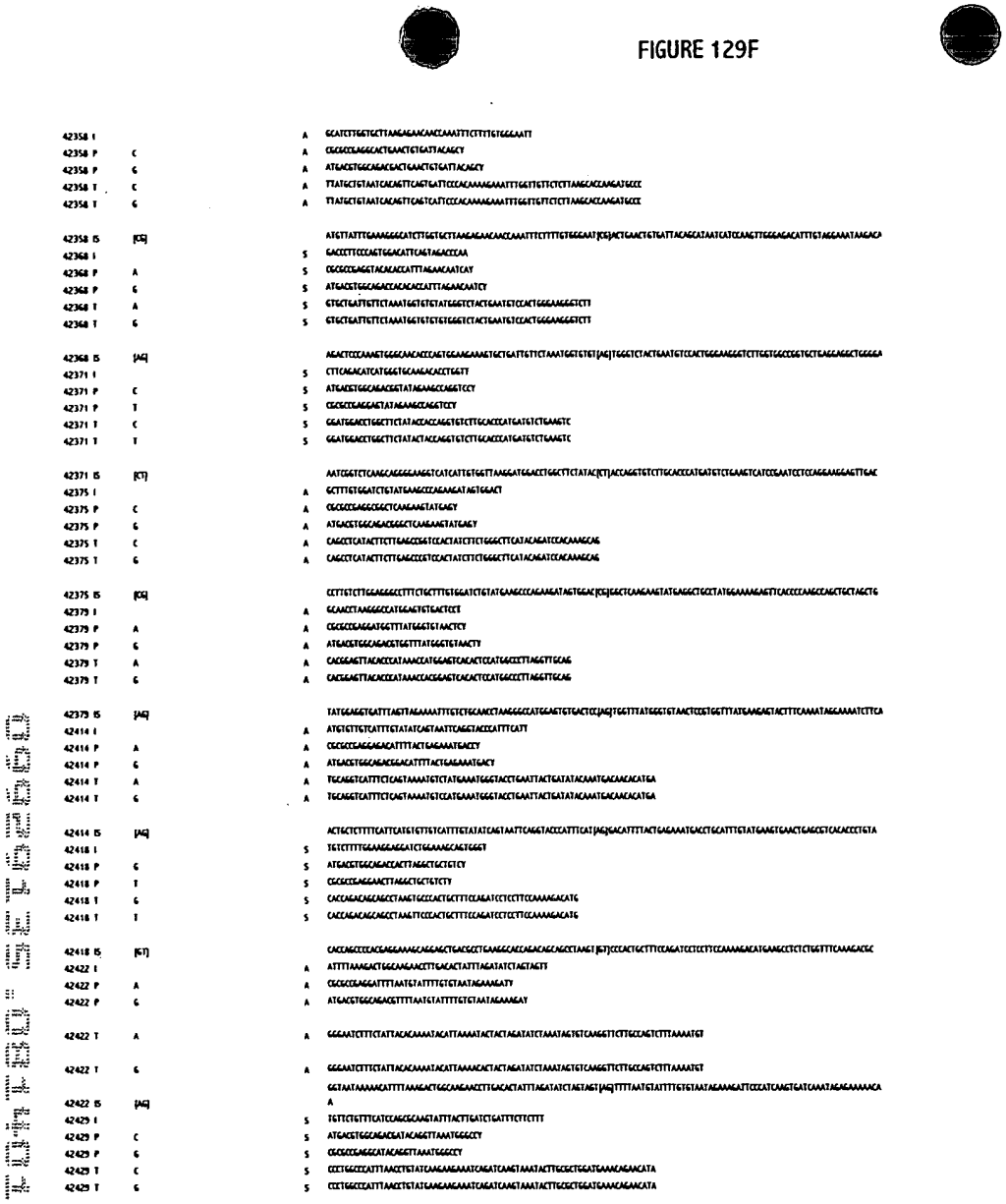
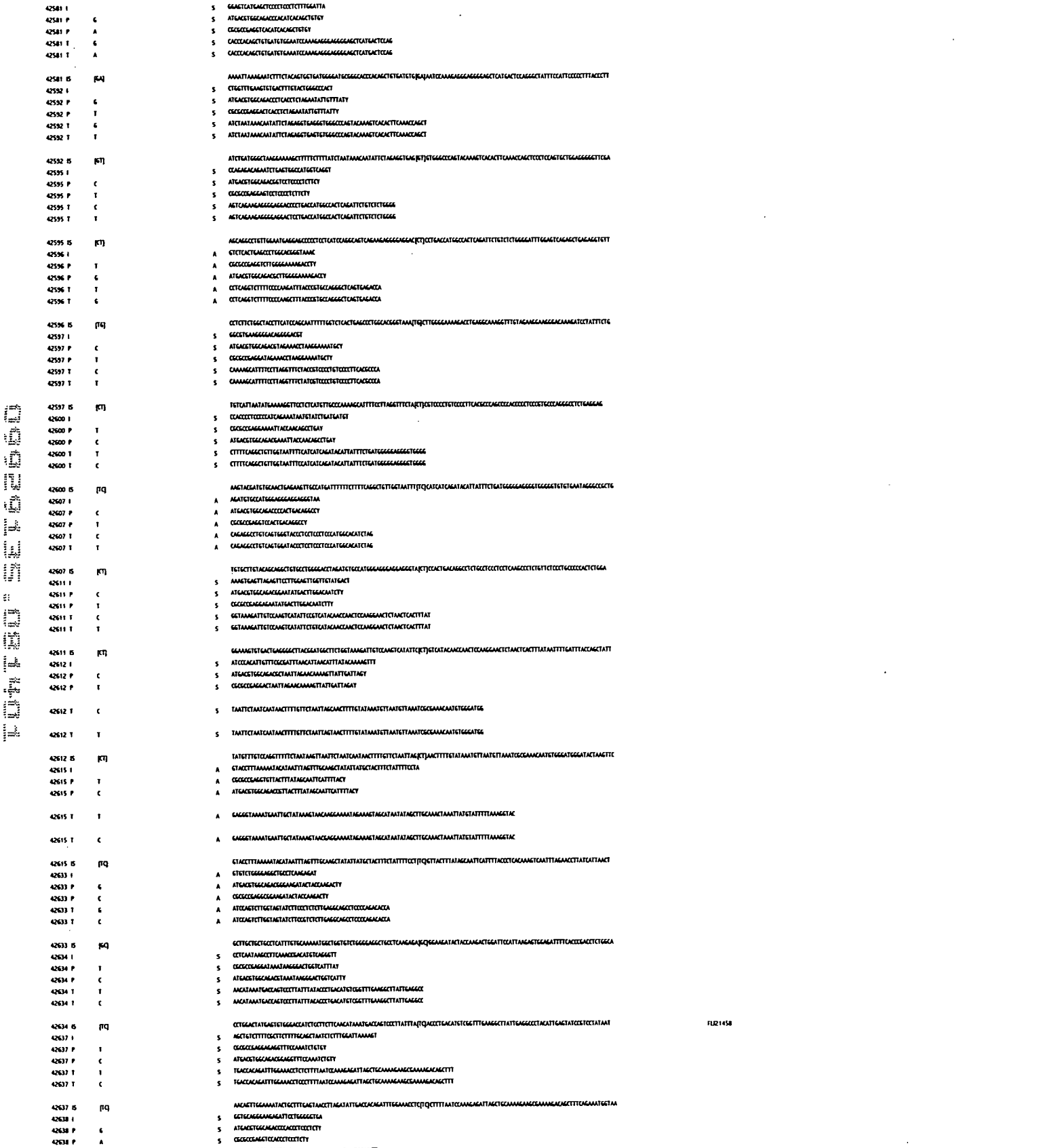
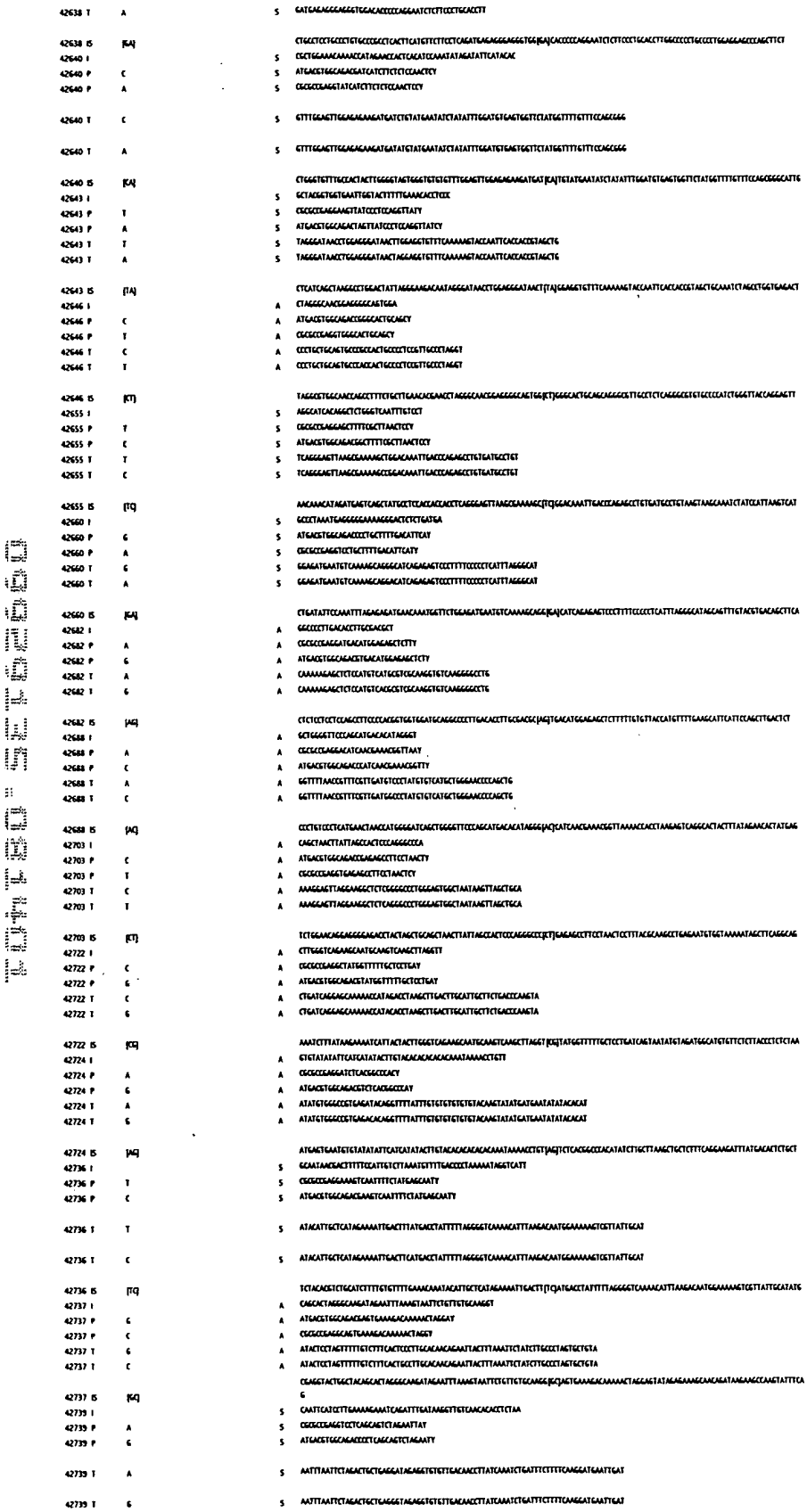
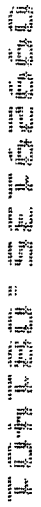


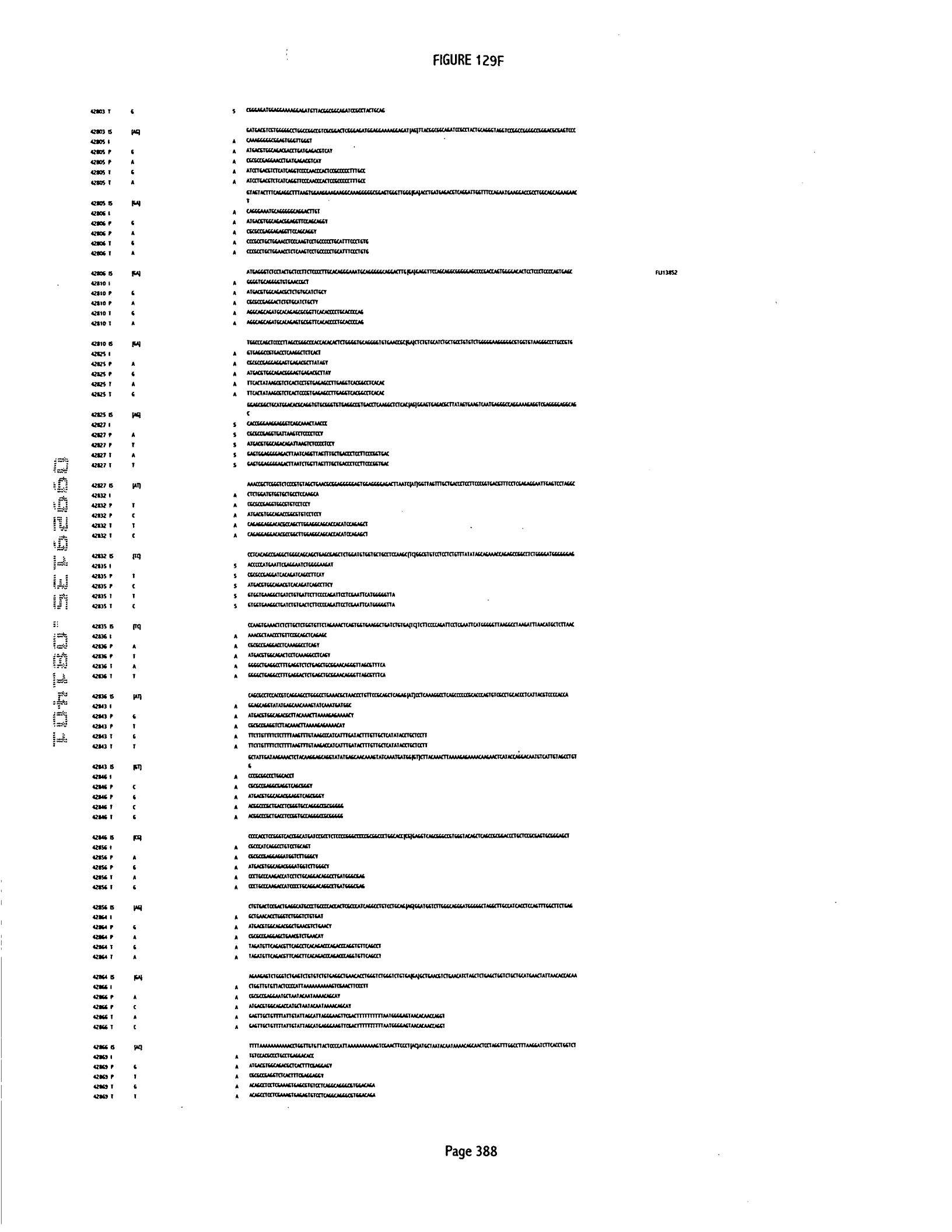


FIGURE 129F









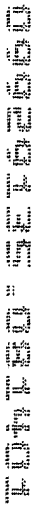
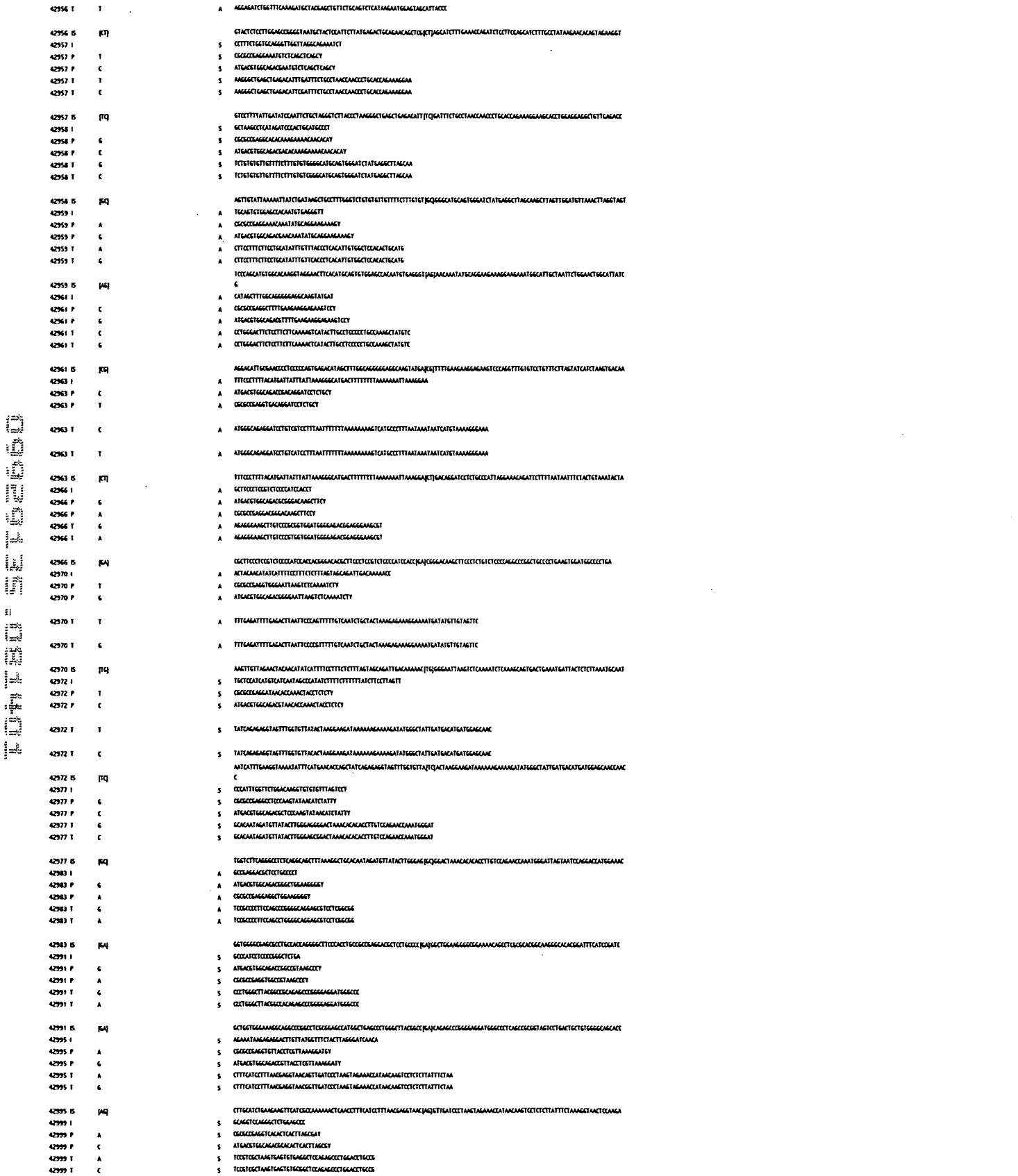
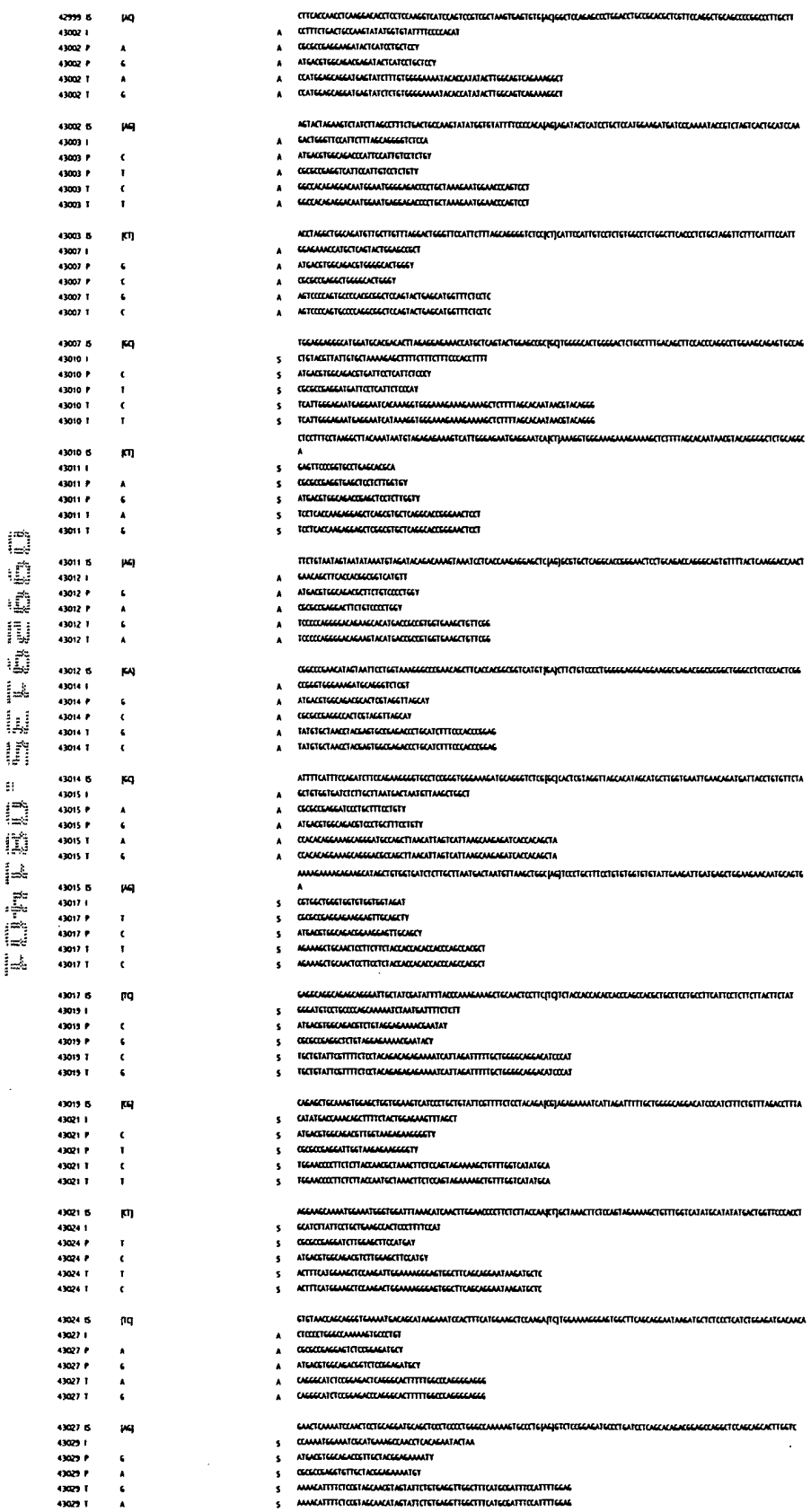
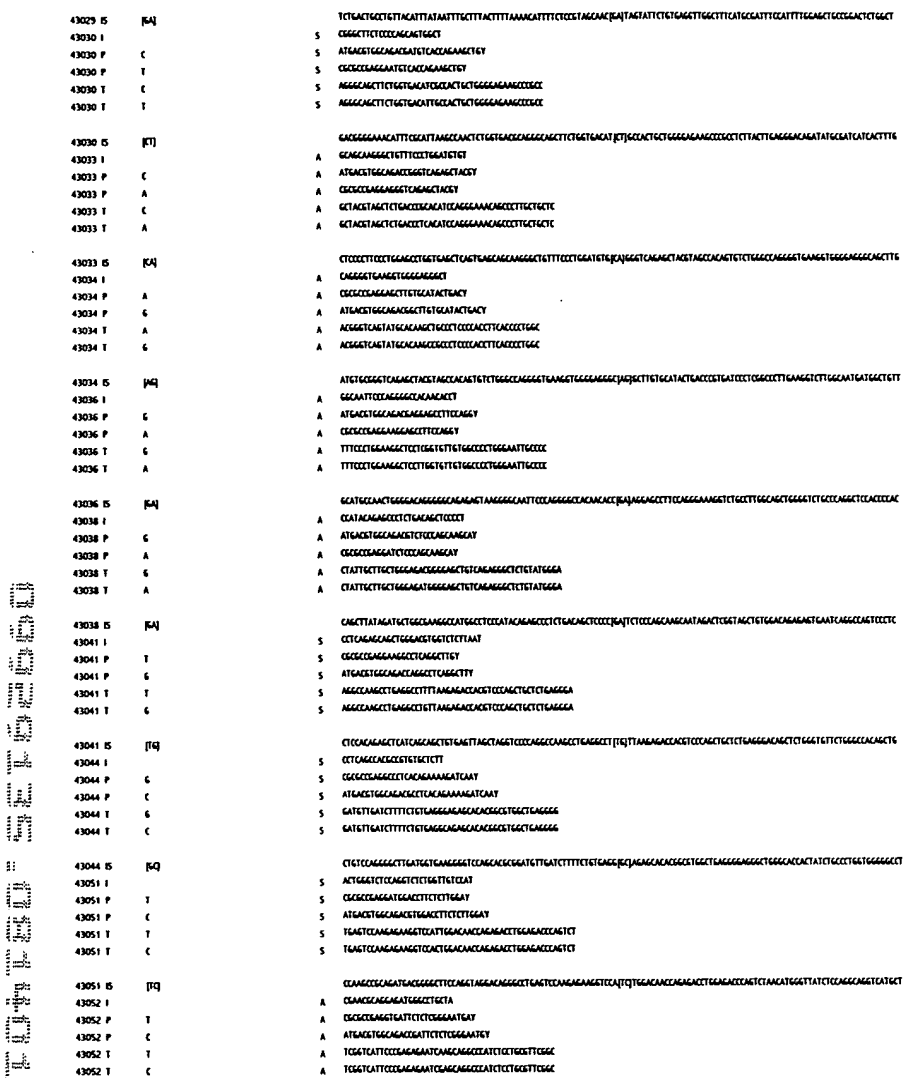


FIGURE 129F











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43090 IS  [G]   CTGAGCCAATGACAGCAGTCCCCACCTTAGAGATGCAACCCACTGCTTTCCAAACCCGCTGCCCCTACAGATCCACCCCAGCAGAAACCGTGGCTCCATCCTGCTTCCAAGAATGACCAGAA
43099 I         S CTTGAAGAATCATAAGCTCGGTTCTCAAGAGGAAT
43099 P   T     S CGCGCCGAGGACCAATATCCTGGACTTCAT
43099 P   C     S ATGACGTGGCAGACGCCAATATCCTGGACTTCY
43099 T   T     S ACCTTGAAGTCCAGGATATTGGTTCCCTCTTGAGAACCGAGCTTATGATTCTTCAAGTT
43099 T   C     S ACCTTGAAGTCCAGGATATTGGCTTCCCTCTTGAGAACCGAGCTTATGATTCTTCAAGTT

43099 IS  [T]   TCCACAGAGCACTGTTTGCCAGAAGGTTCCTAATAAGTACCTTGAAGTCCAGGATATTGG[T]TTCCCTCTTGAGAACCGAGCTTATGATTCTTCAAGTTCAAATTTACTACAATAGCTATAA
43105 I         S CCTCTCACCCTCAACAGGTCTGAAAGGTAGAGAACT
43105 P   T     S CGCGCCGAGGATGTGCTGTTACTCAGGTT
43105 P   C     S ATGACGTGGCAGACGTGTGCTGTTACTCAGGY
43105 T   T     S ATACACCTGAGTAACAGCACATGTTCTCTACCTTTCAGACCTGTTGAGGGTGAGAGGGA
43105 T   C     S ATACACCTGAGTAACAGCACACGTTCTCTACCTTTCAGACCTGTTGAGGGTGAGAGGGA

43105 IS  [T]   TTTTGTTTTCTTTTACAAATATGCCTAGATAATTCTCAGATACACCTGAGTAACAGCACA[T]CTGTTCTCTACCTTTCAGACCTGTTCAGGGTGAGAGGGAGAGCGTTAATGAAAGGCTGTGAG
43106 I         S TGTGAGAACAAGAACTGAGGGAAAGCACCTTCCCA
43106 P   G     S ATGACGTGGCAGACCCACCCCAGACGTTY
43106 P   A     S CGCGCCGAGGTCACCCCAGACGTTTTY
43106 T   G     S GATAAAAACGTCTGGGGTGGGGGAAGGTGCTTTCCCTCAGTTCTTGTTCTCACACA
43106 T   A     S GATAAAAACGTCTGGGGTGAGGGAAGGTGCTTTCCCTCAGTTCTTGTTCTCACACA

43106 IS  [A]   ACTGGCCAAATCACCACCTCAGGACTCCTTGTATGCATTCAGATAAAAACGTCTGGGGTG[A]GGAAGGTGCTTTCCCTCAGTTCTTGTTCTCACACATCTGTCATTTAGTTGGTCACAGTT
43111 I         A TGATTTCTCAGGTCAACAGAGTTAGTTGGACACATTCAGAAGGT
43111 P   G     A ATGACGTGGCAGACAGAAATTTCTCTATAGCCTATAAY
43111 P   C     A CGCGCCGAGGCAGAAATTTCTCTATAGCCTATAT
43111 T   G     A AATTTTATAGGCTATAGGAGAAATTTCTCCCTTCTGAATGTGTCCAACTAACTCTGTTCACCTGAGAAATCATA
43111 T   C     A AATTTTATAGGCTATAGGAGAAATTTCTGCCTTCTGAATGTGTCCAACTAACTCTGTTCACCTGAGAAATCATA

43111 IS  [G]   CCCAGAGCTGGGGAATATGATTTCTCAGGTGAACAGAGTTAGTTGGACACATTCAGAAGG[G]CAGAAATTTCTCCTATAGCCTATAAAATTAAAGGCAATAAATAAGCAAATGAAATGTGTT
                T
43113 I         S AATTTCTTCCAGAGCCCTTTTGCAGCCTCCAT
43113 P   T     S CGCGCCGAGGATTTCCCTTGTTCAGATCCT
43113 P   C     S ATGACGTGGCAGACGTTTCCCTTGTTCAGATCCY
43113 T   T     S CTGGGGATCTGAACAAGGGAAATTGGAGGCTGCAAAAGGGCTCTGGAAGAAATTCA
43113 T   C     S CTGGGGATCTGAACAAGGGAAACTGGAGGCTGCAAAAGGGCTCTGGAAGAAATTCA

43113 IS  [T]   GAGGCAGCACAGCTGACCTGCTTGCGTCTTGGTGTGAACTGGGGATCTGAACAAGGGAAA[T]CTGGAGGCTGCAAAAGGGCTCTGGAAGAAATTCAAAAGCAAATCTGTTTCCACATTTGC
43114 I         S ATGTGGGTTTTCTGTTTCCTTTTGGCCTACTCT
43114 P   G     S CGCGCCGAGGCCAAGAAAATATTGGTAAGCTATTY
43114 P   C     S ATGACGTGGCAGACGCAAGAAAATATTGGTAAGCTATY
43114 T   G     S ATTCAATAGCTTACCAATATTTTCTTGGGAGTAGGCCAAAAGGAAACAGAAAACCCACATTA
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43114 IS  [C]   AACAATCCTTGCTTATCAGAGGTGCATATCTAAATTCAATAGCTTACCAATATTTTCTTG[C]GAGTAGGCCAAAAGGAAACAGAAAACCCACATTAAAAAAAAAAATCTTTTCCCTCAACGT
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43116 P   A     A CGCGCCGAGGACCTCCCACAGTTCCY
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43120 I         A GACCTCAGGCCAGGCTTAGCACAAACTTTCATT
43120 P   A     A CGCGCCGAGGAAGAATGCTCTGTTTGCCY
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43126 P   C     S ATGACGTGGCAGACGATGAACTGCAGTTTATTCATTY
43126 T   T     S AATCGAATGAATAAACTGCAGTTCATTGTGCACTTAGCGTGGCATAGGGTTCAGTACATCCA
43126 T   C     S AATCGAATGAATAAACTGCAGTTCATCGTGCACTTACGCTGGCATAGGGTTCAGTACATCCA

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43134 I         A GCCTTTCCAAACATAACCTGTGAGAGGAGTTTCTGTAATCAGAAT
43134 P   A     A CGCGCCGAGGAACTGACTTGTTGGCTTGY
43134 P   G     A ATGACGTGGCAGACGACTGACTTGTTGGCTTY
43134 T   A     A GATACAAGCCAACAAGTCAGTTTTCTGATTACAGAAACTCCTCTCACAGGTTATGTTTGGAAAGGCTG
43134 T   G     A GATACAAGCCAACAAGTCAGTCTTCTGATTACAGAAACTCCTCTCACAGGTTATGTTTGGAAAGGCTG

43134 IS  [A]   AGTGGAATGGAGAACAGCCTTTCAAACATAACCTGTGAGAGGAGTTTCTGTAATCAGAA[A]CTGACTTGTTGGCTTGTATCCGAGAAGCCTTTCCTATCACCTTAGTATGATAGTTCTCT
43137 I         A TCCATTTTGGGCTTGAGGGGCACTACCT
43137 P   A     A CGCGCCGAGGATTTGTGTTCCTCTGCTAACY
43137 P   G     A ATGACGTGGCAGACGTTTGTGTTCCTCTGCTAAY
43137 T   A     A CCTTGTTAGCAGAGGAACACAAATGGTAGTGCCCCCTCAACCCCAAAATGGATG
43137 T   G     A CCTTGTTAGCAGAGGAACACAAACGGTAGTGCCCCCTCAACCCCAAAATGGATG

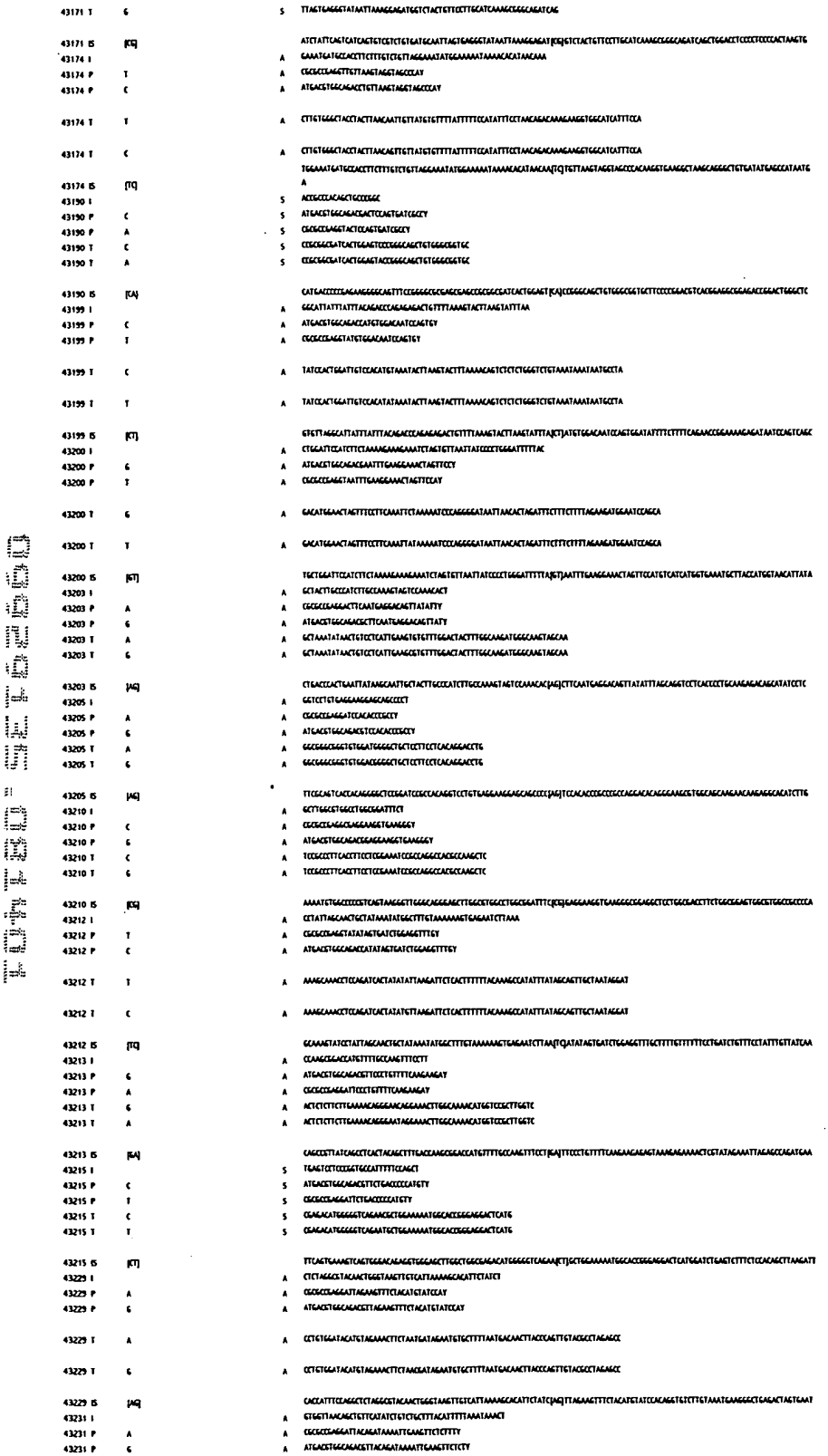
43137 IS  [A]   CCGGCAGACATTTTGTAGCGATCGCCTCTACATCCATTTTGGGGTTGAGGGGGCACTACC[A]GTTTGTGTTCCTCTGCTAACAGGGCGCAGAAACCCCACCTCAGGGCTGGGGTCGCCAAAAG
43153 I         A AAAACTACATTCTCCTTTTGATAATAAGCAAAAAAATACTTCTACATTTTTCAAATAGTAT
43153 P   C     A CGCGCCGAGGCCTGGTCGAAACTGTY
43153 P   G     A ATGACGTGGCAGACGCTGGTCGAAACTGTY

43153 T   C     A TGGAACAGTTCCGACCAGCTACTATTTGAAAAATGTAGAAGTATTTTTTTGCTTATTATCAAAGGAGAATGTAGTTTT

43153 T   G     A TGAACAGTTCCGACCAGCTACTATTTGAAAAATGTAGAAGTATTTTTTTGCTTATTATCAAAGGAGAATGTAGTTTT

43153 IS  [C]   AAAACTACATTCTCCTTTTGATAATAAGCAAAAAAATACTTCTACATTTTTCAAATAGTA[C]CTGCTGGAACTGTTCCAAACCCAGAGAAAAAAGCAATAAACACTGAAATCCCCTGGCGG
43157 I         S TGAGCTGAGGTGGTAAGTAGAACAGCGAATGAATGTCAT
43157 P   C     S ATGACGTGGCAGACGCCTTGGGAGAAACTTAGY
43157 P   G     S CGCGCCGAGGCCTTGGGAGAAACTTAGY
43157 T   C     S AAAGCTAAGTTTCTCCCAAGGCTGACATTCATTCCCTGTTCTACTTACCACCTCAGCTCATA
43157 T   G     S AAAGCTAAGTTTCTCCCAAGGGTGACATTCATTCCCTGTTCTACTTACCACCTCAGCTCATA

43157 IS  [C]   TAATCAAATGGTAGGATAGGATATTAATCACTGTAGCTTAAAGCTAAGTTTCTCCCAAGG[C]GTGACATTCATTCCCTGTTCTACTTACCACCTCAGCTCATAGCAGACACTTTTGTCAGAG
43171 I         S GATCTGCCCGCTTTGATGCAAGGAACAGTAGACT
43171 P   C     S ATGACGTGGCAGACGATCTCGTTTAATTATACCCTCAY
43171 P   G     S CGCGCCGAGGCATCTCGTTTAATTATACCCTCAY
43171 T   C     S TTAGTCAGGGTATAATTAAAGCAGATCGTCTACTGTTCGTTCGCATCAAAGCGGGCAGATCAG
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Filed: June 30, 2000

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43232 I                    S  GGTGTTCATGGATGCATACACGTAAAAATAAAATTGAATAGAATACCA
43232 P  G                 S  ATGACGTGGCAGACCAGCAGATTTGAGAATAGTGGY
43232 P  A                 S  CGCGCCGAGGTAGCAGATTTGAGAATAGTGGY
43232 T  G                 S  GCAACCACTATTCTCAAATCTGCTGGGTATTCTATTCAATTTTATTTTTACGTGTATGCATCCATGAACACCAT
43232 T  A                 S  GCAACCACTATTCTCAAATCTGCTAGGTATTCTATTCAATTTTATTTTTACGTGTATGCATCCATGAACACCAT

43232 IS   [GA]                TGAAGTTCTCTTTTTGTCCCTCACTCCCTGCCAAAGGCAACCACTATTCTCAAATCTGCT[R]AGGCTATTCTATTCAATTTTATTTTTACGTGTATGCATCCATGAACACCATGTAGTATGTTT
43242 I                    A  GAAGAGAATGGCTGCCAGTATTTCTCTAGTGGGGACT
43242 P  A                 A  CGCGCCGAGGAGTACAGAGAGGAGTTTACTACTY
43242 P  G                 A  ATGACGTGGCAGACGCTACAGAGAGGATTTACTACTY
43242 T  A                 A  TCACAGTAGTAAATCCTCTCTGTACTGTCCCCACTAGAGAAATACTGGCAGCCATTCTCTTCCT
43242 T  G                 A  TCACAGTAGTAAATCCTCTCTGTACCCTCCCCACTAGAGAAATACTGGCAGCCATTCTCTTCCT

43242 IS   [AG]                GTAAATTTCCTAGGCAATTTCTAGGAAGAGAATGGCTGCCAGTATTTCTCTAGTGGGGAC[AG]GTACAGAGAGGATTTACTACTGTGACATCTGCCCCTGGGCTGGTCATTGTCAGATCATCC
43248 I                    S  ACTGGTTTATTGGTGTCTTCCACTGTAACTGTATGTGTGTGTT
43248 P  T                 S  CGCGCCGAGGAATTCACATAGACAGCTATTGATATAT
43248 P  C                 S  ATGACGTGGCAGACGTTCACATAGACAGCTATTGATY
43248 T  T                 S  TATGTATATCAATACCTGTCTATGTGAATACACACACATACAGTTACAGTGGAAGACACCAATAAACCAGTGC
43248 T  C                 S  TATGTATATCAATACCTGTCTATGTGAACACACACACATACAGTTACAGTGGAAGACACCAATAAACCAGTGC

43248 IS   [TC]                ATTCATATCACAACTTCTGATCATCAACTACATATGTATATCAATACCTGTCTATGTGAA[T]CACACACACATACAGTTACAGTGGAAGACACCAATAAACCAGTGCACCTGCTGATGGATCA
43254 I                    S  GGGCCTGCTTCAGAGTCACTTGTATGAGAAGATCCT
43254 P  T                 S  CGCGCCGAGGAAAACATGTGGACGATGGY
43254 P  C                 S  ATGACGTGGCAGACGAAACATGTGGACGATGGY
43254 T  T                 S  CACACCATGGTCCACATGTTTGGATCTCTCATACAAGTGACTCTGAAGCAGGCCCTC
43254 T  C                 S  CACACCATGGTCCACATGTTCGGATCTCTCATACAAGTGACTCTGAAGCAGGCCCTC

43254 IS   [TC]                CCCTGCAGCAAAAAGGCTATGTCAGACCCTCCCCACATGCACACCATCGTCCACATGTTT[T]CTGGATCTCTCATACAAGTGACTCTGAAGCAGGCCCTCACCACTGAAACTCTTCCAGACCC
43258 I                    A  CTCCCAACAGCACTAGGTATGTCAGGGGATTCAT
43258 P  A                 A  CGCGCCGAGGAATGAAAATGCCTGCCCY
43258 P  G                 A  ATGACGTGGCAGACGATGAAAATGCCTGCCCY
43258 T  A                 A  TTGGGGGCAGGCATTTTCATTTGAATCCCCTCACATACCTAGTGCTGTTGGGAGAA
43258 T  G                 A  TTGGGGGCAGGCATTTTCATCTGAATCCCCTCACATACCTAGTGCTGTTGGGAGAA

43258 IS   [AG]                GATGGAAAGCAAGAAGGTTAAATCATTCTCCCCAACAGCACTAGGTATGTCAGGGGATTTCA[AG]ATGAAAATGCCTGCCCCCAAACCAGGCTCAGGCCCCGCTCTCCCAGCACCTACTCCGGCA
43263 I                    S  AGAACCACTCCAACTTCCTCATACGTTAAATACTTTAAAGGAGTGGATA
43263 P  G                 S  ATGACGTGGCAGACAGACAGACACACTAAAACAGTY
43263 P  A                 S  CGCGCCGAGGTAGACAGACACACTAAAACAGTCY
43263 T  G                 S  CTTTGACTGTTTTAGTGTGTCTGATCCACTCCTTTAAAGTATTTAAACGTATGAGGAAGTTGGAGTGGTTCTTA
43263 T  A                 S  CTTTGACTGTTTTAGTGTGTCTAATCCACTCCTTTAAAGTATTTAAACGTATGAGGAAGTTGGAGTGGTTCTTA

43263 IS   [GA]                TTAAGTTTCTCCAAGATGGGTGGGAAATCTGTAATTGCCTTTGACTGTTTTAGTGTGTCT[R]ATCCACTCCTTTAAAGTATTTAAACGTATGAGGAAGTTGGAGTGGTTCTTAAAAAGCAGA
43267 I                    A  CTCTGGGAGTAGTTCGACCCTCACAGCCTCT
43267 P  G                 A  ATGACGTGGCAGACGTAAAAGCGGTGTGACY
43267 P  A                 A  CGCGCCGAGGATAAAAGCGGTGTGACY
43267 T  G                 A  AACTGTCACACCGCCTTTTACGAGGCTGTGAGGGTCGAACTACTCCCAGAGCT
43267 T  A                 A  AACTGTCACACCGCCTTTTATGAGGCTGTGAGGGTCGAACTACTCCCAGAGCT

43267 IS   [GA]                AACTTGGGGTCCCCAGGGAGAAACCCCTAGCTCTGGGAGTAGTTCGACCCTCACAGCCT[R]ATAAAAGCGGTGTGACAGTTTTGTCACGGGCAGAAGGAAGAAACGACGTCGTAGCCAGTA
43268 I                    A  CCTCGCCCCCTCCAGCCCA
43268 P  C                 A  ATGACGTGGCAGACCTGTGGTTCCTTTGCCY
43268 P  T                 A  CGCGCCGAGGTTGTGGTTCCTTTGCCY
43268 T  C                 A  ACAGGGCAAGGAACCACAGGGGCGTGGAGGGGCGAGGTT
43268 T  T                 A  ACAGGGCAAGGAACCACAGGGGCGTGAAGGGGCGAGGTT

43268 IS   [CT]                GAGCCCTTCCCACTGCCTGCTCCTCGATCTTTGCCTGAAAACCTCGCCCCCTCCACGCCC[CT]TGTGGTTCCTTTGCCCTGTGCAACTGCTCCAGGAAATAGTTTGTGGGGCACTCACTGTGC
43269 I                    S  CTTTGAGGGGTATCTTTTGAGGGAGTGGCAGAAAGTT
43269 P  T                 S  CGCGCCGAGGAACTTTCTCCTTTGGTATCTGY
43269 P  G                 S  ATGACGTGGCAGACCACTTTCTCCTTTGGTATCTY
43269 T  T                 S  ACTACAGATACCAAAGGAGAAAGTTACTTTCTGCCACTCCCTCAAAGATACCCCTCAAAGCC
43269 T  G                 S  ACTACAGATACCAAAGGAGAAAGTGACTTTCTGCCACTCCCTCAAAGATACCCCTCAAAGCC

43269 IS   [TC]                TTGCTTAGAAACACGAAGAACAAGCCCACCCCAAATACTACAGATACCAAAGGAGAAAGT[TC]ACTTTCTGCCACTCCCTCAAAGATACCCCTCAAAGCCACATAAAATACTAAACACAAAA
43272 I                    S  GCCTTCAATAAGGAAGTGTGTCCTTGGCAGGATAA
43272 P  G                 S  ATGACGTGGCAGACAGTGAGGAGAAAATTATTAGGTY
43272 P  A                 S  CGCGCCGAGGTAGTGAGGAGAAAATTATTAGGTTY
43272 T  G                 S  CATAAACCTAATAATTTTCTCCTCACTGTATCCTGCCAAGGACACACCTCCTTATTGAAGGCTC
43272 T  A                 S  CATAAACCTAATAATTTTCTCCTCACTATATCCTGCCAAGGACACACCTCCTTATTGAAGGCTC

43272 IS   [GA]                CACTTACACAGCAACTGATTATAGTTCCGGCTTCATAAACCTAATAATTTTCTCCTCACT[R]ATCCTGCCAAGGACACACCTCCTTATTGAAGGCTCAACGTTTCAAGAAATAATAGGTGT
43274 I                    A  GATTCCCAGGCGGCAGGTCTGGGC
43274 P  G                 A  ATGACGTGGCAGACGCTGAGCACATGCTGY
43274 P  T                 A  CGCGCCGAGGTCTGAGCACATGCTGTY
43274 T  G                 A  CCAAACAGCATGTGCTCAGCCCCAGACCTGCCCCCTGGGAATCAG
43274 T  T                 A  CCAAACAGCATGTGCTCAGACCCAGACCTGCCCCTGGGAATCAG

43274 IS   [GT]                CTGCAGGCGCTCAGTGCCTTGGGGAAGAAGGAATCCTGATTCCCAGGCGCGCAGGTCTGGG[GT]CTGAGCACATGCTGTTTGGGGGATCACCTGCACGCCTGGGCAGACAGAAATGGTTAAAAA
43275 I                    A  ACACAGACCCTGGCAGTGACTAATCACCTTTCAAACT
43275 P  A                 A  CGCGCCGAGGATACAGACATACTTGTCAACAY
43275 P  G                 A  ATGACGTGGCAGACGCTACAAGCATACTTGTCAACAY
43275 T  A                 A  CATTTGTTGACAAGTATGCTTGTATGTTTGAAAGGTGATTAGTCACTGCCAGGGTCTGTGTGT
43275 T  G                 A  CATTTGTTGACAAGTATGCTTGTACGTTTGAAAGGTGATTAGTCACTGCCAGGGTCTGTGTGT

43275 IS   [AG]                GTCAGGTAATTATTTGGCCCCGACACACAGACCCTGGCAGTGACTAATCACCTTTCAAAC[AG]TACAAGCATACTTGTCAACAAATGCCAGTAAGTGTTCAACCAATCTCATGTTTAAAATGG
43277 I                    A  AGAGAAAGAGTAGTACAGCAGCTGCCCAGCT
43277 P  G                 A  ATGACGTGGCAGACGAGGCAGCTCAGCCY
43277 P  A                 A  CGCGCCGAGGAAGGCAGCTCAGCCY
43277 T  G                 A  CTGGGGCTGAGCTGCCTCGCTGGGCAGCTGCTGTACTACTCTTTCCTCTGG
43277 T  A                 A  CTGGGGCTGAGCTGCCTTGCTGGGCAGCTGCTGTACTACTCTTTCCTCTGG

43277 IS   [GA]                CTGAATGGGCAAGACGAACACTACAGCTCCAAAGCAAAAGAGTAGTACAGCAGCTGCCCAGC[R]AGGCAGCTCAGCCCCAGCCCCAACCAGGCCCGTCCTGGACAGTTTCCTAAGCAATGTAGCT
43278 I                    S  GTGTGTCATCAGGTCCTAGAAGCTGTGGCAGAT
43278 P  T                 S  CGCGCCGAGGACCGACACTGTTGGAGY
43278 P  C                 S  ATGACGTGGCAGACGCCGACACTGTTGGAY
43278 T  T                 S  CCTTCTCCAACAGTGTGGTTCTGCCACAGCTTCTAGGACCTGATGACACACTG
43278 T  C                 S  CCTTCTCCAACAGTGTCGGCTCTGCCACAGCTTCTAGGACCTGATGACACACTG

43278 IS   [TC]                TCACCCAGCTGGGGCTACGGCCCACCCCTGCTGACACATCTCCTTCTCCAACAGTGTGG[T]CTCTGCCACAGCTTCTAGGACCTGATGACACACTGCAACTTCATGCTGATACTGTCACCTT
43279 I                    A  GTGCTGTGCAATCTTTCTTGGCATGGCCTT
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FIGURE 129F





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43345 P    C      S  ATGACGTGGCAGACGTCTTCTGGTTTGGGTTTY
43345 T    T      S  GCACCAAACCCAAACCAGAAGATAGCGCCTAAGAAAGGGATGTCTTCCCAGAAGTGA
43345 T    C      S  GCACCAAACCCAAACCAGAAGACAGCGCCTAAGAAAGGGATGTCTTCCCAGAAGTGA

43345 IS   [TC]       AGGGAATTGGACTTACCCCAAAAACATTGCCAACTCCTGCACCAAACCCAAACCAGAAGA[TC]AGCGCCTAAGAAAGGGATGTCTTCCCAGAAGTGATCTTGTTTATATAAGACTCTCCCAGA
43350 I              S  CTCATCTGGGAAGTCCAGCCTCACAGAAGACAT
43350 P    T      S  CGCGCCGAGGACAGTTTAAATTCGACAACACY
43350 P    C      S  ATGACGTGGCAGACGCAGTTTAAATTCGACAACAY
43350 T    T      S  ATGAGTGTTGTCGAATTTAAACTGTTGTCTTCTGTGAGGCTGGACTTCCCAGATGAGAG
43350 T    C      S  ATGAGTGTTGTCGAATTTAAACTGCTGTCTTCTGTGAGGCTGGACTTCCCAGATGAGAG

43350 IS   [TC]       ATCTCATGGCAAACAGCAATGCAAGCAAAATGAAGCATGAGTGTTGTCGAATTTAAACTG[TC]TGTCTTCTGTGAGGCTGGACTTCCCAGATGAGAGTGAAGCAGCAGTATACAATTTCTTTTC
43353 I              A  GTGGAATGGATGTTCTTGTTGATACAGGCGTTGGTTC
43353 P    C      A  ATGACGTGGCAGACACTCCCACATCCCTY
43353 P    T      A  CGCGCCGAGGTACTCCCACATCCCTGY
43353 T    C      A  CTTACAGGGATGTGGGAGTGGAACCAACGCCTGTATCAACAAGAACATCCATTCCACTT
43353 T    T      A  CTTACAGGGATGTGGGAGTAGAACCAACGCCTGTATCAACAAGAACATCCATTCCACTT

43353 IS   [CT]       ACCCAACAGACTGGGAGTTGGAAGTGGAATGGATGTTCTTGTTGATACAGGCGTTGGTTC[CT]ACTCCCACATCCCTGTAAGCCTGGGGTGGGAGAAATGTCCCCTGGGCAGTGTTTCCATCT
43357 I              A  GCTCCTTGAACCTCATCTCCCTGGTTATCCCCT
43357 P    G      A  ATGACGTGGCAGACGGCAGCCTGAGATGGY
43357 P    A      A  CGCGCCGAGGAGCAGCCTGAGATGGY
43357 T    G      A  CCGGCCATCTCAGGCTGCCGGGGATAACCAGGGAGATGAGGTCAAGGAGCAG
43357 T    A      A  CCGGCCATCTCAGGCTGCTGGGGATAACCAGGGAGATGAGGTCAAGGAGCAG

43357 IS   [GA]       ATCTTGAGAGGTGCCTCCAGAGAATGTCTGCTCCTTGACCTCATCTCCCTGGTTATCCCC[GA]GCAGCCTGAGATGGCCGCTATCCTTAGAAGAGGACTTTTTCTCCTTTGCAGACTTGCGC                    TRAP150
43358 I              A  TGTATGCTTGCCGGTAATTCTGCCAATTTGAGCGT
43358 P    G      A  ATGACGTGGCAGACGCATCACAGAAGATCAGGY
43358 P    A      A  CGCGCCGAGGACATCACAGAAGATCAGGY
43358 T    G      A  AAGGCCTGATCTTCTGTGATGCCCCAGTGCCTAAATAATCTGCTCTAGCAACACTCCCT
43358 T    A      A  AAGGCCTGATCTTCTGTGATGTCCCCAGTGCCTAAATAATCTGCTCTAGCAACACTCCCT

43358 IS   [GA]       GGATCTTGAACGGCCTCGACAGGAACTGTATGCTTGCCCGTAATTCTGCCAATTTGAGCG[GA]TAGTTTCCATAGCCTCTCGGTTATATTGGCCCCATGGATAAAAGCCTCTGTTACGCCCA                    TRAP150
43359 I              A  GGAGTGTTGCTAGAGCAGATTATTTAGGCACTGGGGT
43359 P    G      A  ATGACGTGGCAGACGCATCACAGAAGATCAGGY
43359 P    A      A  CGCGCCGAGGACATCACAGAAGATCAGGY
43359 T    G      A  AAGGCCTGATCTTCTGTGATGCCCCAGTGCCTAAATAATCTGCTCTAGCAACACTCCCT
43359 T    A      A  AAGGCCTGATCTTCTGTGATGTCCCCAGTGCCTAAATAATCTGCTCTAGCAACACTCCCT

43359 IS   [GA]       GACCCAGGATTGGCTGGACTGAAGGGAGTGTTGCTAGAGCAGATTATTTAGGCACTGGGG[GA]CATCACAGAAGATCAGGCTTCCTCCTCAGTAGAAGGAGGCTGAGCCTCAGGGTCCTCTG
43362 I              A  ACACTGCCCAGGCCATCAAGAAATTAAGCAAGCT
43362 P    G      A  ATGACGTGGCAGACGACACAGTACCACATCTY
43362 P    A      A  CGCGCCGAGGAACACCAGTACCACATCTY
43362 T    G      A  GCACAGATGTGCTACTGGTGTCGCTTGCTTAATTTCTTGATGGCCTCCCCAGTGTAT
43362 T    A      A  GCACAGATGTGCTACTGGTGTTGCTTGCTTAATTTCTTGATGGCCTCCCCAGTGTAT

43362 IS   [GA]       CCATGTGGGAAGCAGAATGGTCTGAAATACACTGGGGAGGCCATCAAGAAATTAAGCAAGC[GA]ACACCAGTACCACATCTGTGCCTGTGATCCCAAAGAGAGGCTGGACAAGGCCCGCACACCT
43365 I              S  CGGACTGAAGGTGCCACAAGCAGTGTCTT
43365 P    G      S  ATGACGTGGCAGACCTTTCCTAGTCTGTCTTCACY
43365 P    T      S  CGCGCCGAGGATTTCCTAGTCTGTCTTCACTY
43365 T    G      S  GGAAAGTGAAAGACAGACTAGGAAAGAGACACTGCTTGTGGCACCTTCAGTCCCAG
43365 T    T      S  GGAAAGTGAAAGACAGACTAGGAAATAGACACTGCTTGTGGCACCTTCAGTCCCAG

43365 IS   [GT]       AGGAGAGAGCCGAGACATCAGGCTGGTATAGGGAGTGGAAAGTGAAGACAGACTAGGAAA[GT]AGACACTGCTTGTGGCACCTTCAGTCCCAGGCTCAAAACACCCTCATCTACAGACTGAAT
43371 I              S  CTCCCACTGGCCCACTCACCTTTCTGAAT
43371 P    T      S  CGCGCCGAGGAGACCTGCACTCTCCY
43371 P    C      S  ATGACGTGGCAGACGCACCGACTTCTCTCCY
43371 T    T      S  CCTGGGAGAGTGCAGGTCTTTCAGAAAGGTGAGTGGGCCAGTGGGAGCA
43371 T    C      S  CCTGGGAGAGTGCAGGTCCTTCAGAAAGGTGAGTGGGCCAGTGGGAGCA

43371 IS   [TC]       GGCACAAGCGGTCAACAGCTGGCATCCTCTGCCCACGGTATACCTGGGAGAGTGCAGGTC[TC]TTCAGAAAGGTGAGTGGGCCAGTGGGAGCACCCCCCACCCAGCAGTCGACCTGACCACAC
43373 I              A  TCAAGGACACACATGCACACGGTTTCACCAT
43373 P    C      A  CGCGCCGAGGCCACGGCTTCTCTCCY
43373 P    G      A  ATGACGTGGCAGACGCACGACTTCTCTCCY
43373 T    C      A  GGCTGGAGAGAAGCCGTGCTGGTGAAACCGTGTGCATGTGTGTCTTGAGC
43373 T    G      A  GGCTGGAGAGAAGCCGTGCTGGTGAAACCGTGTGCATGTGTGTCTTGAGC

43373 IS   [CG]       GCAGCTGTGTGGACATGTGTGCAGCCTGGCTCAAGGACACACATGCACACAGGTTTCACCA[CG]CACGGCTTCTCTCCAGCCTTCTCTTTATTTTCTCCAGGGCACCAGCCCCTCTGCCAGCCT
43377 I              S  AAAACCATGCCTACAAACTCAGCCTCCACTTACTCAC
43377 P    A      S  CGCGCCGAGGTTTGTCTGGTACCTTTATTCATY
43377 P    T      S  ATGACGTGGCAGACATTGTCTGGTACCTTTATTCATY
43377 T    A      S  TGCCATGAATAAAGGTACCAGACAAATGAGTAAGTGGAGGCTGAGTTGTAGGCATGGTTTTGT
43377 T    T      S  TGCCATGAATAAAGGTACCAGACAATTGAGTAAGTGGAGGCTGAGTTGTAGGCATGGTTTTGT

43377 IS   [AT]       CCCATCCAGGGCTACCAATCTGTTTATGTAATTTGTGCCATGAATAAAGGTACCAGACAA[AT]TGAGTAAGTGGAGGCTGAGTTGTAGGCATGGTTTTGTGCCCCAATAATGGGCTGCACAGG
43381 I              A  GCGGGACACCACACGCTCGTGT
43381 P    C      A  CGCGCCGAGGCGAGGGAACATAGGAGY
43381 P    G      A  ATGACGTGGCAGACGGAGGGGACATAGGAGY
43381 T    C      A  AGGTCTCCTATGTCCCCTCGCACGAGCGTGTGGTGGTCCCCGCC
43381 T    G      A  AGGTCTCCTATGTCCCCTCCCACGAGCGTGTGGTGGTCCCCGCC

43381 IS   [CG]       CACTGTGAGATGCAAAGACTGCCAGGCAGGCCCCAGGCGCGGCACCACCACACGCTCGTG[CG]CAGGGCACATAGGAGACCTGGGGCTGAGATGACTCCTAGGTCACCACACGCAGAGGACCC
43382 I              A  CTGTGATGCAAACAACAGCATGAGGCCAGCT
43382 P    G      A  ATGACGTGGCAGACGAGTCAGTAACTGAGGTCCY
43382 P    A      A  CGCGCCGAGGAAGTCAGTAACTGAGGTCCY
43382 T    G      A  TTCAGGACCTCAGTTACTGACTCGCTGGCCTCATGCTGTTGTTTCCATCACAGCC
43382 T    A      A  TTCAGGACCTCAGTTACTGACTTGCTGGCCTCATGCTGTTGTTTCCATCACAGCC

43382 IS   [GA]       CGGTAGAGCCGAGTGTCACCCGGAGAGAGGCTGTGATGGAAACAACAGCATCAAGCCAGC[GA]AGTCAGTAACTGAGGTCCTGAATGCCAGCAGGTGCCCAAGCCCACCCTGGGATGCCCTCG
43385 I              S  GACTTGGTTTCAATATTATGTGATACATAGAAATCAAACCCAAGATTAA
43385 P    G      S  ATGACGTGGCAGACCGGGTGGTTTATCTTTCTTY
43385 P    A      S  CGCGCCGAGGTGGGTGGTTATCTTTCTTTY

43389 T    G      S  AAGAAAAAGAAAGATAAACCACCCGTAATCTTGGGTTTGATTTCCTATGTATCACATAATATTGAAACCAAGTCTA

43389 T    A      S  AAGAAAAAGAAAGATAAACCACCCATAATCTTGGGTTTGATTTCCTATGTATCACATAATATTGAAACCAAGTCTA

43389 IS   [GA]       GGAGGAAACATTCGCCTATAAAACGAAACAATAGAAAAGAAAAAGAAAGATAAACCACCC[GA]TAATCTTGGGTTTGATTTCCTATGTATCACATAATATTGAAACCAAGTCTAAGACTTTA
                       T
43391 I              A  GACCCTGGCTTGCCCATCAGTCTGTCTT
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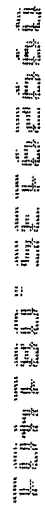
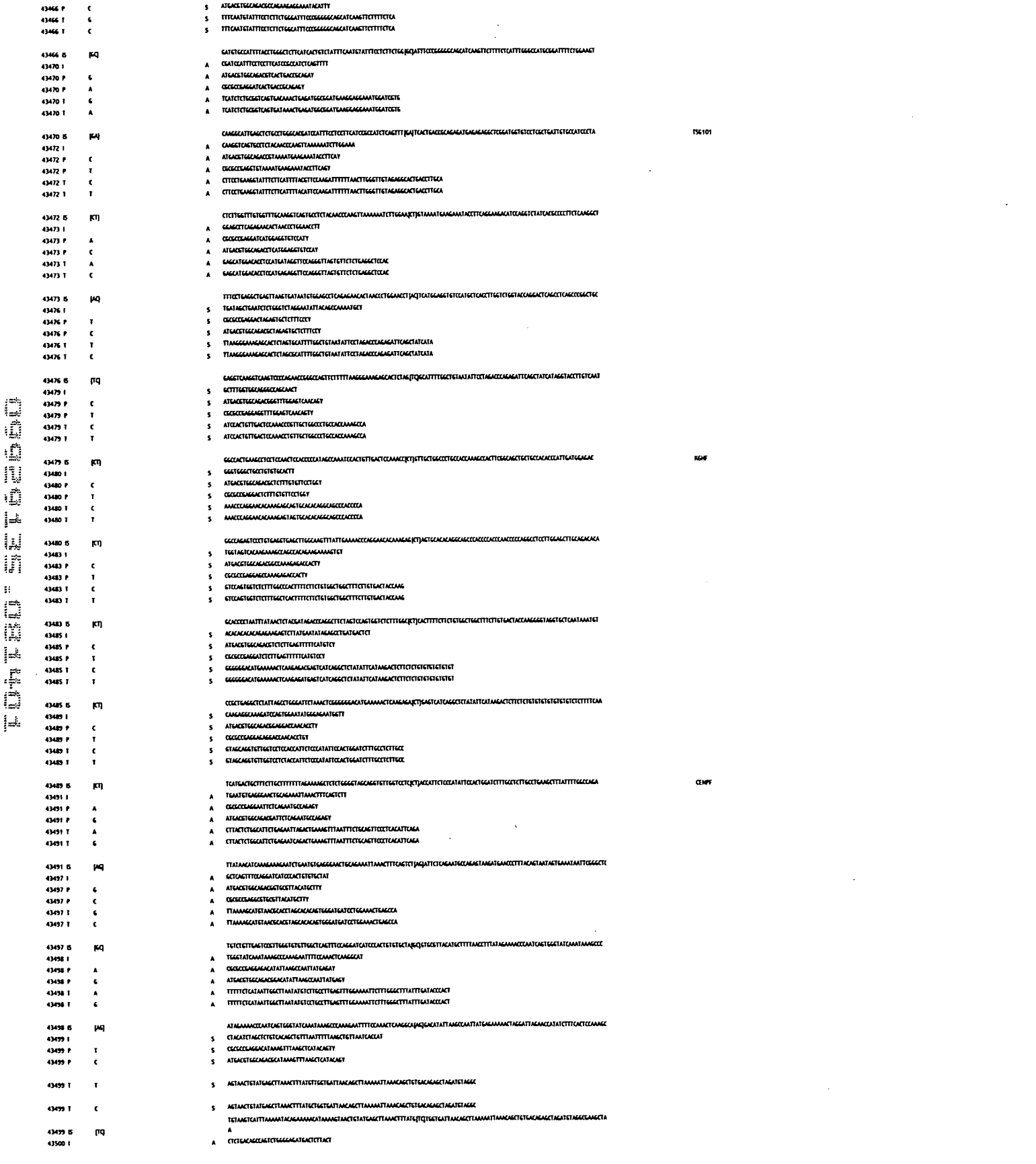


FIGURE 129F



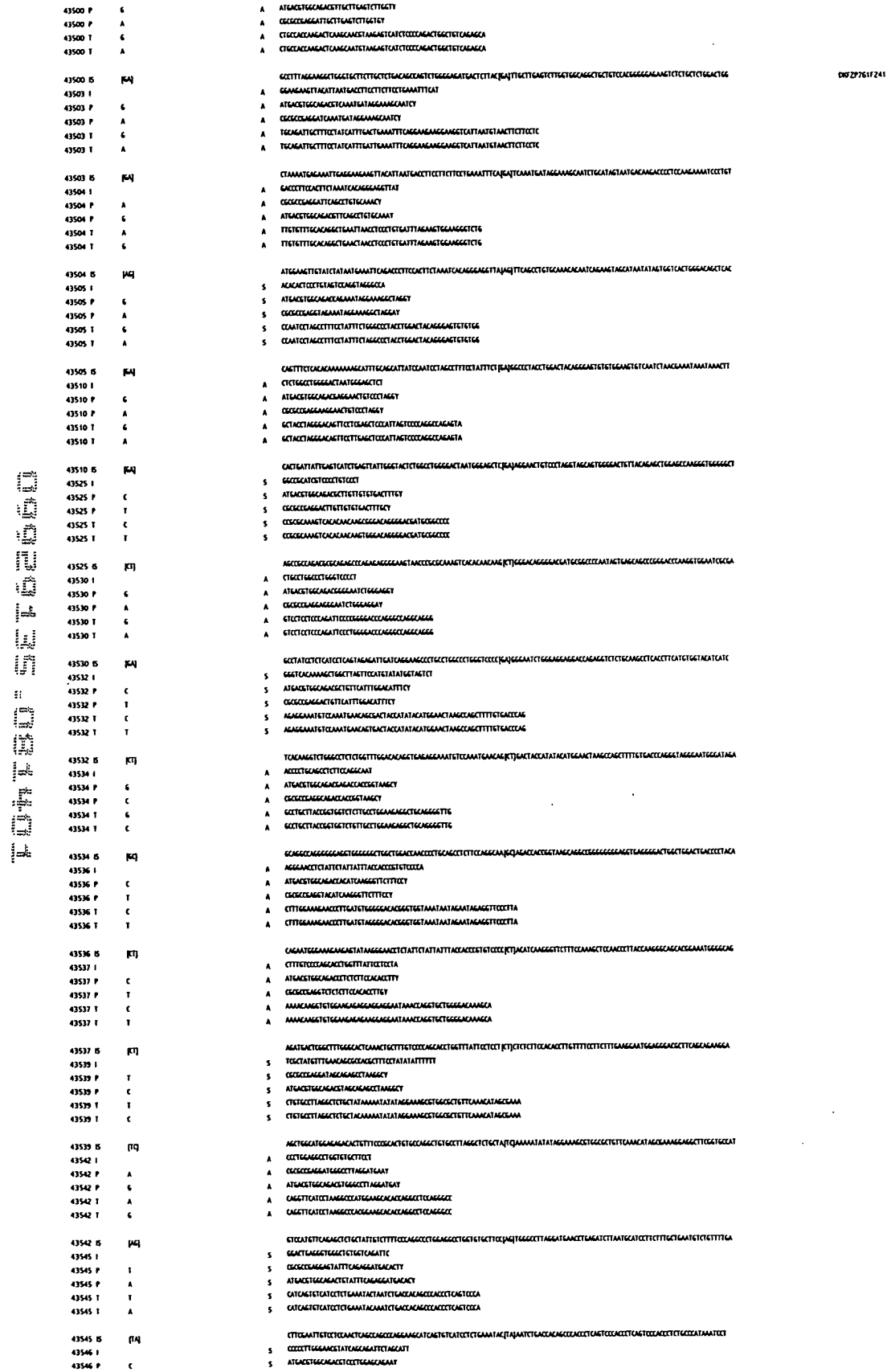
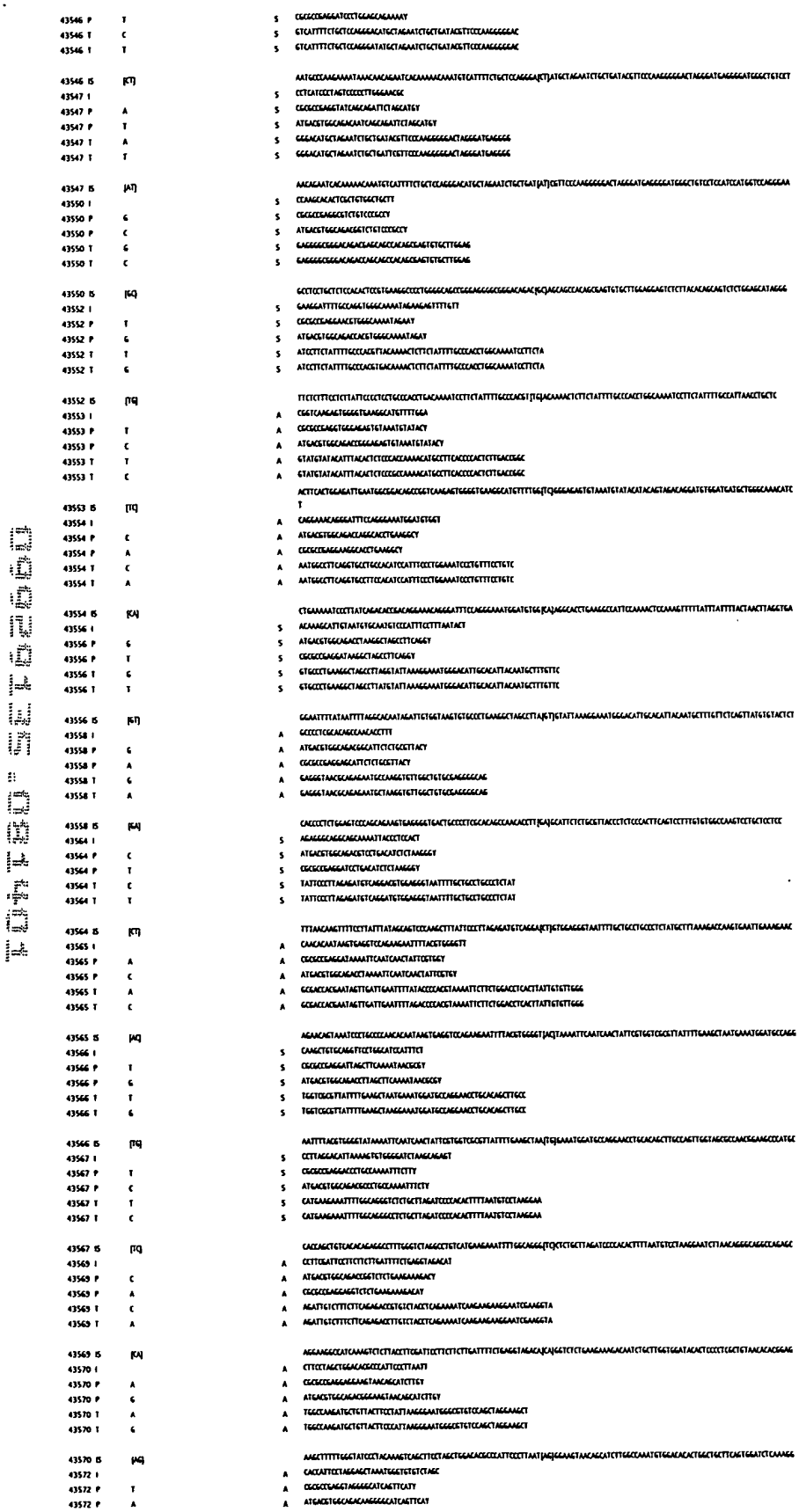


FIGURE 129F



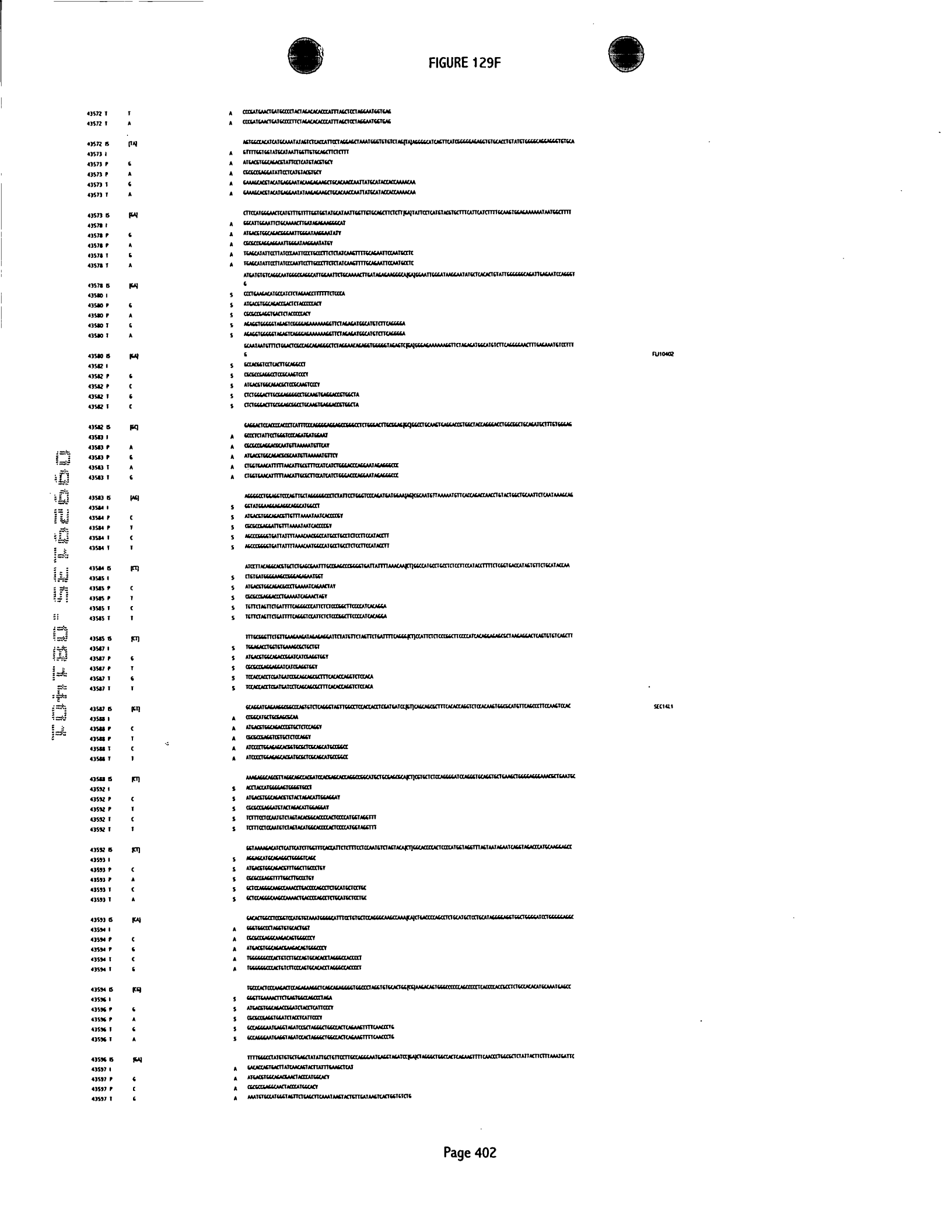
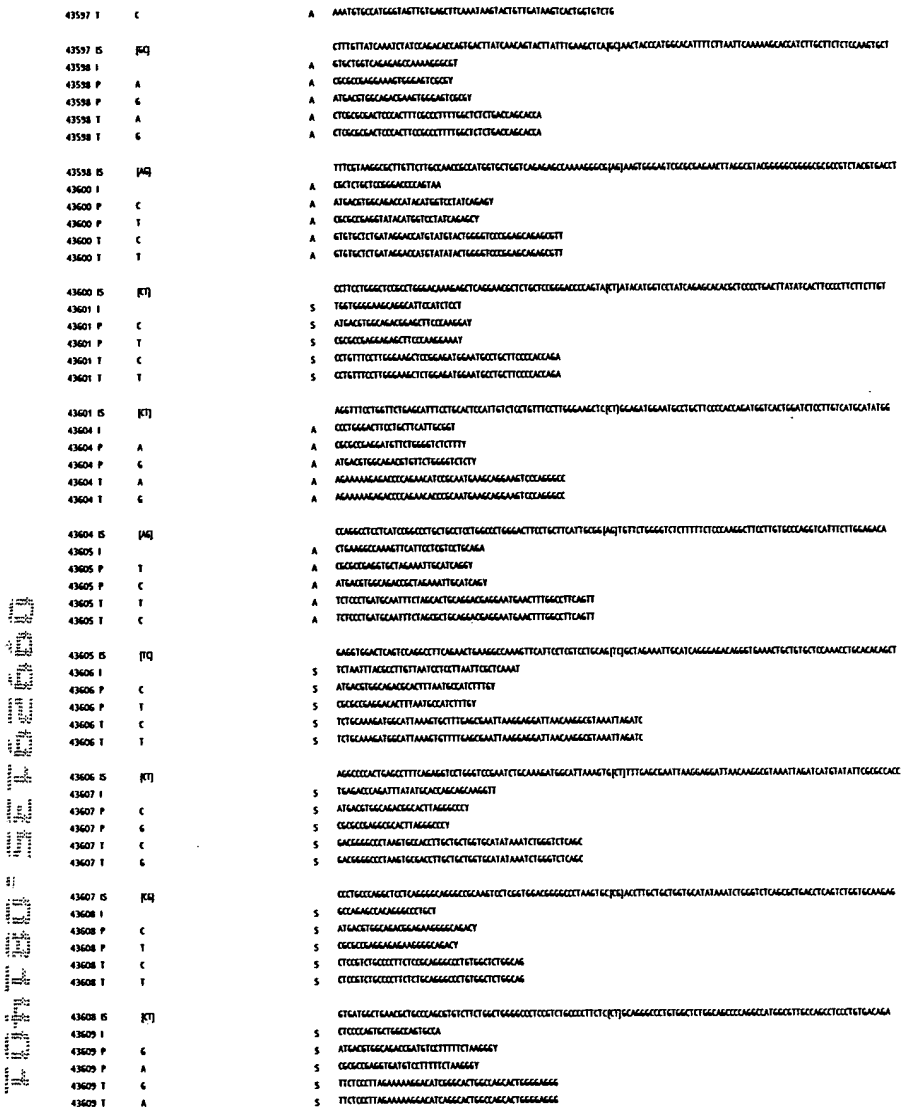
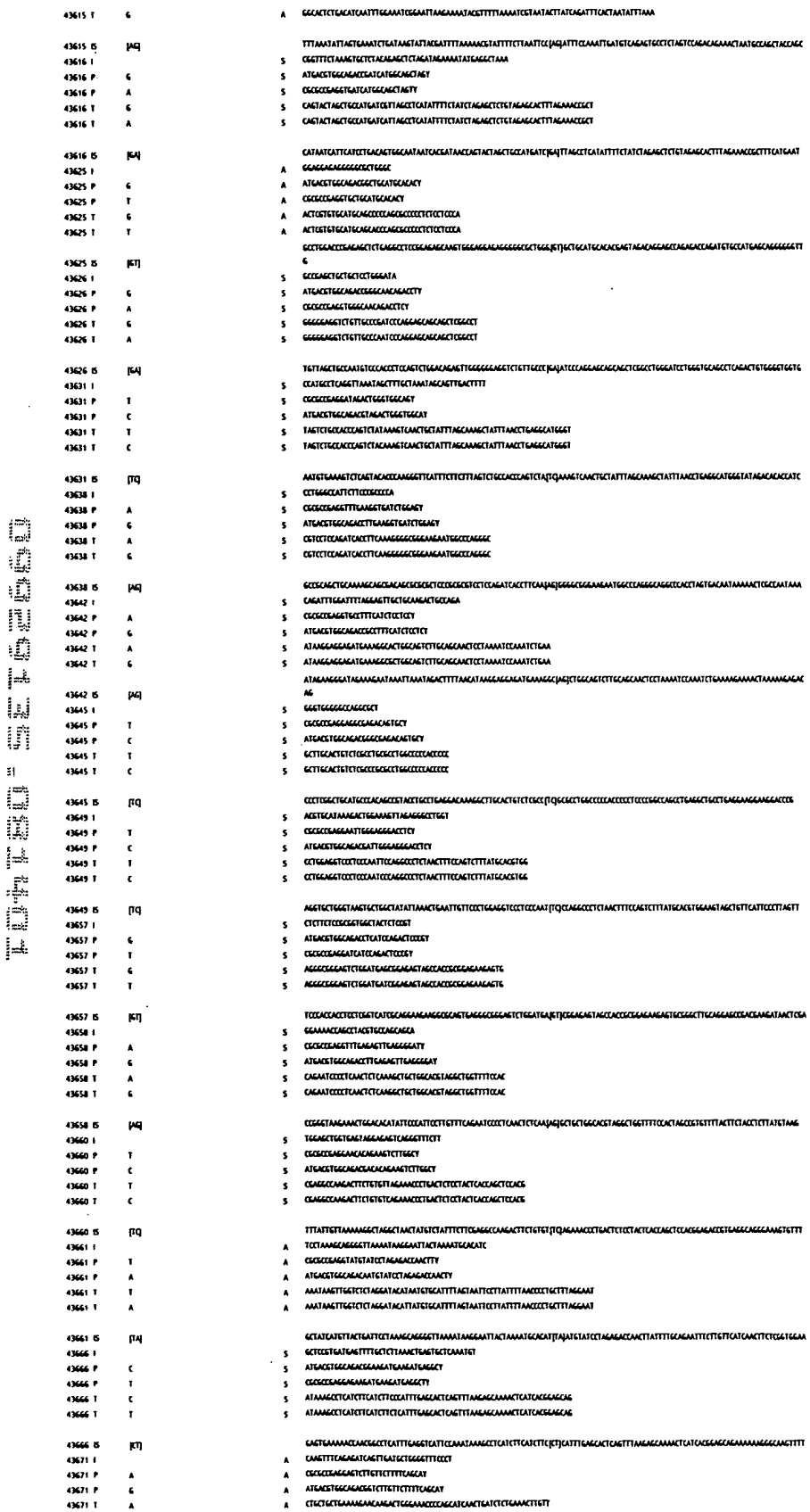


FIGURE 129F





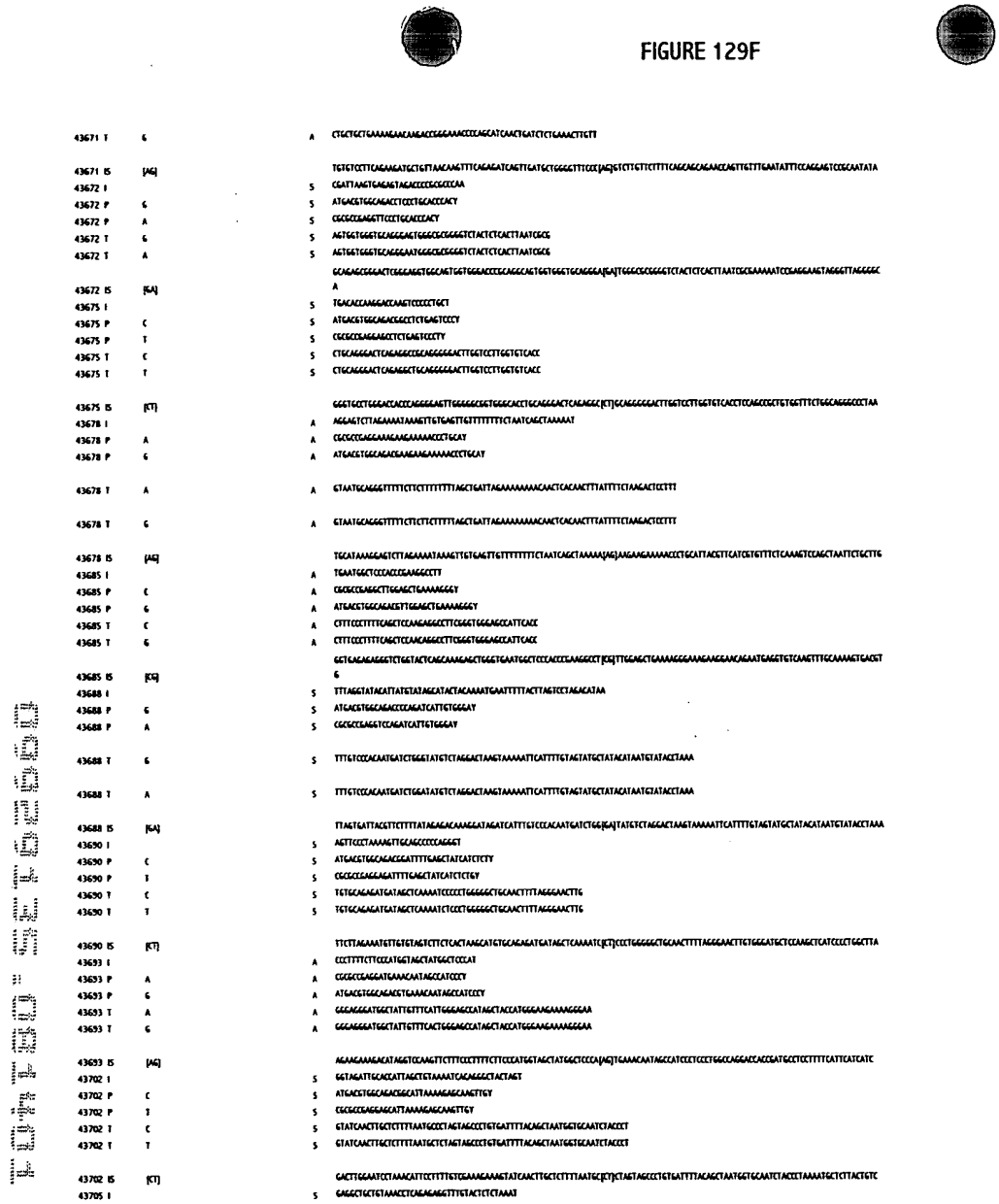


FIGURE 129F

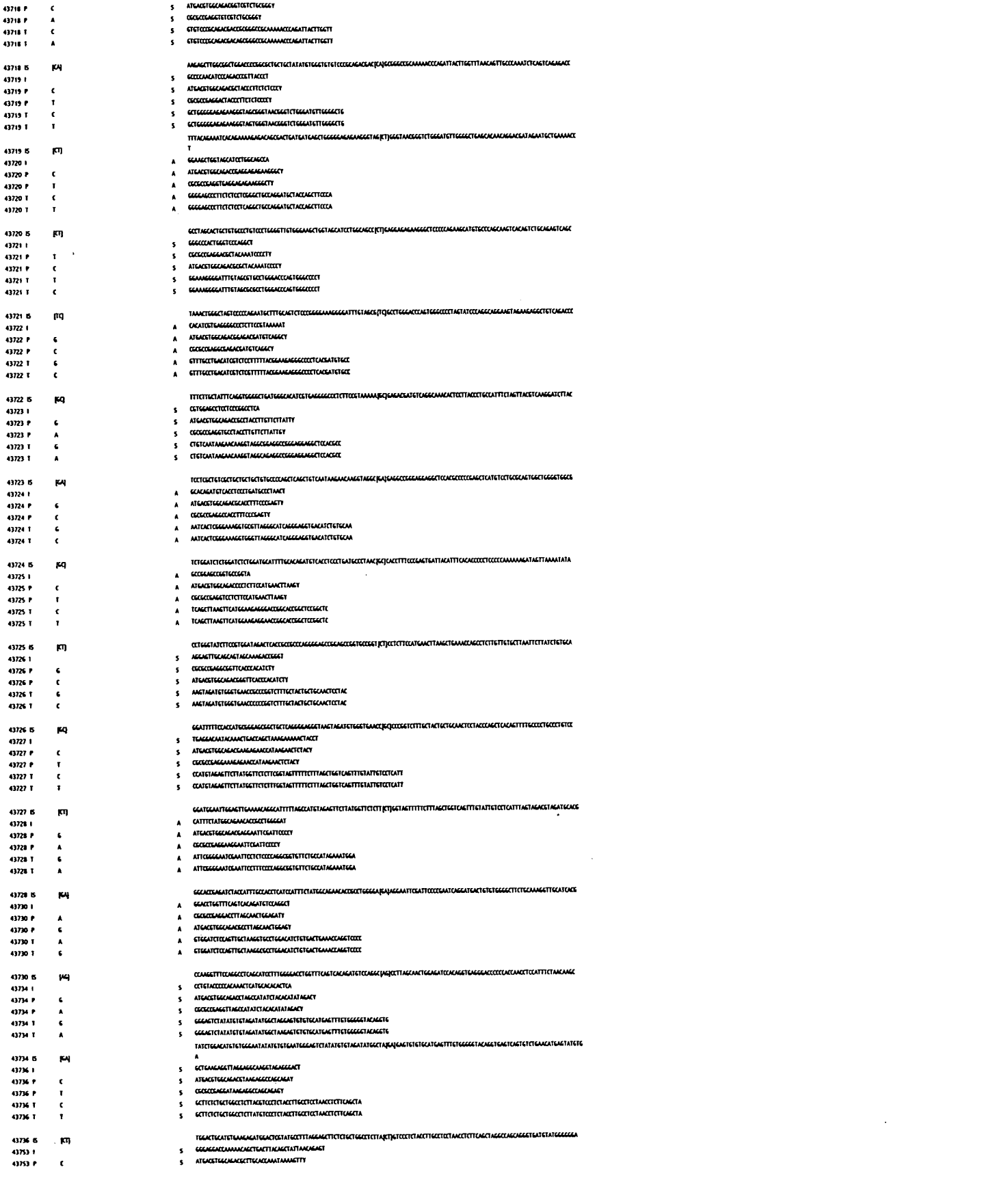
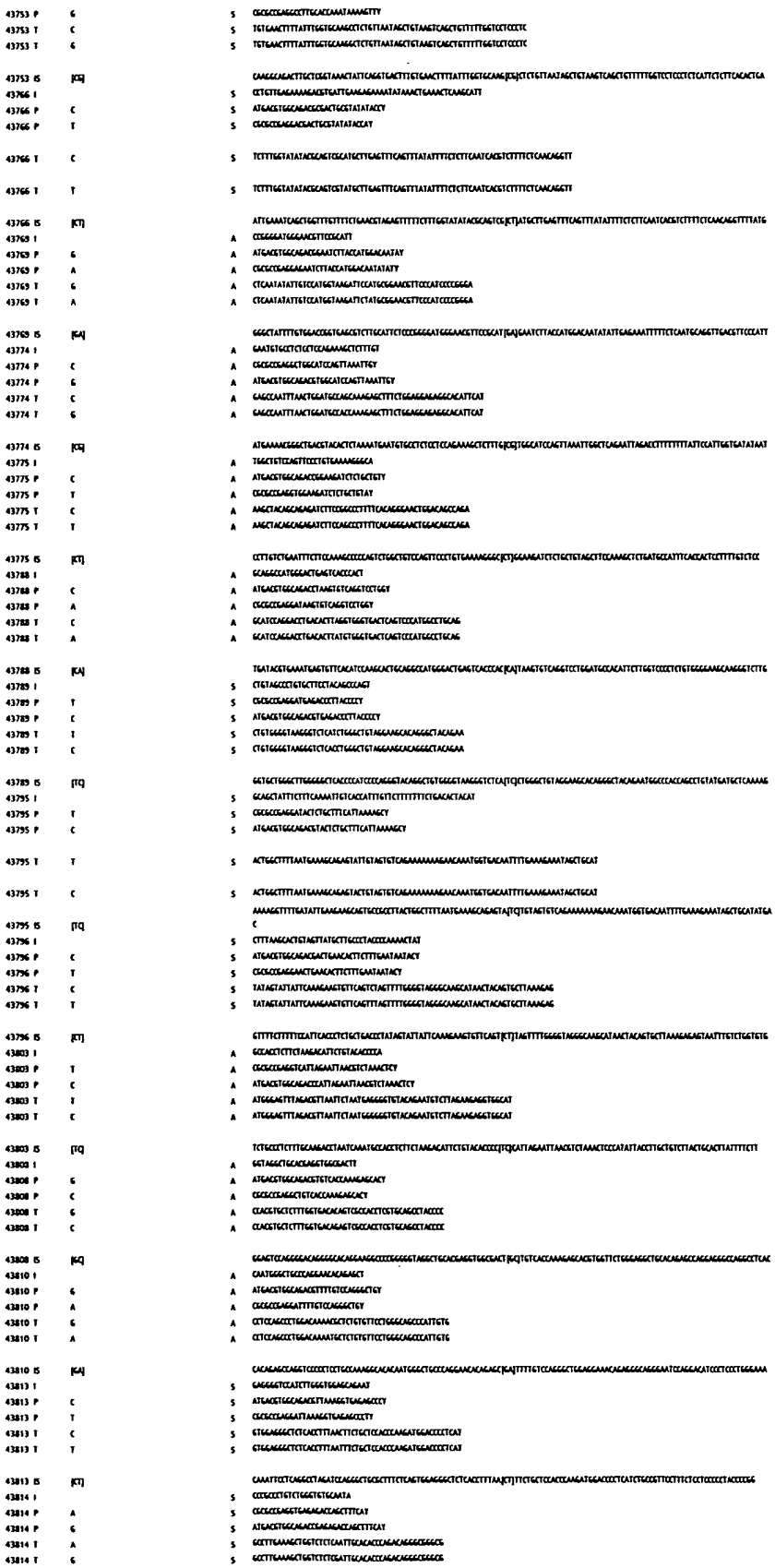


FIGURE 129F



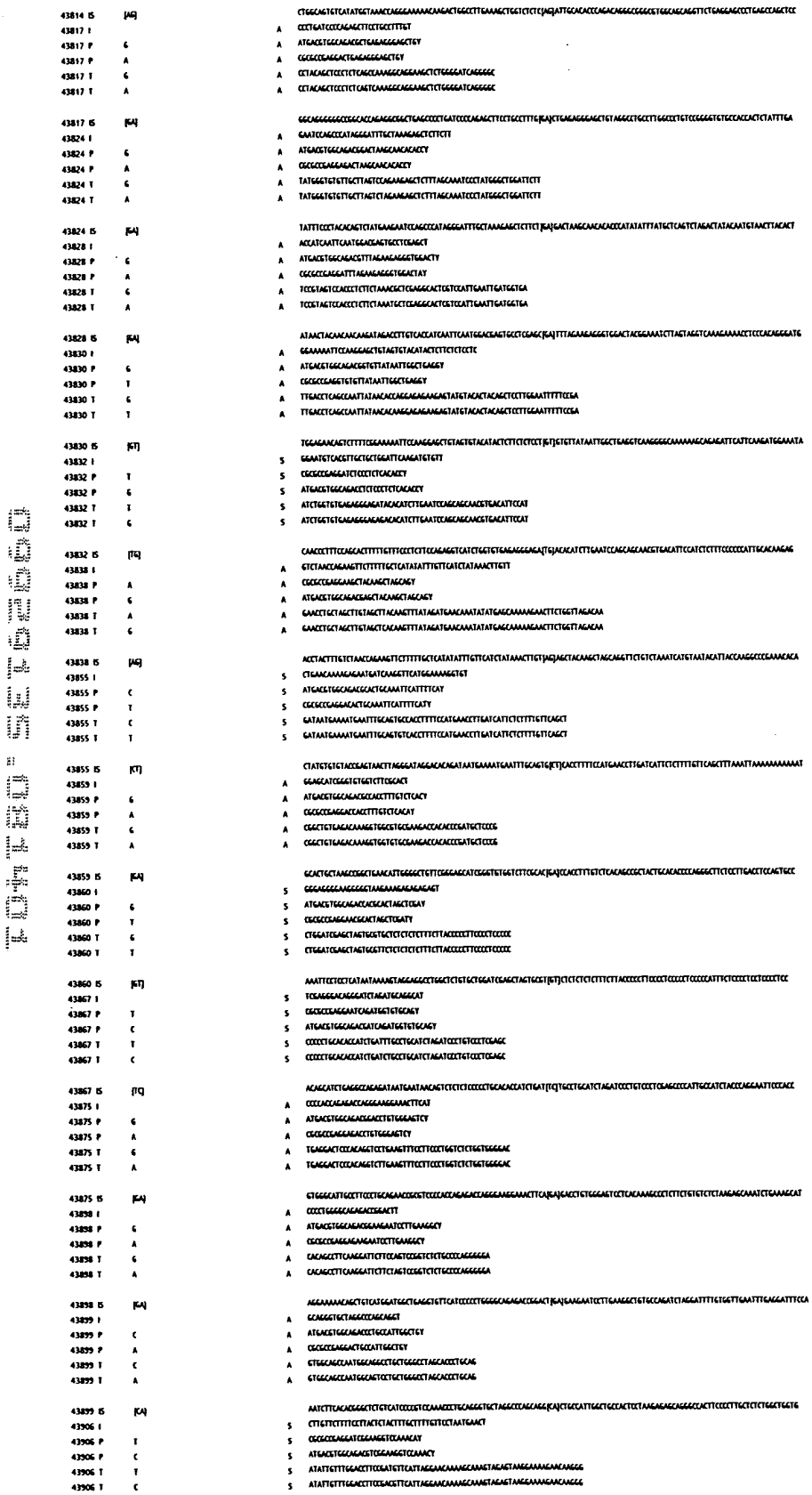
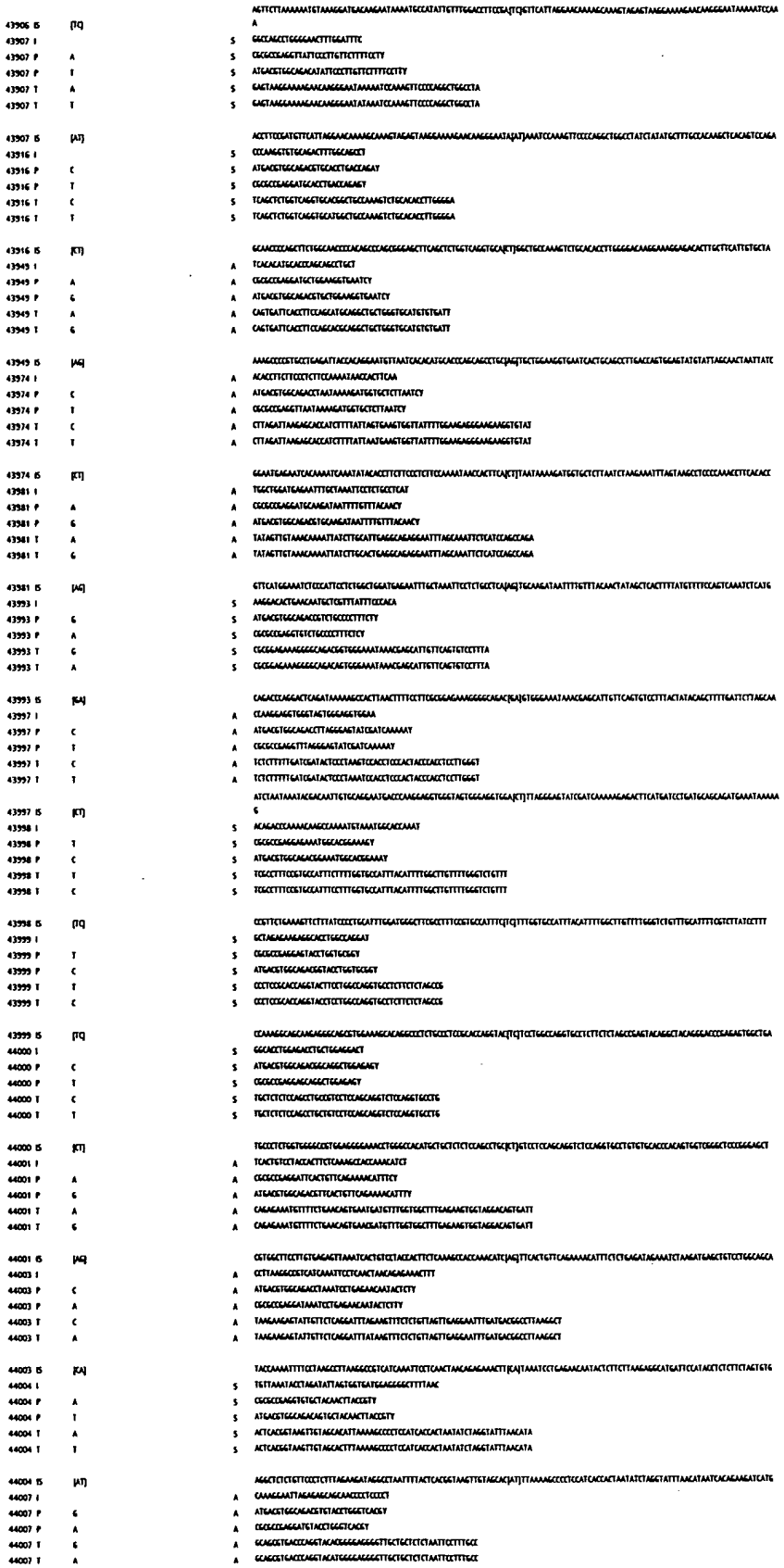
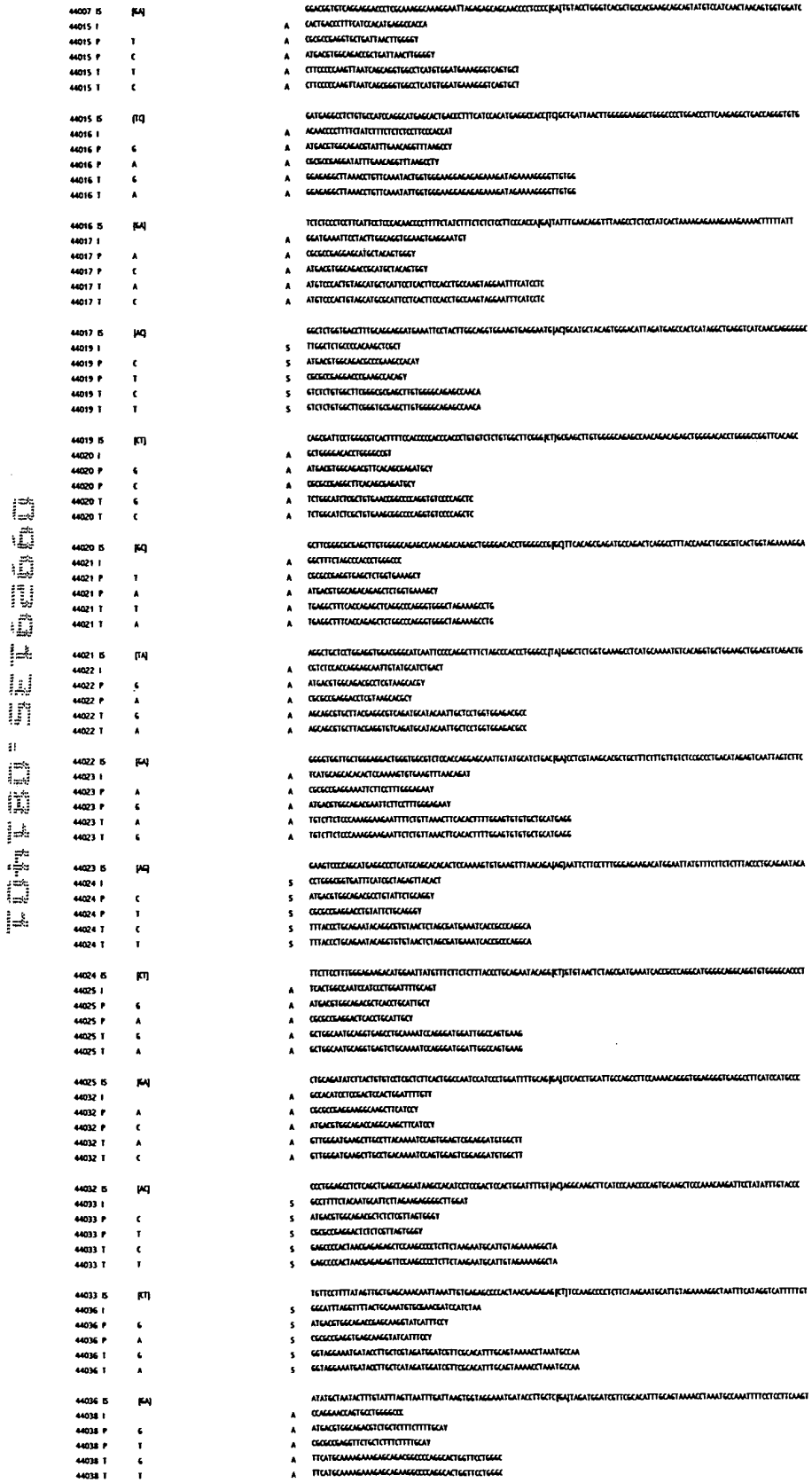
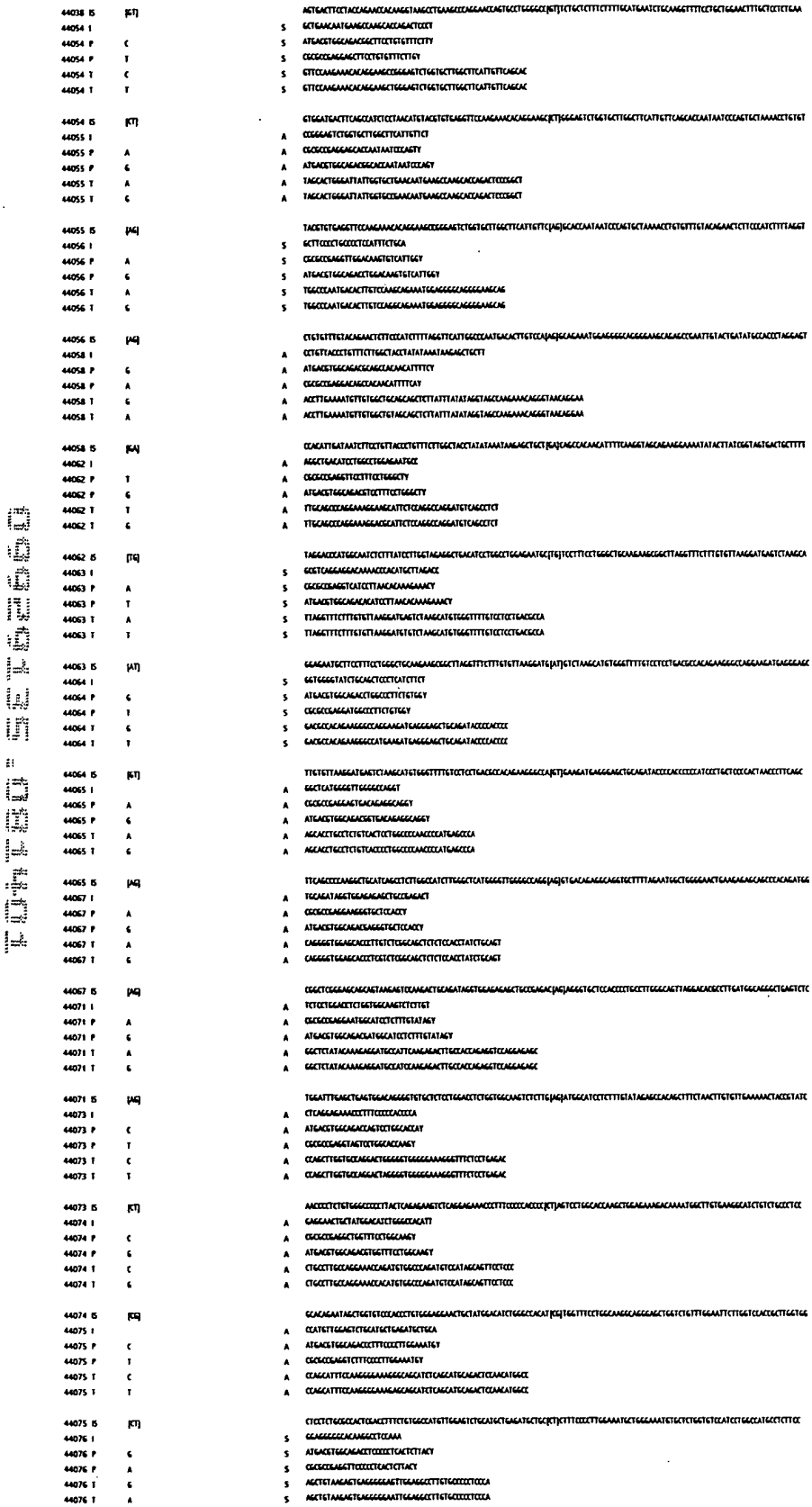
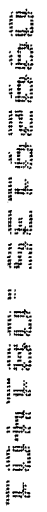


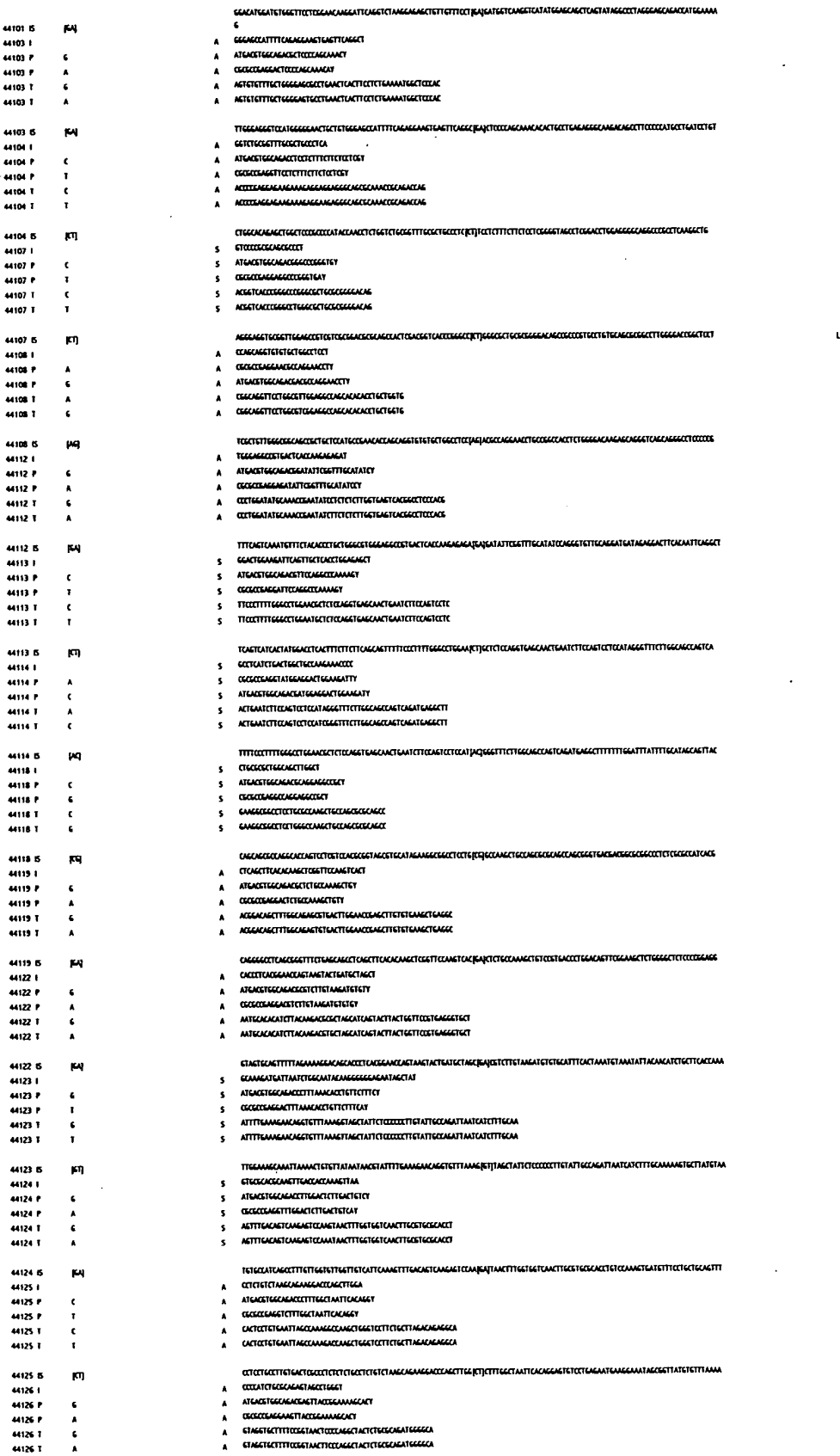
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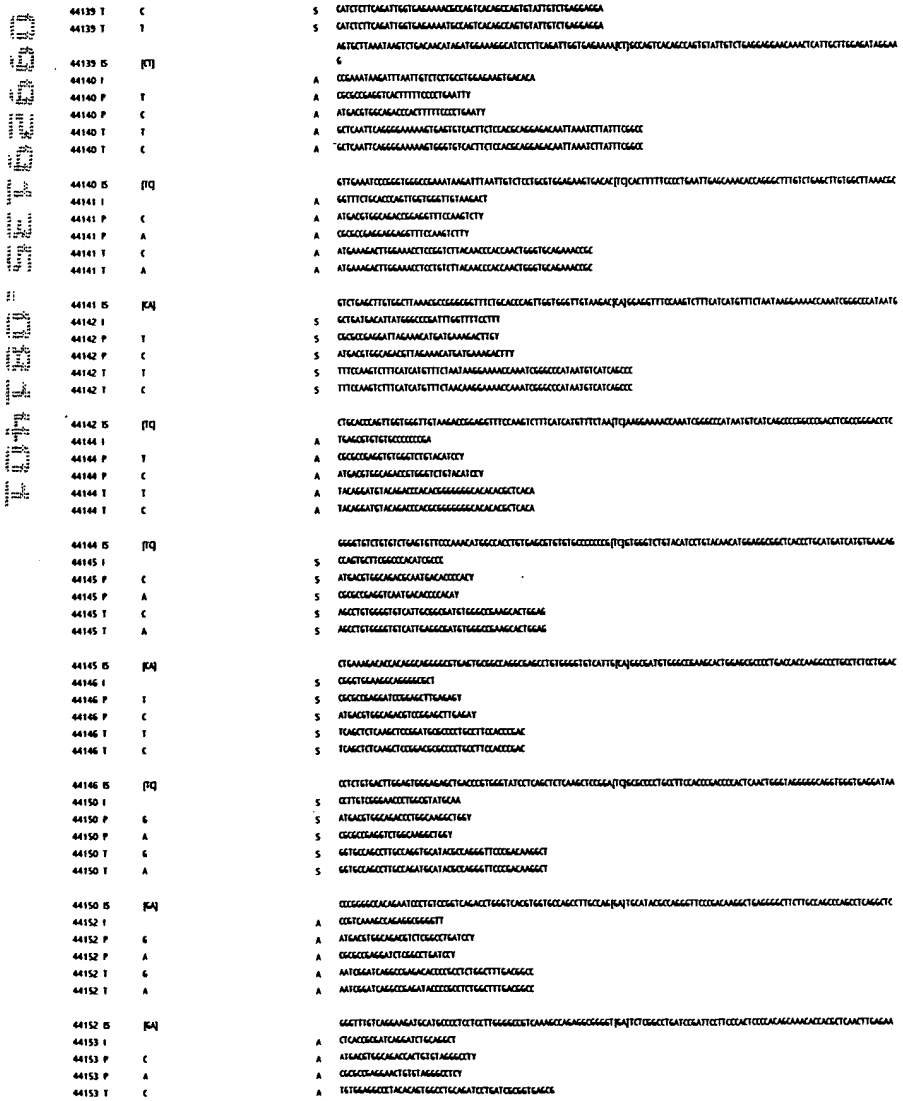


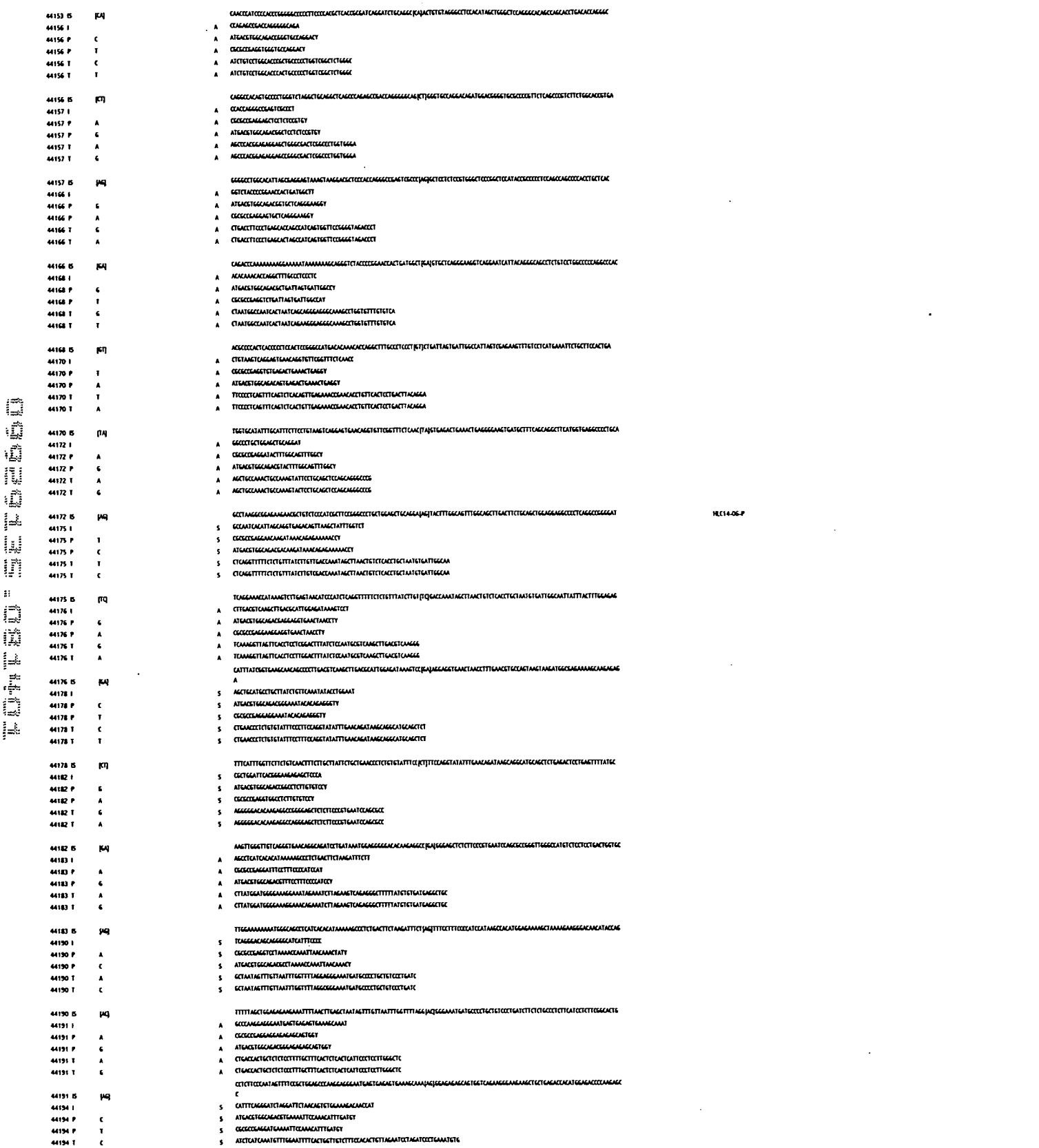


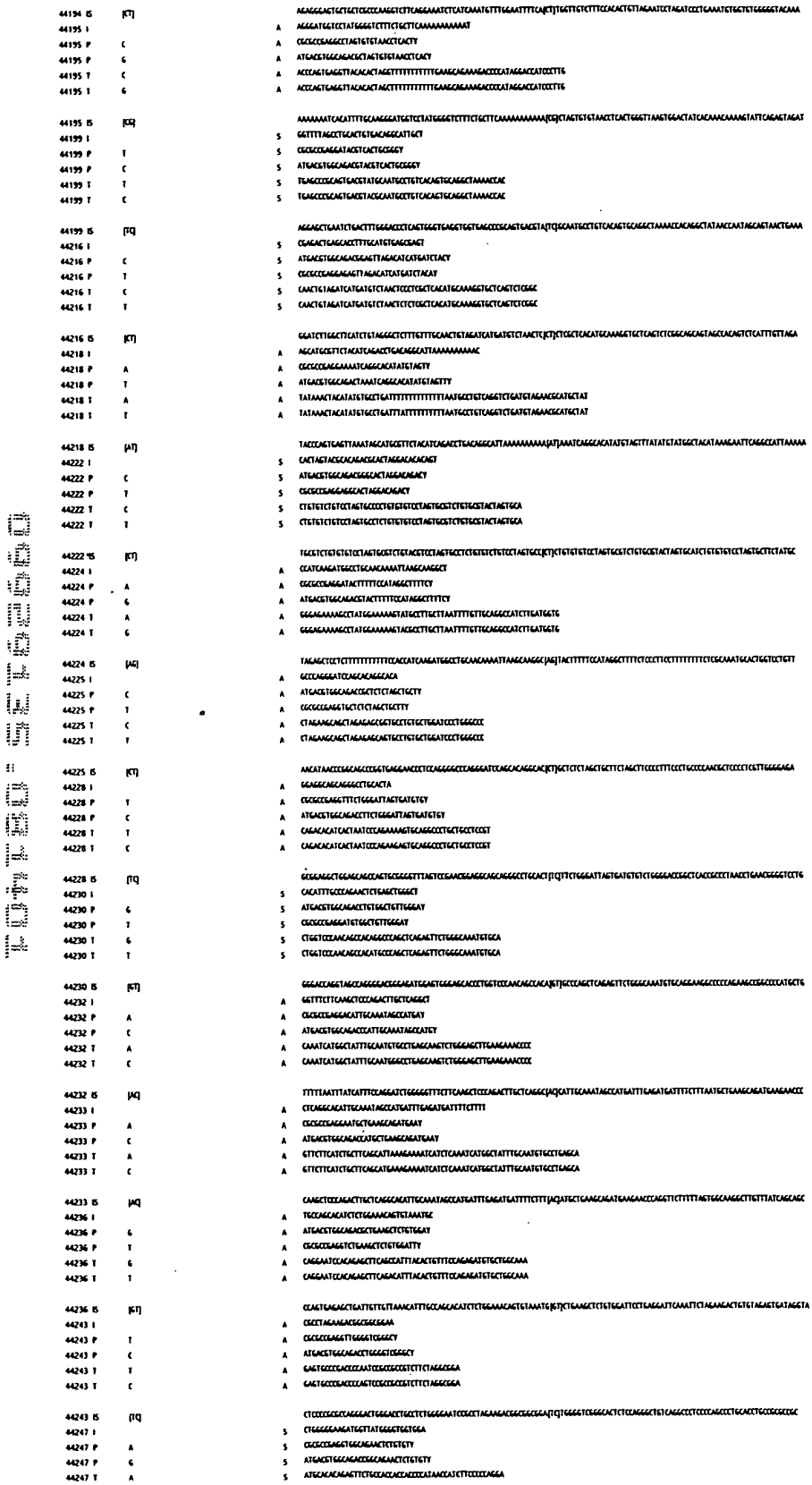












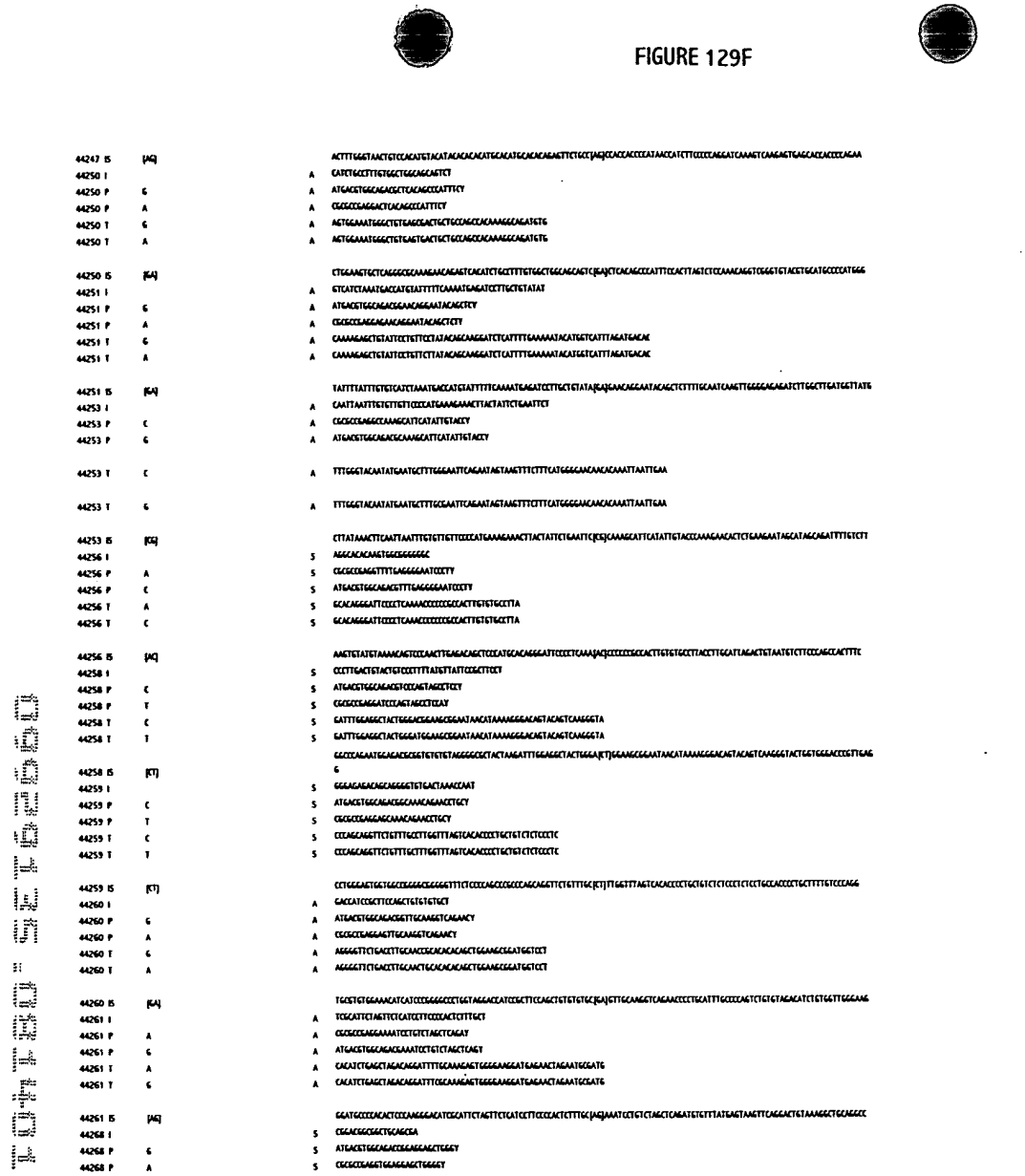


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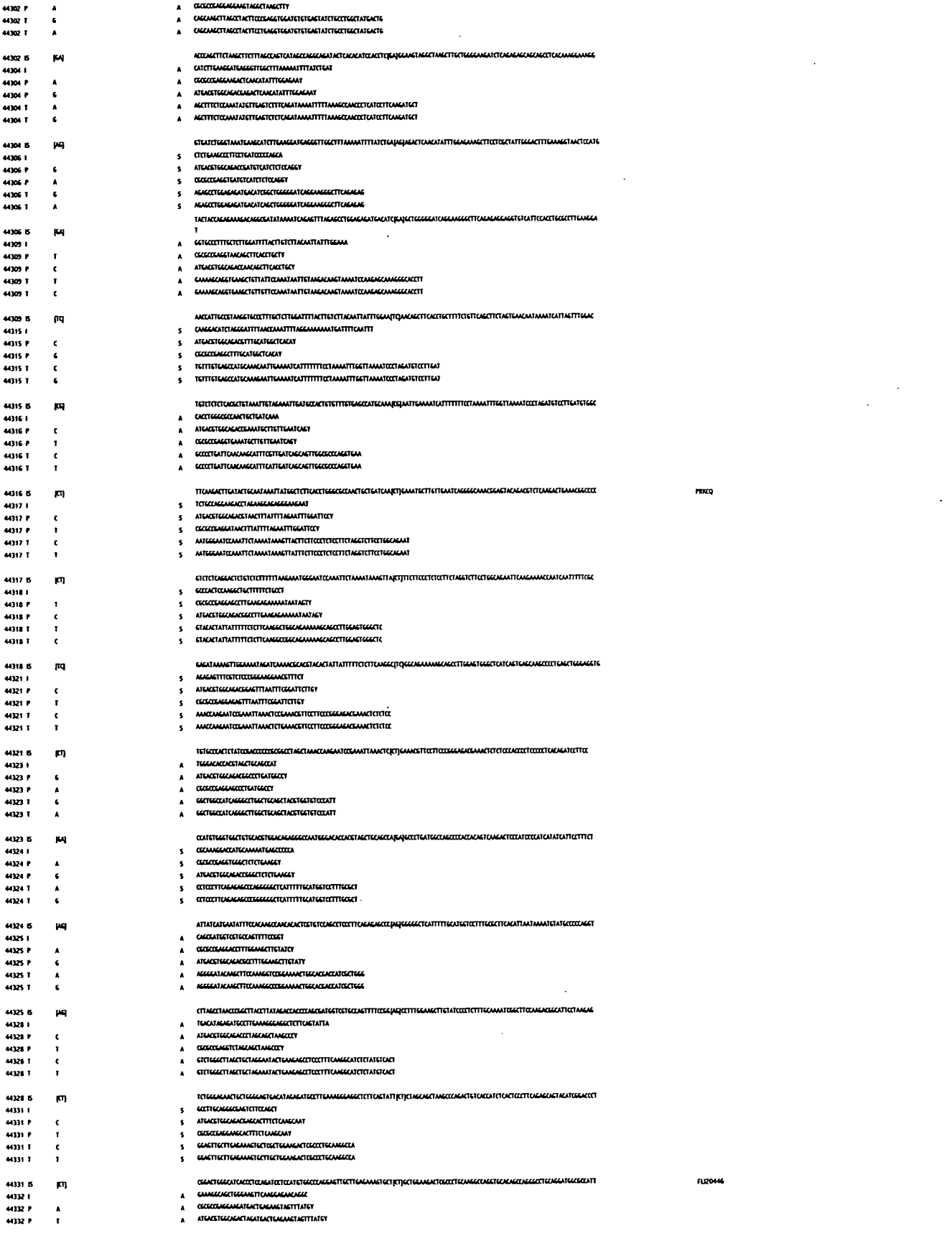
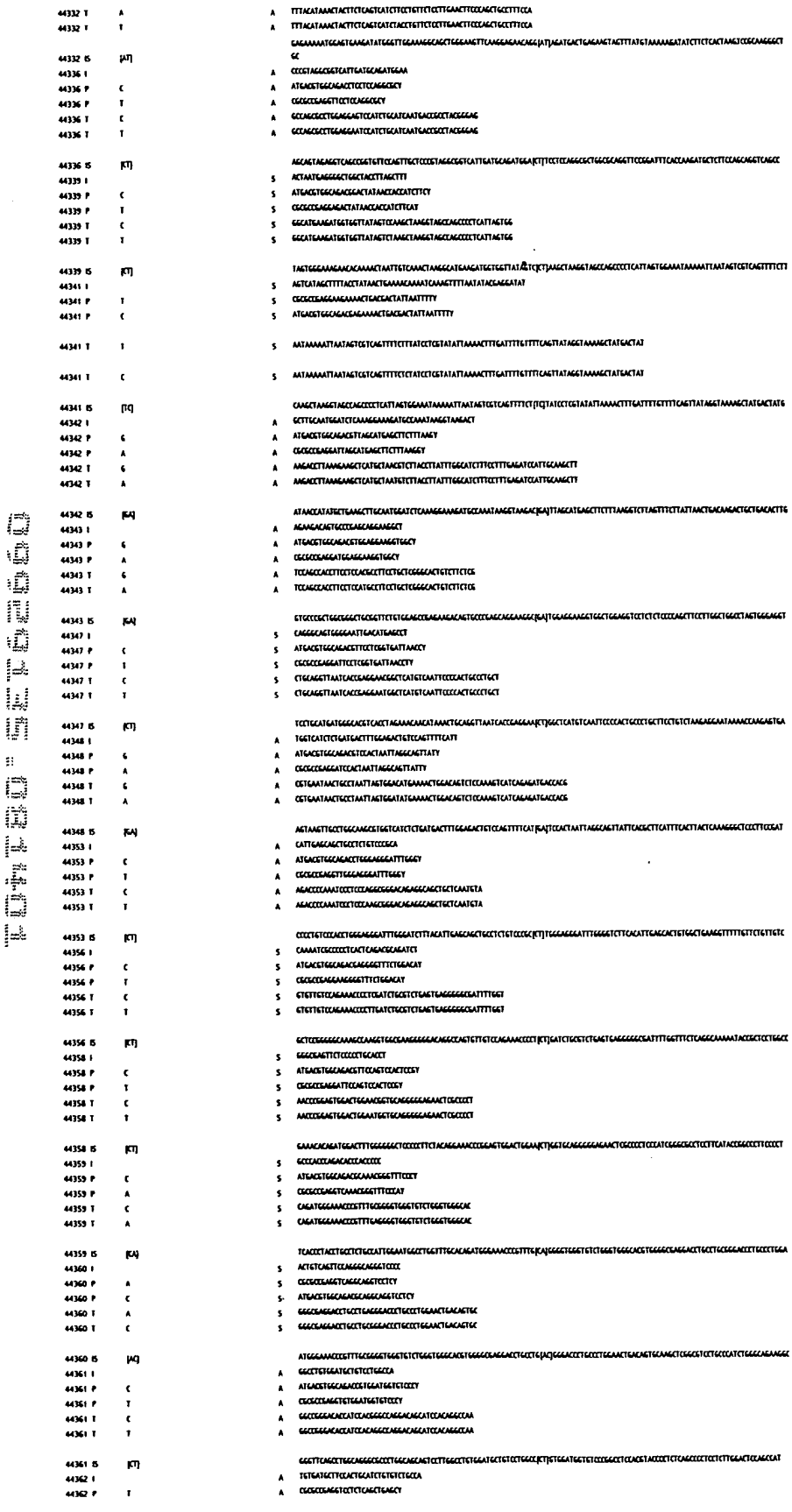
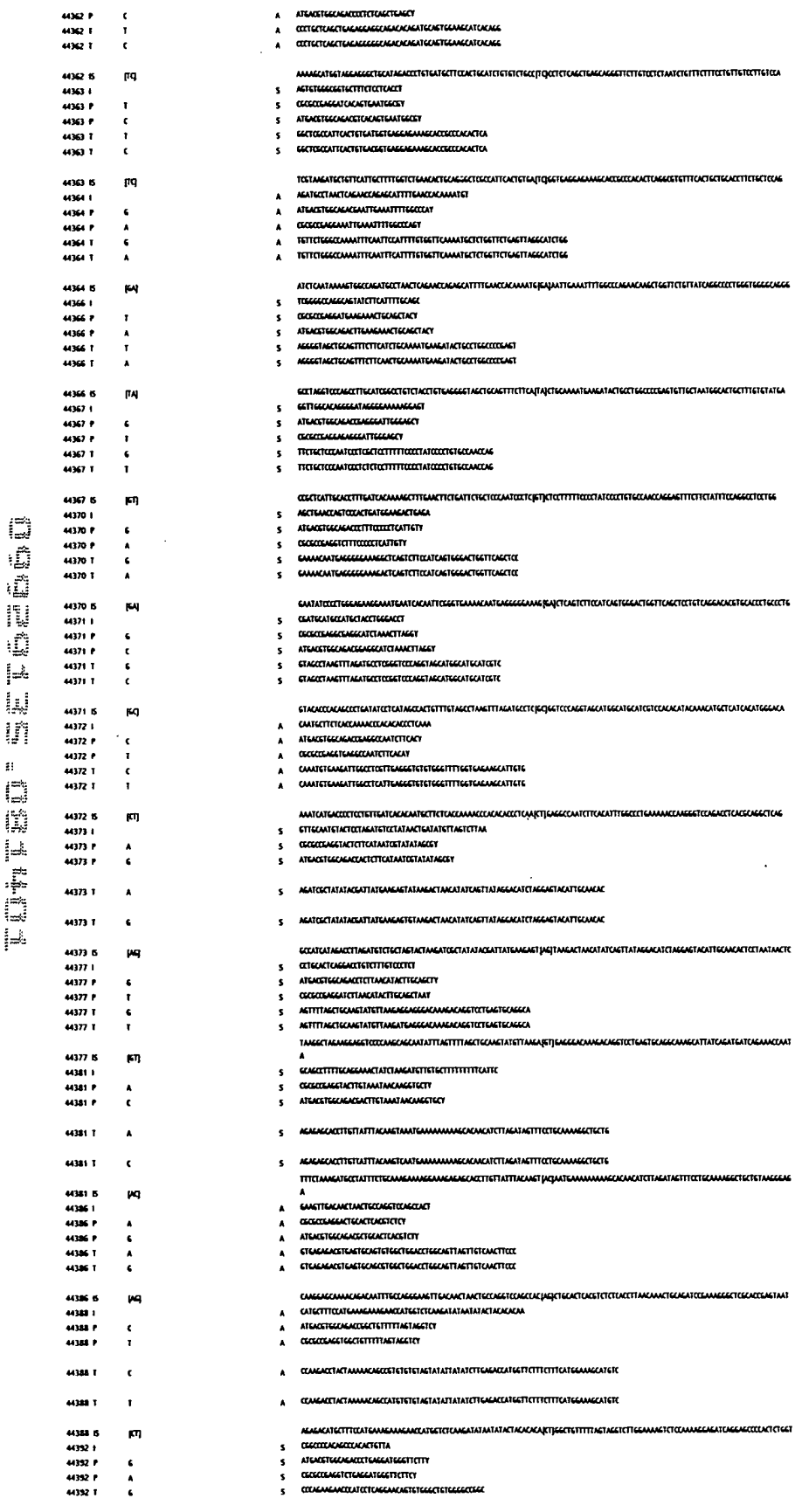


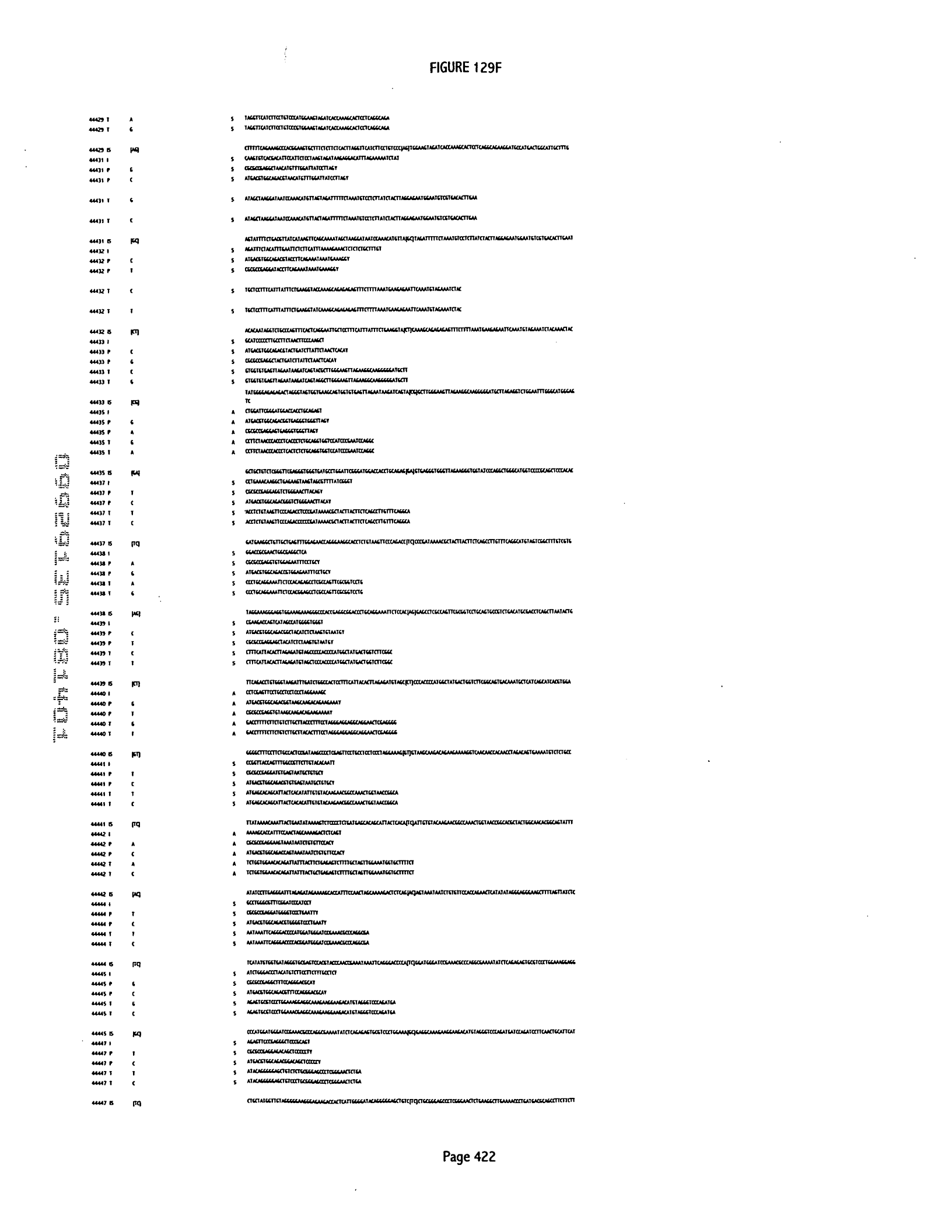
FIGURE 129F

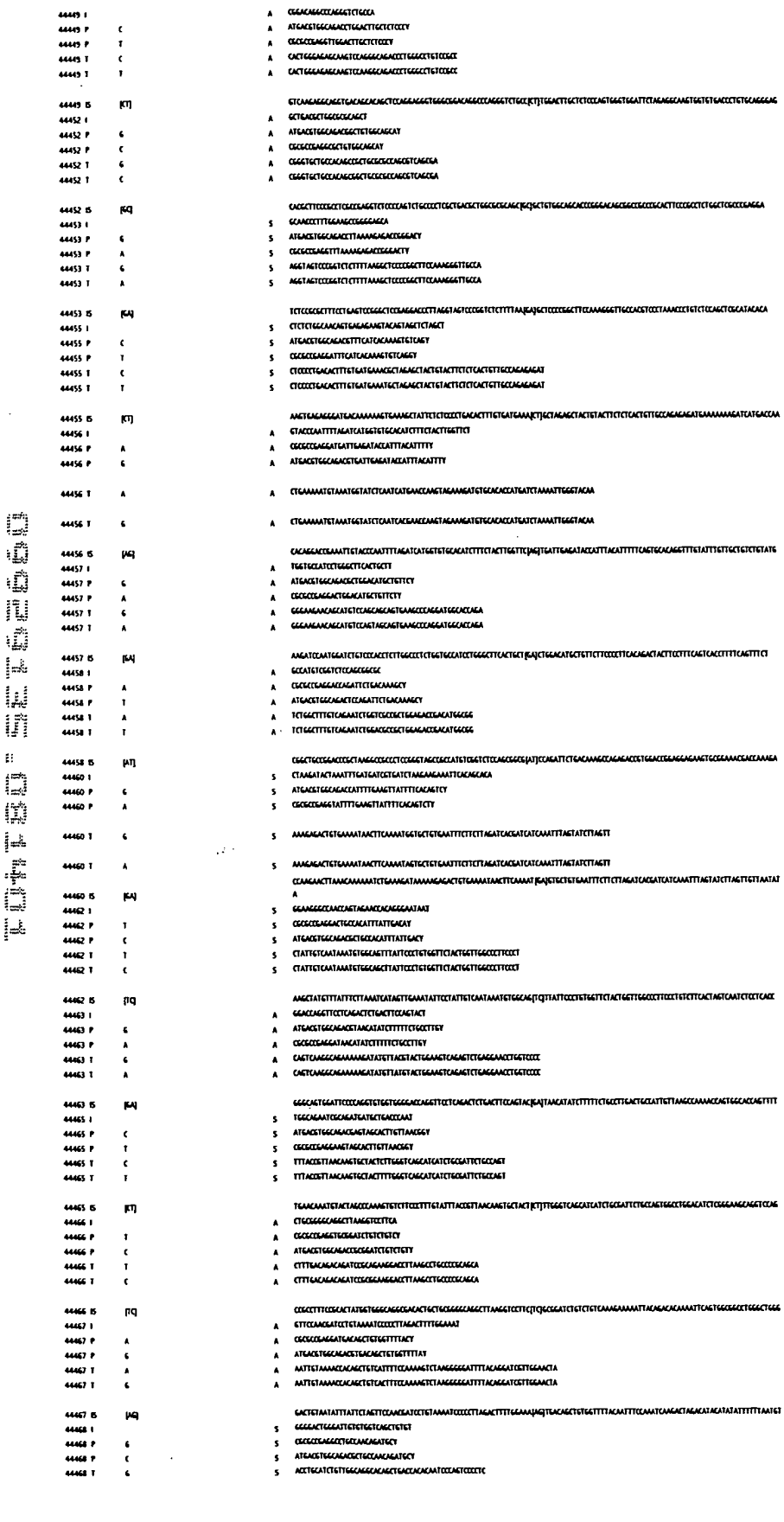






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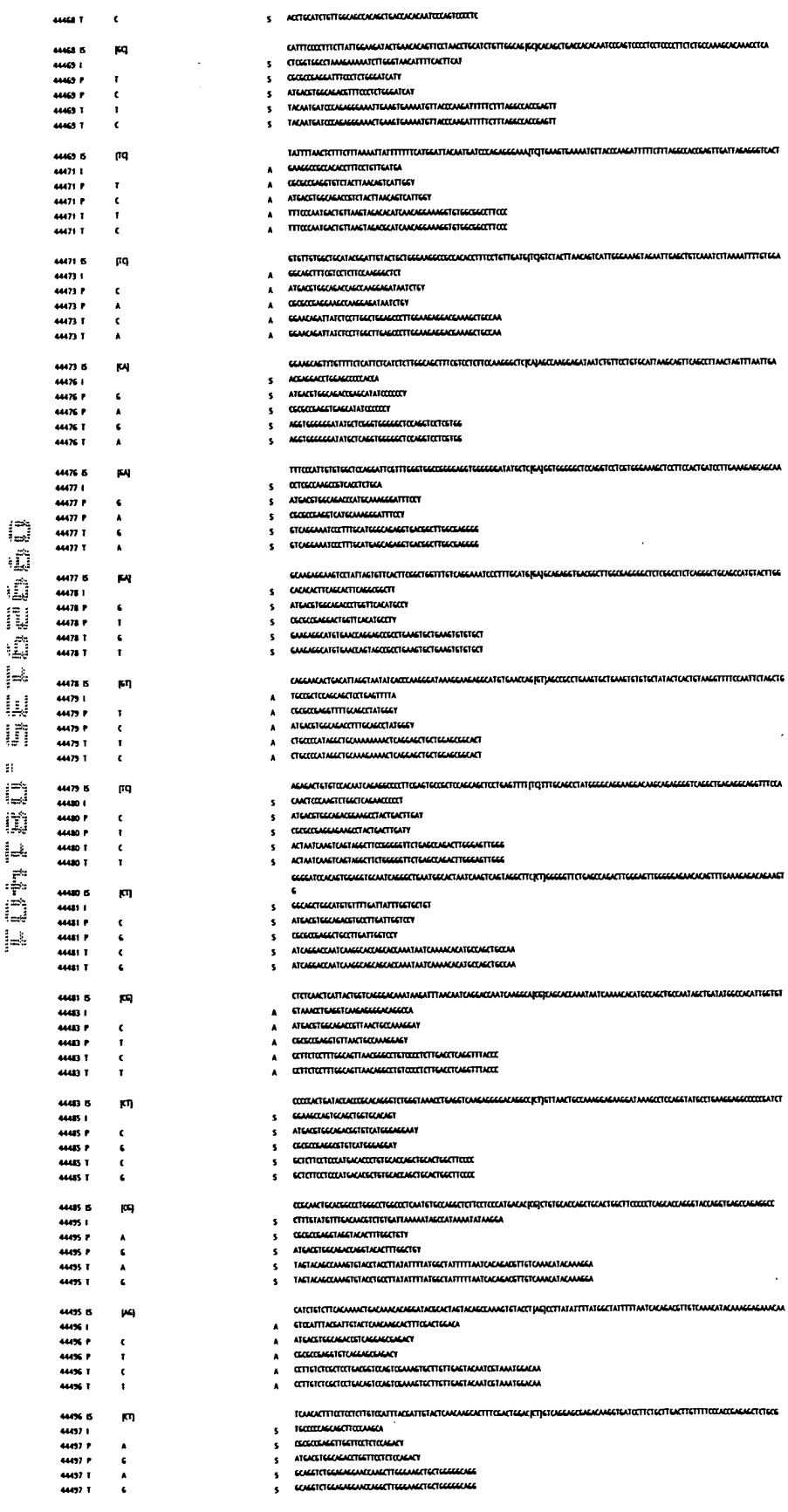


FIGURE 129F

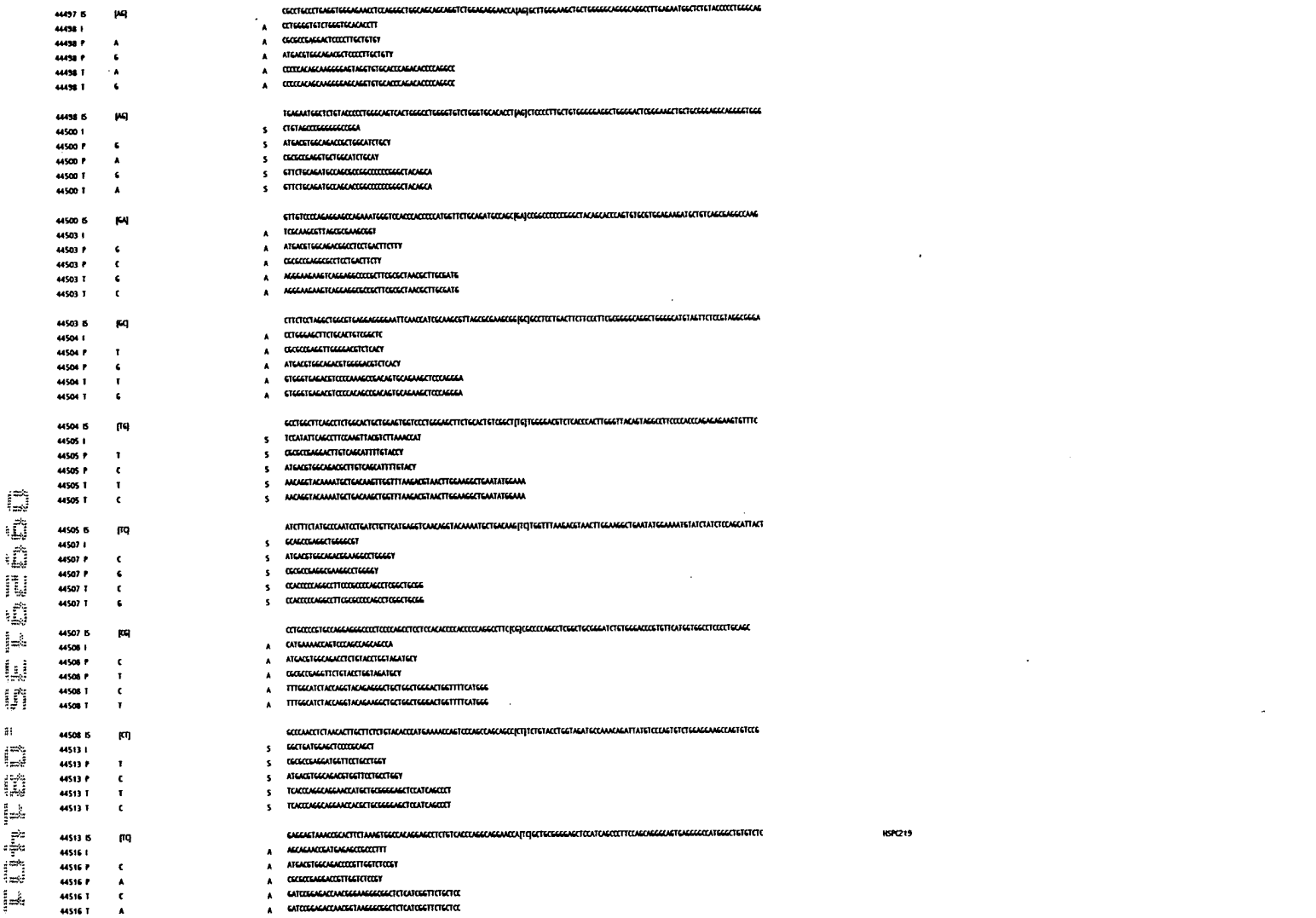
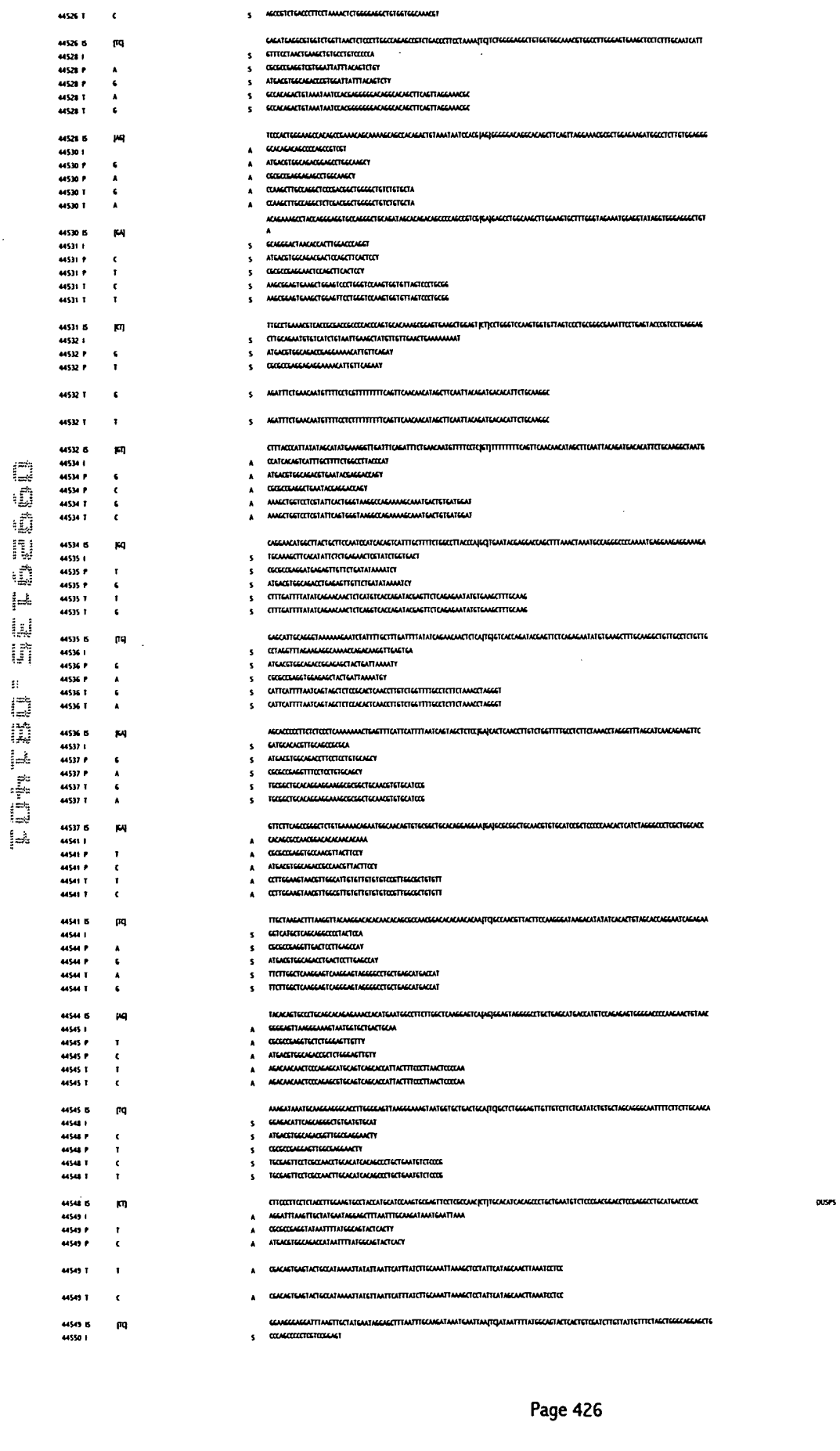
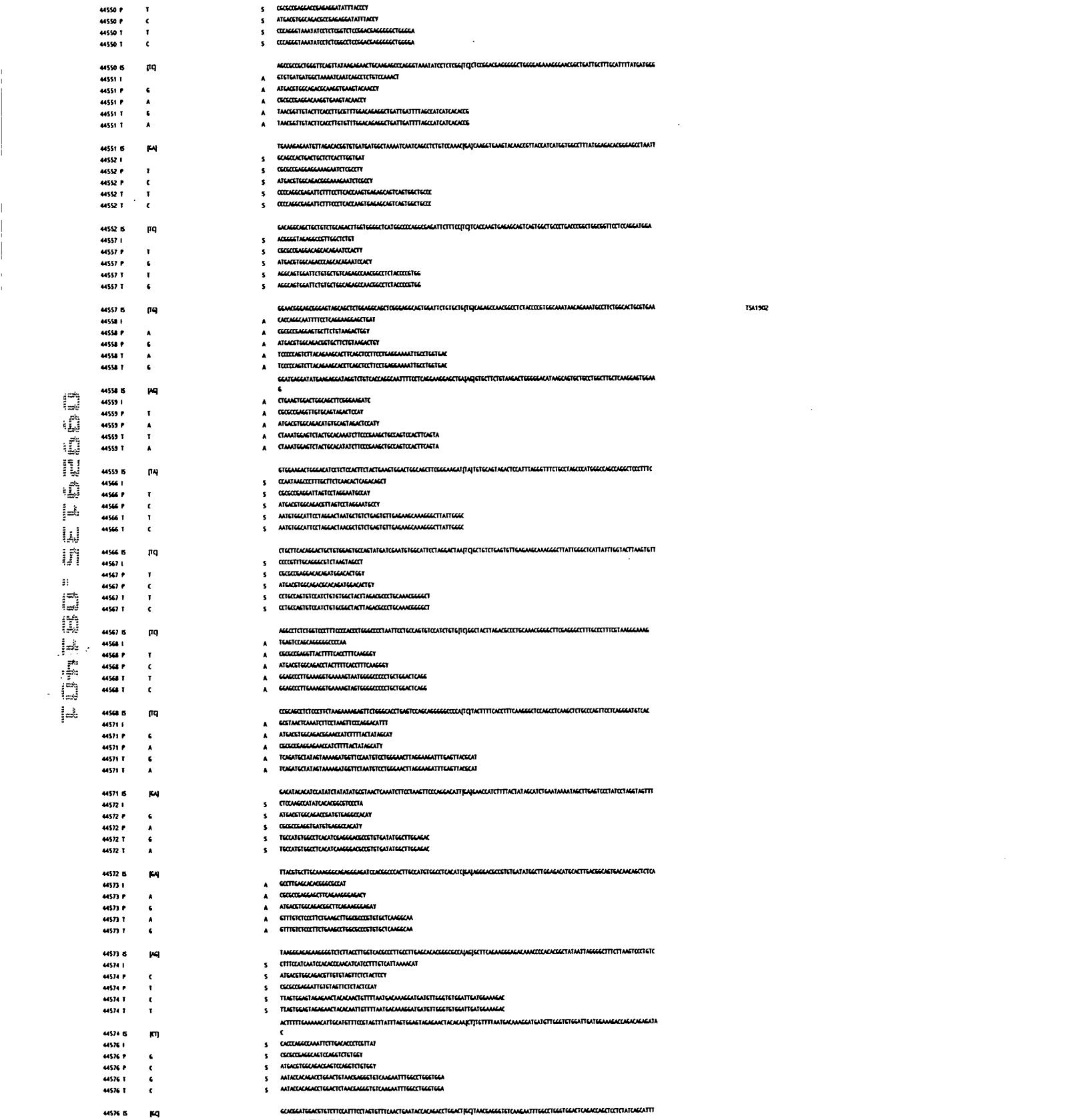
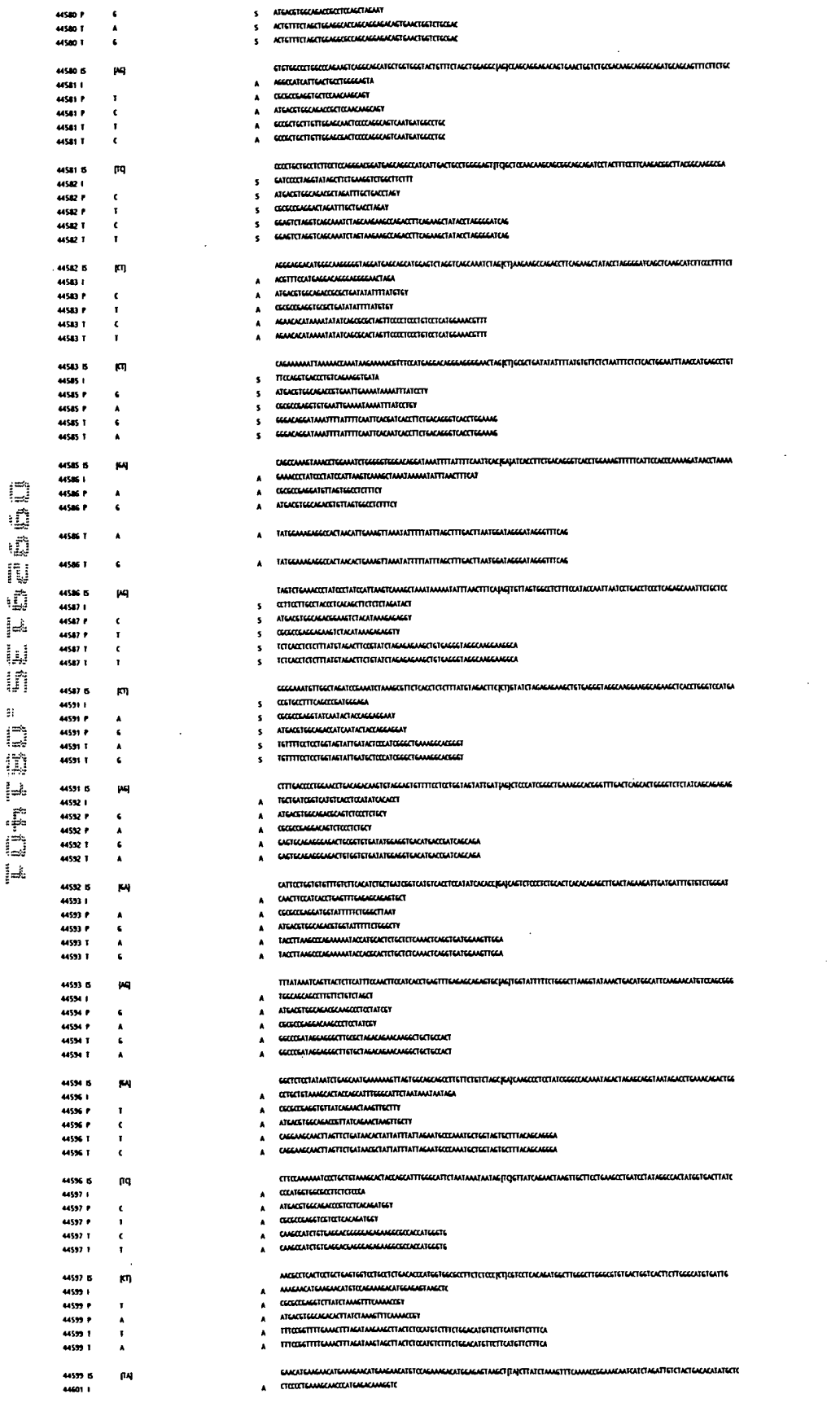


FIGURE 129F







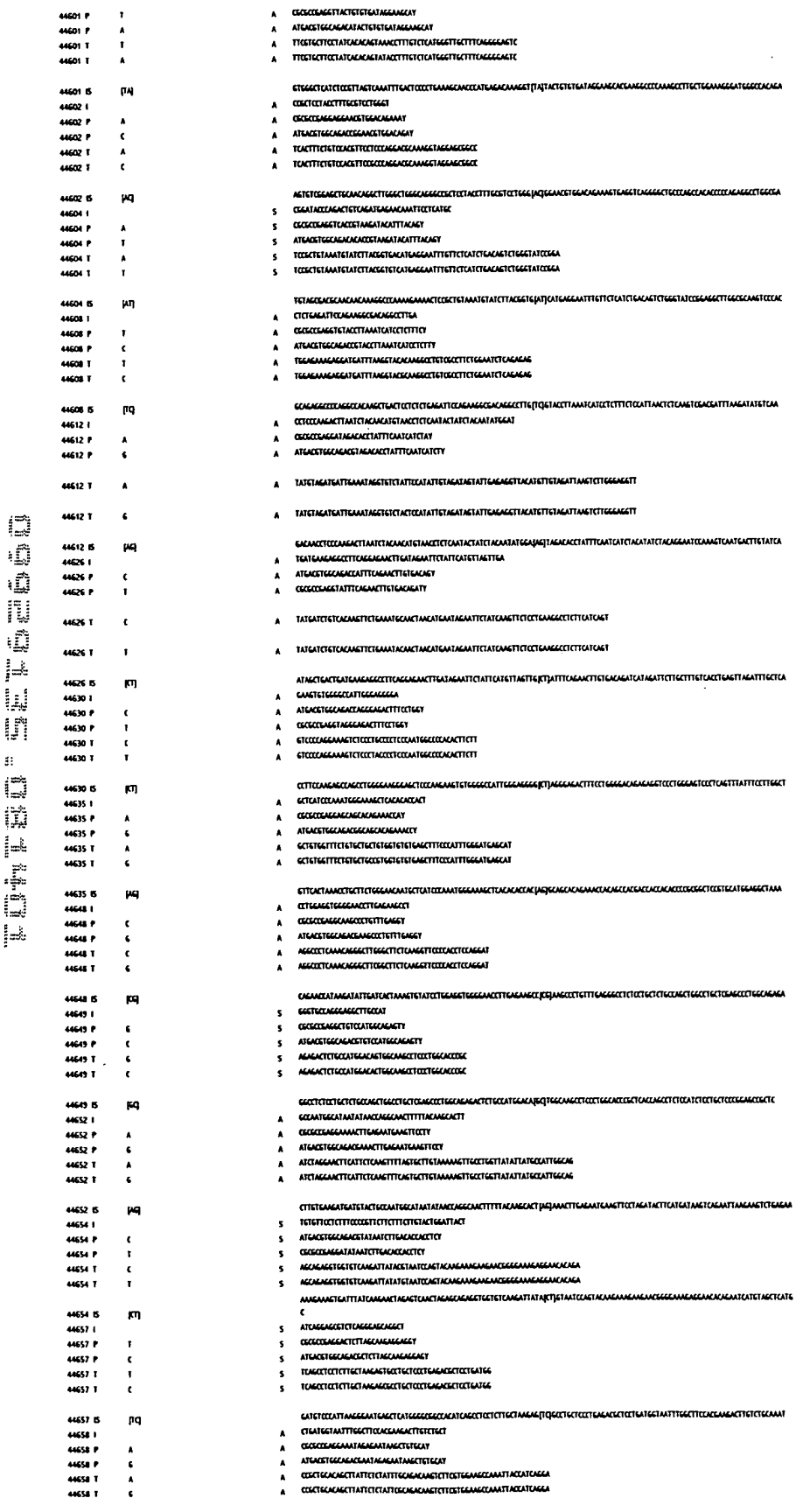


FIGURE 129F

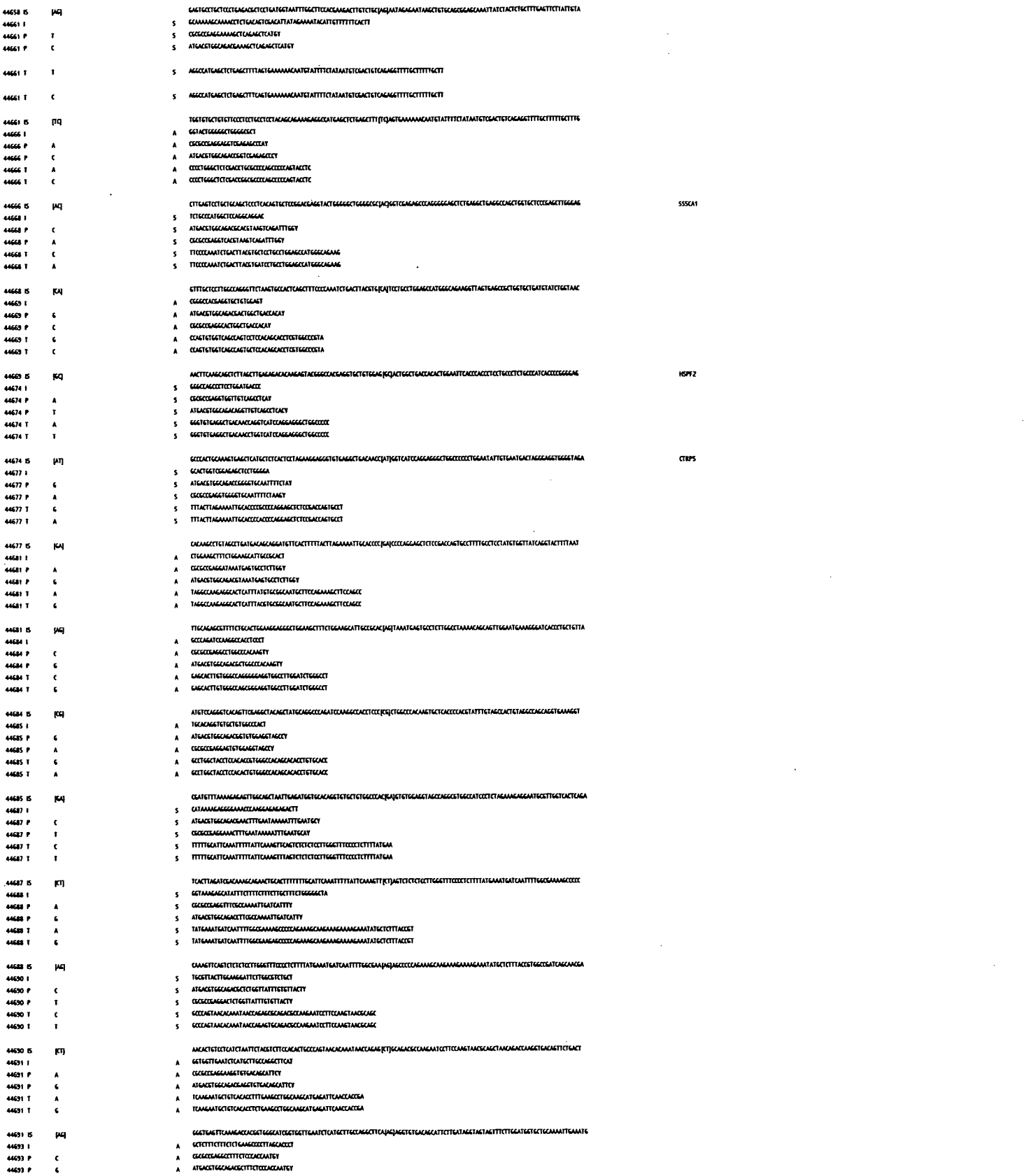
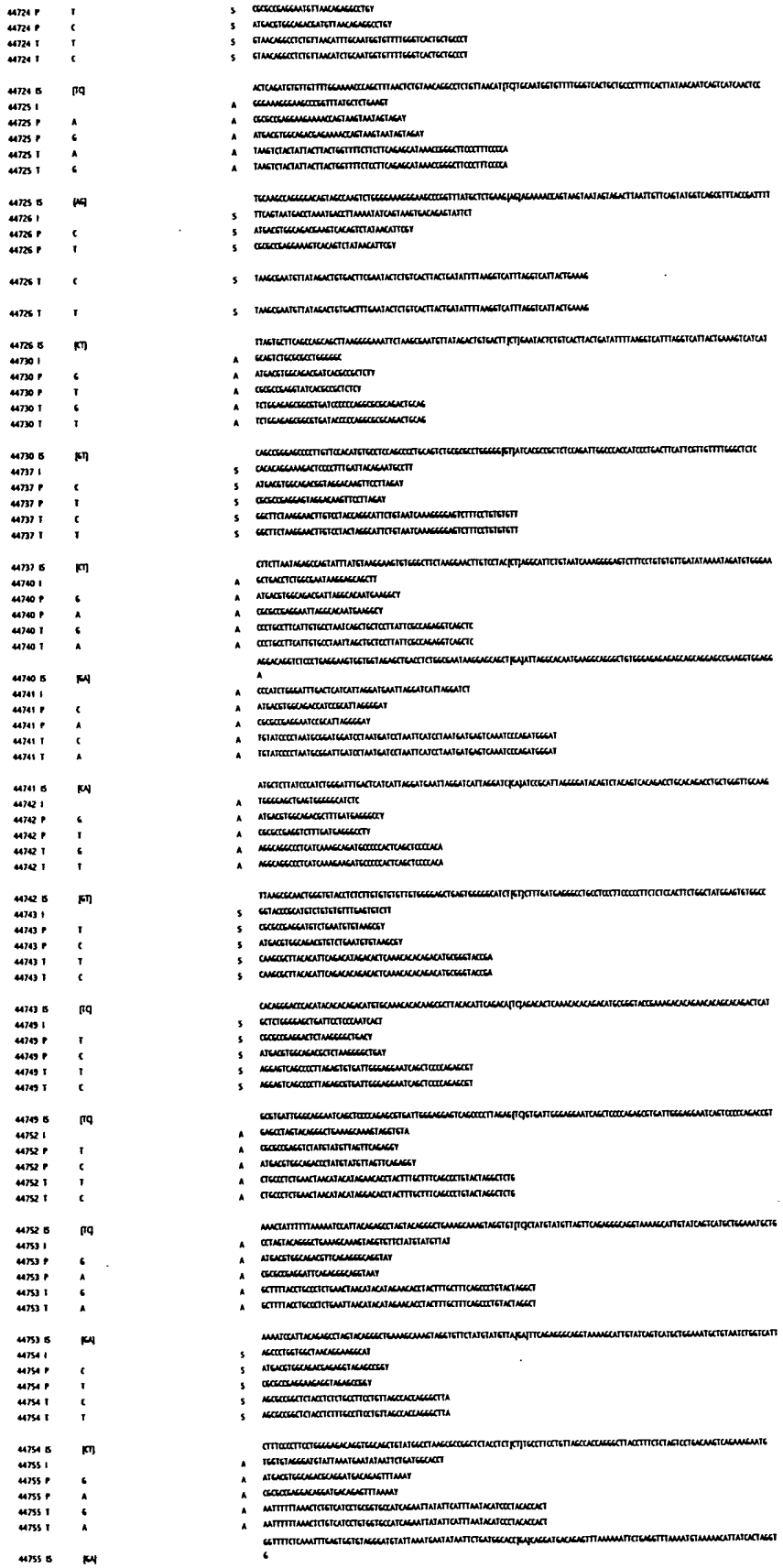




FIGURE 129F



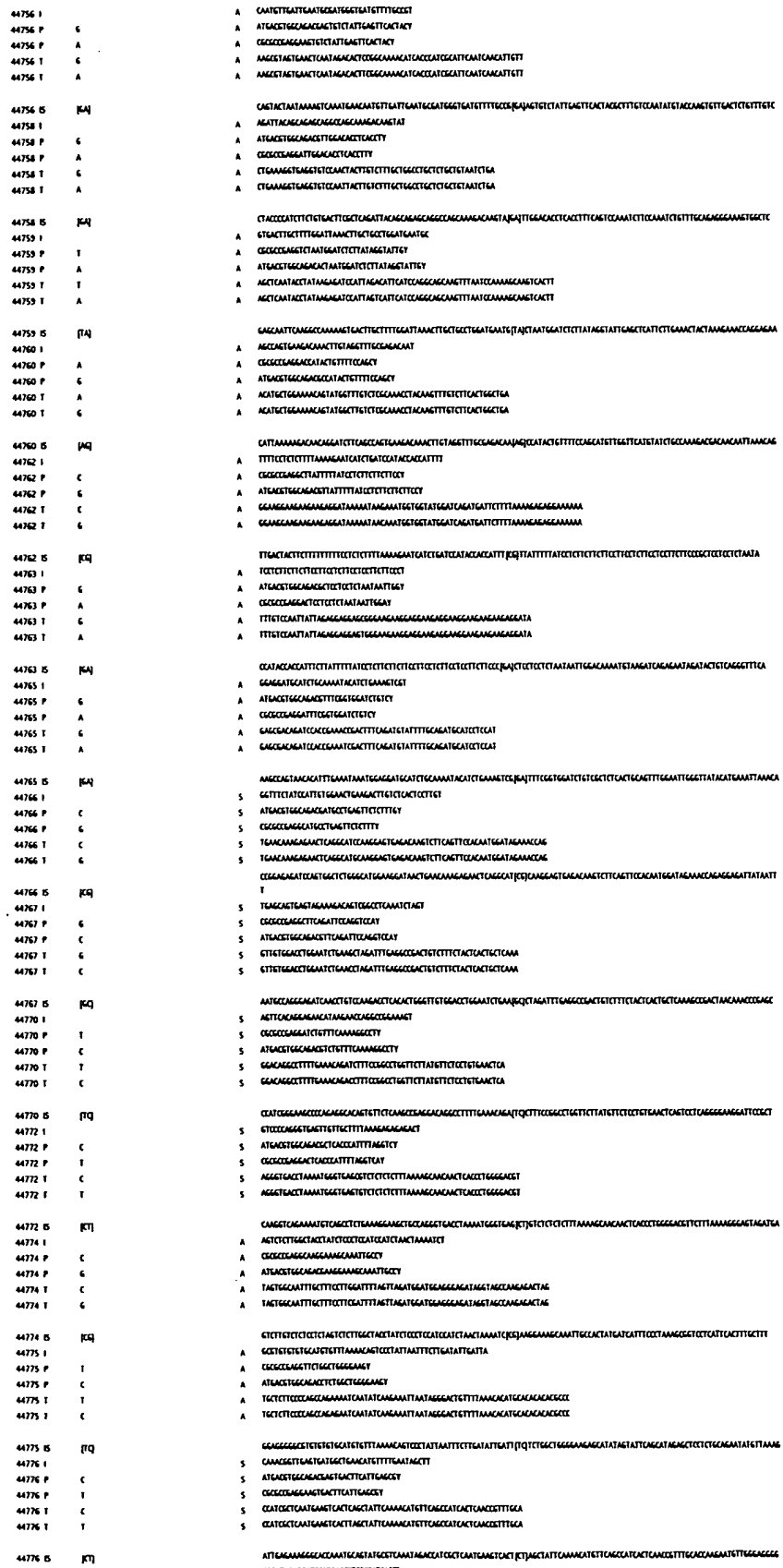


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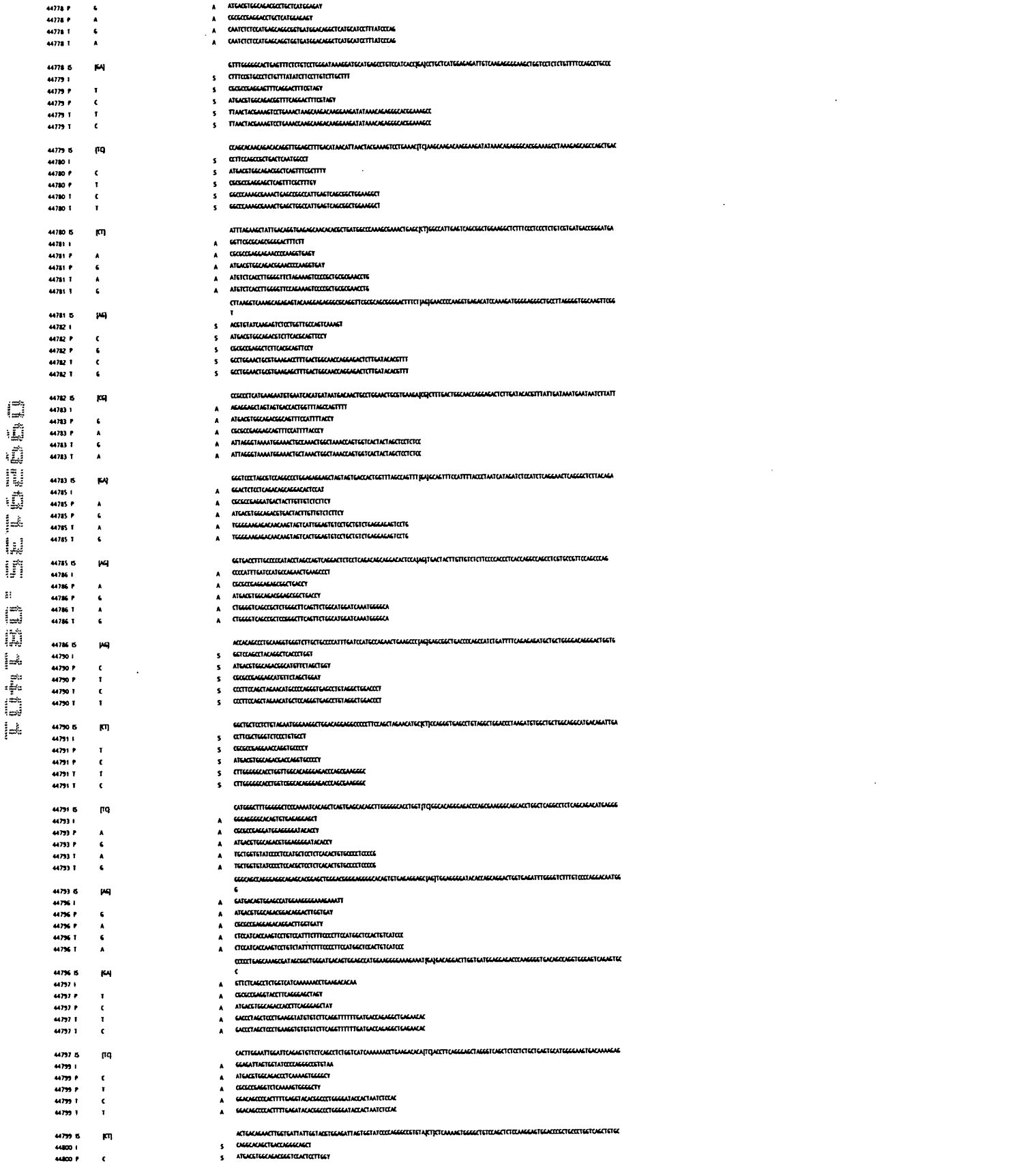
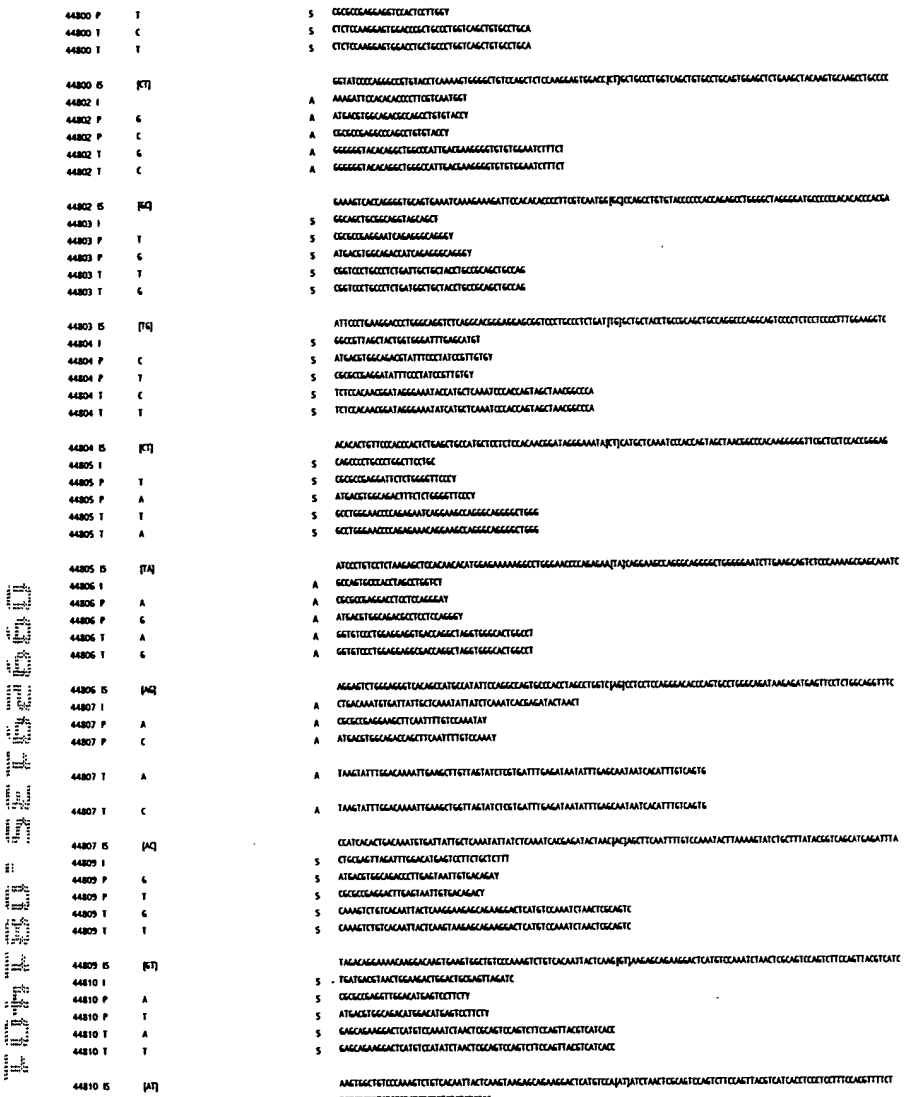


FIGURE 129F



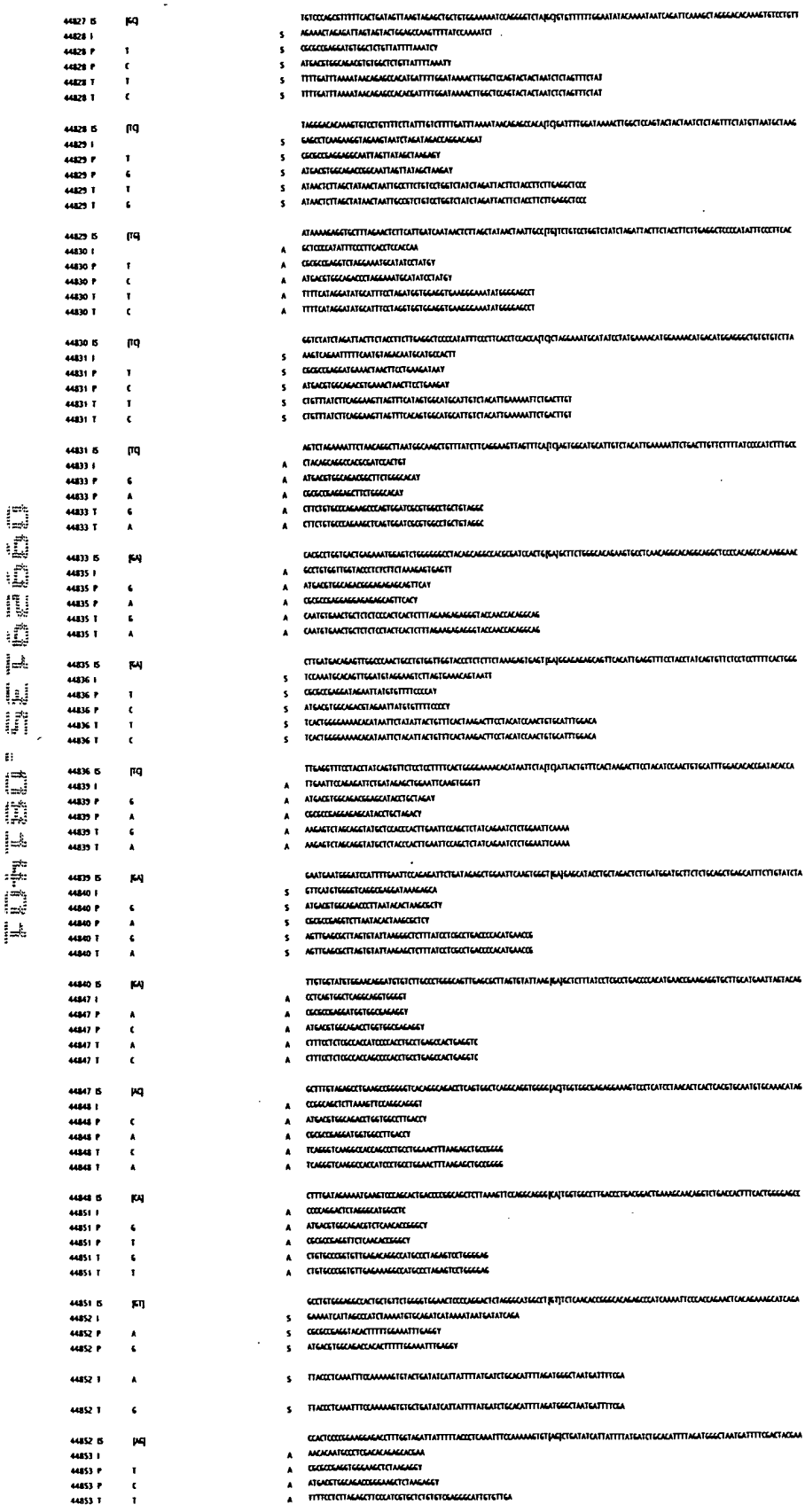
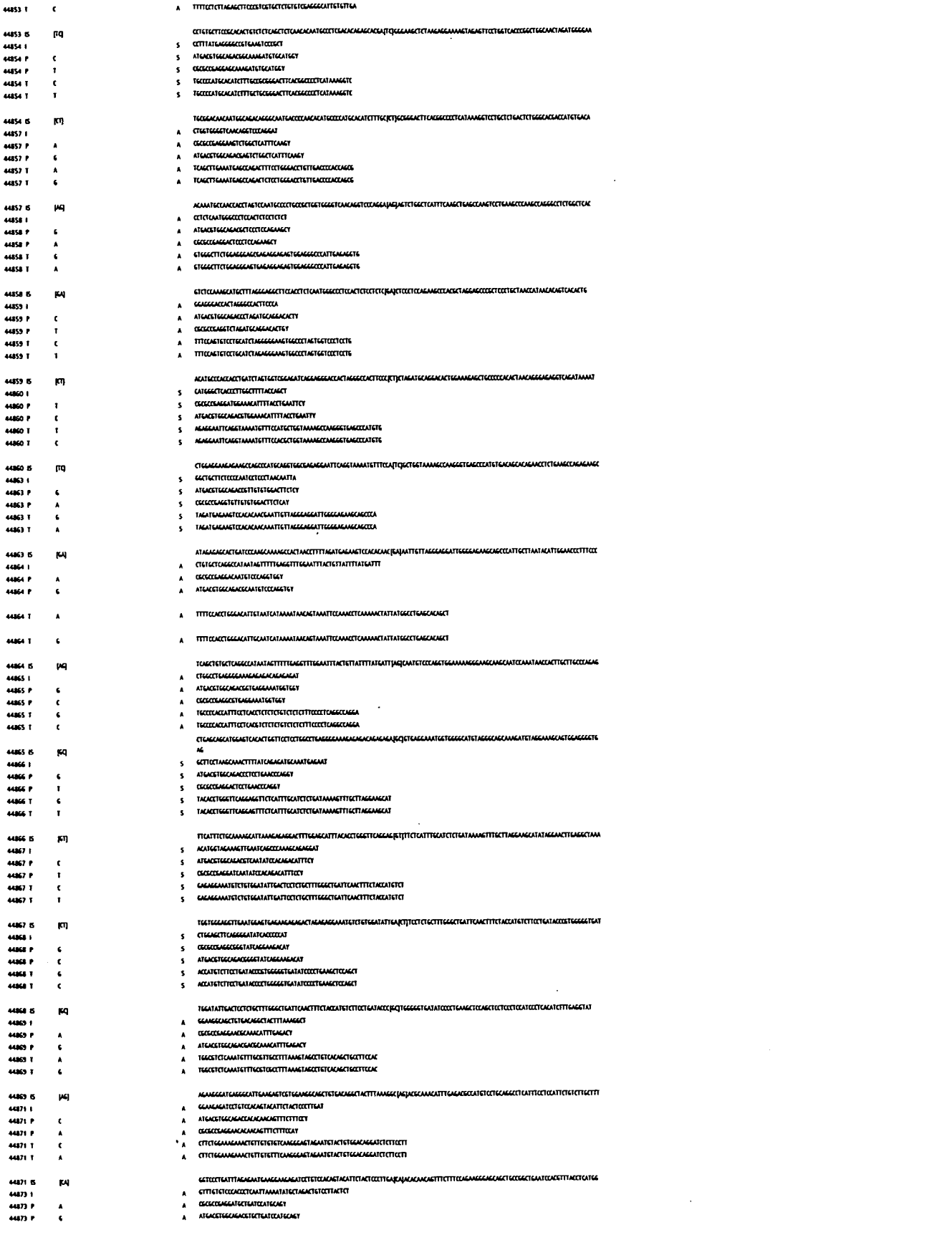
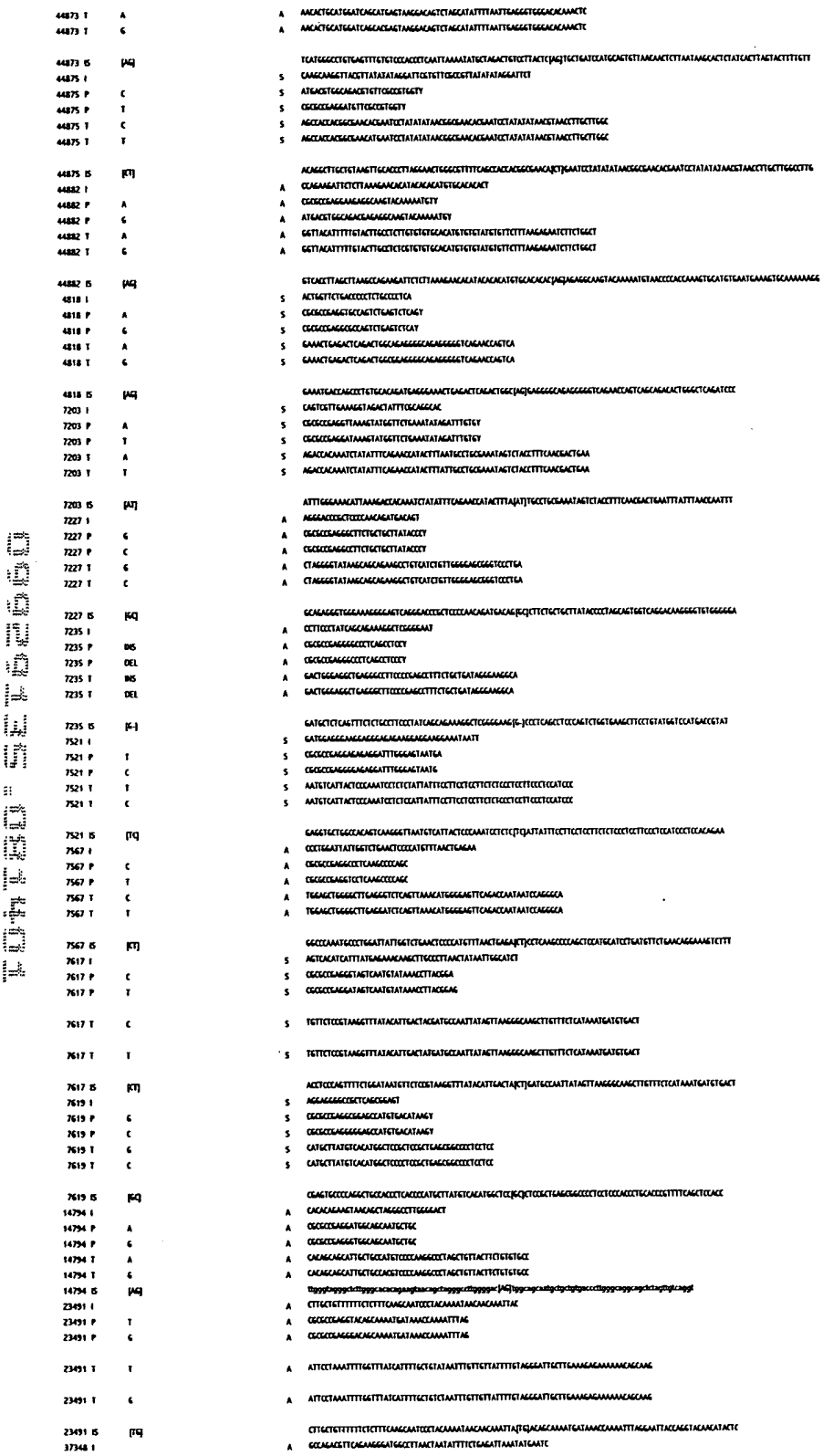
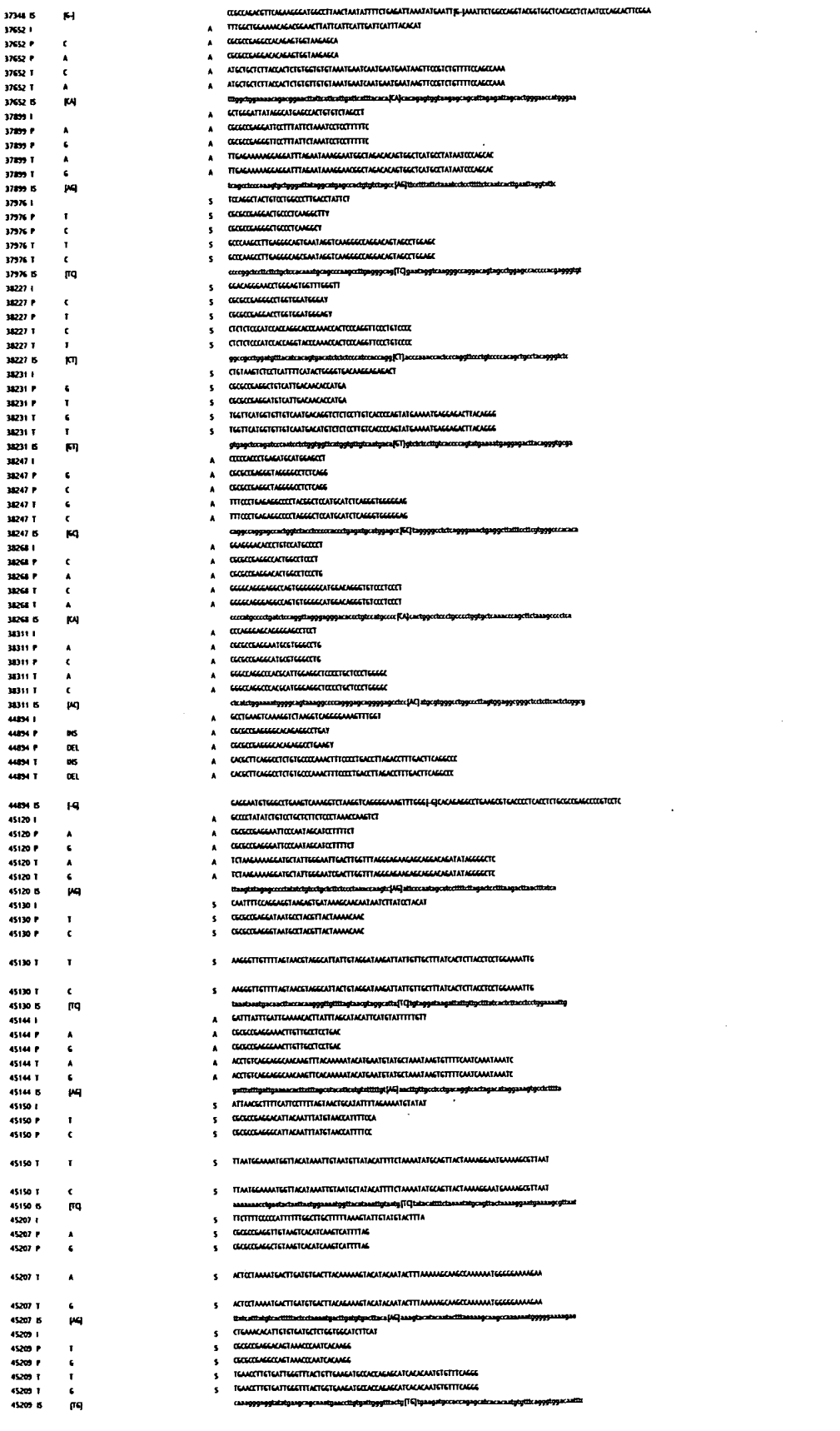


FIGURE 129F







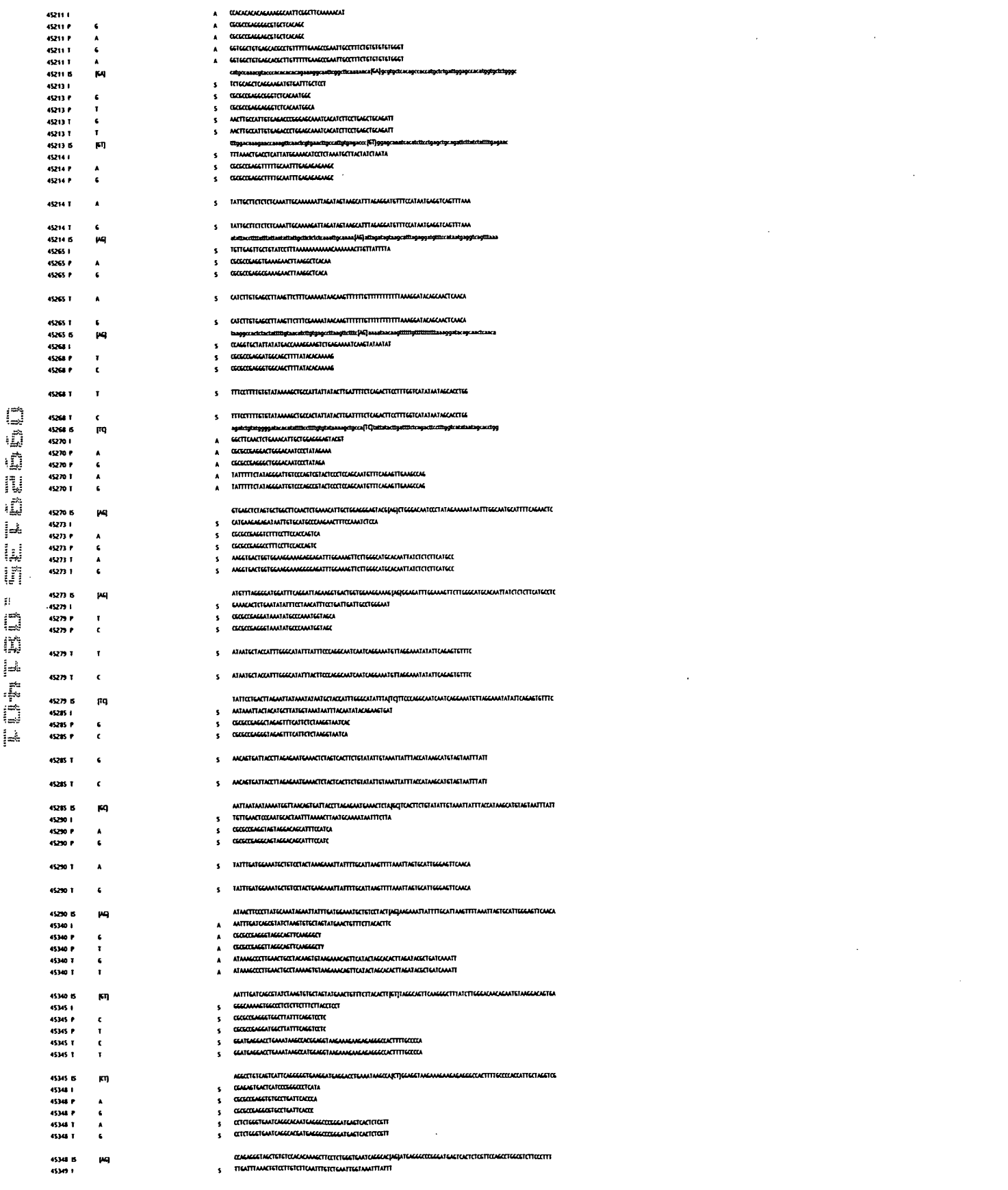


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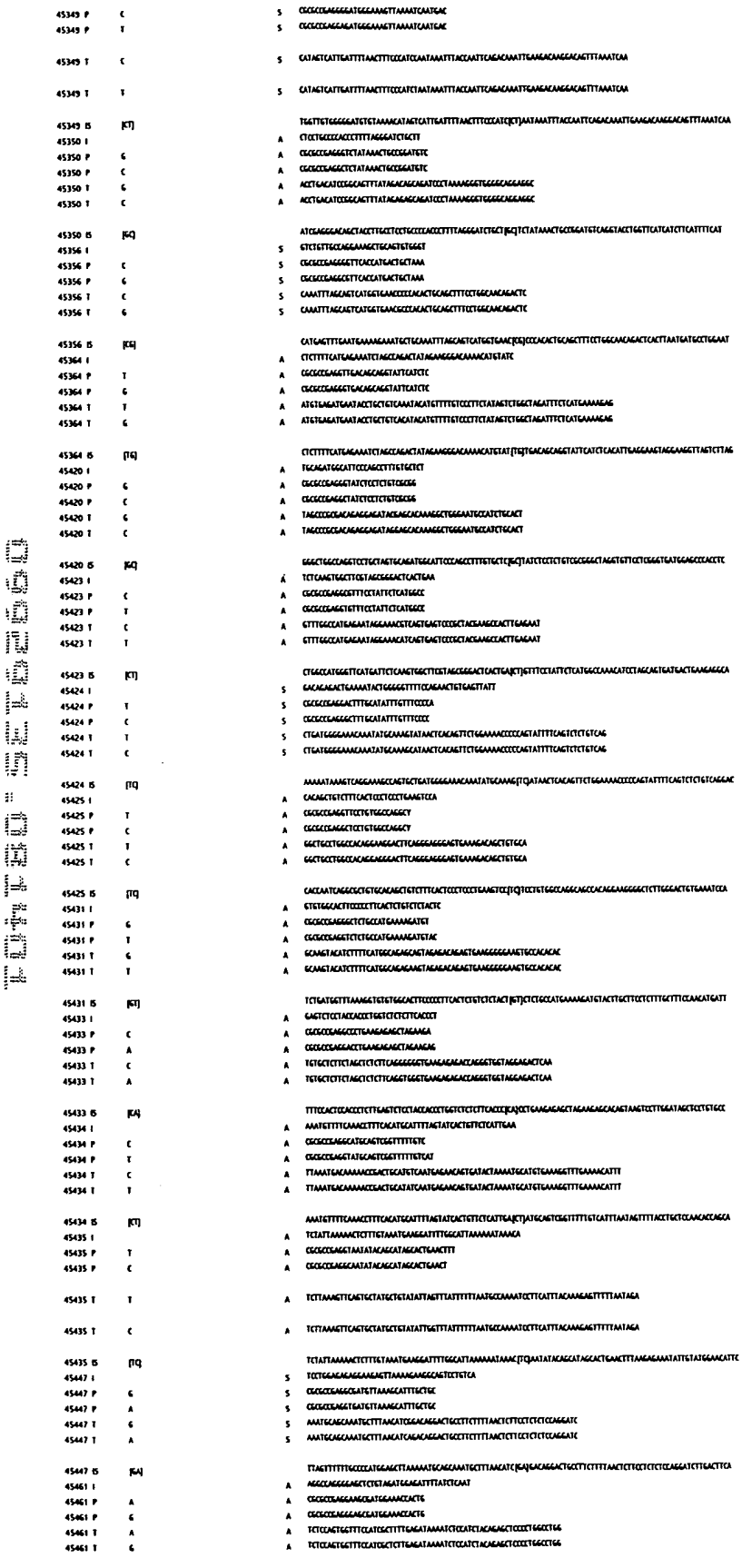


FIGURE 129F

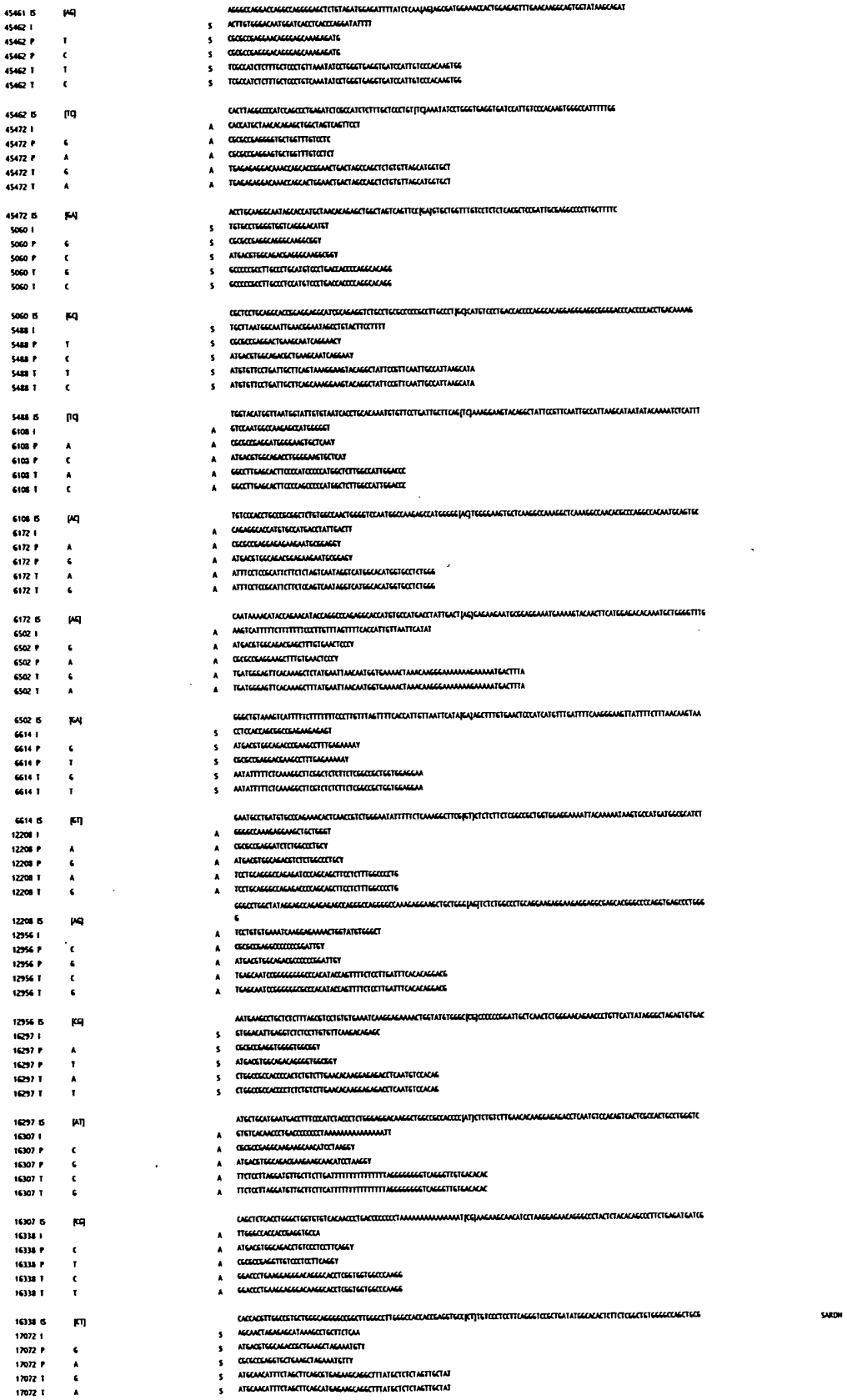


FIGURE 129F

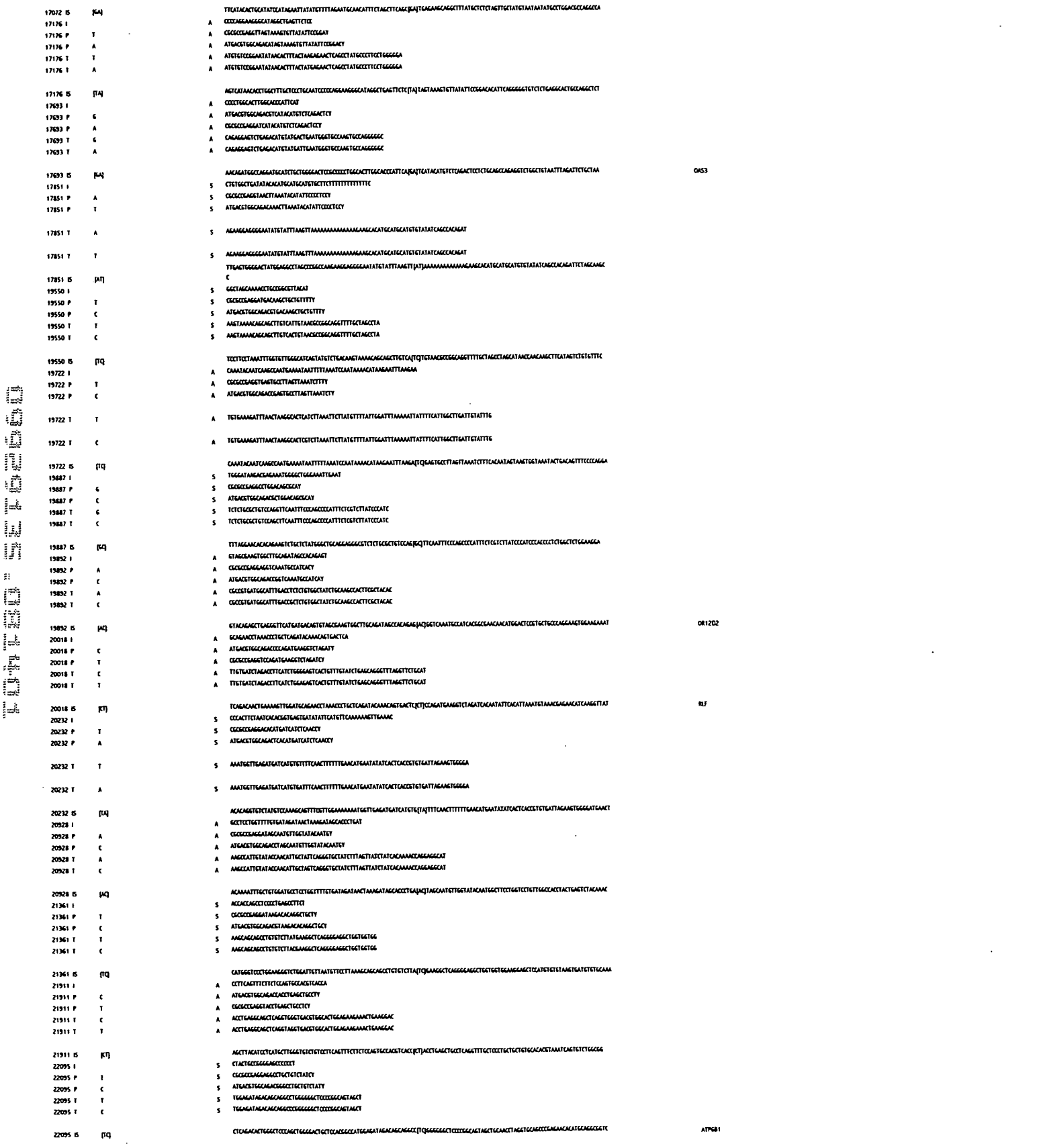
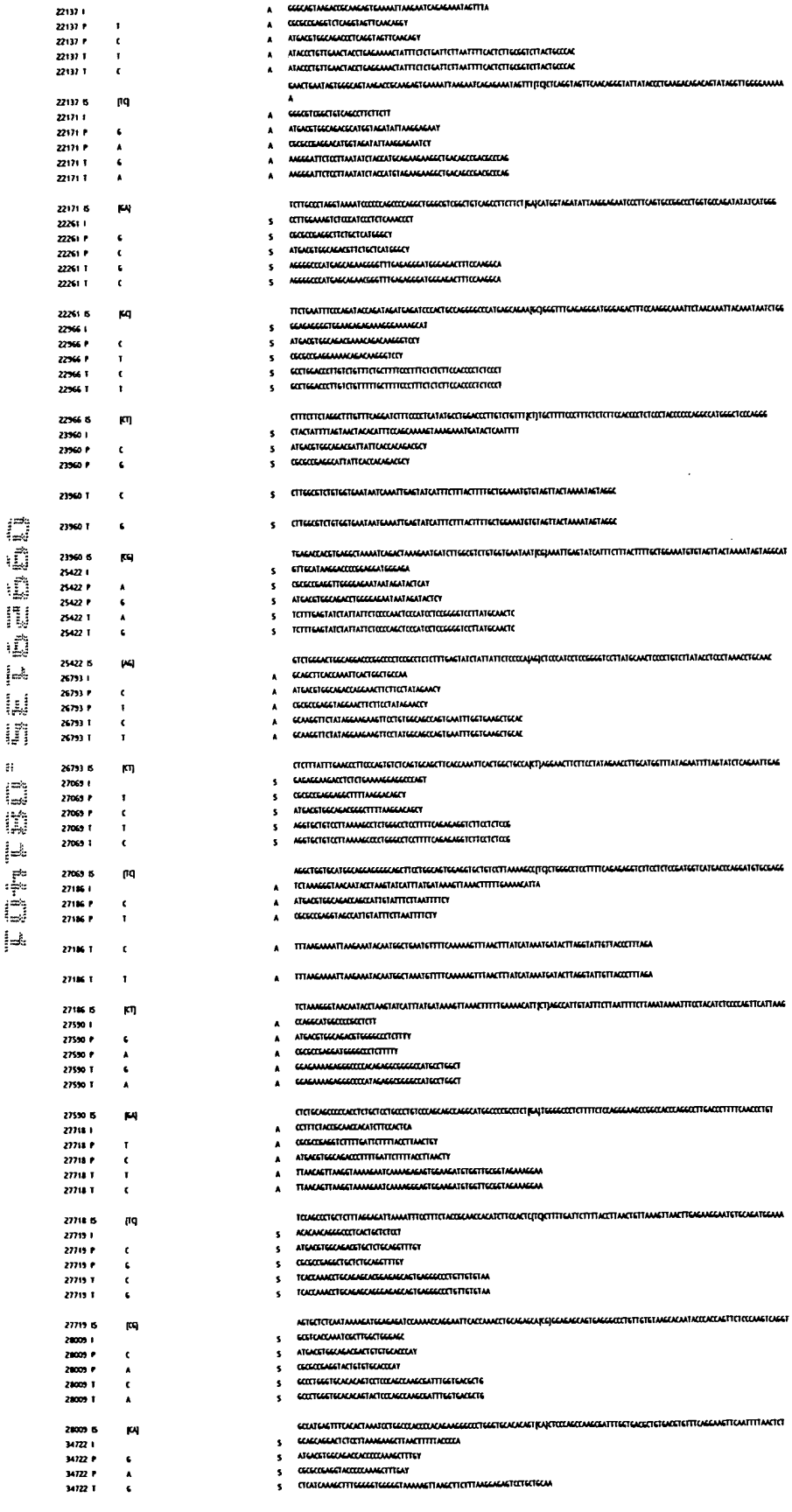
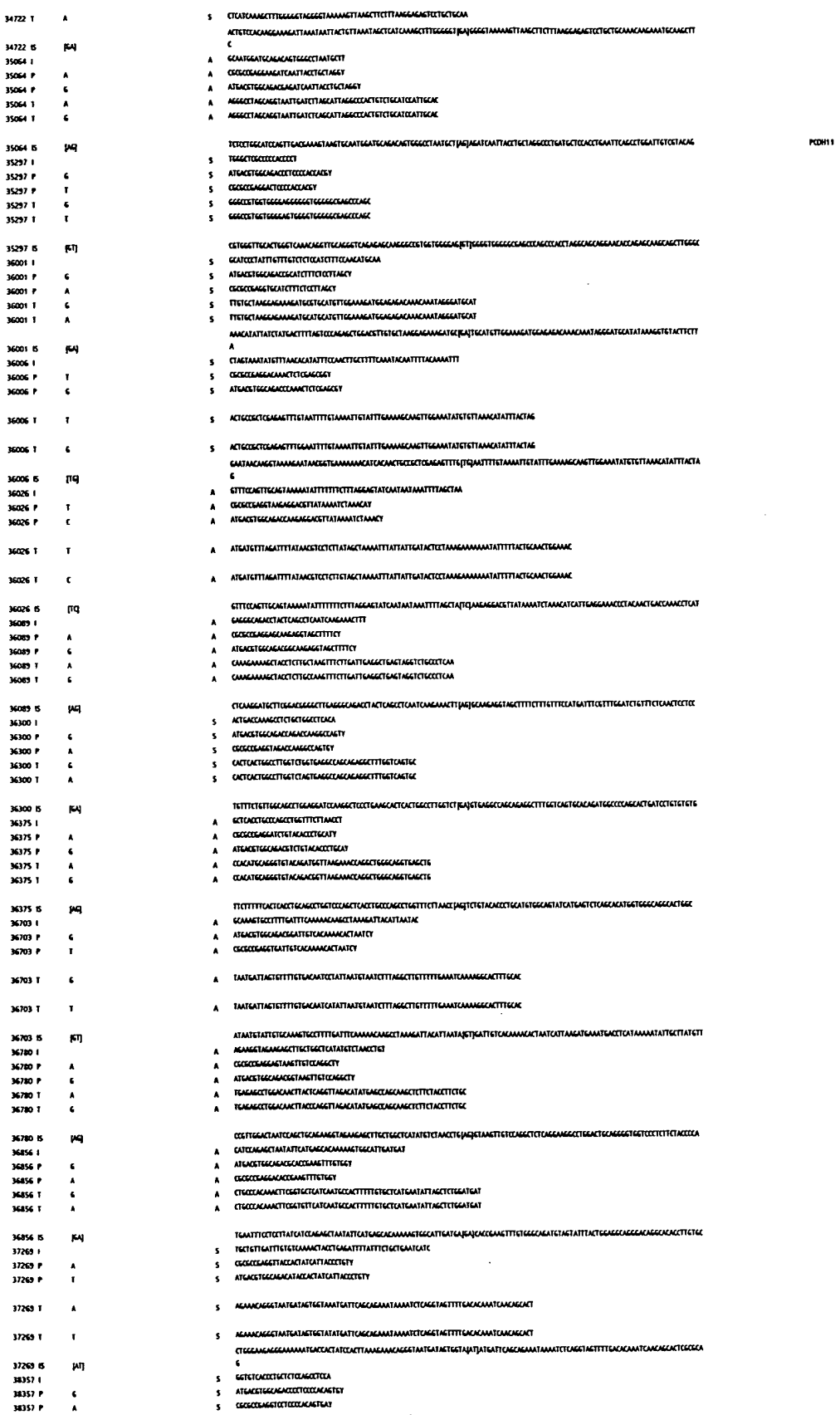
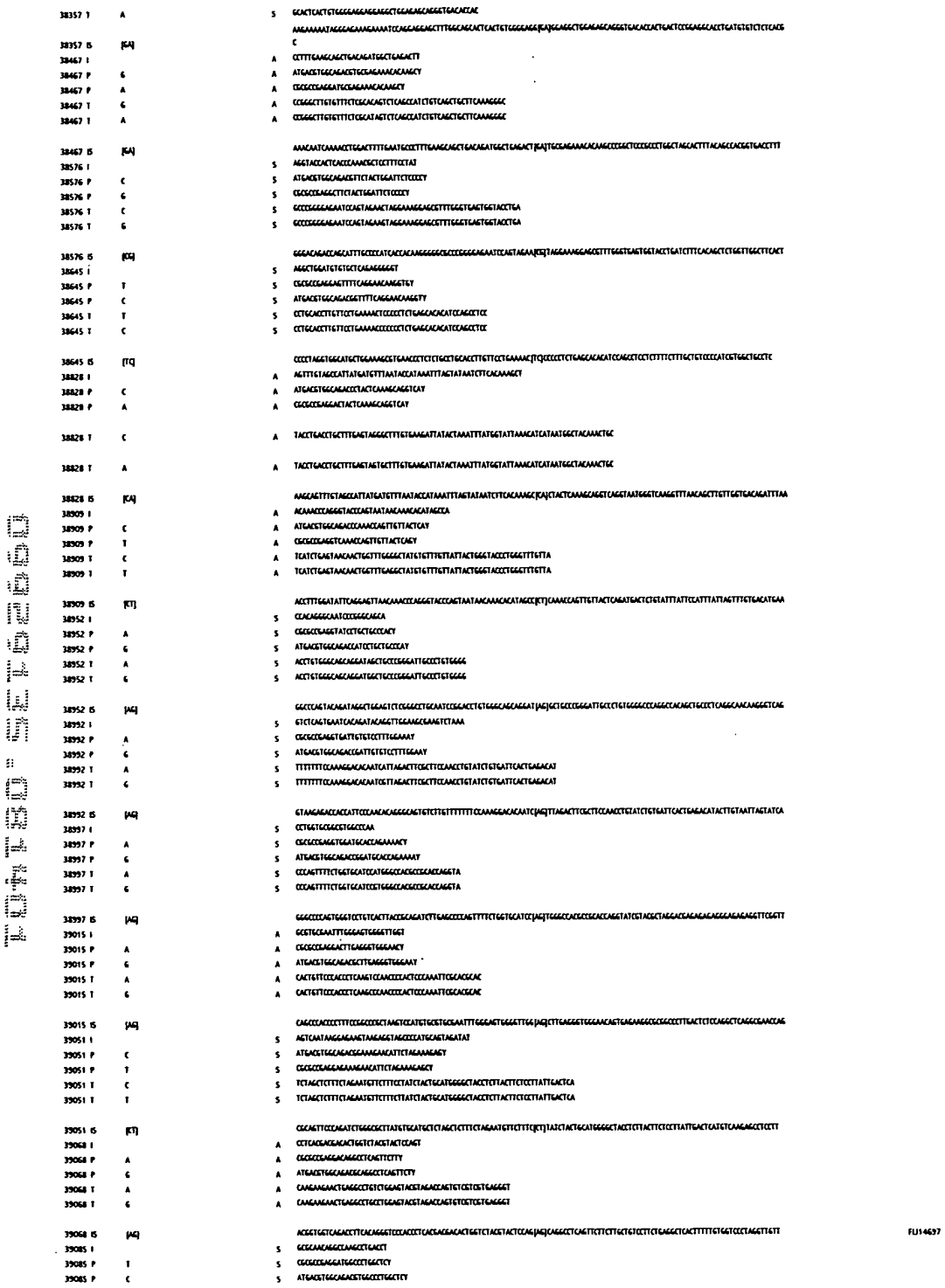


FIGURE 129F







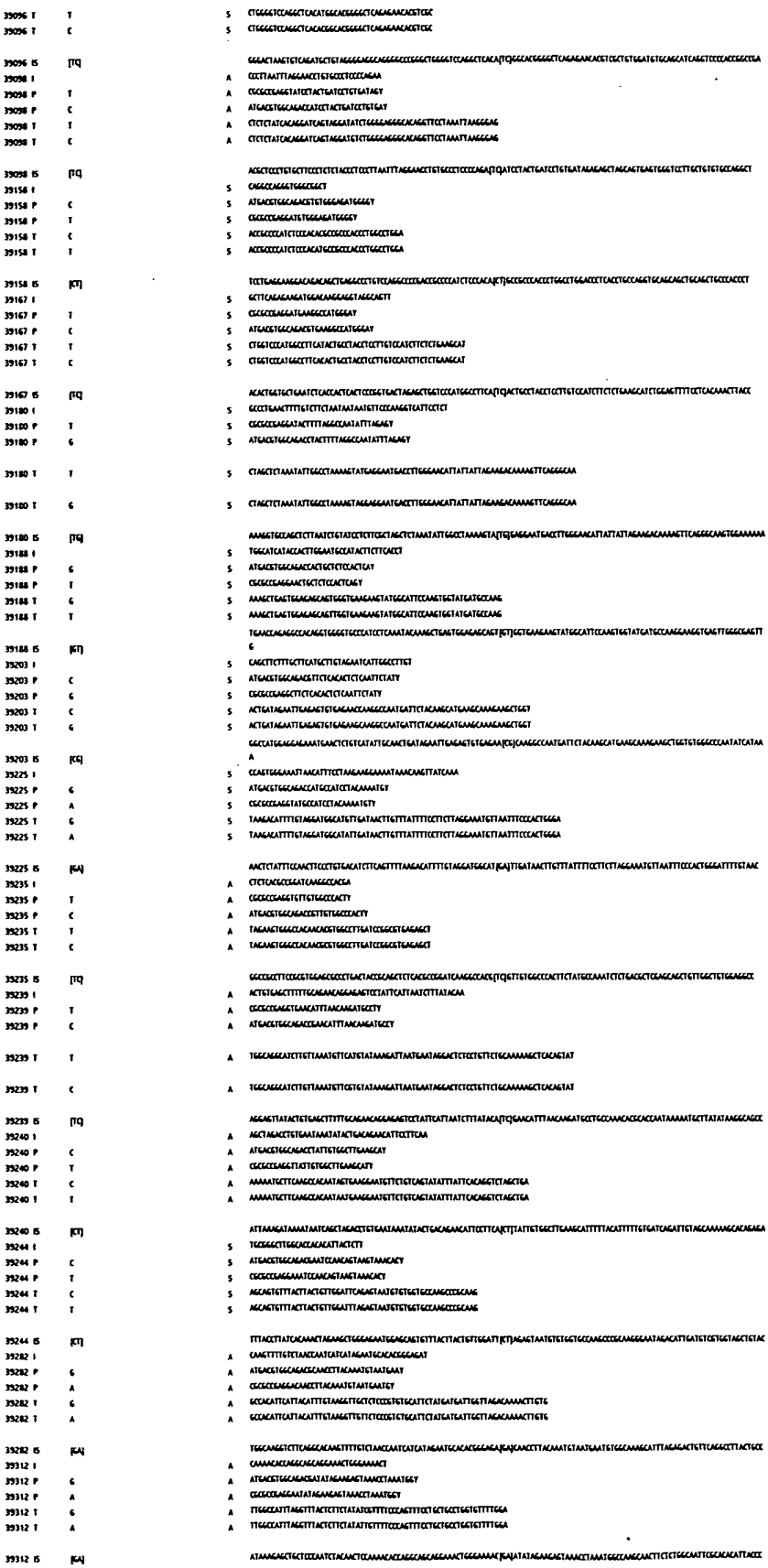
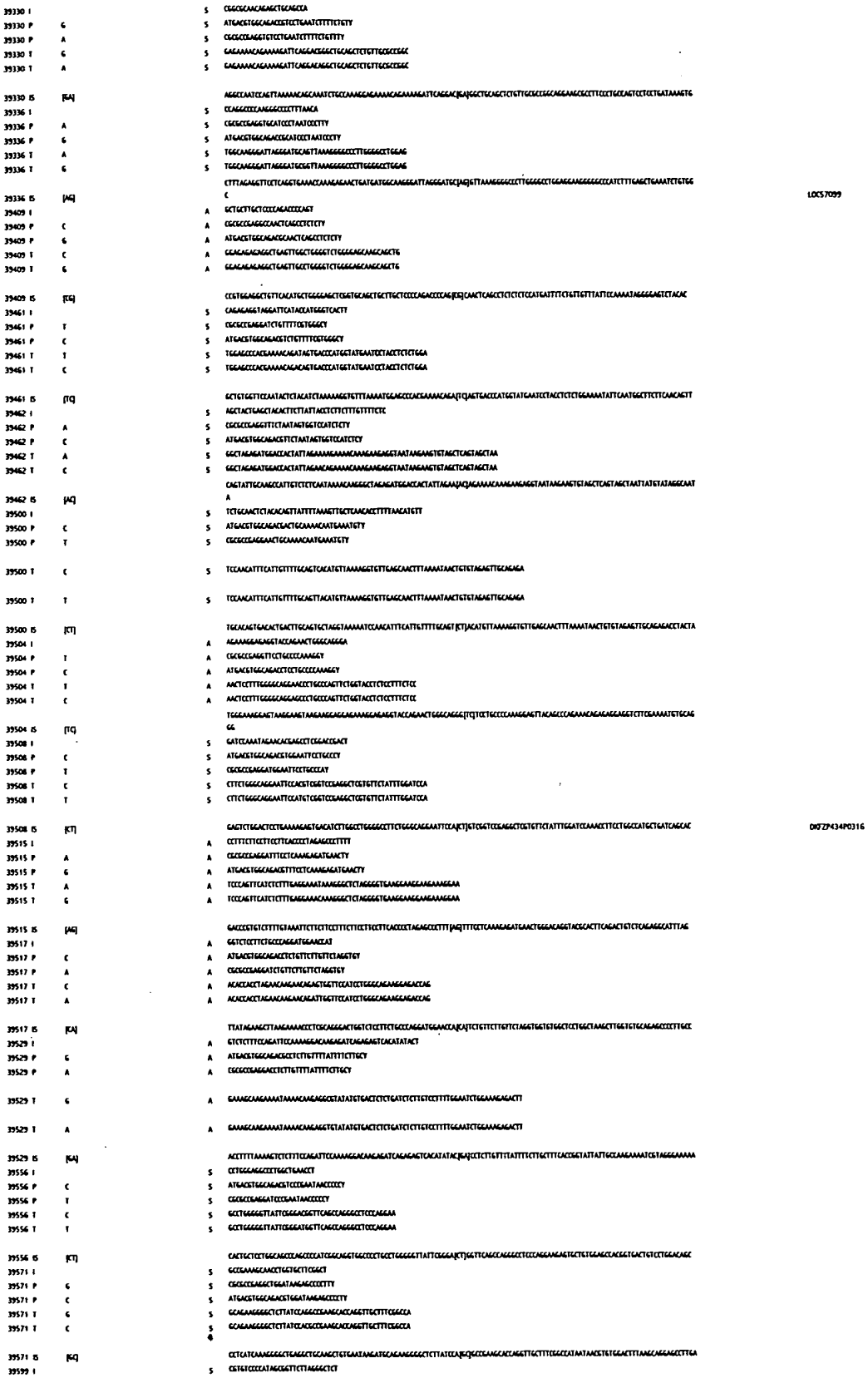


FIGURE 129F


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39330 P A S CGGCCCAAGGTGTCTGAATCTTTTCTGTTTY
39330 T G S GAGAAAACAGAAAAGATTCAGGACAGGCTGCAGCTCTGTTGCGCCCGGC
39330 T A S GAGAAAACAGAAAAGATTCAGGACAGGCTGCAGCTCTGTTGCGCCCGGC
39330 IS [GA] AGGCCAATCCAGTTAAAAACAGCAAATCTGCCAAAGCAGAAAACAGAAAAGATTCAGGACRAGGCTGCAGCTCTGTTGCGCCCGCAGGAAGCGCCTTCCCTGCCAGTCCTCCTGATAAAGTG
39336 I S CCAGCCCCCAAGGCCCCTTTAACA
39336 P A S CGCGCCGAGGTGCATCCCTAATCCCTTY
39336 P G S ATGACGTGGCAGACCGCATCCCTAATCCCTY
39336 T A S TGGCAAGGGATTAGGGATGCAGTTAAAGGGGCCCTTGGGGCCTGGAG
39336 T G S TGCCAAGGGATTAGGGATGCGGTTAAAGGGGCCCTTGGGGCCTGGAG
39336 IS [AC] CTTTAGAGGTTCCTCAGGTGAAACCAAAGAAACTGATGATGCCAAGGGATTAGGGATCCAAGGTTAAAGGGCCCTTGGGGCCTGGAGCAAGGGGCCCATCTTTGAGCTGAAATCTGTGG C LOC57099
39409 I A GCTGCTTGCTCCCCAGACCCAGT
39409 P C A CGCGCCCAGGCCAACTCAGCCTCTCTY
39409 P G A ATGACGTGGCAGACGCAACTCAGCCTCTCTY
39409 T C A GCAGAGACAGGCTGAGTTGCCTGGGGTCTCTGGGCAGCAAGCAGCTG
39409 T G A GCAGAGACAGGCTGAGTTGCCTGGGGTCTCTGGGCAGCAAGCAGCTG
39409 IS [CG] CCGTGCAGGCTGTTCACATGCTGGGCAGCTCGGTGCAGCTGCTTGCTCCCCAGACCCCAGRCGCAACTCAGCCTCTCTCTCCATGATTTTCTGTTGTTTATTCCAAAATAGGGGAGTCTACAC
39461 I S CAGACAGCTAGGATTCATACCATGGGTCACTT
39461 P T S CGCGCCGAGGATCTGTTTTCGTGGGCY
39461 P C S ATGACGTGGCAGACGTCTGTTTTCGTGGGCY
39461 T T S TGCAGCCCACAAAACAGATAGTGACCCATGGTATGAATCCTACCTCTCTGGA
39461 T C S TGGAGCCCACAAAACAGACAGTGACCCATGGTATGAATCCTACCTCTCTGGA
39461 IS [TC] GCTGTGGTTCCAATACTCTACATCTAAAAAGGTGTTTAAAATGGAGCCCACAAAACAGAYTCAGTGACCCATGGTATGAATCCTACCTCTCTGGAAAATATTCAATGGCTTCTTCAACAGTT
39462 I S AGCTACTGAGCTACACTTCTTATTACCTCTTCTTTGTTTTCTC
39462 P A S CGCGCCGAGGTTCTAATAGTGGTCCATCTCTY
39462 P C S ATGACGTGGCAGACGTCTAATAGTGGTCCATCTCY
39462 T A S GGCTAGAGATGGAGCACTATTAGAAAAGAAAACAAAGAAGAGGTAATAAGAAGTGTAGCTCAGTAGCTAA
39462 T C S GGCTAGAGATGGAGCACTATTAGAAACAGAAAACAAAGAAGAGGTAATAAGAAGTGTAGCTCAGTAGCTAA
39462 IS [AC] CAGTATTGCAAGCCATTGTCTCTCAATAAAACAAGGGCTAGAGATGGACACTACTATTAGAAJACAGAAAACAAAGAAGAGGTAATAAGAAGTGTAGCTCAGTAGCTAATTATGTATAGGCAAT A
39500 I S TCTGCAACTCTACACAGTTATTTTAAAGTTGCTCAACACCTTTTAACATGTT
39500 P C S ATGACGTGGCAGACGACTGCAAAACAATGAAATGTY
39500 P T S CGCGCCGAGAACTGCAAAACAATGAAATGTY
39500 T C S TCCAACATTTCATTGTTTTGCAGTCACATGTTAAAAGGTGTTGAGCAACTTTAAAATAACTGTGTAGAGTTGCAGAGA
39500 T T S TCCAACATTTCATTGTTTTGCAGTTACATGTTAAAAGGTGTTGAGCAACTTTAAAATAACTGTGTAGAGTTGCAGAGA
39500 IS [CT] TGCACAGTGACACTGACTTGCAGTGCTAGGTAAAAATCCAACATTTCATTGTTTTGCAGTRCATGTTAAAAGGTGTTGAGCAACTTTAAAATAACTGTGTAGAGTTGCAGAGACCTACTA
39504 I A AGAAAGAAGAGGTACCAGAACTGGGCAGGGA
39504 P T A CGCGCCGAGGTTCGTGCCCCAAAGGY
39504 P C A ATGACGTGGCAGACCTCGTGCCCCAAAGGY
39504 T T A AACTCCTTTGGGGCAGGAACCCTGCCCAGTTCTGGTACCTCTCCTTTCTCC
39504 T C A AACTCCTTTGGGGCAGGAGCCTGCCCAGTTCTGGTACCTCTCCTTTCTCC
39504 IS [TC] TGGCAAAGCAGTAAGCAAGTAAGAAGCAGCAGAAAAGCAGAGGTACCAGAACTGGGCAGGGCTCGTGCTGCCCCAAAGAAGTTACAGCCCAGAAACAGACAGCAGGTCTTCGAAAATGTGCAG GG
39508 I S GATCCAAATAGAACACGAGCCTCGGACCGACT
39508 P C S ATGACGTGGCAGACGTGGAATTCCTGCCCY
39508 P T S CGCGCCGAGGATGGAATTCCTGCCCAY
39508 T C S CTTCTGGGCAGGAATTCCACGTGGGTCCGAGGCTCGTGTTCTATTTGGATCCA
39508 T T S CTTCTGGGCAGGAATTCCATGTCGGTCCGAGGCTGGTGTTCTATTTGGATCCA
39508 IS [CT] GAGTCTGCACTCCTGAAAAGAGTGACATCTTGGCTTGGGGCCTTCTGGGCAGGAAATTCCAKCTGTCGGTCCGAGGCTCGTGTTCTATTTGGATCCAAACCTTCCTGGCCATGCTGATCAGCAC D9Z2P434P0316
39515 I A CCTTTCTTCCTTCCTTCACCCCTAGAGGCCTTTT
39515 P A A CGCGCCGAGGATTTCCTCAAAGAGATGAACTY
39515 P G A ATGACGTGGCAGACGTTTCCTCAAAGAGATGAACTY
39515 T A A TCCCAGTTCATCTCTTTGAGGAAATAAAGGCTCTAGGGGTGAAGGAAGGAAGAAAGAA
39515 T G A TCCCAGTTCATCTCTTTGAGGAAACAAAGGCTCTAGGGGTGAAGGAAGGAAGAAAGAA
39515 IS [AG] GACCCGTGTCTTTTGTAAATTCTTCTTCCTTTCTTCCTTCACCCCTAGAGCCCTTTJAGTTTCCTCAAAGAGATGAACTGGGACAGGTACGCACTTCAGACTGTCTCAGAGGCATTTAG
39517 I A GGTCTCCTTCTGCCCAGGATGGAACCAT
39517 P C A ATGACGTGGCAGACCTCTGTTCTTGTTCTAGGTGY
39517 P A A CGCGCCGAGGATCTGTTCTTGTTCTAGGTGY
39517 T C A ACACCACCTAGAACAAGAACAGAGTGGTTCCATCCTGGGCAGAAGGAGACCAG
39517 T A A ACACCACCTAGAACAAGAACAGATTGGTTCCATCCTGGGCAGAAGGAGACCAG
39517 IS [CA] TTATAGAAGCTTAAGAAAACCCTGCAGGGACTGGTCTCCTTCTGCCCAGGATGGAACCAJCATCTGTTCTTGTTCTAGGTGGTGTGGCTCCTGGCTAAGCTTGGTGTGCAGAGCCCCTTGCC
39529 I A GTCTCTTTCCAGATTCCAAAGGAACAAGAGATCAGAGAGTCACATATACT
39529 P G A ATGACGTGGCAGACGCCTCTGTTTTATTTTCTTGCY
39529 P A A CGCGCCGAGAACCTCTTGTTTTATTTTCTTGCY
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39529 IS [GA] ACCTTTTAAAAGTCTCTTTCCAGATTCCAAAAGGACAAGAGATCAGAGAGTCACATATACJGAJCCTCTTGTTTTATTTTCTTGCTTTCACCGGTATTATTGCCAAGAAAATCGTAGGGAAAAA
39556 I S CCTGGCAGGCCCTGGCTGAACCT
39556 P C S ATGACGTGGCAGACGTCCCGAATAACCCCCY
39556 P T S CGCGCCGAGGATCCCGAATAACCCCCY
39556 T C S GCCTGGGGGTTATTCGGGACGGTTCAGCCAGGGCCTCCCAGGAA
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39571 I S GCCGAAGCAACCTGGTGCTCGGCT
39571 P G S CGCGCCGAGCTGGATAAGAGCCCCTTY
39571 P C S ATGACGTGGCAGACGTGGATAAGAGCCCCTY
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39599 I S CGTGTCCCCATAGCGGTTCTTAGGGCTCT
39599 P T S CGCGCCGAGGATGCCAAAGCCAACAY
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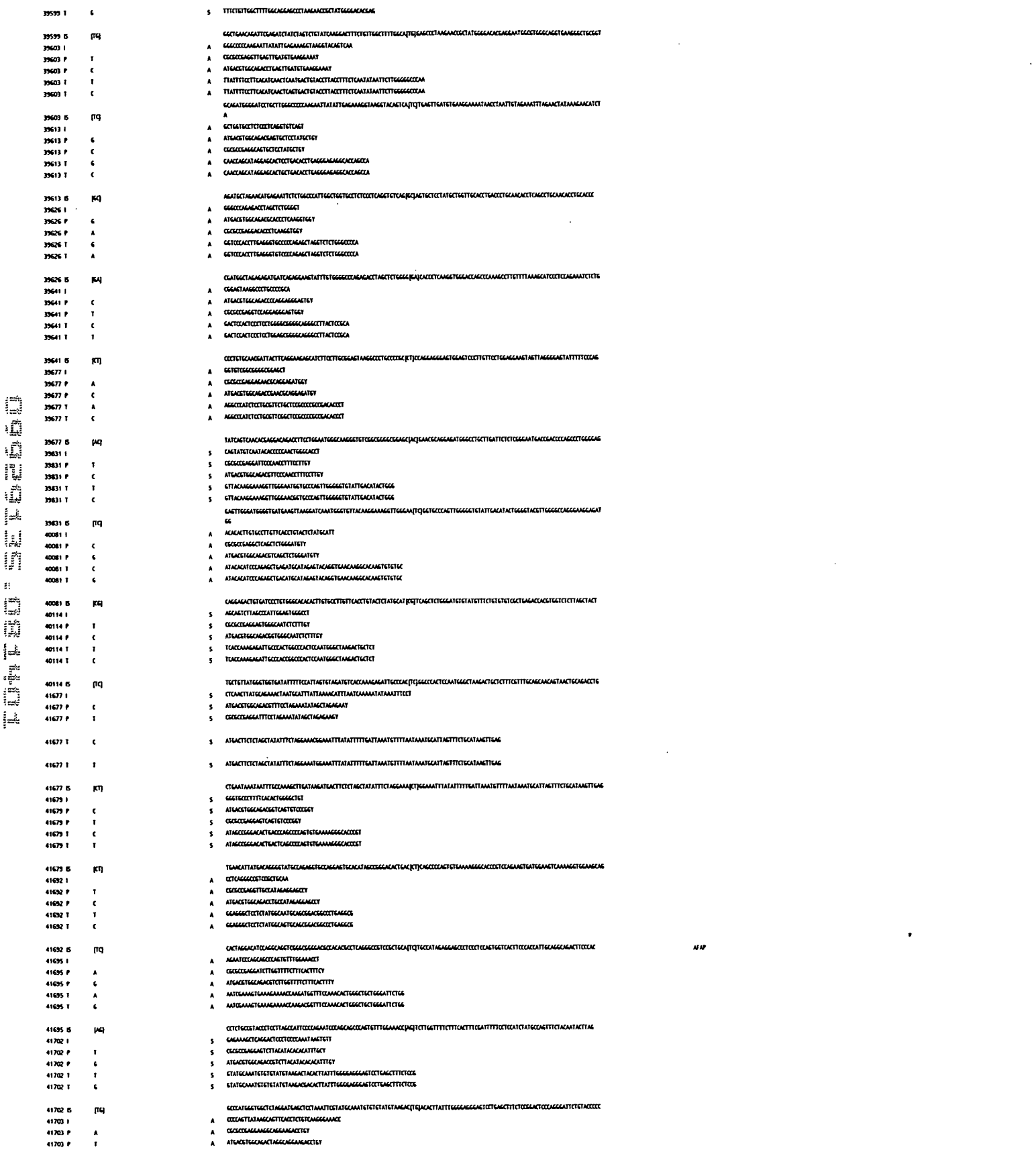
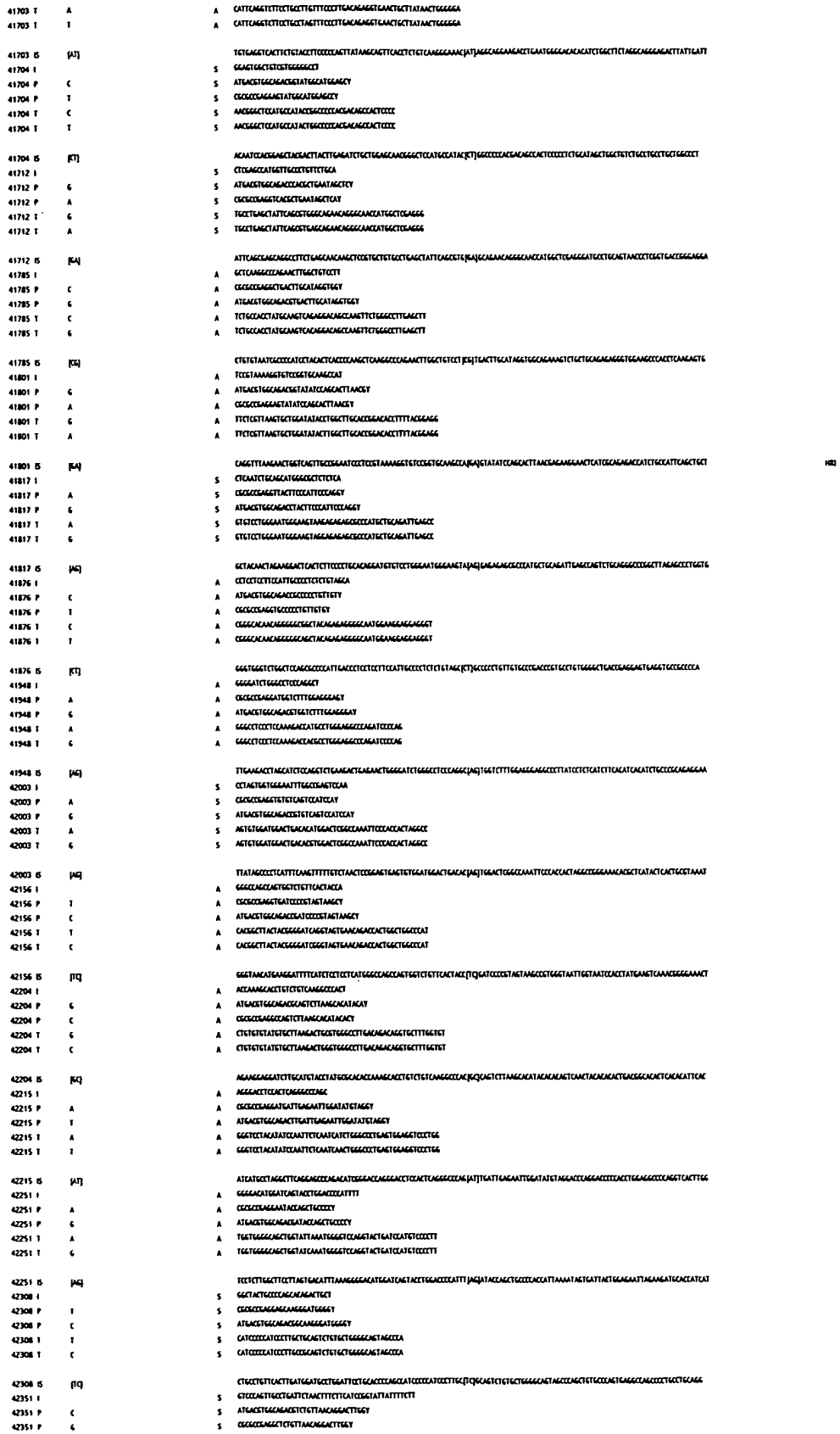
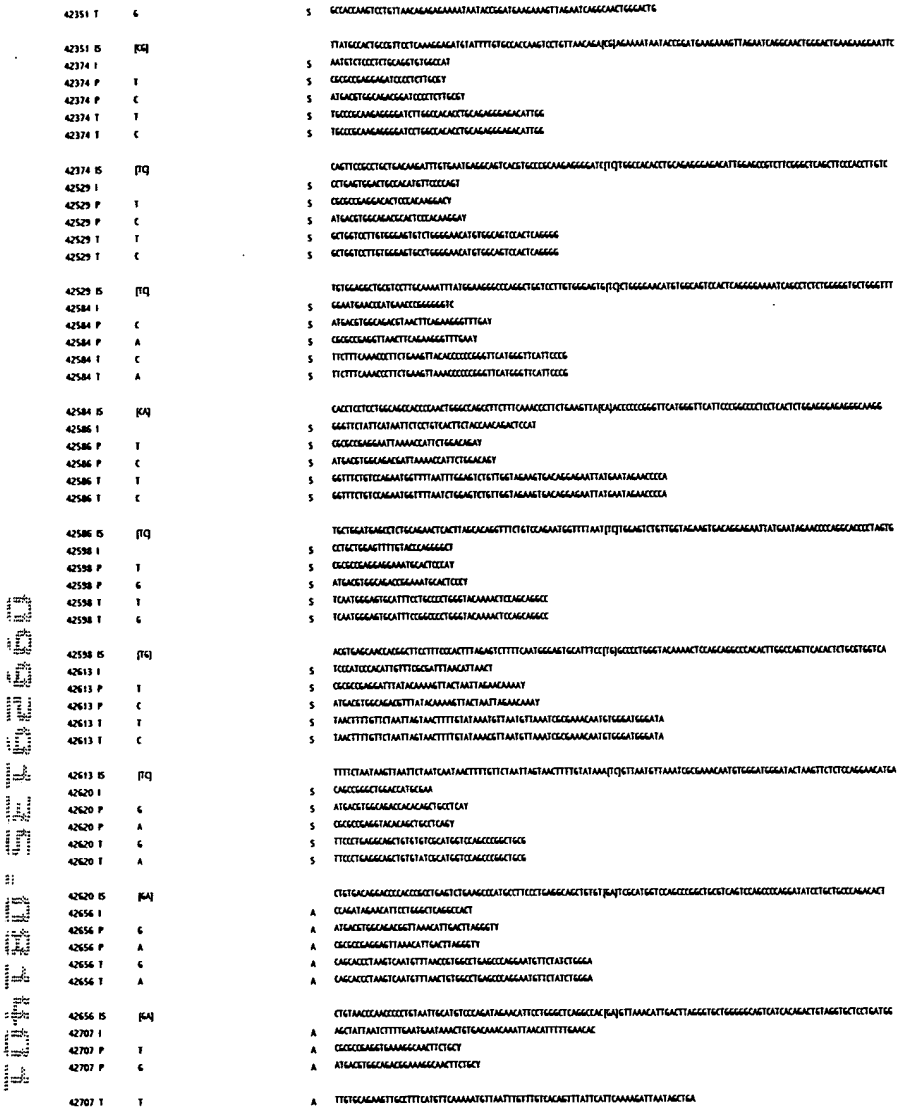


FIGURE 129F





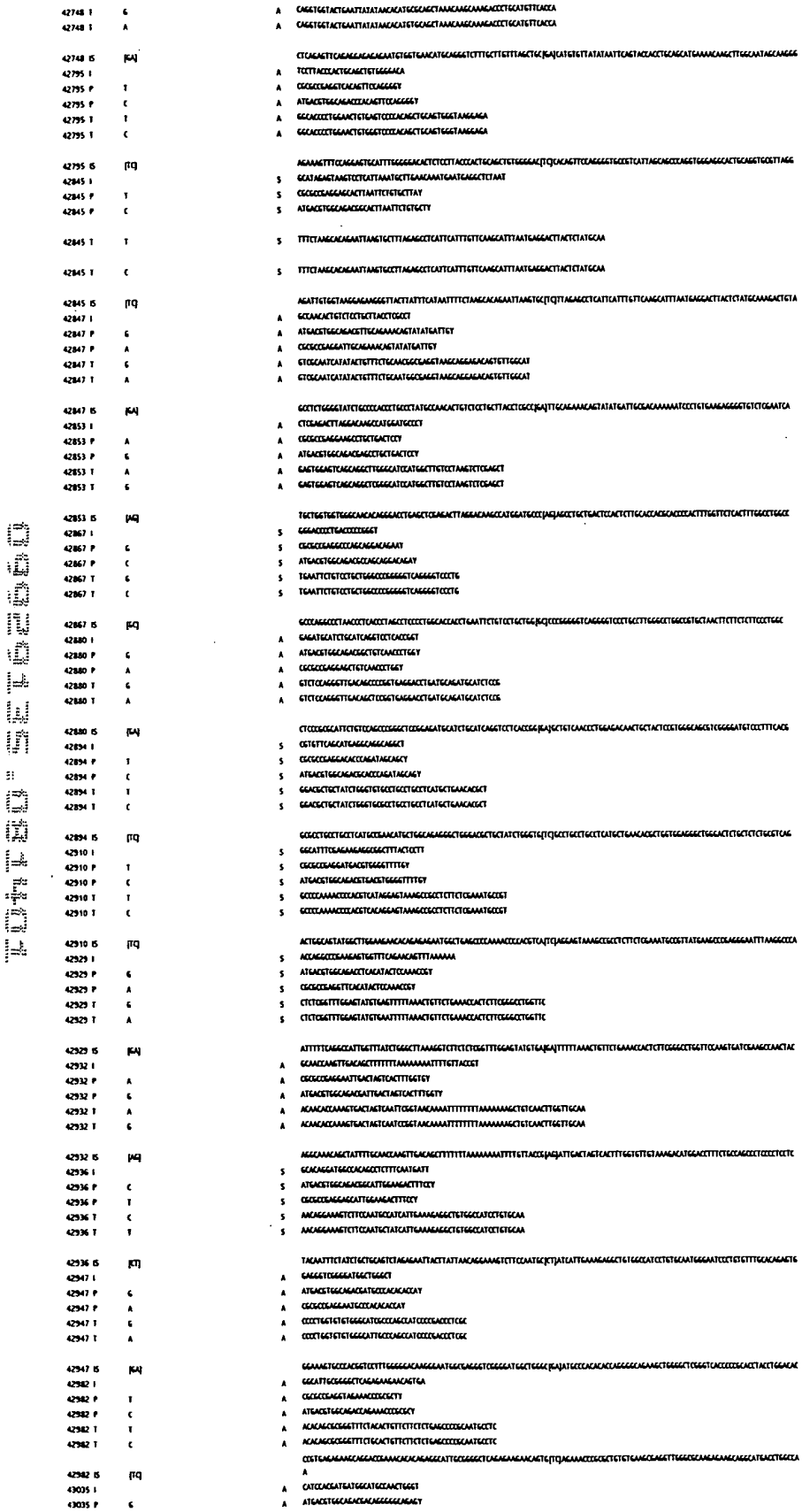


FIGURE 129F

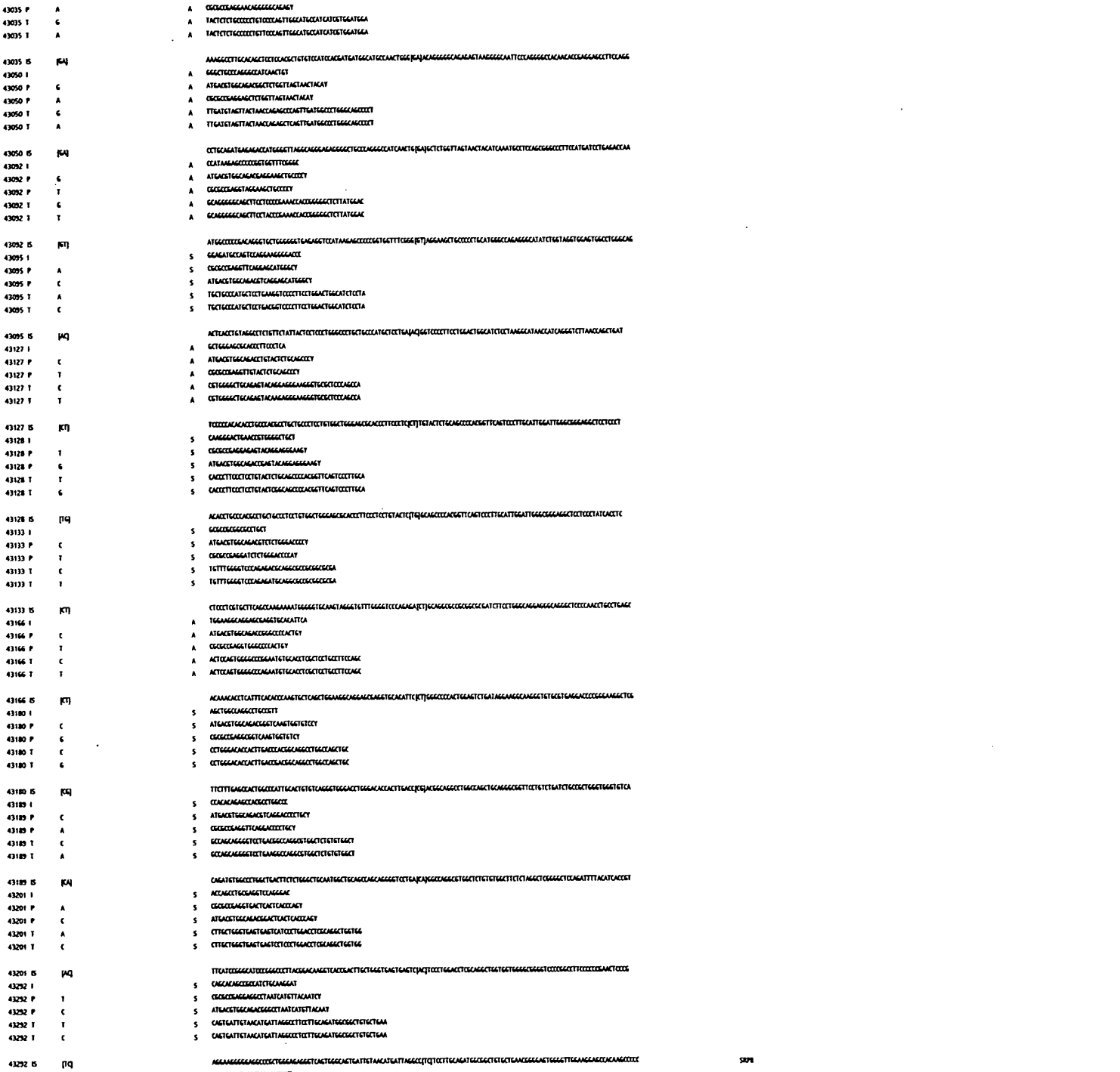




FIGURE 129F

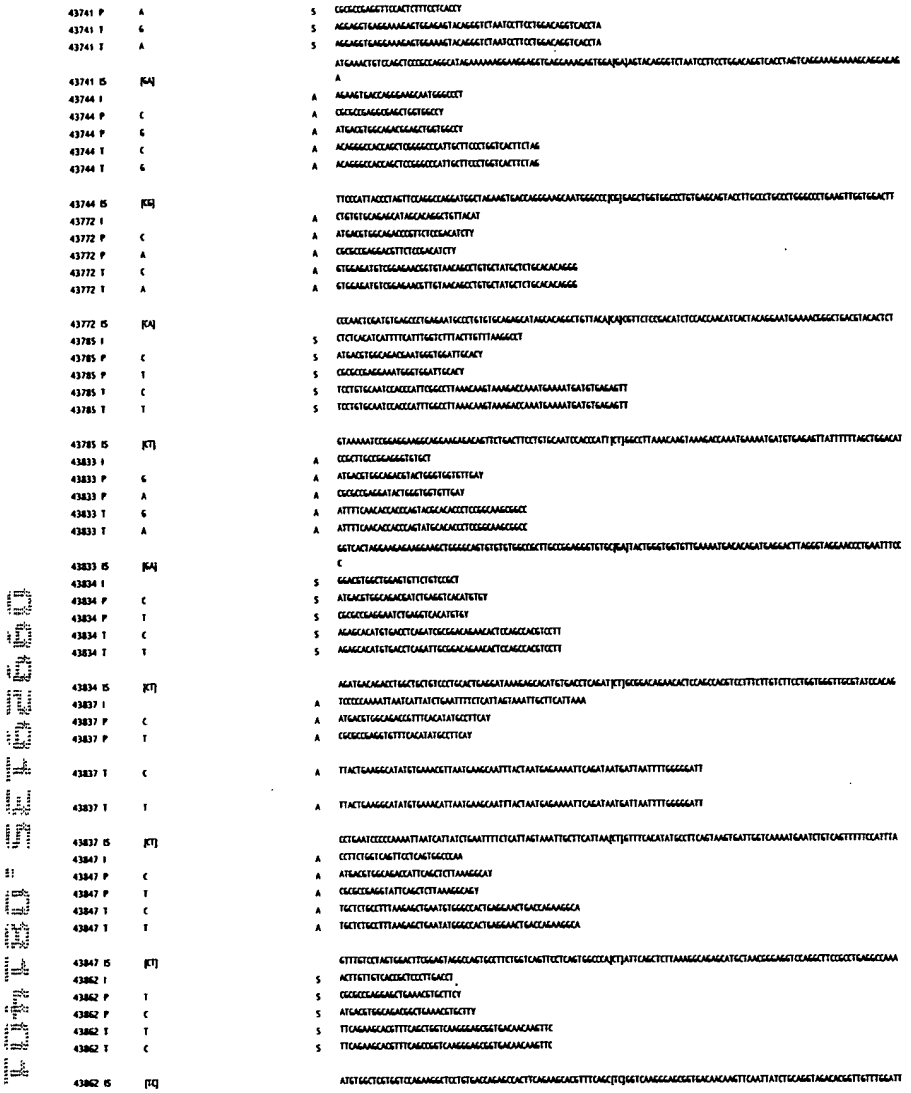


FIGURE 129F

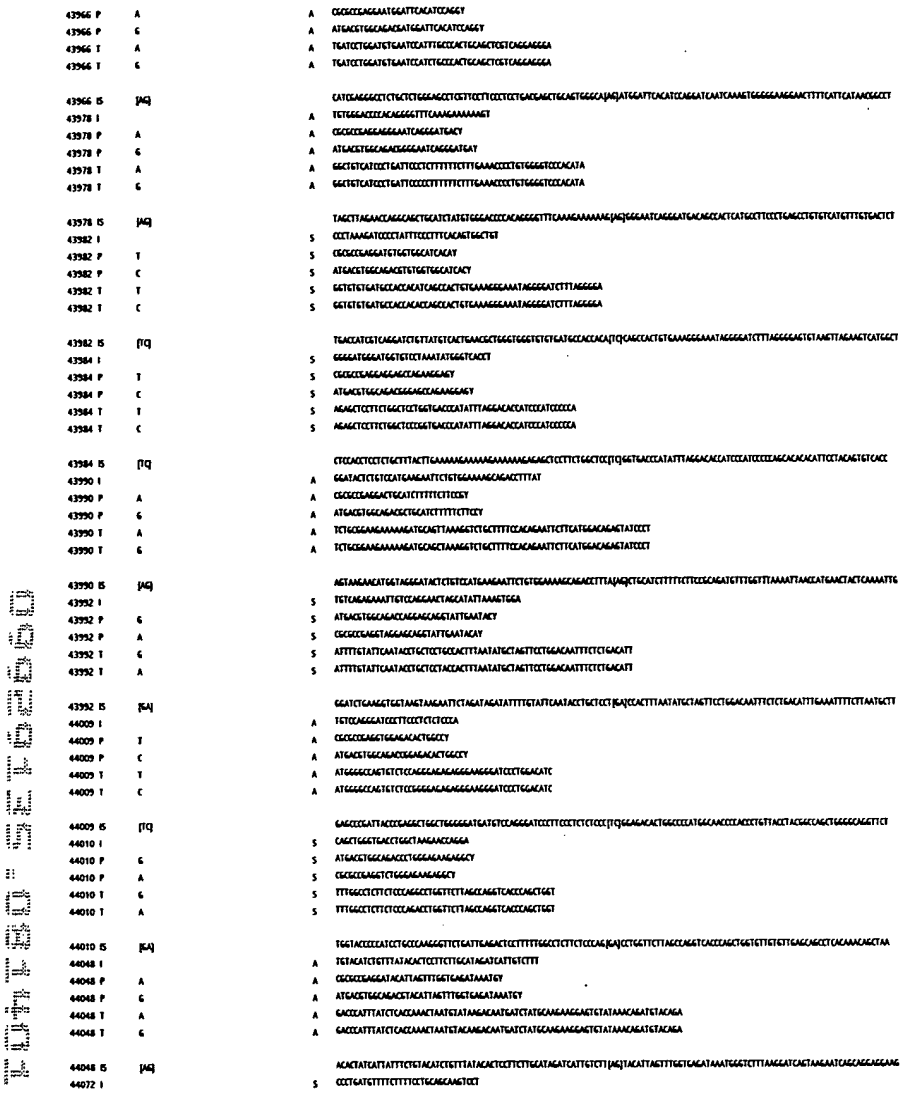
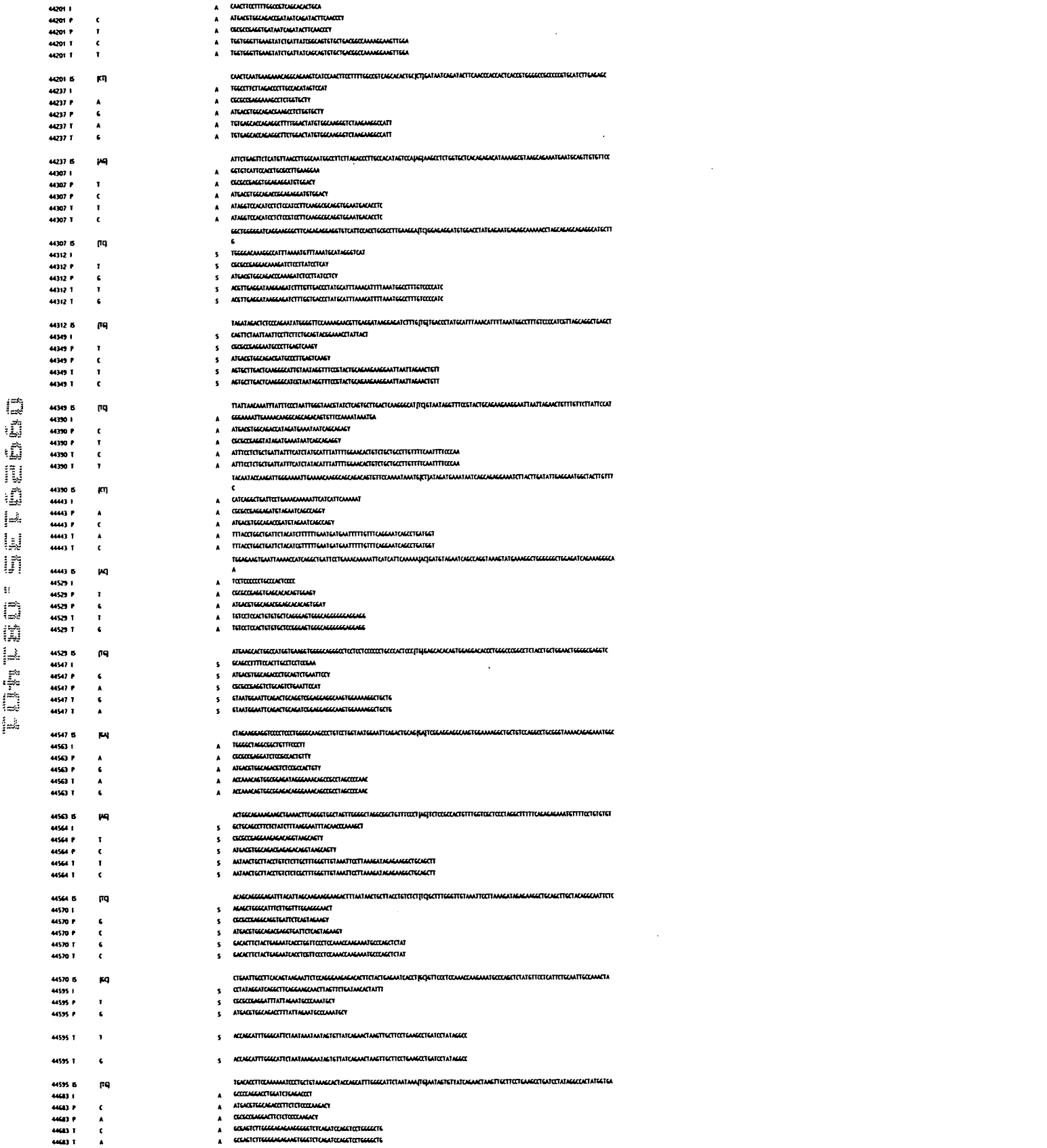
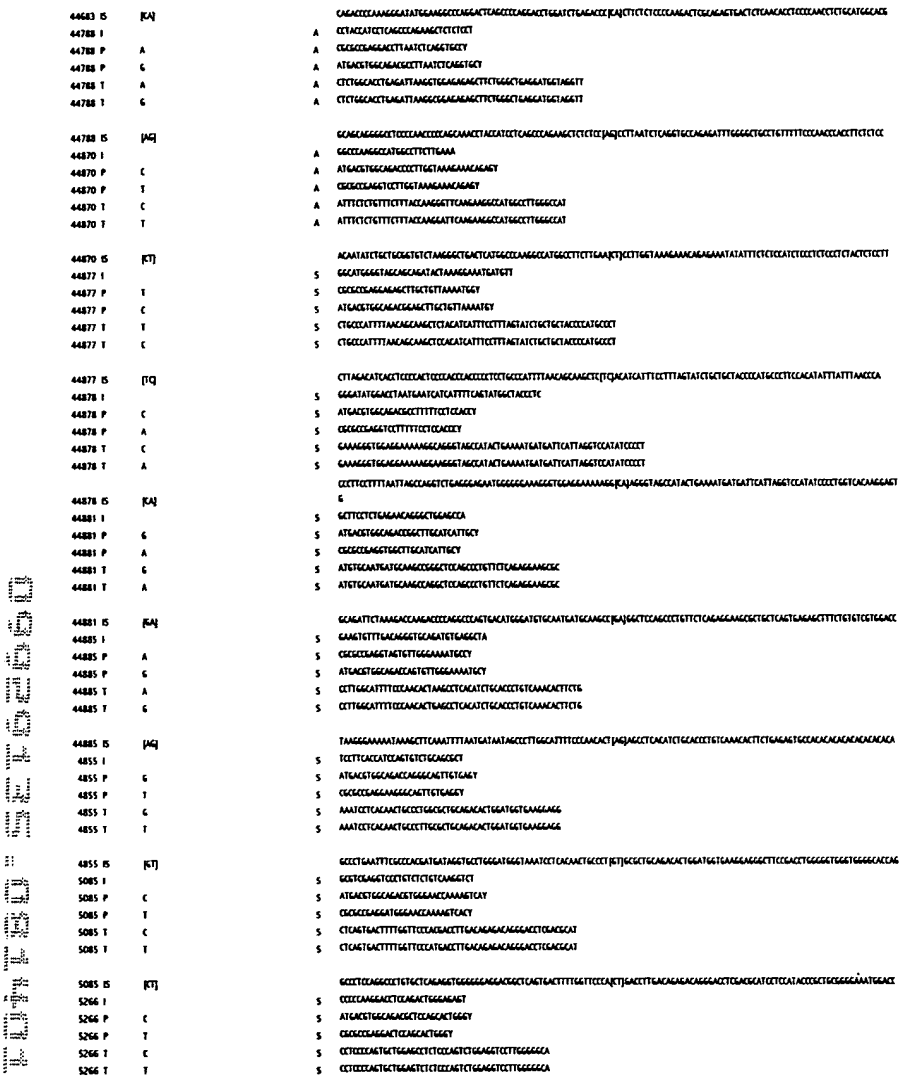
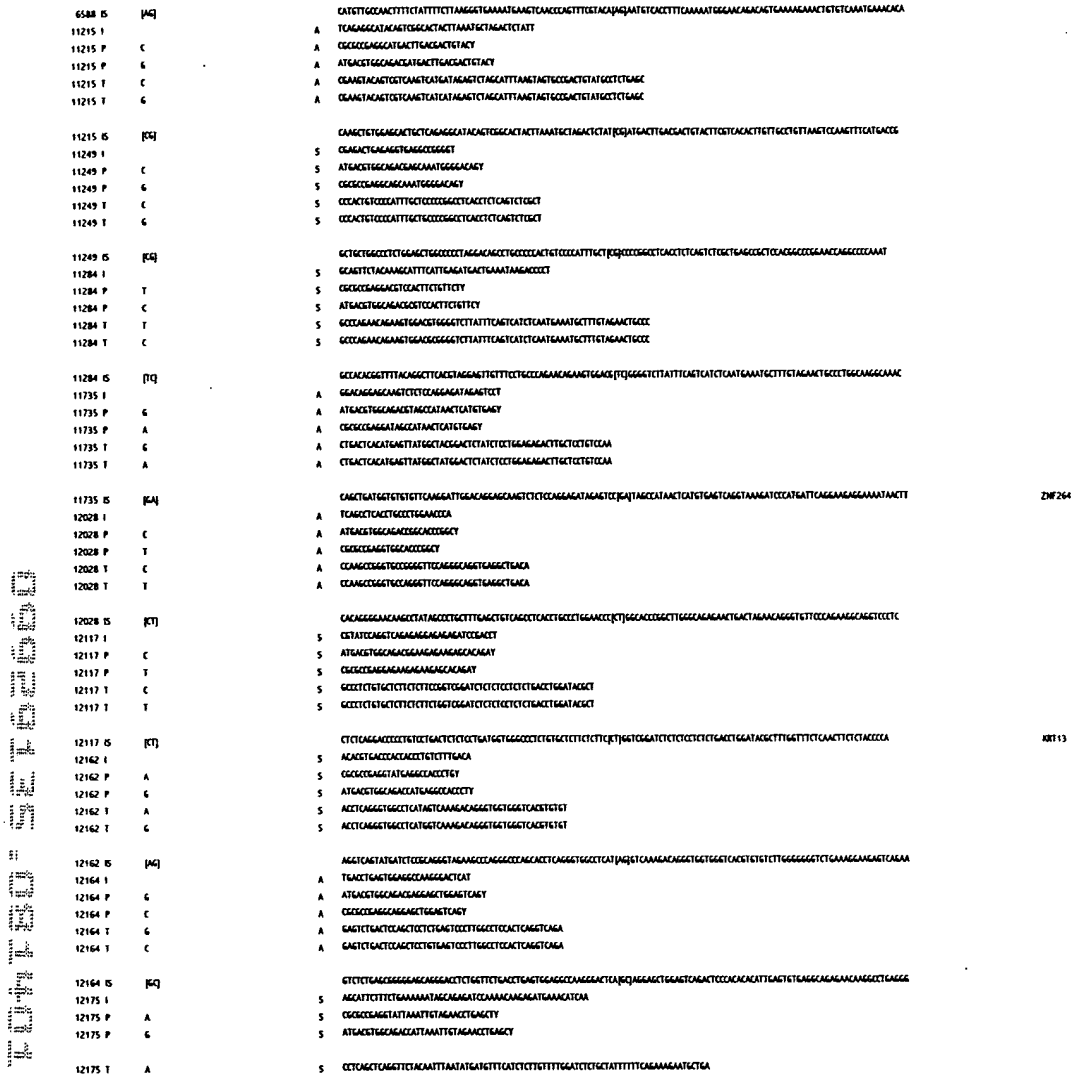
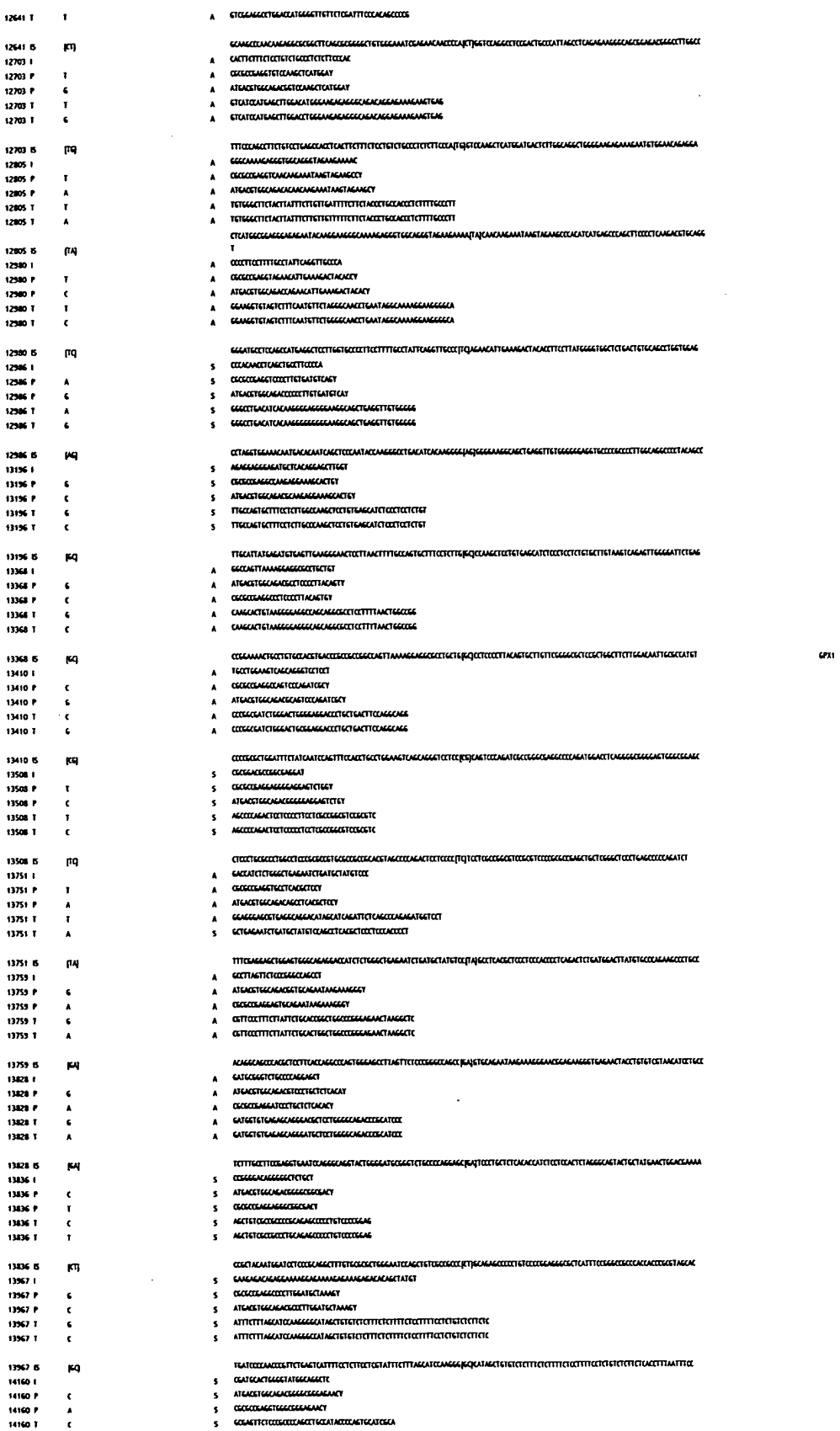


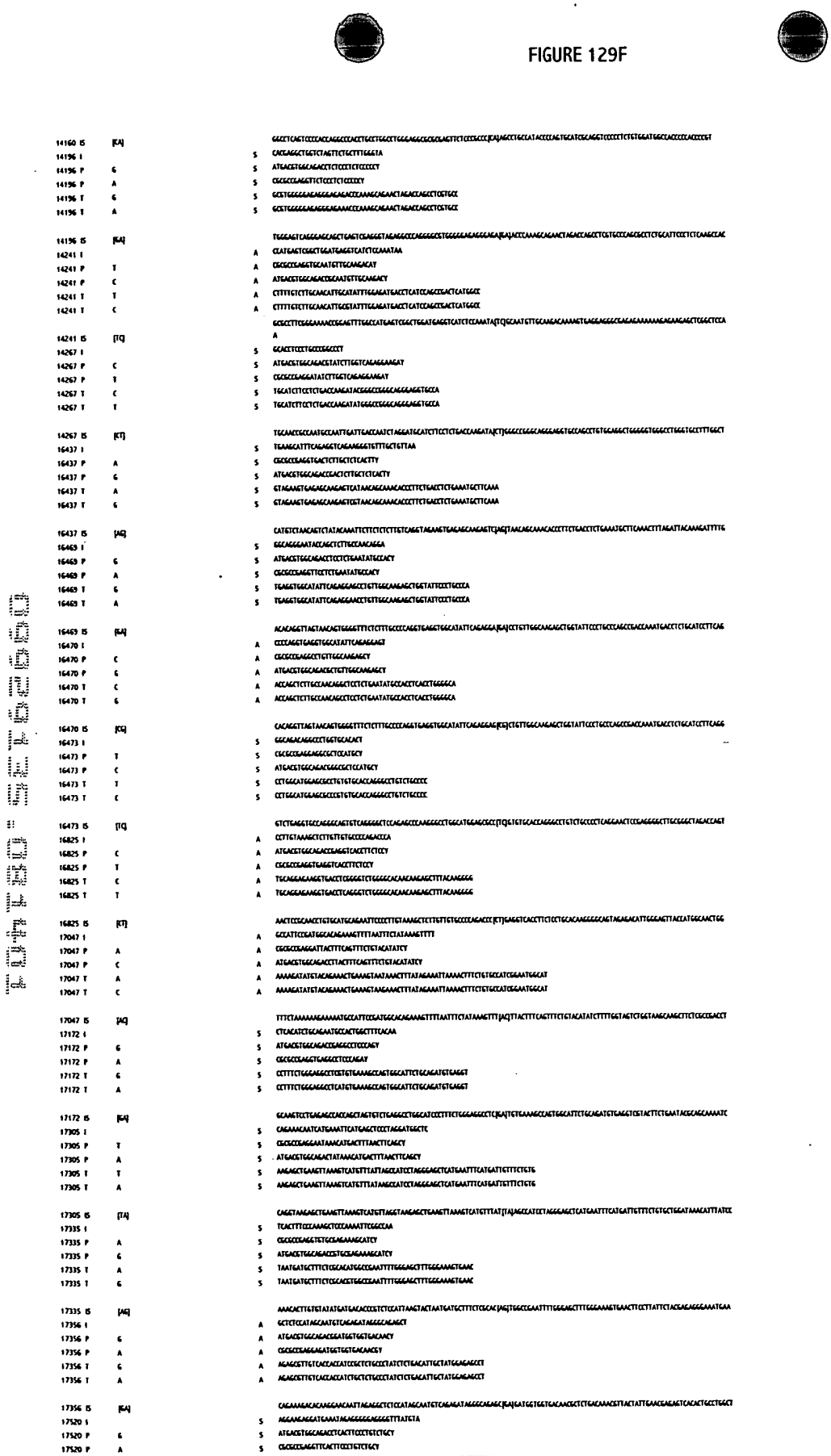
FIGURE 129F











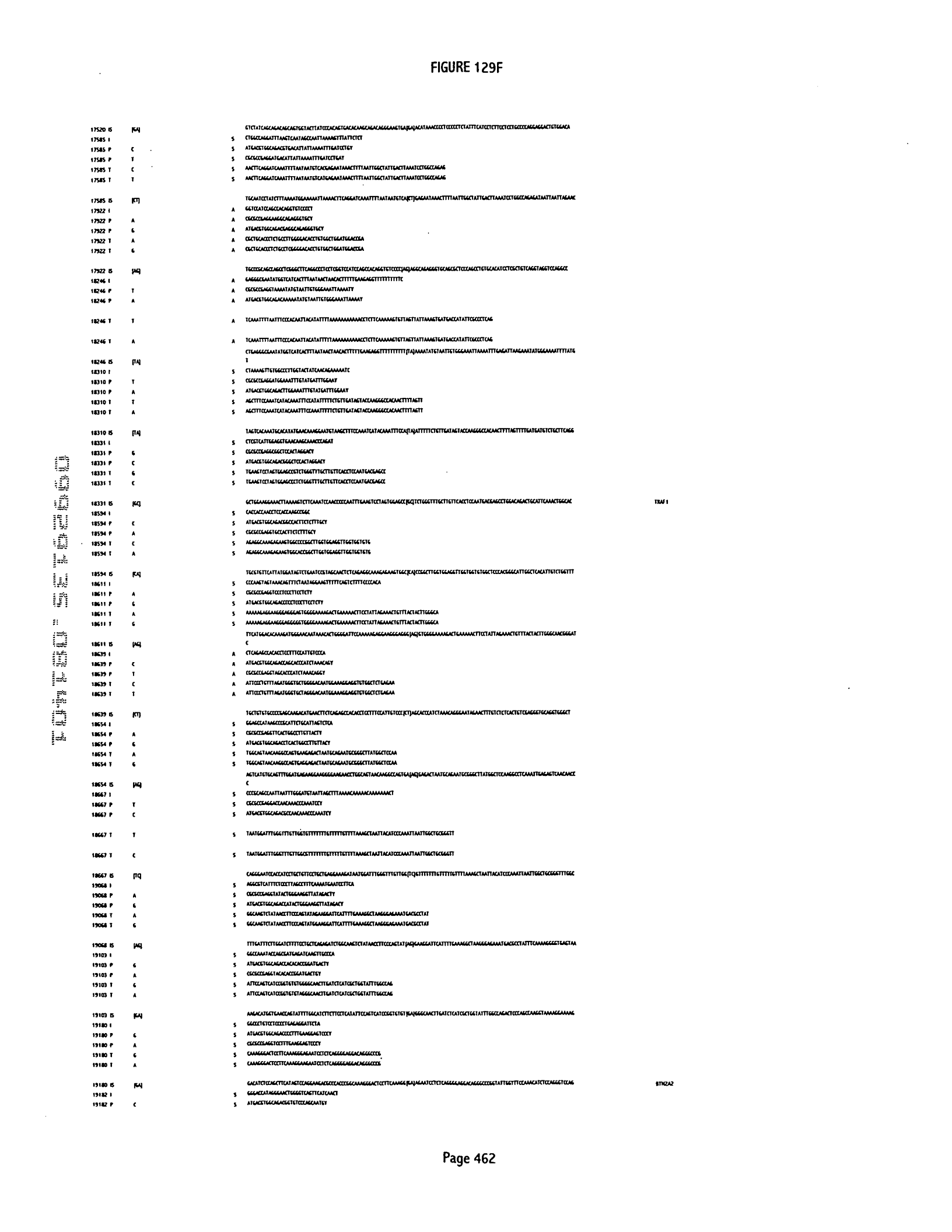


FIGURE 129F

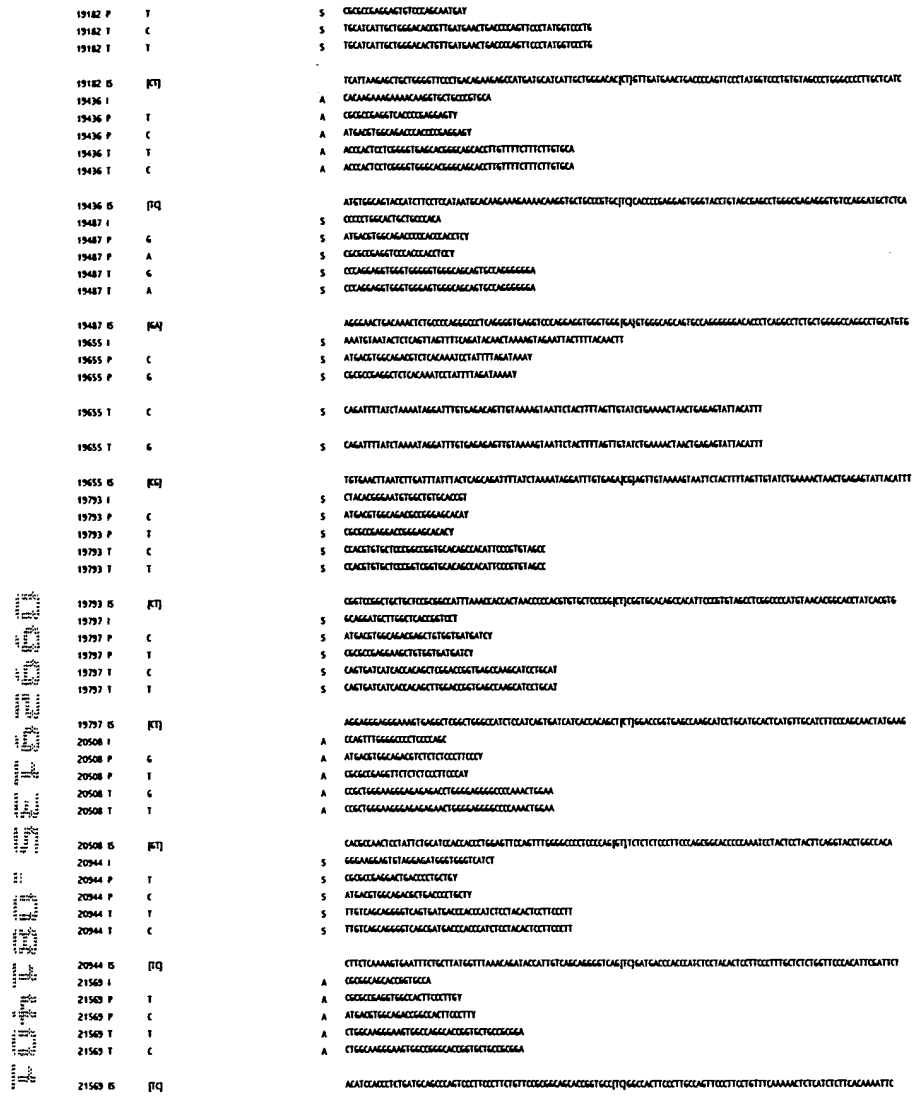
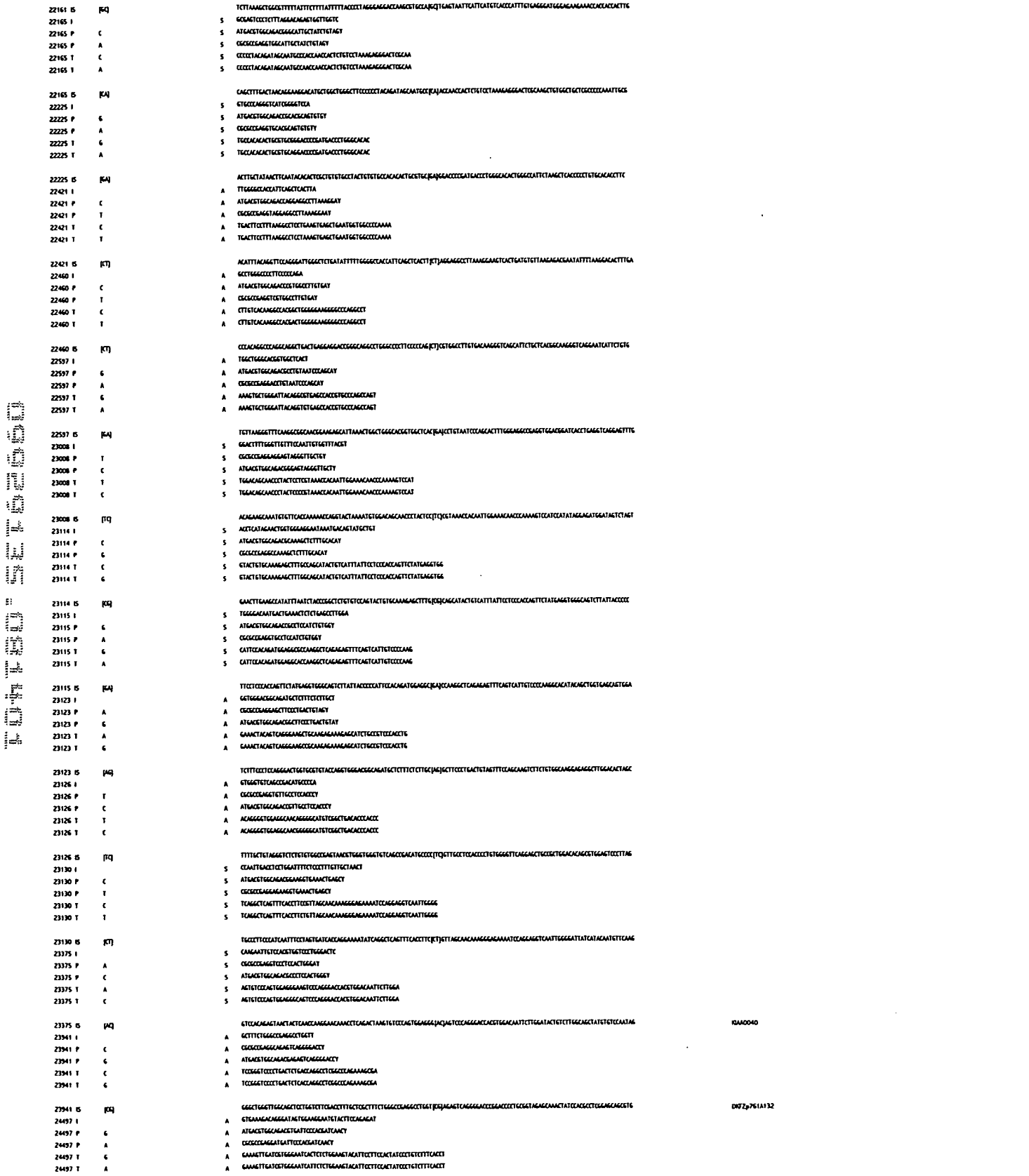


FIGURE 129F



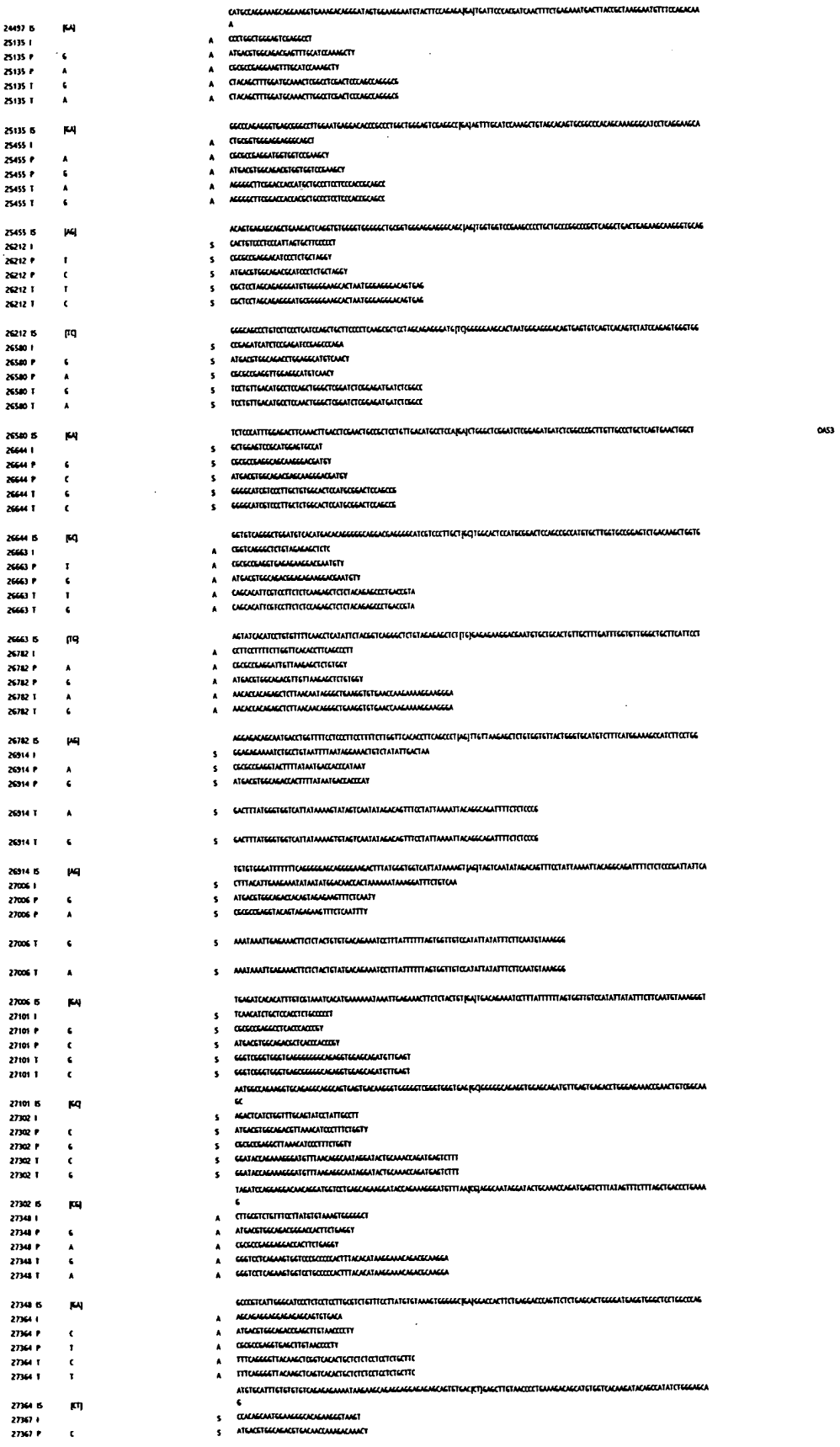
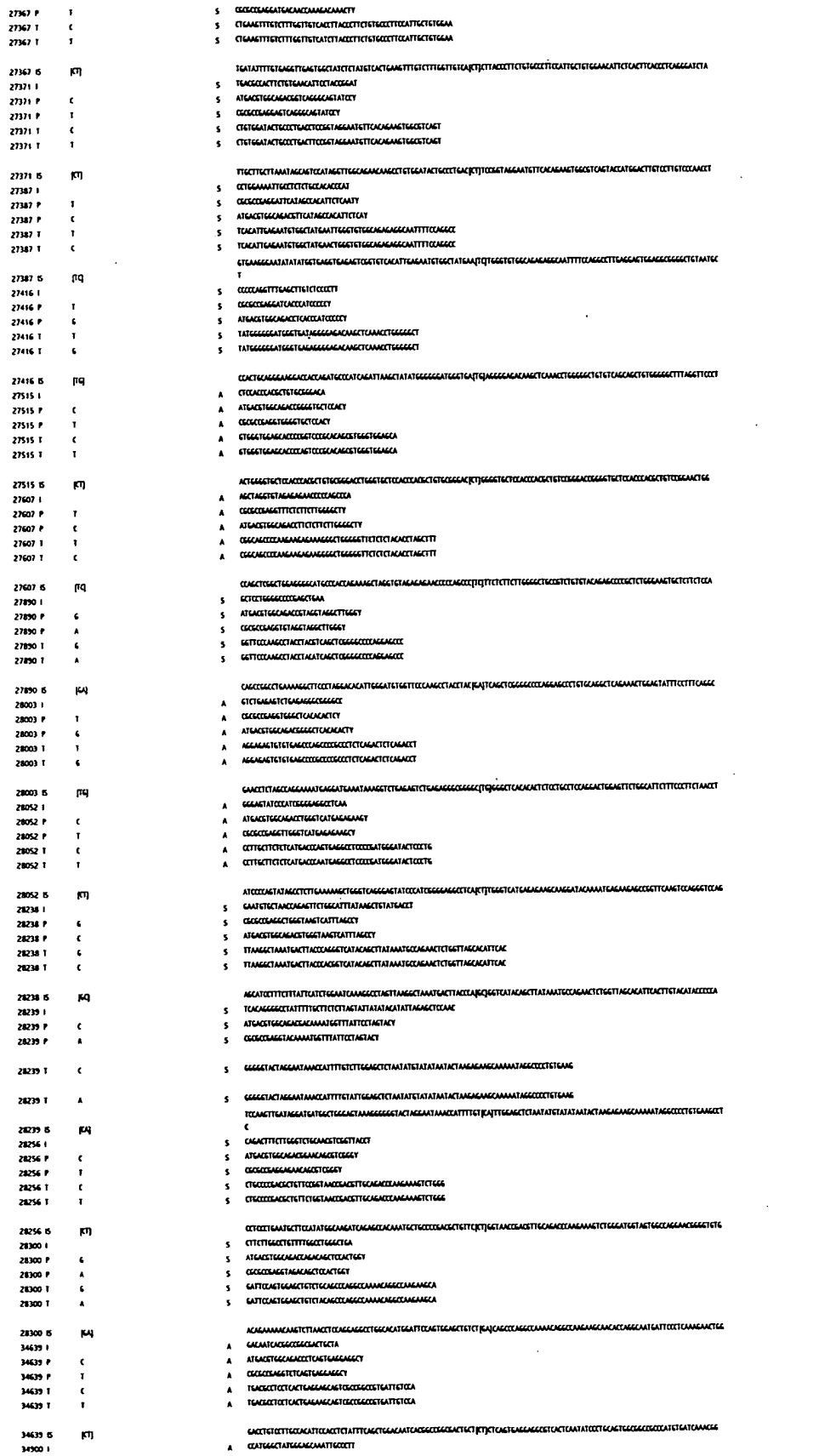
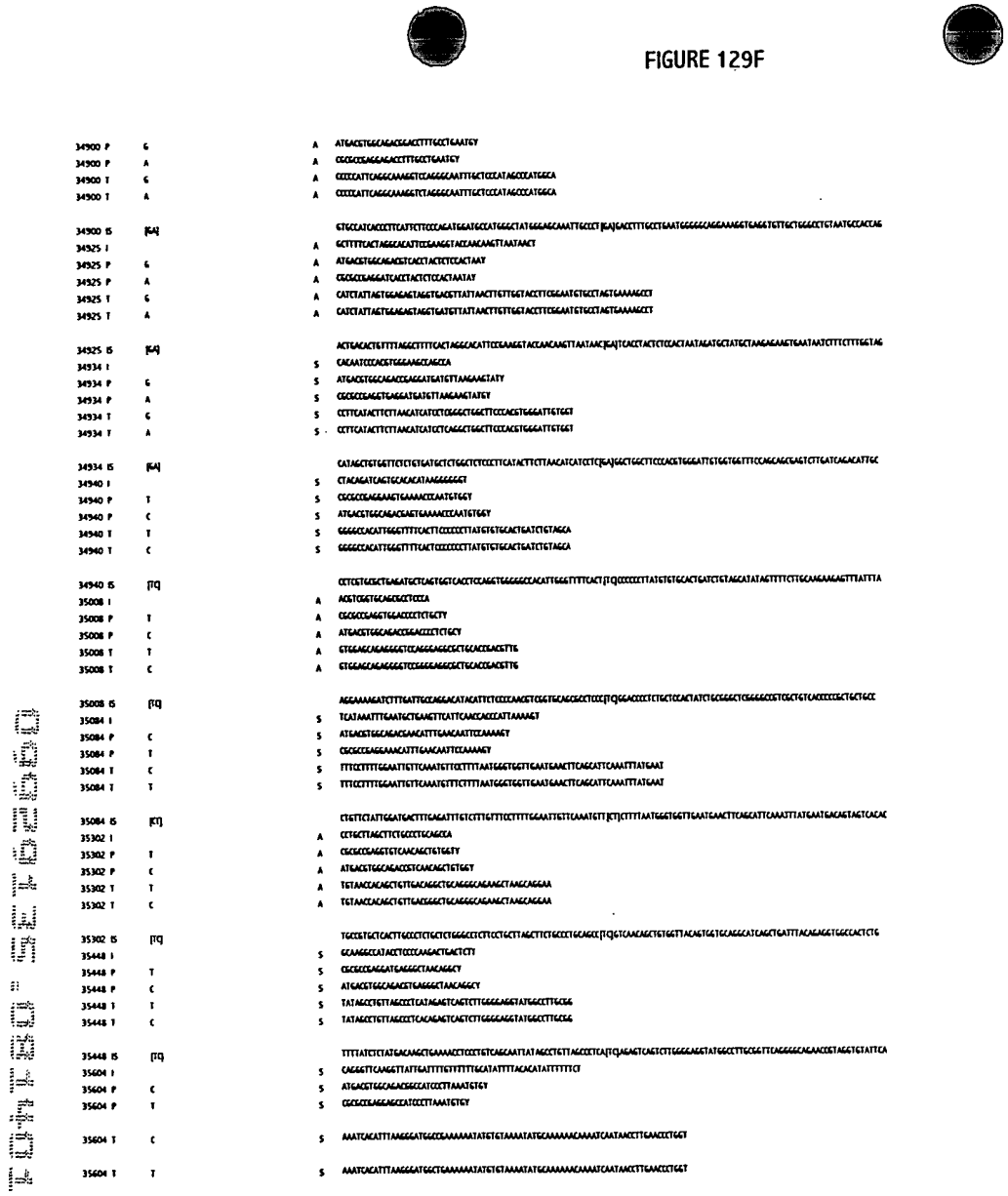


FIGURE 129F





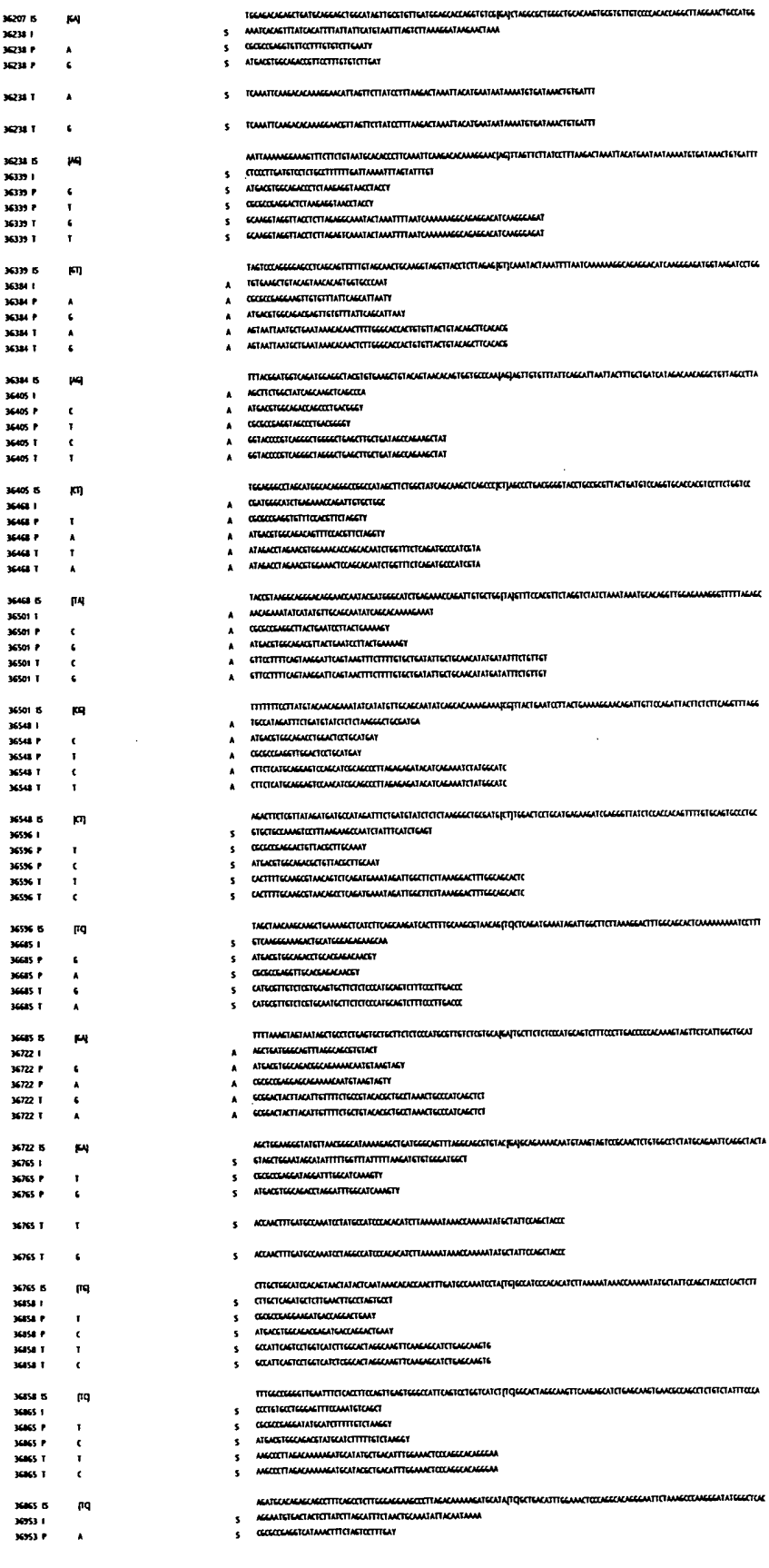


FIGURE 129F

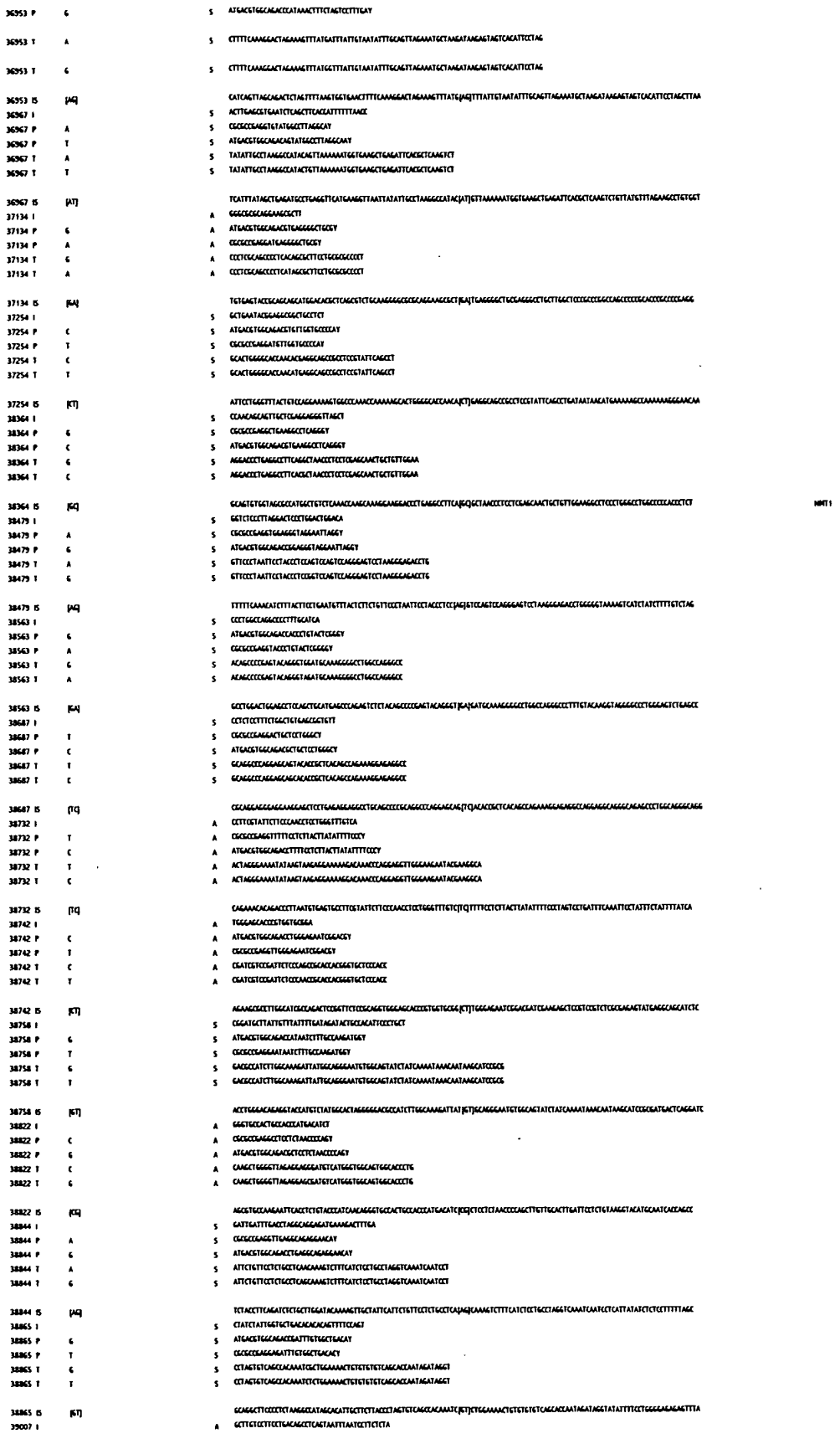


FIGURE 129F

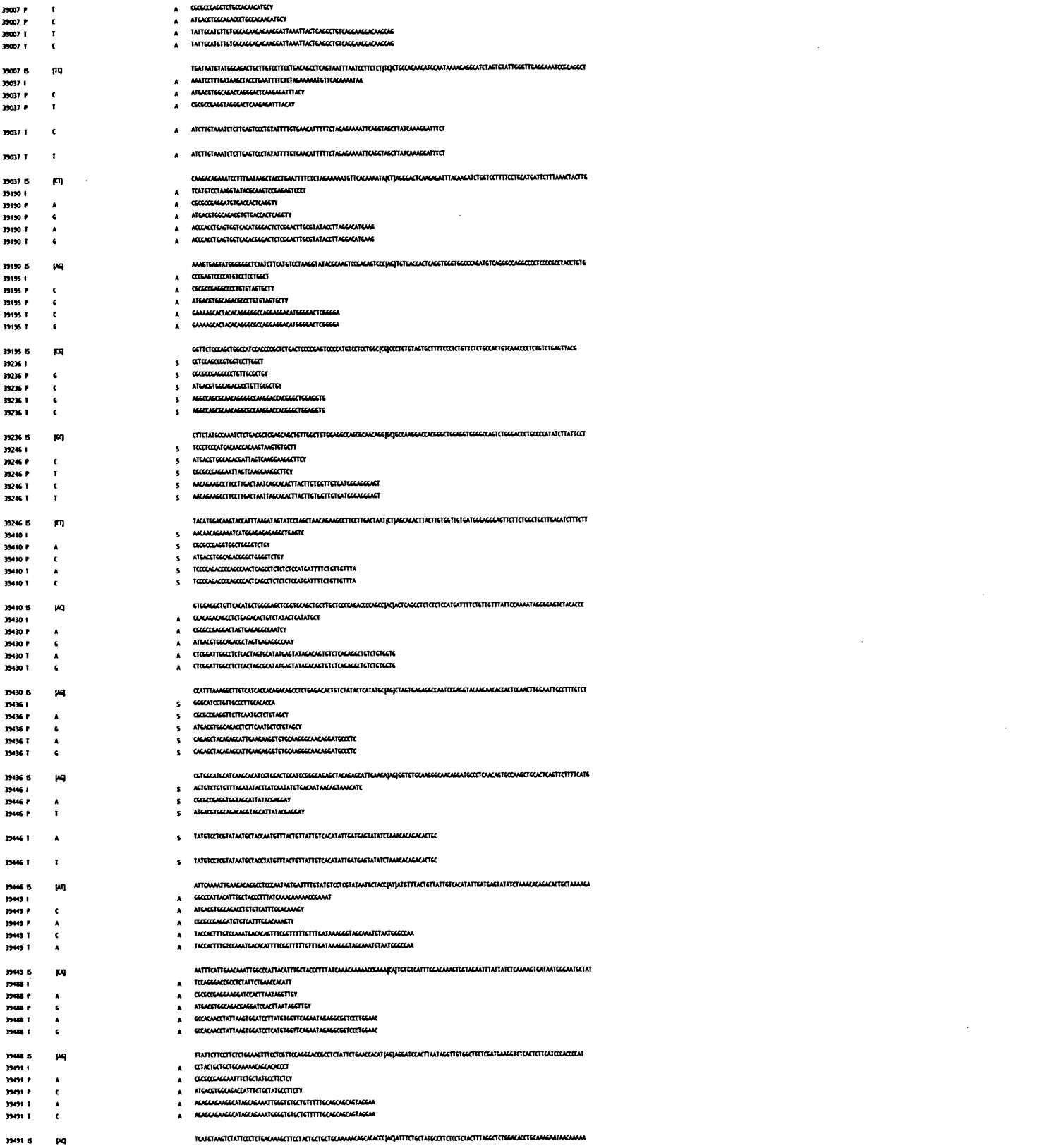
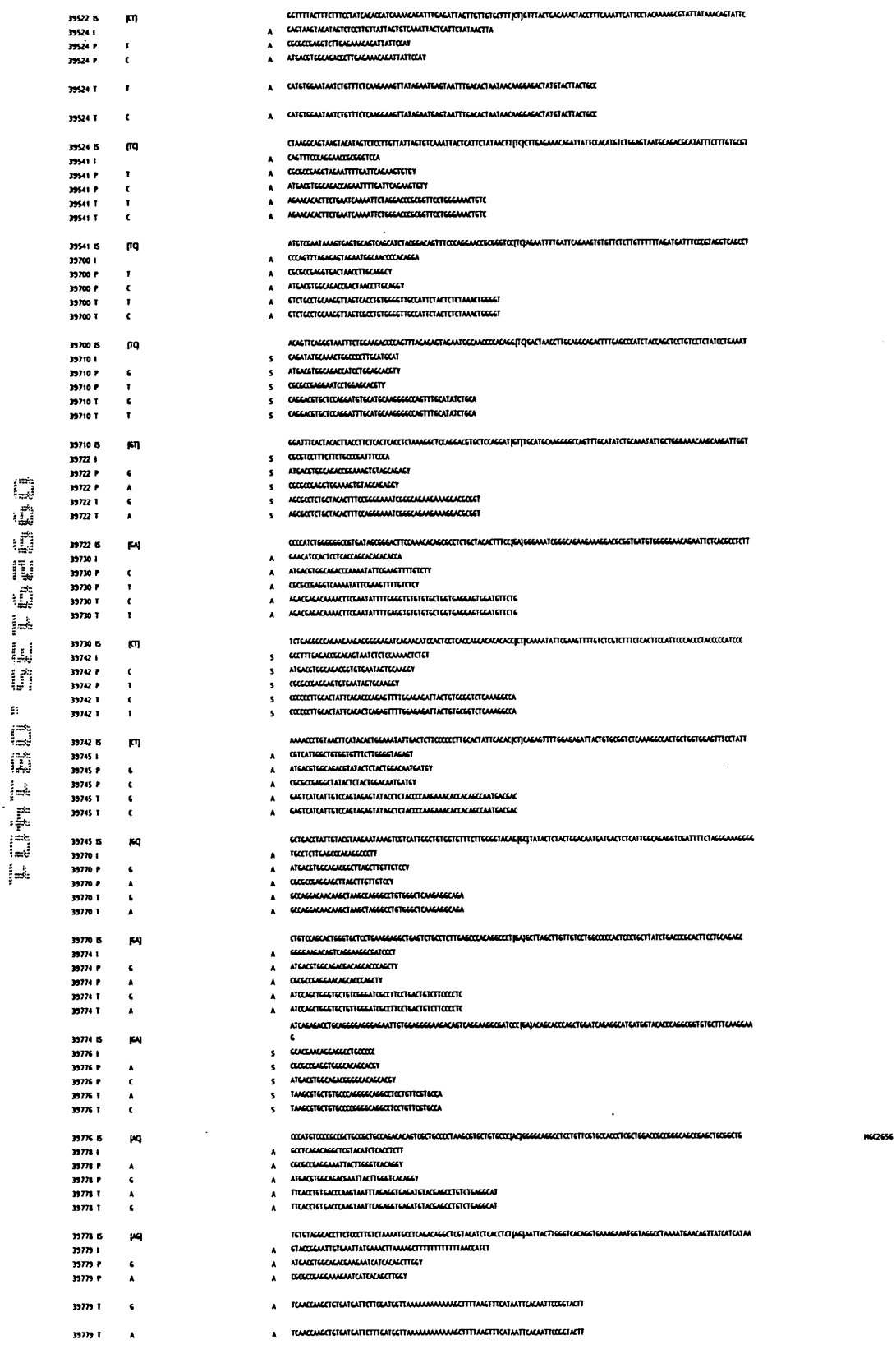
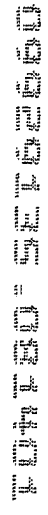


FIGURE 129F





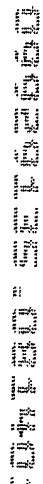
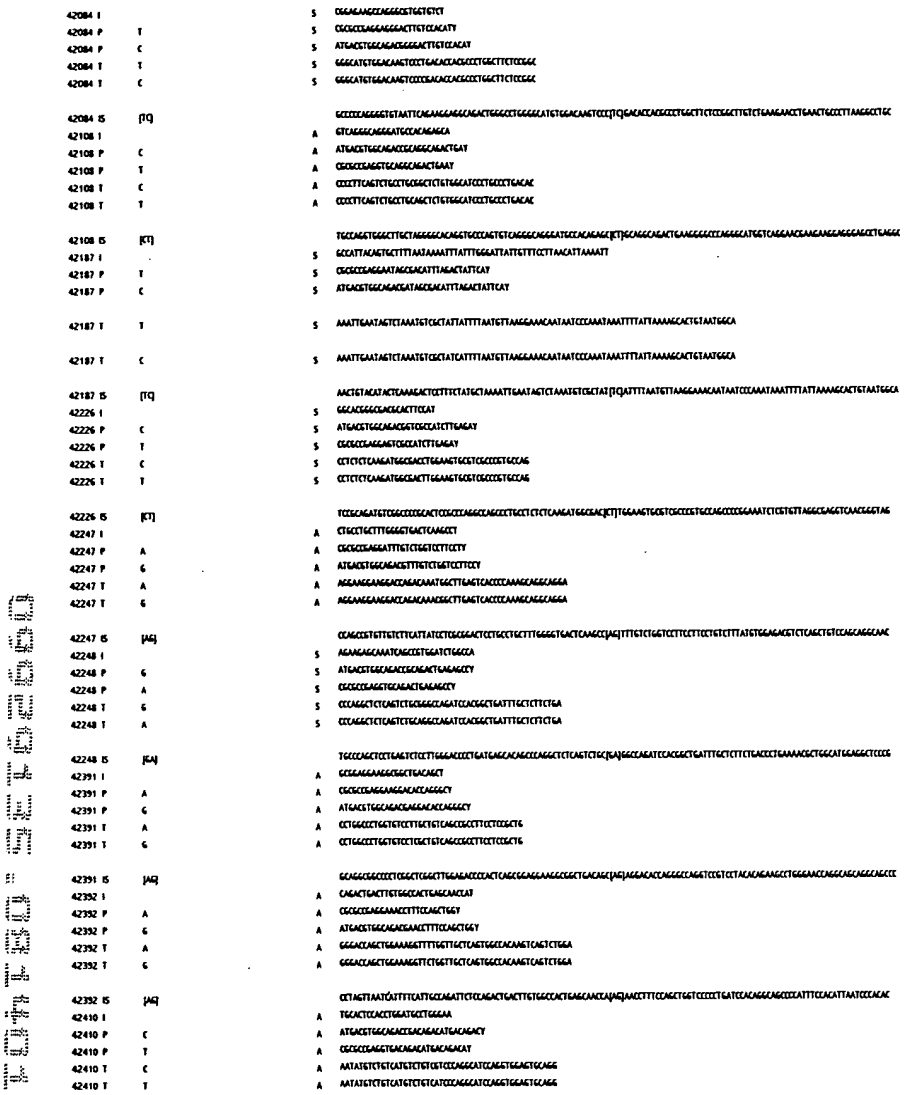


FIGURE 129F





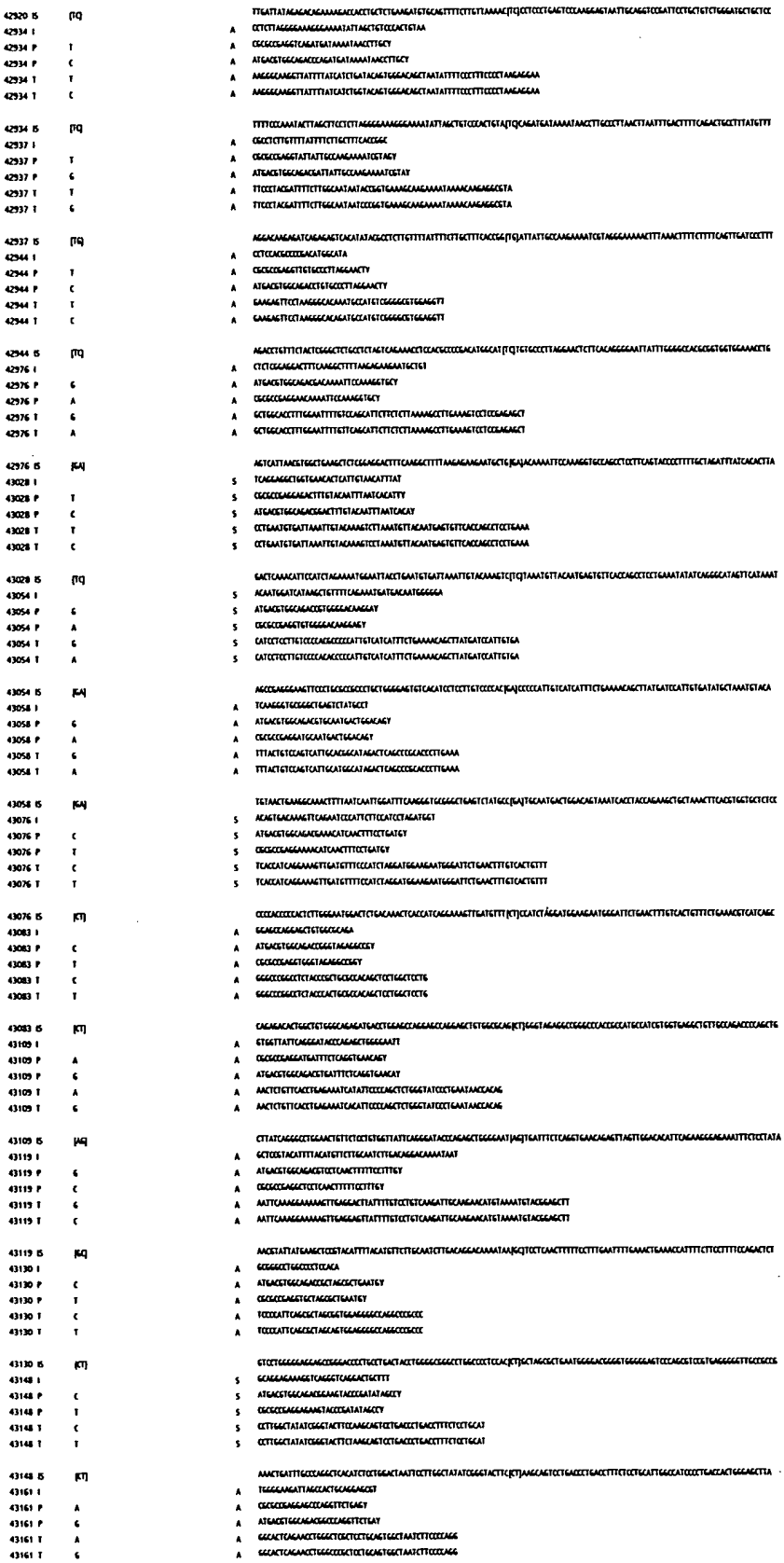


FIGURE 129F

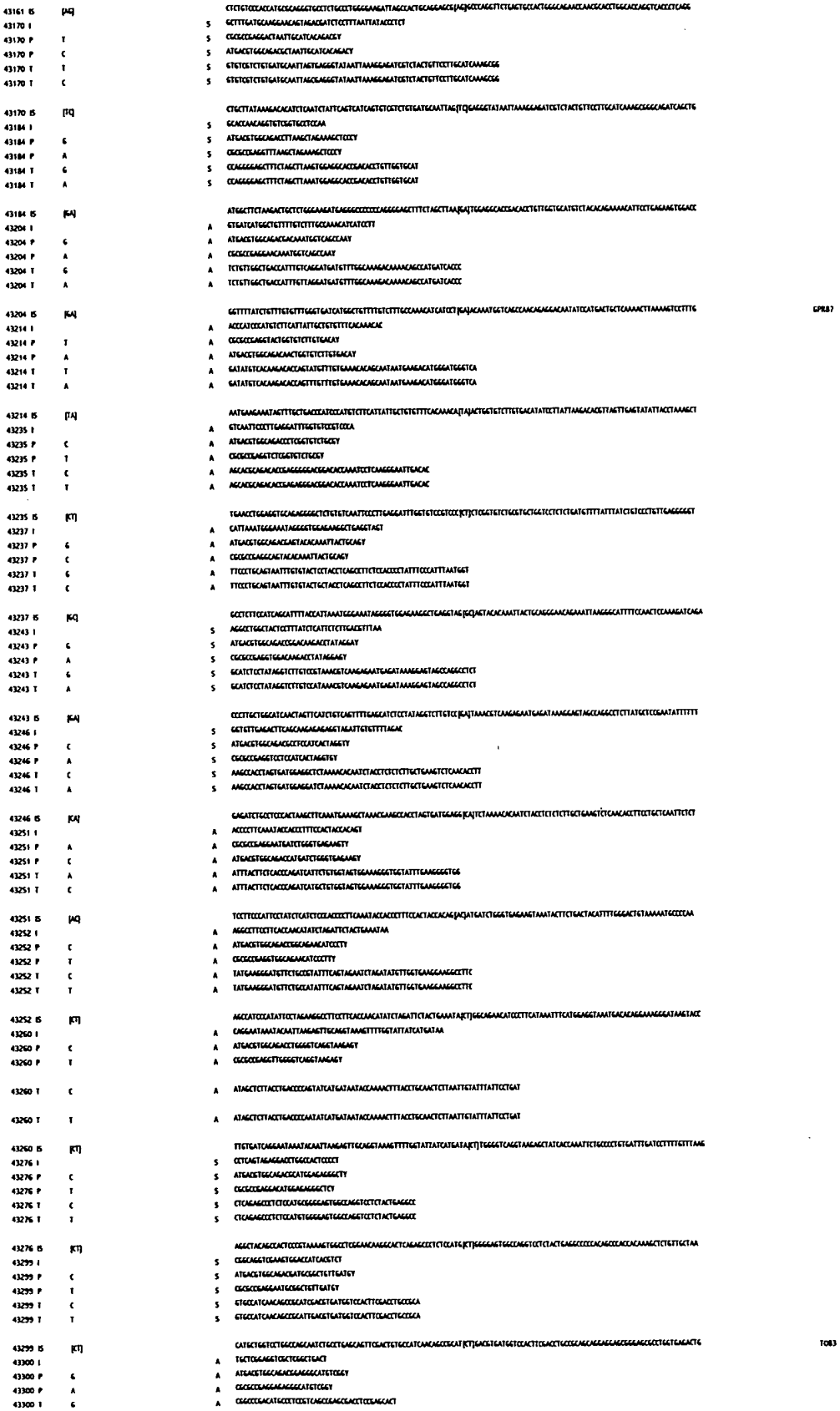


FIGURE 129F

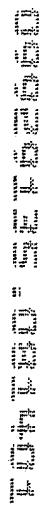
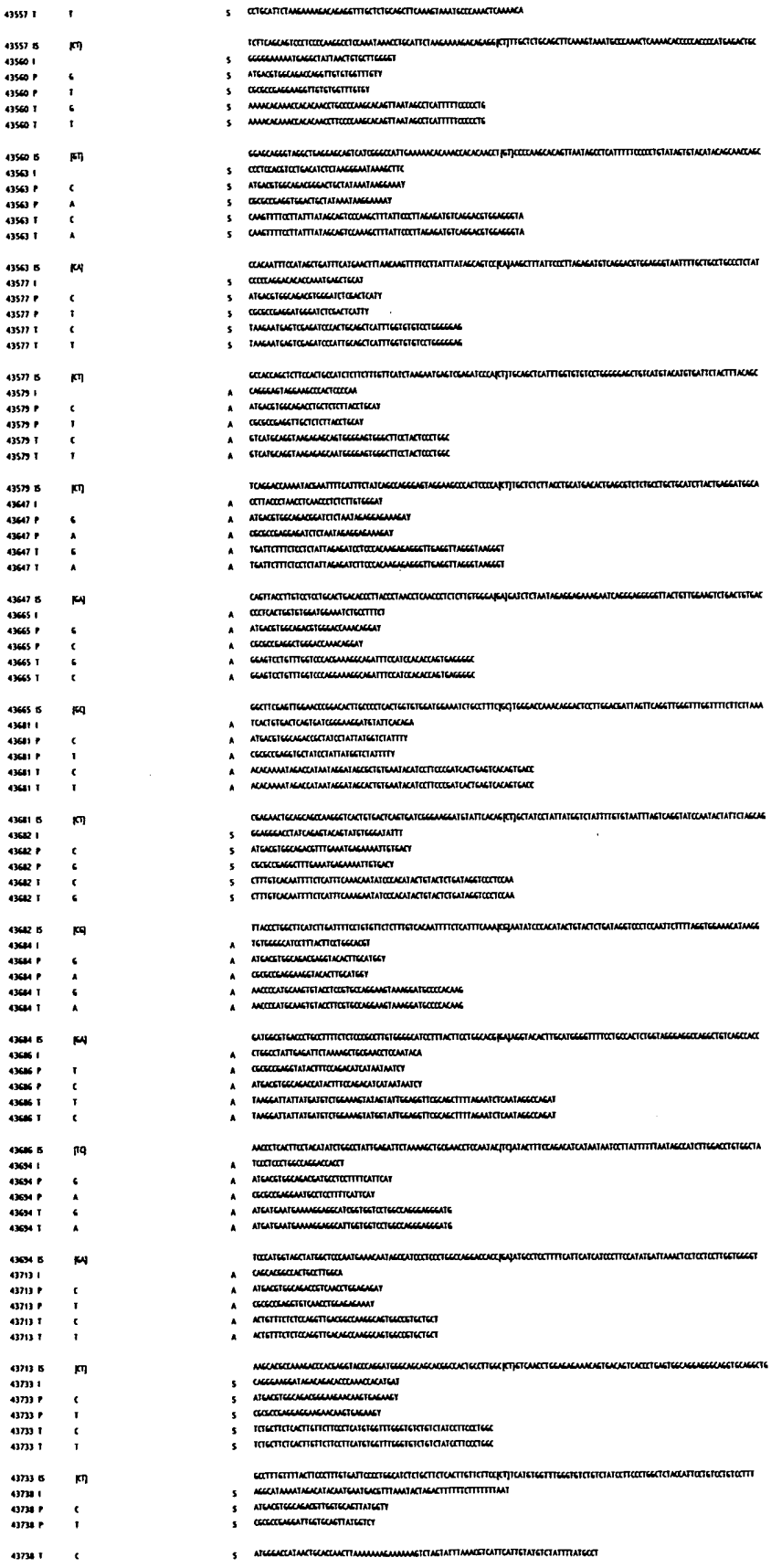




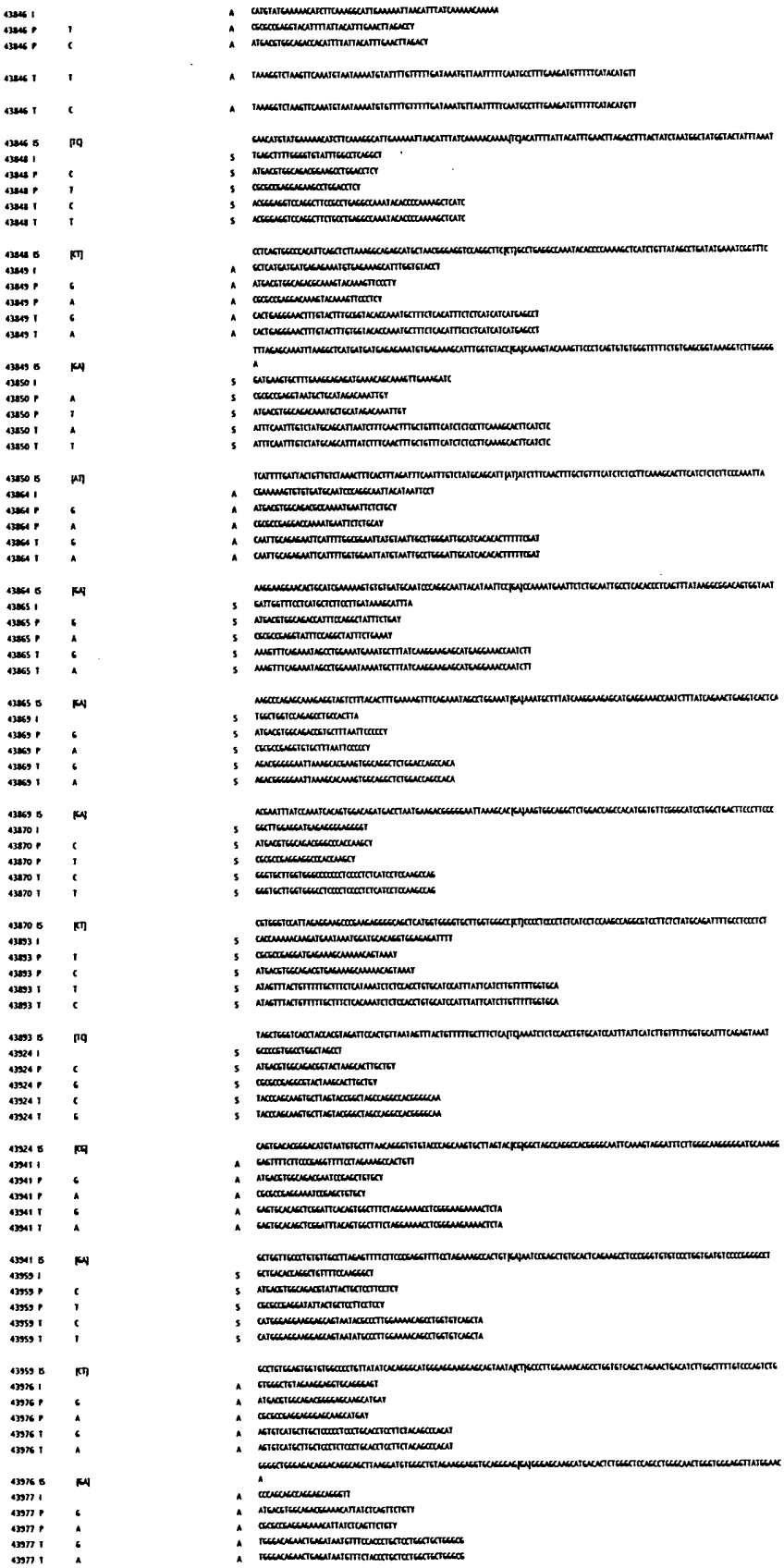
FIGURE 129F





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FIGURE 129F



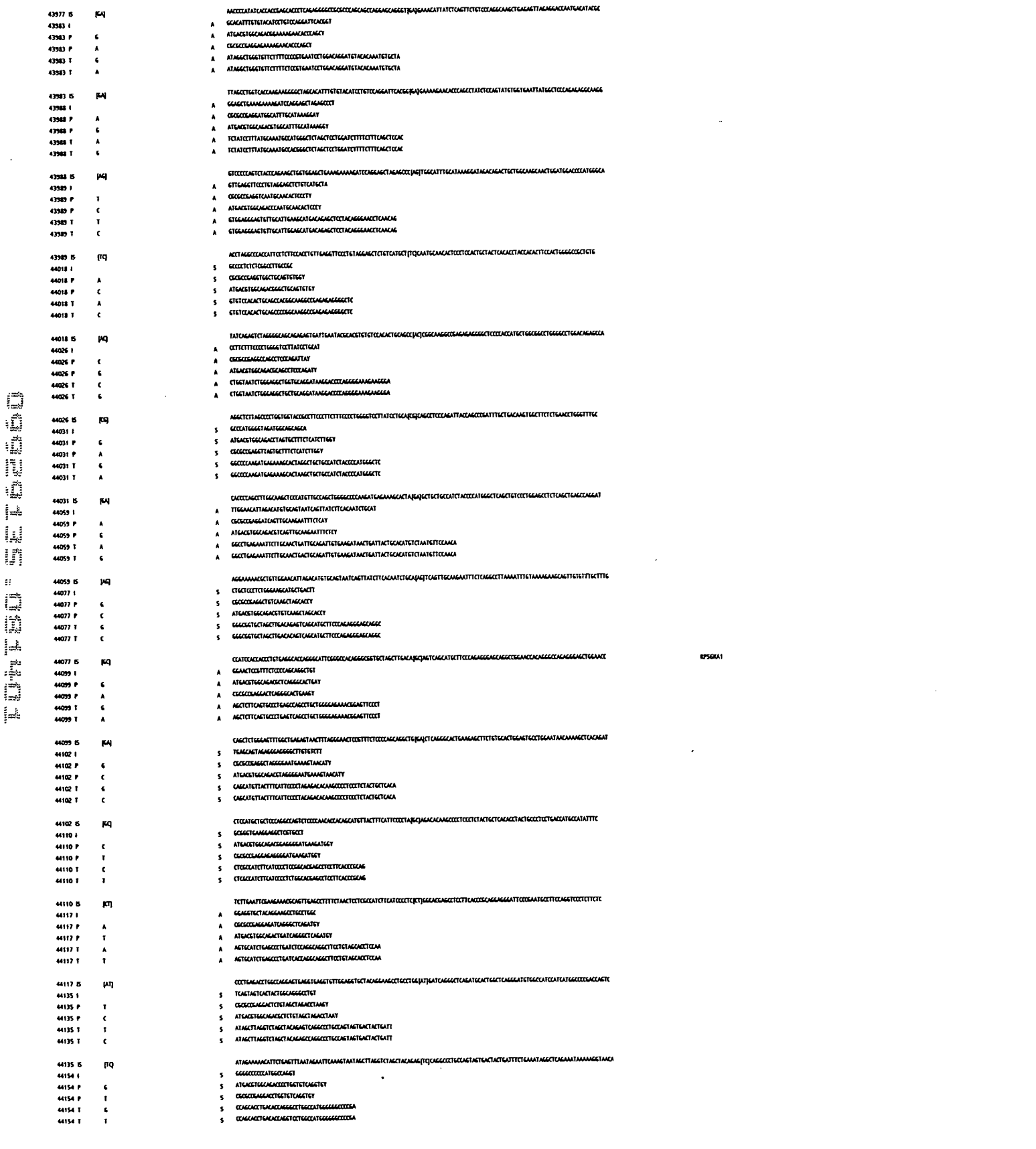
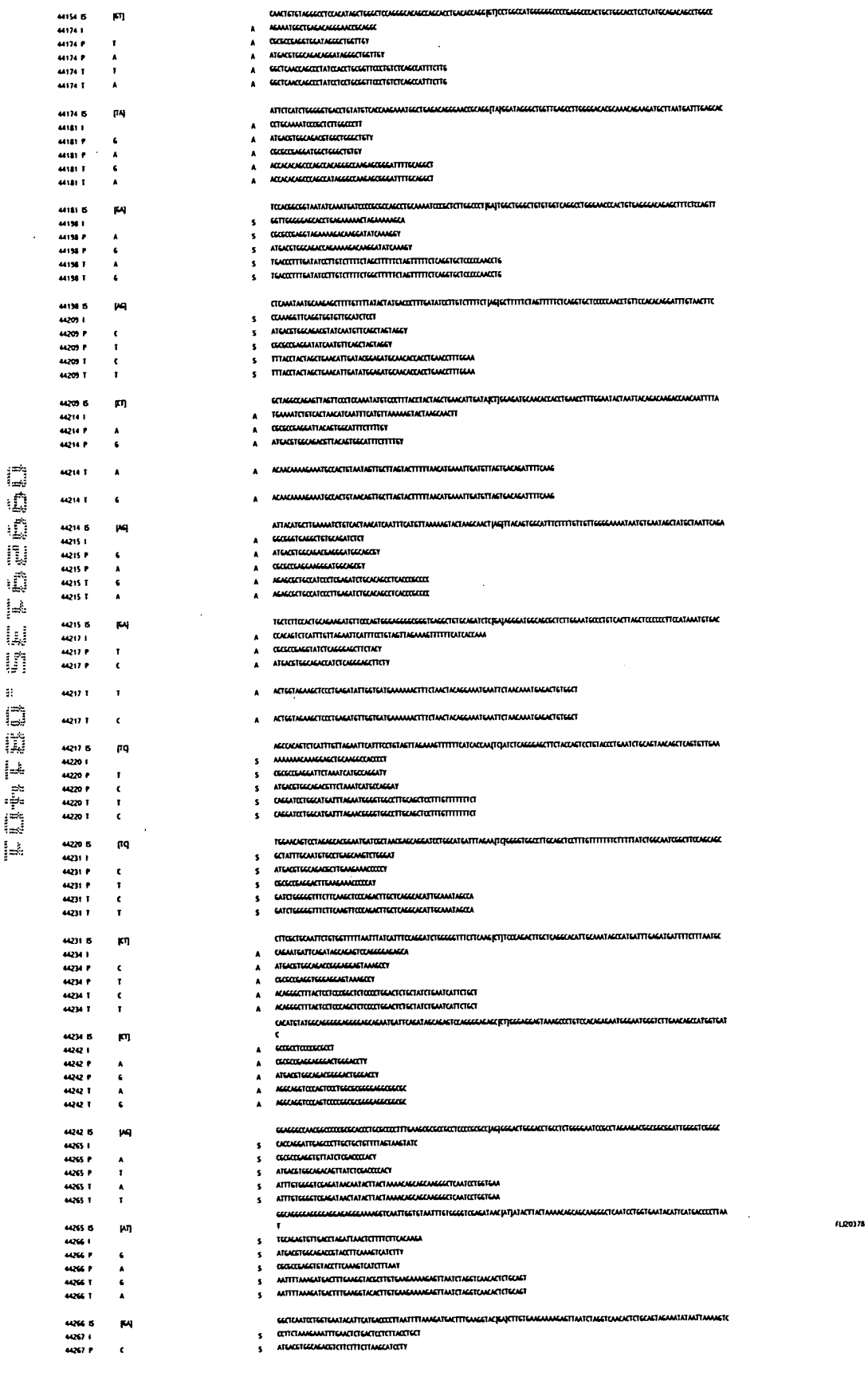


FIGURE 129F



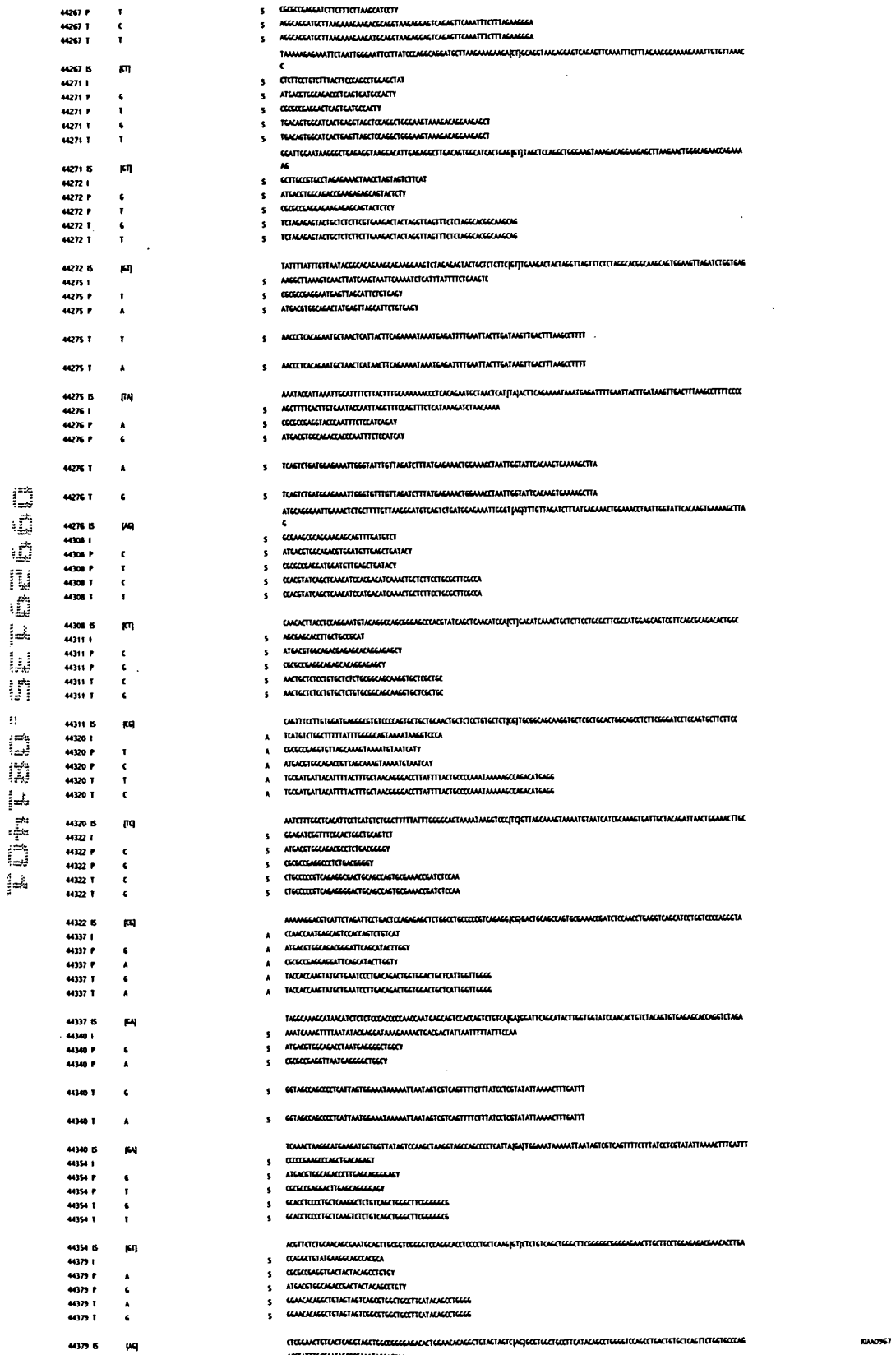
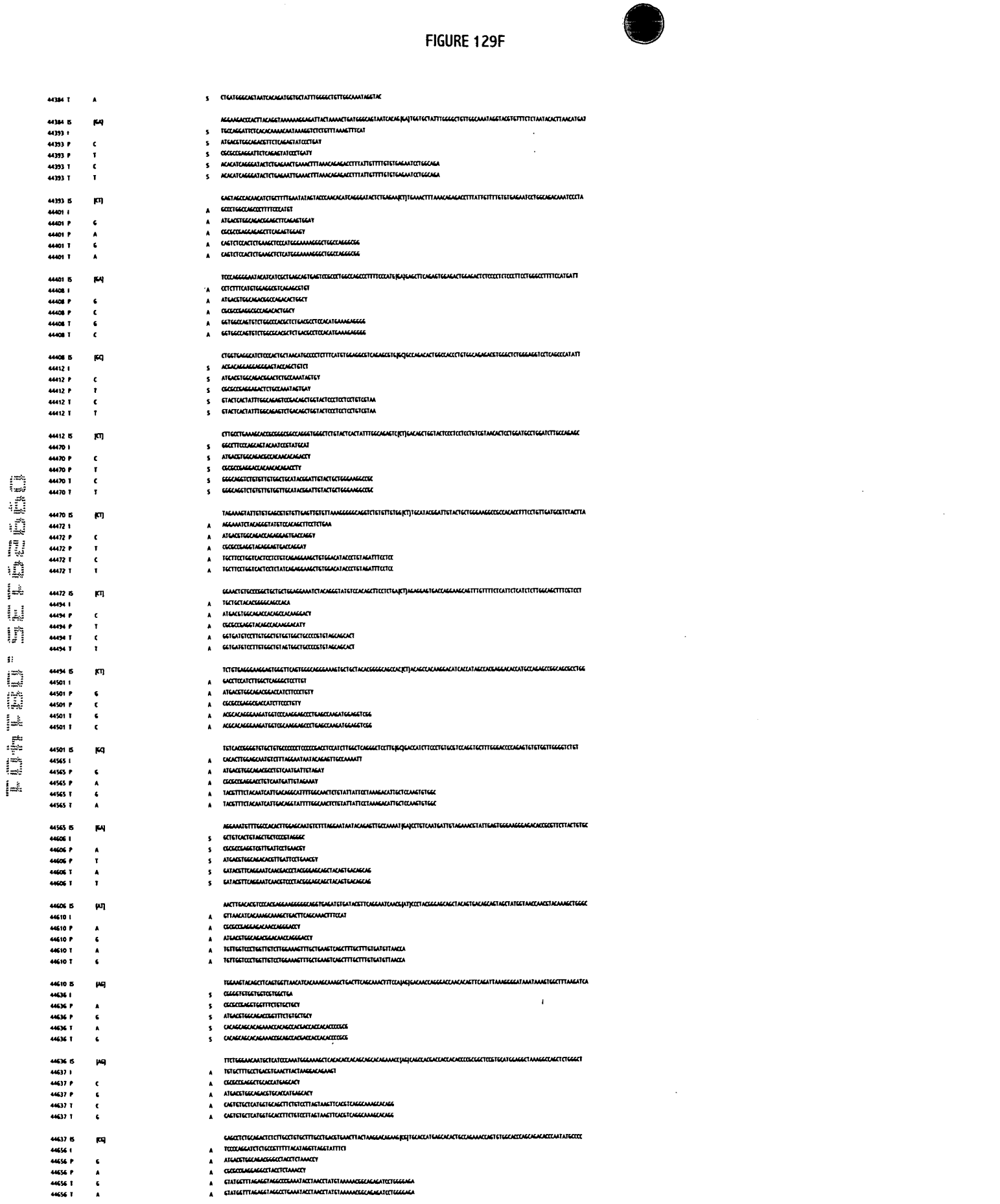
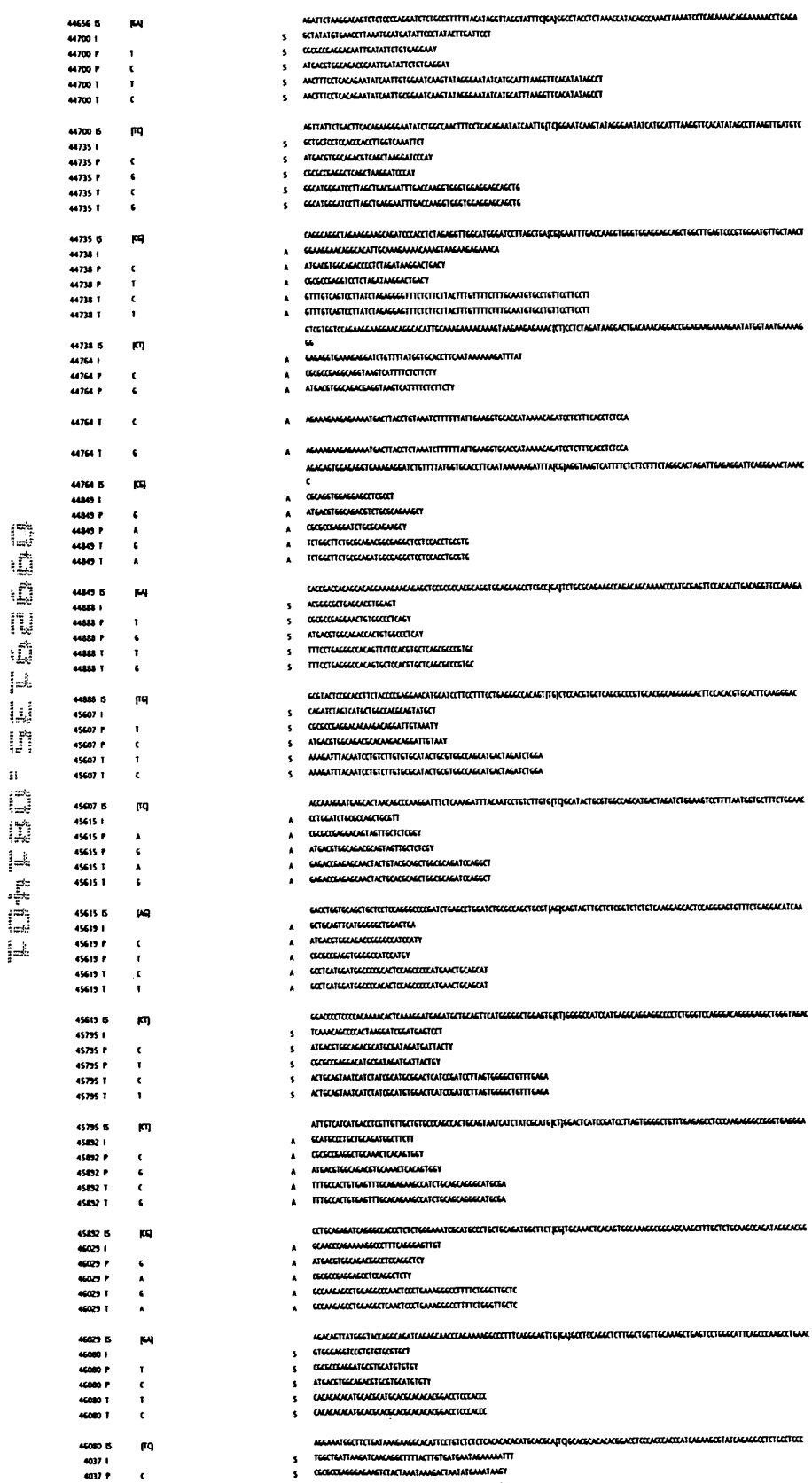

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FIGURE 129F





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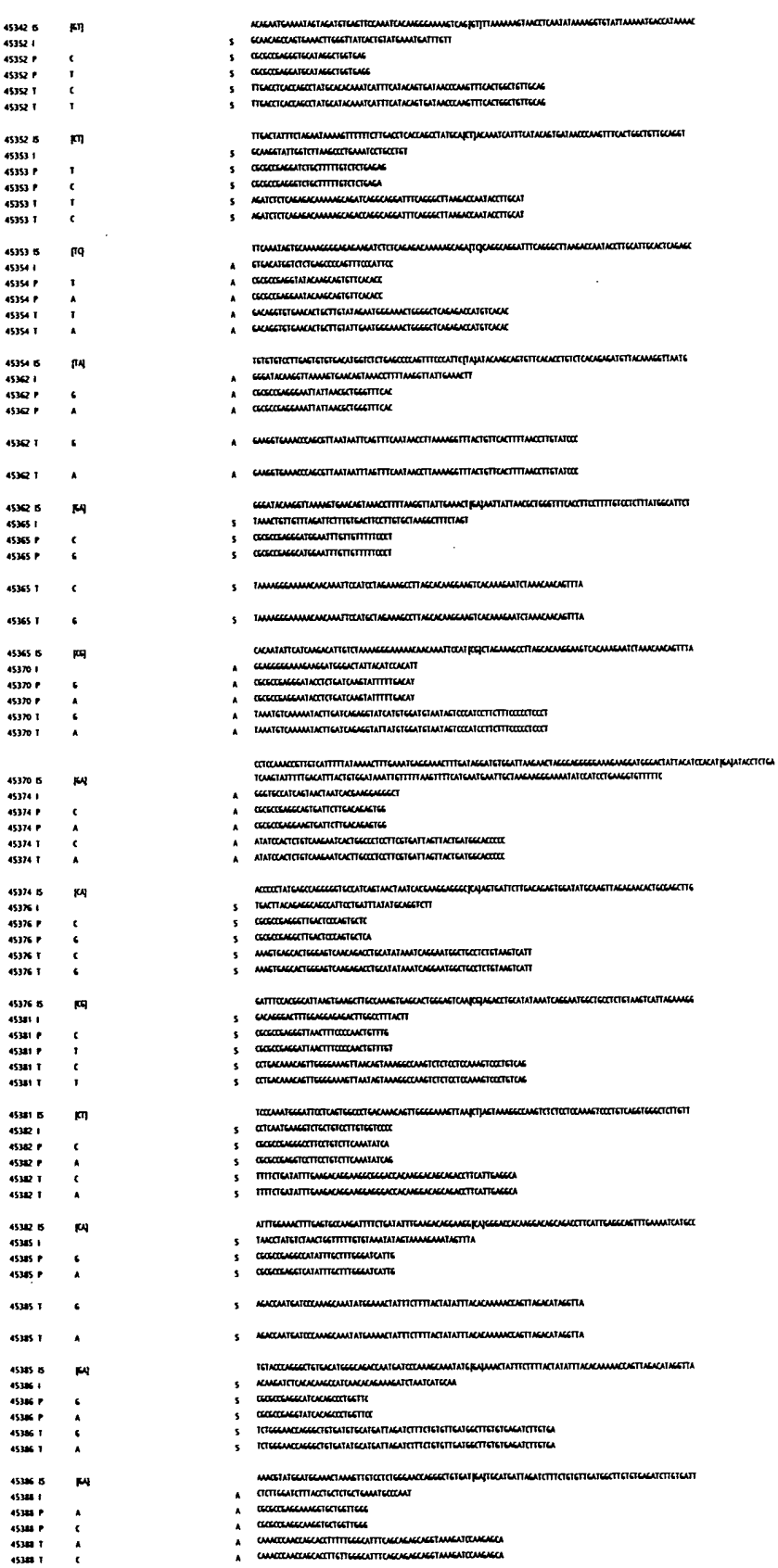


FIGURE 129F

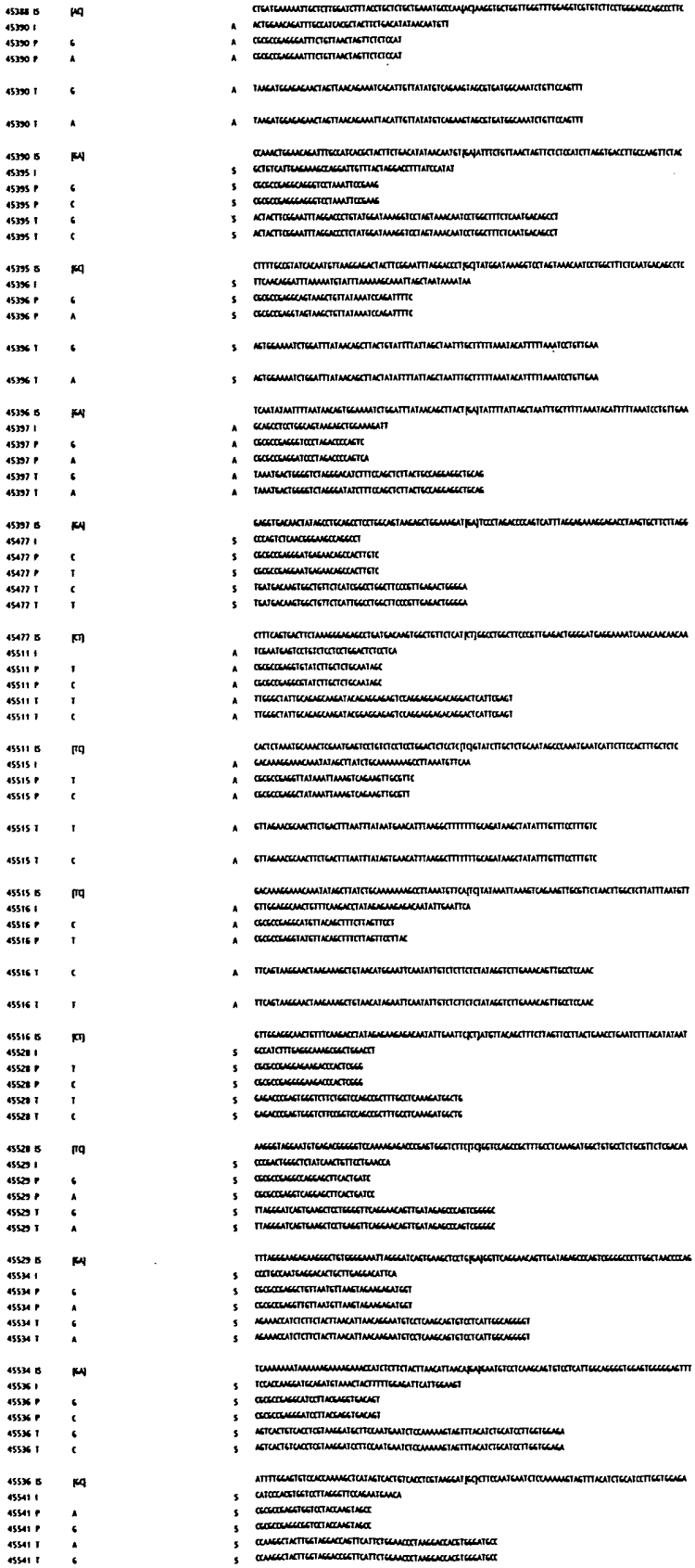
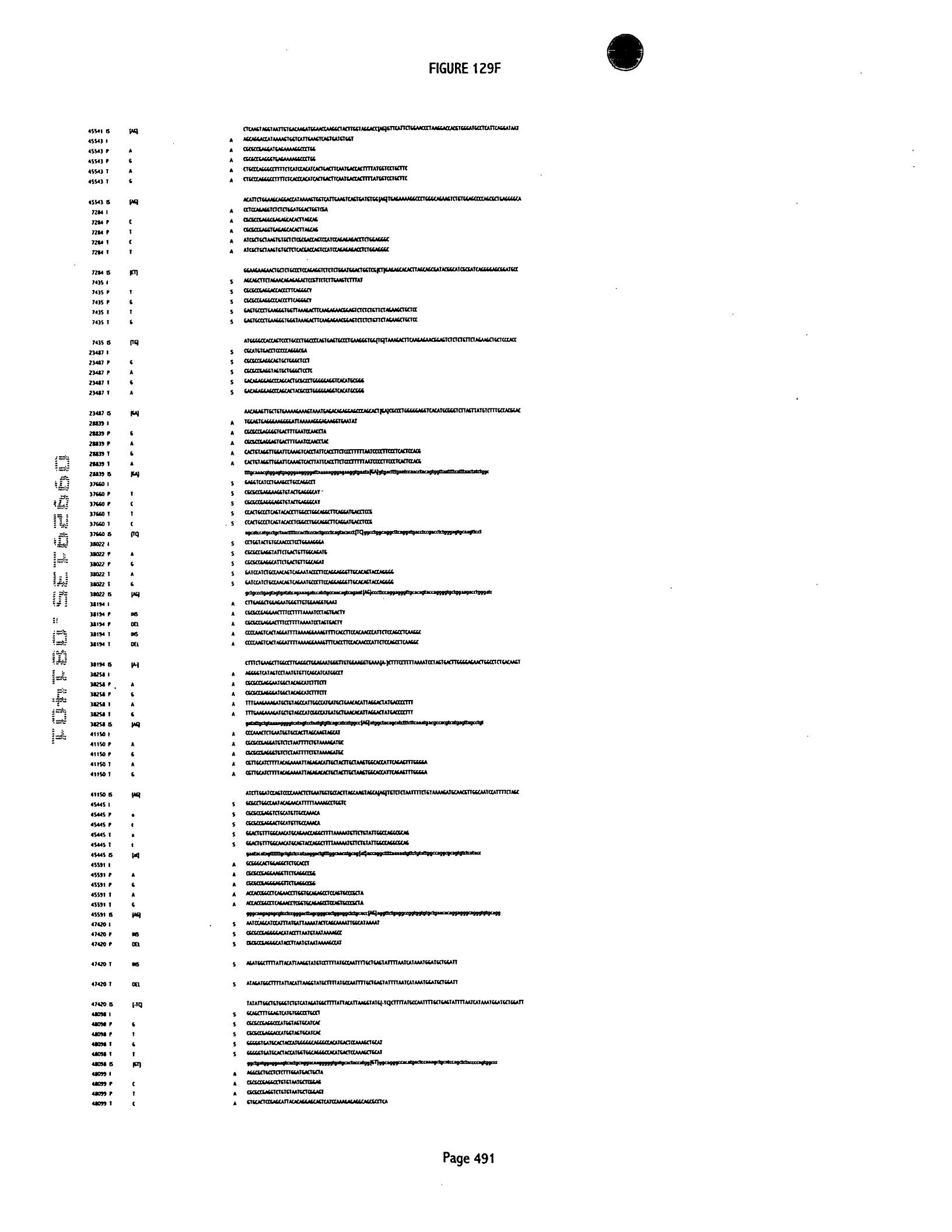
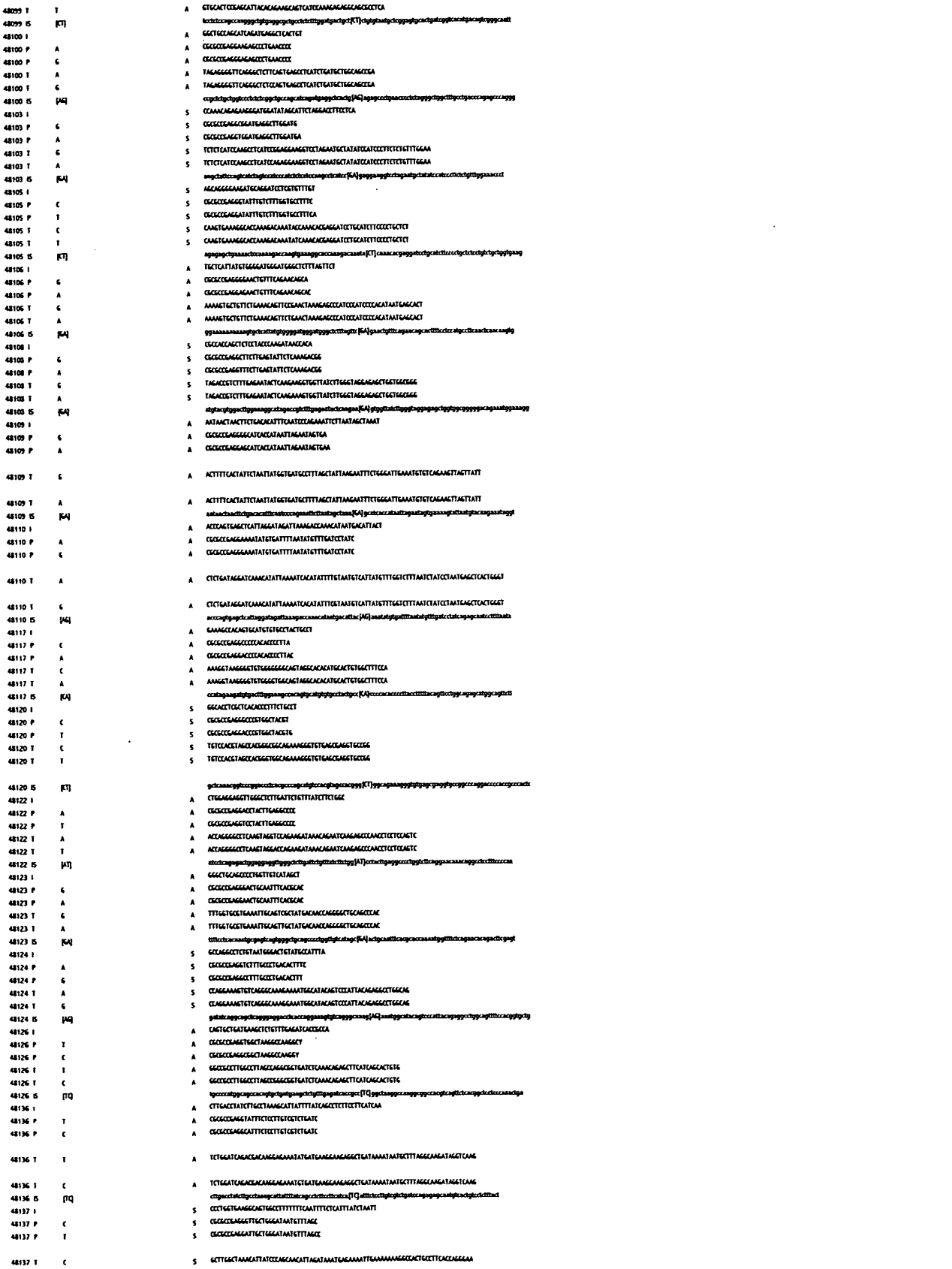
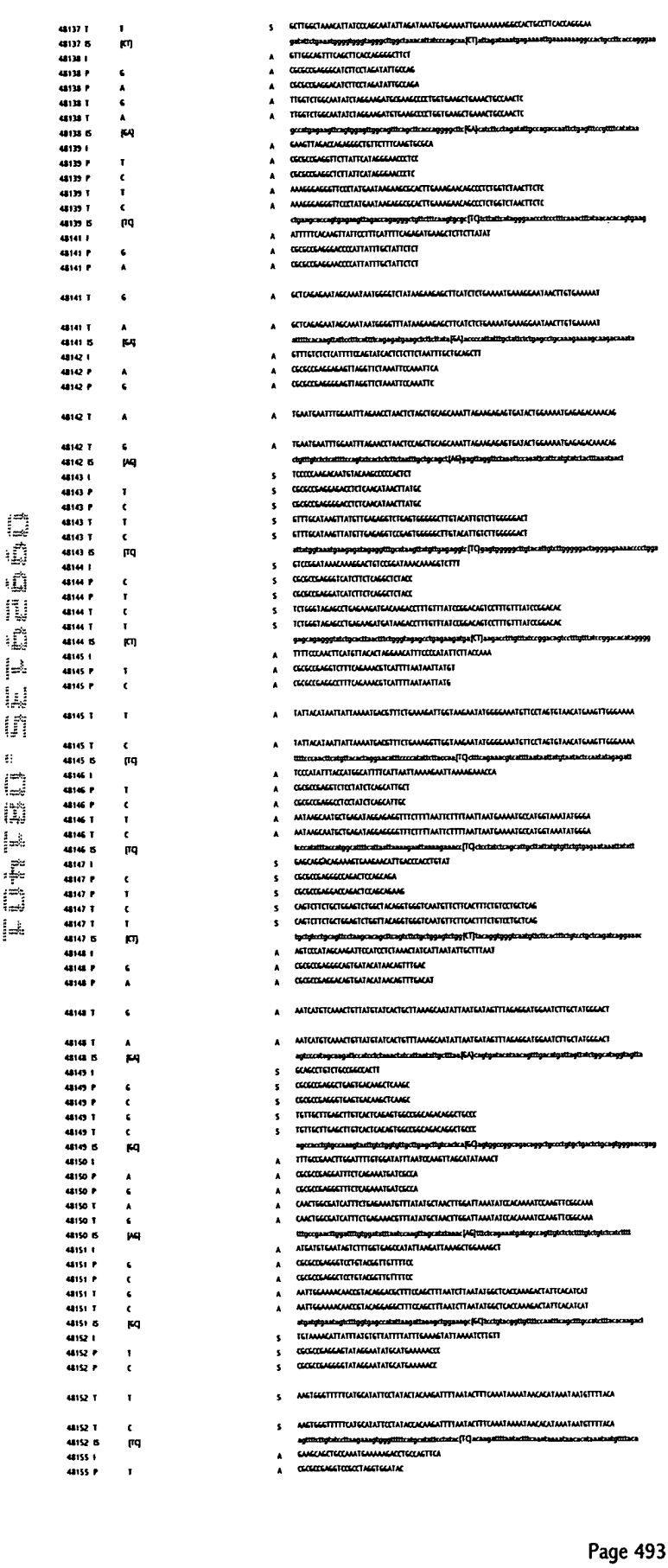
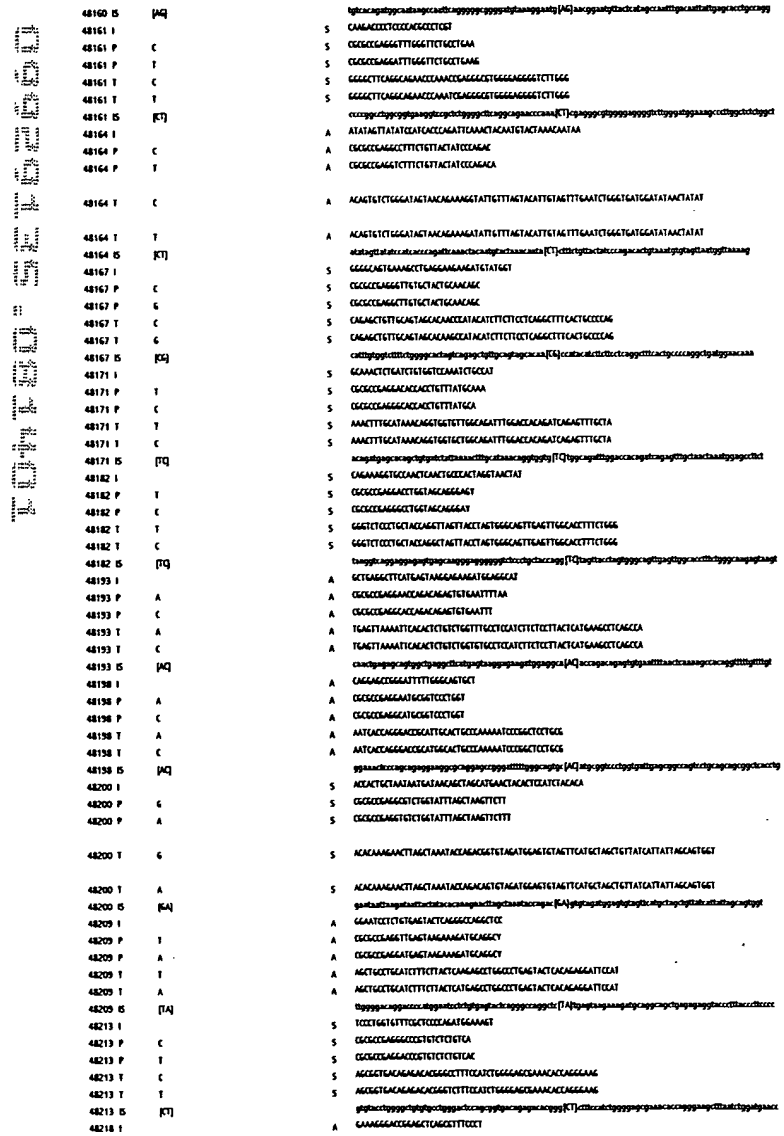


FIGURE 129F









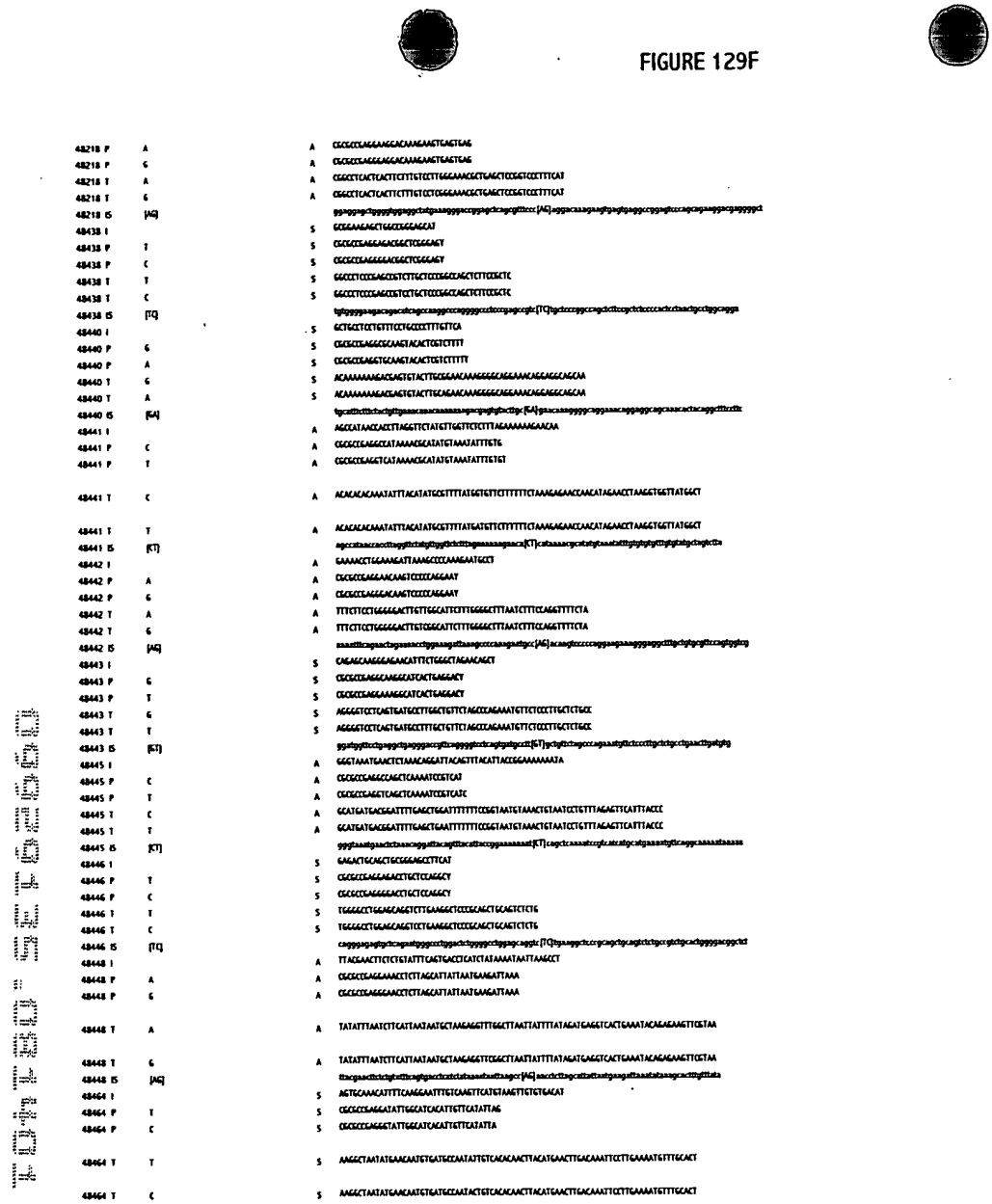


FIGURE 129F

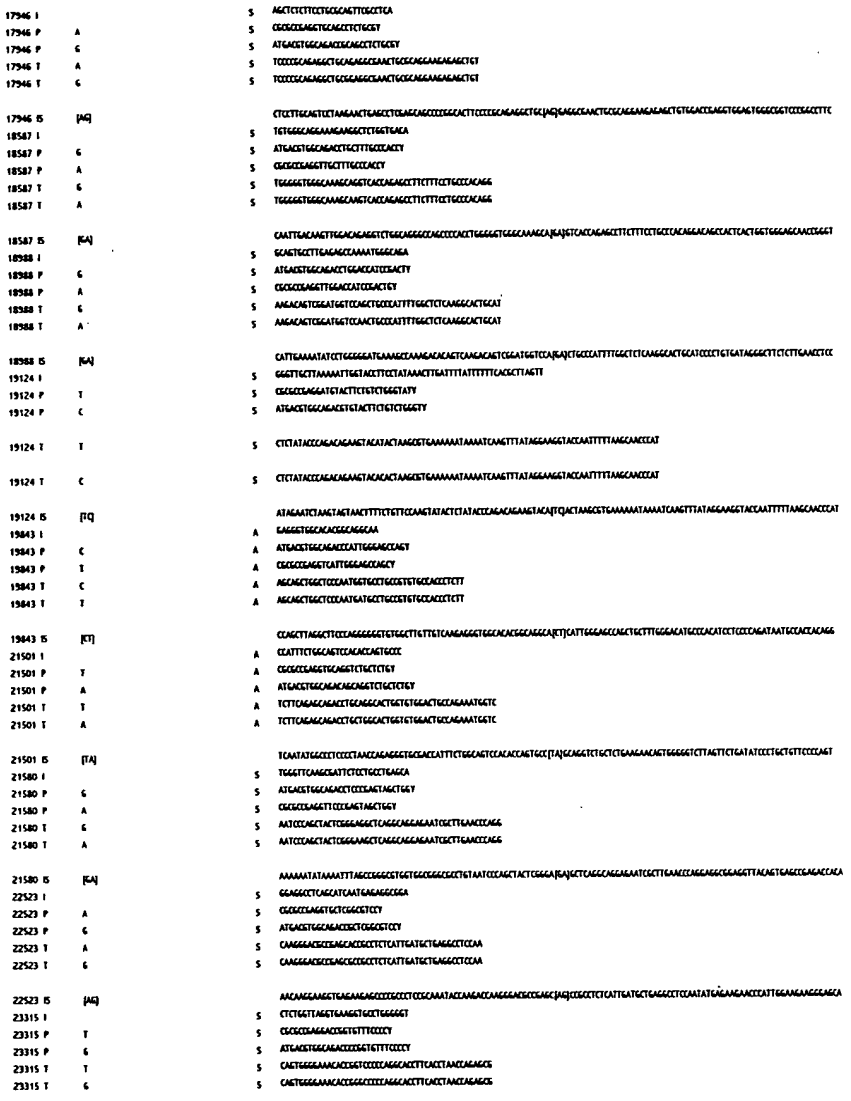


FIGURE 129F

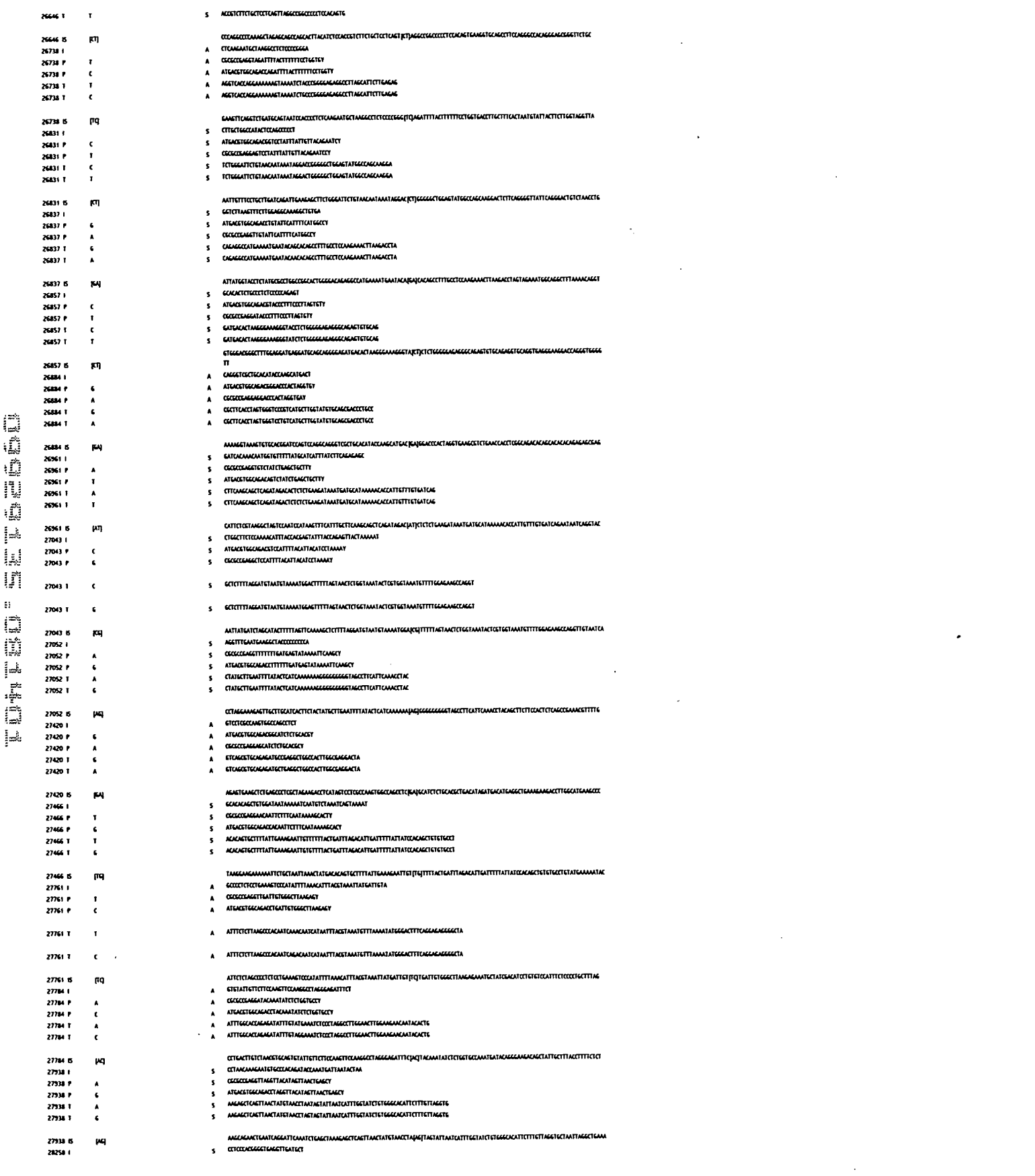
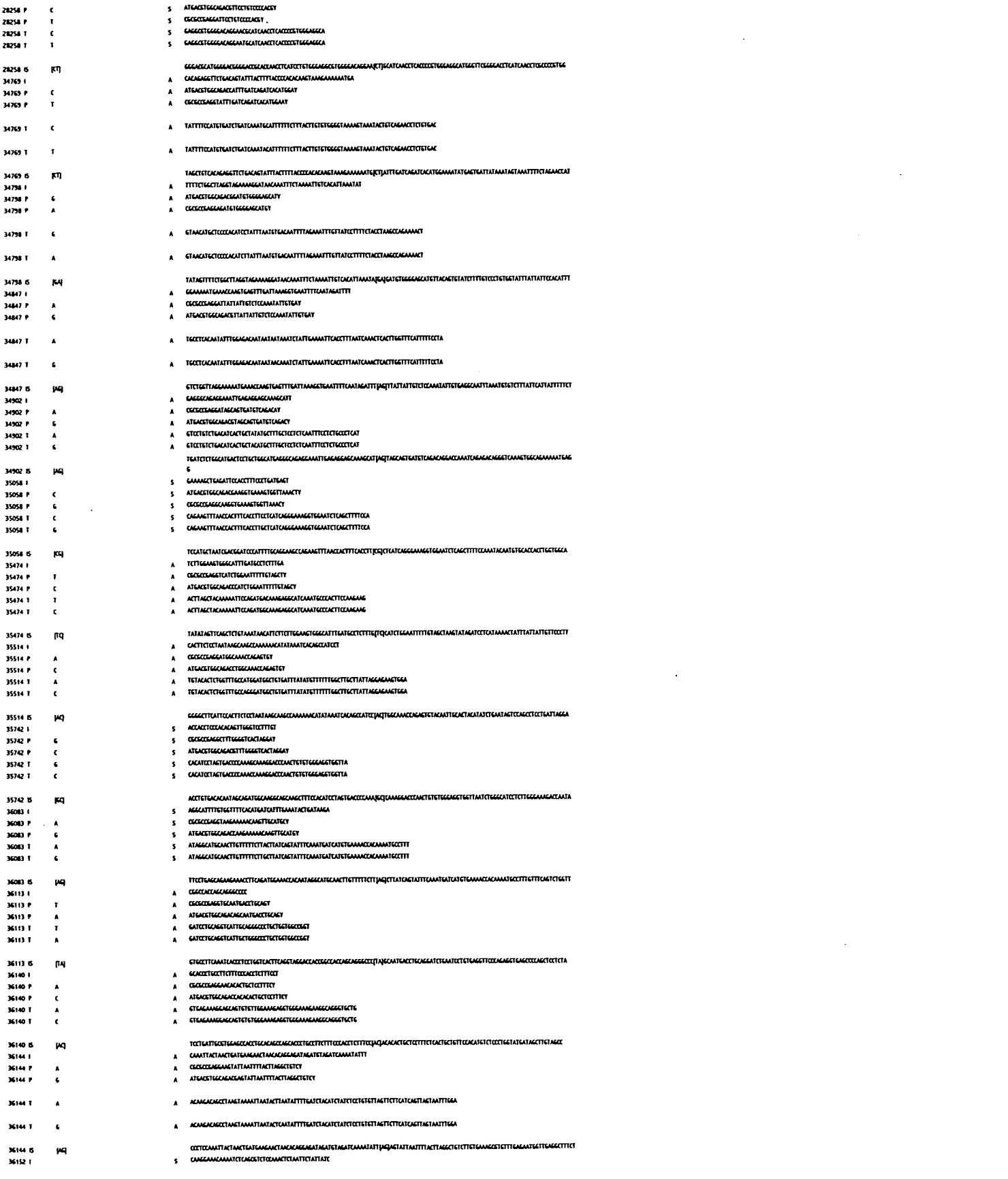
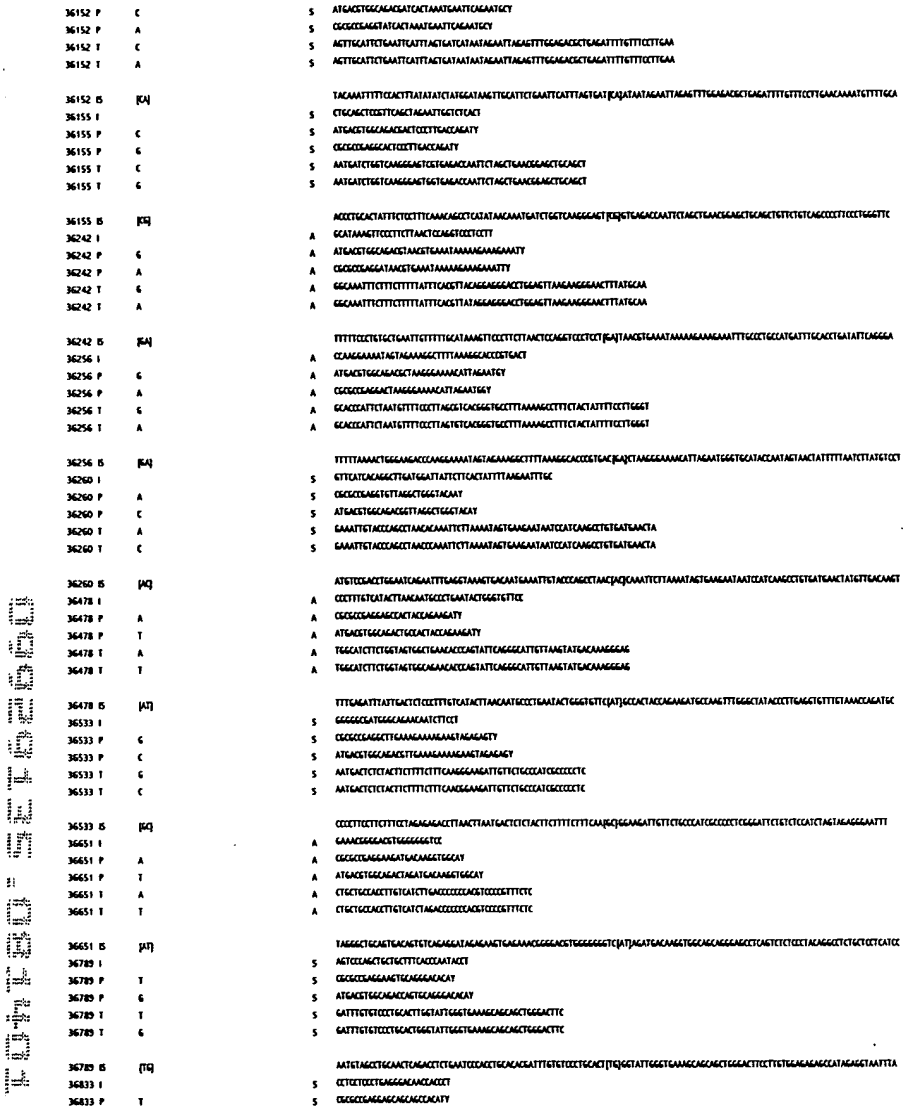
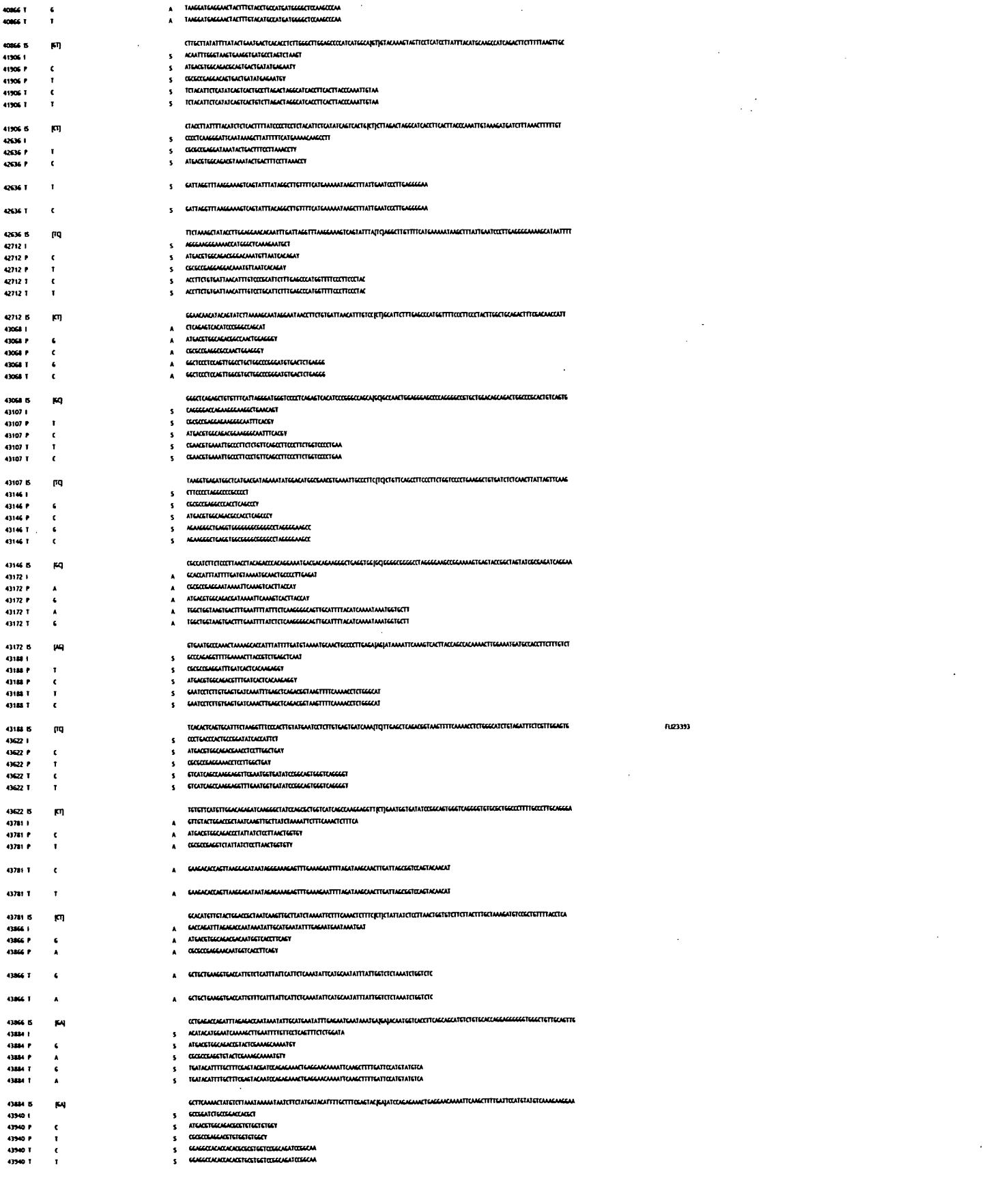


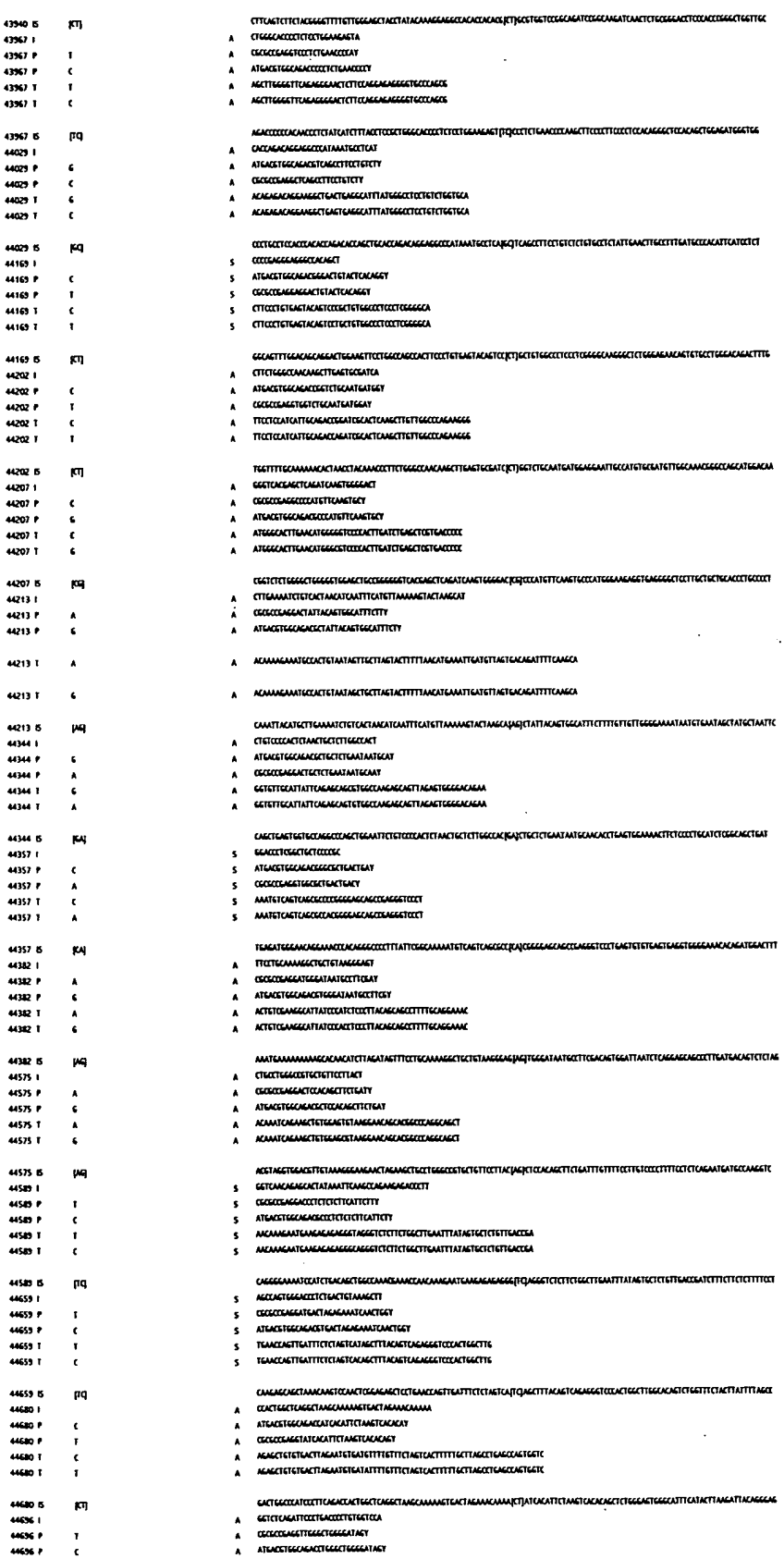
FIGURE 129F





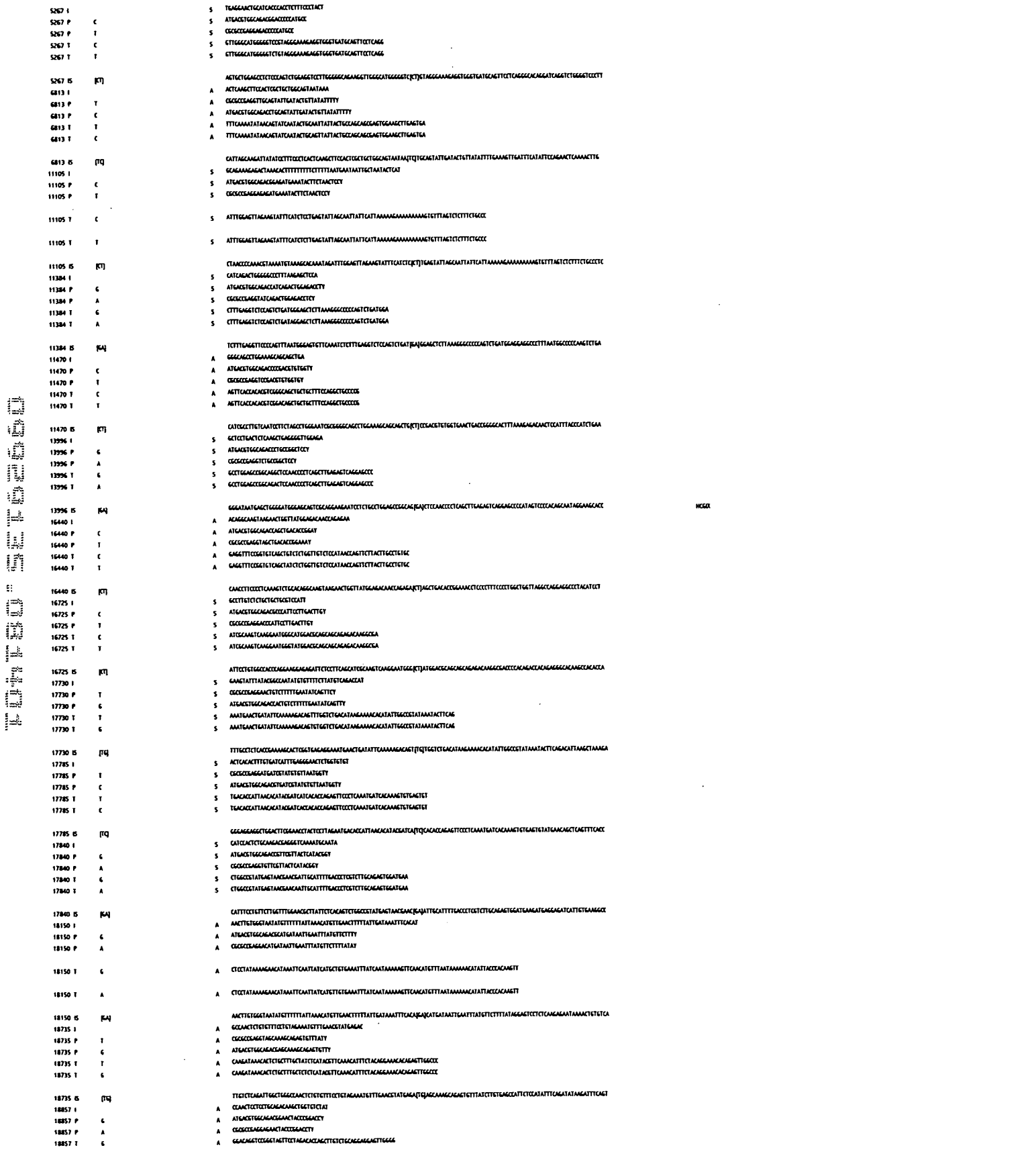








Patent Application Publication







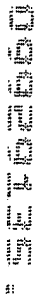


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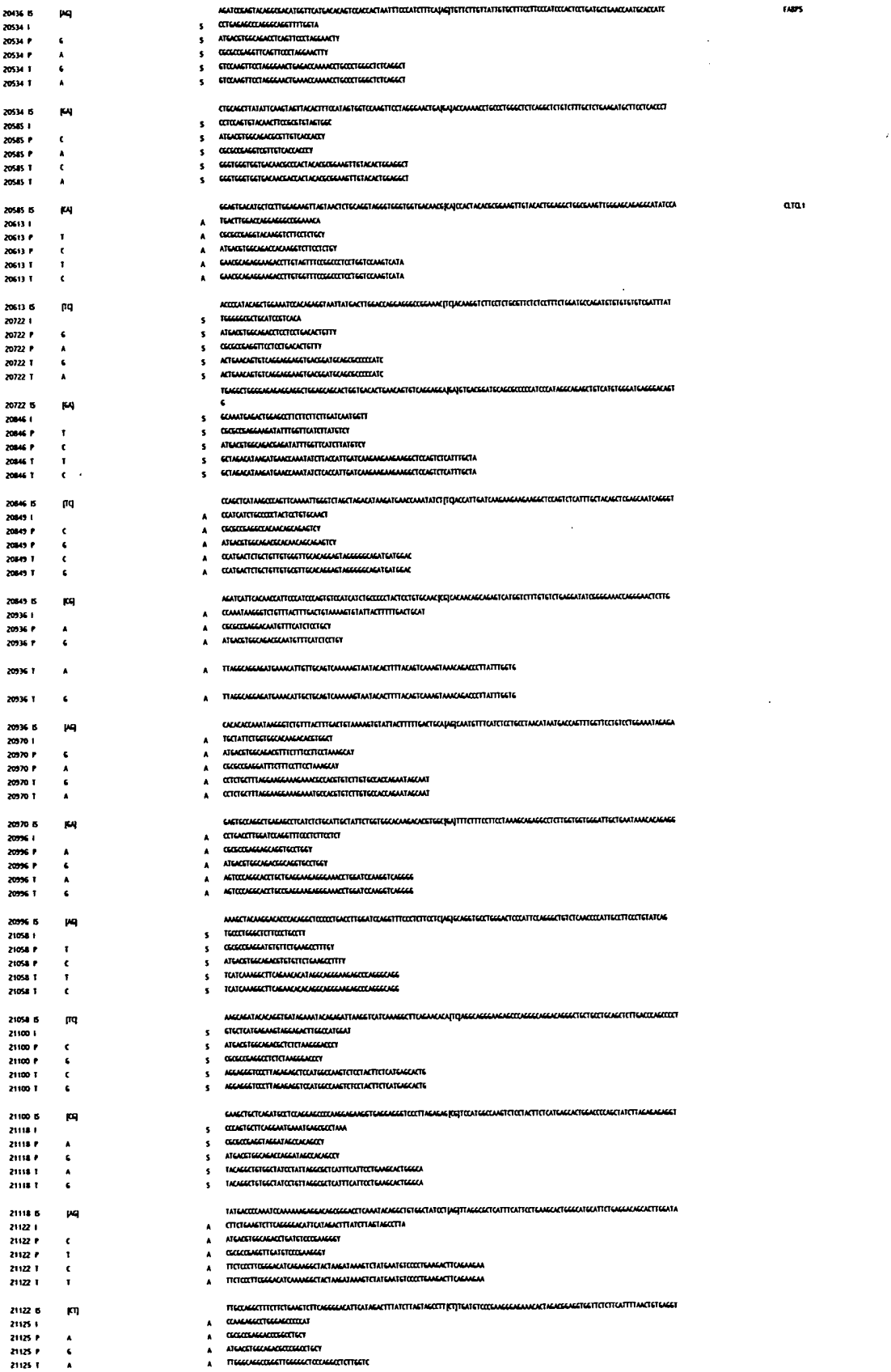


FIGURE 129F

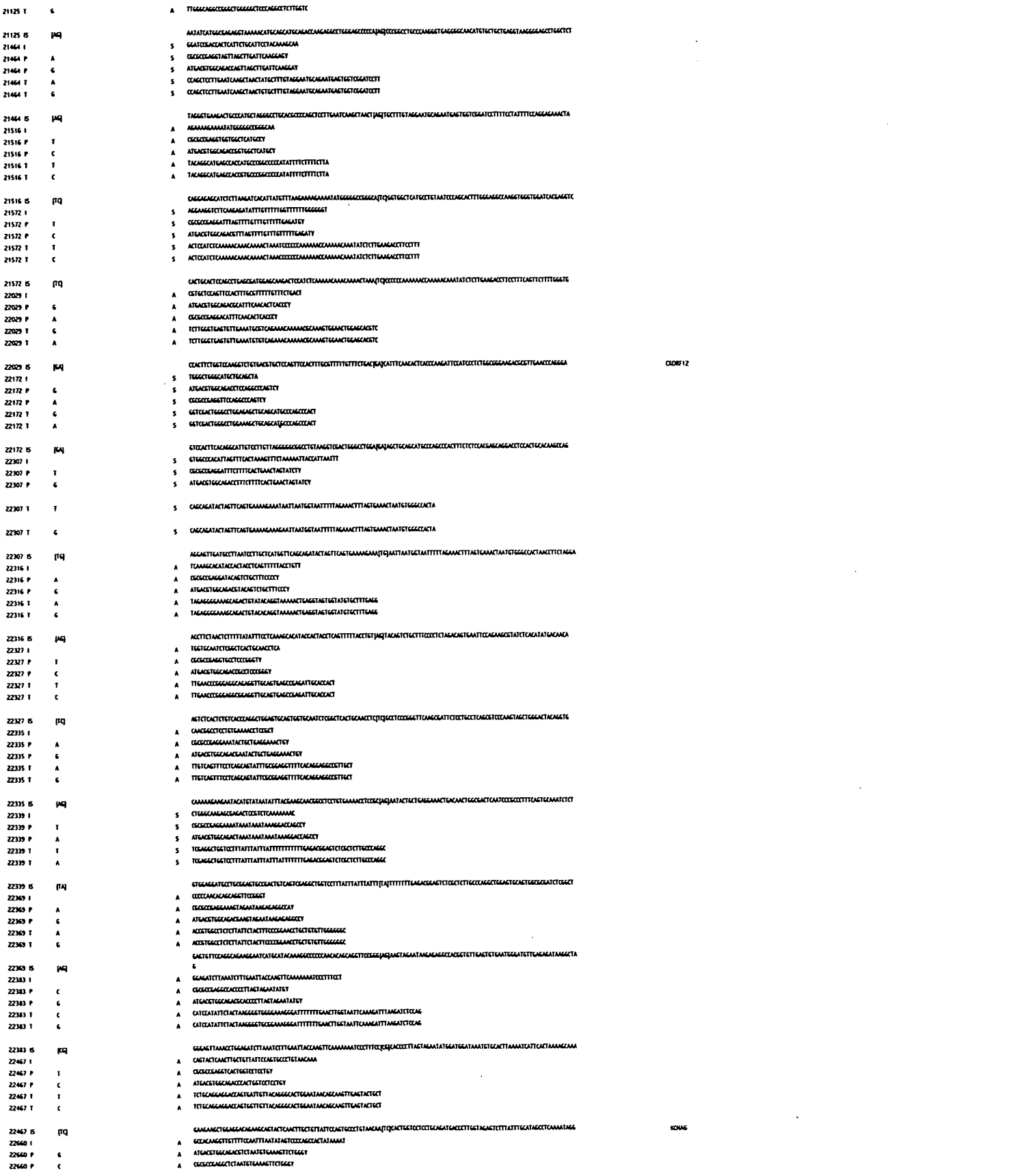


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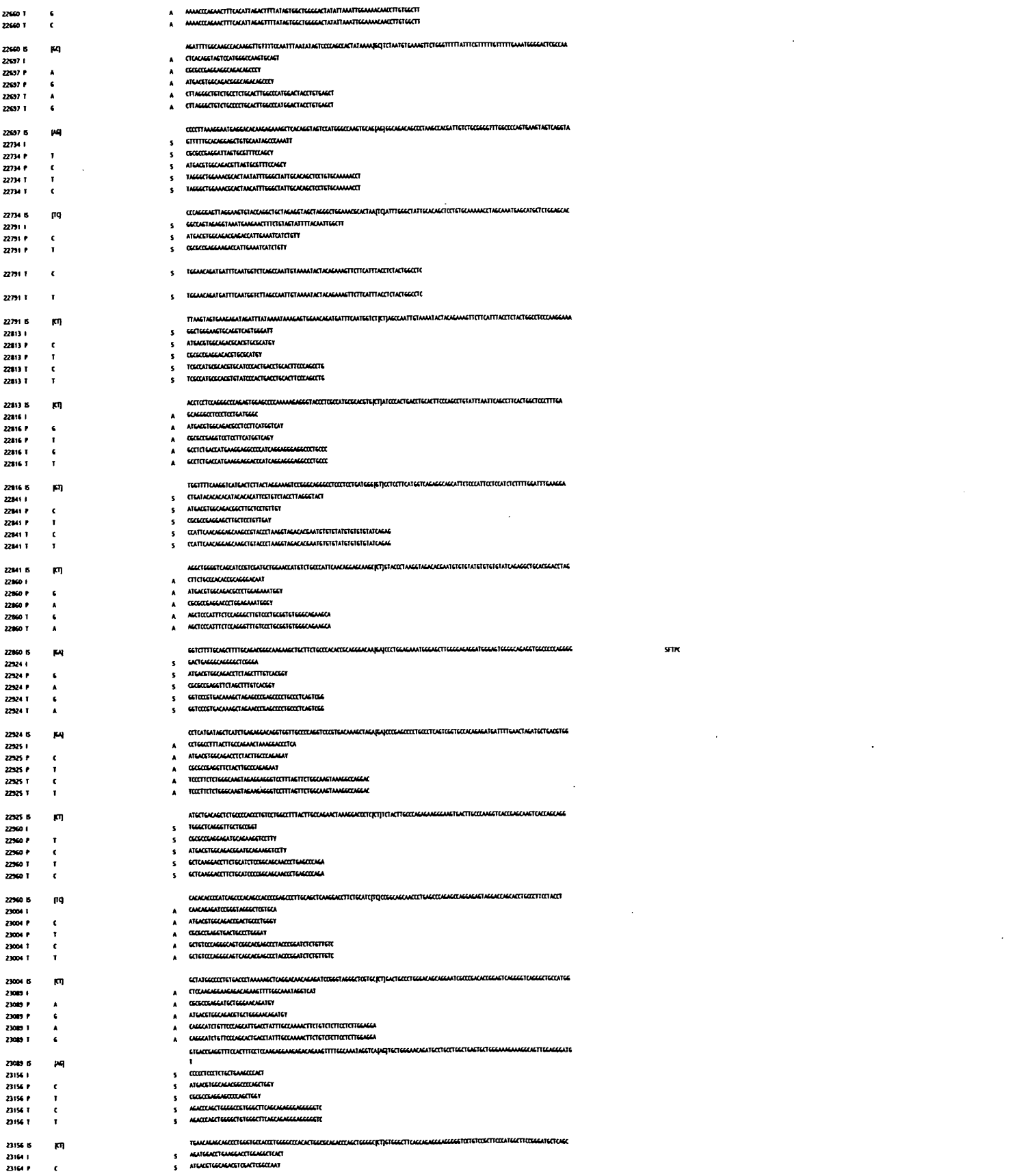
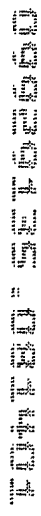


FIGURE 129F



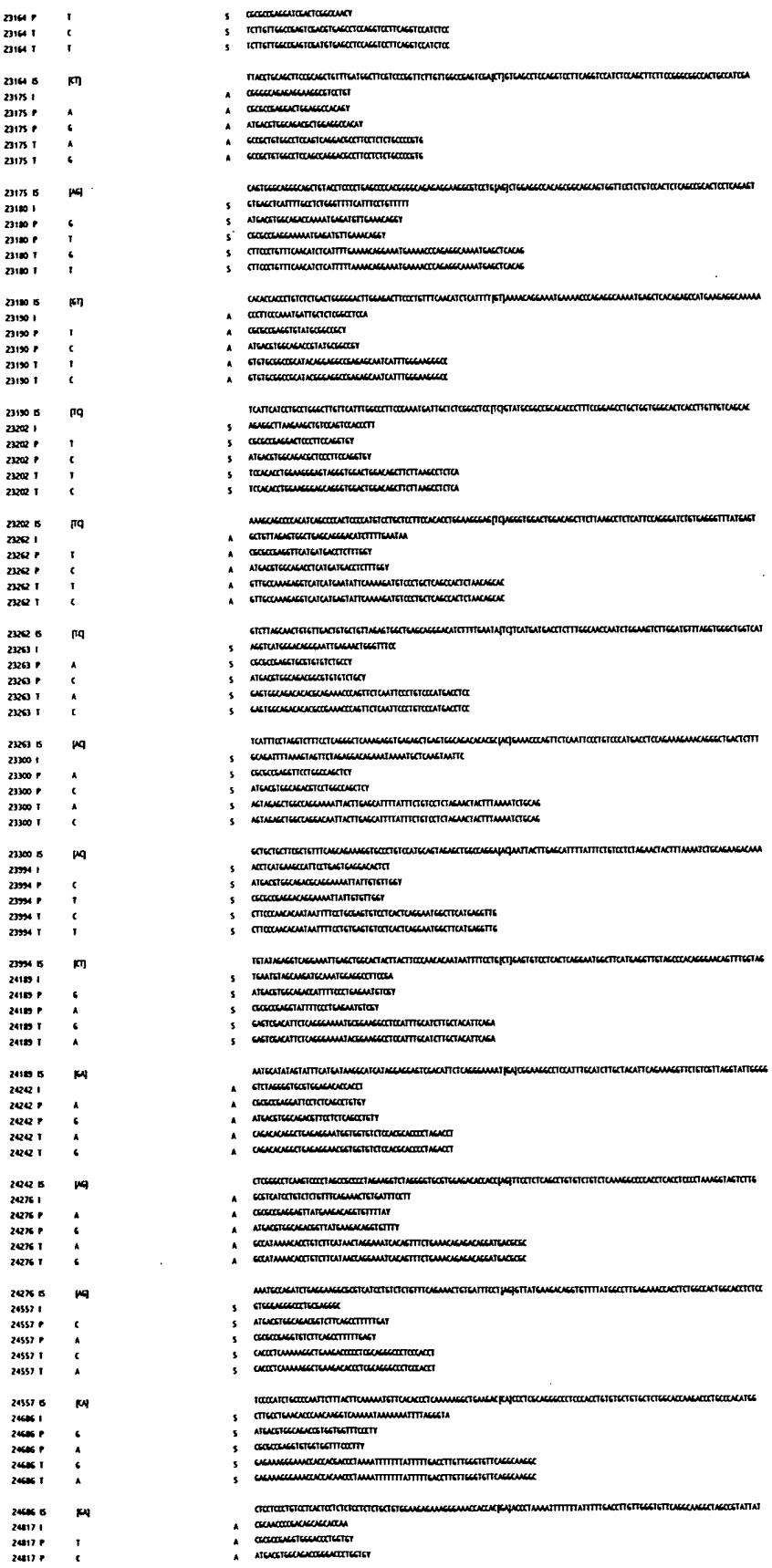
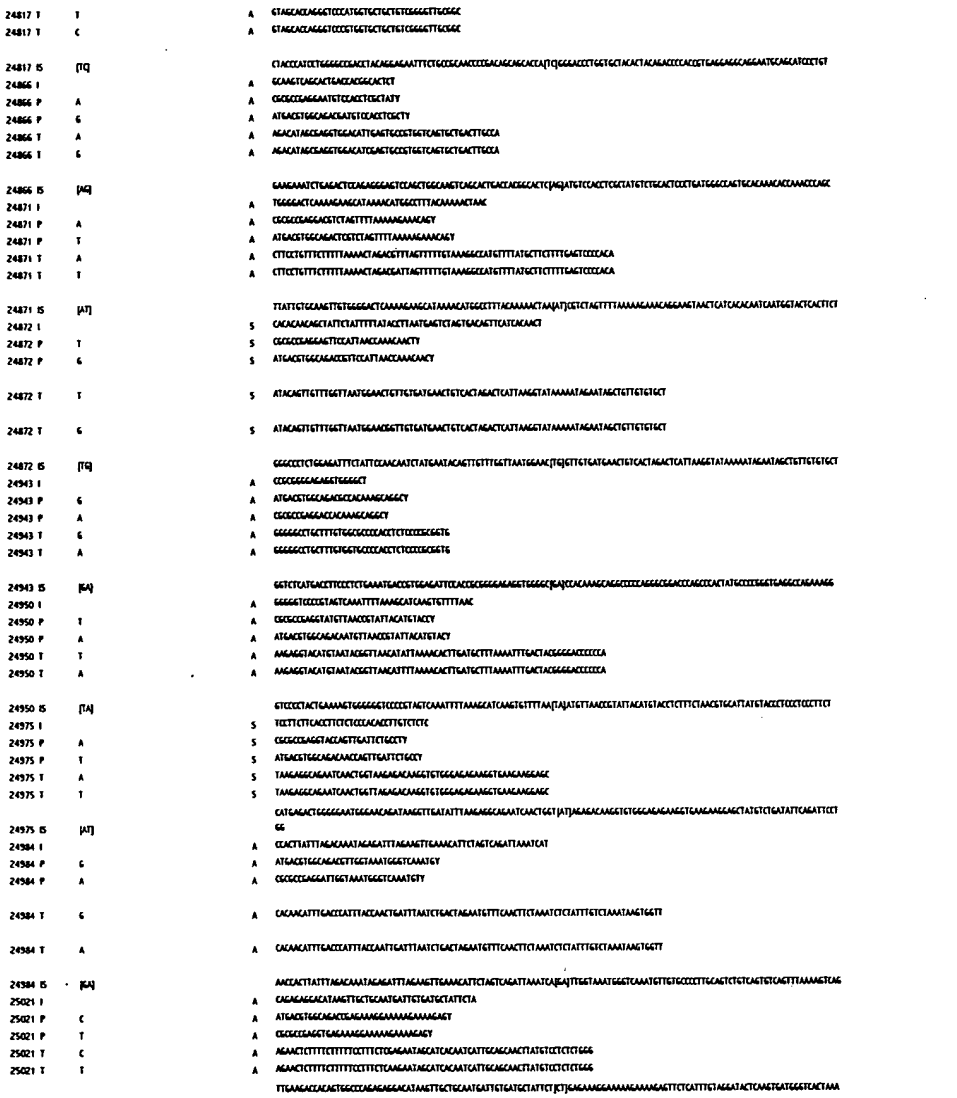


FIGURE 129F



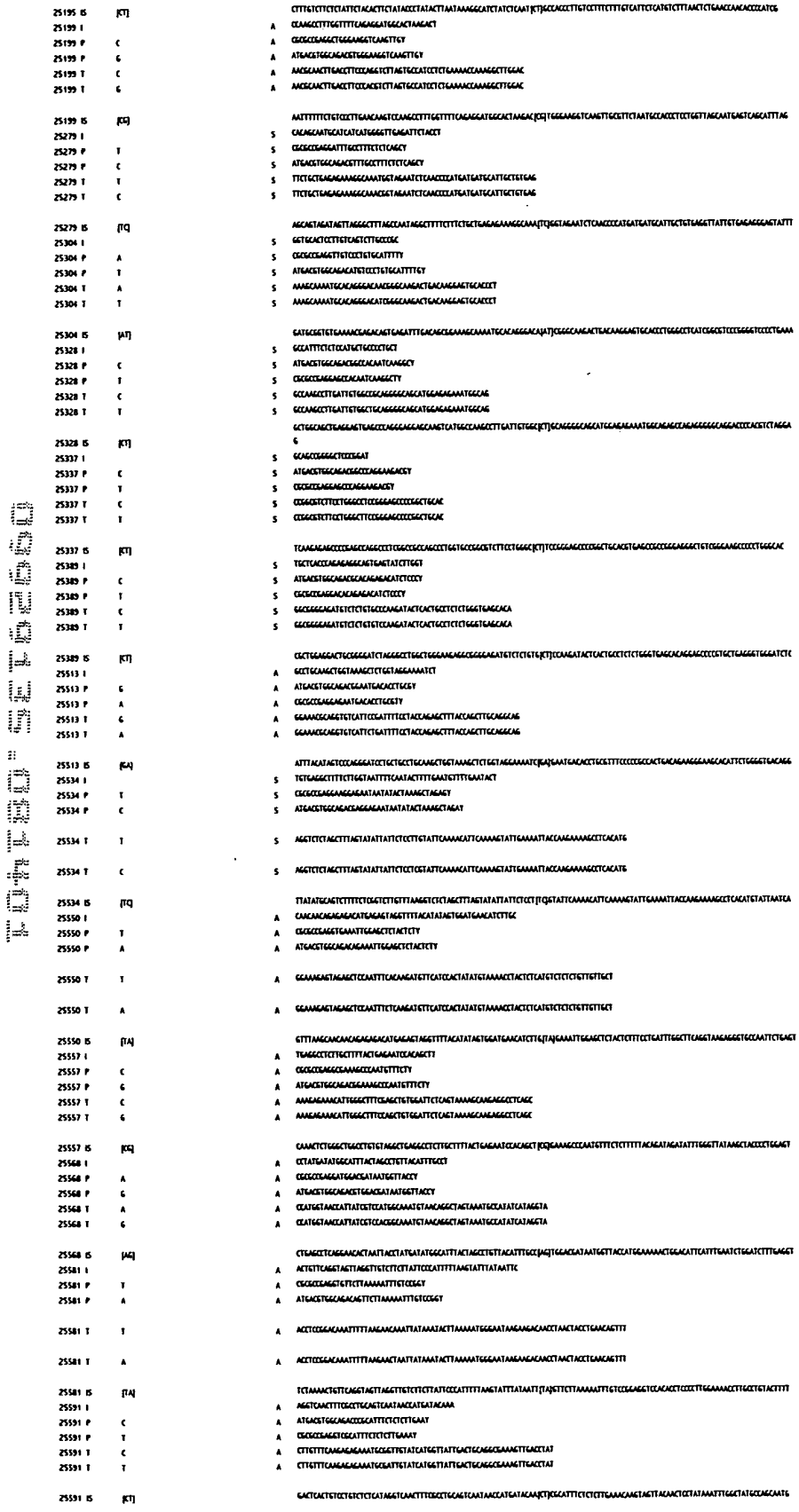


FIGURE 129F

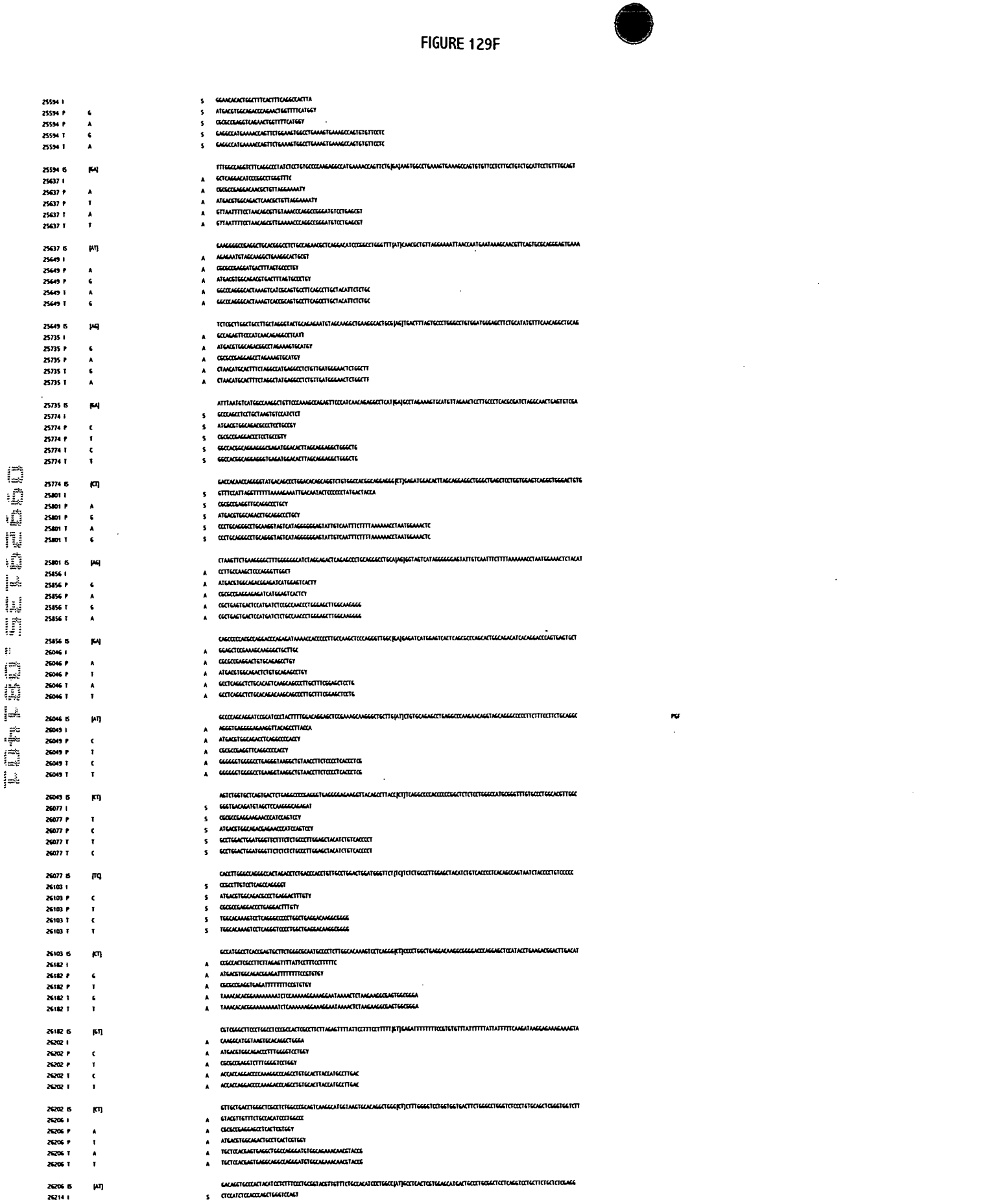


FIGURE 129F

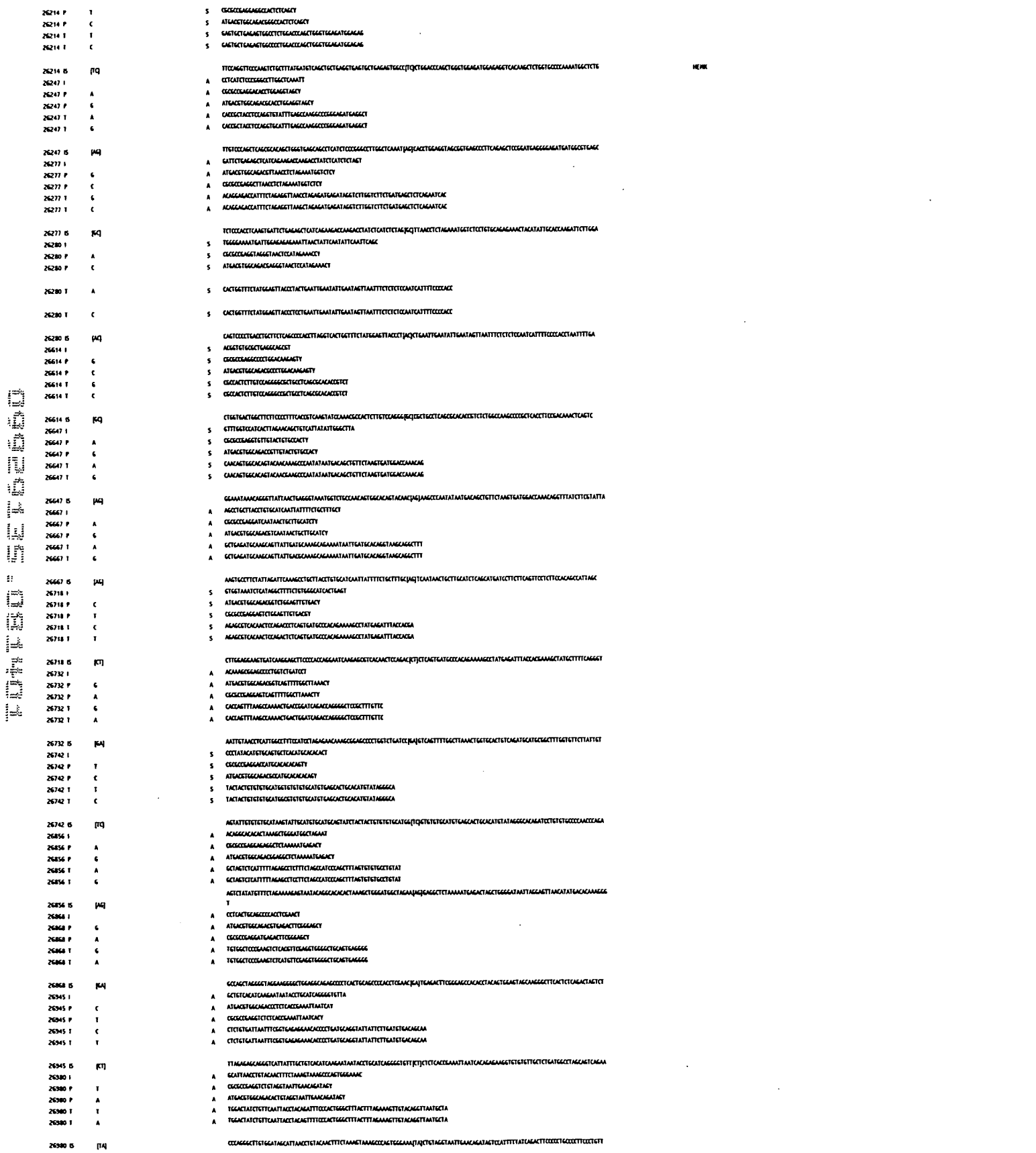


FIGURE 129F

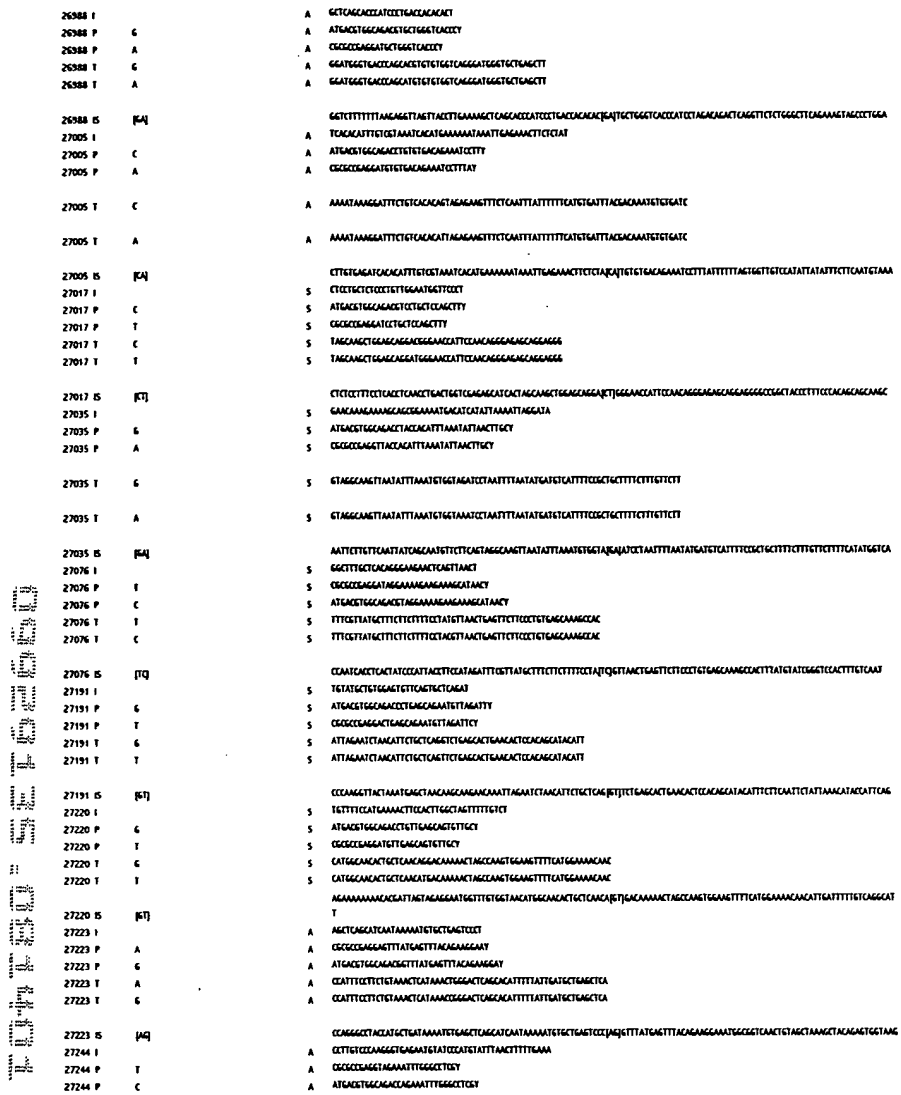


FIGURE 129F

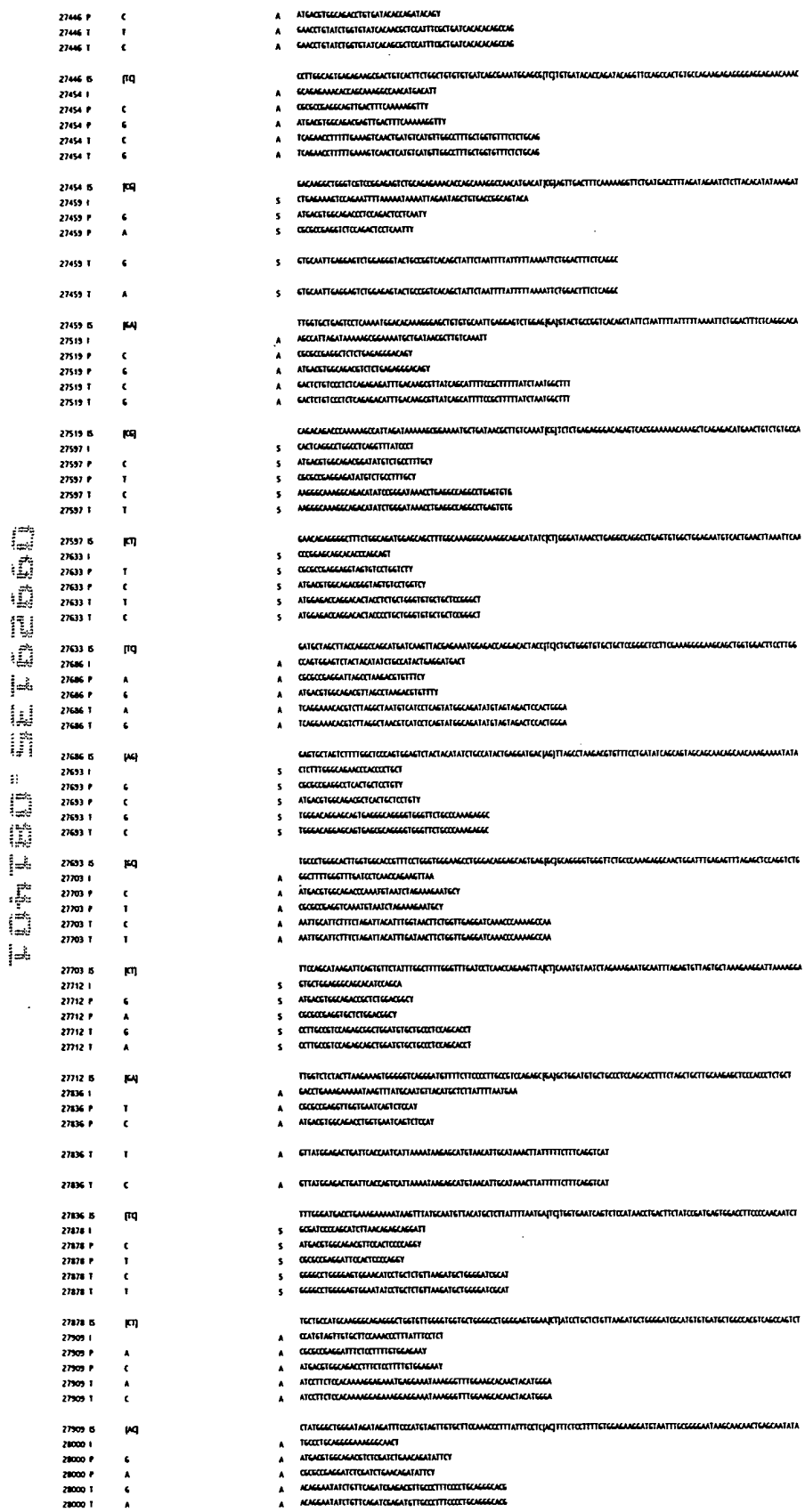
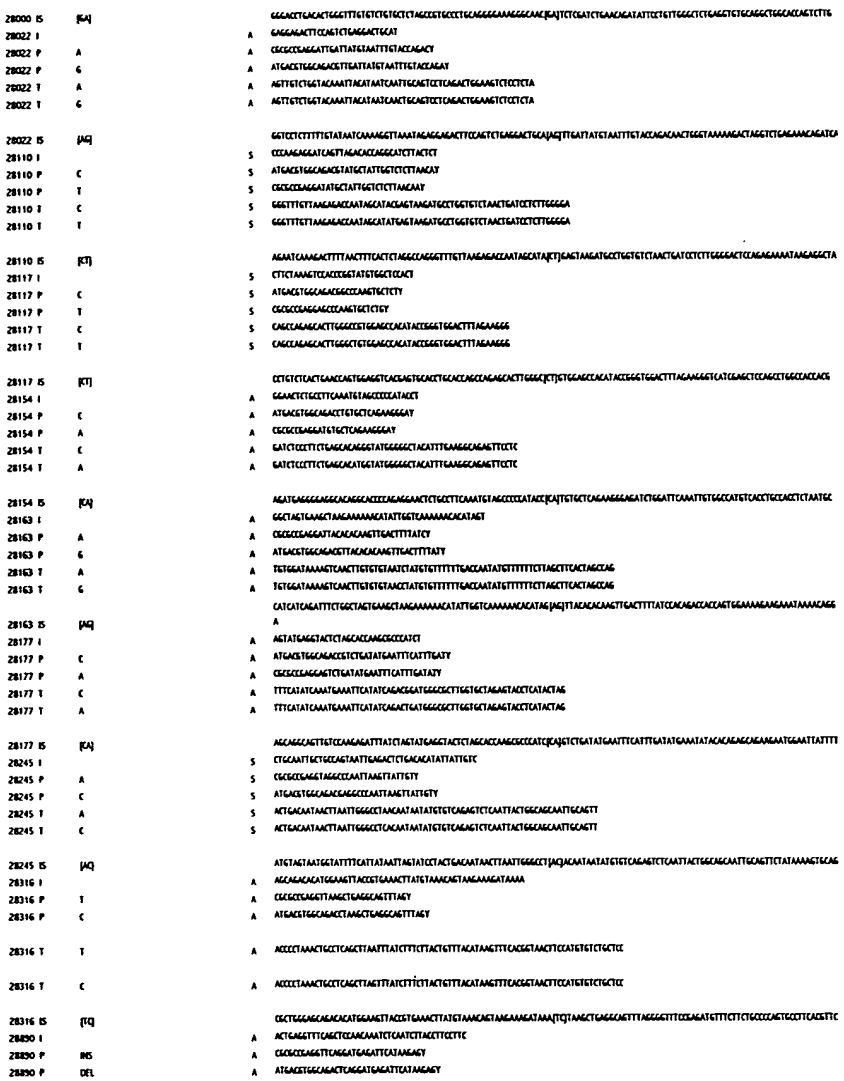
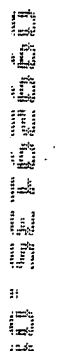


FIGURE 129F











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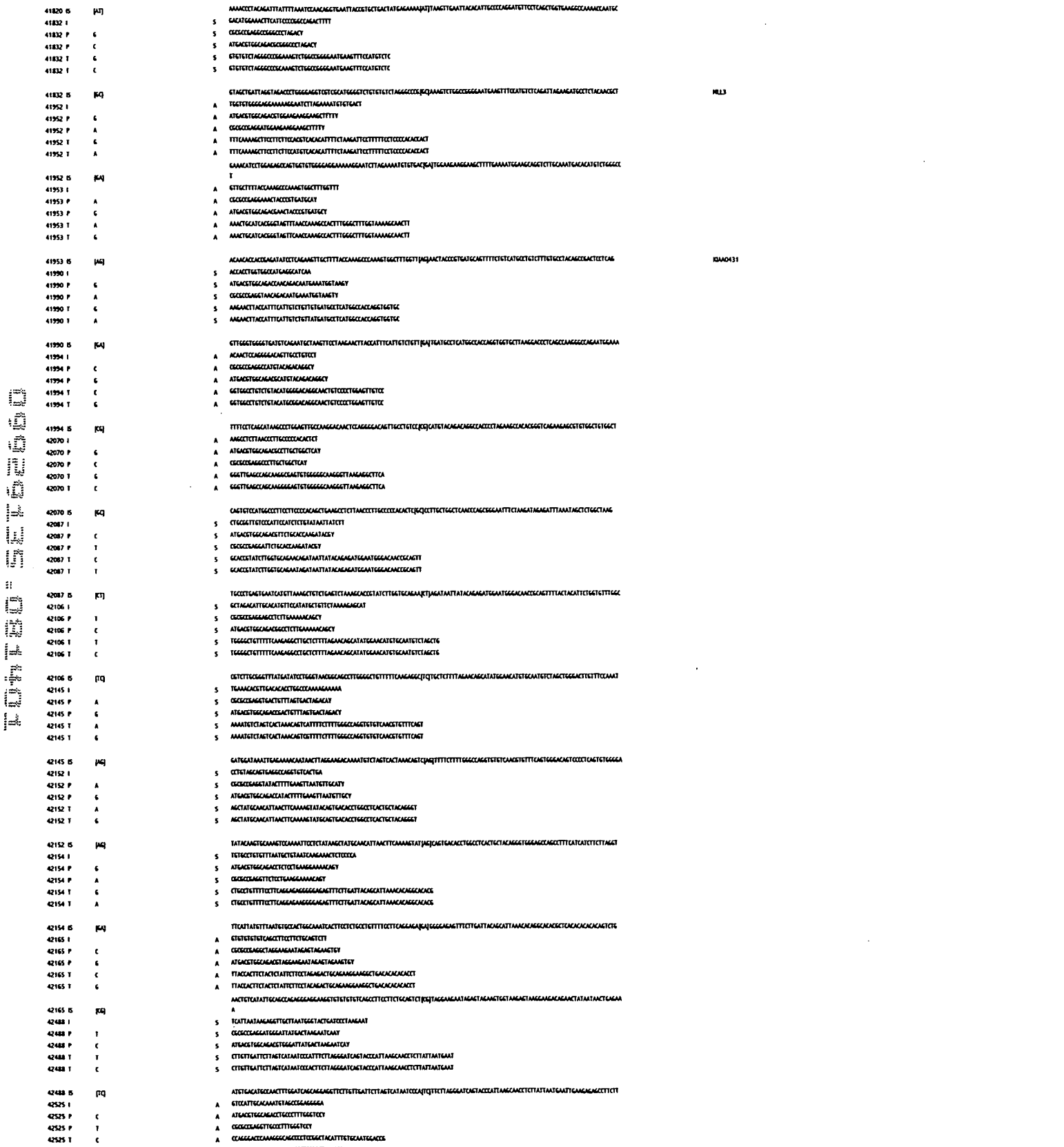
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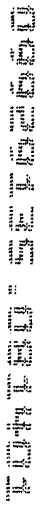
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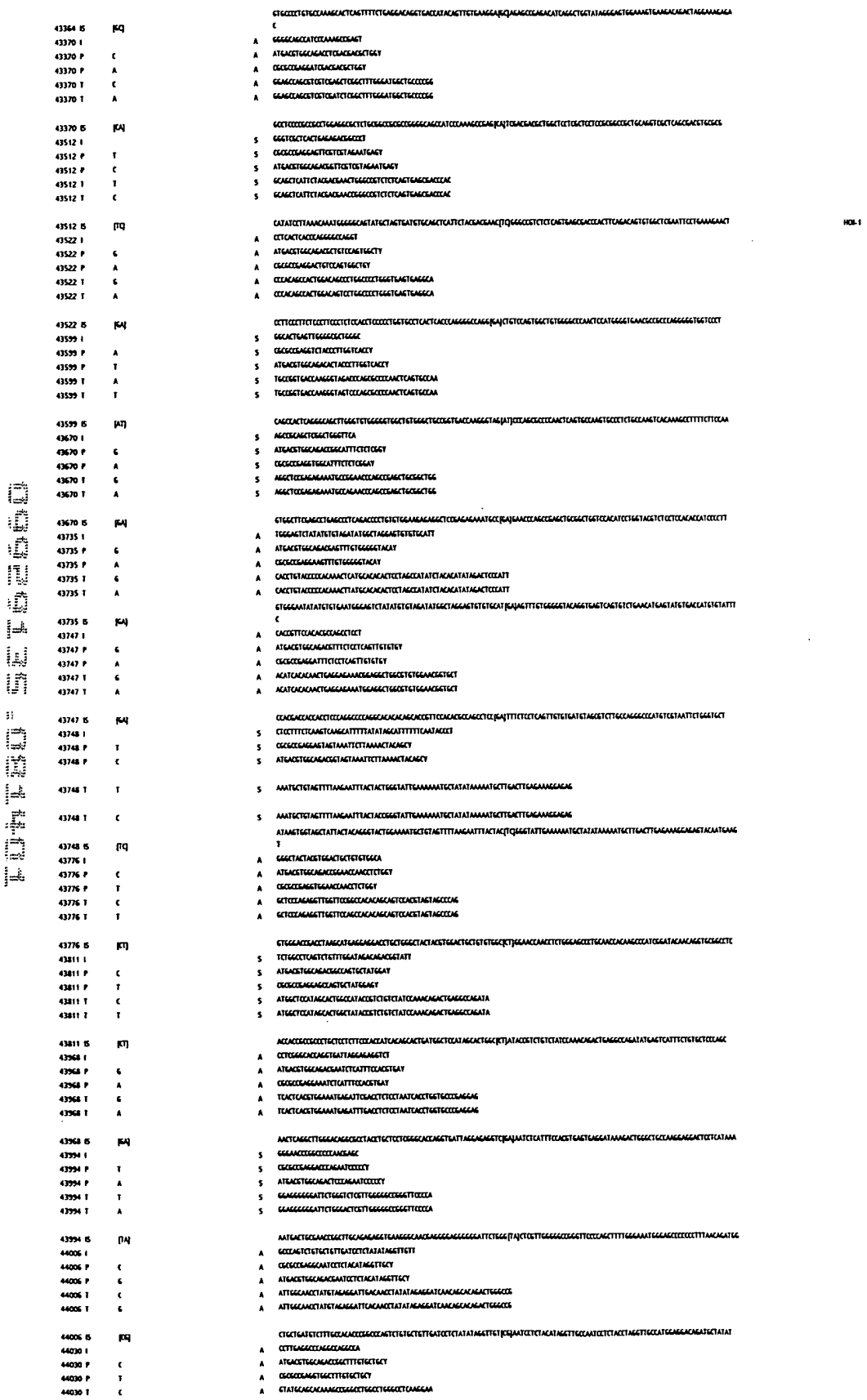
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FIGURE 129F







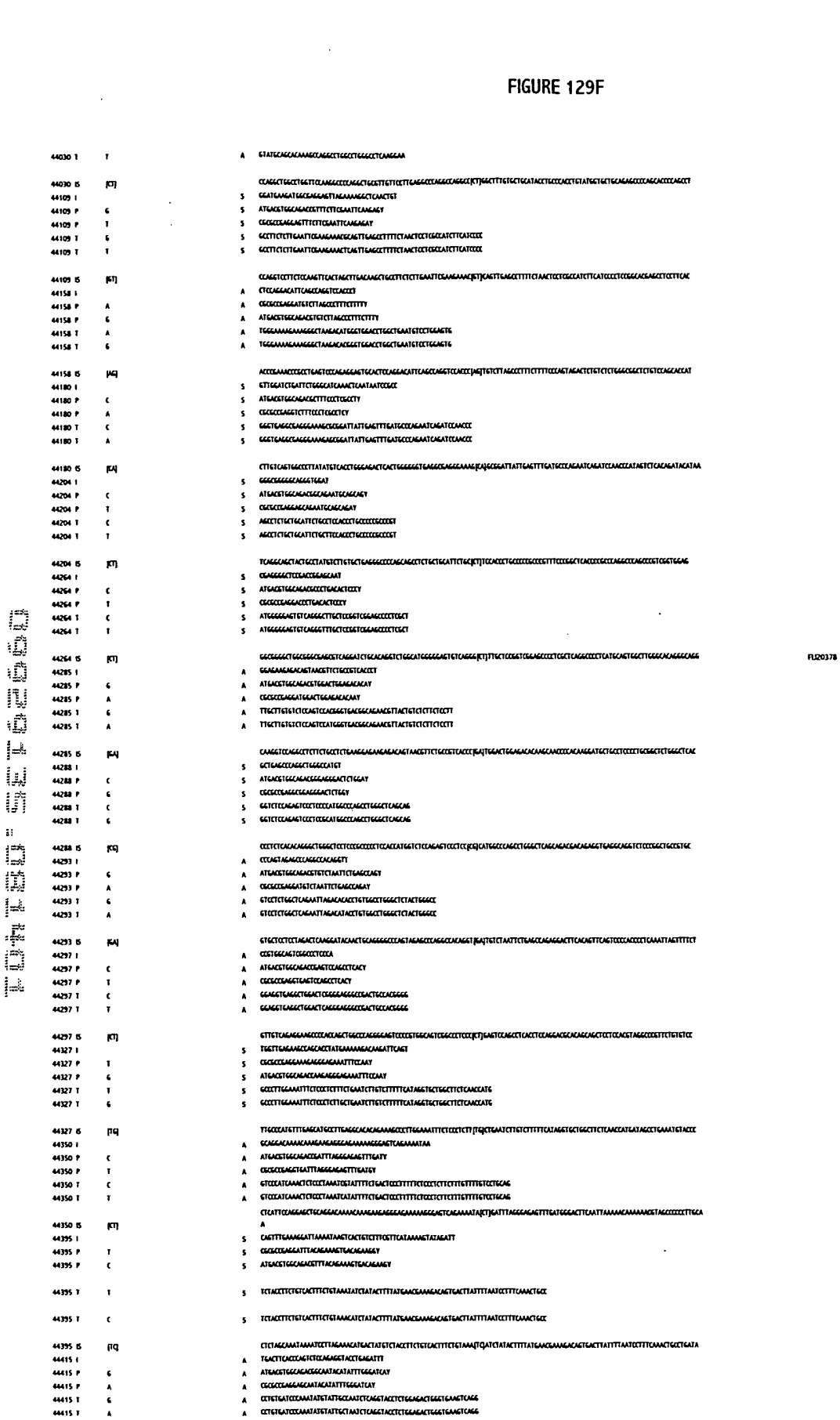
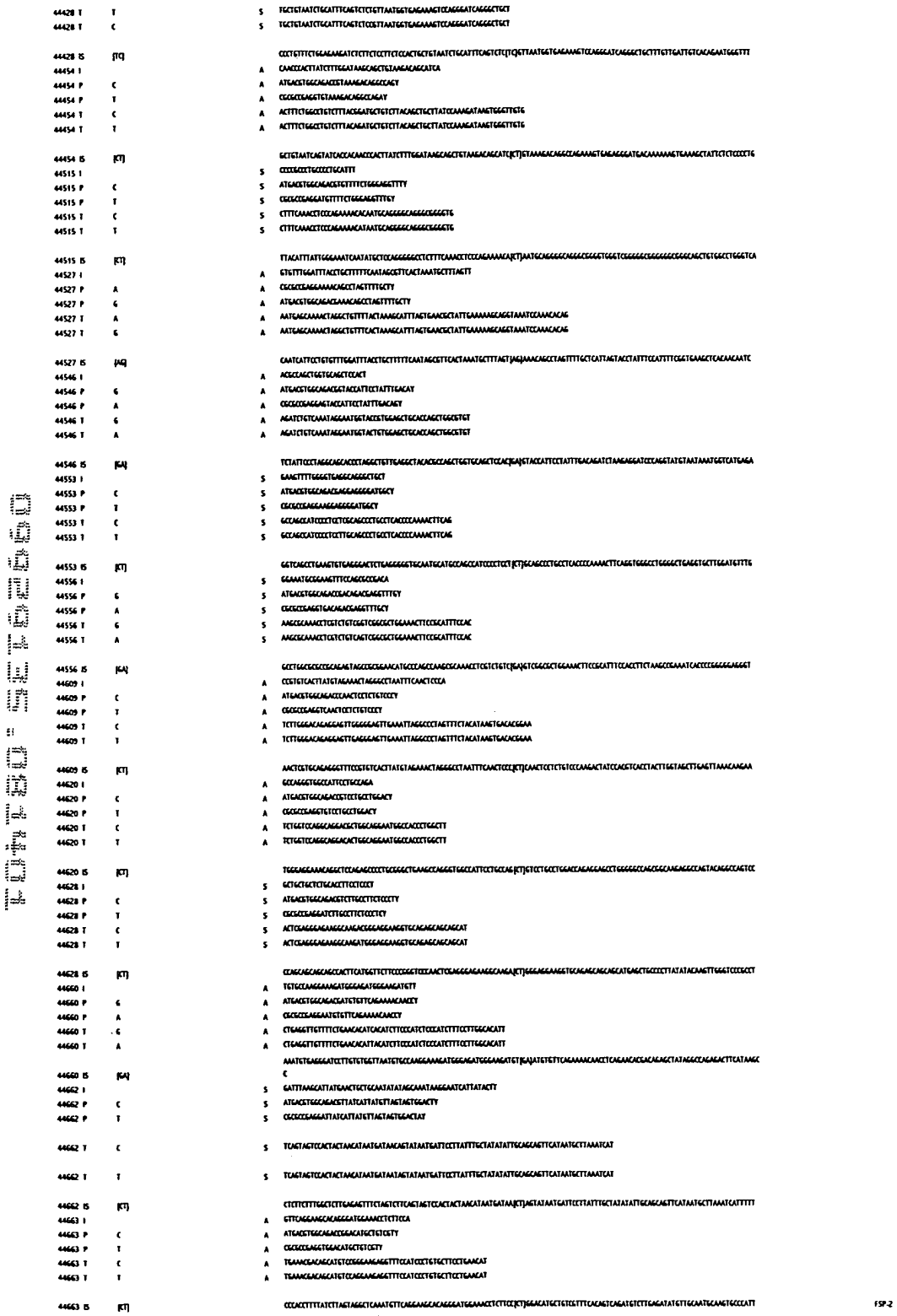
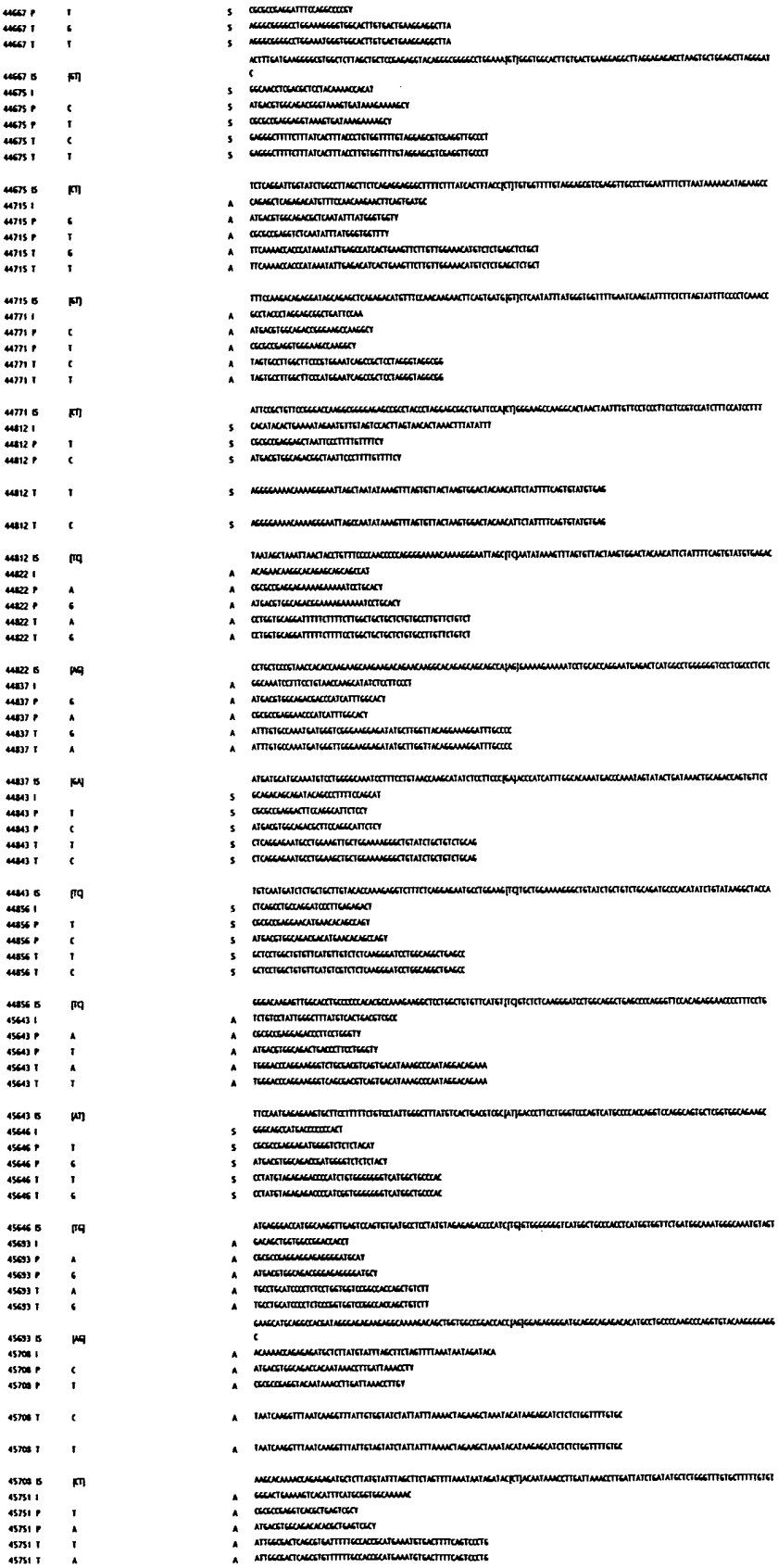
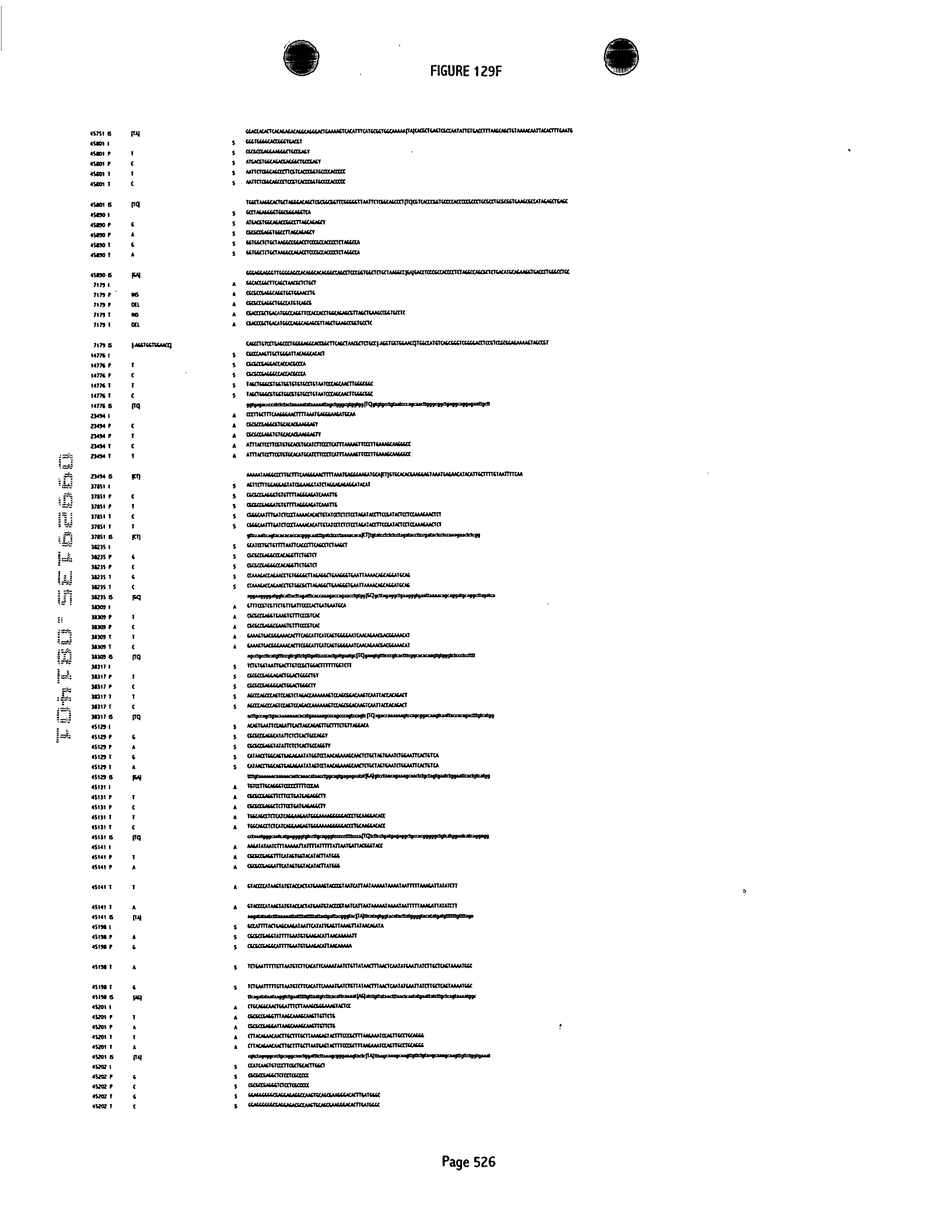
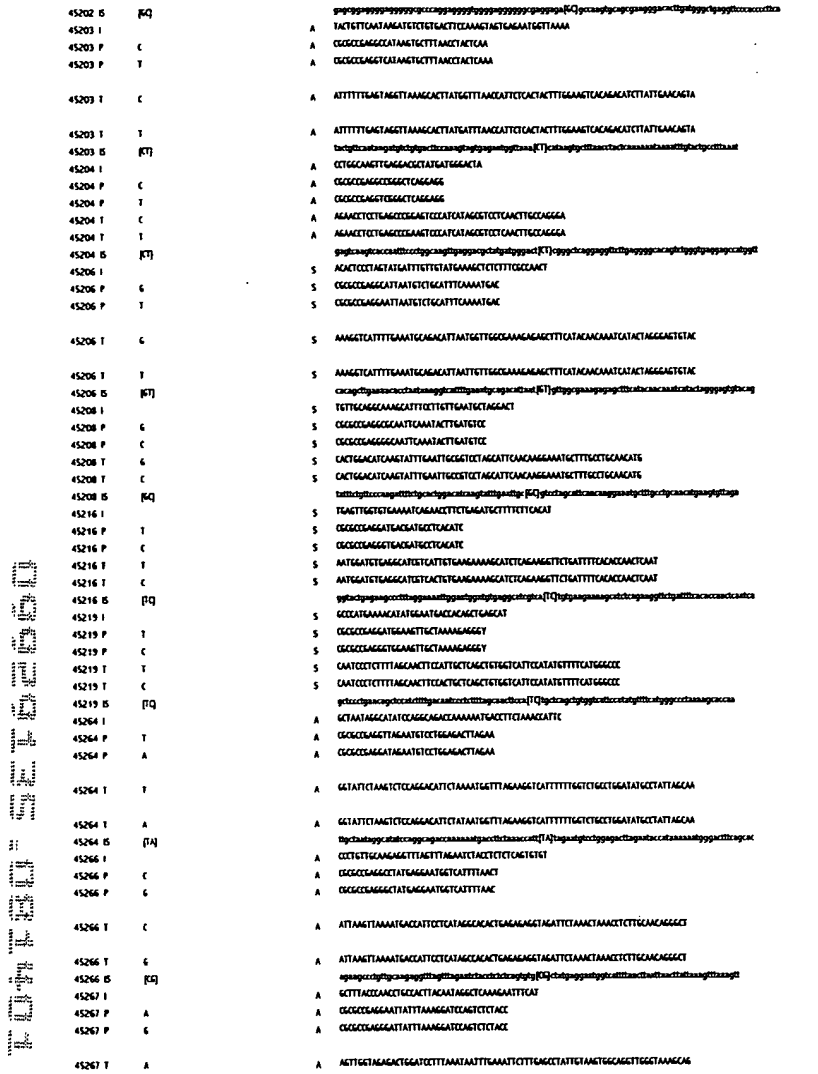


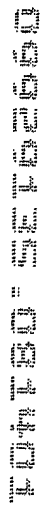
FIGURE 129F

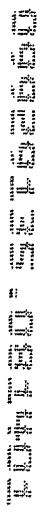


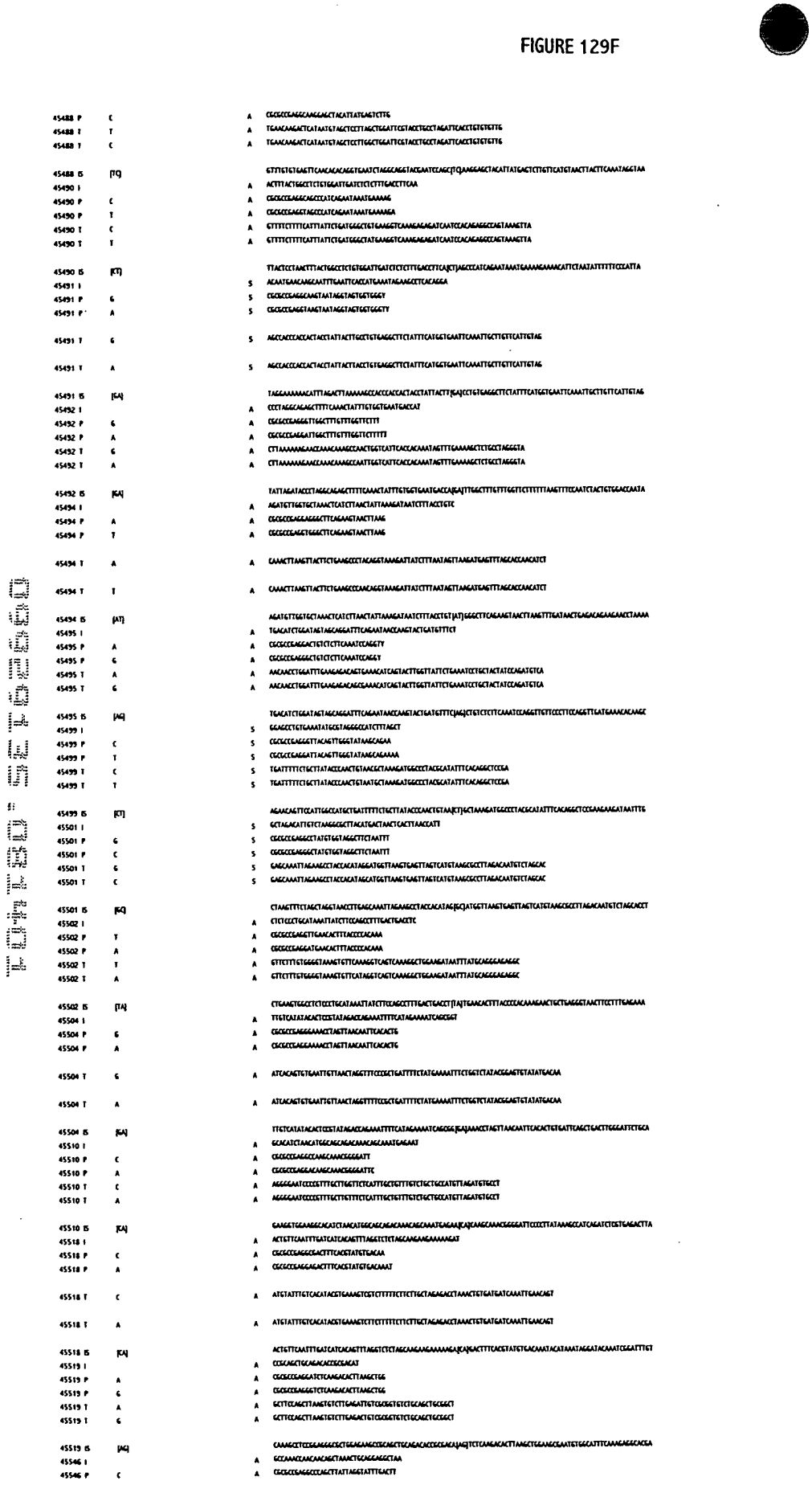


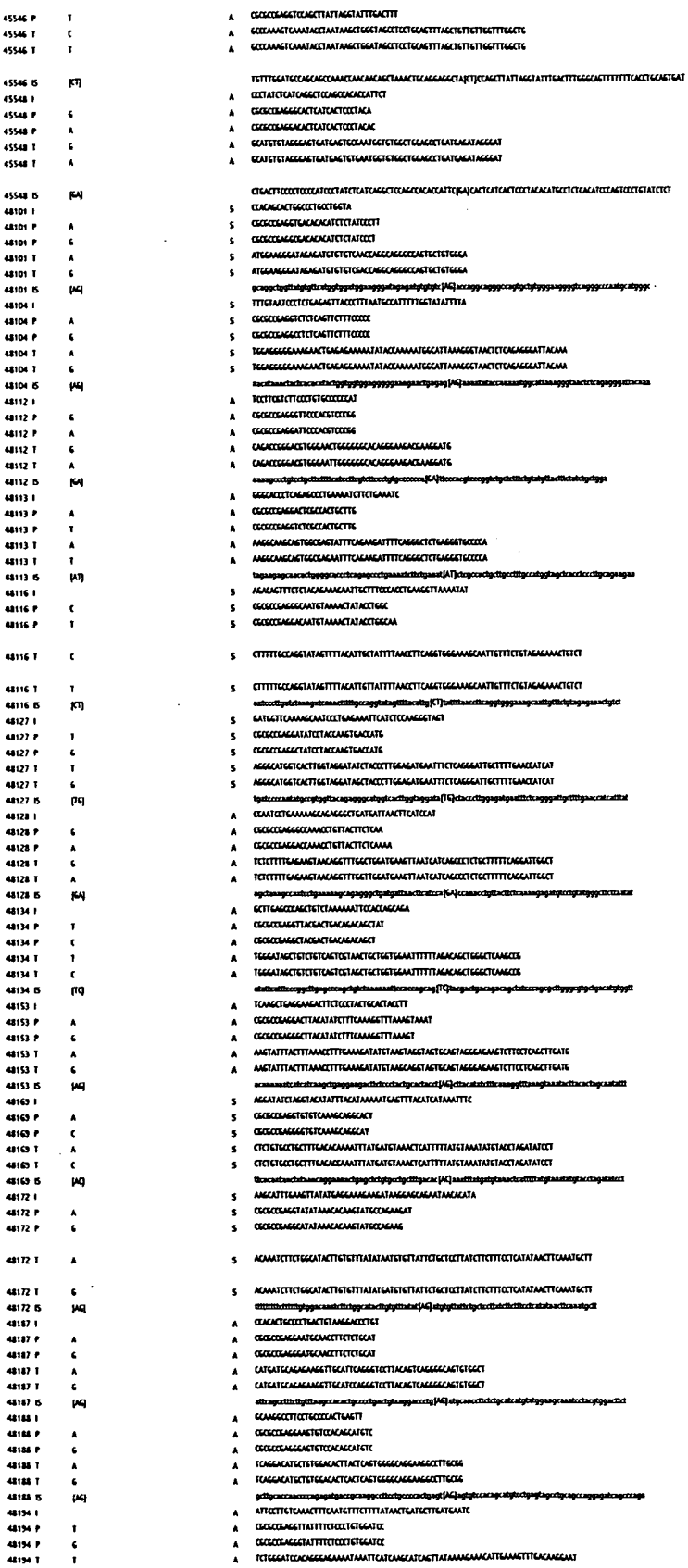


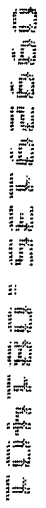












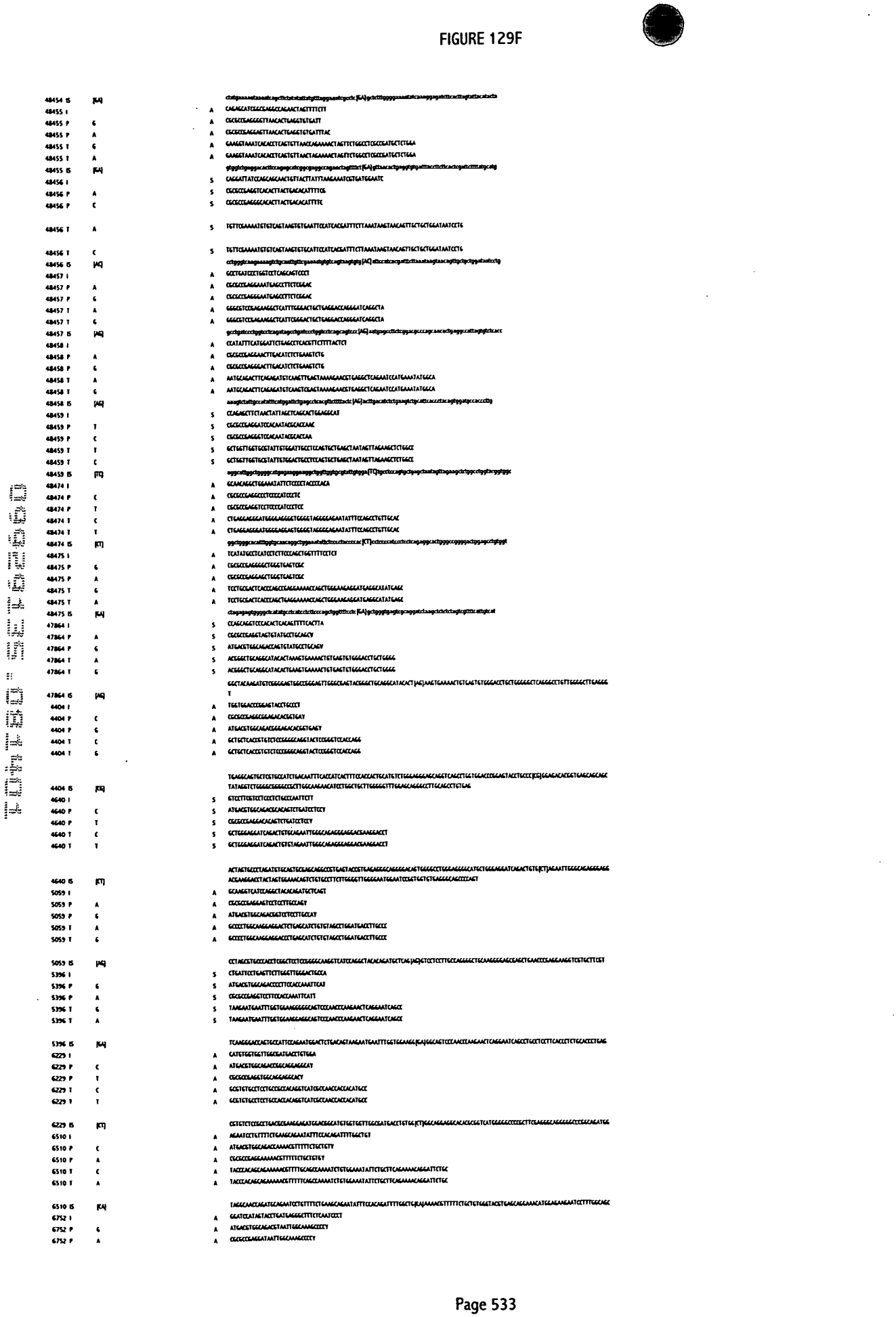
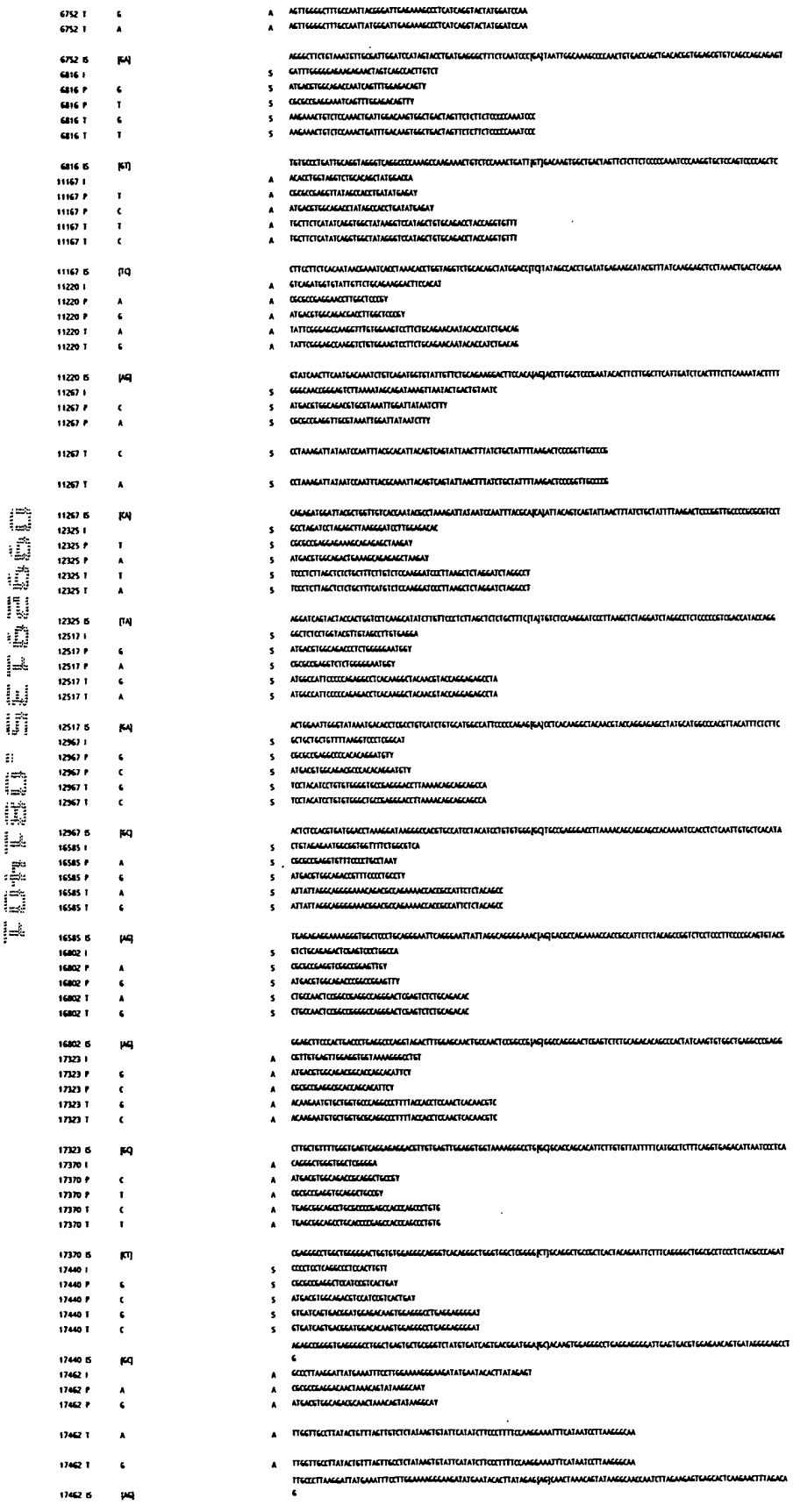
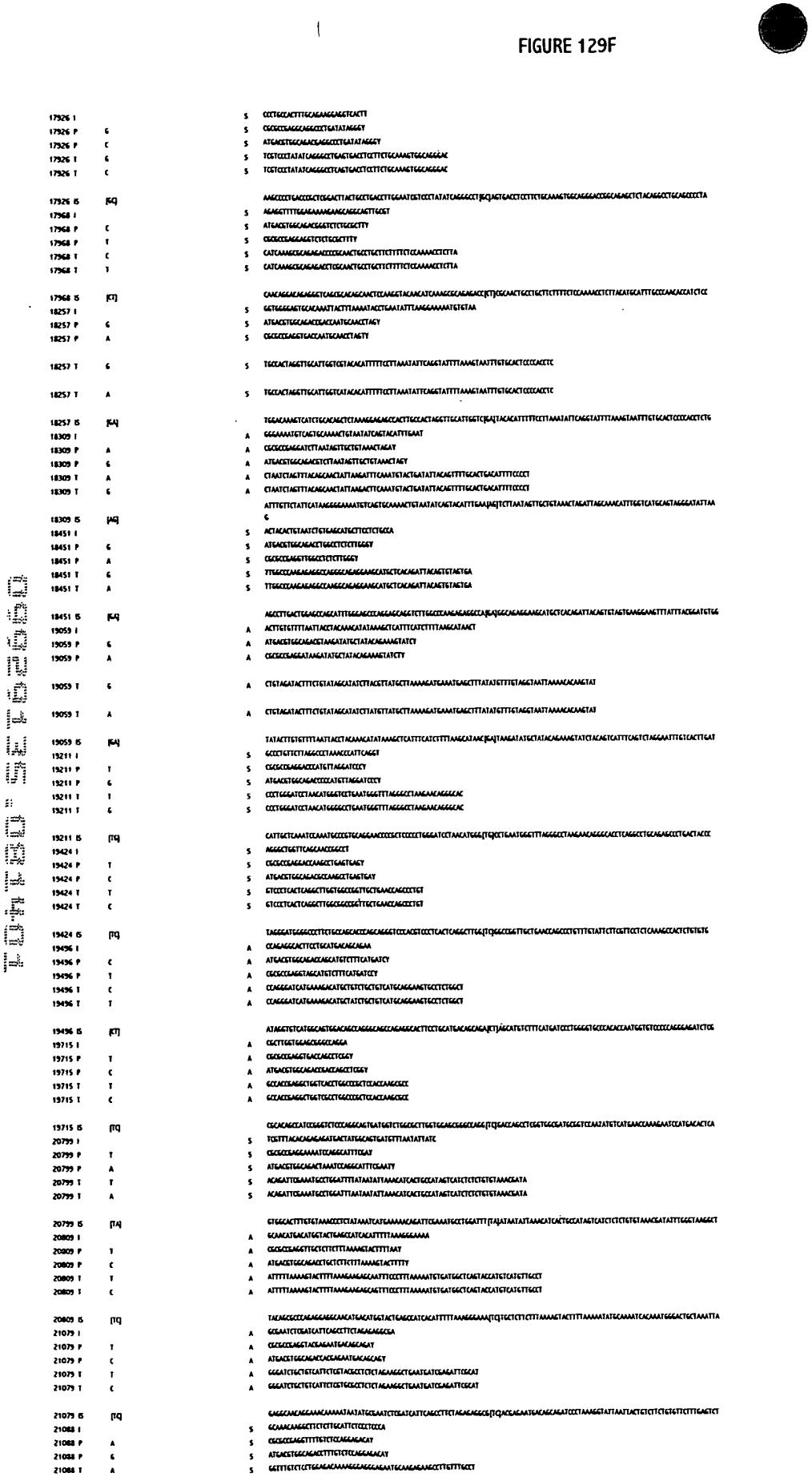


FIGURE 129F





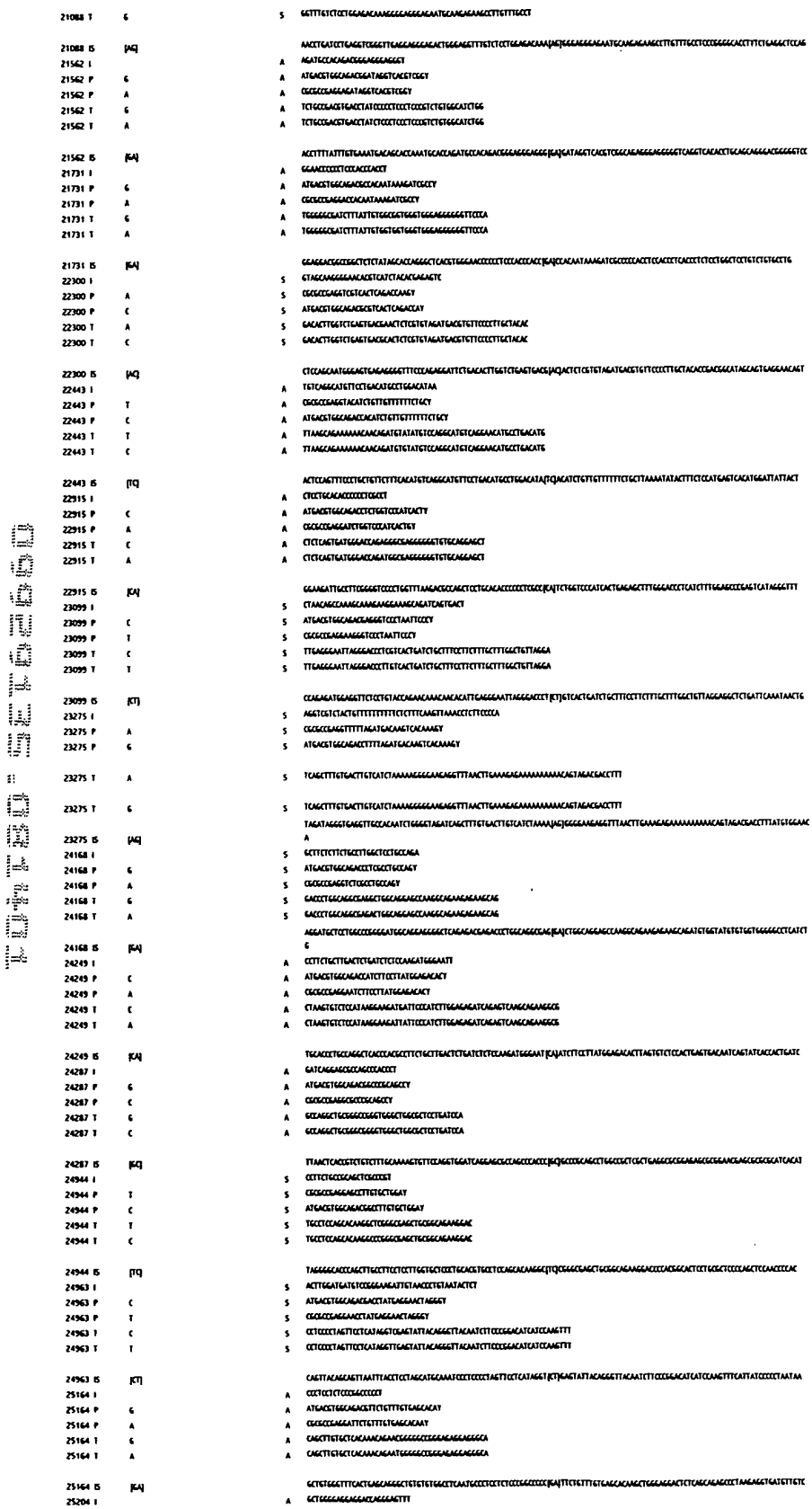
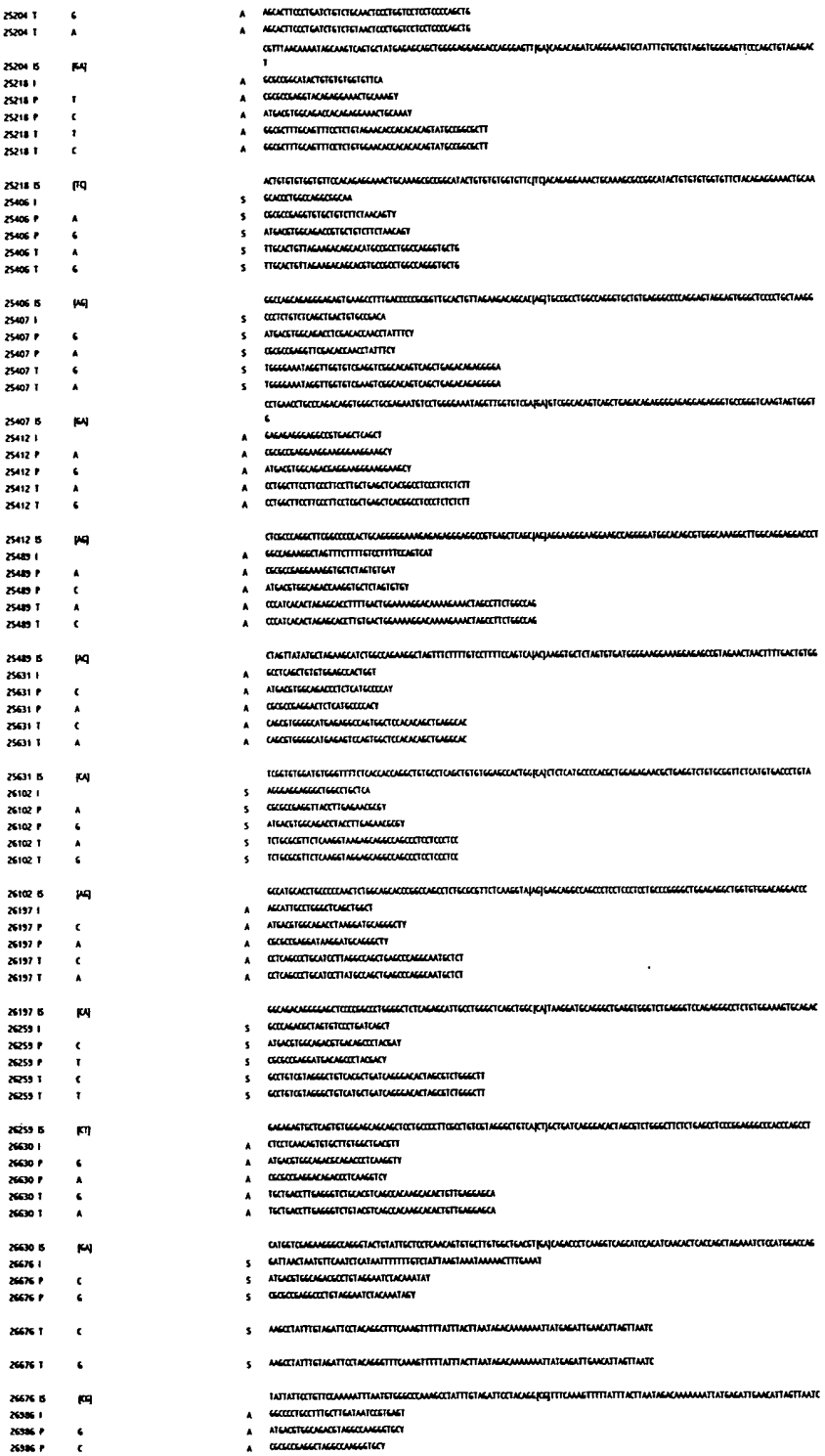


FIGURE 129F







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27343 T   C    S  TTTCAAGAGGGAAGCACCACGTTGTGGCTGCCCCTATCTGTCCCAGGAG
27343 T   T    S  TTTCAAGAGGGAAGCACCATGTTGTGGCTGCCCCTATCTGTCCCAGGAG

27343 IS  (CT)   TTTTCAGTCCACATGCTGCAGAGGGAGTTCTAGGATTCTCTCTTTGAAGAGGGAAGCACCAJCTJGTTGTGGCTGCCCCTATCTGTCCCAGGAGGGAATTTCATCAGTTCTTGGGGCACTTTCCCAG
27350 I         A  CACAGACAGAAAGGGTTTCATGGCATCTGGCT
27350 P   C     A  CGCGCTCAGGCCAGAGCAGTCAGGCT
27350 P   G     A  ATGACGTGGCAGACGCAGACAGTGAGGCY
27350 T   C     A  AGCTGCTCACTGCTCTGGGCAGATGCCATGAAACCCCTCTCTCTGTGTG
27350 T   G     A  AGCTGCTCACTGCTCTGCGCAGATGCCATGAAACCCCTCTCTCTGTGTG

27350 IS  (CG)   CCCCATTCTCGCTCCCCAGCTCAGAACCACACAGAGAGAAGGGGTTTCATGGCATCTGGCJCQCAGAGCAGTGAGGCAGCTTGTCCTCTTGAGAGCTGTAGAGCCGGGCAGGCGGGCCTTATA
27589 I         S  GGCCCCAGAGTCAAAGTTTGCTCATAGAGCATAATTT
27589 P   T     S  CGCGCCCAGGATCCTGGTAGCTTGTCCY
27589 P   G     S  ATGACGTGGCAGACCTCCTGGTAGCTTGTCCY
27589 T   T     S  AGGAGGACAAGCTACCAGGATAATTATGCTCTATGAGGCAAACTTTGACTCTGGGGCCTG
27589 T   G     S  AGGAGGACAAGCTACCAGGAGAATTATGCTCTATGAGGCAAACTTTGACTCTGGGGCCTG

27589 IS  (TG)   TCCCACTCAGAATCATGTCTCTCTCTCAACCACCAGTGTCAGGAGGACAAGCTACCAGGAJTGJAATTATGCTCTATGAGGCAAACTTTGACTCTGGGGCCTGGAAACCCAGAAGCCATTGATT
27759 I         S  CCCCATAGCGTGTCCGGCCTGTTT
27759 P   T     S  CGCGCCCAGGATGTCTGGTTATGCTGCY
27759 P   C     S  ATGACGTGGCAGACGTGTCTGGTTATGCTGCY
27759 T   T     S  CAGAGCAGCATAACCAGACATAACAGGCCGGACACGCTATGGGGGC
27759 T   C     S  CAGAGCAGCATAACCAGACACAACAGGCCGGACACGCTATGGGGGC

27759 IS  (TC)   AGGCTGGGAGCAAATGGAGAAGCAGGGAGAAATGGCTAGACAGAGCAGCATAACAGACAJTCJAACAGACCGGACACGCTATGGGGGCAGAGGGGAGCTACAGCAGGTCAGAGCTGCTGG
                 AG
27811 I         A  CCTCTTAACTTCCAGGCAATCTTCAGAGAACTGGACTAGTGT
27811 P   G     A  ATGACGTGGCAGACGACAGACCCAACCCAY
27811 P   A     A  CGCGCCCAGGAACAGACCCAACCCAY
27811 T   G     A  GTTGTGGGTTGGGTCTGTCCACTAGTCCAGTTCTCTGAAGATTGCCTGGAAGTTAAGAGGTG
27811 T   A     A  GTTGTGGGTTGGGTCTGTTCACTAGTCCAGTTCTCTGAAGATTGCCTGGAAGTTAAGAGGTG

27811 IS  (GA)   GGGGCTCTAAAAAGAACCACCTCTTAACTTCCAGGCAATCTTCAGAGAACTGGACTAGTGJGAJACAGACCCAACCCACAACTGGAAGTCATGCATGTACAGACCTGCCTAATGACCATGGTCT
27815 I         S  CTGTGGTATGCTTGGCTCAGTGGGAGGACT
27815 P   T     S  CGCGCCCAGGAGGCTGGAGTTGGGY
27815 P   C     S  ATGACGTGGCAGACGGGCTGGAGTTGGGY
27815 T   T     S  CCCACCCAACTCCAGCCTCTCTCCCCACTGAGCCAAGCATACCACAGTG
27815 T   C     S  CCCACCCAACTCCAGCCCCTCCTCCCACTGAGCCAAGCATACCACAGTG

27815 IS  (TC)   ATACAGACCCAGAGTTATCTGATTCCAGTGCCTCATGTACTTTCCCACCCAACTCCAGCCCJTCJCTCCTCCCCACTGAGCCAAGCATACCACAGTGGGGAAAAGGCAAAGGATACAGTAAAGTCCT
27903 I         S  CACCGTCCATATCATCAAATGAGCTCACACACACAGTAA
27903 P   A     S  CGCGCCCAGGTGCACATGCACACGY
27903 P   G     S  ATGACGTGGCAGACGCACATGCACACGY
27903 T   A     S  TGCACGTGTGCATGTGCATACGTGTGTGTGAGCTCATTTGATGATATGGACGGTGGT
27903 T   G     S  TGCACGTGTGCATGTGCGTACGTGTGTGTGAGCTCATTTGATGATATGGACGGTGGT

27903 IS  (AG)   TCCATCTCGATTTGGGGTCAAGCTTGTTGTGTGTGTGTGTGTGCACGTGTGCATGTGCJAGTJACGTGTGTGTGAGCTCATTTGATGATATGGACGGTGGTCAGCTAAAGGGACCTGTGTTG
27983 I         A  GGTGGCACTGAGCCACTCGTCCTCTT
27983 P   G     A  ATGACGTGGCAGACGTGACCTGATGCTCCTY
27983 P   C     A  CGCGCCCAGGCTGACCTGATGCTCCTY
27983 T   G     A  TACCAGGAGCATCAGGTCACAGAGGAGCAGTGGCTCAGTGCCACCGT
27983 T   C     A  TACCAGGAGCATCAGGTCACAGAGGAGCAGTGGCTCAGTGCCACCGT

27983 IS  (GC)   GCACCTGATGGGGTCTGGGGCCTCTGCAGGGGGCAGGTGGCACTGAGCCACTCGTCCTCTCJGCJTGACCTGATGCTCCTGCTAGGATCAGTGGCTGGGGACAGGACTTGGGCAGTGGGCATCAG
28115 I         S  GGTTTGTTTGTTTTTAAATGACAGTTTCTAAGGTAAGTGCATAAAAACTC
28115 P   A     S  CGCGCCGAGGTATTTAAAATACAGCAAAACAAAAAGTY
28115 P   T     S  ATGACGTGGCAGACAATTTAAAATACAGCAAAACAAAAAGT

28115 T   A     S  ATTTACTTTTTGTTTTGCTGTATTTTAAATAAGTTTTTATGCACTTACCTTAGAAACTGTCATTTAAAAACAAACAAACCTC

28115 T   T     S  ATTTACTTTTTGTTTTGCTGTATTTTAAATTAGTTTTTATGCACTTACCTTAGAAACTGTCATTTAAAAACAAACAAACCTC

28115 IS  (AT)   CTGTATACCAGGCTCTCTTGTCTGAGACATATTTACTTTTTGTTTTGCTGTATTTTAAATJATJAGTTTTTATGCACTTACCTTAGAAACTGTCATTTAAAAACAAACAAACCTCTGTCTTTTC
28157 I         S  CCGTGGAAAGACCATTCGGGTGGAGATGGA
28157 P   G     S  ATGACGTGGCAGACCACCACTTTGCTTATCCTY
28157 P   A     S  CGCGCCGAGGTACCACTTTGCTTATCCTY
28157 T   G     S  GGAAGAGGATAAGCAAAAGTGGTGCCATCTCCACCCGAATGGTCTTTCCACGGGC
28157 T   A     S  GGAAGAGGATAAGCAAAAGTGGTACCATCTCCACCCGAATGGTCTTTCCACGGGC

28157 IS  (GA)   TCTGGTAAATTGACCAACTGGACAGATTGGTCCAAGTGGAAGAGGATAAGCAAAAGTGGTJGAJCCATCTCCACCCGAATGGTCTTTCCACGGGCCTGCCCCTGCCCCTGCCCCCACCCAAAGT
34696 I         A  ACTGGTTACATAAATCACAGTCCATCTATTGTATGGAATACTATTACATCATTAATAA
34696 P   T     A  CGCGCCGAGGTGAATGAAGGGAAATACACTGY
34696 P   C     A  ATGACGTGGCAGACCGAATGAAGGGAAATACACTY

34696 T   T     A  ACTTCAGTGTATTTCCCTTCATTCATATTAATGATGTAATAGTATTCCATACAATAGATGGACTGTGATTTATGTAACCAGTCT

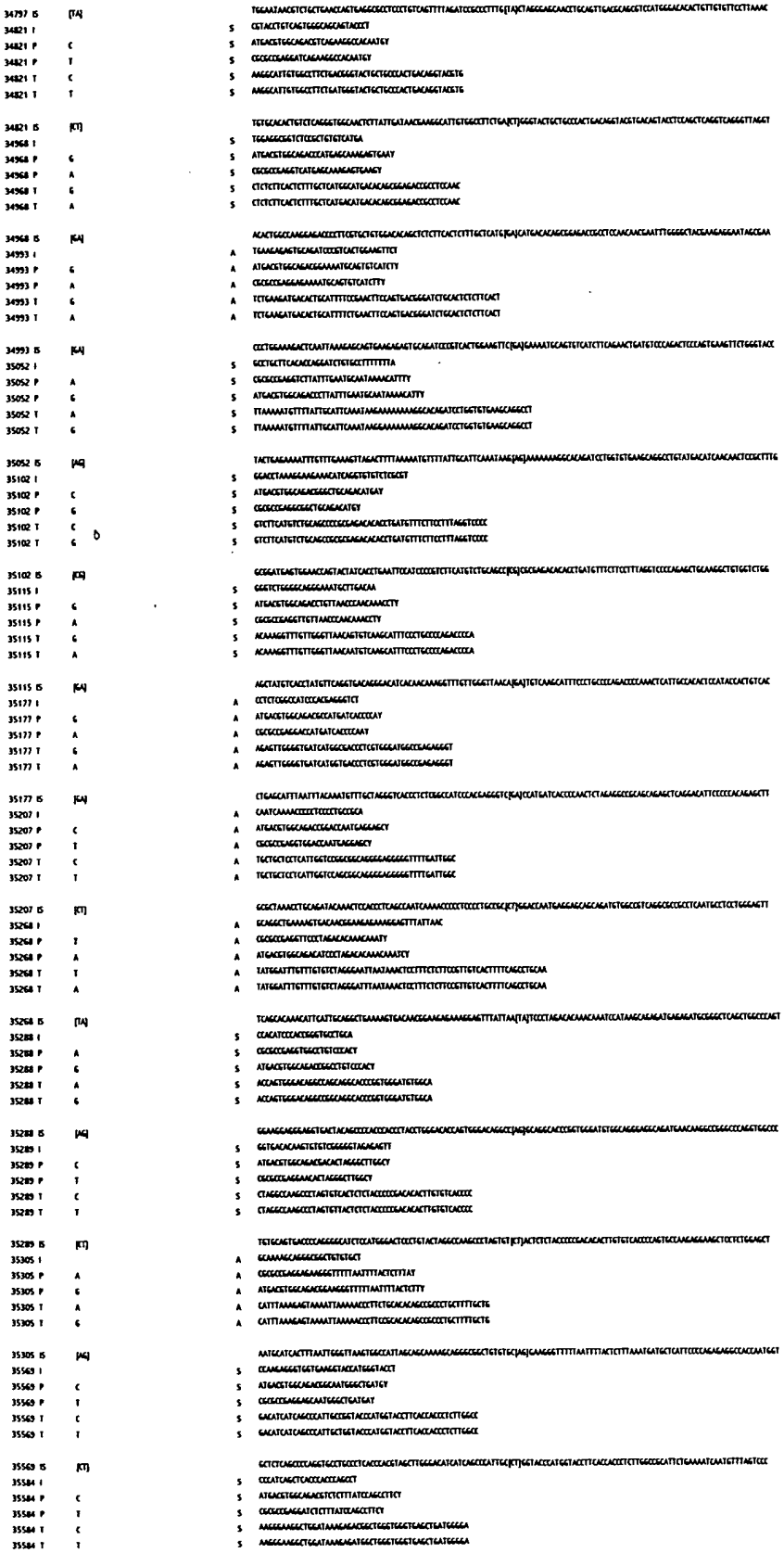
34696 T   C     A  ACTTCAGTGTATTTCCCTTCATTCGTATTAATGATGTAATAGTATTCCATACAATAGATGGACTGTGATTTATGTAACCAGTCT

34696 IS  (TC)   TAGACTGGTTACATAAATCACAGTCCATCTATTGTATGGAATACTATTACATCATTAATAJTCJAATGAAGGAAATACACTGAAGTAGGTAAGTGTCTATGATATCTAAGGGTGGGAAAAA
                 A
34720 I         A  GACTACACGCCTTCCTCCAGGGACATGAAAJ
34720 P   G     A  ATGACGTGGCAGACGAGAAGTCAGAGCCTGAY
34720 P   A     A  CGCGCCGAGGAAGAAGTCAGAGCCTGAY
34720 T   G     A  TTGCTCAGGCTCTGACTTCTCTTTCATGTCCCTGCAGGAAGGCGTGTAGTCTT
34720 T   A     A  TTGCTCAGGCTCTGACTTCTTTTTCATGTCCCTGCAGGAAGGCGTGTAGTCTT

34720 IS  (GA)   AAGGTCTTTCCAGGTATCATCTCCCATGAAGACTACACGCCTTCCTGCAGGGACATGAAAJGAJAGAAGTCAGAGCCTGAGCAAACGTCAGGGTTACAGAGAAAAGAGGAAAAAGAGGCCCTTTAA
34749 I         A  CGGGGCGGGGTCAGGGCT
34749 P   G     A  ATGACGTGGCAGACGTCGGGGCTGCAY
34749 P   A     A  CGCGCCGAGGATCGAGGCTGCAGY
34749 T   G     A  GGACCTGCAGCCCCCAACGCCCTCACCCGCCCCCCA
34749 T   A     A  GGACCTGCAGCCCCCGATGCCCTCACCCGCCCCCCA

34749 IS  (GA)   GTGATAGGCATAGAAGGCGAAGTGGTAGAGATAGAAGAACCTGCGGGGCGGGGTGAGGGCJGAJTCGGGGCTGCAGGTCCCACCCTGCCAGGCCCAGCCCCTGGGGTTCCCCCGTGGCGCAGCC
34797 I         A  GCCTCCCTGTCAGTTTTAGATCCGCCTTTGC
34797 P   T     A  CGCGCCGAGGTCTAGGGAGCAACCTGY
34797 P   A     A  ATGACGTGGCAGACACTAGGGAGCAACCTGT
34797 T   T     A  ACTGCAGGTTGCTCCCTAGACAAAGGCGGATCTAAAACTGACAGGGAGGCGC
34797 T   A     A  ACTGCAGGTTGCTCCCTAGTCAAAGGCGGATCTAAAACTGACAGGGAGGCGC
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Sequence Listing Page 538 of 538



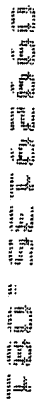


FIGURE 129F

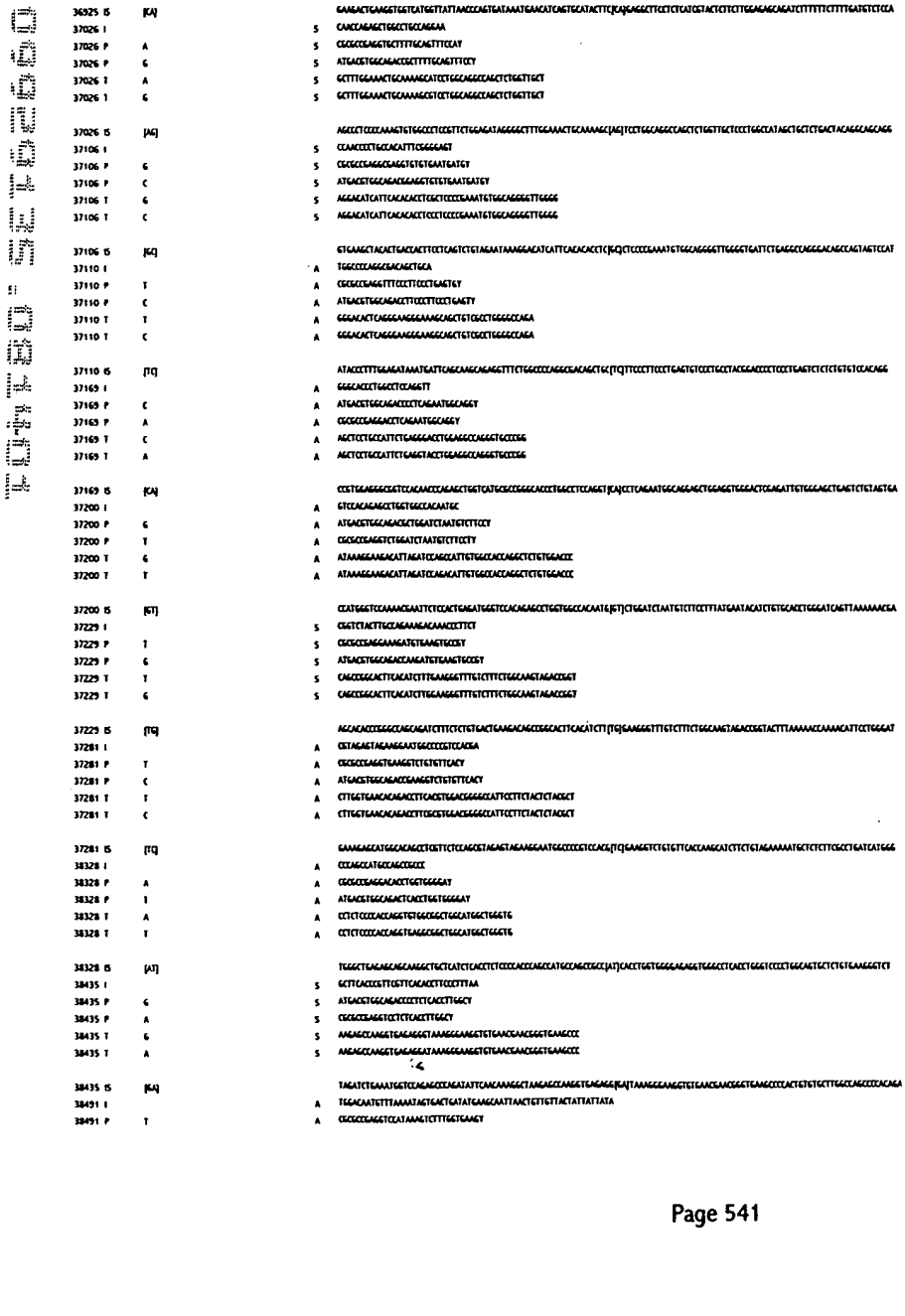


FIGURE 129F

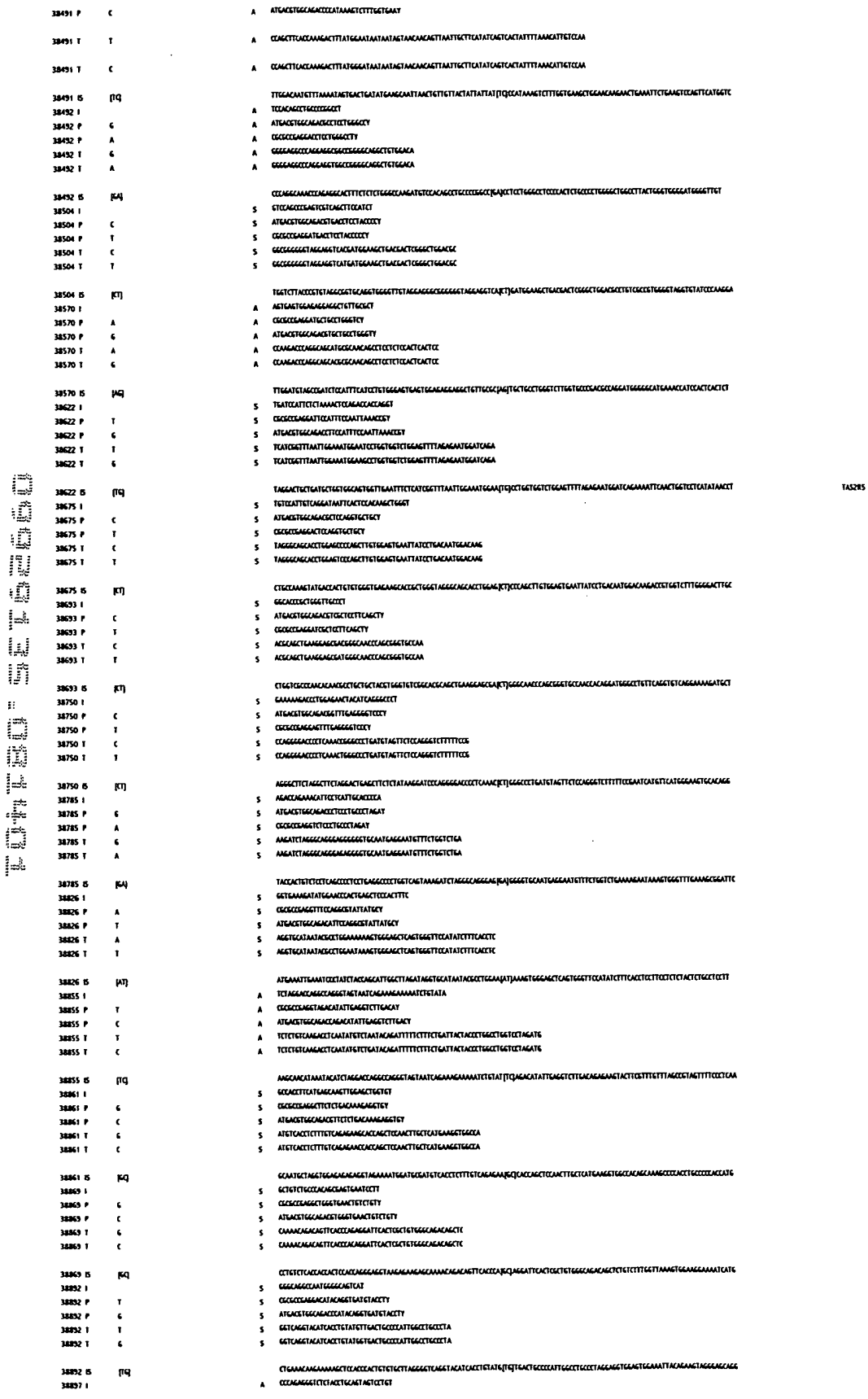


FIGURE 129F

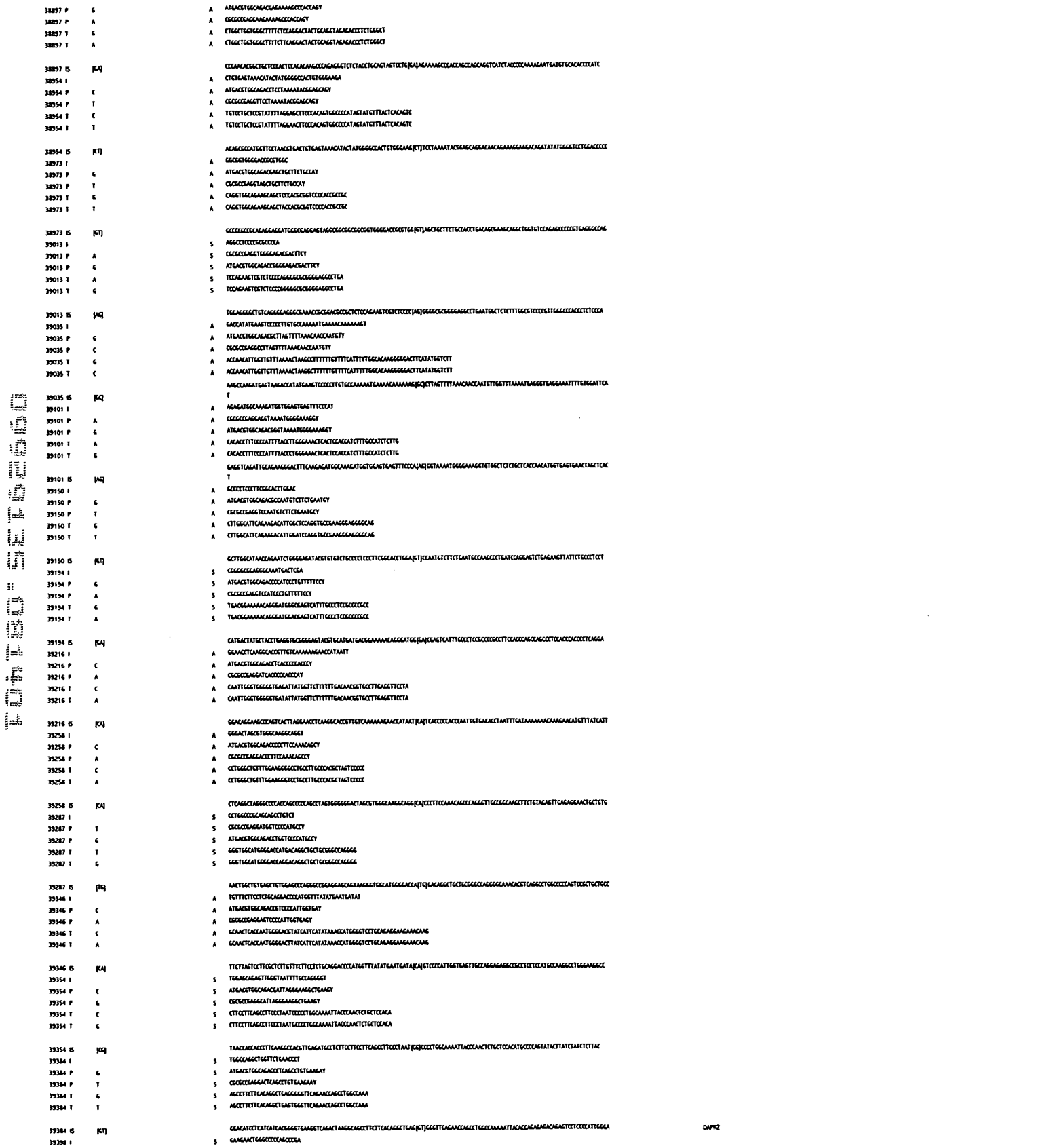
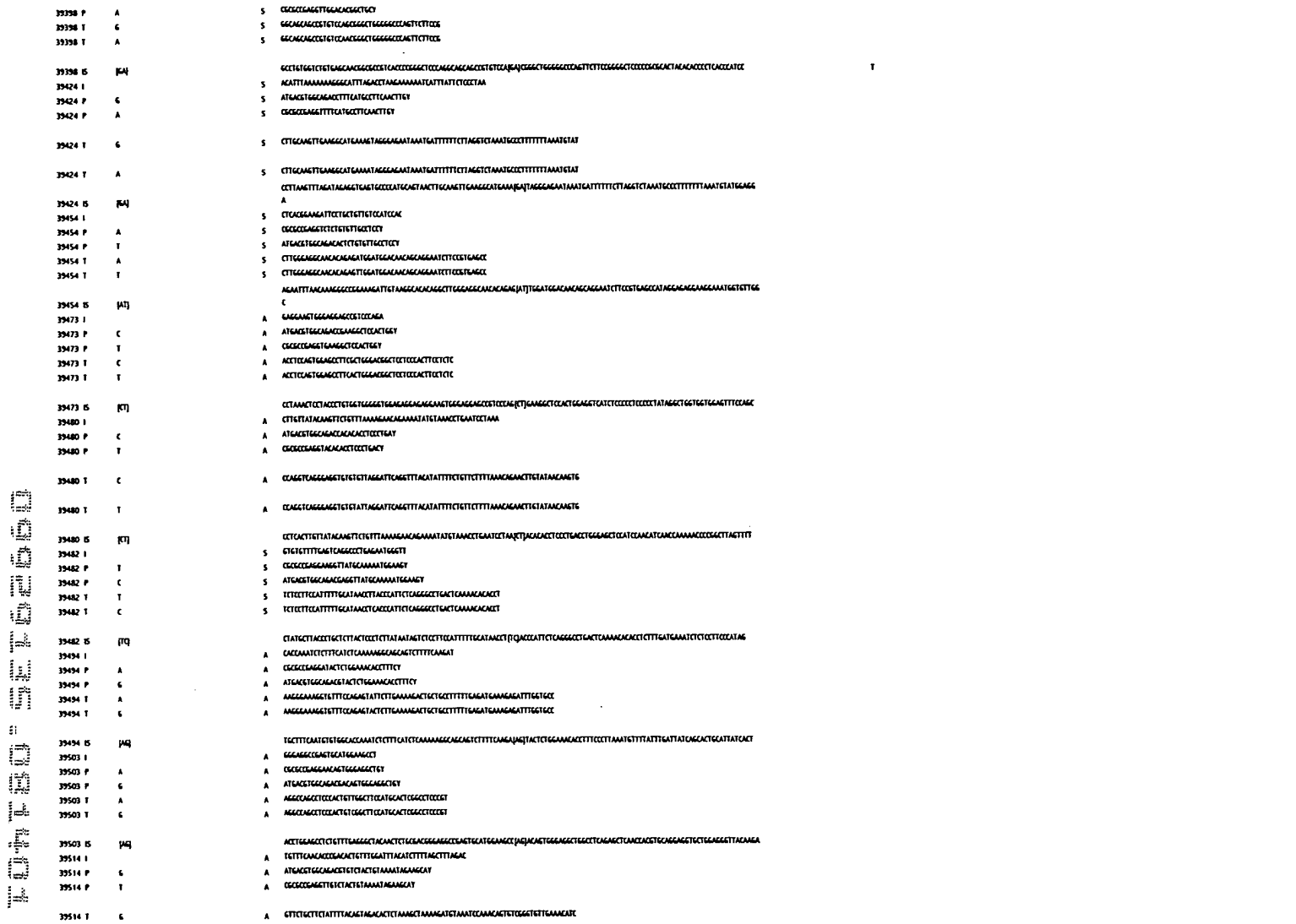
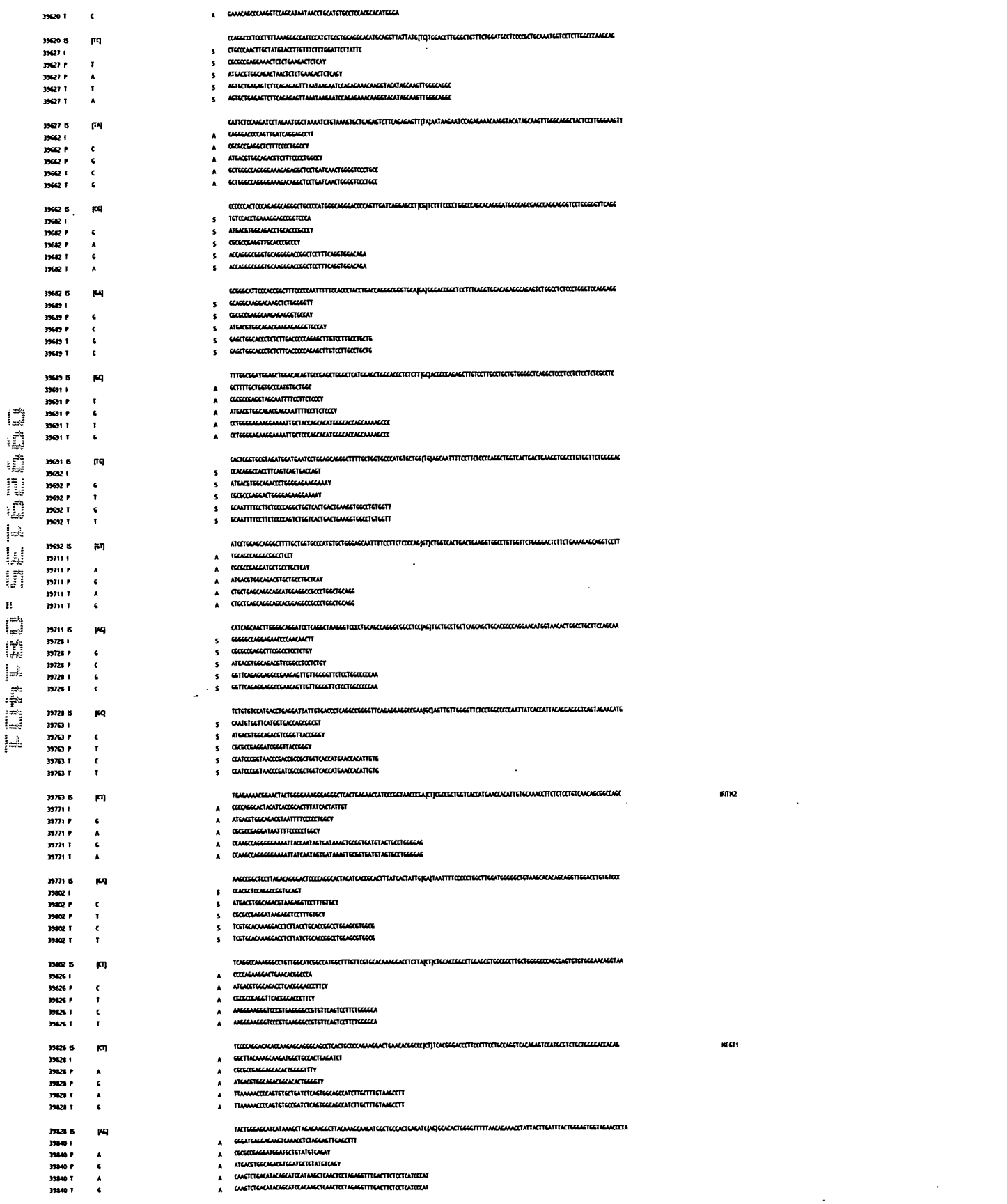
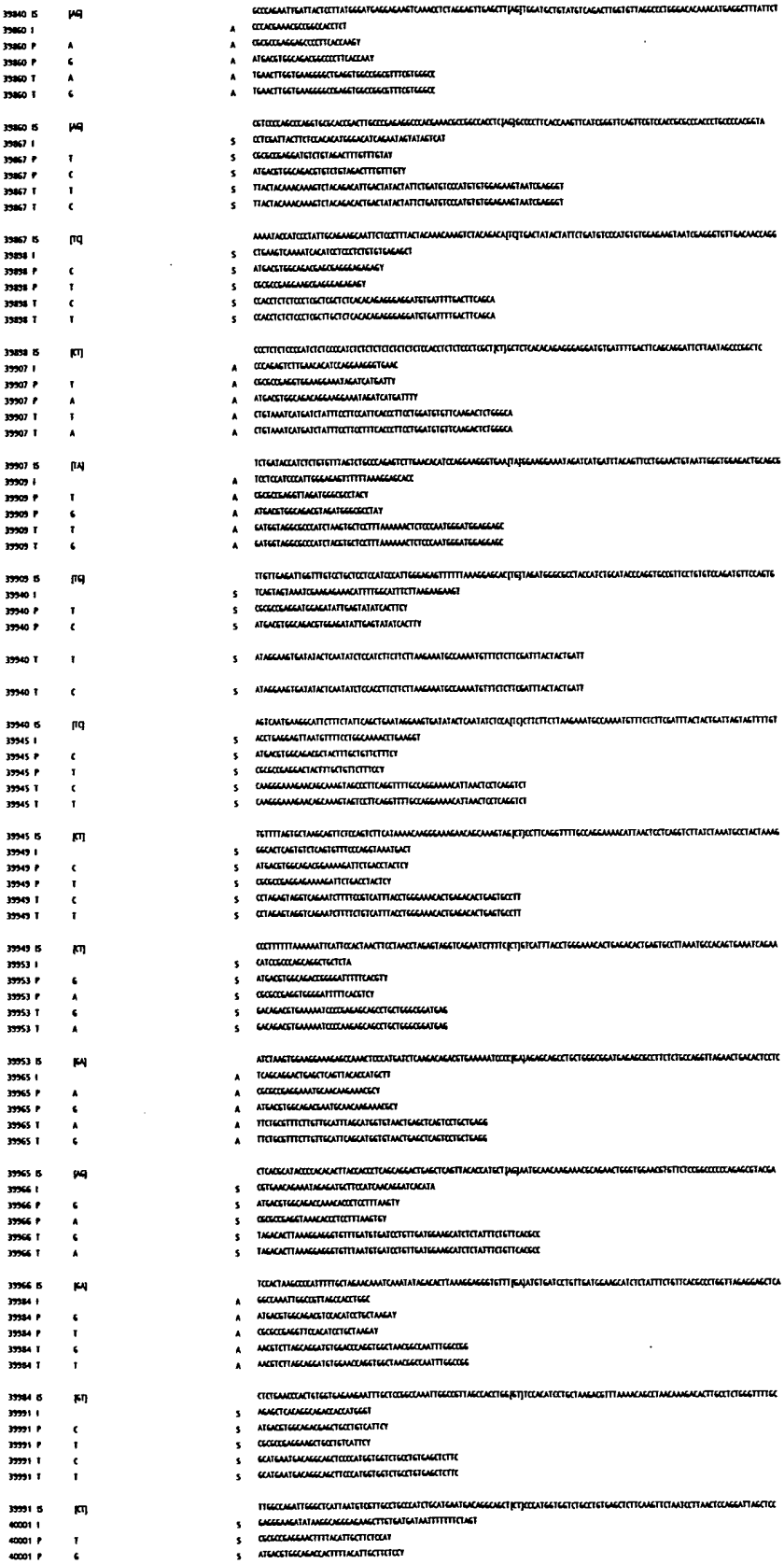


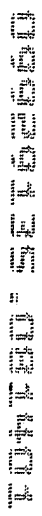
FIGURE 129F

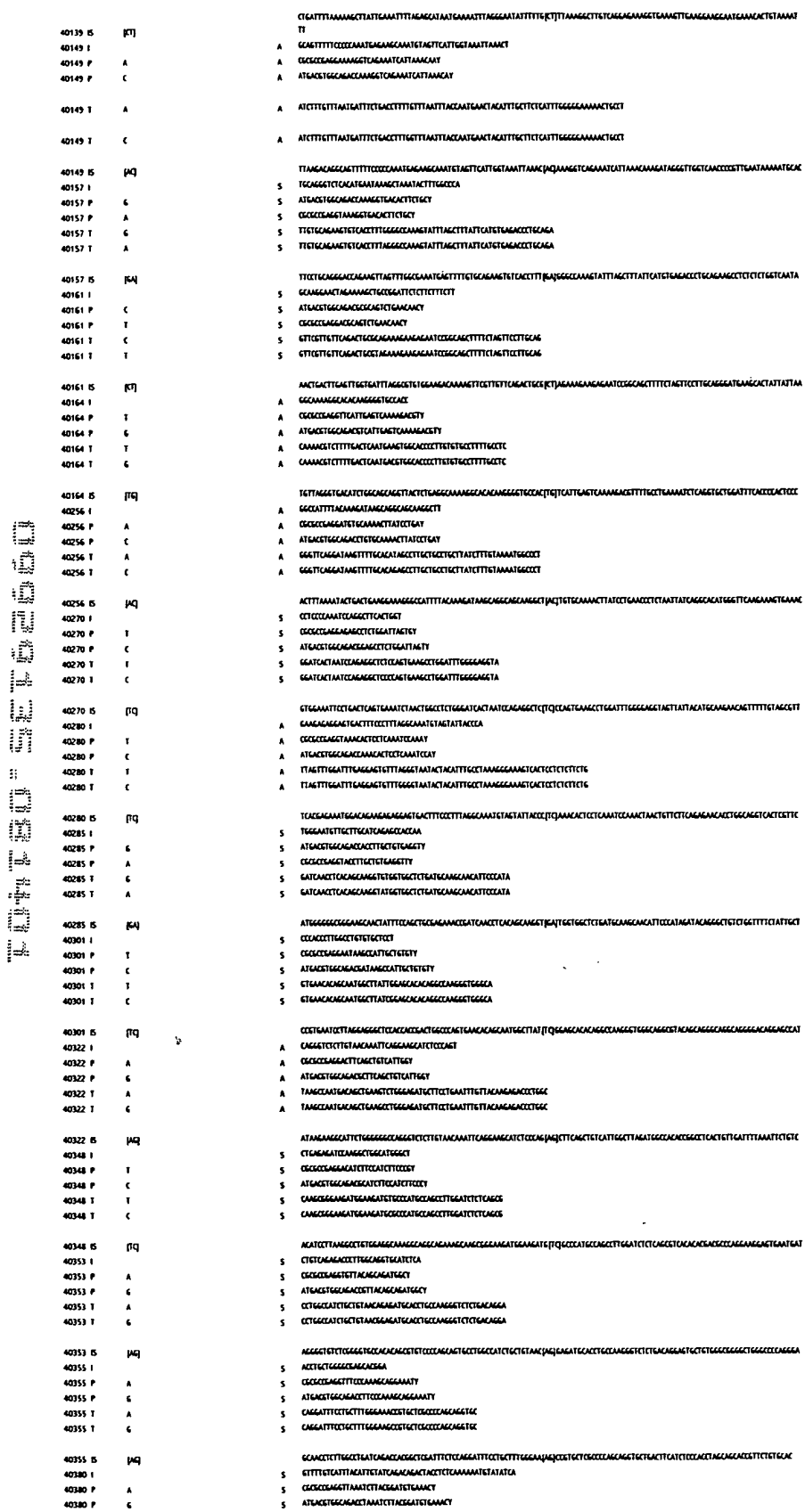






Replacement Sheet







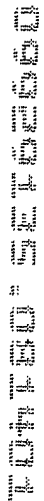


FIGURE 129F

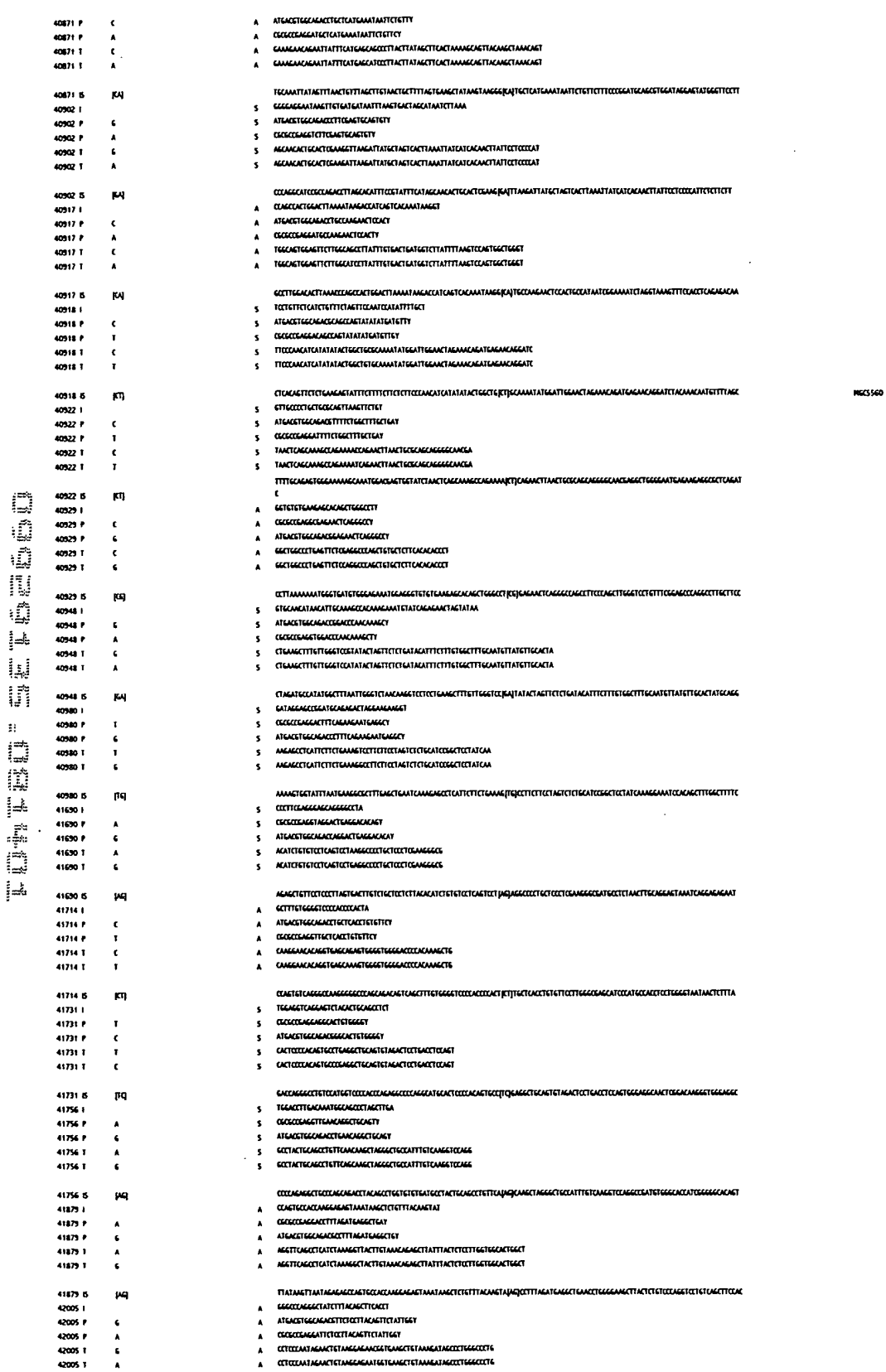
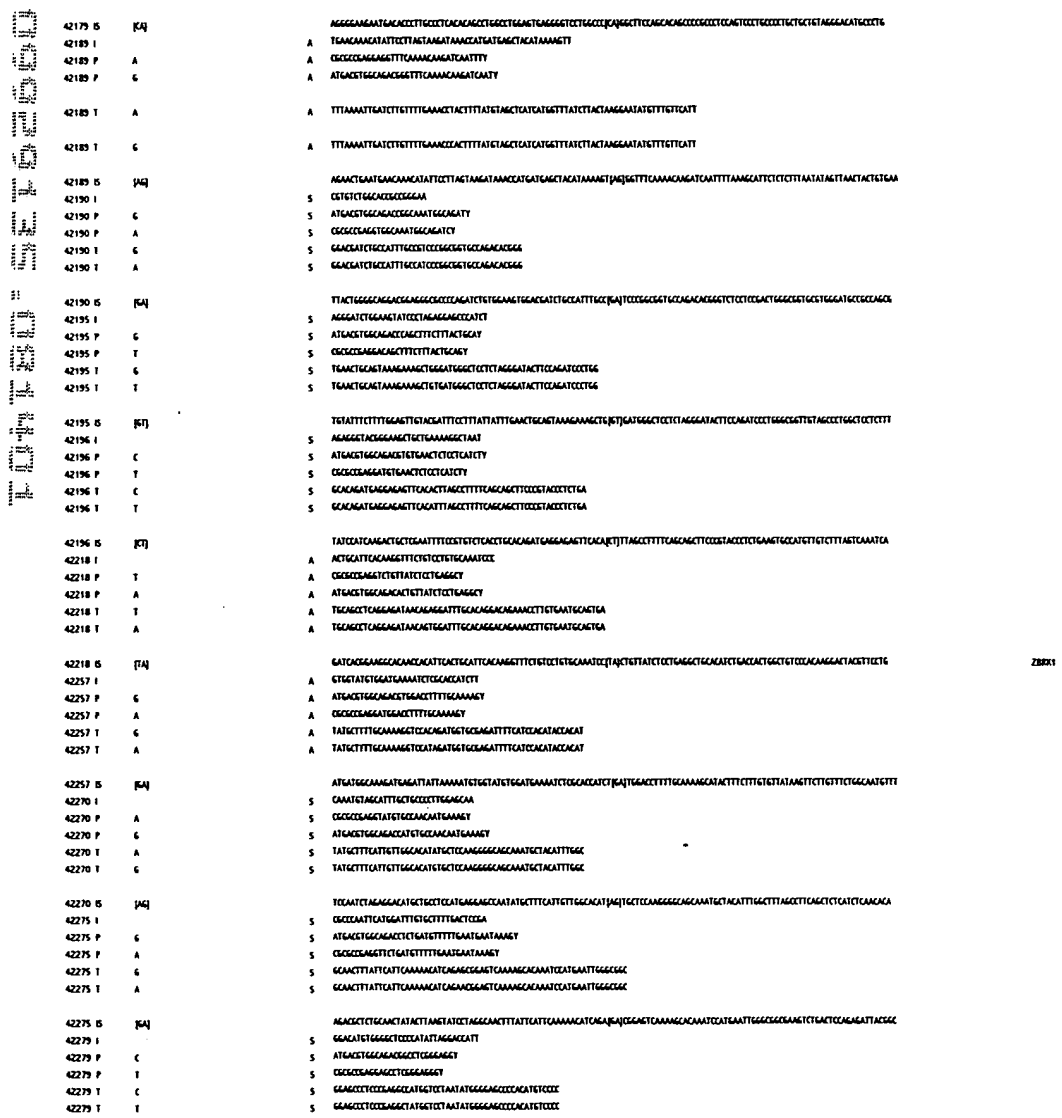
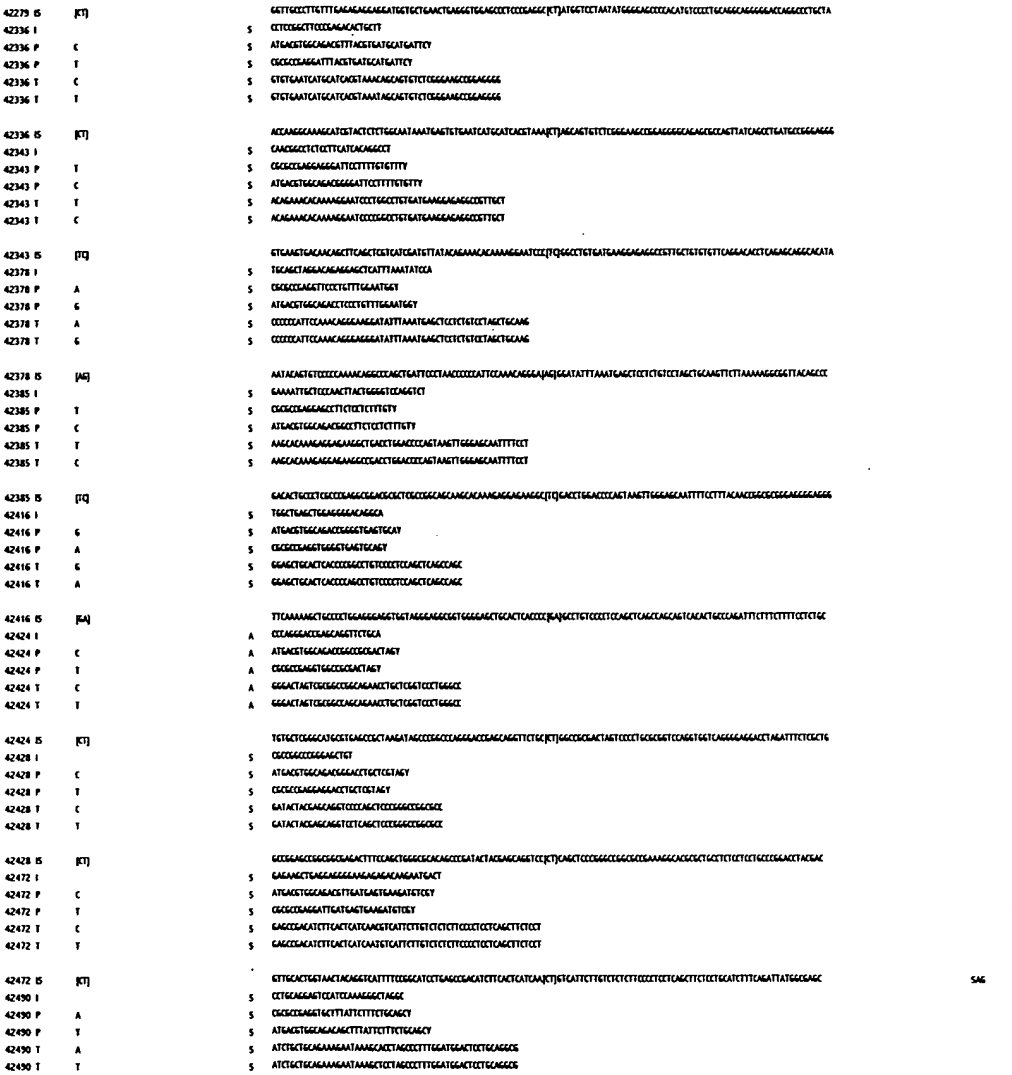
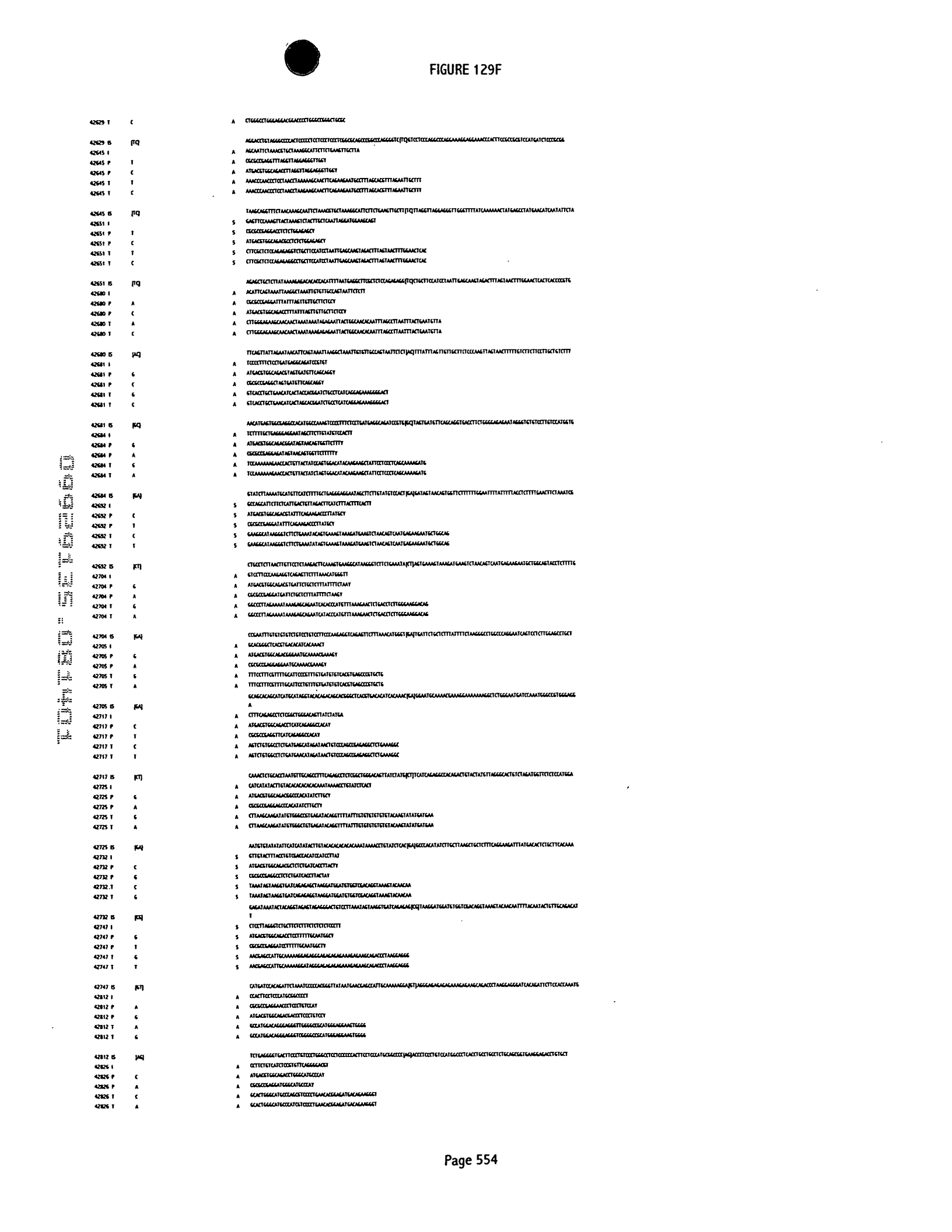
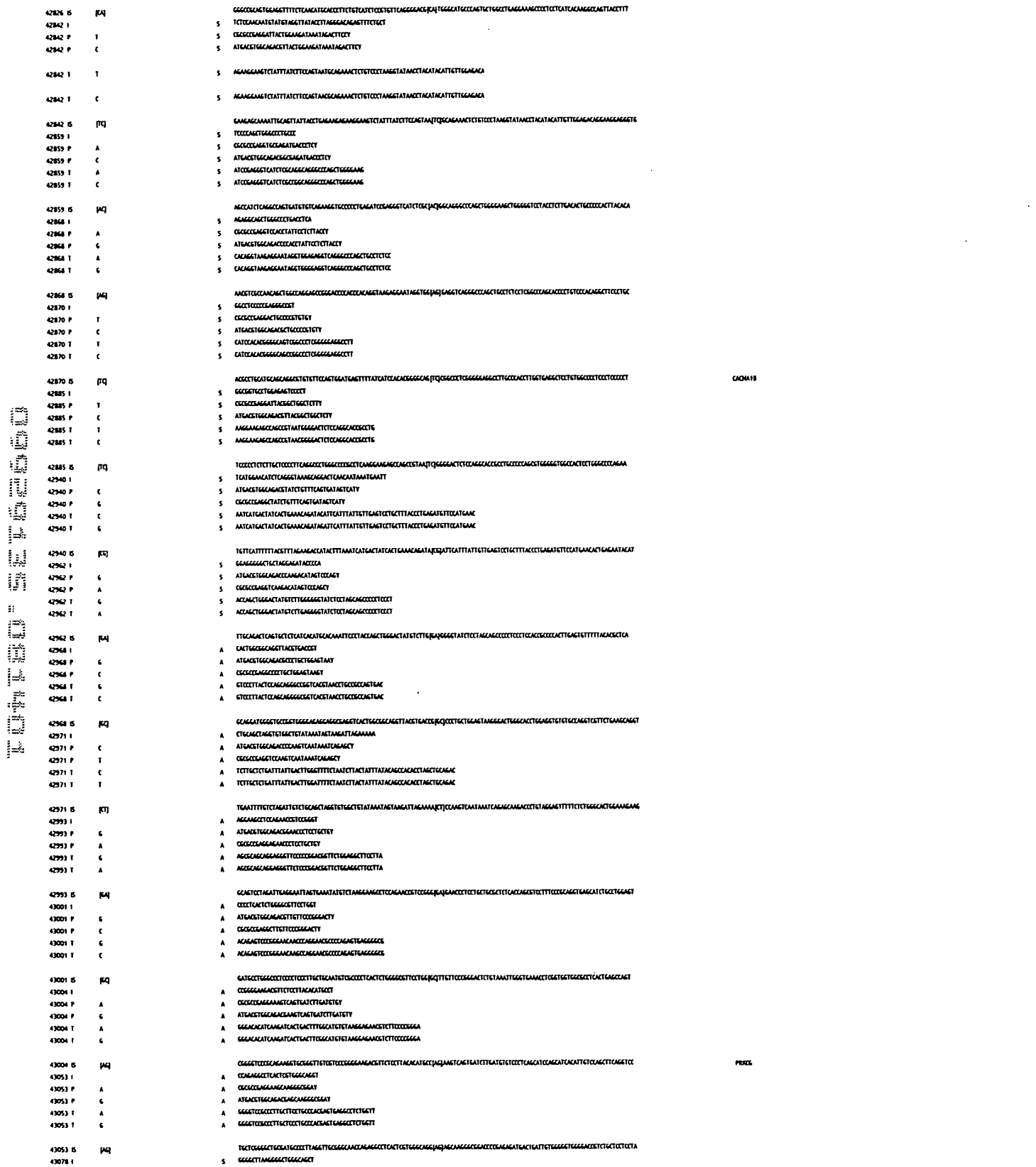


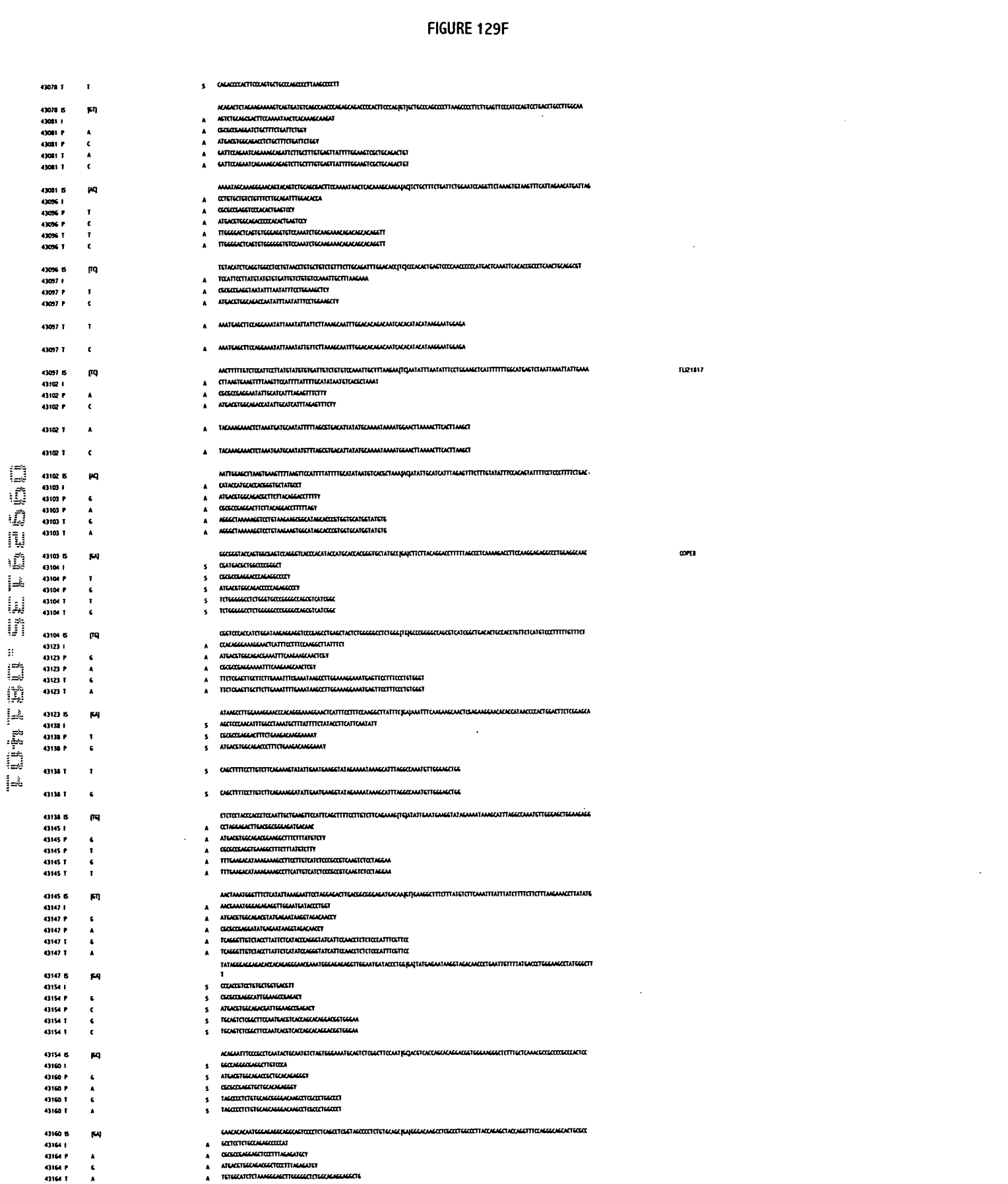
FIGURE 129F

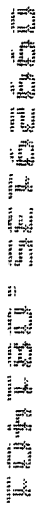








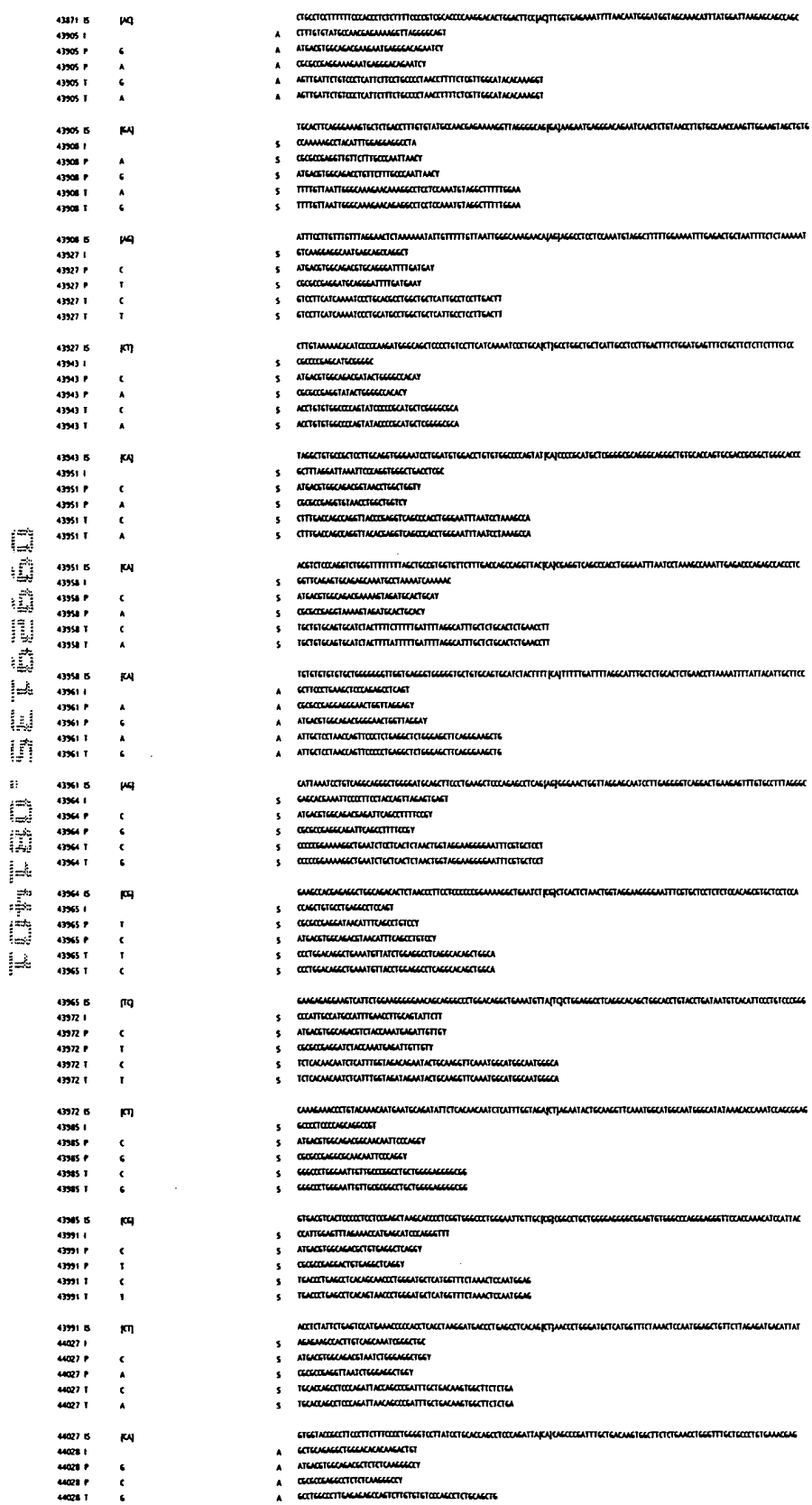


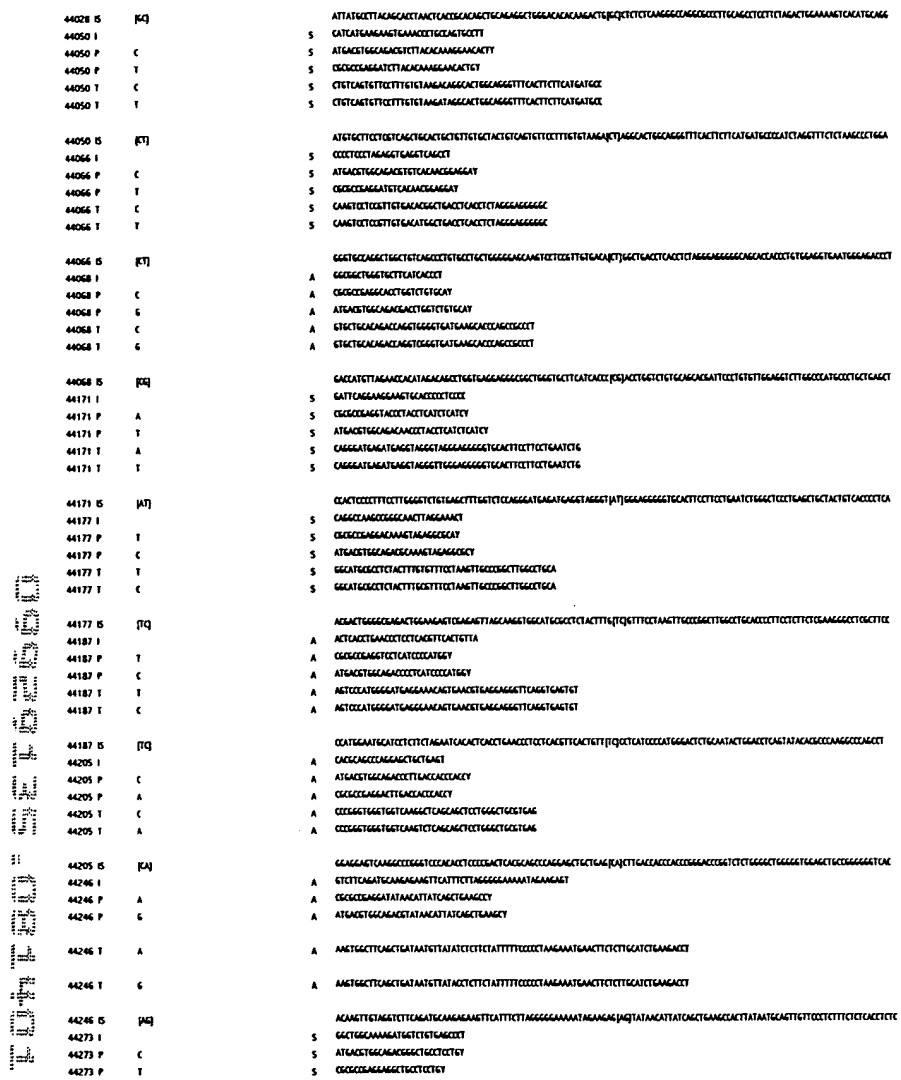


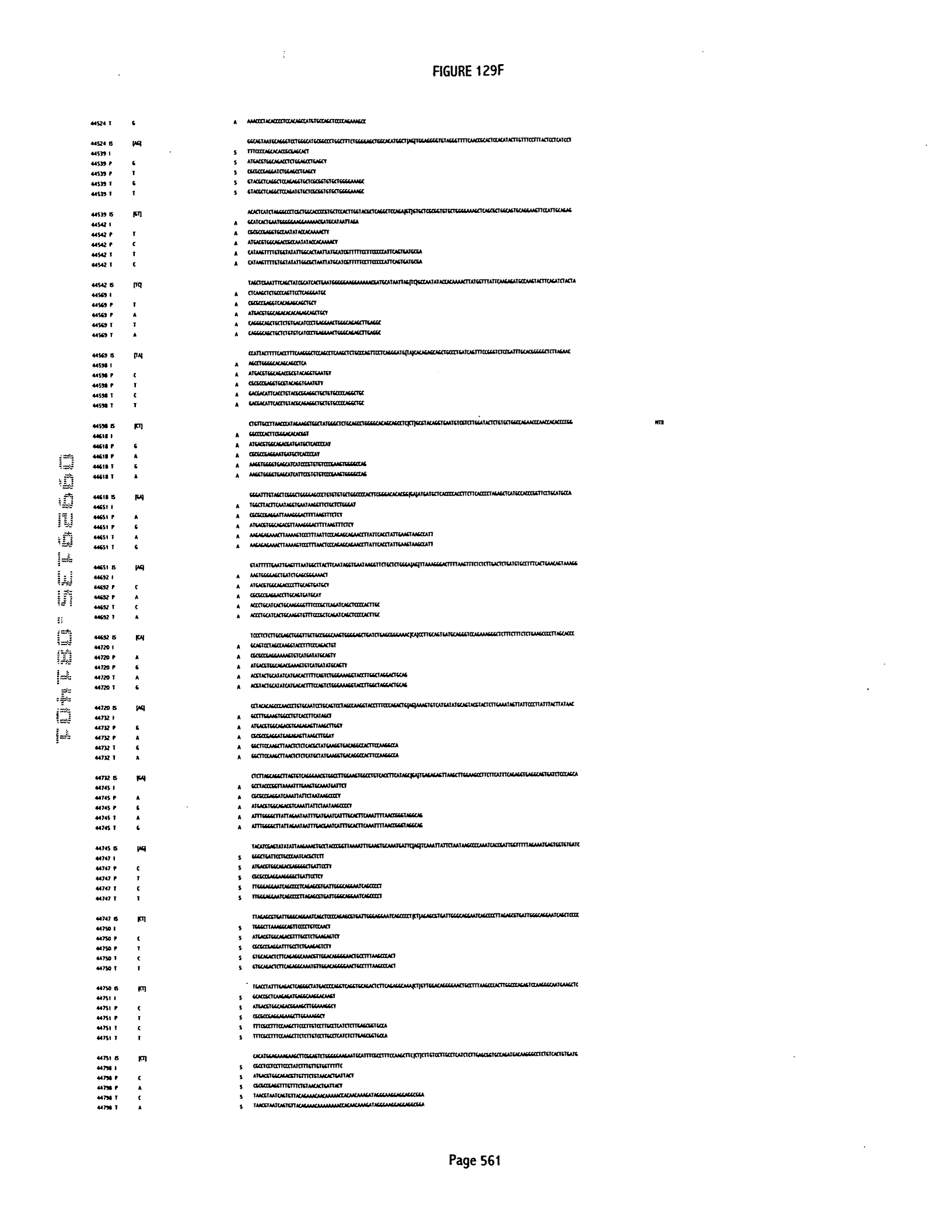


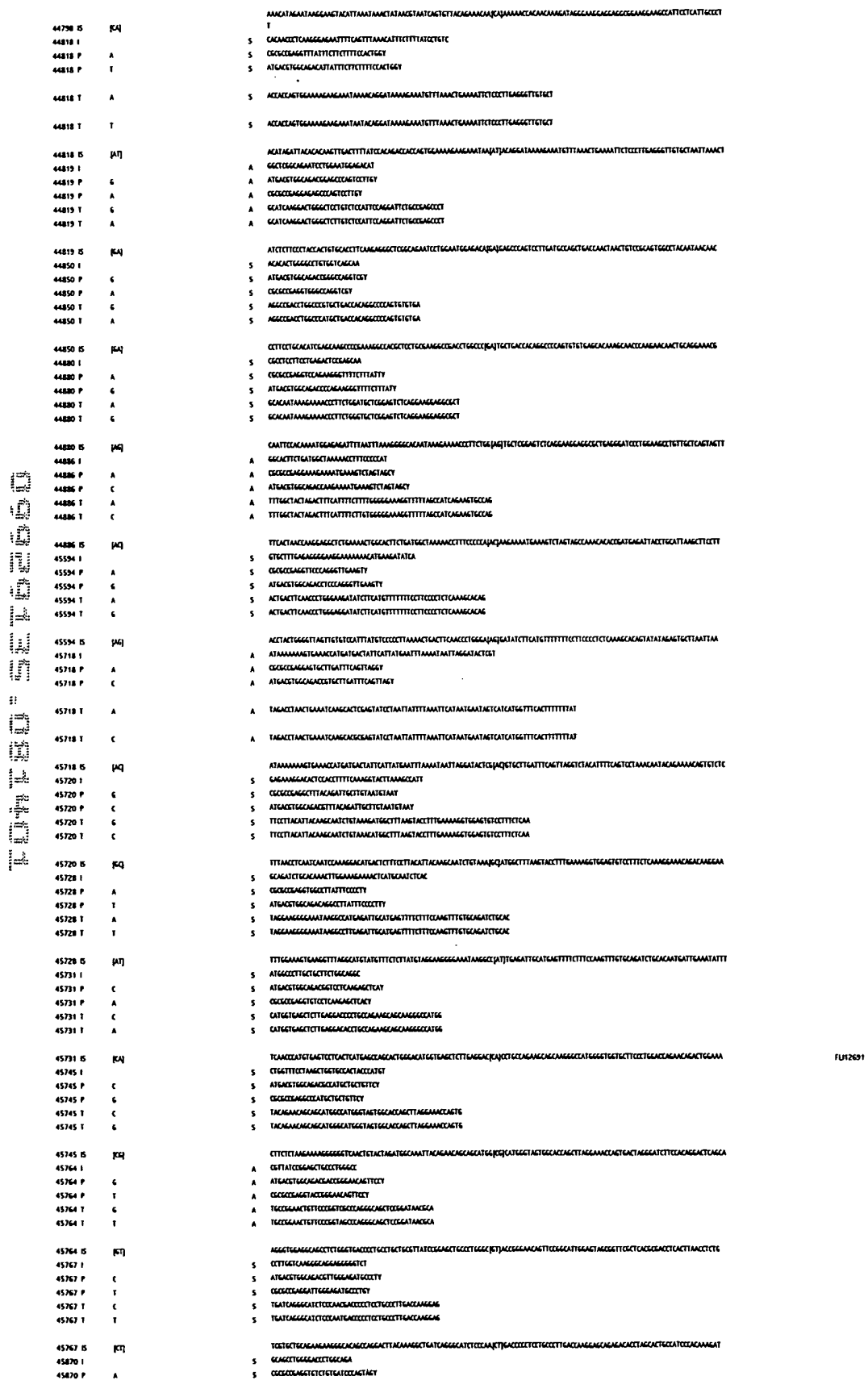
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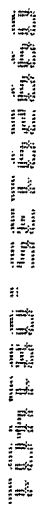
FIGURE 129F











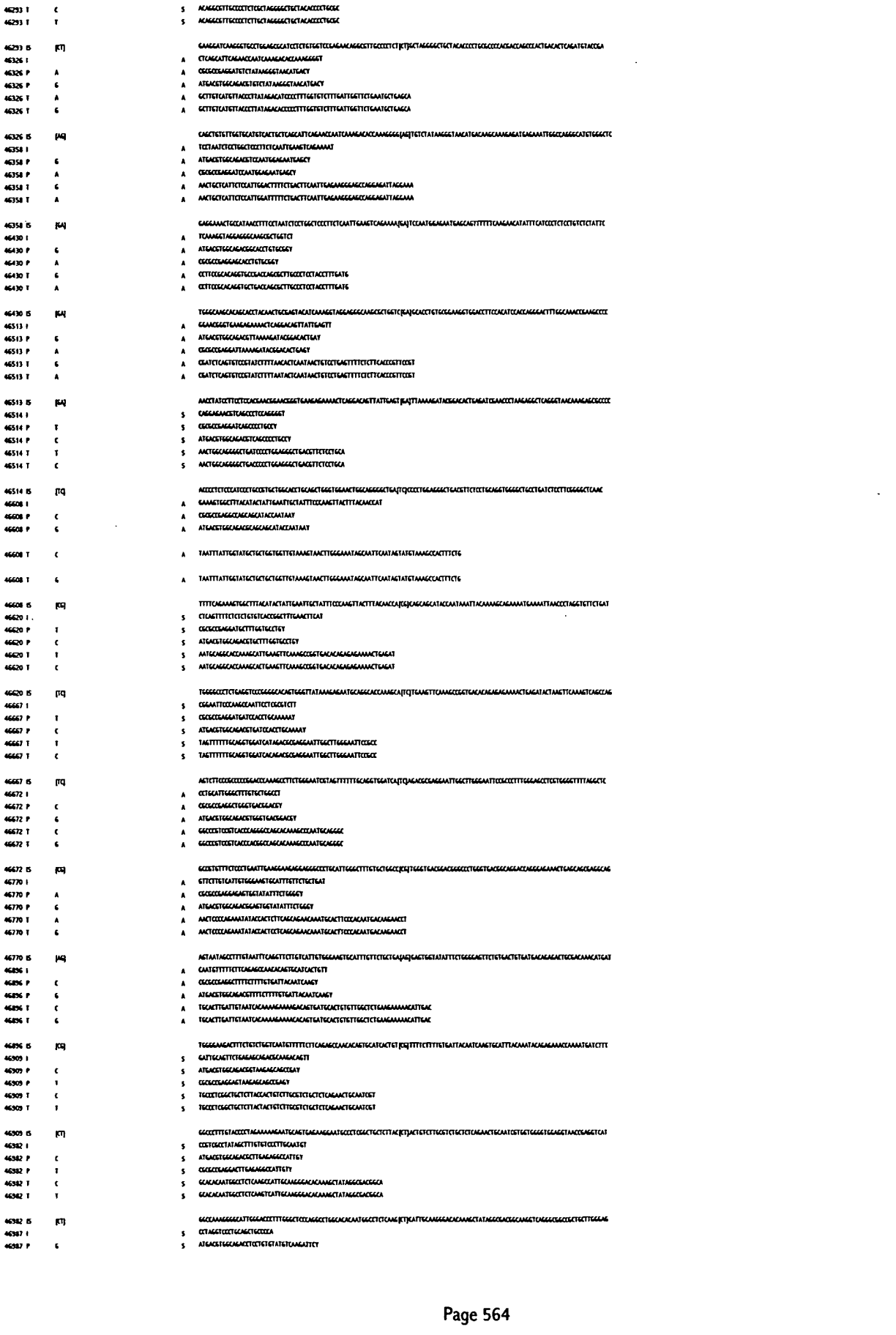
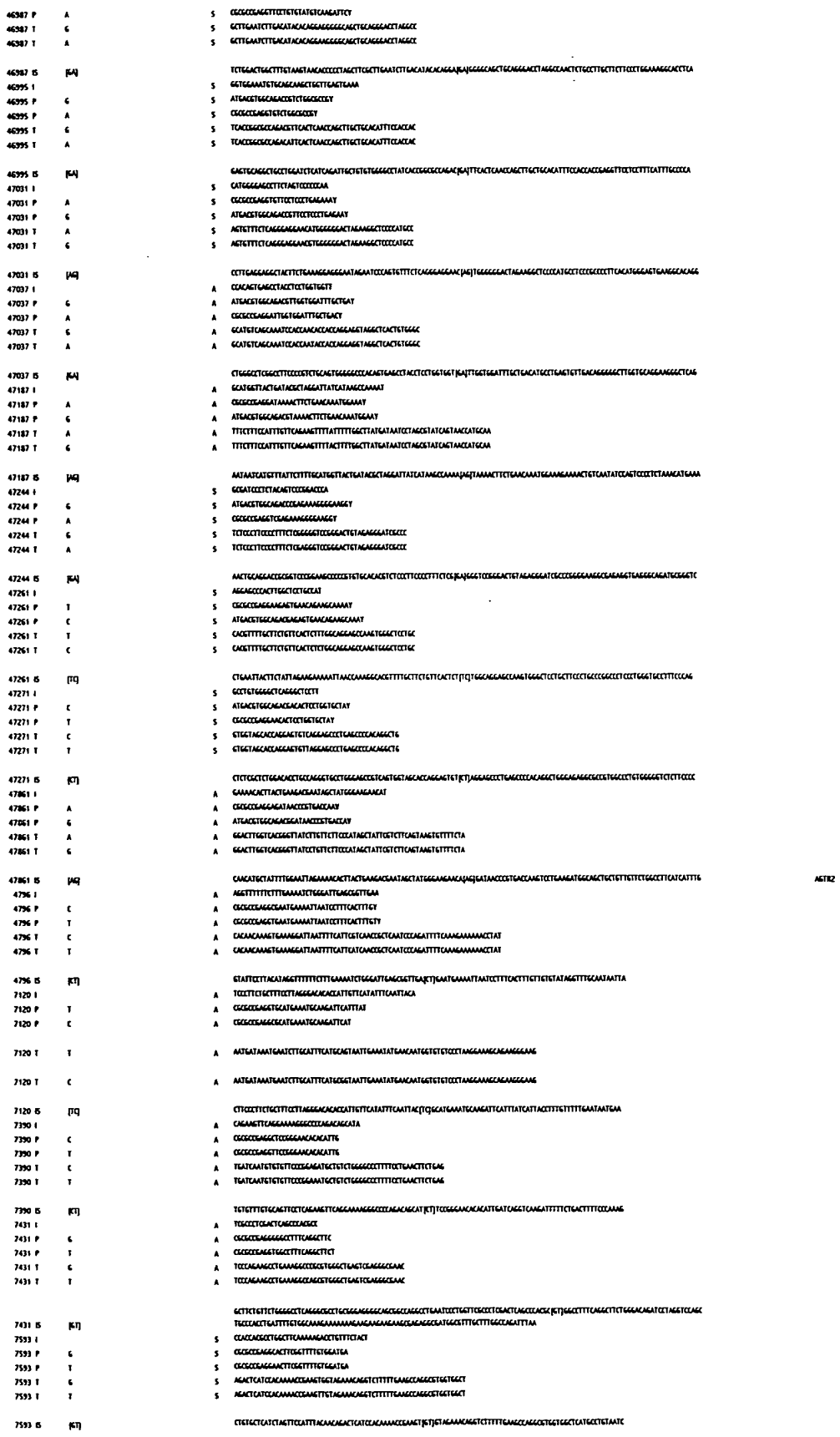


FIGURE 129F





Docket No. 10020.0001.PCUS.00

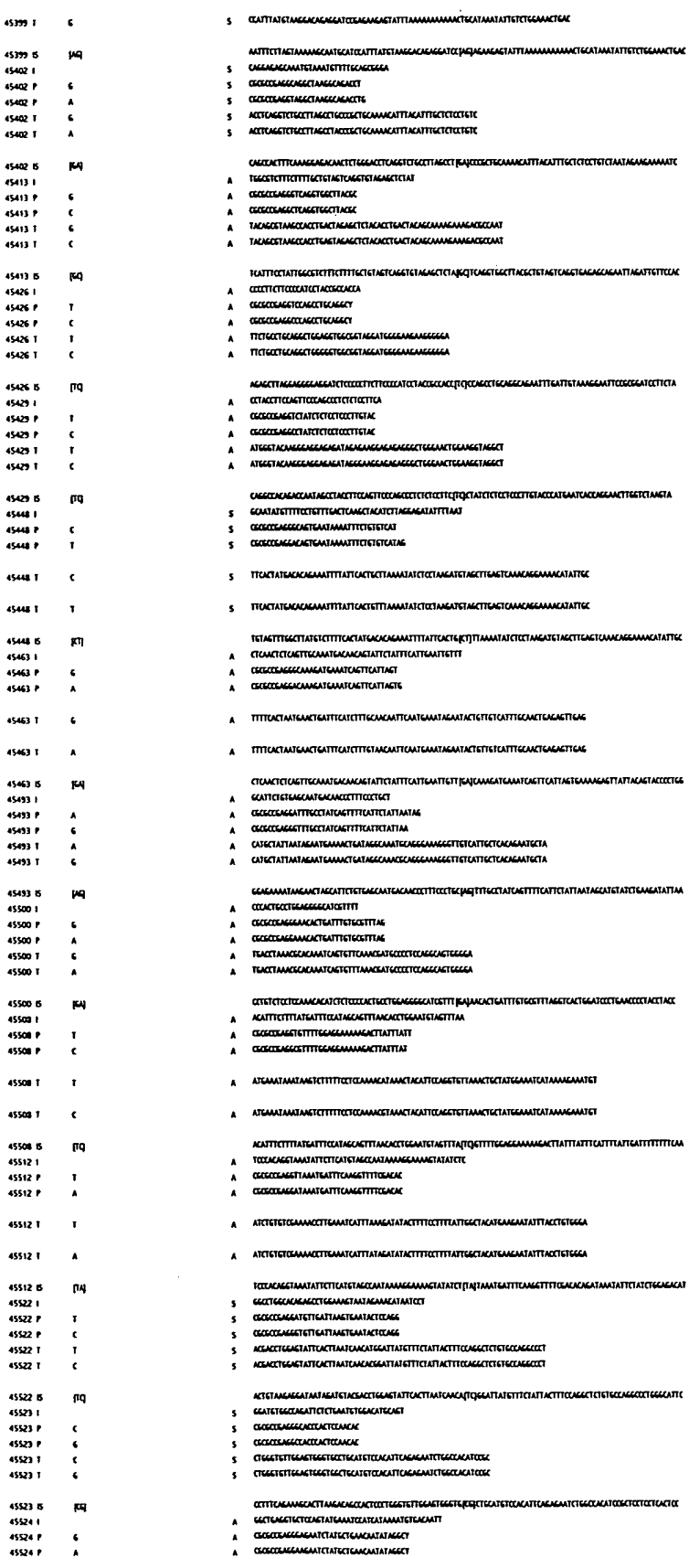
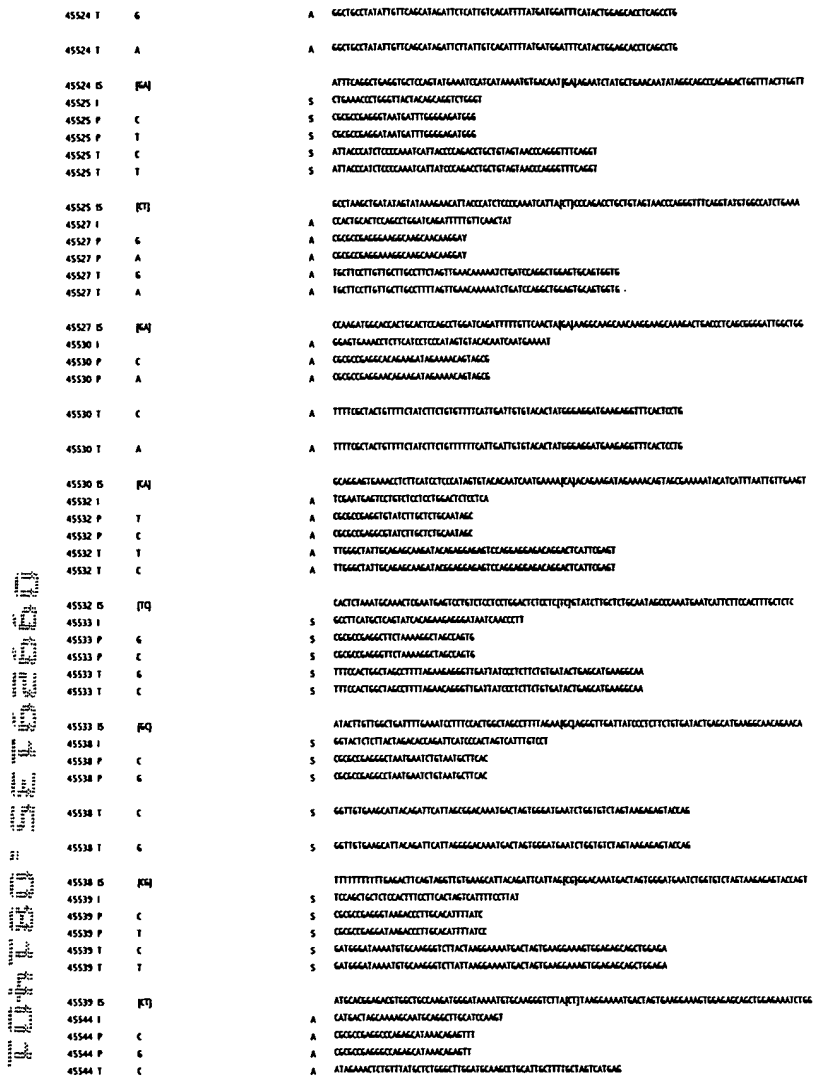
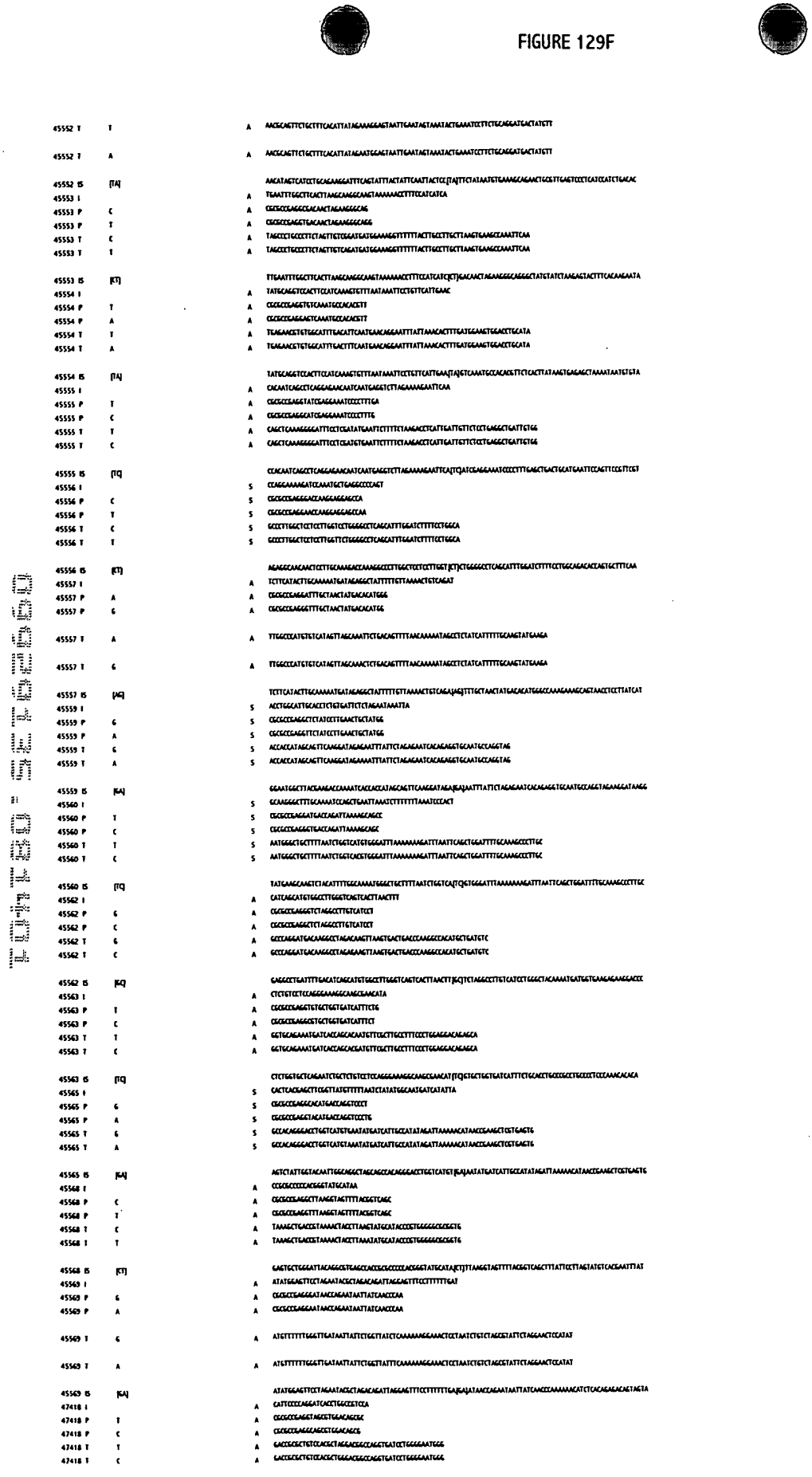


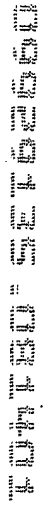
FIGURE 129F













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Express Mail No. EV339918705US

FIGURE 129F

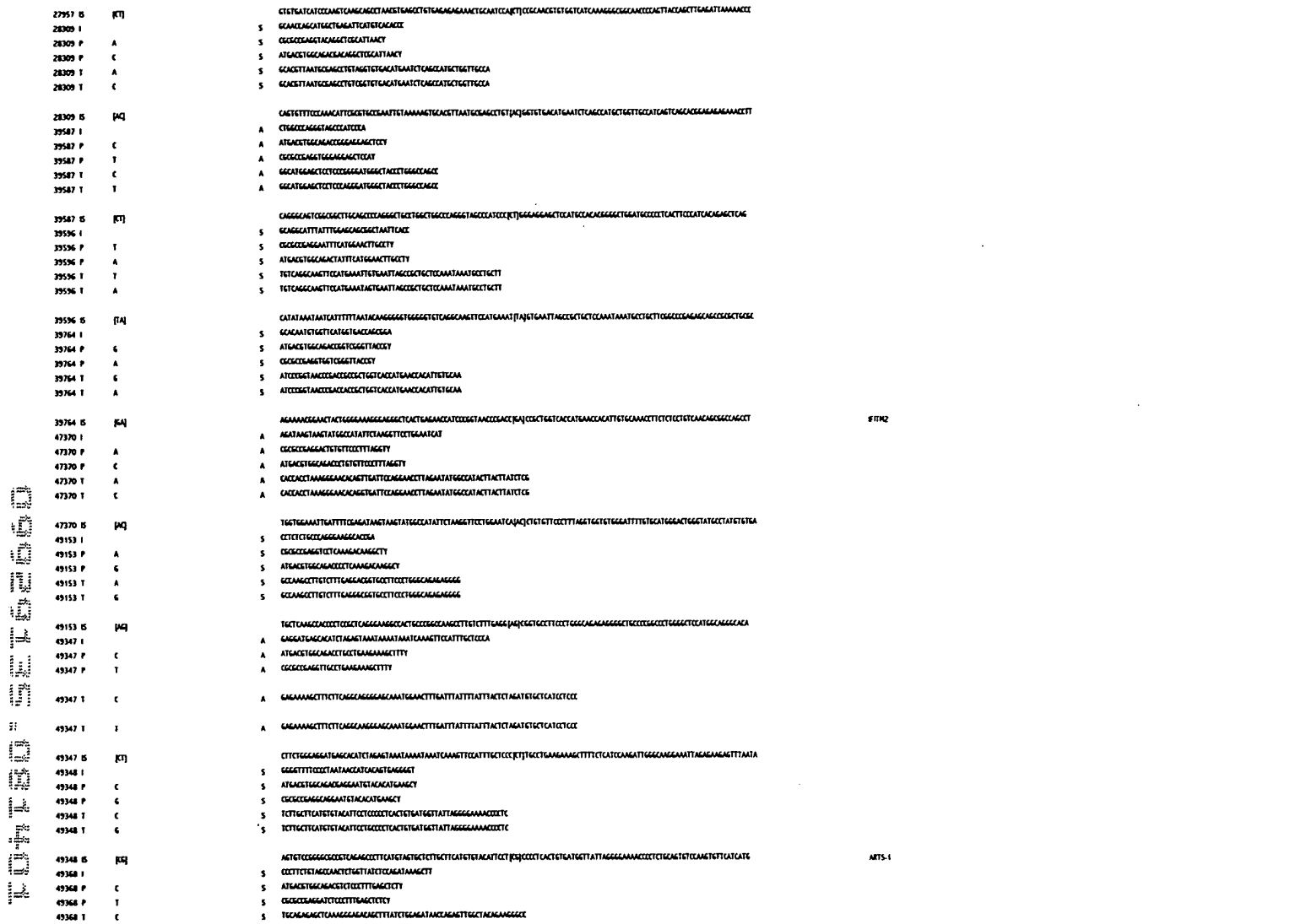
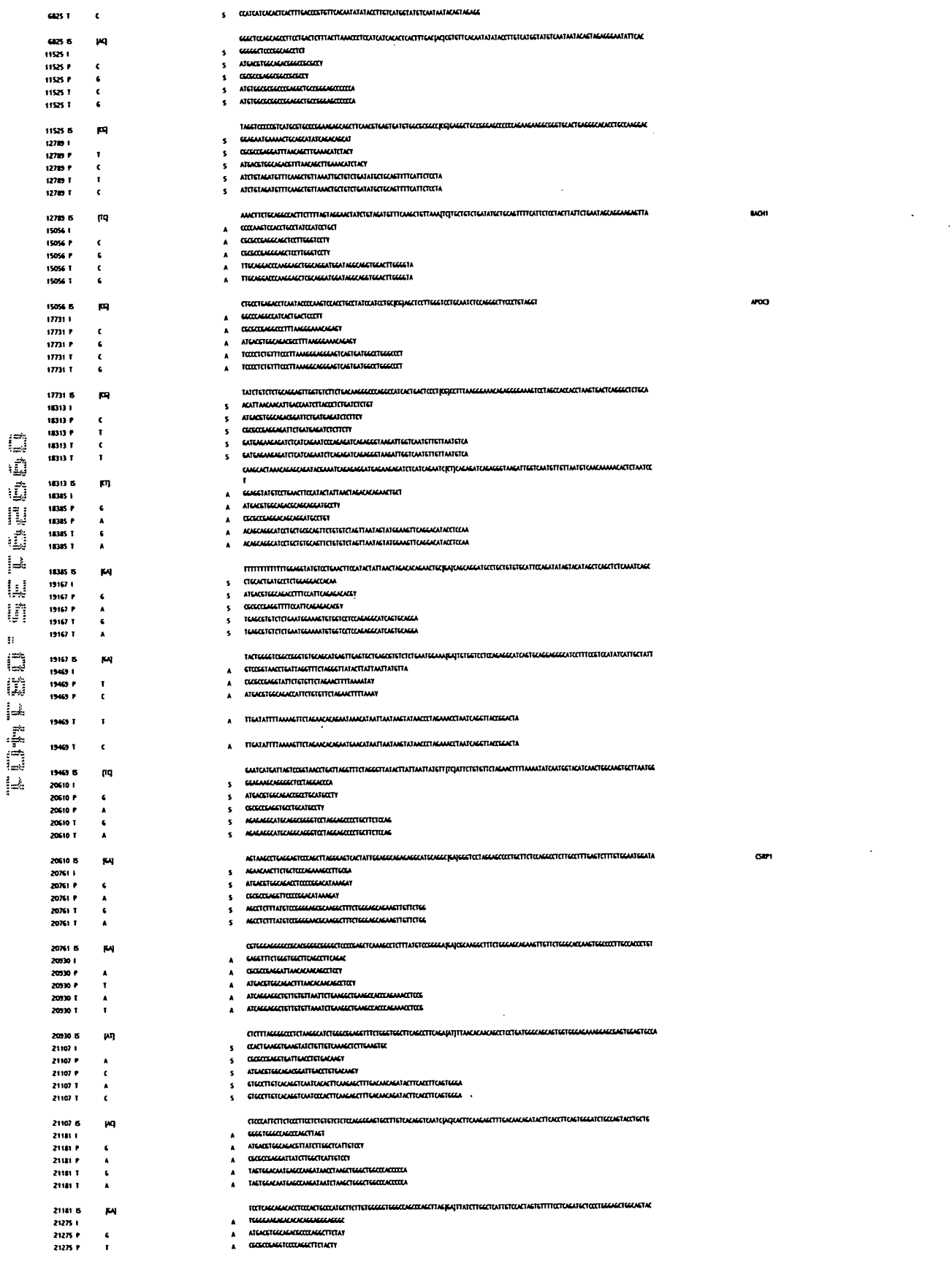
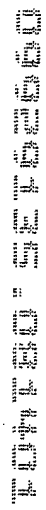
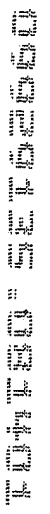
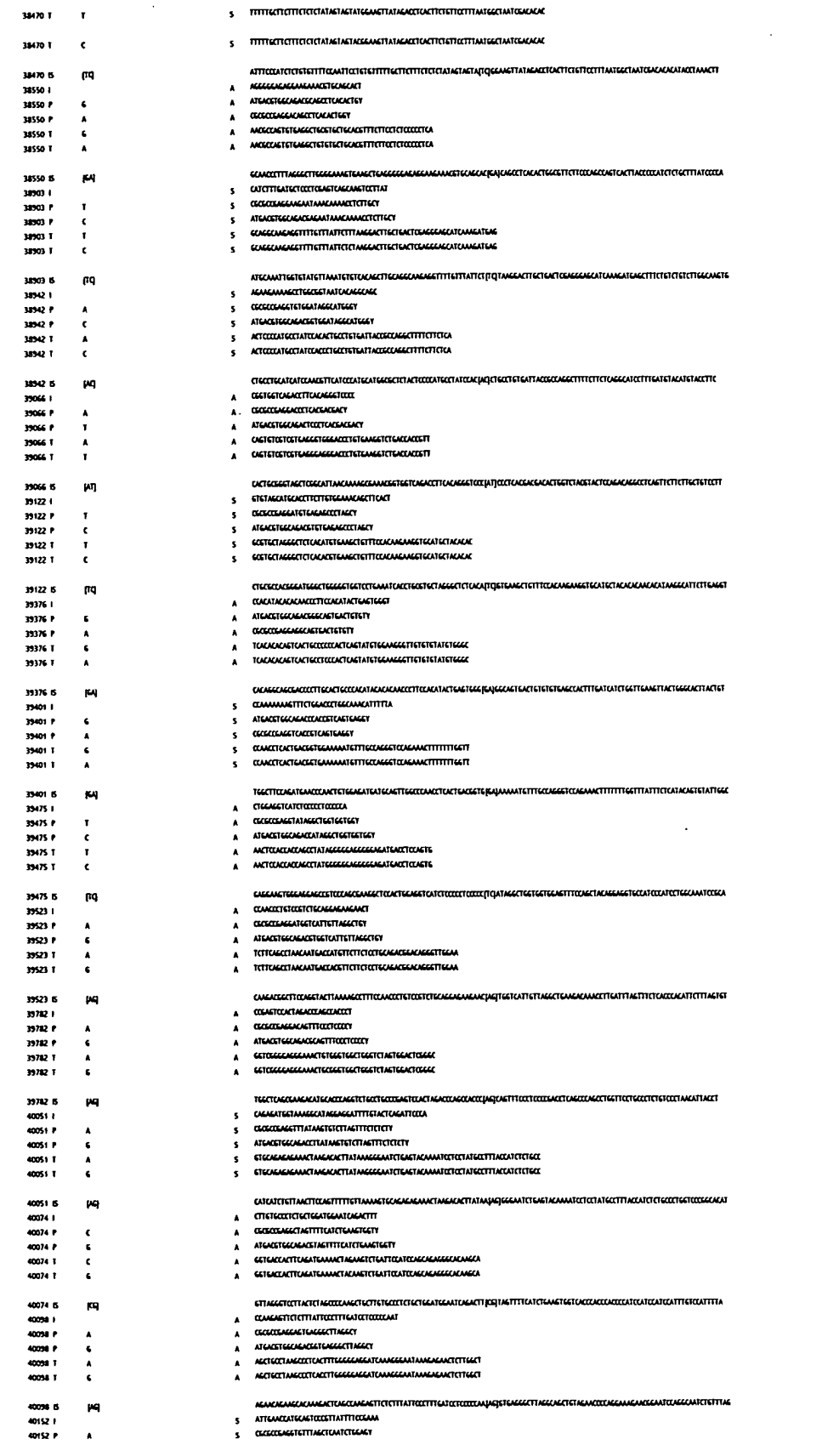


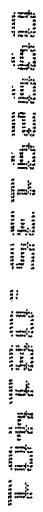
FIGURE 129F











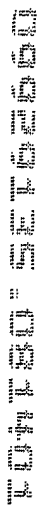


FIGURE 129F

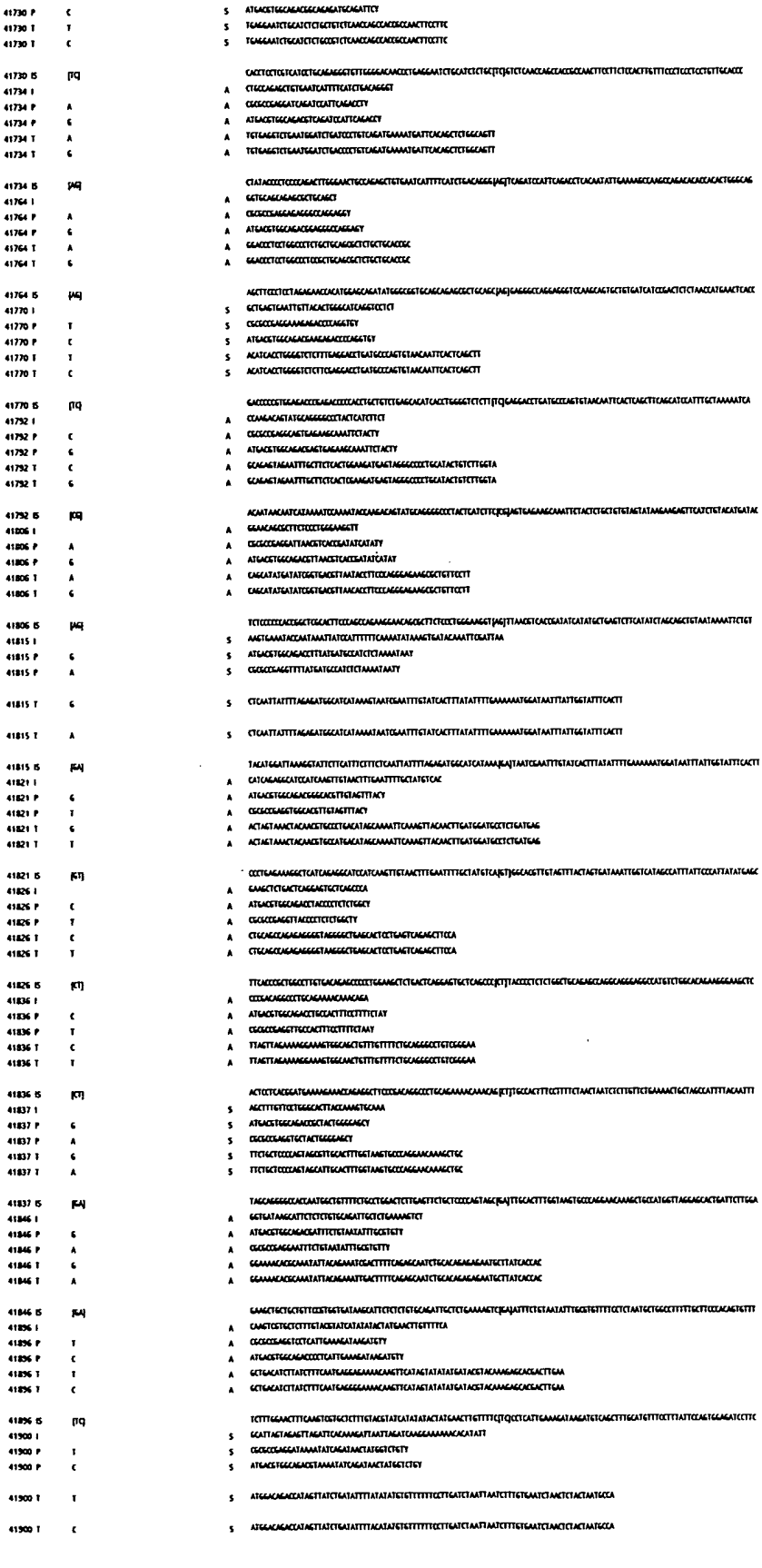
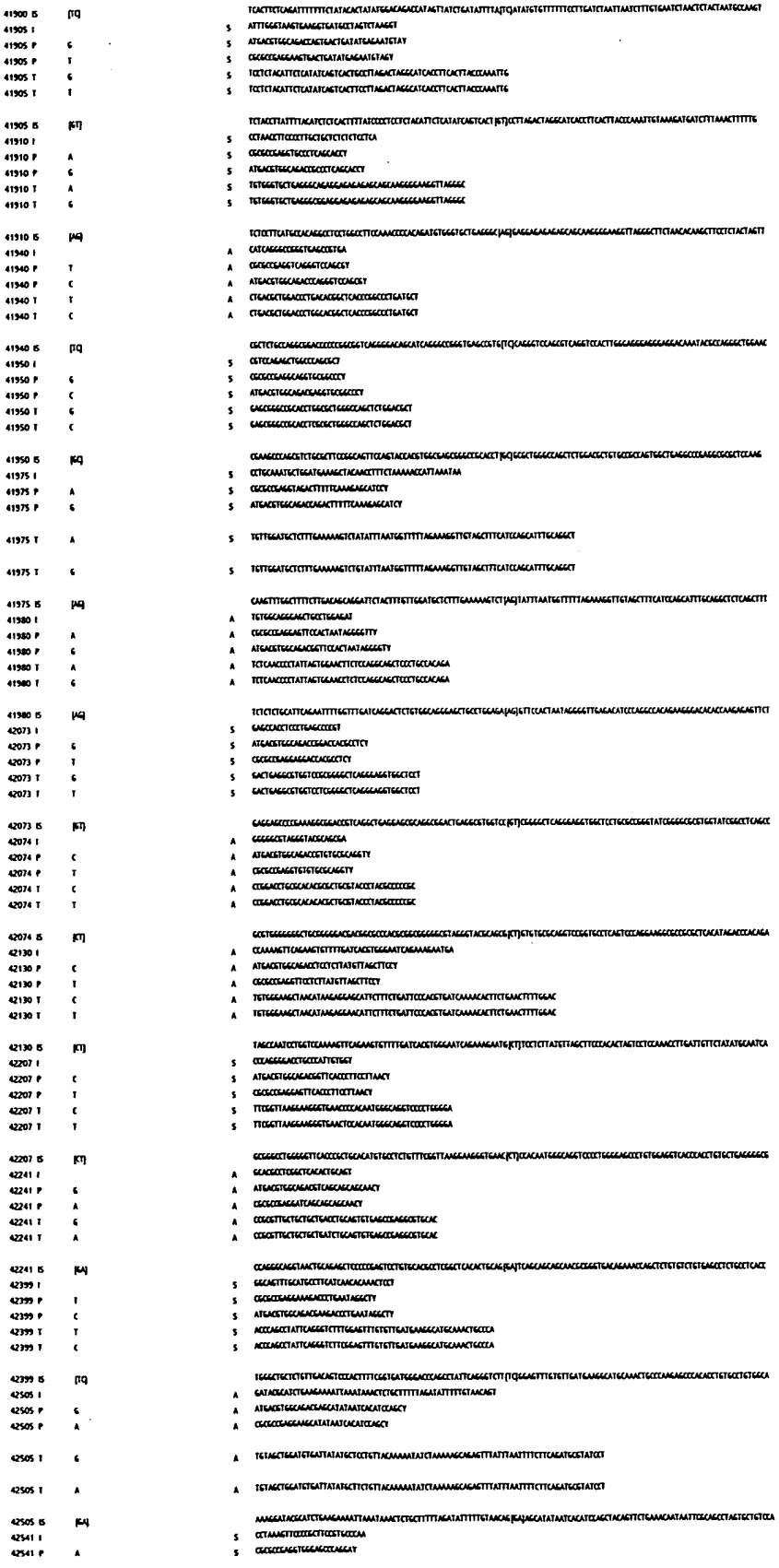


FIGURE 129F



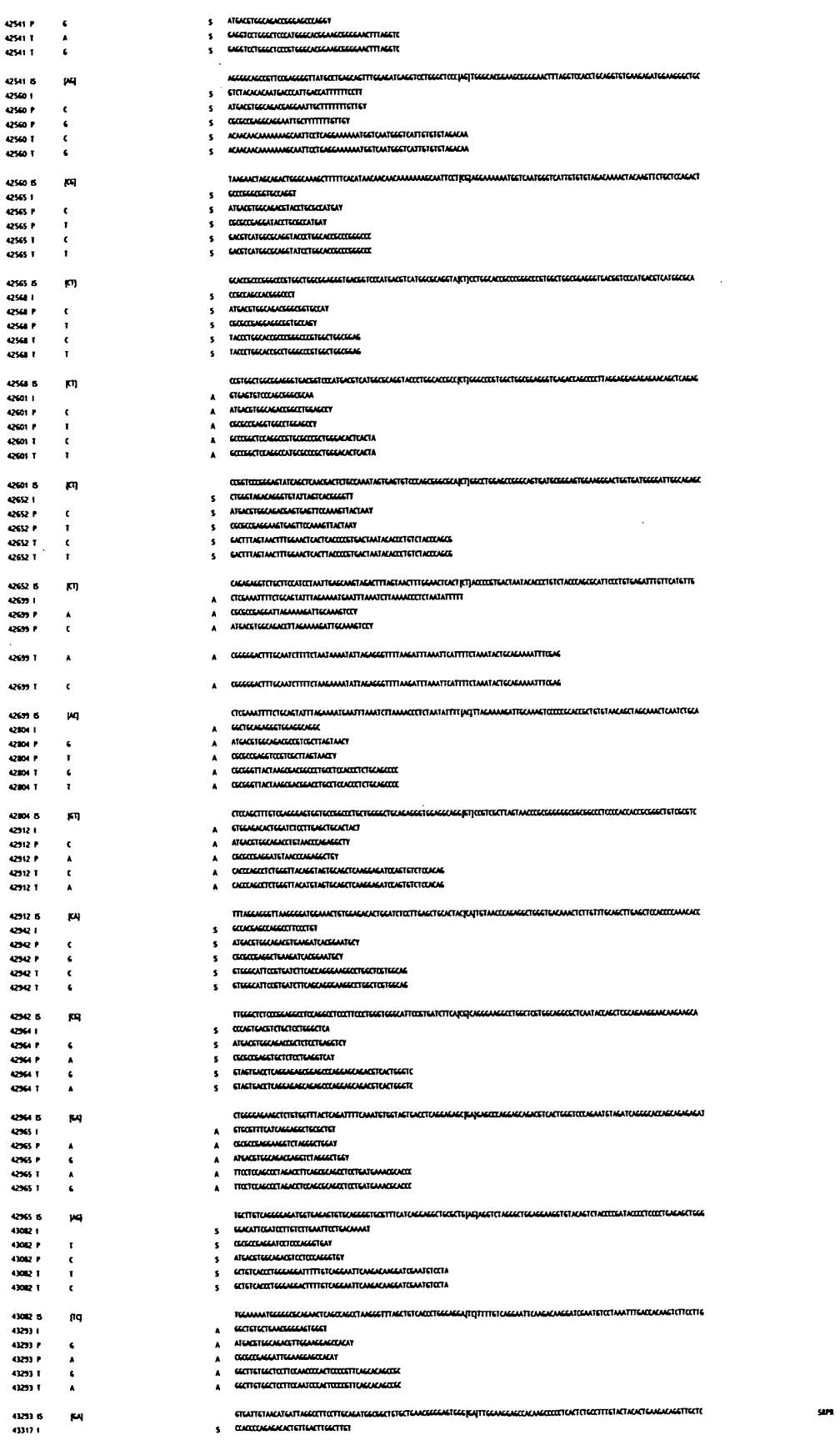








FIGURE 129F.

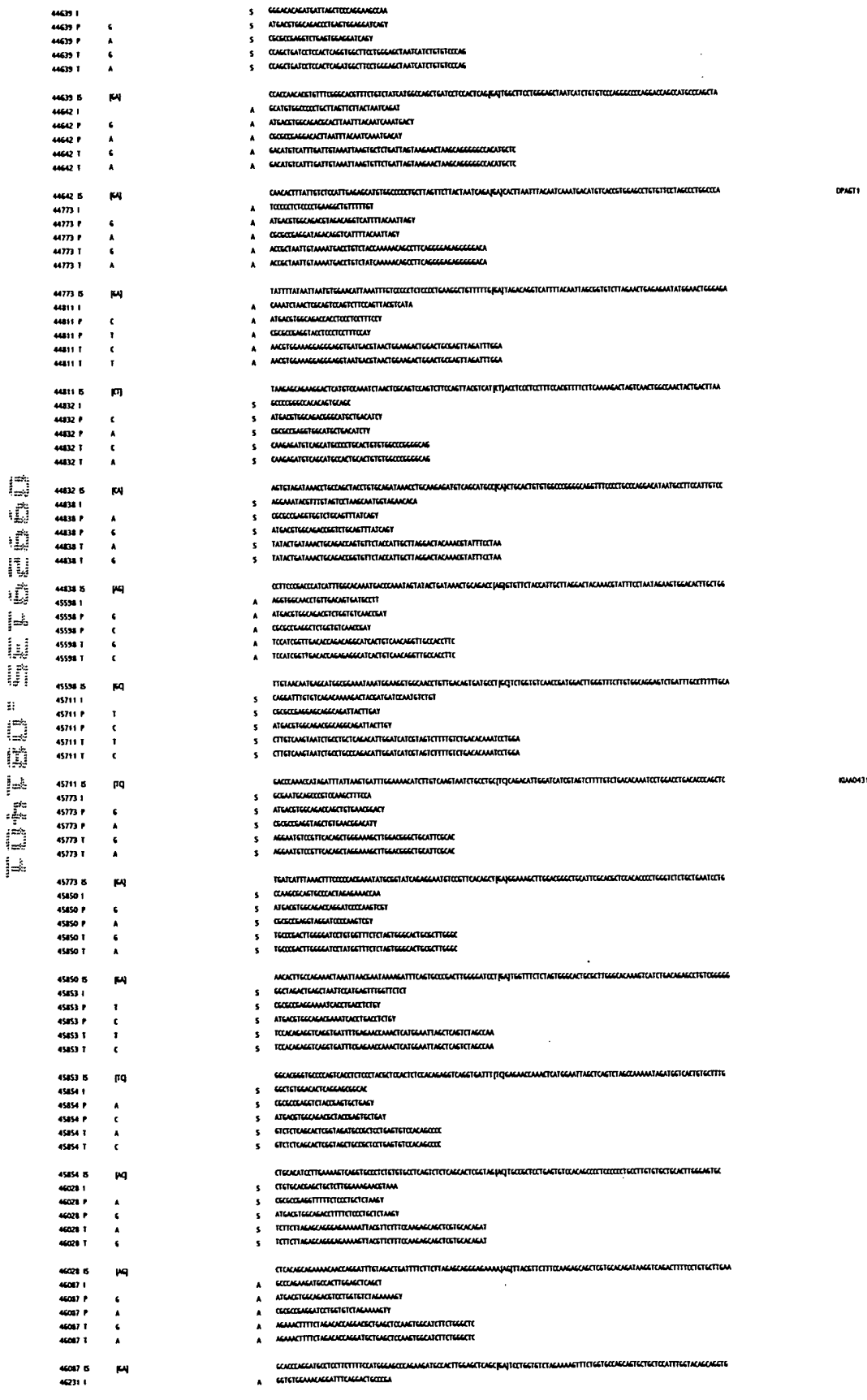
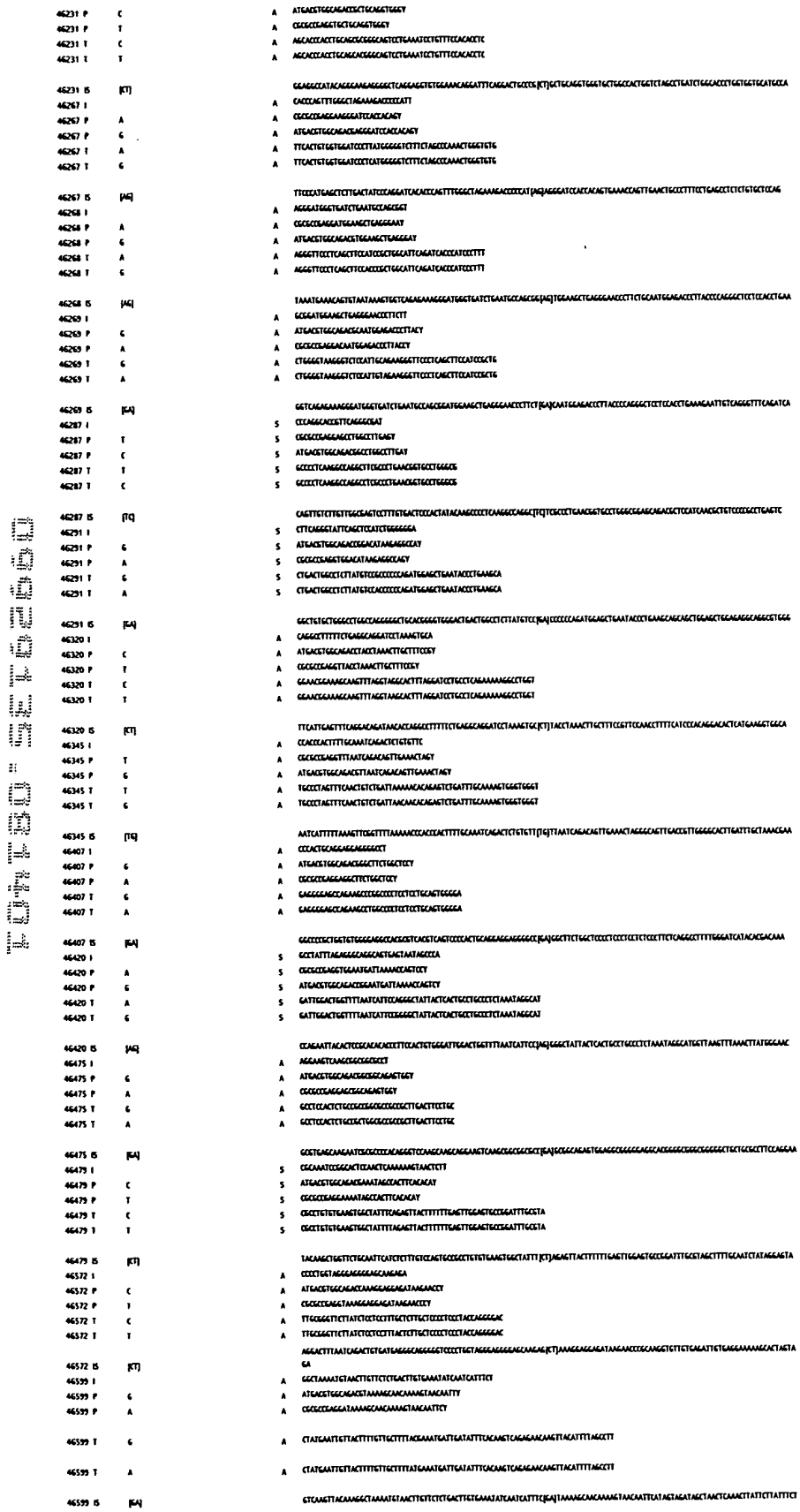
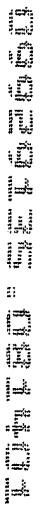
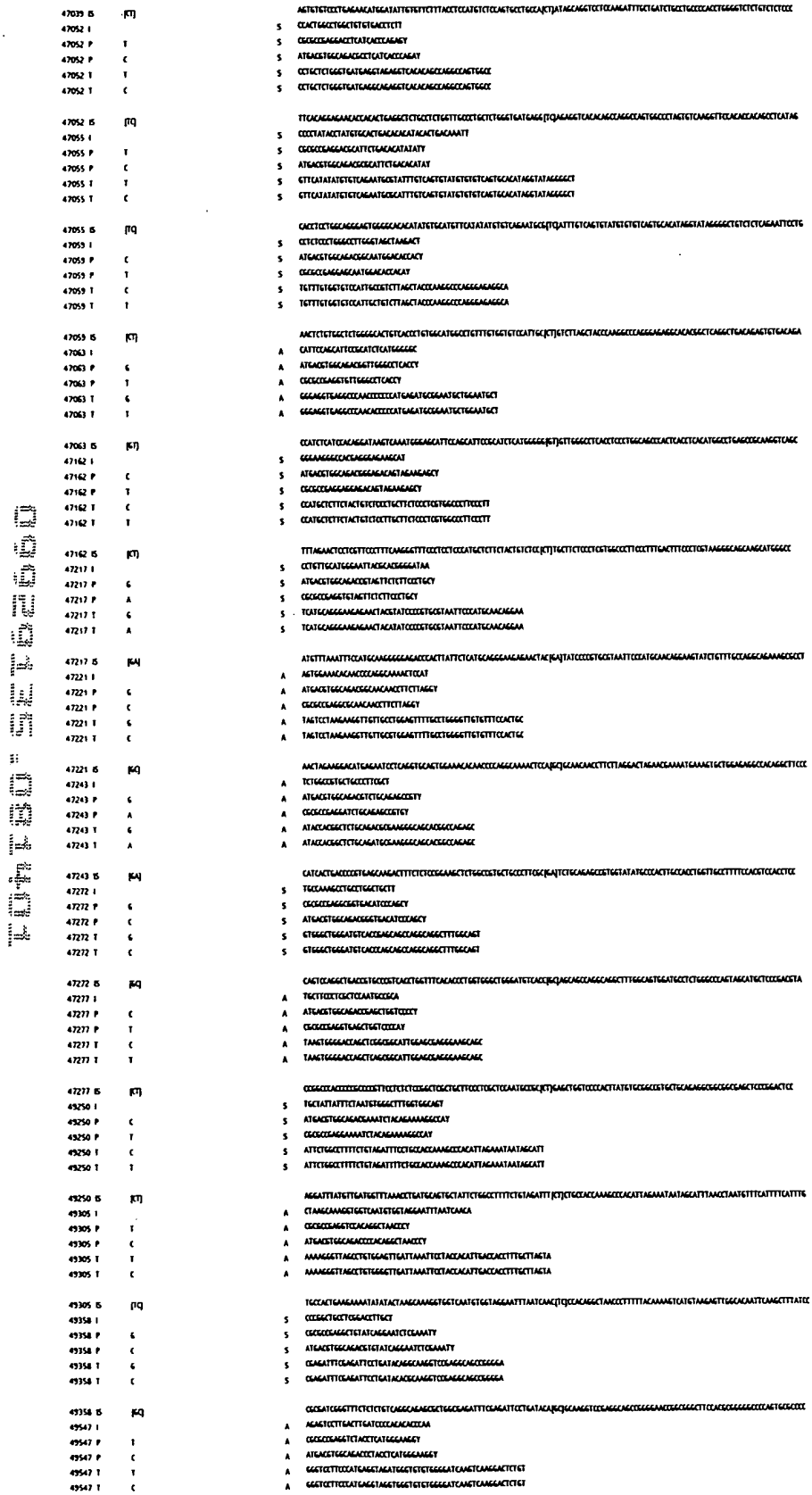
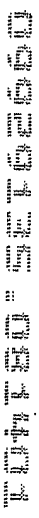


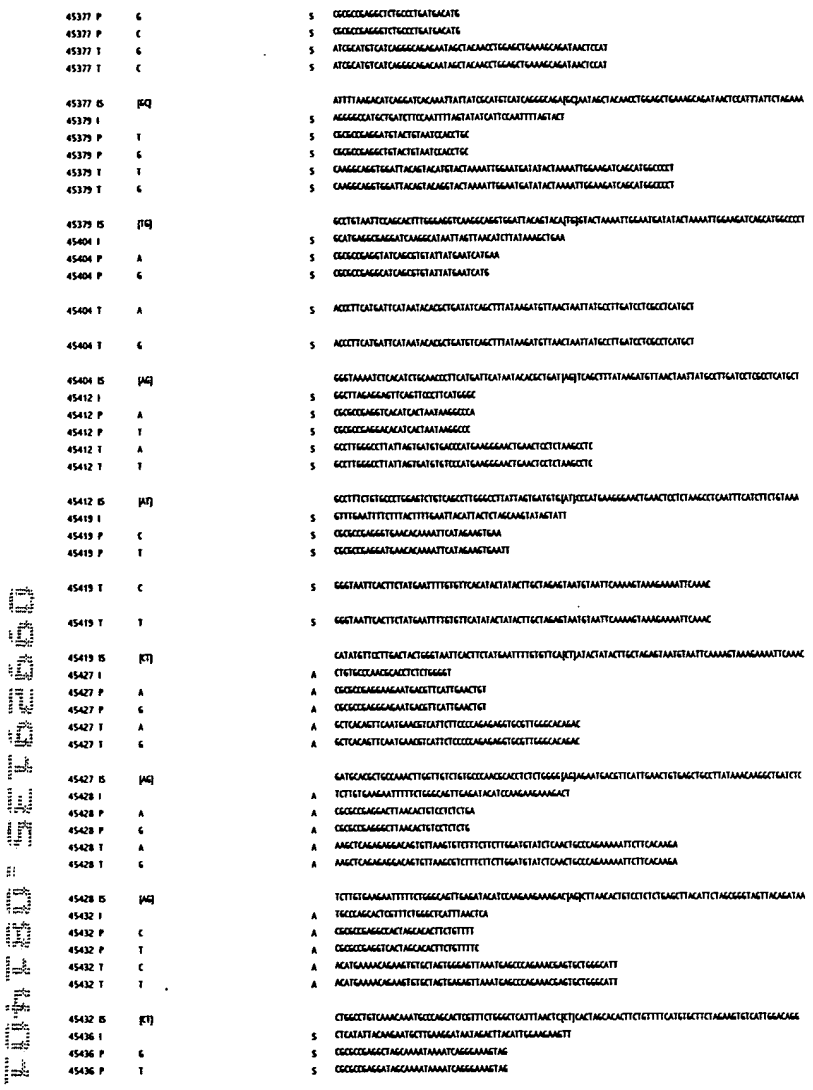
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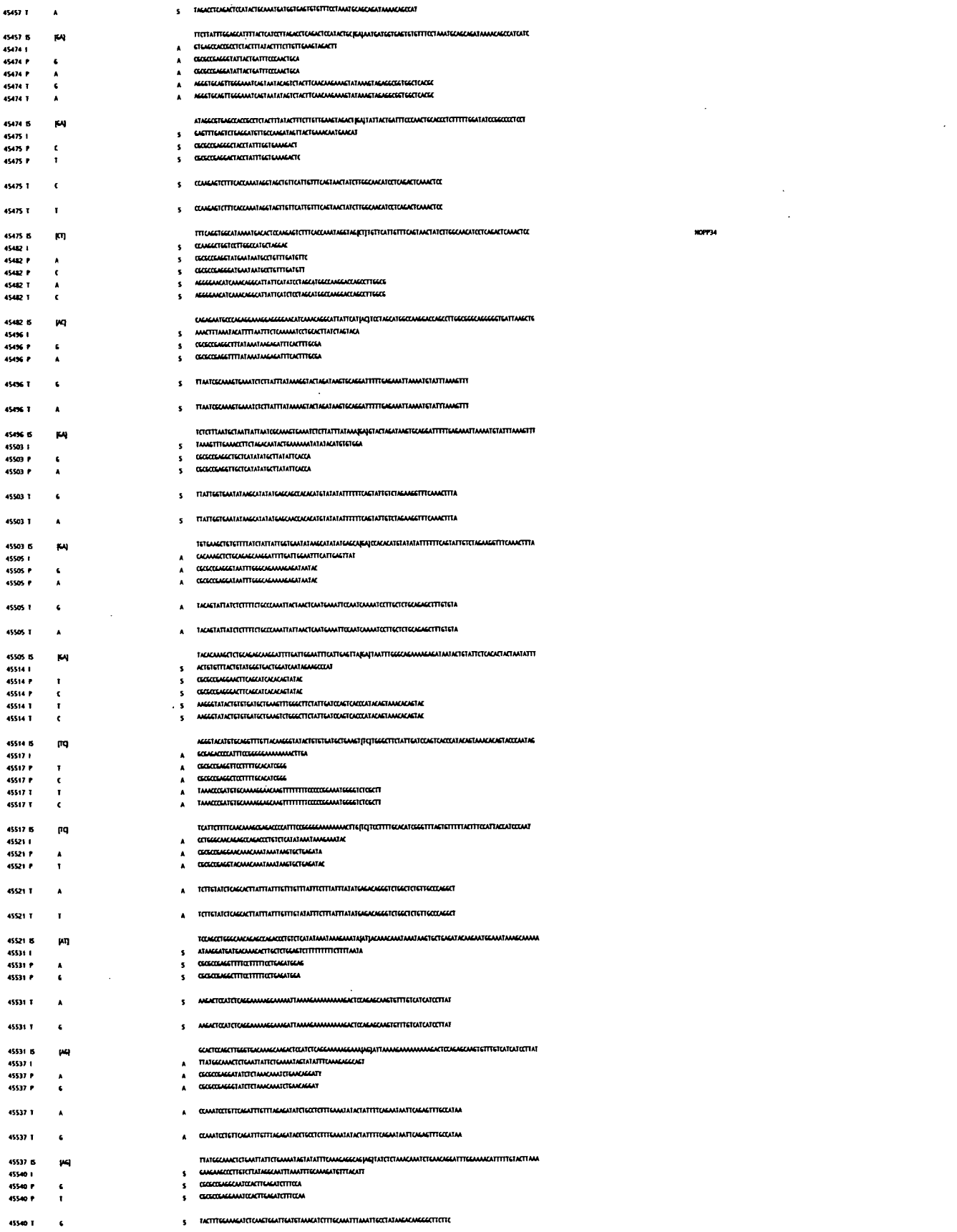


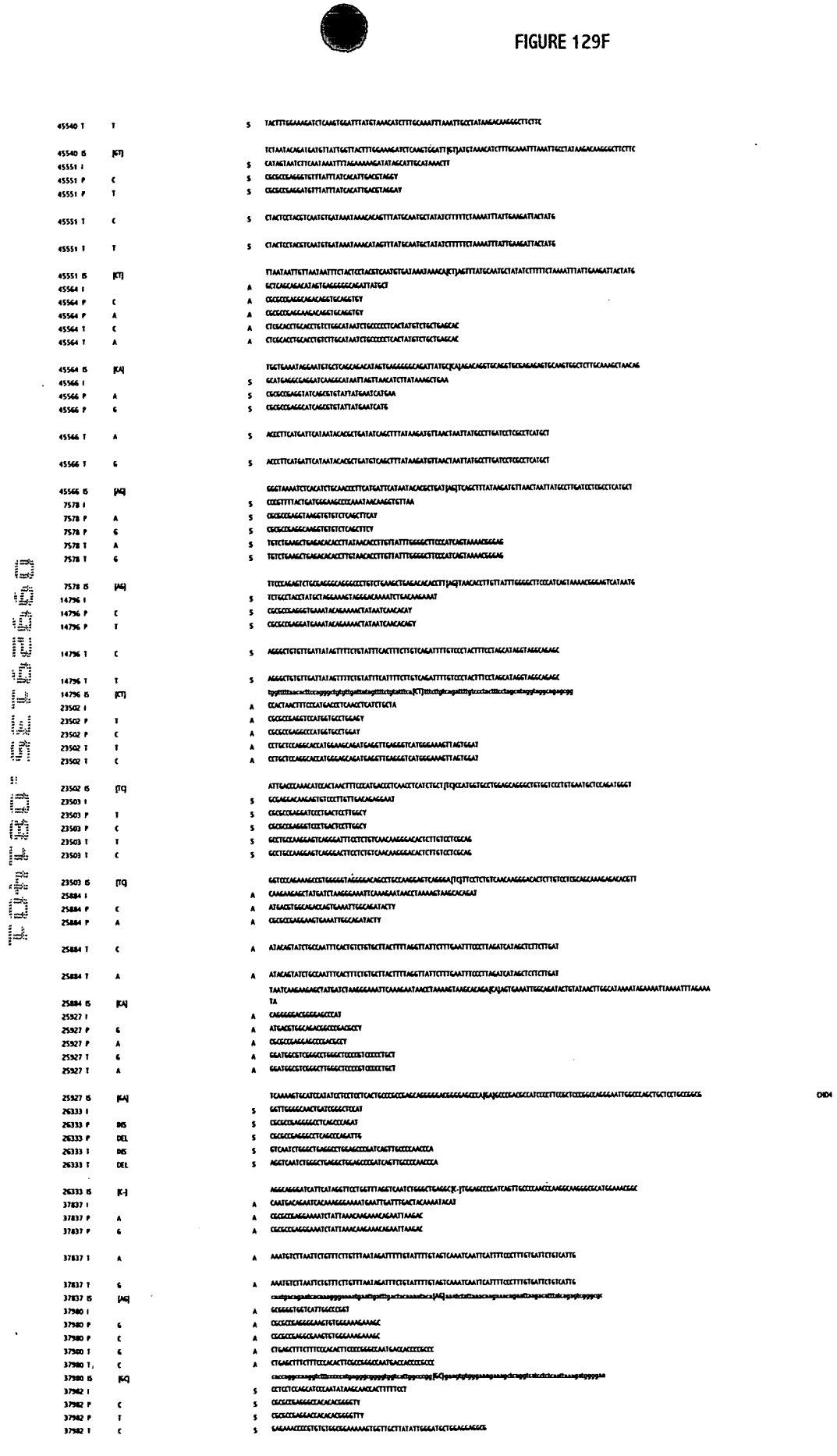


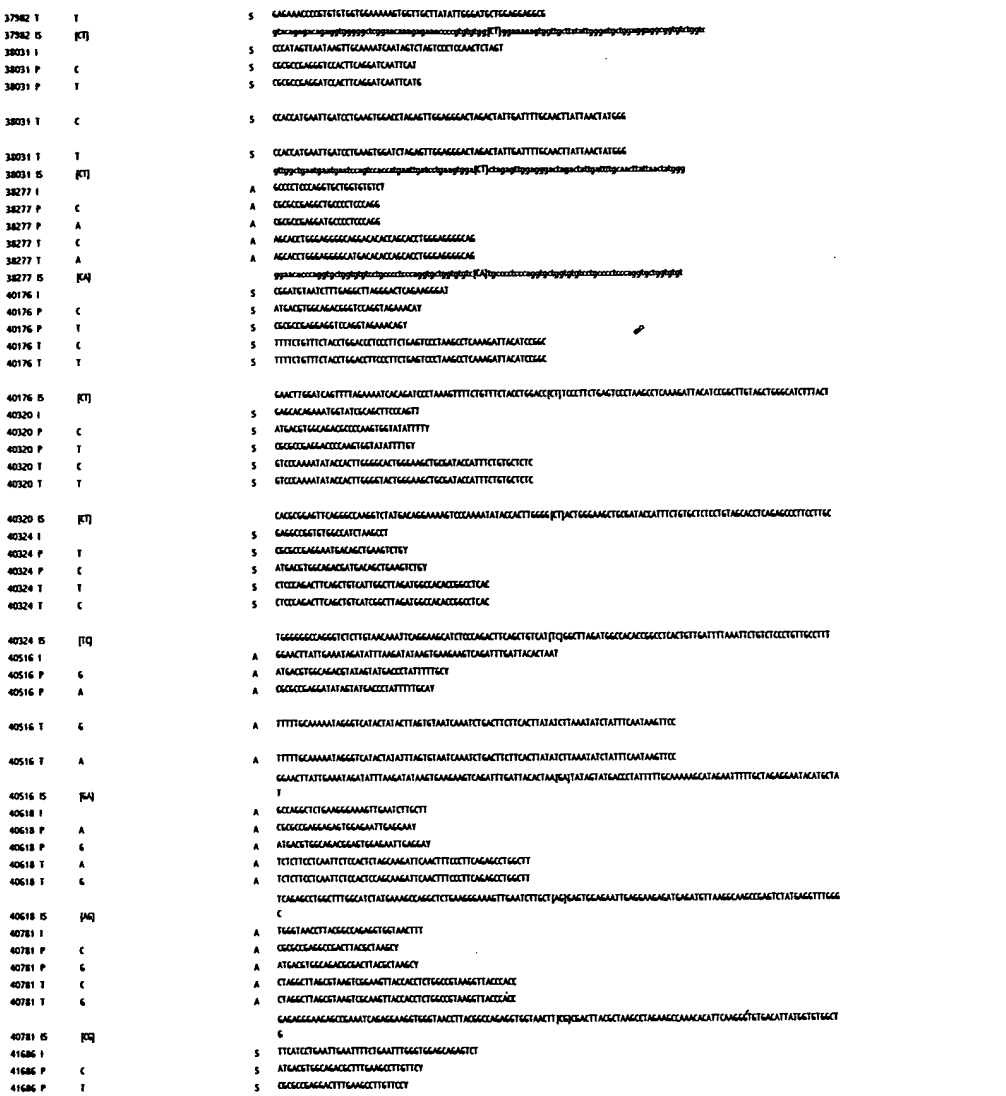


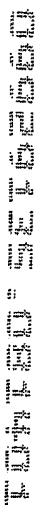


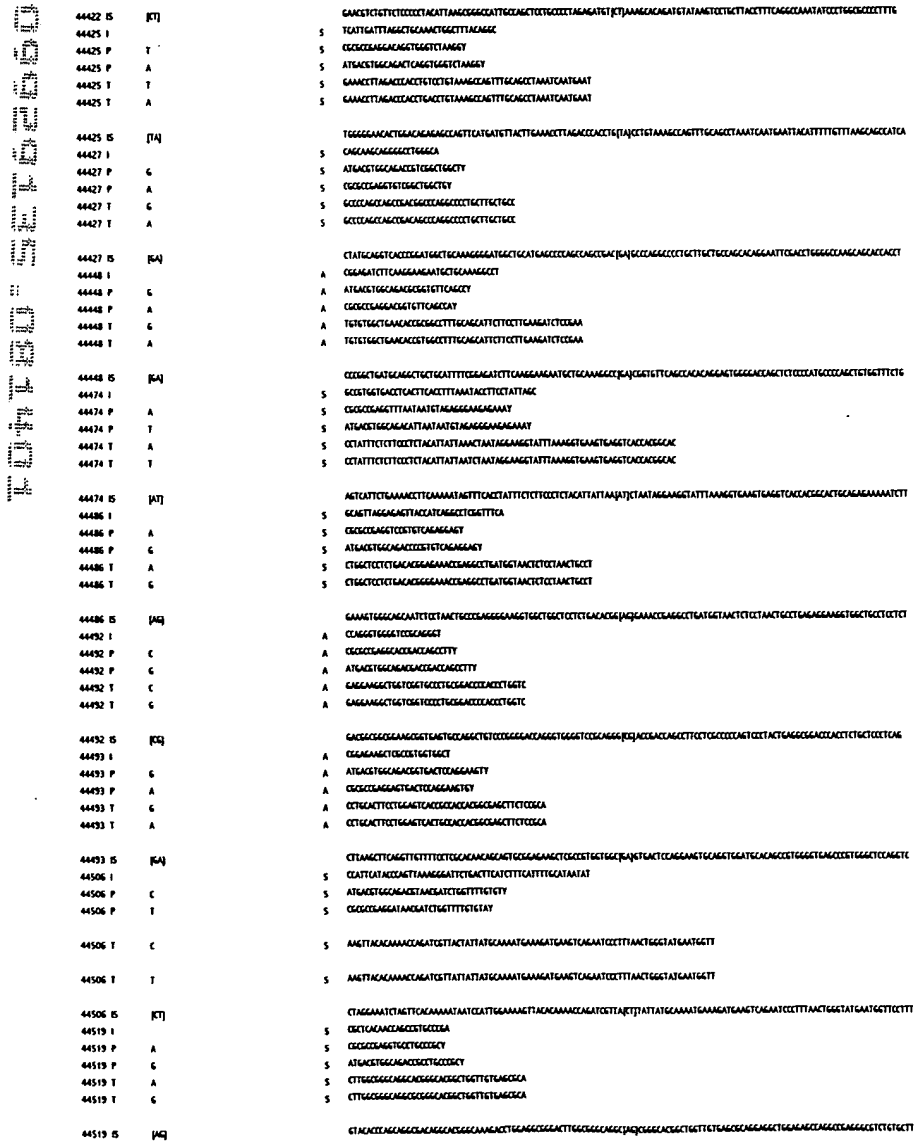


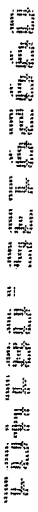


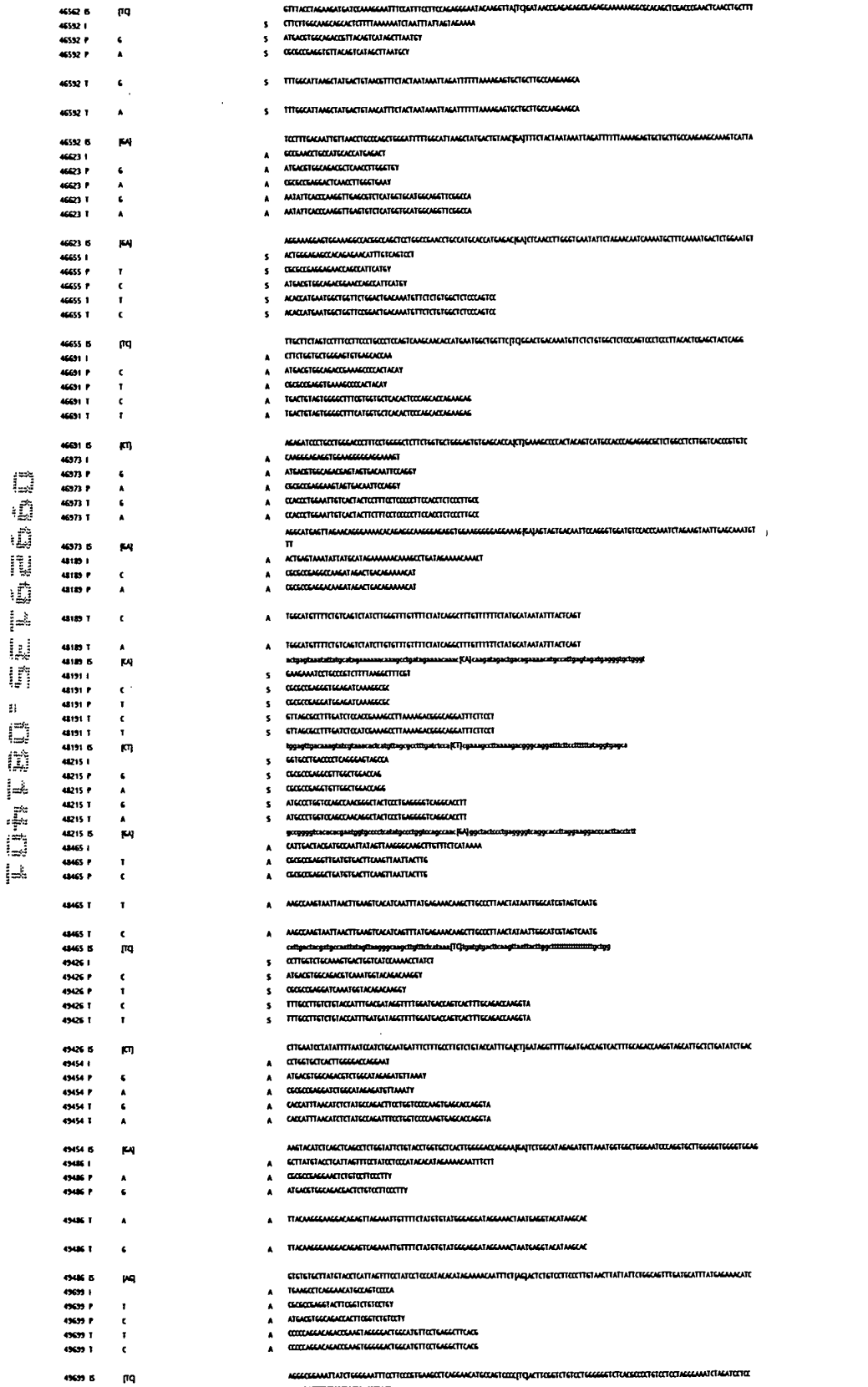












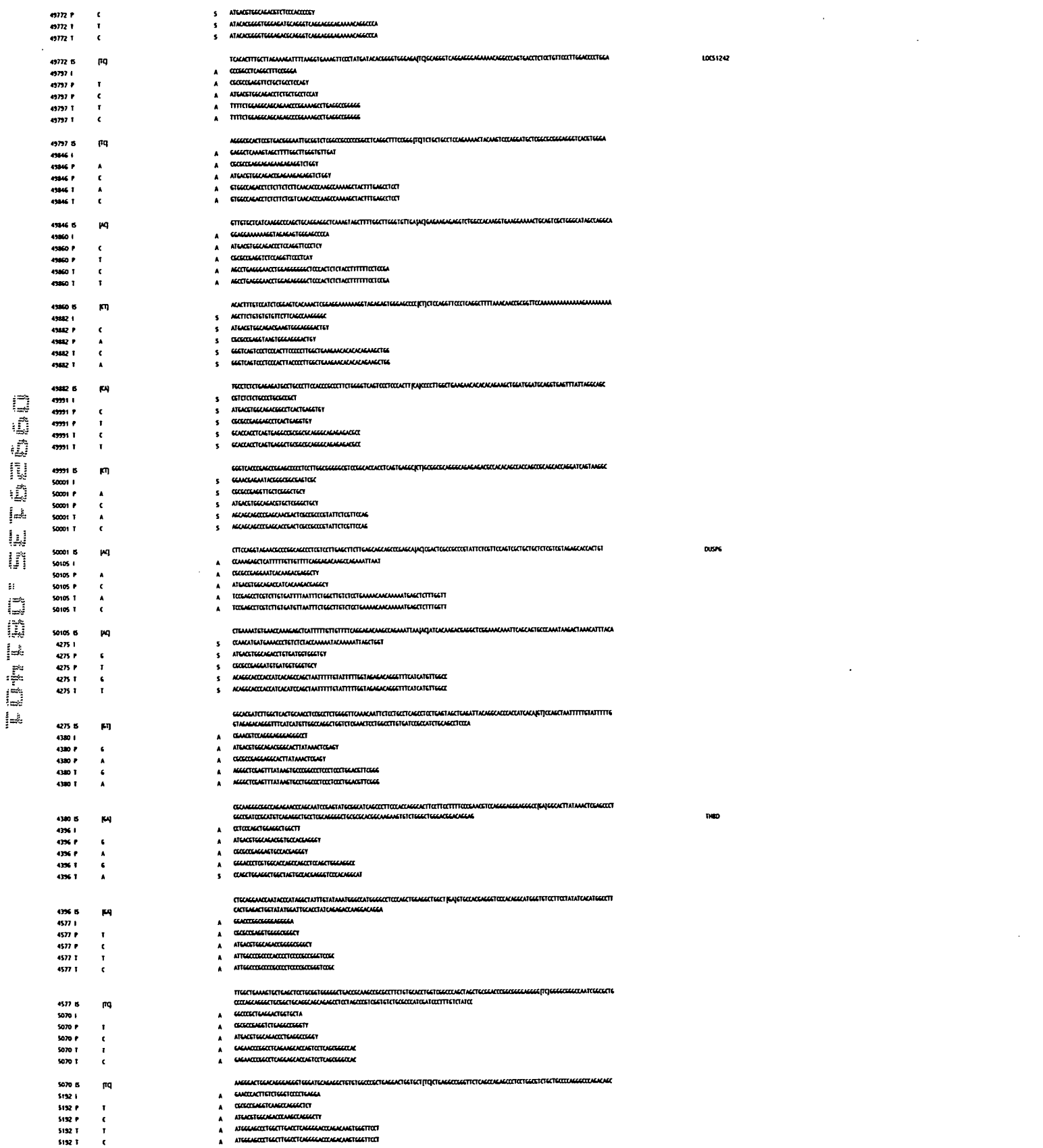
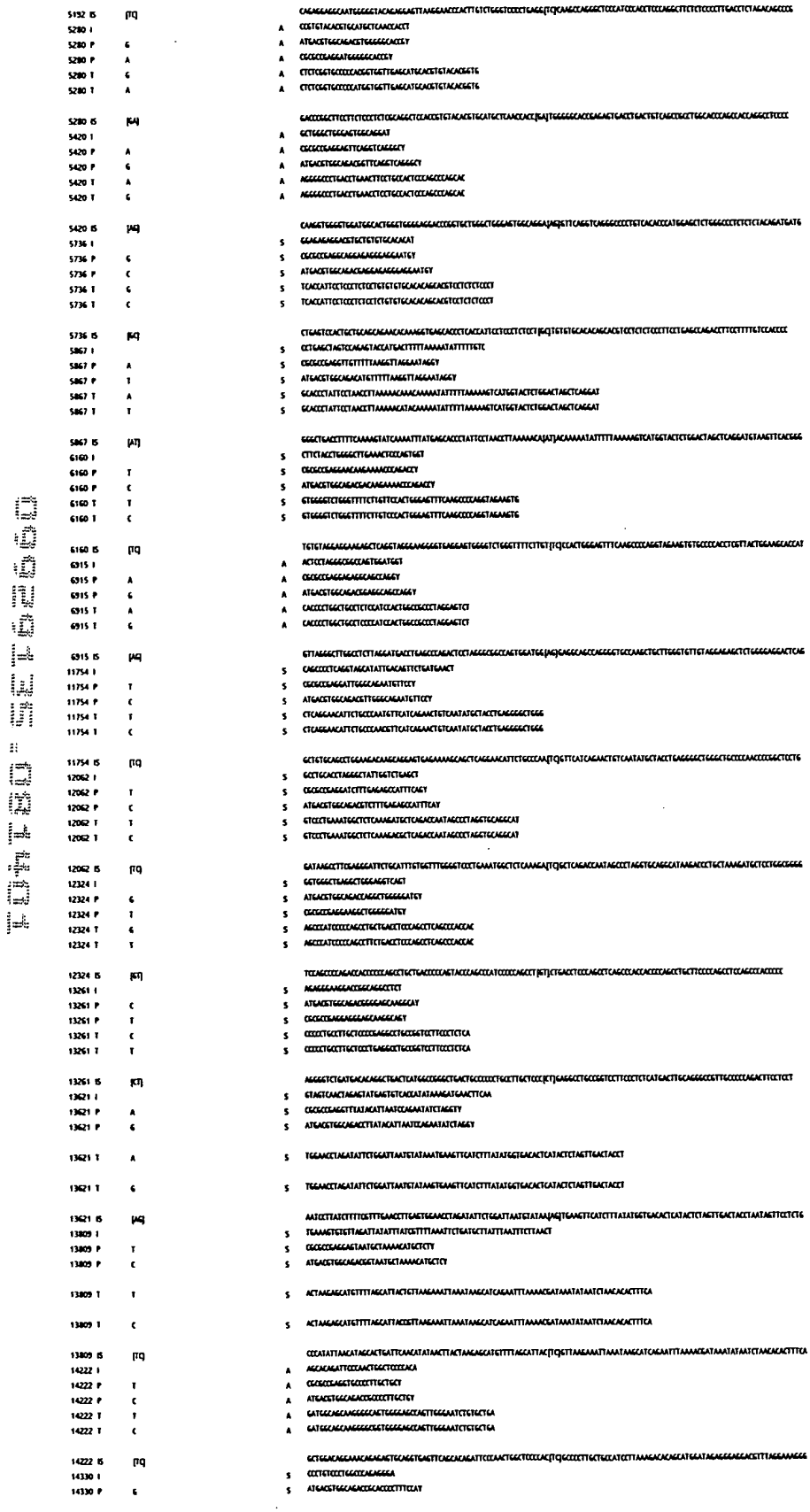
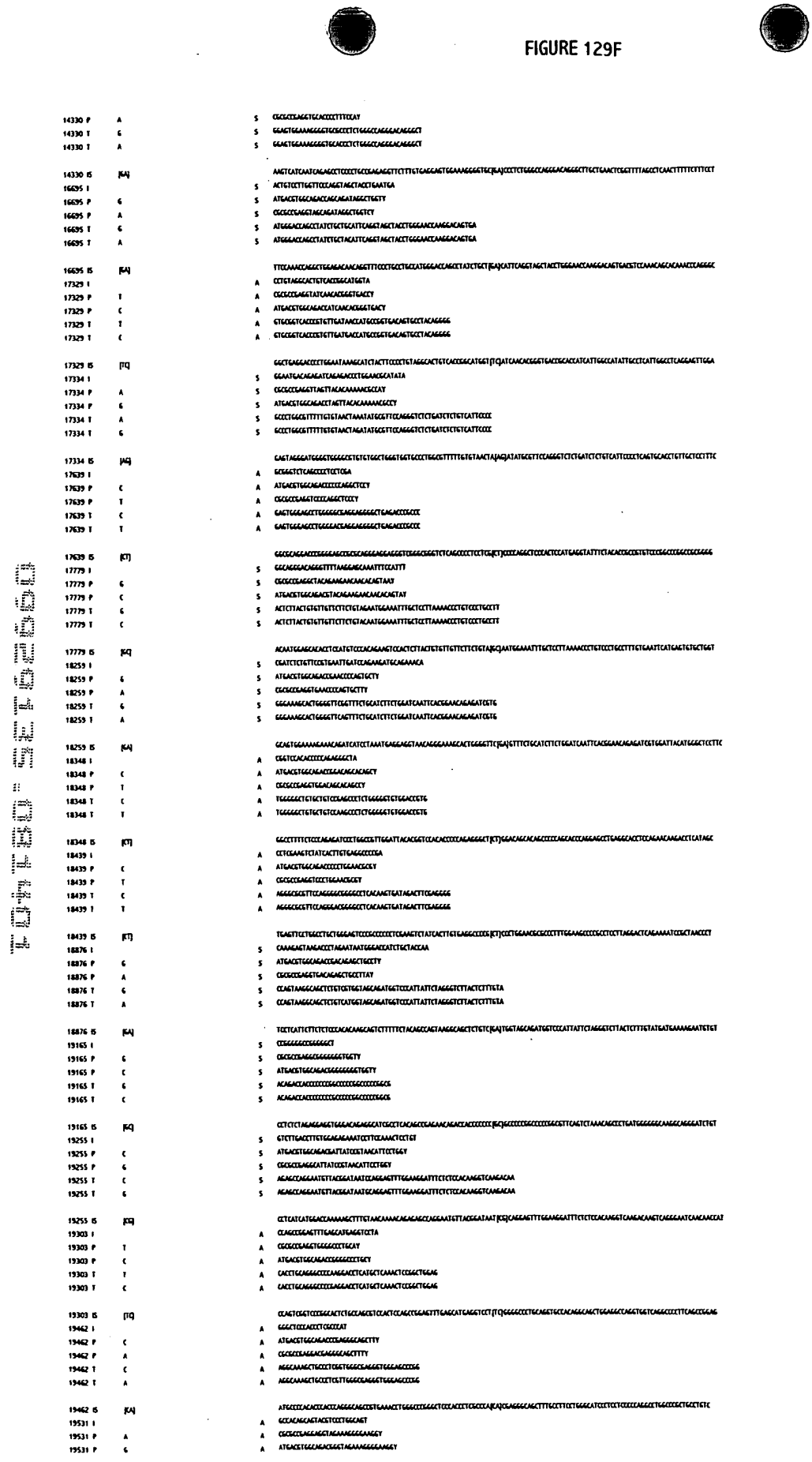


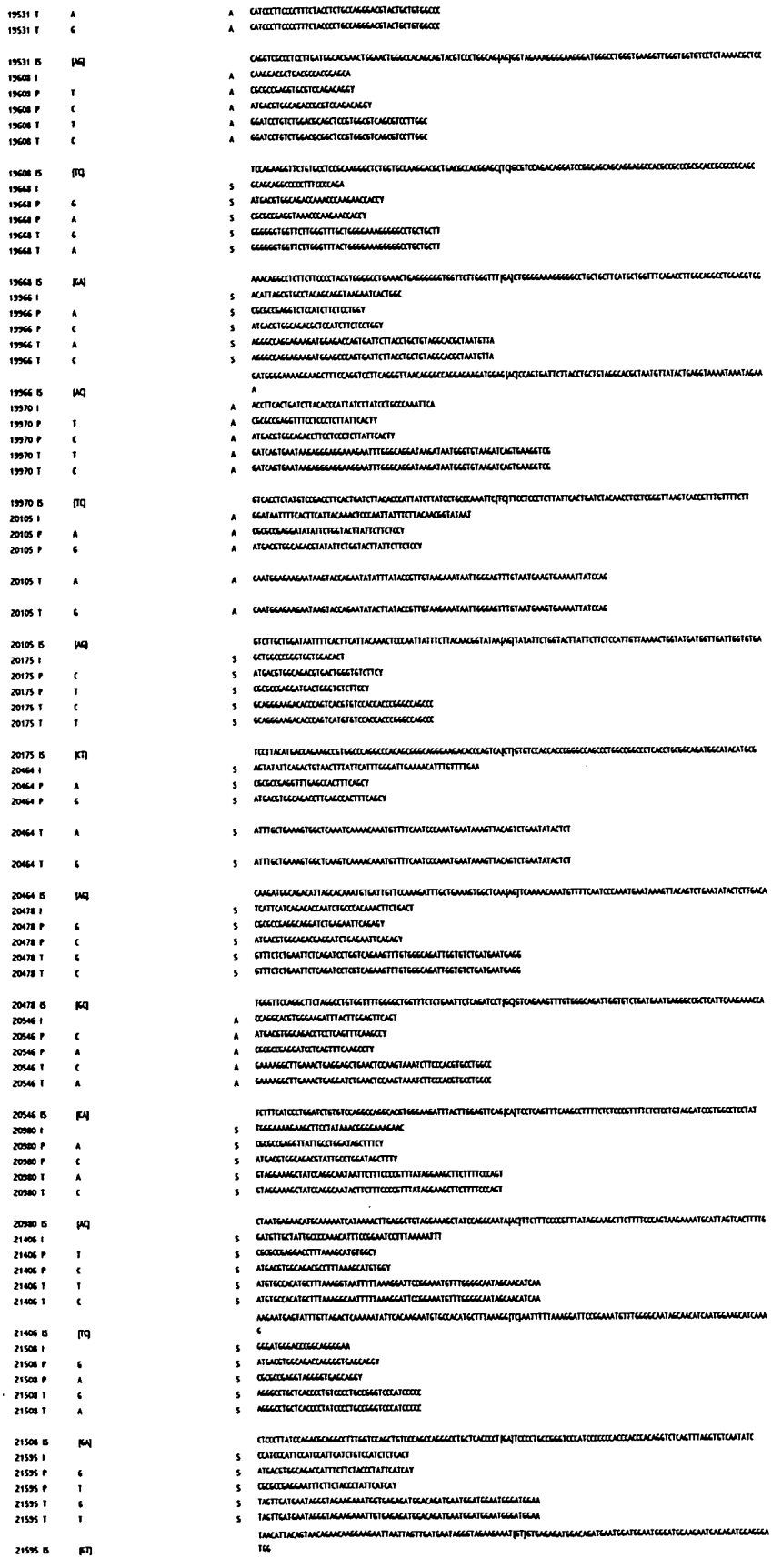
FIGURE 129F





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FIGURE 129F



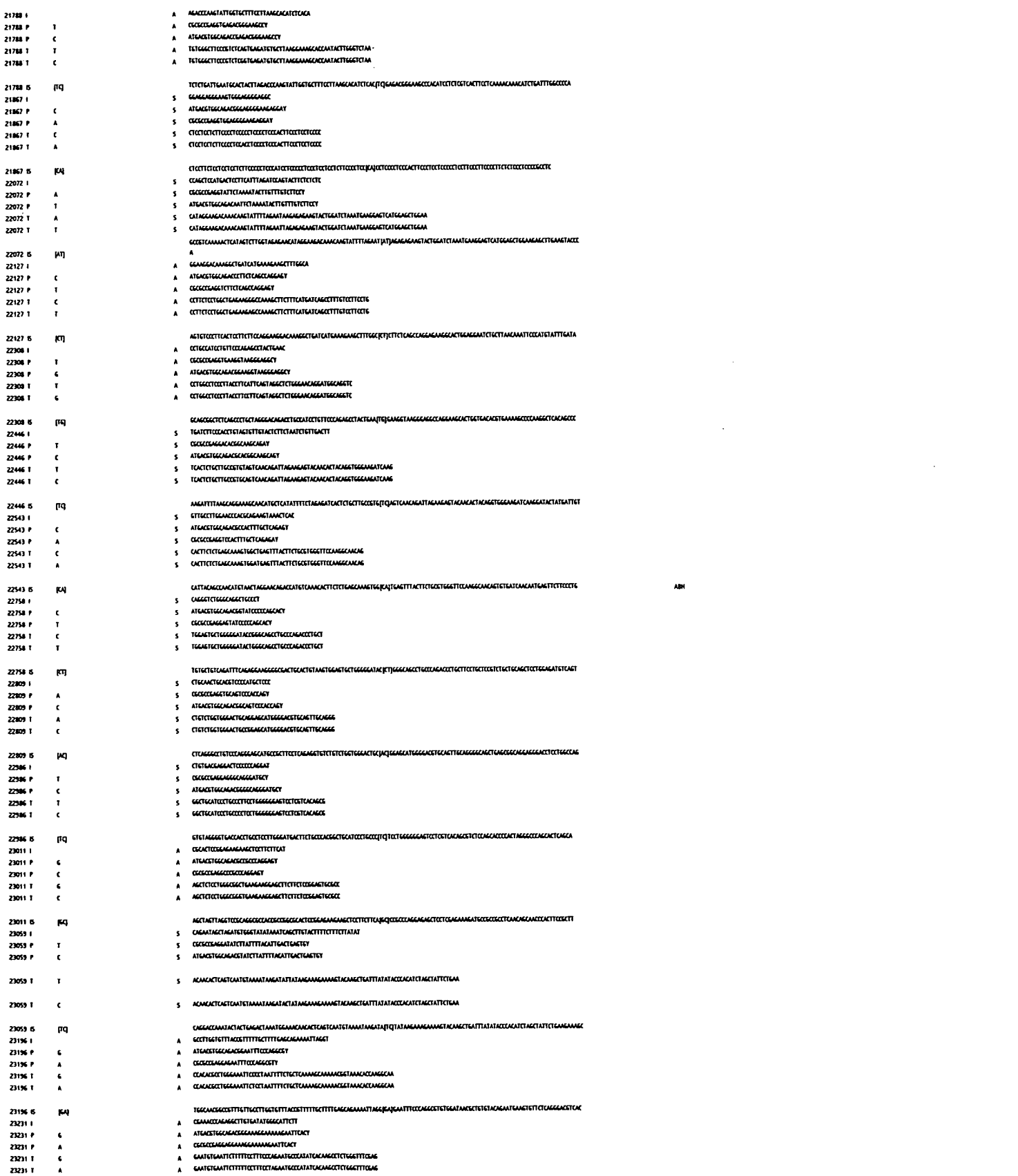


FIGURE 129F

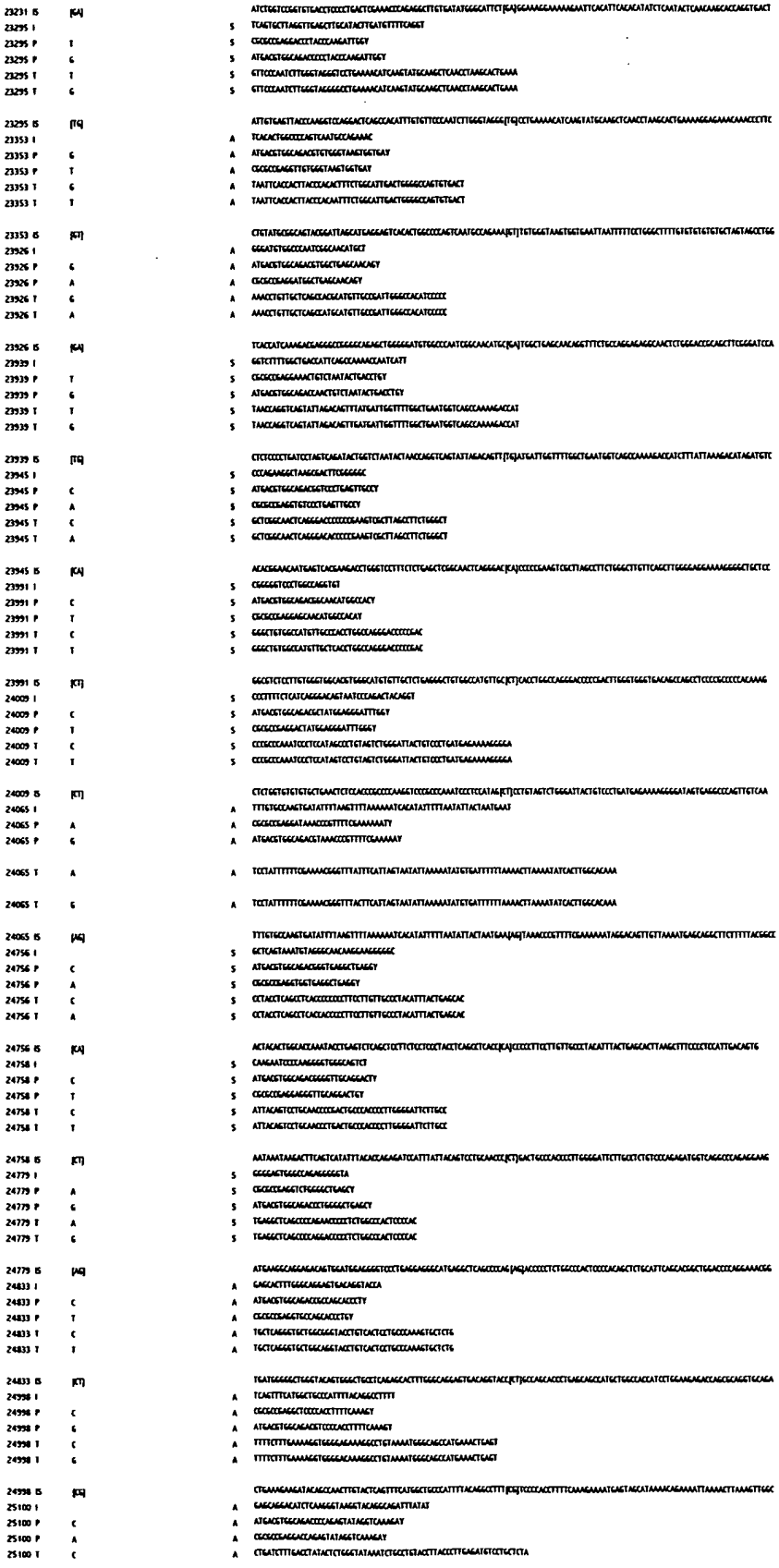


FIGURE 129F

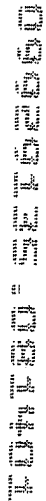


FIGURE 129F

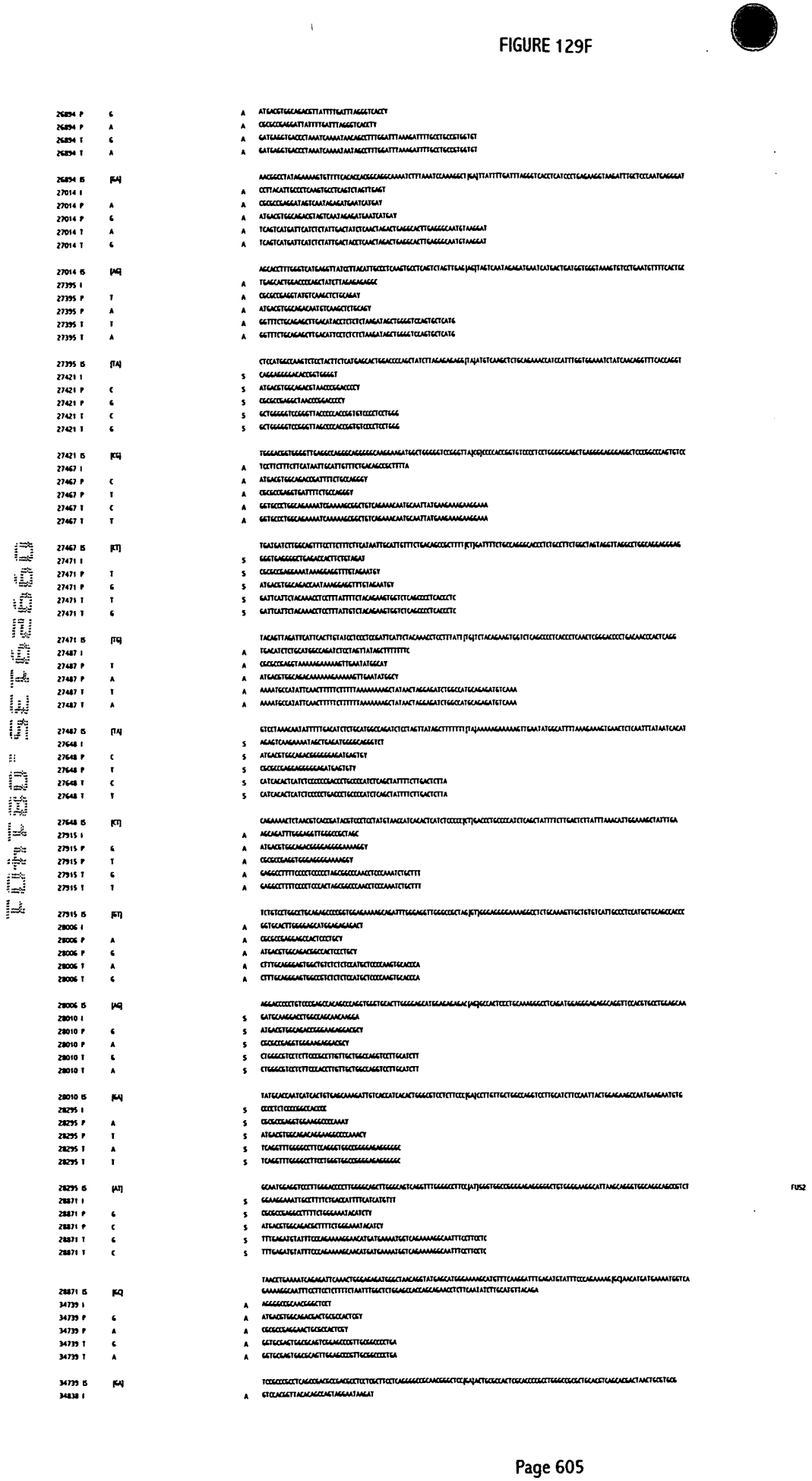
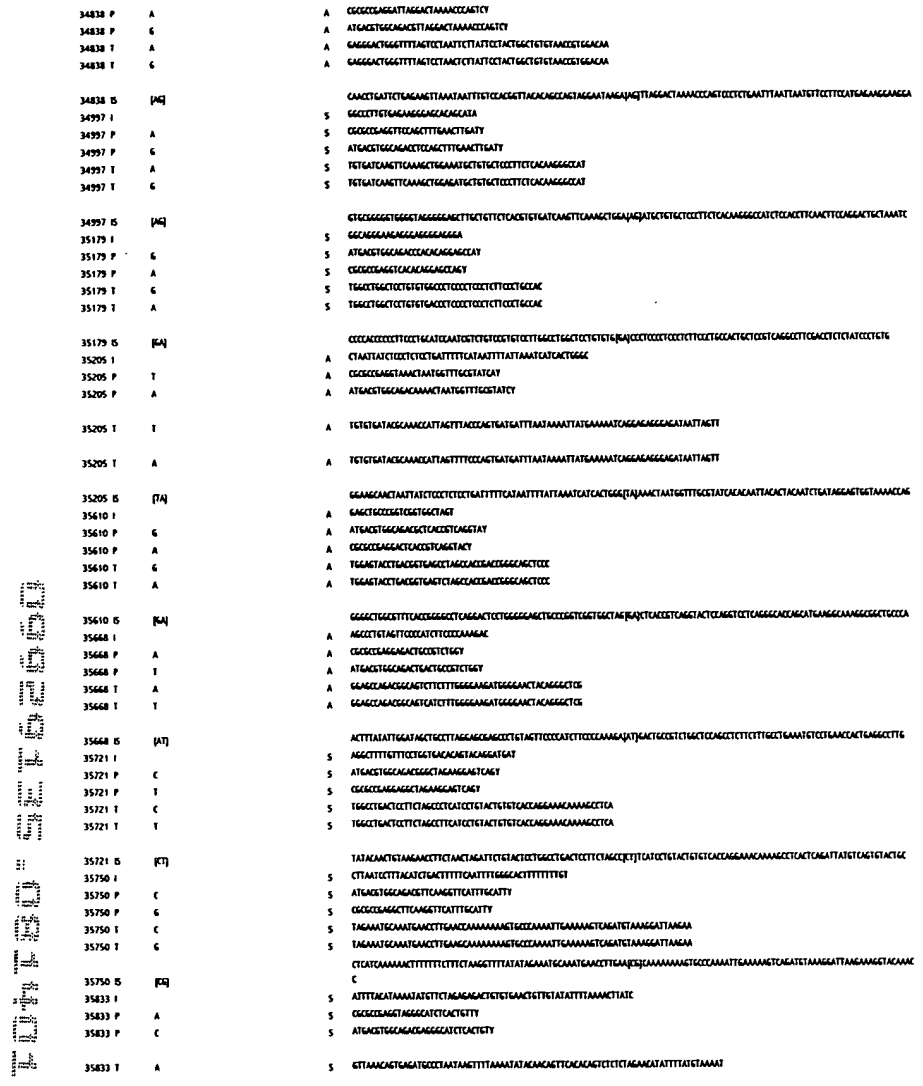
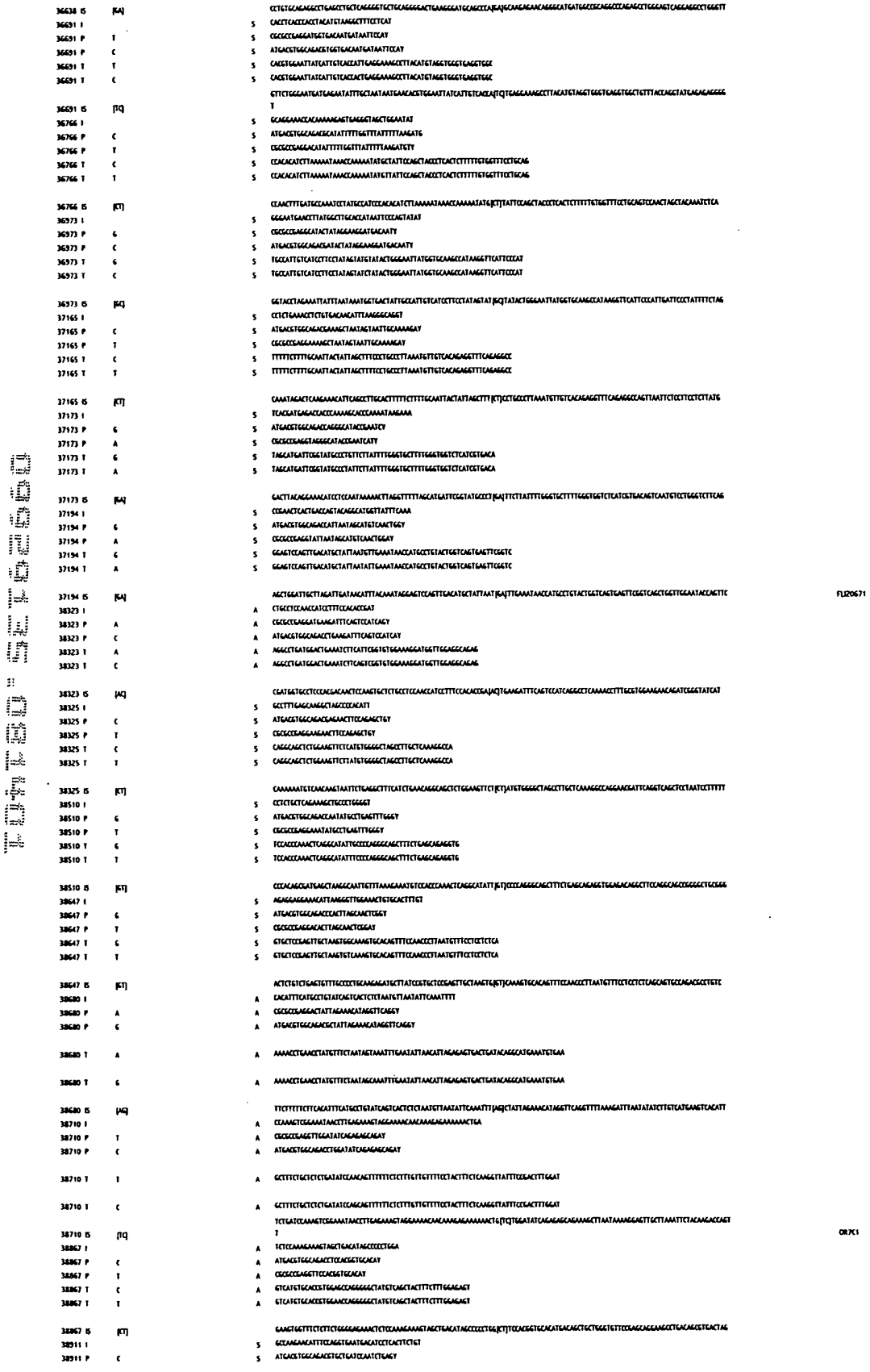
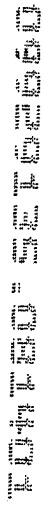


FIGURE 129F







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38911 T   G      S  CTCTCTCAGATTGGATCAGCACCAGAAGTGAGGATGTCATTCACCTGGAAATGTTCTTGGCAT

38911 IS  [CG]      TTTAGATTCCCATCTAGCAATGGCCTCTGCATGGAGTTTCTCTCTCAGATTGGATCACCAJCGJCAGAAGTGAGGATGTCATTCACCTGGAAATGTTCTTGGCATCCTGGGTGGGGTCTAGGGA
38931 I          S  CCCTCCTCCTCACTCTCTGCCCCTCGT
38931 P   G      S  ATGACGTGGCAGCACCCAGCCCTGTCTTCAY
38931 P   T      S  CGCGCCGAGGACAGCCCTGTCTTCAGY
38931 T   G      S  GAGACTGAAGACAGGGCTGTGCAGGGGCAGAGAGTGAGGAGCAGGGAG
38931 T   T      S  GAGACTGAAGACAGGGCTGTCGAGGGGCAGAGAGTGAGGAGCAGGGAG

38931 IS  [GT]      CAACTTGGTAAGAAGAAGATCTGGCCTCTTCTTGATGTAAGAGACTGAAGACAGGGCTGJGTJCGAGGGGCAGAGAGTGAGGAGCAGGGAGTGGCAAAGGCCAGGTCAAGATACAGAGAGA
                    GA
38986 I          S  AGGAGCAAACTTTTTCGTTTGTTTAATCTCACAAATTAAATAAAT
38986 P   G      S  ATGACGTGGCAGACCCTTTATGTGAAATGTTCCTTCY
38986 P   T      S  CGCGCCGAGGACTTTATGTGAAATGTTCCTTCY
38986 T   G      S  TGGTGAAGGAACATTTCACATAAAGTTTATTTAATTTGTGAGATTAAACAAACGAAAAAGGTTGGCTCCTCT
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38986 IS  [GT]      CACAGTCCTTTCTGTACAGGTTAAAAATGAAGTGCTGGTGAAGGAACATTTCACATAAAGJGTJTTTATTTAATTTGTGAGATTAAACAAACGAAAAAGGTTGGCTCCTCTACAGAAGTTTACA
39073 I          A  TCTTGTGCTTAGGCAGCTAATATTGTGTCAAAAACAATTCY
39073 P   G      A  ATGACGTGGCAGACGTTGTATATCTCCATTCTAAGCAY
39073 P   A      A  CGCGCCGAGGATTGTATATCTCCATTCTAAGCAAY
39073 T   G      A  GTTGTTGCTTAGAATGGAGATATACAACGAATTGTTTTTGACACAATATTAGCTGCCTAGCACAAGAAA
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39073 IS  [GA]      ATGACAGCTACTCATAATTTTCTTGTGCTTAGGCAGCTAATATTGTGTCAAAAACAATTCJGAJTTGTATATCTCCATTCTAAGCAACAACAACTACAAAAACTAACTCCTCAGCATTATACTT
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39092 P   C      S  ATGACGTGGCAGACGATGAGAAACGGATGCGY
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39092 T   C      S  TTTCCGCATCCGTTTCTCATCTGGATCCCCATTTACCCTCCCTGCGCACGG

39092 IS  [GC]      CCCACCCACTGAAGGTGTTGTTCTTTGCCCCCCTTTTTTTTCCCGCATCCGTTTCTCATJGCJTGGATCCCCATTTACCCTCCCTGCGCACGGCTCGCCCCCTCCTCCCAGGCTTTTACCTTCCA
39110 I          A  GGGTGCCTCCCGCCCGCACT
39110 P   G      A  ATGACGTGGCAGCAACTCAGCCTCCAGGY
39110 P   A      A  CGCGCCGAGGAAACTCAGCCTCCAGGY
39110 T   G      A  CGCGCCTGGAGGCTGAGTTCGTGCCGCCGCGAGGCACCCCC
39110 T   A      A  CGCGCCTGGAGGCTGAGTTTGTGCCGCCGCGAGGCACCCCC

39110 IS  [GA]      GGGTGGAATGAGGCCTTGGGCGATGAGCTGACCATAGGATGGGGGTGCCTCCCCCCCAC JGAJAACTCAGCCTCCAGGCCGCGTCATCTGGGTCTCGAAGGCCCTAAAGCAGTGGCCGCAGGG
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39178 T   C      A  AATTTGGAAAGGTCAGTTTTACTTGTTATGTGTCCAGGTGCATCTCACCTCAATATCCTCTACTTTGAT

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39204 P   T      A  CGCGCCGAGGTGTGGCTAGCGATCCY
39204 P   C      A  ATGACGTGGCAGACCGTGGCTAGCGATCCY
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39204 T   C      A  ACTGGGATCGCTAGCCACGAGCCGCCGGGAAACAAACATTTTCCTGGGA

39204 IS  [TC]      AGCCTCCGTGGAAGAAGCTGGGGTGACCTCCCAGCAAAAATGTTTGTTTCCCGCGGCTJTJCGTGGCTAGCGATCCCAGTCTTTCACTATTTGGTTCACGTGGGCAAAGAGTATTTATTTA
39230 I          S  GCAAGGCCTCTGCCTCTCTCTTTGCAACTATTTT
39230 P   T      S  CGCGCCGAGGATGTAACTCATTATTAATATCATTCTAATTAACY
39230 P   C      S  ATGACGTGGCAGACGTGTAACTCATTATTAATATCATTCTAATTAAY
39230 T   T      S  TAGAGTTAATTAGAATGATATTAATAATGAGTTACATAAATAGTTGCAAAGAGAGAGGCAGAGGCCAGAGGCCTTGCAA
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39230 IS  [TC]      GCAGCAAGCACTGGAATAGGTCATTAGAGTTAATTAGAATGATATTAATAATGAGTTACAJTCJAAATAGTTGCAAAGAGAGAGGCAGAGGCCTTGCAATAACCTCATTGTCACGTGTTAGT
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39245 I          A  CCTTGGCAGATCTAGCAGGTCTGGCCAA
39245 P   T      A  CGCGCCGAGGTACCCAGATTTGAGGGGY
39245 P   C      A  ATGACGTGGCAGACCACCCAGATTTGAGGGY
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39245 T   C      A  TTAACCCCTCAAATCTGGGTGTGGCCAGACCTGCTAGATCTGCCAAGGGA

39245 IS  [TC]      CATCTTCTTCATGTAGATAAAACAGTCCCATTCCCTTGGCAGATCTAGCAGGTCTGGCCAJTCJACCCAGATTTCAGCGGTTAACAGGCCATCATAGTATGCAGTTATTTCTGGGACTTCACAC
39294 I          A  GGTGAAAGGCTGTCTTAGAATGTAGATTAACCAGCACACTCTTC
39294 P   T      A  CGCGCCGAGGTAAAGGAAATAAAGTGACTTTGGY
39294 P   A      A  ATGACGTGGCAGACAAAGGAAATAAAGTGACTTTGGY
39294 T   T      A  TTTTCCAAAGTCACTTTATTTCCTTTAAAGAGTGTGCTGGTTAATCTACATTCTAAGACAGCCTTTCACCAC
39294 T   A      A  TTTTCCAAAGTCACTTTATTTCCTTTAAAGAGTGTGCTGGTTAATCTACATTCTAAGACAGCCTTTCACCAC

39294 IS  [TA]      GCTGCCTTATATTTAGTGGTGAAAGGCTGTCTTAGAATGTAGATTAACCAGCACACTCTTJTAJAAAGGAAATAAAGTGACTTTGGAAAATCACGCAGACTTCCGCAAACATTTAAATTTTTGT
39296 I          S  CGCCTCTCCTTCAGCCCCAGGCA
39296 P   A      S  CGCGCCGAGGTCTGGGAGCTACGACY
39296 P   G      S  ATGACGTGGCAGACCCTGGGAGCTACGACY
39296 T   A      S  CCCGGTCGTAGCTCCCAGAGCCTGGGGCTGAAGCAGAGGCCGG
39296 T   G      S  CCCGGTCGTAGCTCCCAGGGCCTGGGGCTGAAGCAGAGGCCGG

39296 IS  [AG]      AACTCTGGCCCCGGTCACCACTGGGCTCAGAGCCCCACTGCATCCCGGTCGTAGCTCCCAGJAGJGCCTGGGGCTGAAGCAGAGGCGGGAAGCCAGCCTCACTCCCAGCACCCACAAACCCAGGT
39298 I          S  GCAAGCCTCACTGCAGCAGGCAGATGT
39298 P   C      S  ATGACGTGGCAGACGGTCTGTTCCATGGAGGY
39298 P   T      S  CGCGCCGAGGAGTCTGTTCCATGGAGGY
39298 T   C      S  CTCGCCTCCATGGAACAGACCATCTGCCTGCTGCAGTGAGGCTTGCCT
39298 T   T      S  CTCGCCTCCATGGAACAGACTCATCTGCCTGCTGCAGTGAGGCTTGCCT

39298 IS  [CT]      GGTGAAGGCCAGGAATTCTGTGCCCAGCGGCACAAGCCTCCTCGCCTCCATGGAACAGACJCTJCATCTGCCTGCTGCAGTGAGGCTTGCCTCAGCAAAGCAGGCCTGGCTGCAGGGCTGACTT
39311 I          S  GCCGAGCCCACAGGCCTCCTTTATTACCT
39311 P   T      S  CGCGCCGAGGAAAGTGGCTCCTTTGGY
39311 P   C      S  ATGACGTGGCAGACGAAGTGGCTCCTTTGGY
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39311 IS  [TC]      ACAATCGAGAGATCAGATTATTTGGGGAGAAAGTGGAAGGAGCCAGCCAAAGGAGCCACTTJTCJGGCTAATAAAGCAGGCCTGTGGGCTCGGCACCCGGCAGCCTTTCAGAGGGTCCAGTCGTTGA
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FIGURE 129F

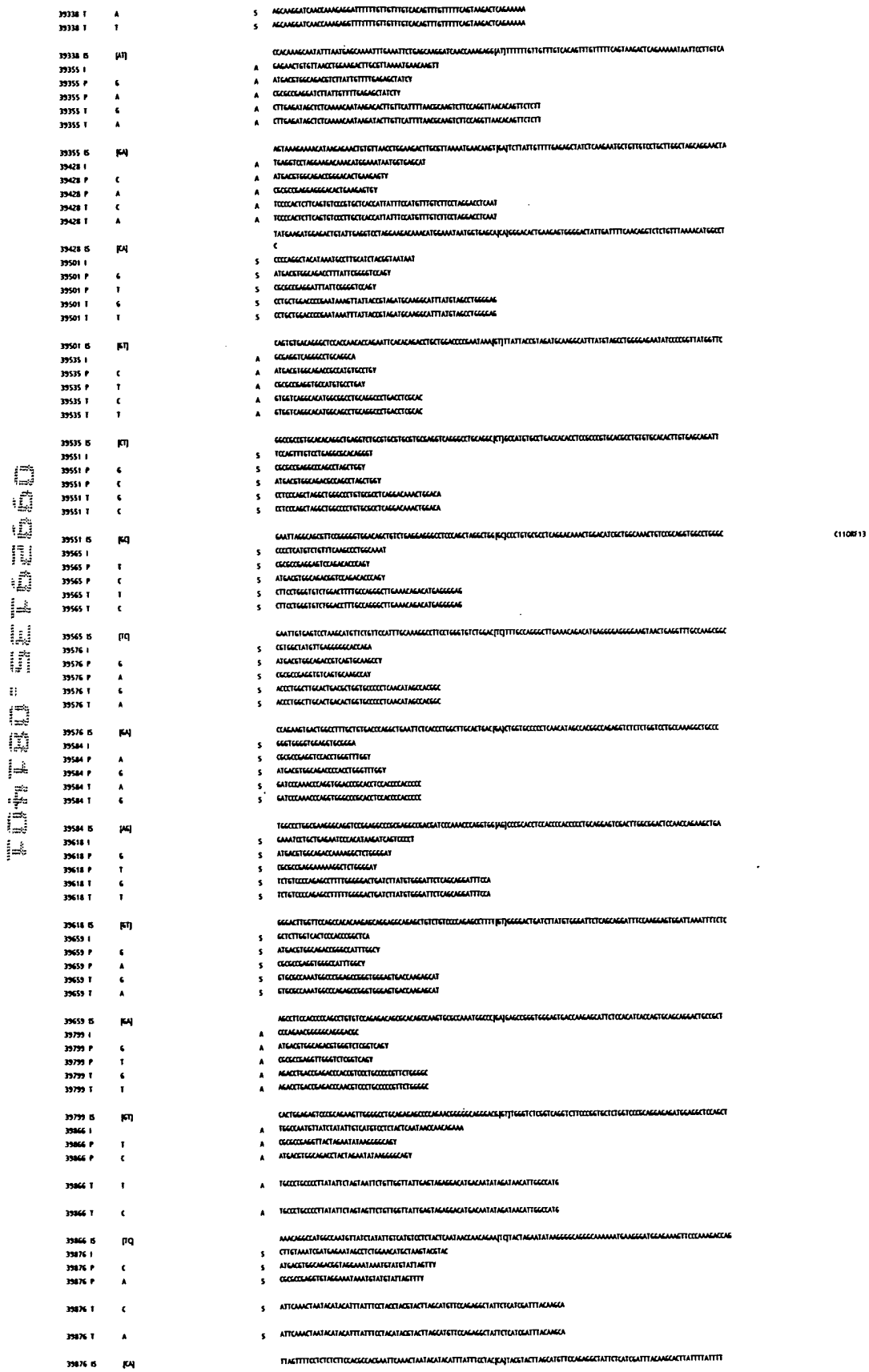


FIGURE 129F

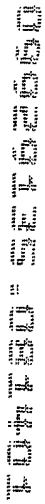
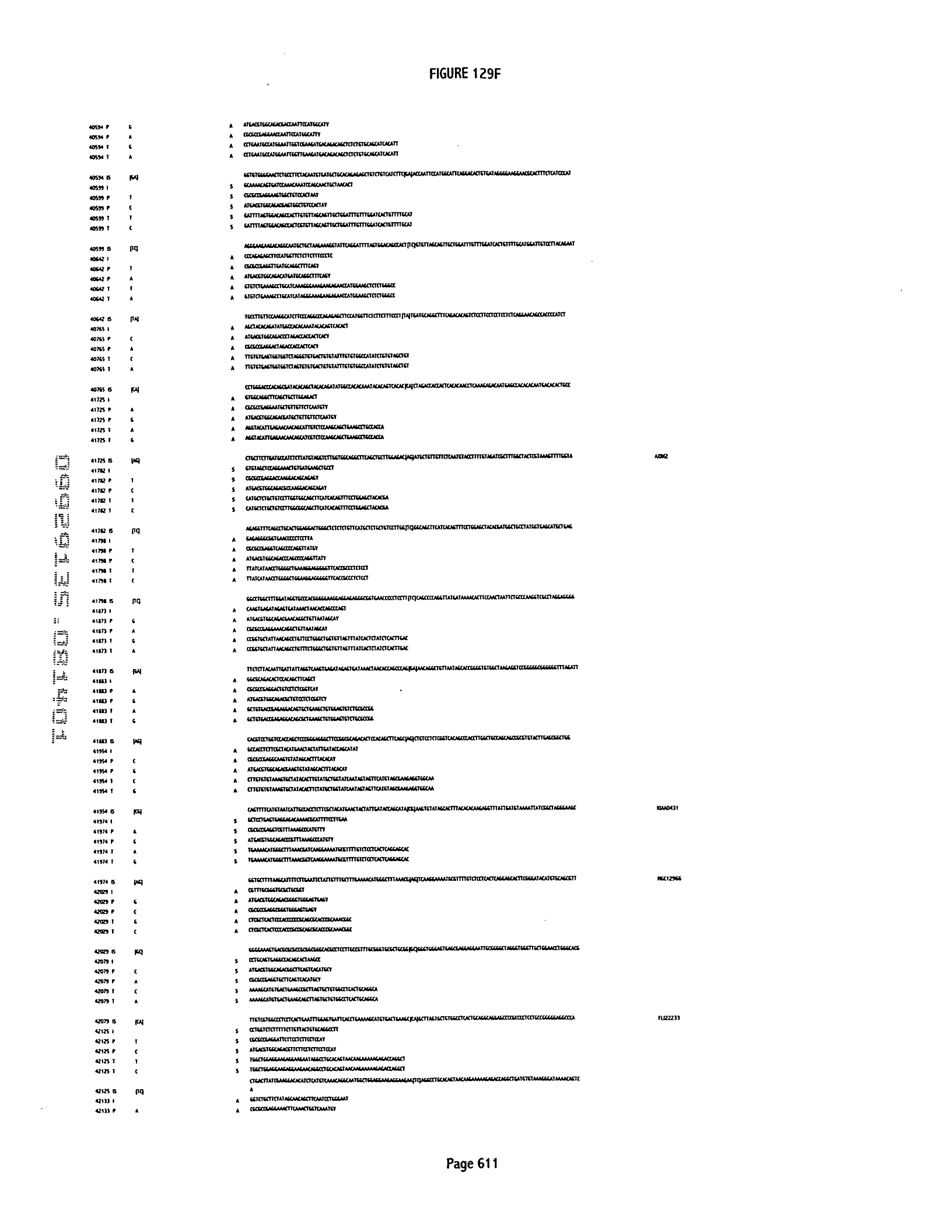


FIGURE 129F



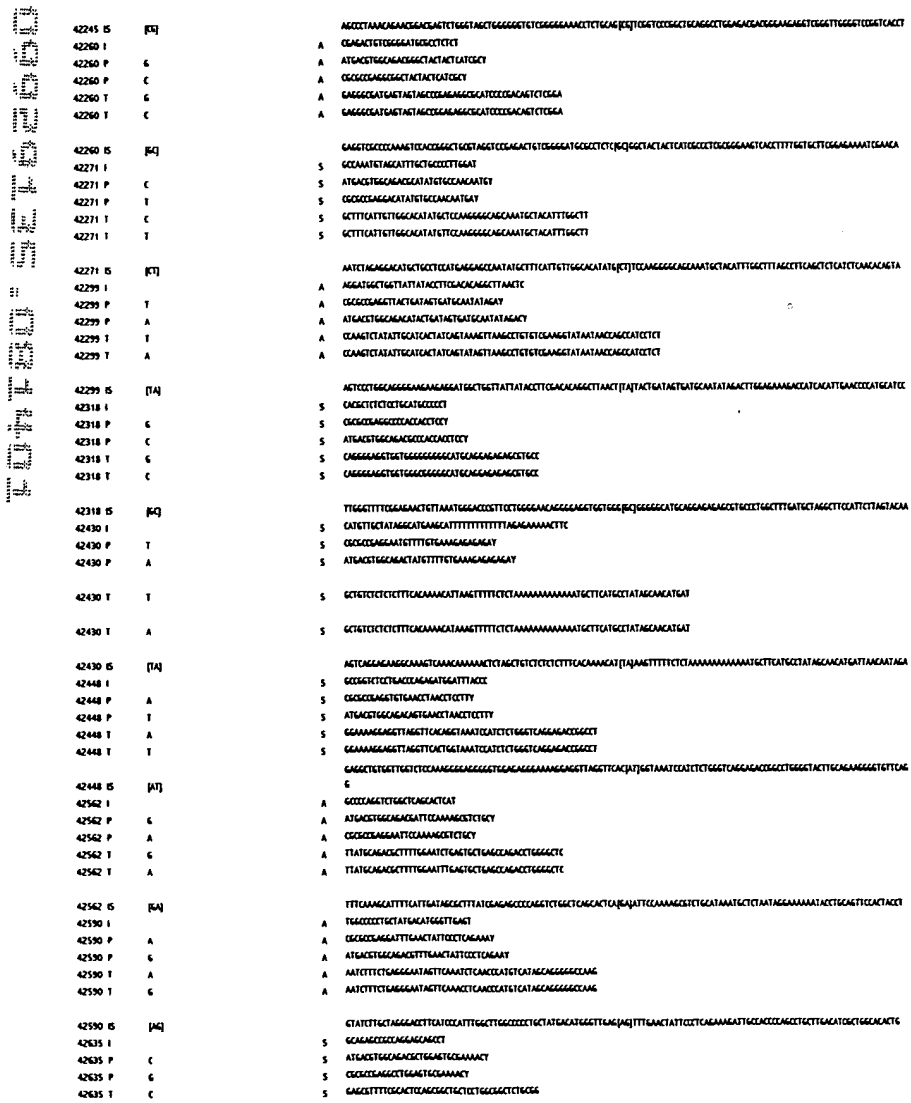


FIGURE 129F

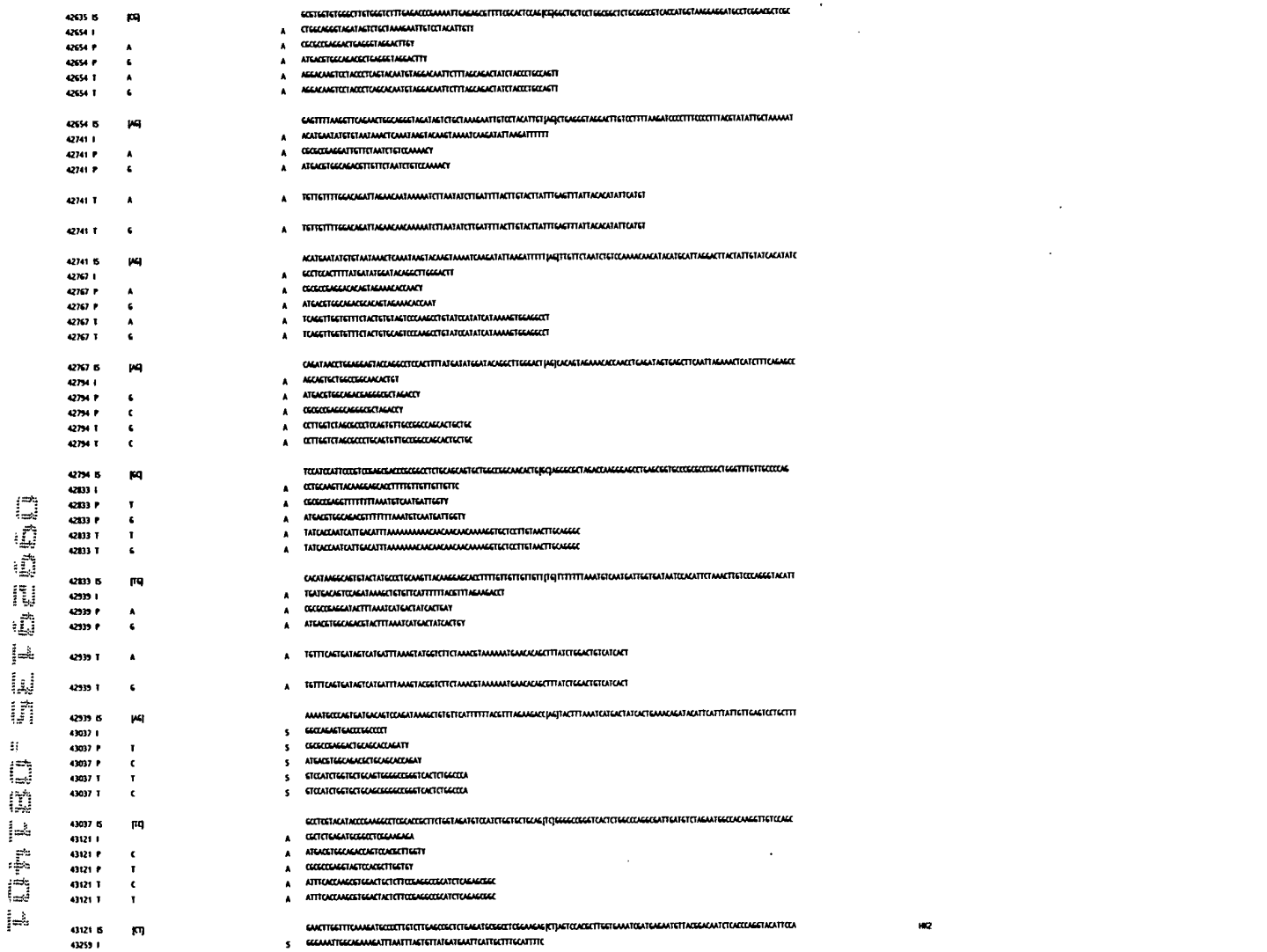
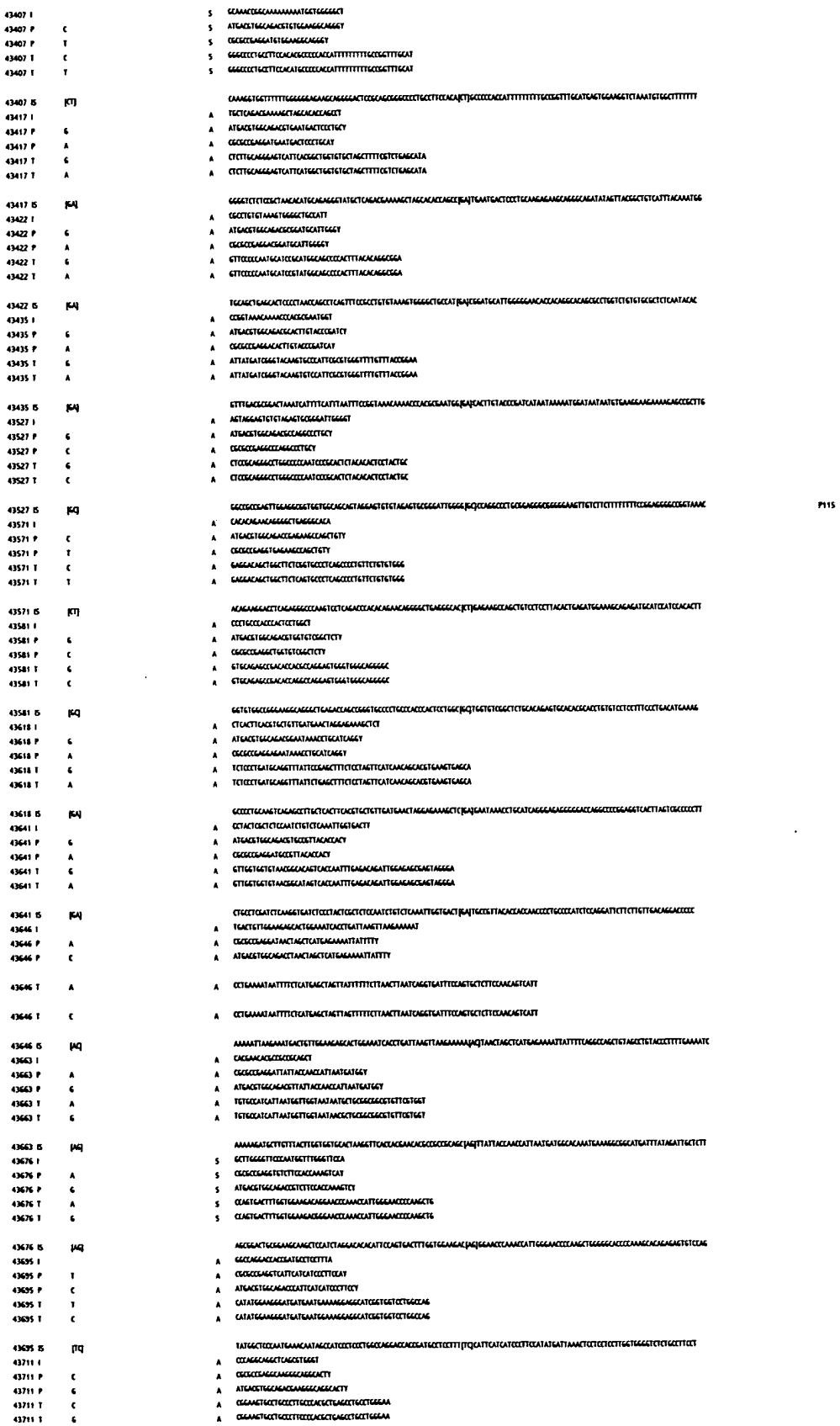
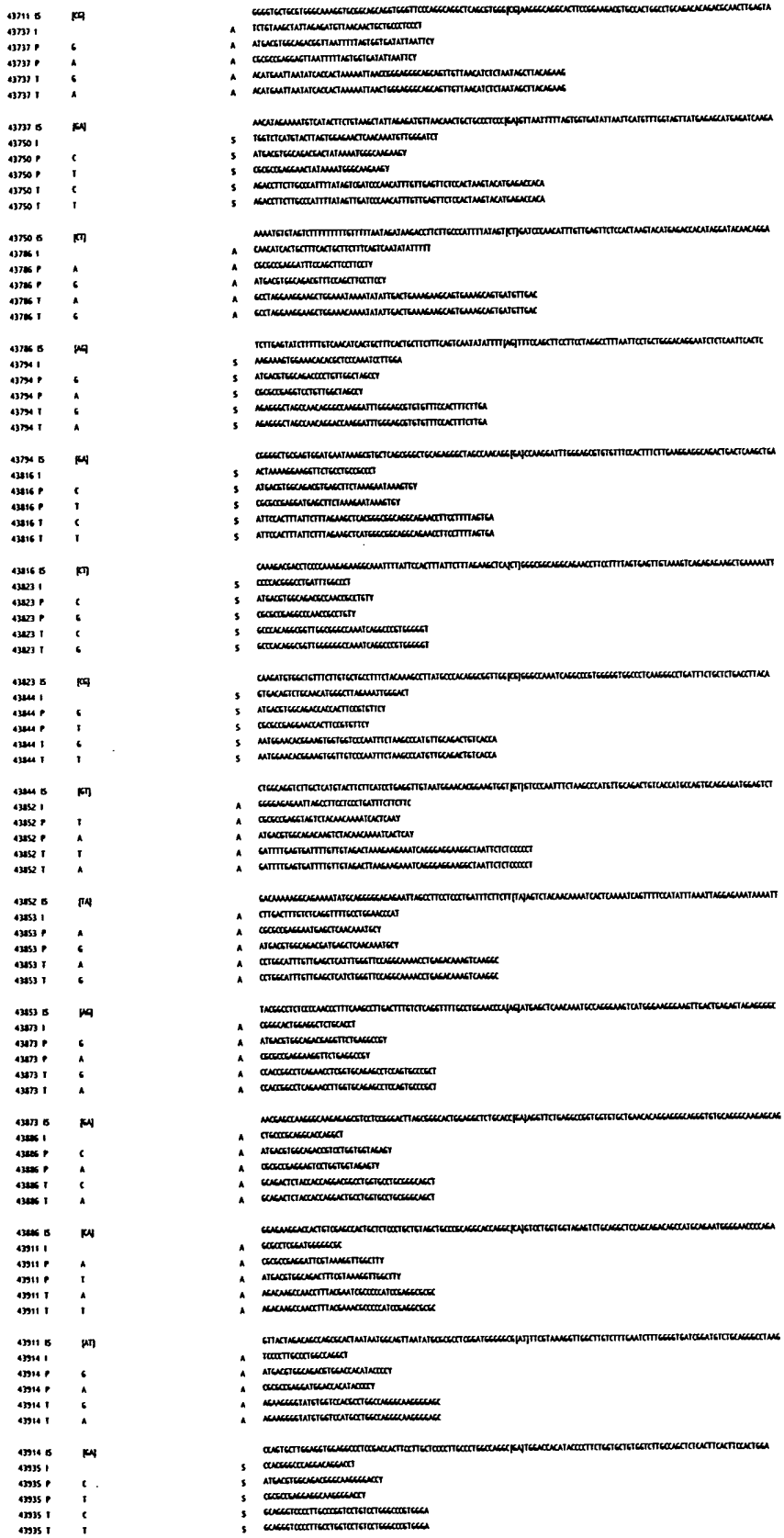
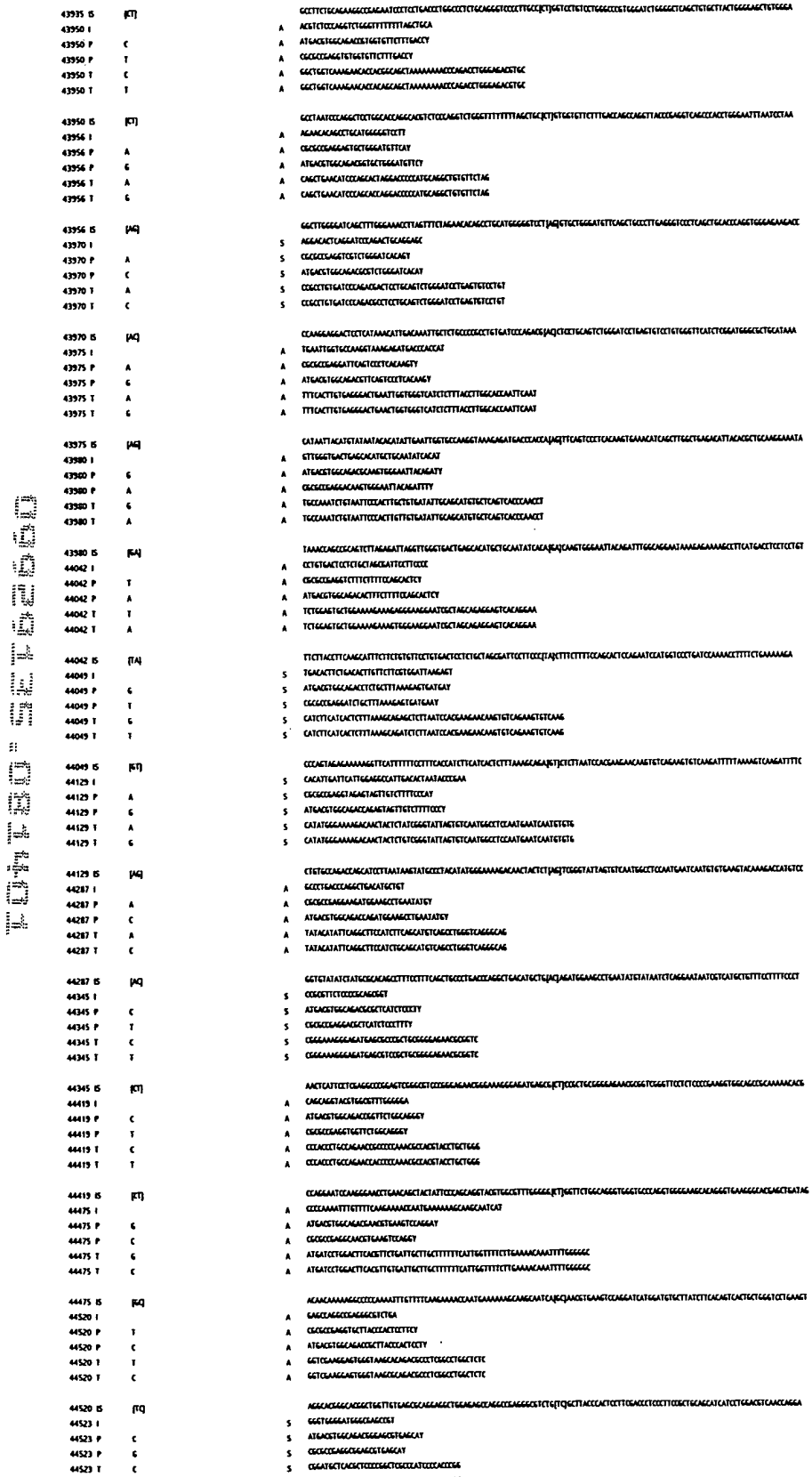


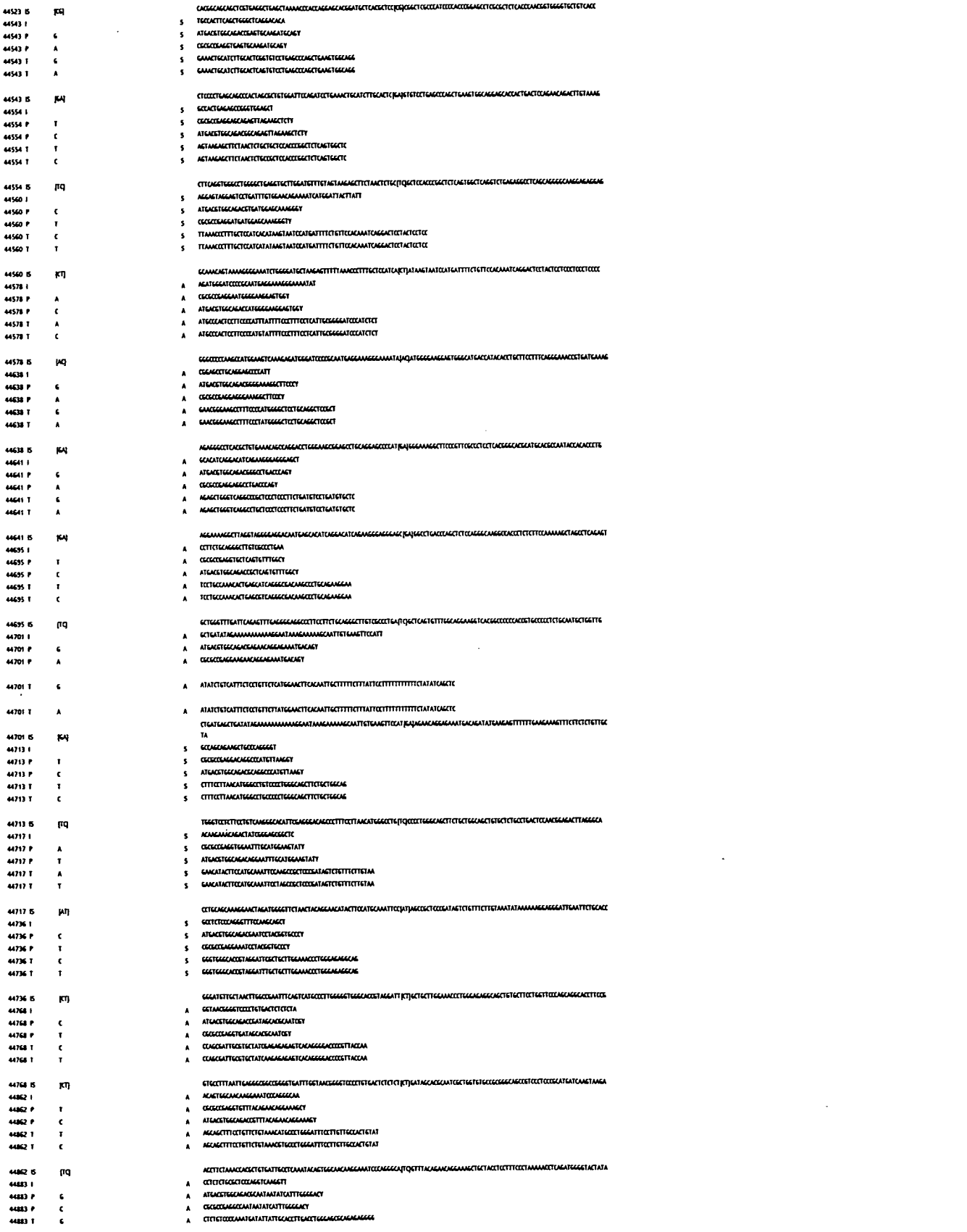
FIGURE 129F

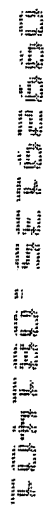


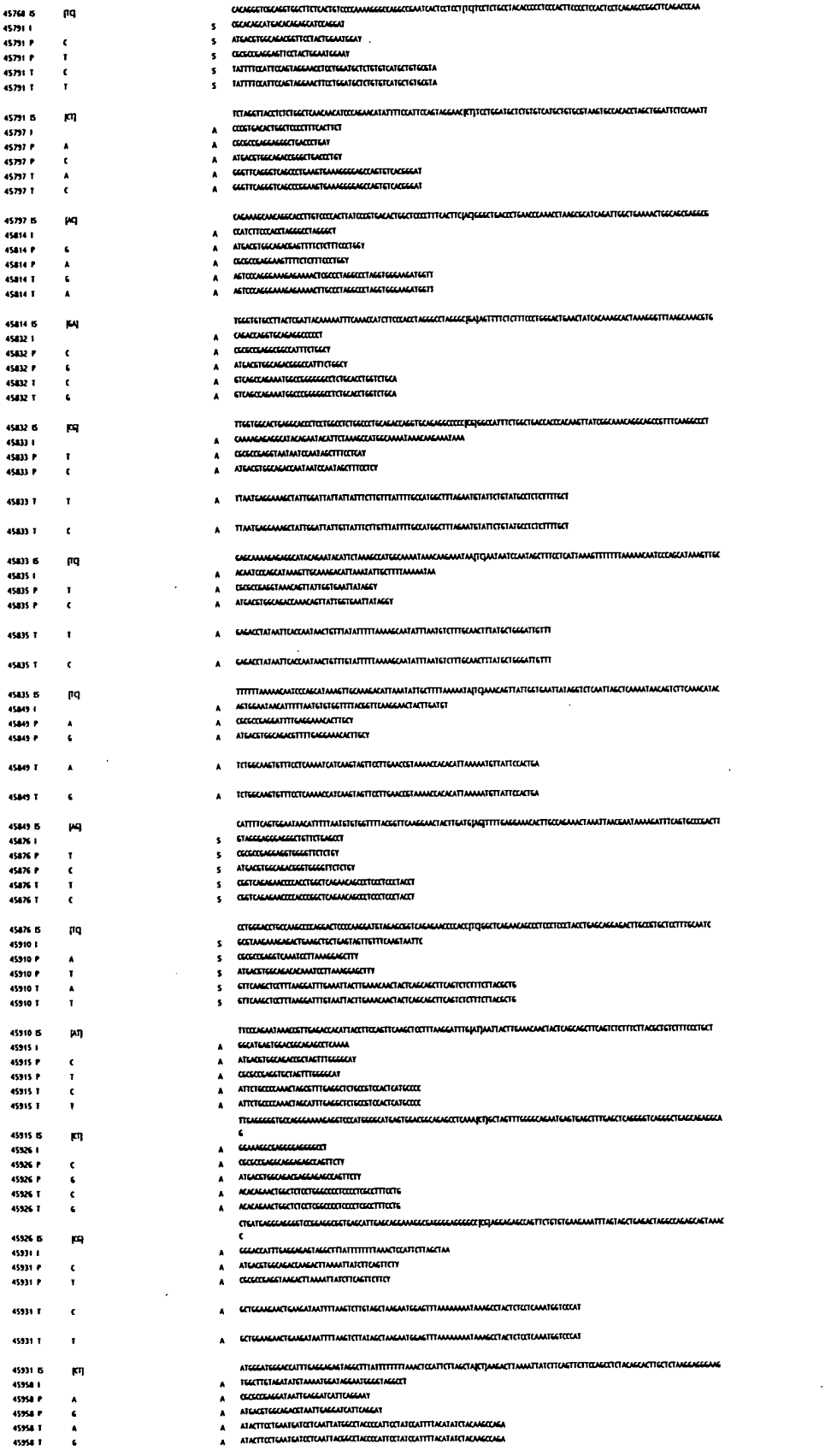
Sequence Listing











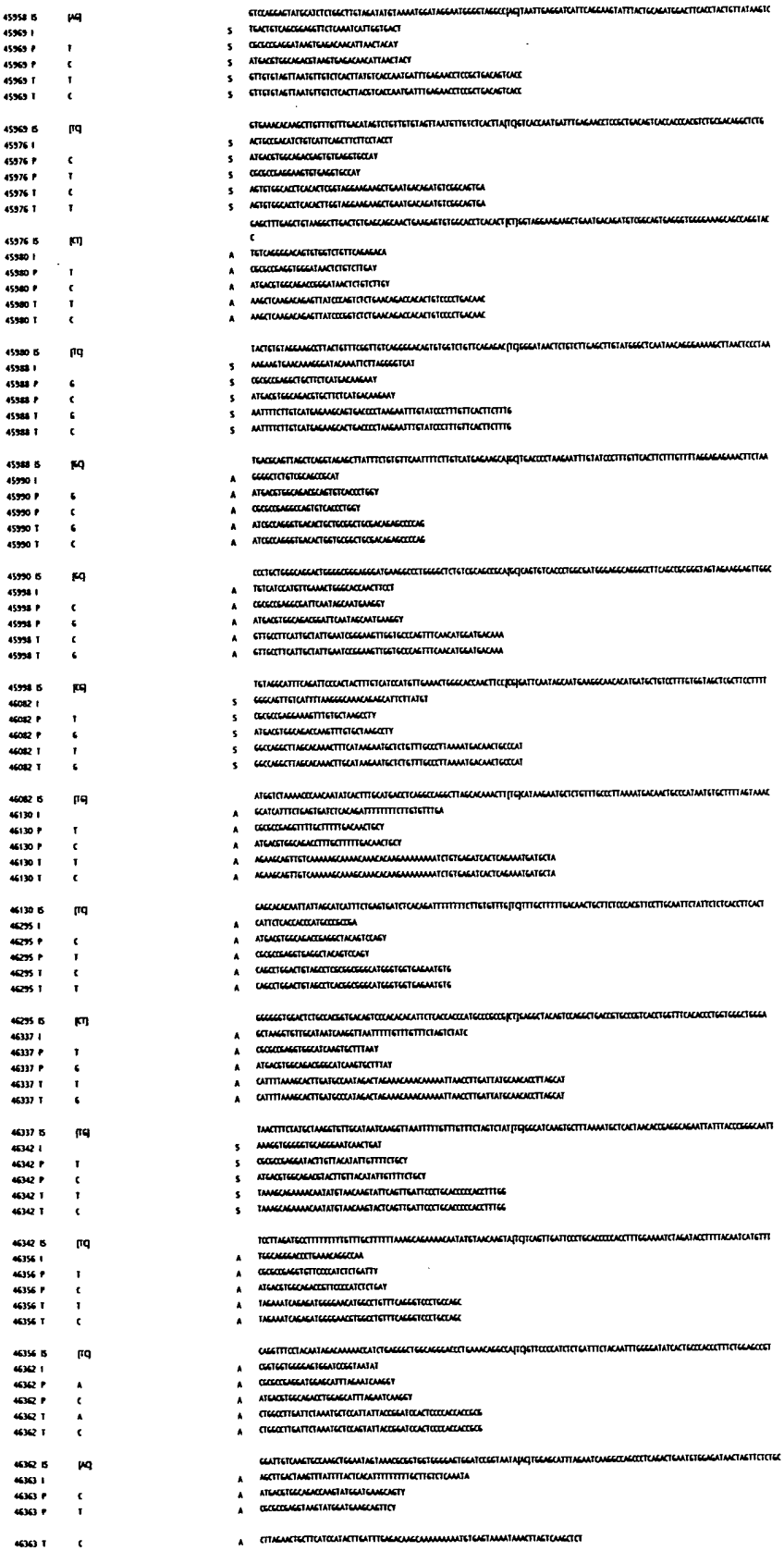


FIGURE 129F

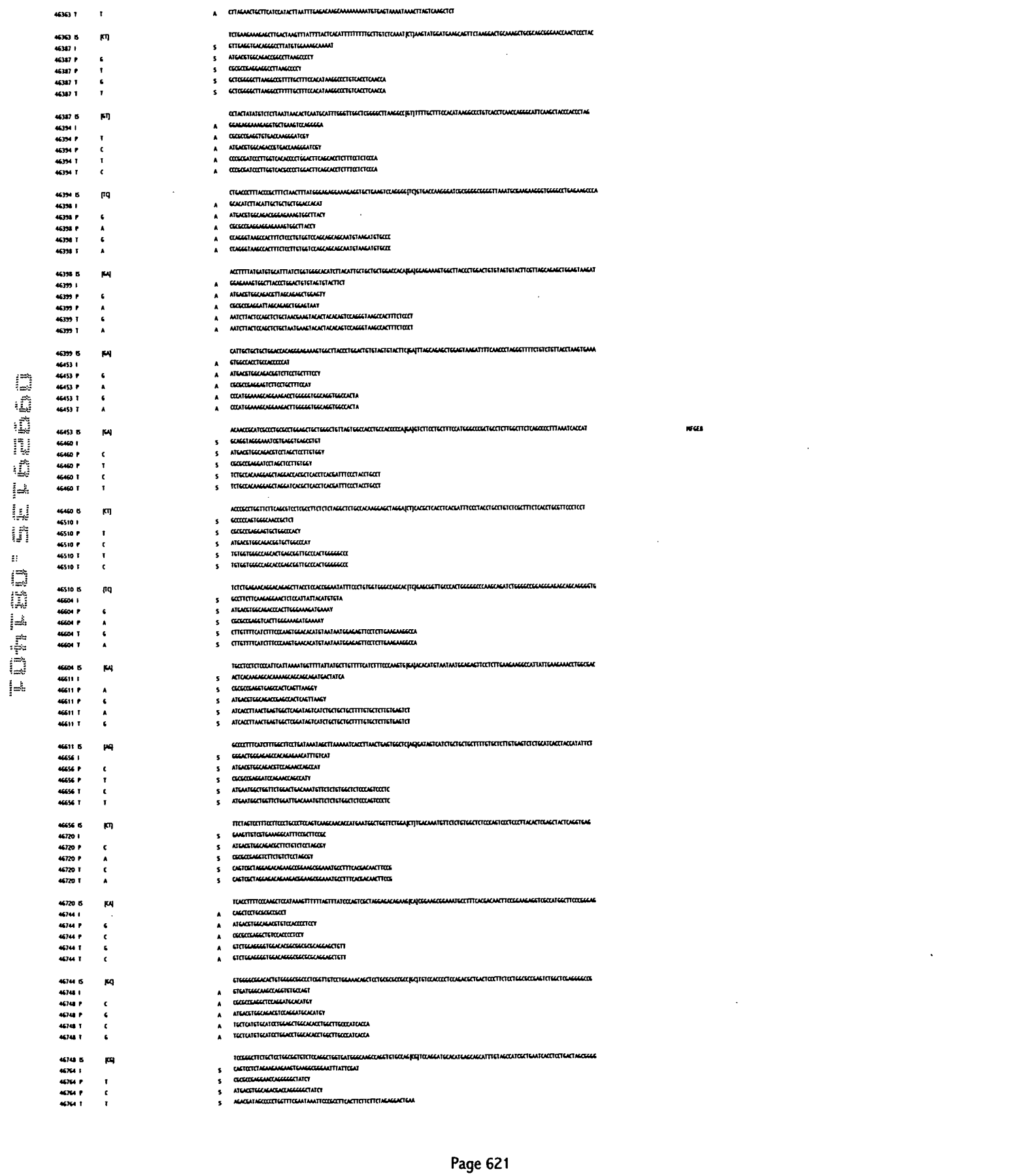
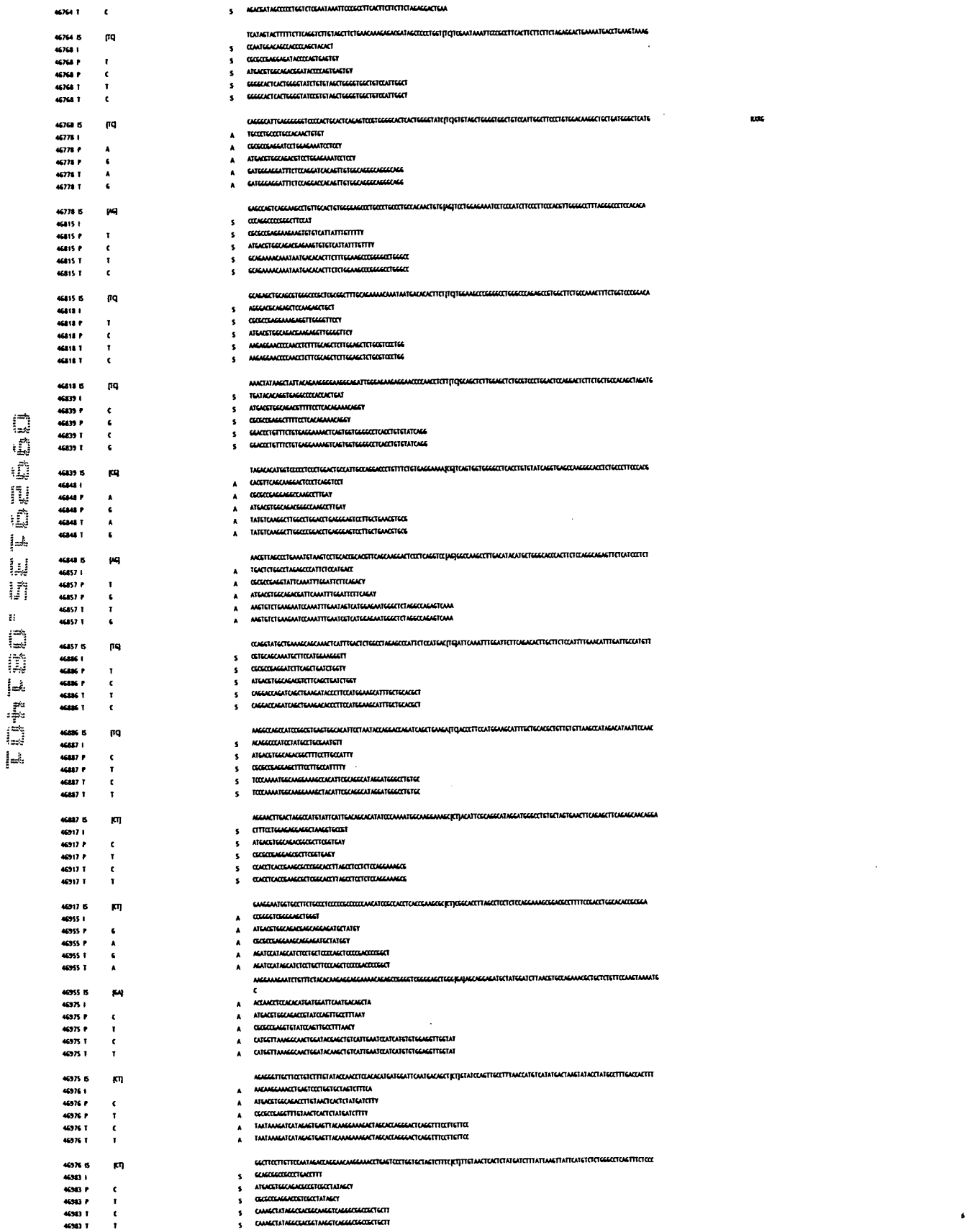
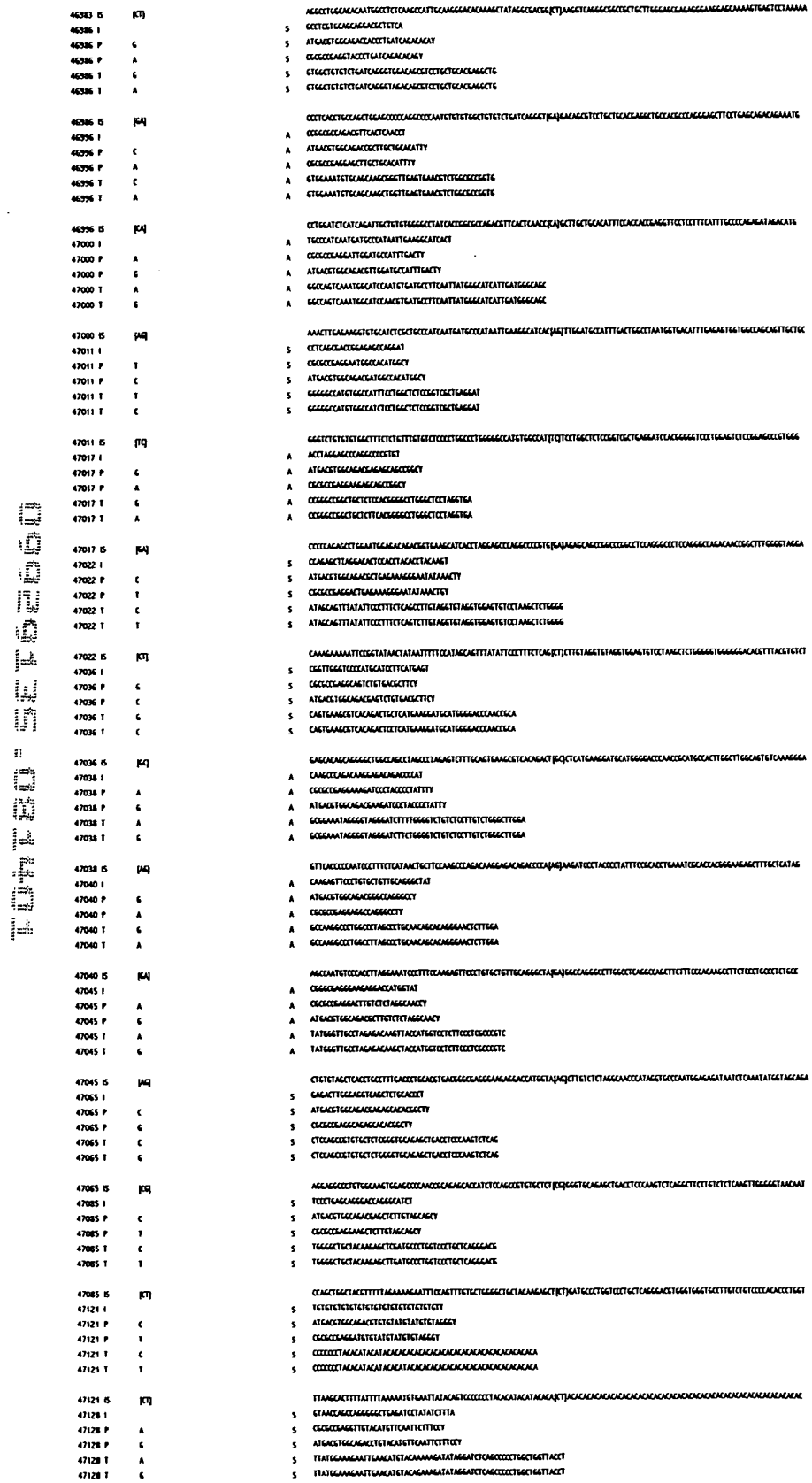


FIGURE 129F





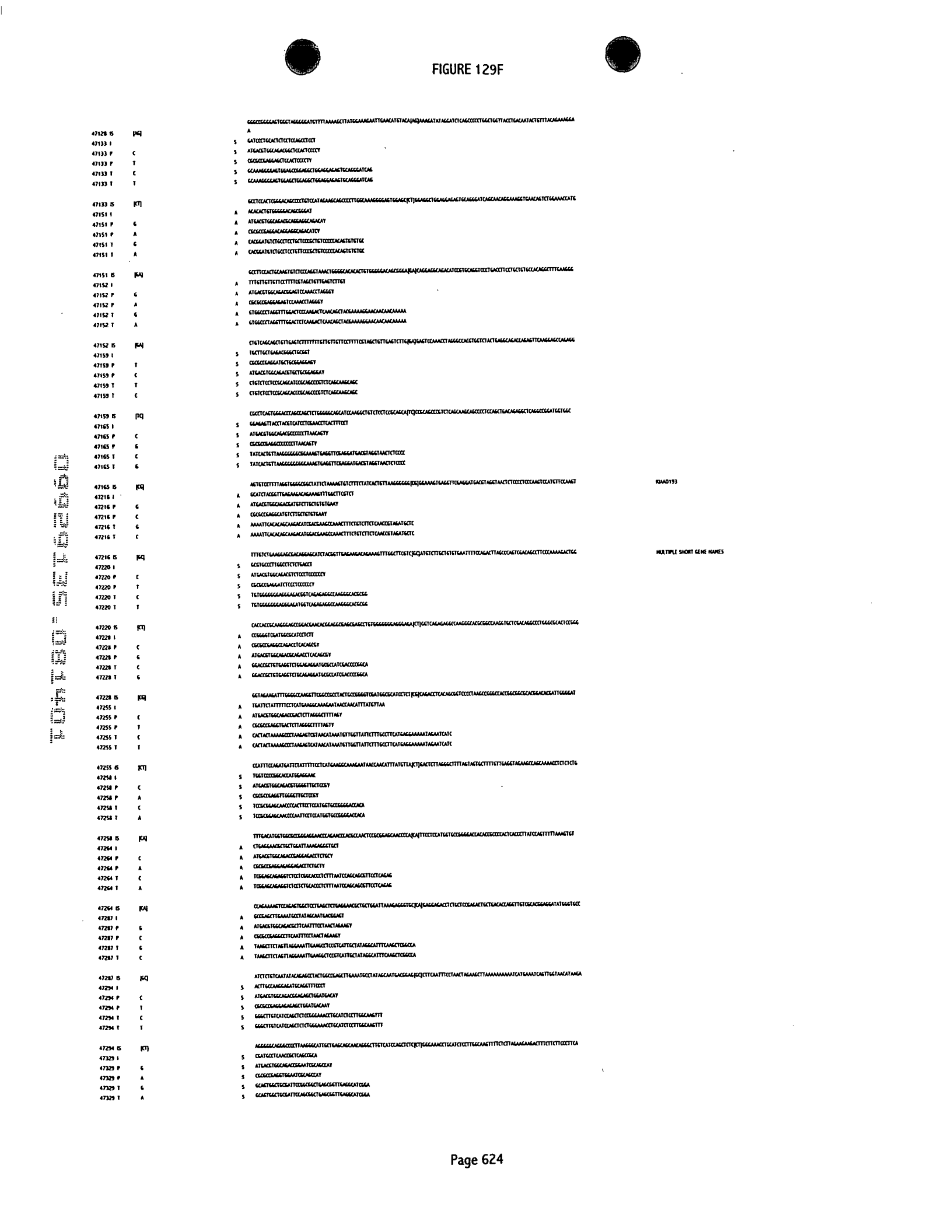
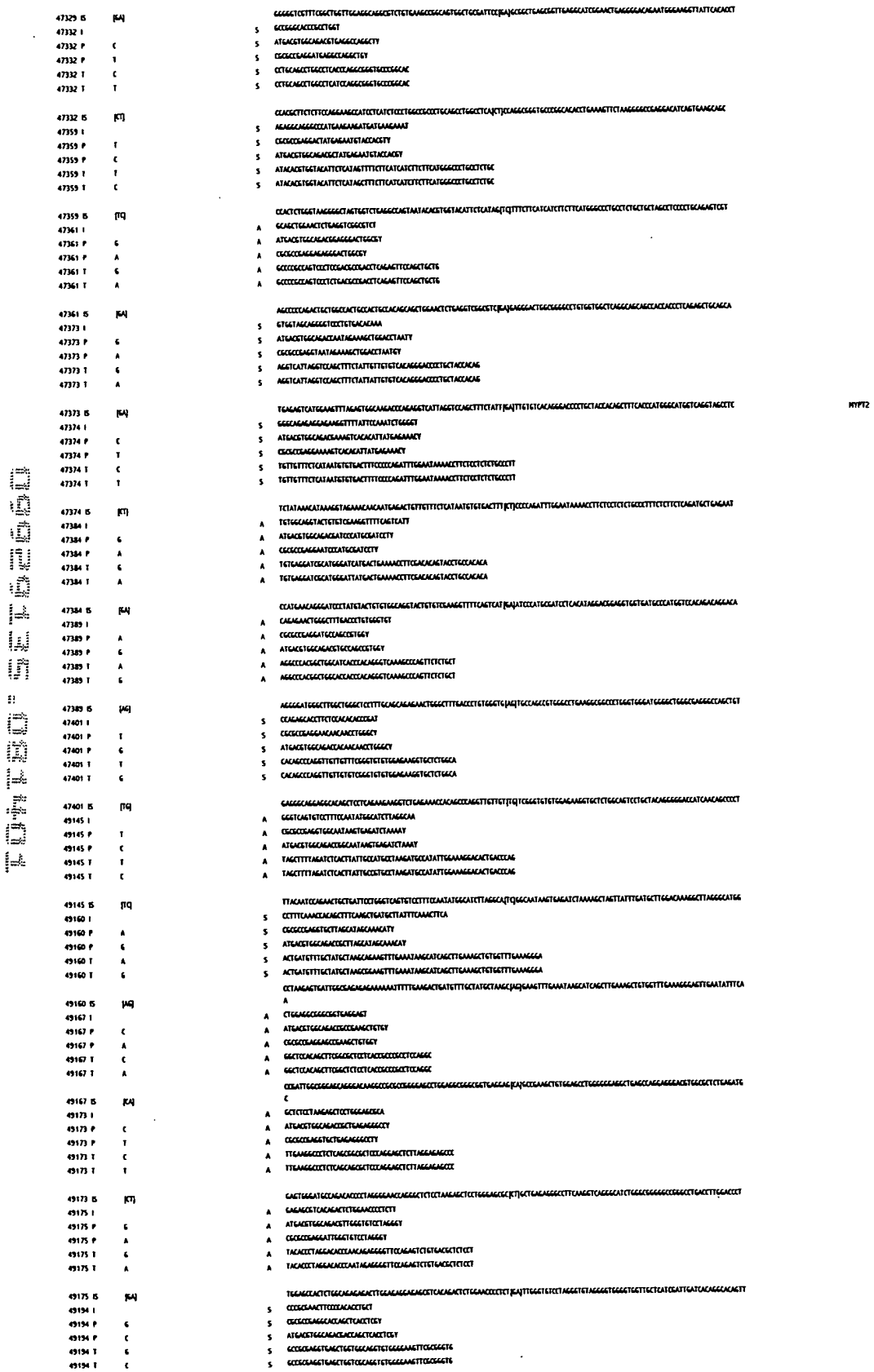

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47133 P C
47133 P T
47133 T C
47133 T T
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47151 T A
47151 IS [GA]
47152 I
47152 P G
47152 P A
47152 T G
47152 T A
47152 IS [GA]
47159 I
47159 P T
47159 P C
47159 T T
47159 T C
47159 IS [TC]
47165 I
47165 P C
47165 P G
47165 T C
47165 T G
47165 IS [CG]
47216 I
47216 P G
47216 P C
47216 T G
47216 T C
47216 IS [GC]
47220 I
47220 P C
47220 P T
47220 T C
47220 T T
47220 IS [CT]
47228 I
47228 P C
47228 P G
47228 T C
47228 T G
47228 IS [CG]
47255 I
47255 P C
47255 P T
47255 T C
47255 T T
47255 IS [CT]
47258 I
47258 P C
47258 P A
47258 T C
47258 T A
47258 IS [CA]
47264 I
47264 P C
47264 P A
47264 T C
47264 T A
47264 IS [CA]
47287 I
47287 P G
47287 P C
47287 T G
47287 T C
47287 IS [GC]
47294 I
47294 P C
47294 P T
47294 T C
47294 T T
47294 IS [CT]
47329 I
47329 P G
47329 P A
47329 T G
47329 T A
MULTIPLE SHORT GENE NAMES

FIGURE 129F



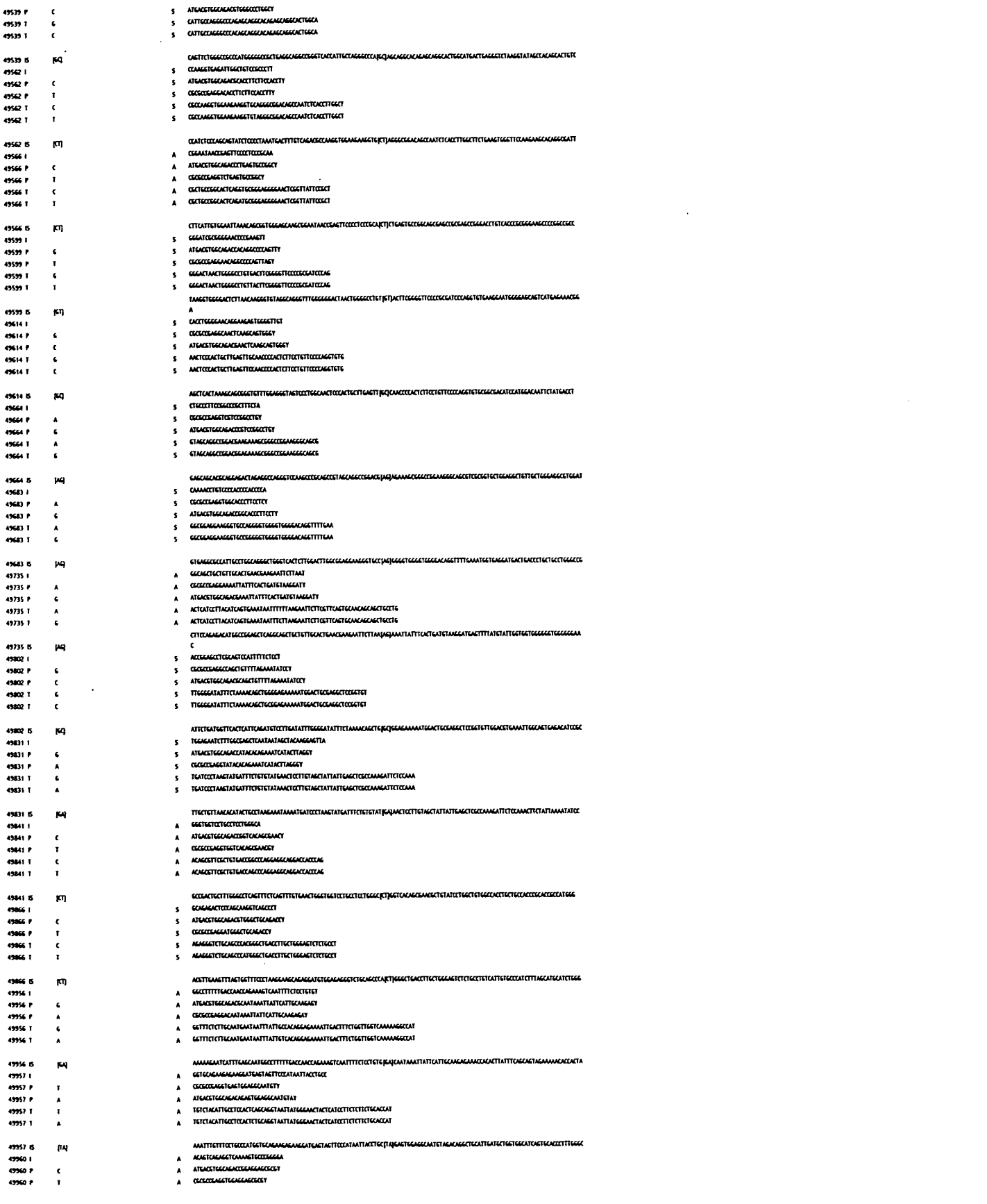
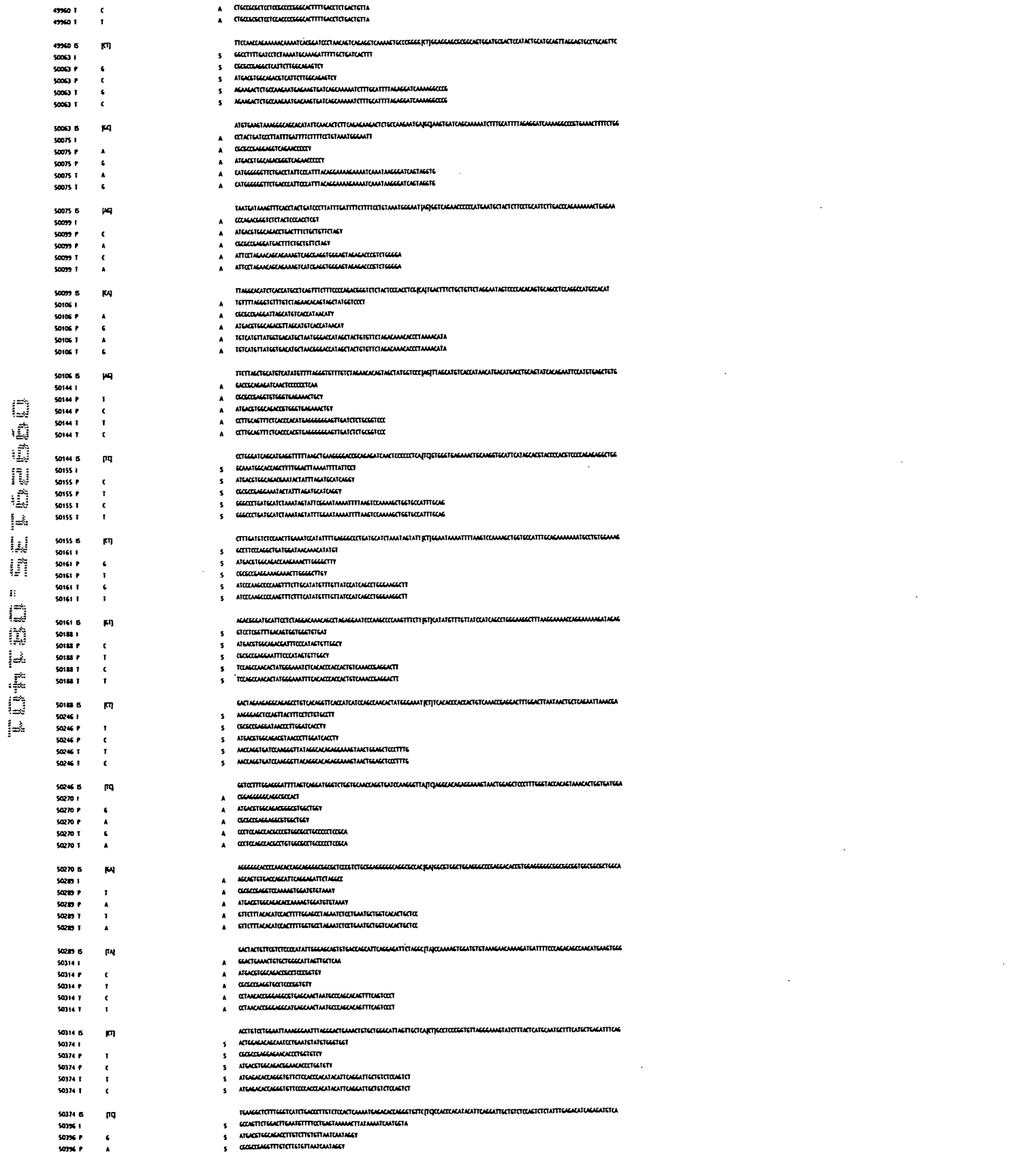
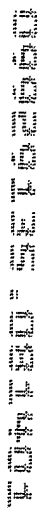


FIGURE 129F





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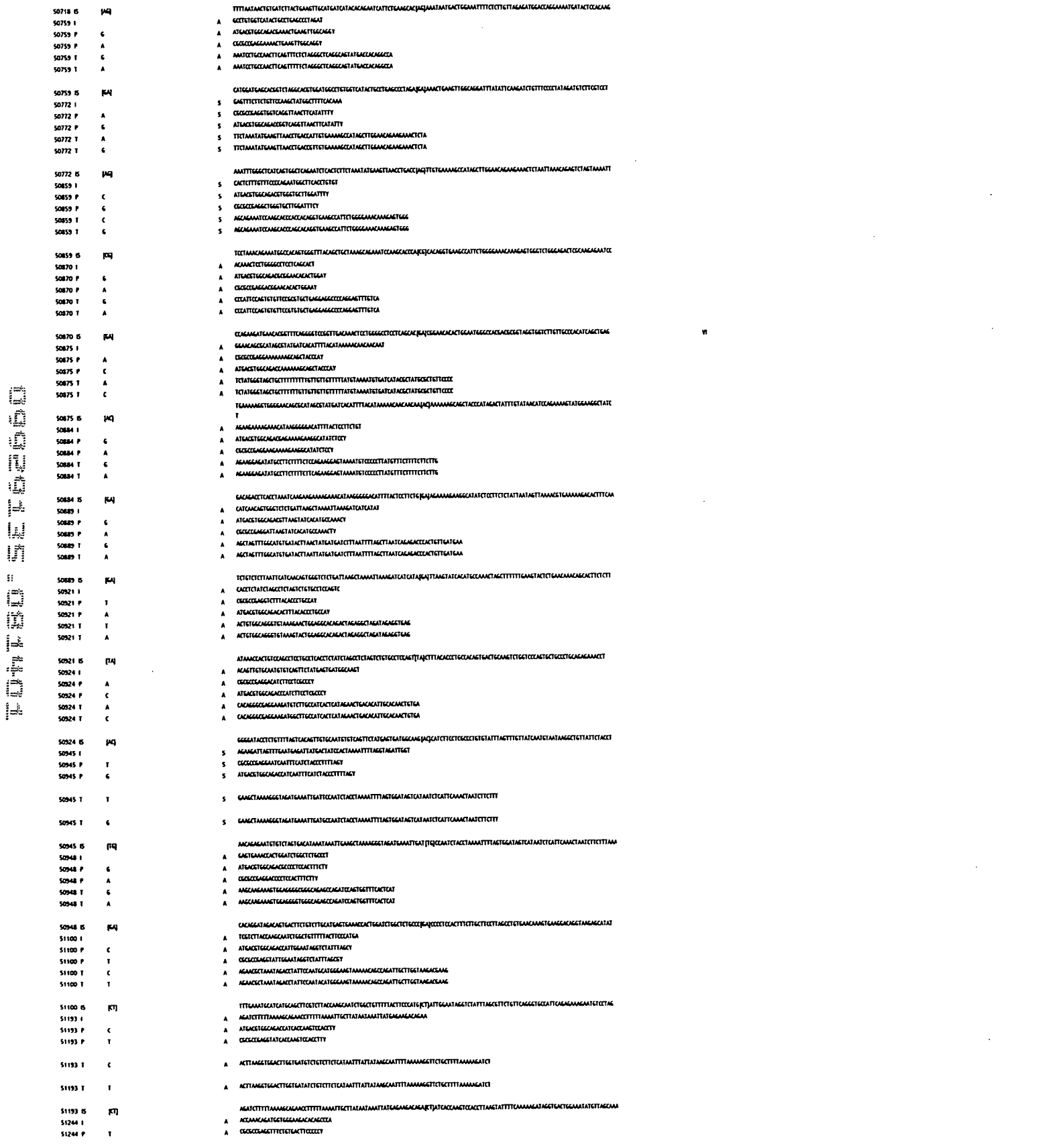


FIGURE 129F

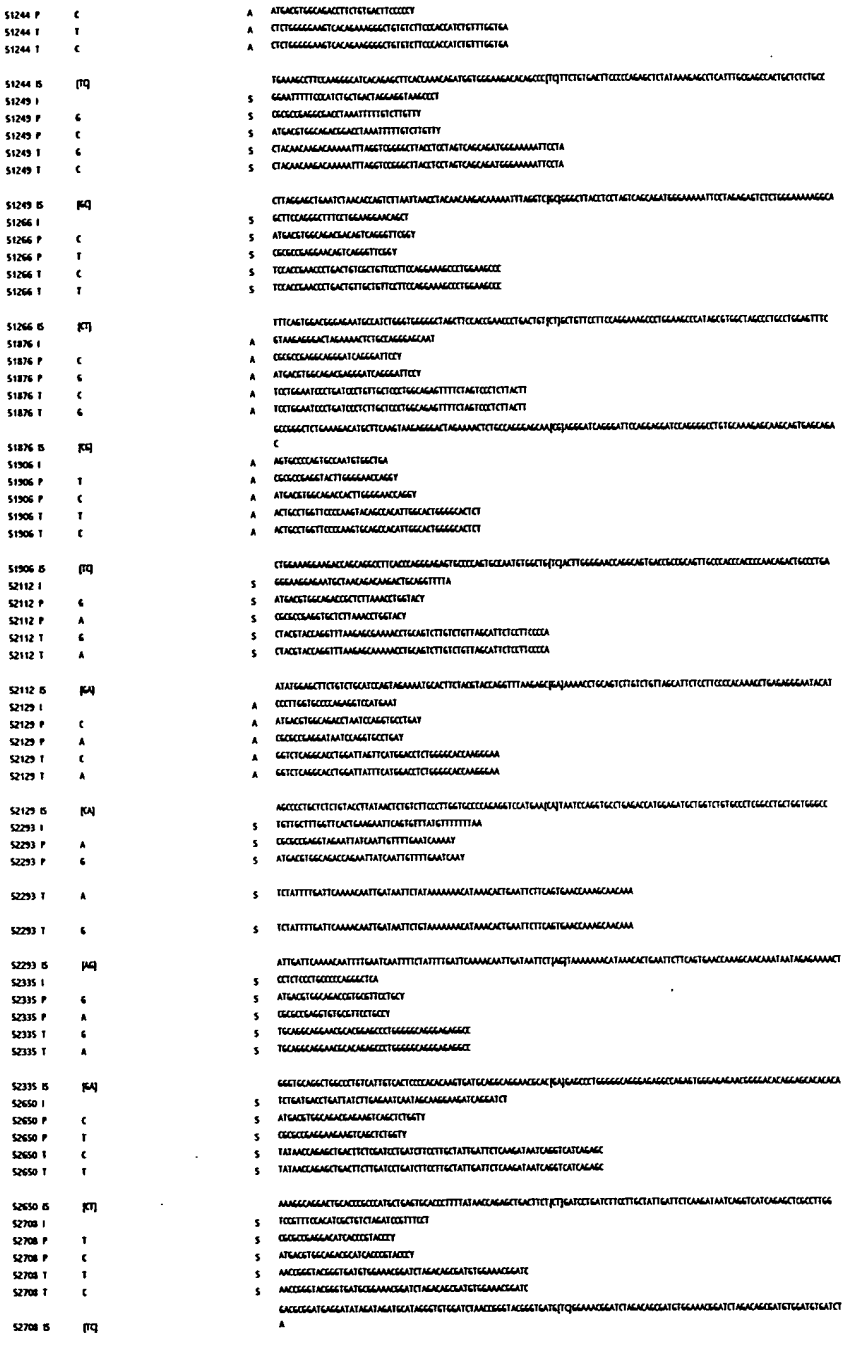


FIGURE 129G

SNP	OLIGO	PM	DC	OLIGO_SEQUENCE	GPCO	GPCH	SHORT_GENE_NAME
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	63516 P	G	A	ATGACGTGGCAGACGATACATAAGCATGCTCTCAT			
	63516 P	C	A	CGCGCCGAGGCATACATAAGCATGCTCTCAT			
	63516 T	G	A	ACCATGAGAGCATGCTTATGTATCAAGCATTTCCTACAATGACTCTTCCAAGTGAGTGGACATTGAT			
	63516 T	C	A	ACCATGAGAGCATGCTTATGTATCAAGCATTTCCTACAATGACTCTTCCAAGTGAGTGGACATTGAT			
	63516 IS	[GC]		ACTGATATGTTTGGATAATCAATGTCCACTCACTTGGAAGAGTCATTGTAGGAAATGCTT[GC]ATACATAAGCATGCTCTCATGGTCCTCTCCTGATTTCTATTACTTTAATTCTTCAAGTTC	ctg13980	1	
	63629 I		S	GACTCCTCACAAGATGCTATAAAGTGACTAGCAGATGTTGGTATATCTC			
	63629 P	C	S	ATGACGTGGCAGACGATATTTAGAGAAAAGGTGAAACCT			
	63629 P	A	S	CGCGCCGAGGTATATTTAGAGAAAAGGTGAAACCT			
	63629 T	C	S	ACAGAGGTTTCACCTTTTCTCTAAATATCAGATATACCAACATCTGCTAGTCACTTTATAGCATCTTGTGAGGAGTCCA			
	63629 T	A	S	ACAGAGGTTTCACCTTTTCTCTAAATATAGATATACCAACATCTGCTAGTCACTTTATAGCATCTTGTGAGGAGTCCA			
	63629 IS	[CA]		ATCGGCCAAATTATCAAAATAAGATTCAGGTAACAGAGGTTTCACCTTTTCTCTAAATAT[CA]AGATATACCAACATCTGCTAGTCACTTTATAGCATCTTGTGAGGAGTCCACACTGTTTTC	ctg16586	20	
	64829 I		A	TGAATGACTGAAAAAATGAATCAATGCTTTATTAAATGATAAATCCATAGTCTGT			
	64829 P	C	A	ATGACGTGGCAGACTCGGGTTCACCGACGY			
	64829 P	T	A	CGCGCCGAGGTGGGTTCACCGACGY			
	64829 T	C	A	CTGGCGTCGGTGAACCCAACAGACTATGGATTTATCATTTAATAAAGCATTGATTCATTTTTTCAGTCATTCATT			
	64829 T	T	A	CTGGCGTCGGTGAACCCAACAGACTATGGATTTATCATTTAATAAAGCATTGATTCATTTTTTCAGTCATTCATT			
	64829 IS	[CT]		TTCAATGAATGACTGAAAAAATGAATCAATGCTTTATTAAATGATAAATCCATAGTCTGT[CT]GGGTTCACCGACGCCAGCCATCGGTGCCATATTGCCACAAGTGTCCTATGGTAAAGCAGT	ctg16586	20	
	65789 I		A	GGAGAGACAGAGGCTGTGGTTGTGTCACTCA			
	65789 P	T	A	CGCGCCGAGGTGGCGGCTGCACY			
	65789 P	C	A	ATGACGTGGCAGACCGGCGGCTGCAY			
	65789 T	T	A	GTCCGTGCAGCCGCCAGAGTGCACAACCACAGCCTCTGTCTCTCCTT			
	65789 T	C	A	GTCCGTGCAGCCGCCGGAGTGCACAACCACAGCCTCTGTCTCTCCTT			
	65789 IS	[TC]		GGAGGCAGATAGGATCCTCAAACTCCACAAAGCAGACACAGAGGCTGTGGTTGTGCACTC[TC]GGCGGCTGCACGCACCCCGGTCAGCTGGAGGGAGAACTTCCCTCACTGATGCCACCTGGG	ctg16586	20	
	65826 I		A	GCCCTGAGCAGGCCTCCGAACAGGA			
	65826 P	T	A	CGCCCCAGGTCCCATCACACCAGATGY			
	65826 P	C	A	ATGACGTGGCAGACCCCCATCACACCAGAY			
	65826 T	T	A	AGTGCATCTGGTGTGATGGGACCTGTTCGGAGGCCTCCTCAGGGCTG			
	65826 T	C	A	AGTGCATCTGGTGTGATGGGGCCTGTTCGGAGGCCTCCTCAGGGCTG			
	65826 IS	[TC]		AGAGCCCACTGTGTGGGCACAGTATCTTCGCTGCACAGCCCTGAGCAGGCCTCCGAACAGG[TC]CCCATCACACCAGATGCACTCAAAAACATACGGTGTCATTTACCCCCATGTGCCTACAGC	ctg16586	20	
	67723 I		A	AGCAAGACAGCTGGTTAACATTTATCACACTGCT			
	67723 P	A	A	CGCGCCCAGGATACTTATTAGTCAAATCAGGAAATGY			
	67723 P	G	A	ATGACGTGGCAGACGTACTTATTAGTCAAATCAGGAAATY			
	67723 T	A	A	CAGCCATTTCCTGATTTGACTAATAAGTATGCAGTGTGATAAATGTTAACCAGCTGTCTTGCTAT			
	67723 T	G	A	CAGCCATTTCCTGATTTGACTAATAAGTACGCAGTGTGATAAATGTTAACCAGCTGTCTTGCTAT			
	67723 IS	[AG]		AGAACTAAAAACTGTGTGACTATTTATAGCAAGACAGCTGGTTAACATTTATCACACTGC[AG]TACTTATTAGTCAAATCAGGAAATGGCTGTCCACAATACTCTGATGATCTGAGTTATAAT	ctg14210	12	
	68696 I		A	AGTTAATATCTGTCTCTTGCTTTTCTAATAGTAATAATTTTCTCCTTTTCTCTTCATTTTT			
	68696 P	A	A	CGCGCCGAGGATCTCTAAATAAAATTAACTTTTTTCAGATY			
	68696 P	C	A	ATGACGTGGCAGACCTCTCTAAATAAAATTAACTTTTTTCAGATY			
	68696 T	A	A	CAAAATCTGAAAAAAGTTAATTTTATTTAGAGATAAAATGAAGAGAAAAGCAGAAAATTATTACTATTAGAAAAGCAAGAGACAGATATTAACT			
	68696 T	C	A	CAAAATCTGAAAAAAGTTAATTTTATTTAGAGACAAAATGAAGAGAAAAGCAGAAAATTATTACTATTAGAAAAGCAAGAGACAGATATTAACT			
	68696 IS	[AC]		AGTTAATATCTGTCTCTTGCTTTTCTAATAGTAATAATTTTCTCCTTTTCTCTTCATTTT[AC]TCTCTAAATAAAATTAACTTTTTTCAGATTTGCAAAACACAAATGAGTTCTTAAATCAG	ctg14210	12	
	75814 I		A	TGTTATGGTGGTATCAGCAGCTATCAAATAATAGGCATTCCATCAAACT			
	75814 P	G	A	ATGACGTGGCAGACGGCAAGGGTGACCTY			
	75814 P	A	A	CGCGCCGAGGAGCAAGGGTGACCTCY			
	75814 T	G	A	GCAAGAGGTCACCCTTGCCGTTTGATGGAATGCCTATTATTTGATAGCTGCTGATACCACGATAACACA			
	75814 T	A	A	GCAAGAGGTCACCCTTGCTGTTTGATGGAATGCCTATTATTTGATAGCTGCTGATACCACGATAACACA			
	75814 IS	[GA]		AGGGAATCTCTGTGTTATCGTGGTATCAGCAGCTATCAAATAATAGGCATTCCATCAAAC[GA]GCAAGGGTGACCTCTTCCAAGATGCACATAAACTGCTGCCTGTTCCTACTTTGGTTTCTG	ctg14210	12	
	77422 I		S	CCAGAGAGCTTGTACCTTGCCTACAACCGTT			
	77422 P	C	S	ATGACGTGGCAGACGAGCCTGGGATGCAY			
	77422 P	T	S	CGCGCCGAGGAAGCCTGGGATGCAY			
	77422 T	C	S	AACCTGCATCCCAGGCTCACGGTTGTACGCAAGGTACAAGCTCTCTGGCT			
	77422 T	T	S	AACCTGCATCCCAGGCTTACGGTTGTACGCAAGGTACAAGCTCTCTGGCT			
	77422 IS	[CT]		GTTTACCACTGGTTGTTCAACTCTACCCCAGGTGGACTGGCTAACCTGCATCCCAGGCT[CT]ACGCTTGTACGCAAGGTACAAGCTCTCTGGCTAATGGGGAATCCAAATGAAATTTAGTTA			
	77491 I		S	GCCCCAGTTTCCTTAATTCTTATTAAAGTTCTAGCTCATTTATCAGTGGATTAAGCT			
	77491 P	T	S	CGCGCCGAGGAATGAACGGTAATTAACATTGTGY			
	77491 P	C	S	ATGACGTGGCAGACGATGAACGGTAATTAACATTGTY			
	77491 T	T	S	GGTCCACAATGTTAATTACCGTTCATTGCTTAATCCACTGATAAATGAGCTAGAACTTTAATAAGAATTAAGGAAACTGGGGCAG			
	77491 T	C	S	GGTCCACAATGTTAATTACCGTTCATCGCTTAATCCACTGATAAATGAGCTAGAACTTTAATAAGAATTAAGGAAACTGGGGCAG			
	77491 IS	[TC]		ATTCCAAAAAATGATGGCAAAACAGCCTTGAATGGGTCCACAATGTTAATTACCGTTCAT[TC]GCTTAATCCACTGATAAATGAGCTAGAACTTTAATAAGAATTAAGGAAACTGGGGCAGCA			
	77721 I		S	CTTCAATTTATAGGGTGATTCTGTAGGGCAAGATAGACATGT			
	77721 P	C	S	ATGACGTGGCAGACGTAATAGATAGACTGTAGAAATGAAAGY			
	77721 P	T	S	CGCGCCGAGGATAATAGATAGACTGTAGAAATGAAAGAY			
	77721 T	C	S	TTGGTCTTTCATTTCTACAGTCTATCTATTACCATGTCTATCTTGCCCTACAGAATCACCCTATAAATTGAAGAA			
	77721 T	T	S	TTGGTCTTTCATTTCTACAGTCTATCTATTATCATGTCTATCTTGCCCTACAGAATCACCCTATAAATTGAAGAA			
	77721 IS	[CT]		CTGGTATGTTATCAAGGAAAAAAACGAGTTTGGTCTTTCATTTCTACAGTCTATCTATTA[CT]CATGTCTATCTTGCCCTACAGAATCACCCTATAAATTGAAGAAATTTTAAATTACAGACA	ctg22fm4	22	
	78454 I		A	TTTCTCTTGCAAATATCCGTTTCAGCCTAGATGGTAAATAAA			
	78454 P	T	A	CGCGCCGAGGTCAGGAAACAGAAATAAGAGGY			
	78454 P	C	A	ATGACGTGGCAGACCCAGCAAACAGAAATAAGAGGY			
	78454 T	T	A	TCAACCTCTTATTTCTGTTTCTCATTATTTACCATCTAGGCTGAAACGGATATTTGCAAGACAAAAT			
	78454 T	C	A	TCAACCTCTTATTTCTGTTTCTCGTTATTTACCATCTAGGCTGAAACGGATATTTGCAAGACAAAAT			
	78454 IS	[TC]		GCTTATTTTCTATTATTATTTTCTCTTGCAAATATCCGTTTCAGCCTAGATGGTAAATAA[TC]CAAGGAAACAGAAATAAGAGGTTGAAAGTGACCAGGATAATTCTACTATAGGTAGTGGCTT	ctg22fm4	22	
	80530 I		S	CAGGGCCCAGGCAAGGCATGCT			
	80530 P	G	S	ATGACGTGGCAGACCCCTCCCTGCTGY			
	80530 P	T	S	CGCGCCGAGGACCCTCCCTGCTGY			
	80530 T	G	S	GGCCCAGCAGGAGGGGCCATGCCTTGCCTGGGCCCTGCA			
	80530 T	T	S	GGCCCAGCAGGGAGGGTGCATGCCTTGCCTGGGCCCTGCA			
	80530 IS	[GT]		AGGTCCTGGGCAGTGCTGGGGTTTGCAGGGTGGGGGAGGGCACAGGCCCACCAGGGAGGGG[GT]GCATGCCTTGCCTGGGCCCTGCATCCCCTCTGTCTAGGAGGGAATAGTGAGTGCCCACCT	ctg22fm4	22	
	80693 I		A	CACCAGCCCCCCCAGGCCATAT			
	80693 P	G	A	ATGACGTGGCAGACGGCGCCCCCTTTY			
	80693 P	C	A	CGCGCCGAGGCGCGGCCCCTTTY			
	80693 T	G	A	GCGCAAAGGGGCCGCCTATGGCCTGGCGGGCCTGGTGAA			
	80693 T	C	A	GCGCAAAGGGGCCGCCTATGGCCTGGCGGGCCTGGTGAA			

FIGURE 129G

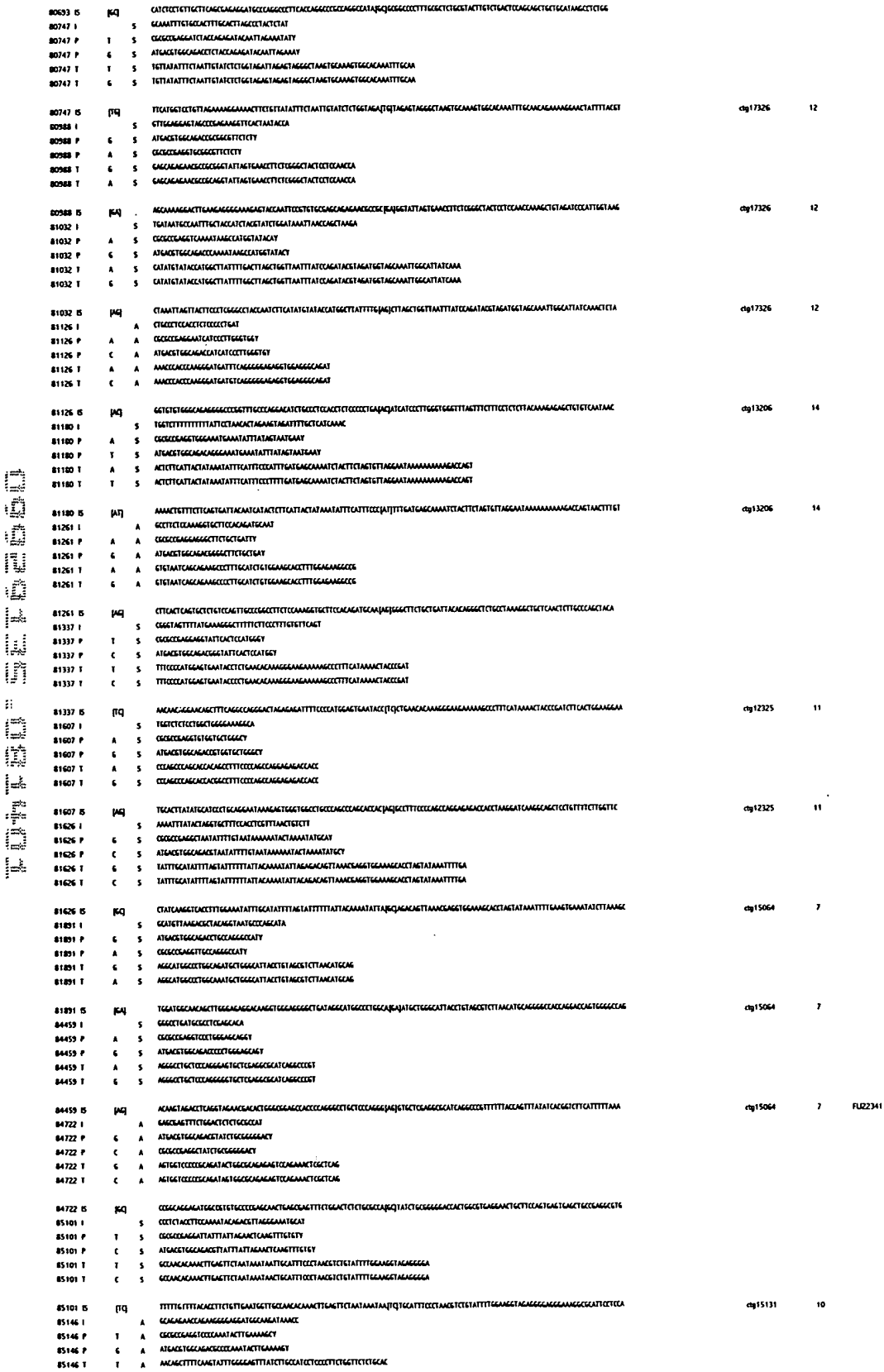


FIGURE 129G

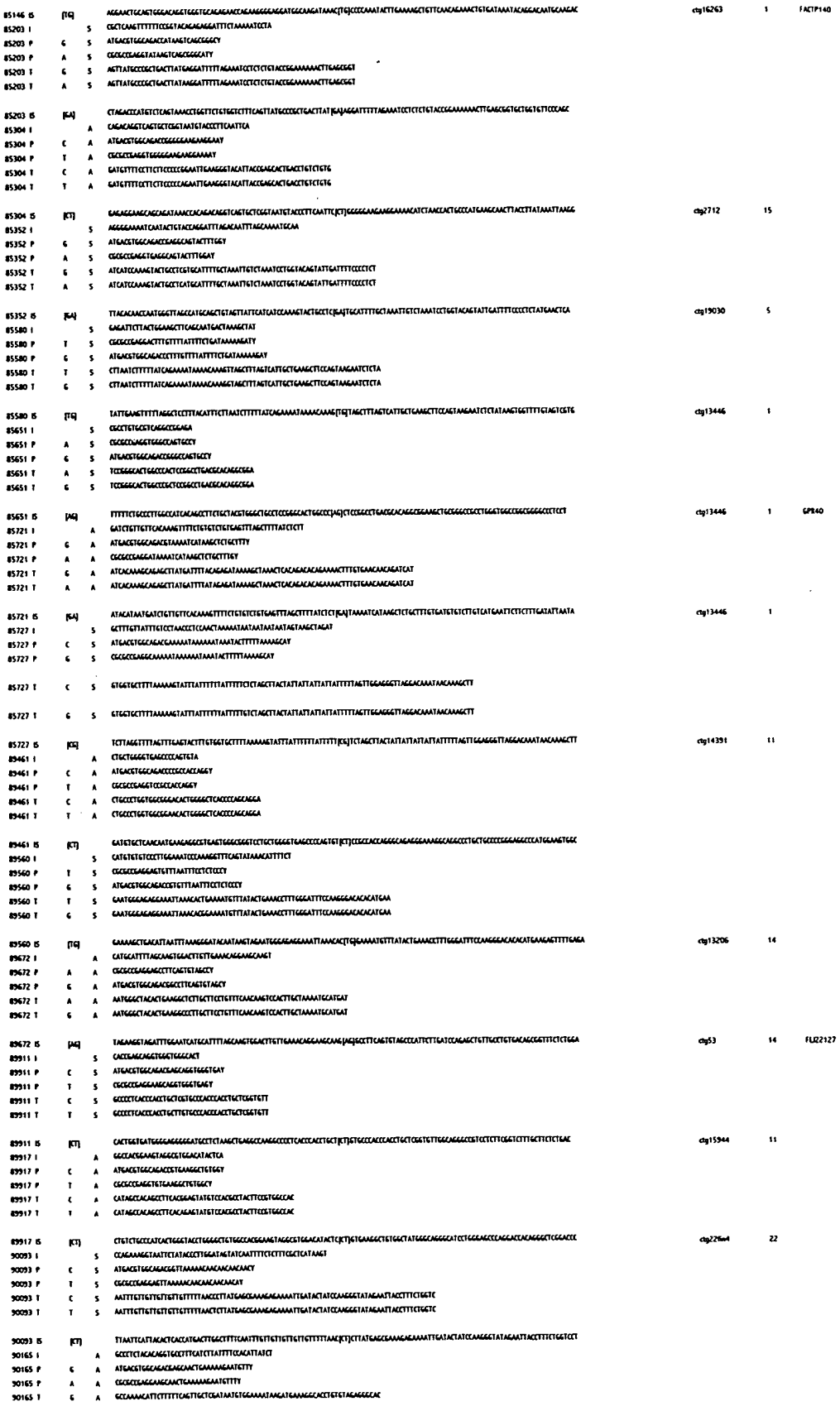


FIGURE 129G

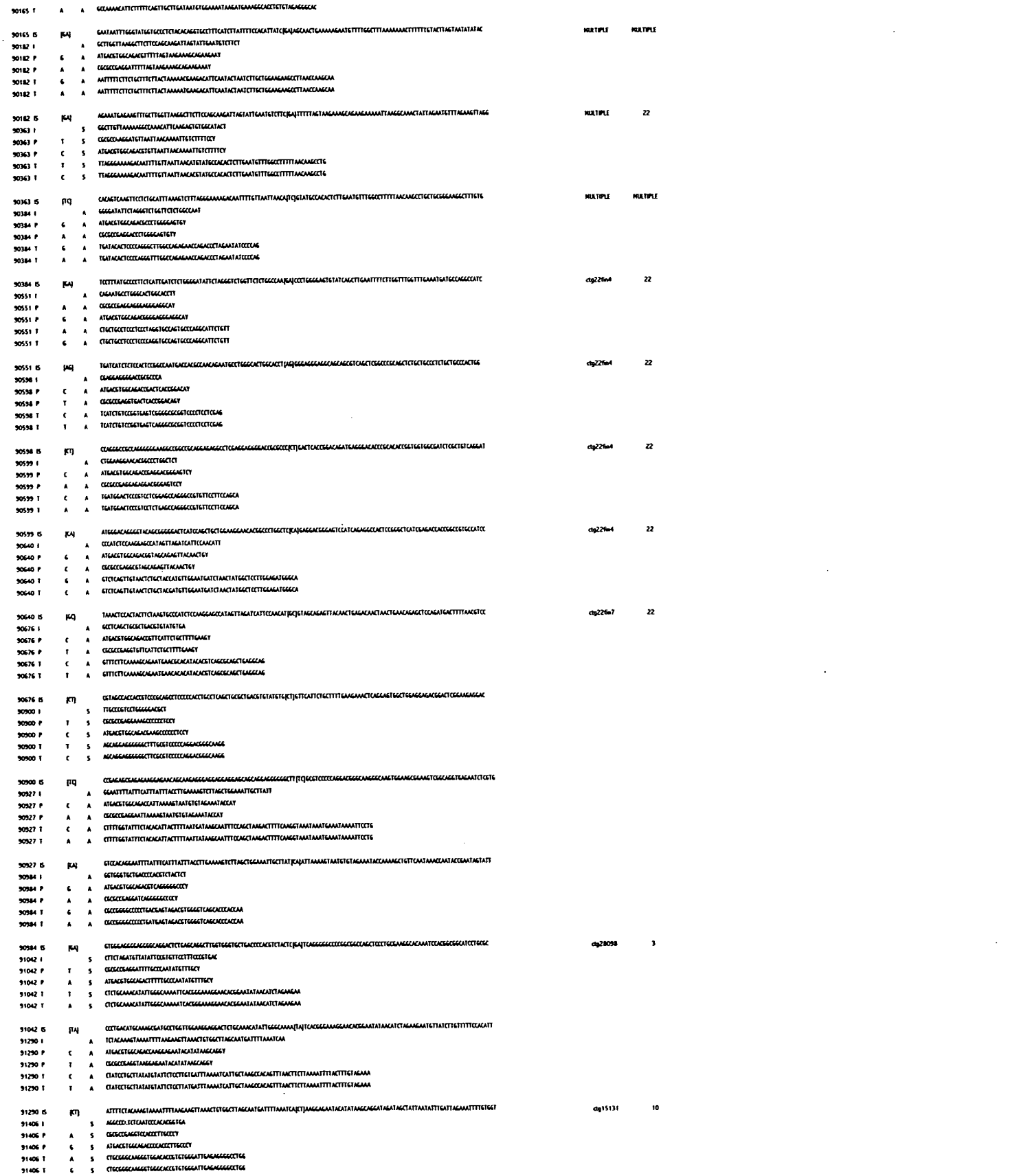

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90182 I A GCTTGGTTAAGGCTTCTTCCAGCAAGATTAGTATTGAATGTCTTCT
90182 P G A ATGACGTGGCAGACGTTTTTAGTAAGAAAGCAGAAGAAT
90182 P A A CGCGCCGAGGAATTTTAGTAAGAAAGCAGAAGAAAT
90182 T G A AATTTTCTTCTGCTTTCTTACTAAAAACGAAGACATTCAATACTAATCTTGCTGGAAGAAGCCTTAACCAAGCAA
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90363 I S GGCTTGTTAAAAAGCCAAACATTCAAGAGTGTGGCATACT
90363 P T S CGCGCCAAGGATGTTAATTAACAAAATTGTCTTTTCCY
90363 P C S ATGACGTGGCAGACGTGTTAATTAACAAAATTGTCTTTTCY
90363 T T S TTAGGGAAAAGACAATTTTGTTAATTAACATGTATGCCACACTCTTGAATGTTTGGCCTTTTTAACAAGCCTG
90363 T C S TTAGGGAAAAGACAATTTTGTTAATTAACACGTATGCCACACTCTTGAATGTTTGGCCTTTTTAACAAGCCTG
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90384 P G A ATGACGTGGCAGACGCCCTGGGGAGTGTY
90384 P A A CGCGCCGAGGACCCTGGGGAGTGTY
90384 T G A TGATACACTCCCCAGGGCTTGGCCAGAGAACAGACCCTAGAATATCCCCAG
90384 T A A TGATACACTCCCCAGGGTTTGGCCAGAGAACAGACCCTAGAATATCCCCAG
90384 IS [GA] TCCTTTATGCCCCTTCTCATTGATCTCTGGGGATATTCTAGGGTCTGGTTCTCTCGCCAA[GA]CCCTGGGGAGTGTATCAGCTTGAATTTTCTTGGTTTGGTTTGAAATGATGCCAGGCCATC ctg226m4 22
90551 I A CAGAATGCCTGGGCACTGGCACCTT
90551 P A A CCCGCCGAGGAGGGGGAGGCAY
90551 P G A ATGACGTGCCAGACGGGGAGGCAGGCAT
90551 T A A CTGCTGCCTCCCTCCCTAGGTGCCAGTGCCCAGGCATTCTGTT
90551 T G A CTGCTGCCTCCCTCCCCAGGTGCCAGTGCCCAGGCATTCTGTT
90551 IS [AG] TGATCATCTCTCCACTCCGGCCAATGACCACGCCAACAGAATGCCTGGGCACTGGCACCT[AG]GGGAGGAGGAGCAGGAGCAGCTCAGCTCGGCCCCGCAGCTCTGCTGCCCTCTGCTGCCCACTGG ctg226m4 22
90598 I A CGAGGAGGGGACCGCGCCCA
90598 P C A ATGACGTGGCAGACGCAGTCACCGGACAT
90598 P T A CGCGCCGAGGTGACTCACCGGACAGT
90598 T C A TCATCTGTCCGGTGAGTCGGGGCGCGGTCCCCTCCTCCAG
90598 T T A TCATCTGTCCGGTGAGTCAGGGCGCGGTCCCCTCCTCCAG
90598 IS [CT] CCAGGGCCCCCAGAGGGGAAGGCCGGCCGCAGGAGAGGCCTCGAGGAGGGGACCGCCGCCC[CT]GACTCACCGGACAGATCAGGGACACCCGCACACCGCAGTGGTGGCGATCTCGCTGTCAGGAT ctg226m4 22
90599 I A CTGGAAGGAACACGCCCTGGCTCT
90599 P C A ATGACGTGGCAGACGCAGGACACGGGAGTCY
90599 P A A CGCGCCGAGGACAGACACGGGAGTCCY
90599 T C A TGATGGACTCCCGTCCTCTCGGAGCCAGGGCCGTGTTCCTTCCAGCA
90599 T A A TGATGGACTCCCGTCCTCTCAGCCAGGGCCGTGTTCCTTCCAGCA
90599 IS [CA] ATGGGACAGGGGTCAGCGGGGGGACTCATCCAGCTGCTGGAAGGAACACGGCCTGGCTC[CA]GAGGACGGGAGTCCATCAGAGGCCACTCCCGGCTCATCGAGACCACCGGCCGTGCCATCC ctg226m4 22
90640 I A CCCATCTCCCAAGAAGCCATAGTTAGATCATTCCAACATT
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90640 P C A CGCGCCGAGGCGTAGCAGAGTTACAACTGY
90640 T G A GTCTCAGTTGTAACTCTGCTACCATGTTGGAATGATCTAACTATGGCTCCTTGGAGATGGGCA
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90676 I A GCCTCAGCTGCGCTGACGTGTATGTGA
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FIGURE 129G

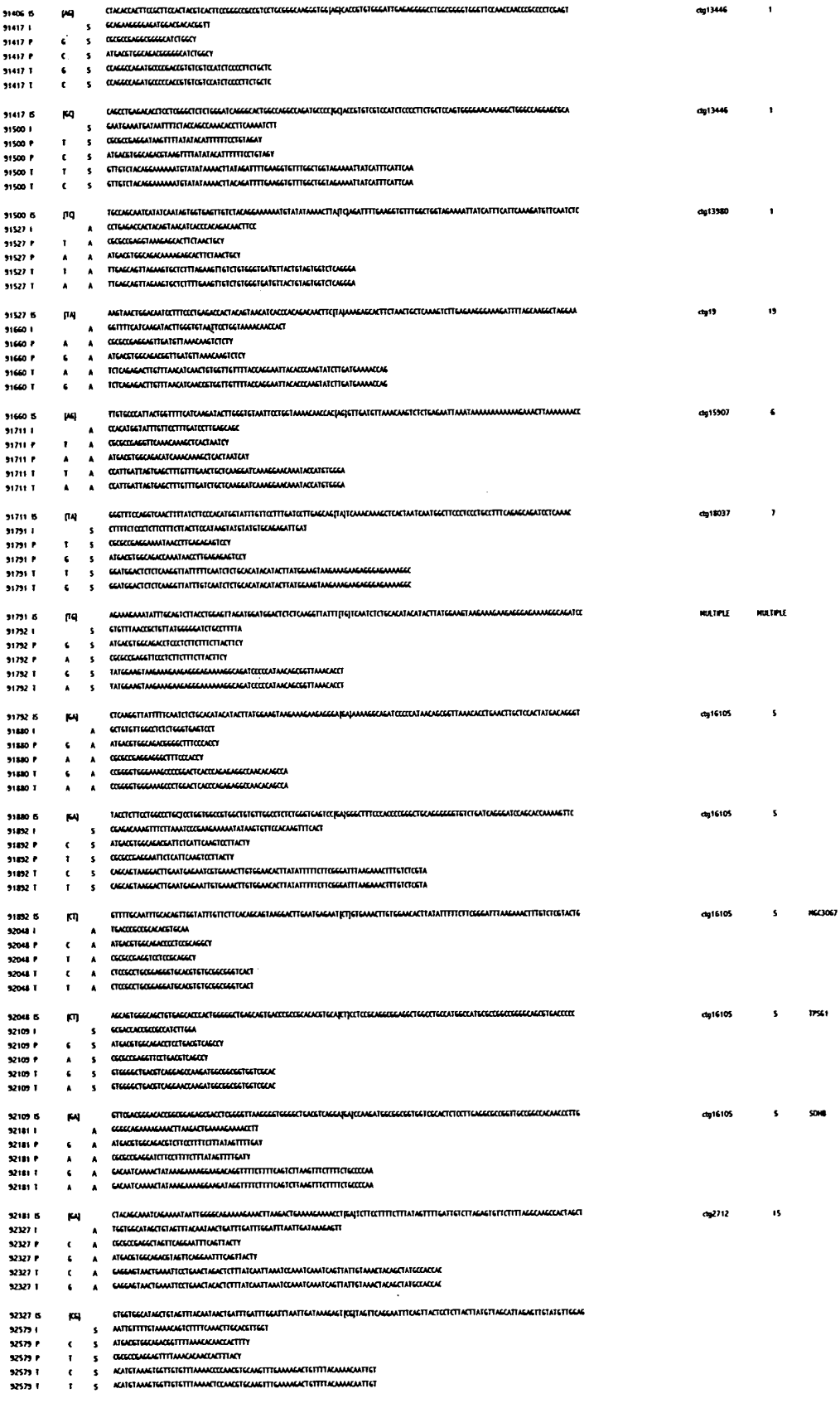


FIGURE 129G

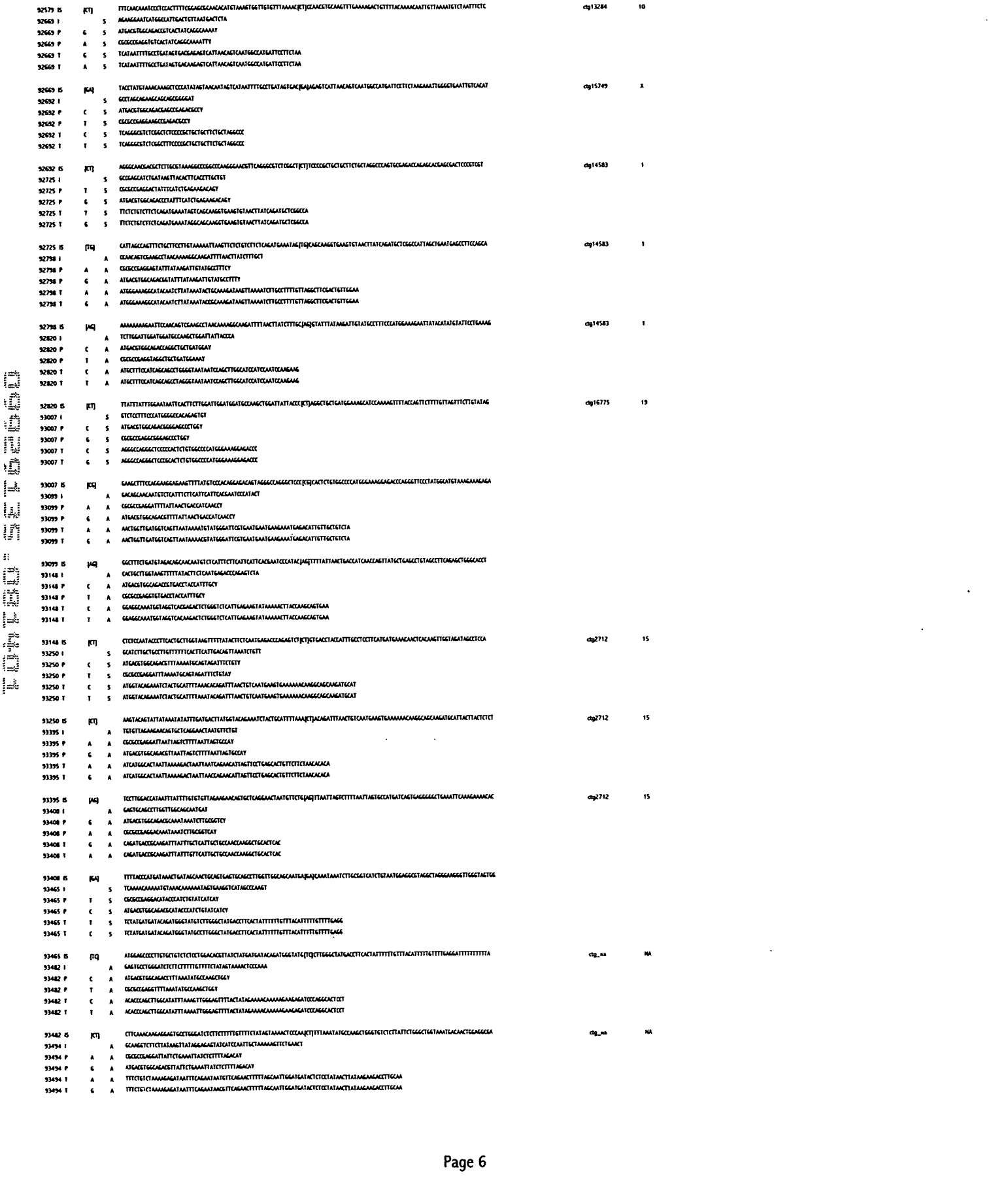


FIGURE 129G

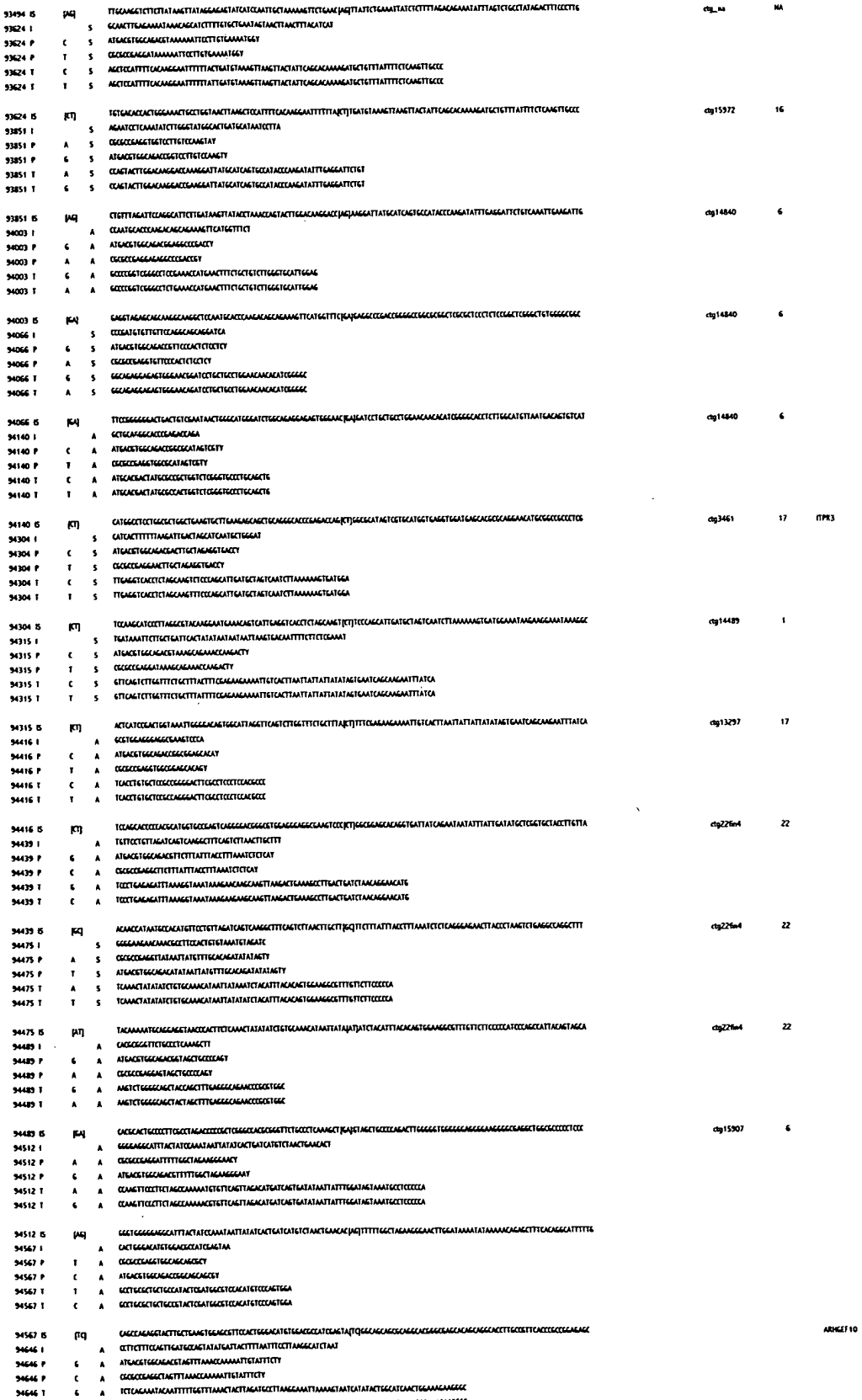
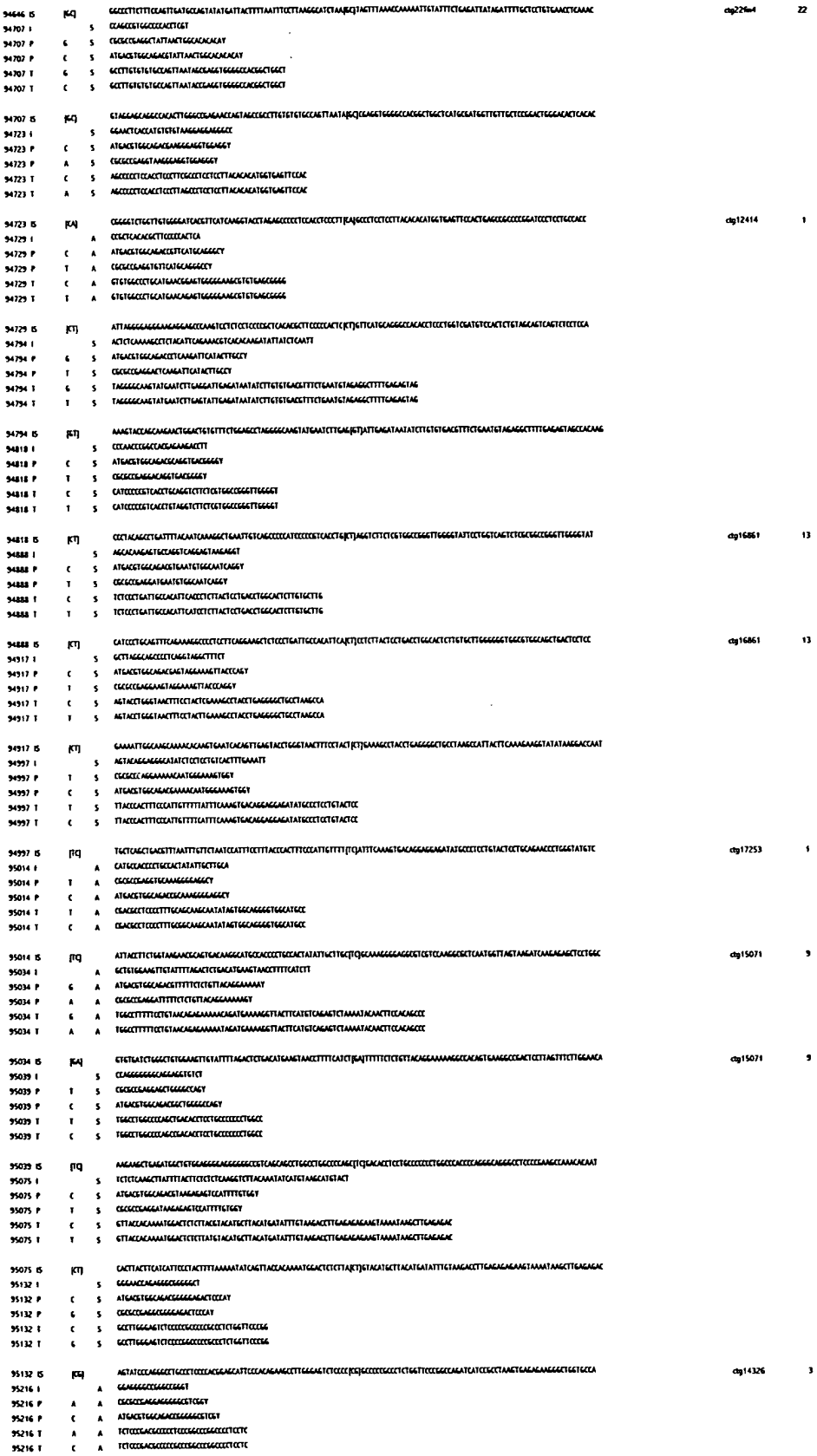


FIGURE 129G



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FIGURE 129G

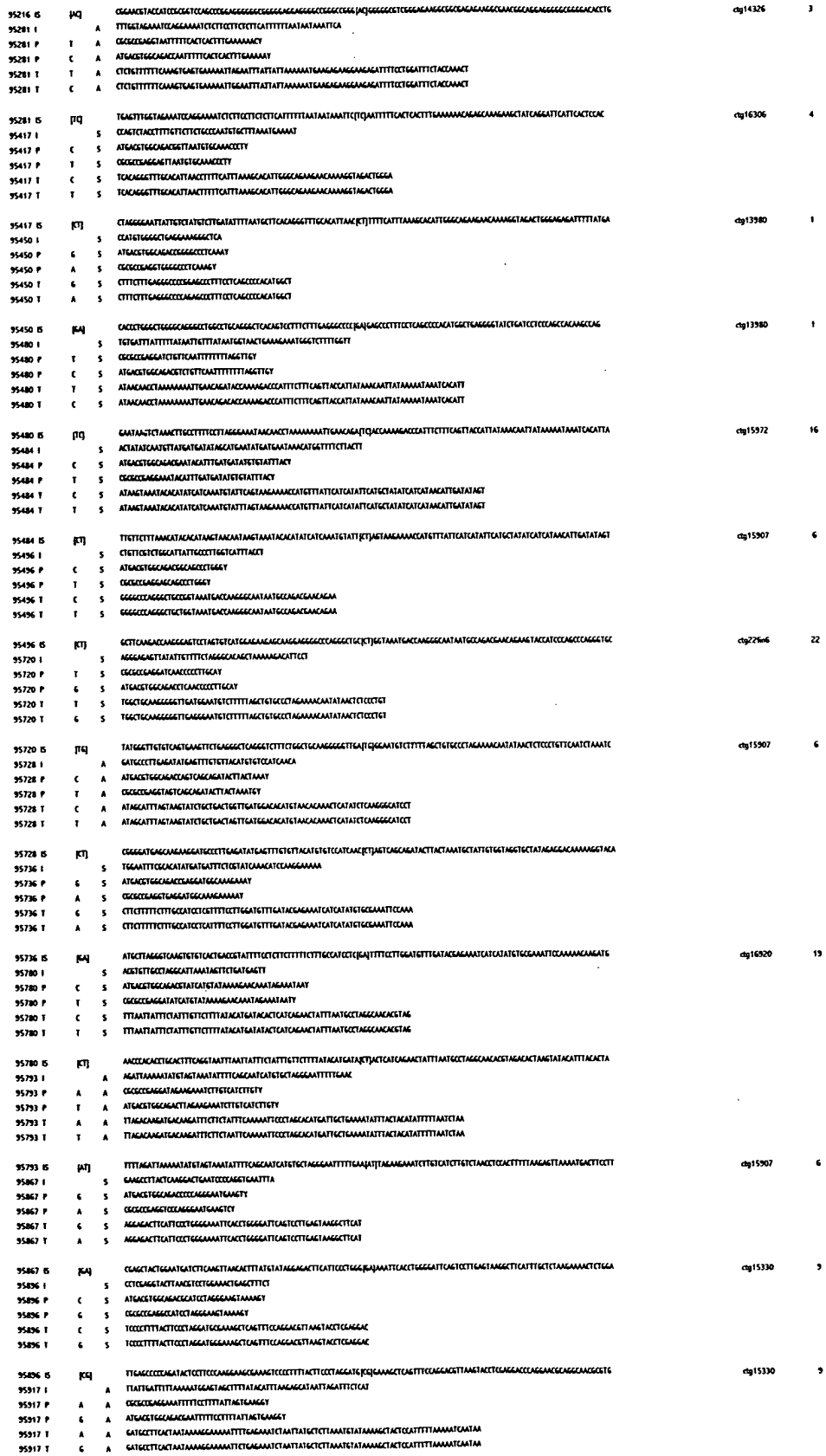


FIGURE 129G

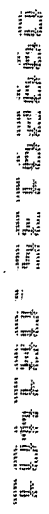


FIGURE 129G

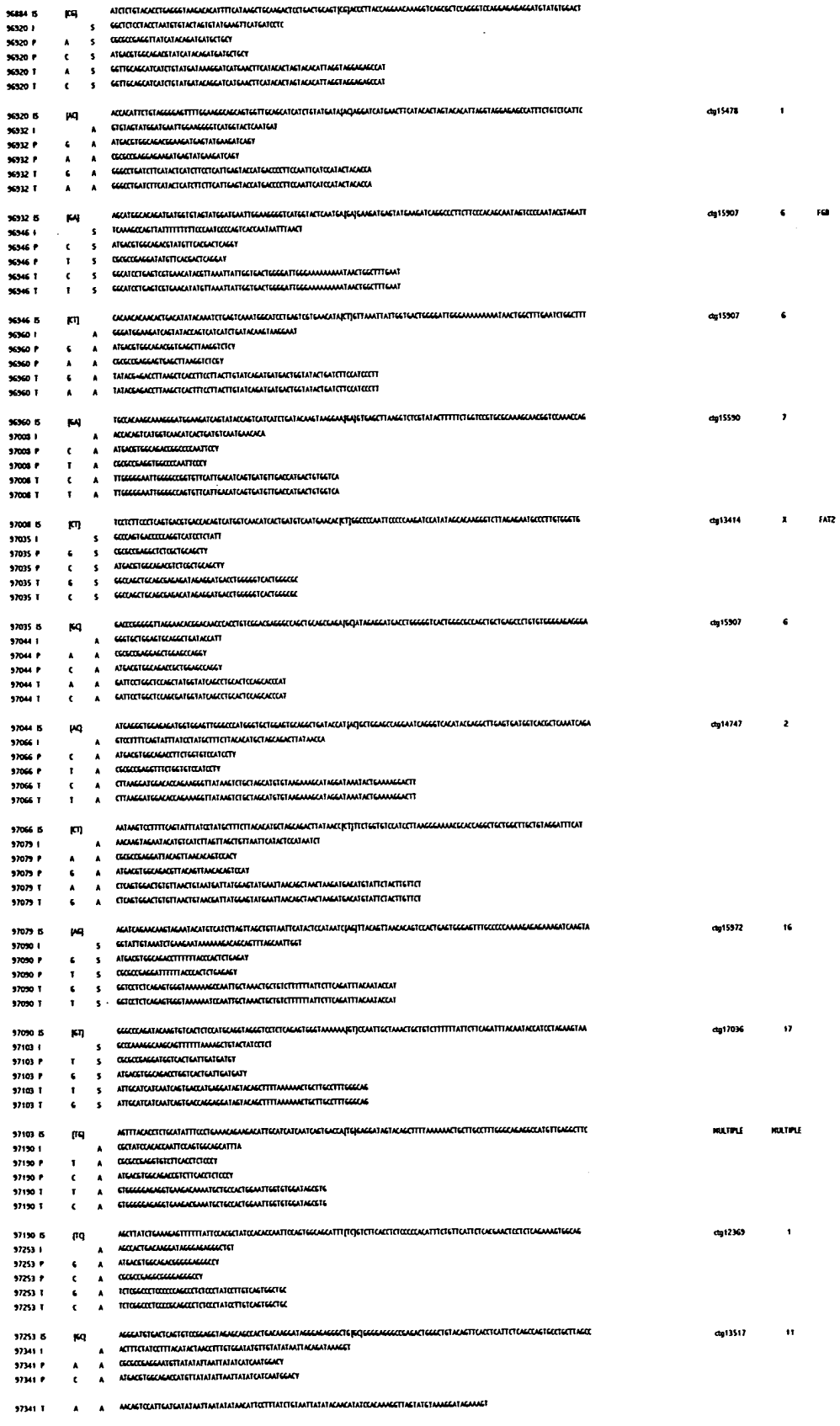
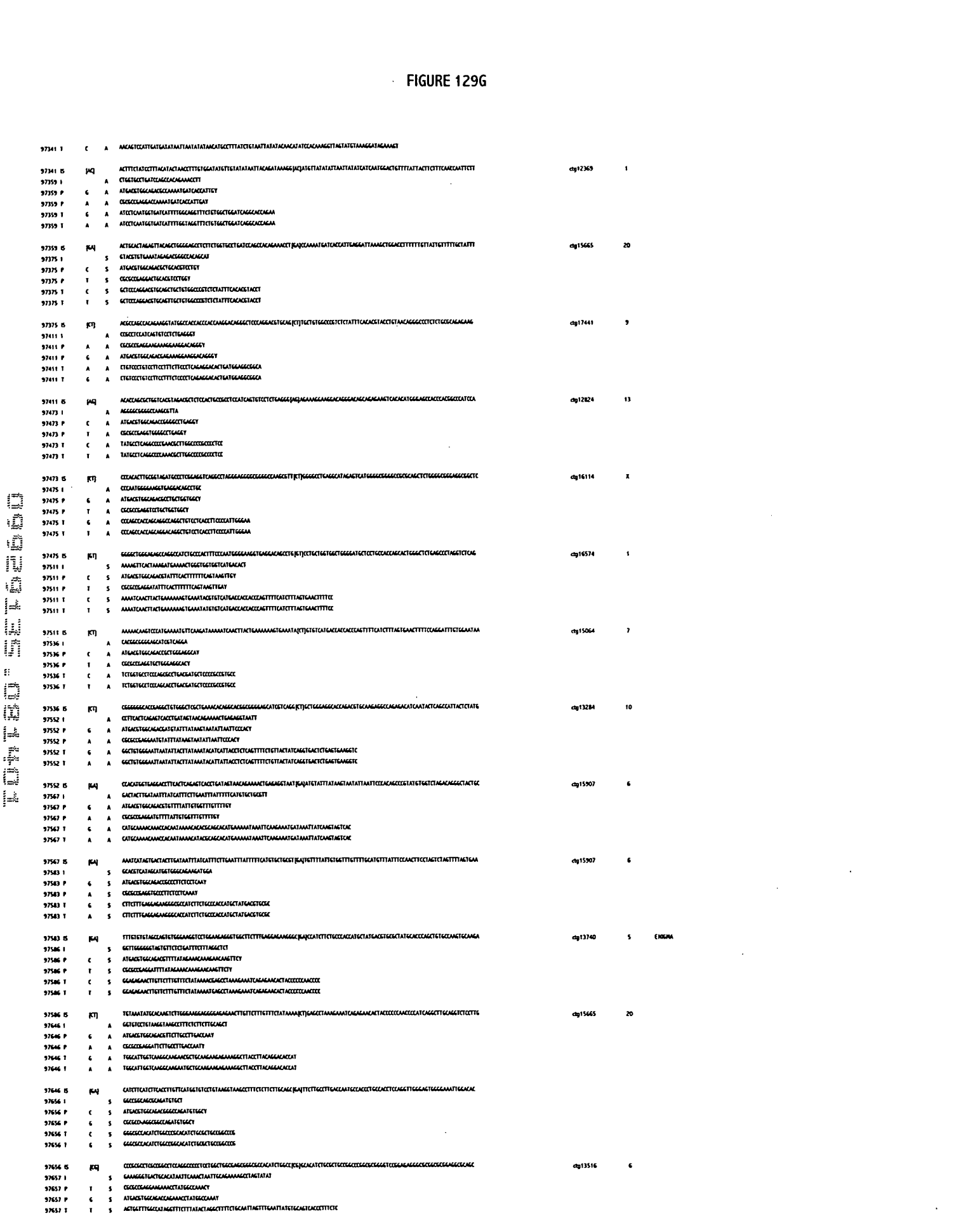


FIGURE 129G



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97678 P    G    S   ATGACGTGGCAGACCGGCTCACAGCTGGY
97678 P    A    S   CGCGCCGAGGTGGCTCACAGCTGGY
97678 T    G    S   CCTCCCAGCTGTGAGCCGGGAAAATCCAGTTGCCAGTGACTCCTATGAGGCTGC
97678 T    A    S   CCTCCCAGCTGTGAGCCAGGAAAATCCAGTTGCCAGTGACTCCTATGAGGCTGC

97678 IS   [GA]      TATCCCTGCACAGGCTCCTGAGGAAGATGCTACGAGGGTCTGGCCTCCCAGCTGTGAGCC[GA]GCAAAATCCAGTTGCCAGTGACTCCTATGAGGCTGCGGTGCTCTCCCTGGCCACTGGGCT   ctg15330   9
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97704 P    C    S   ATGACGTGGCAGACGCGGGGAACGCY
97704 P    A    S   CGCGCCGAGGTGCGGGGAACGCY
97704 T    C    S   GGCTGCGTTCCCCGCCCTGAGCCCAGCACAGCTGCACCGGC
97704 T    A    S   GGCTGCGTTCCCCGCACTGAGCCCAGCACAGCTGCACCGGC

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97876 IS   [CG]      AGAGCCGTGAAAGCTCTCCAAAGGTTGGACCGAGGCAAAGACACAATGCGGCTCTAGCA[CG]CACAATTACGGCCGGGATAGGTCCCCCAGGCACCAGTTAGCAGTCATTCTTCTGGCTCTTG   ctg15907   6
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97999 T    T    S   GCCTTAACCCTGCAGCCTTGTGCCCATCACCAGCTCTACAGGTTAGTGGGC
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98000 P    G    A   ATGACGTGGCAGACGGCCTCTCAAAACATTGGY
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98006 T    G    A   GAATGAAGGTATAAACAAGAAAATAGGACACCATCTTATAACAGCACCAATGAAGAAGCCTTGGCTAA
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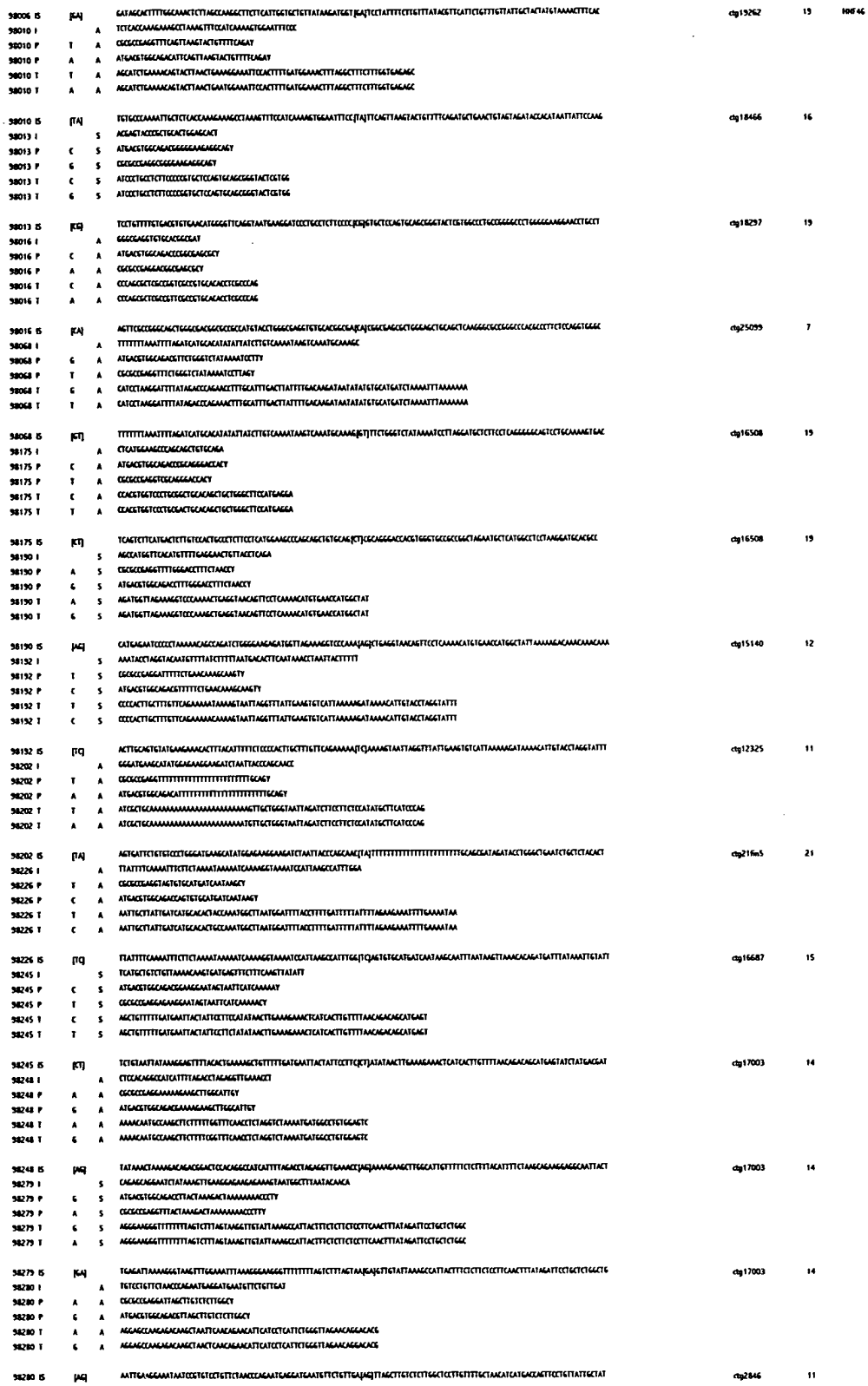


FIGURE 129G

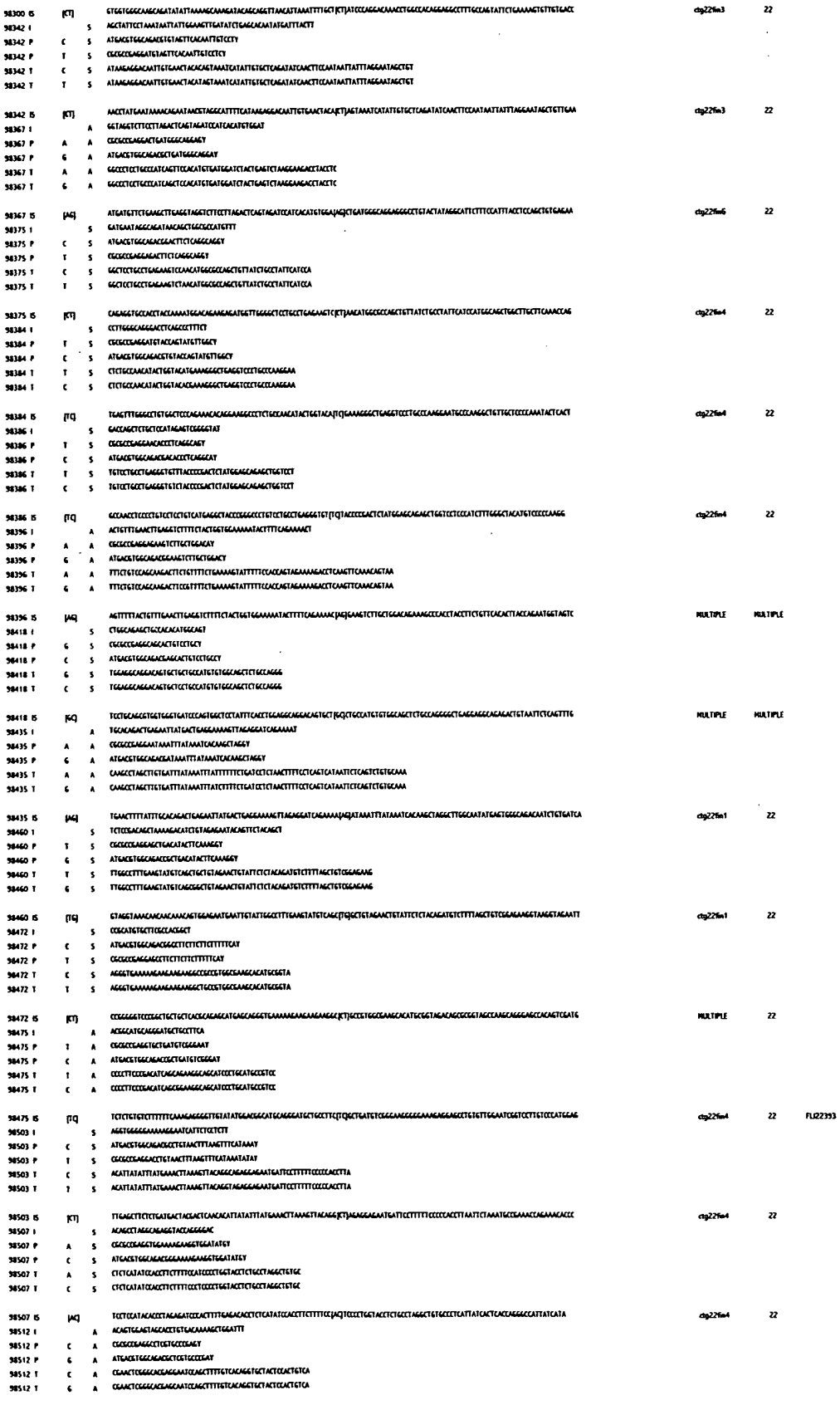


FIGURE 129G

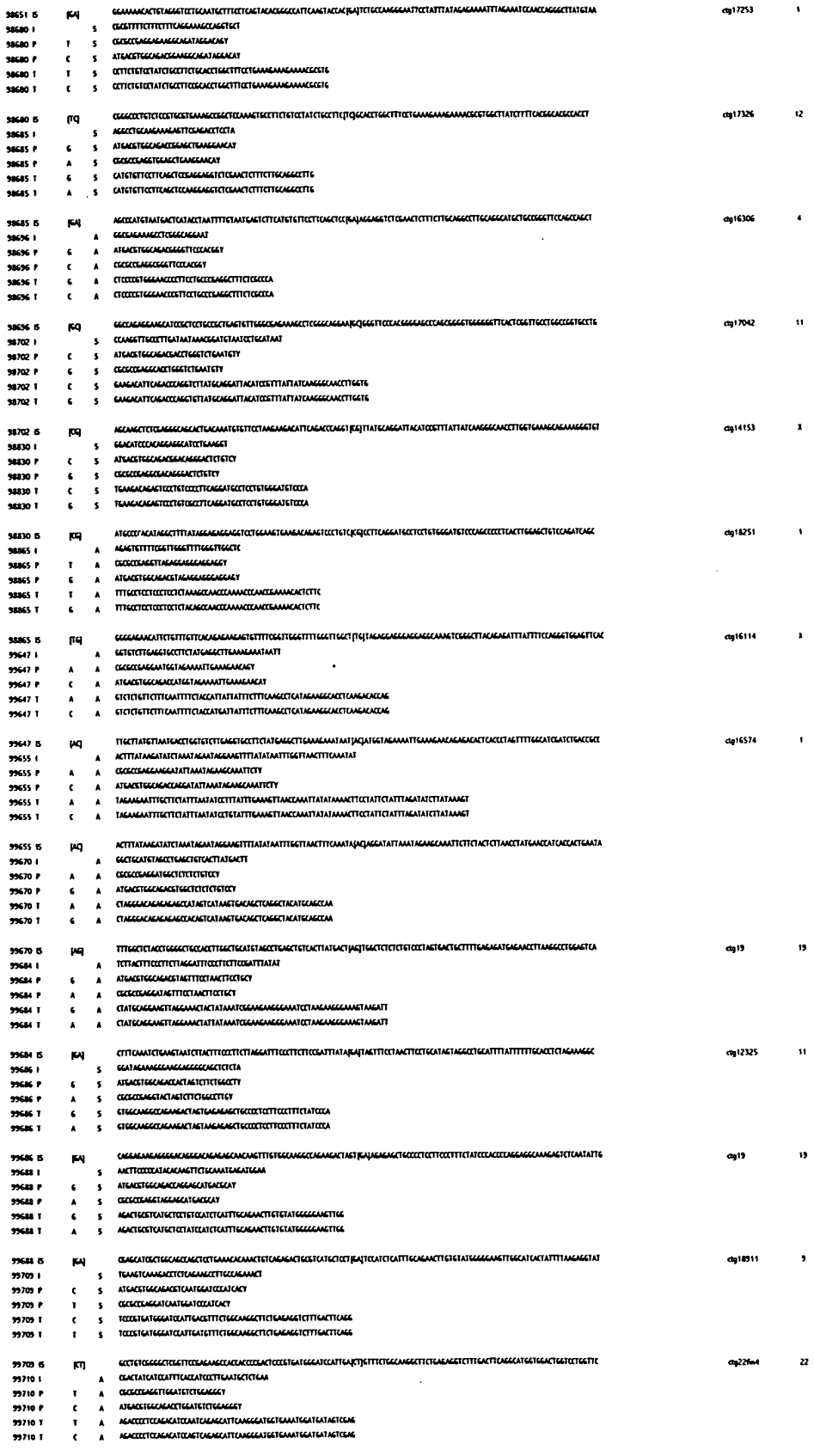
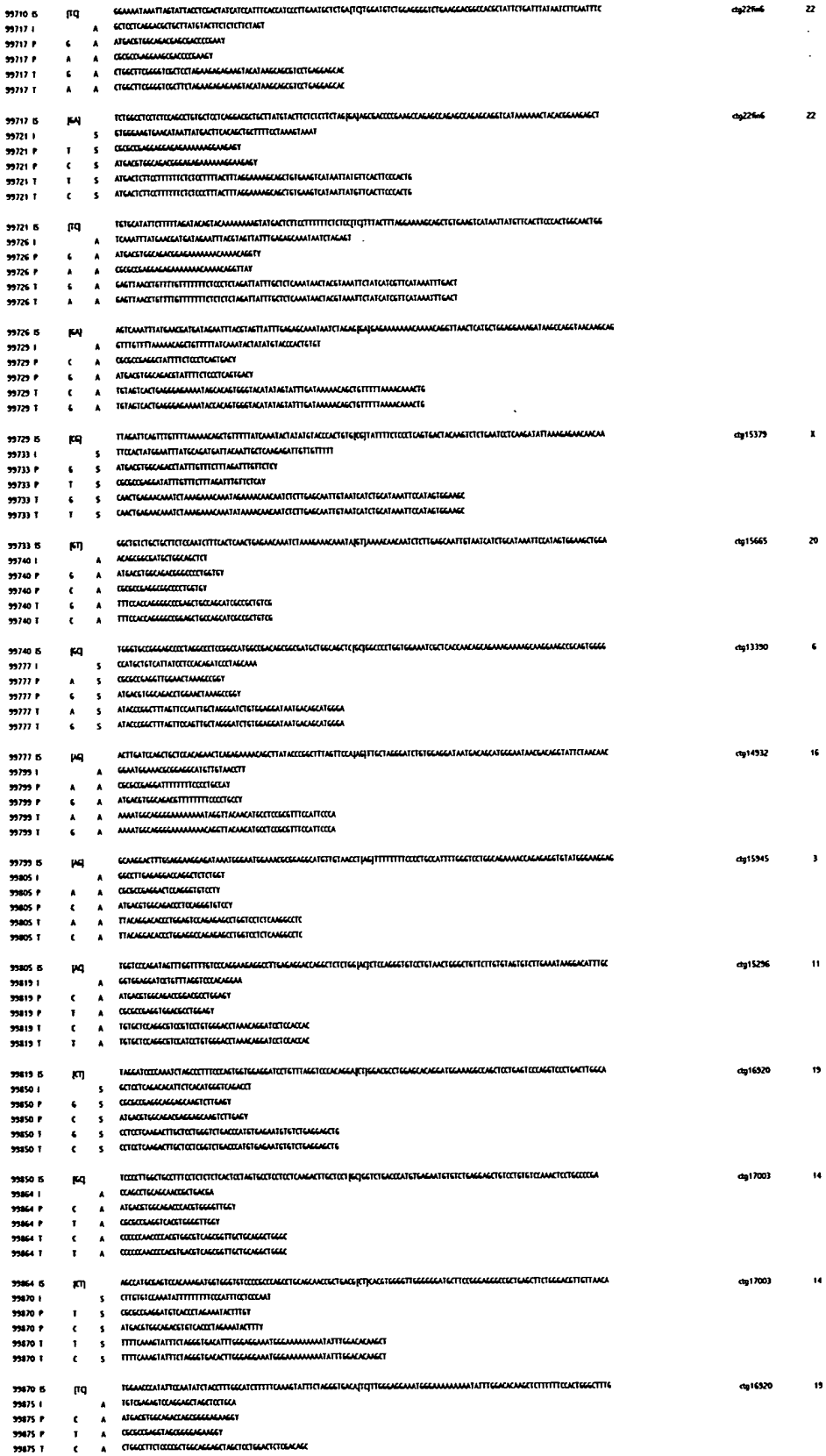
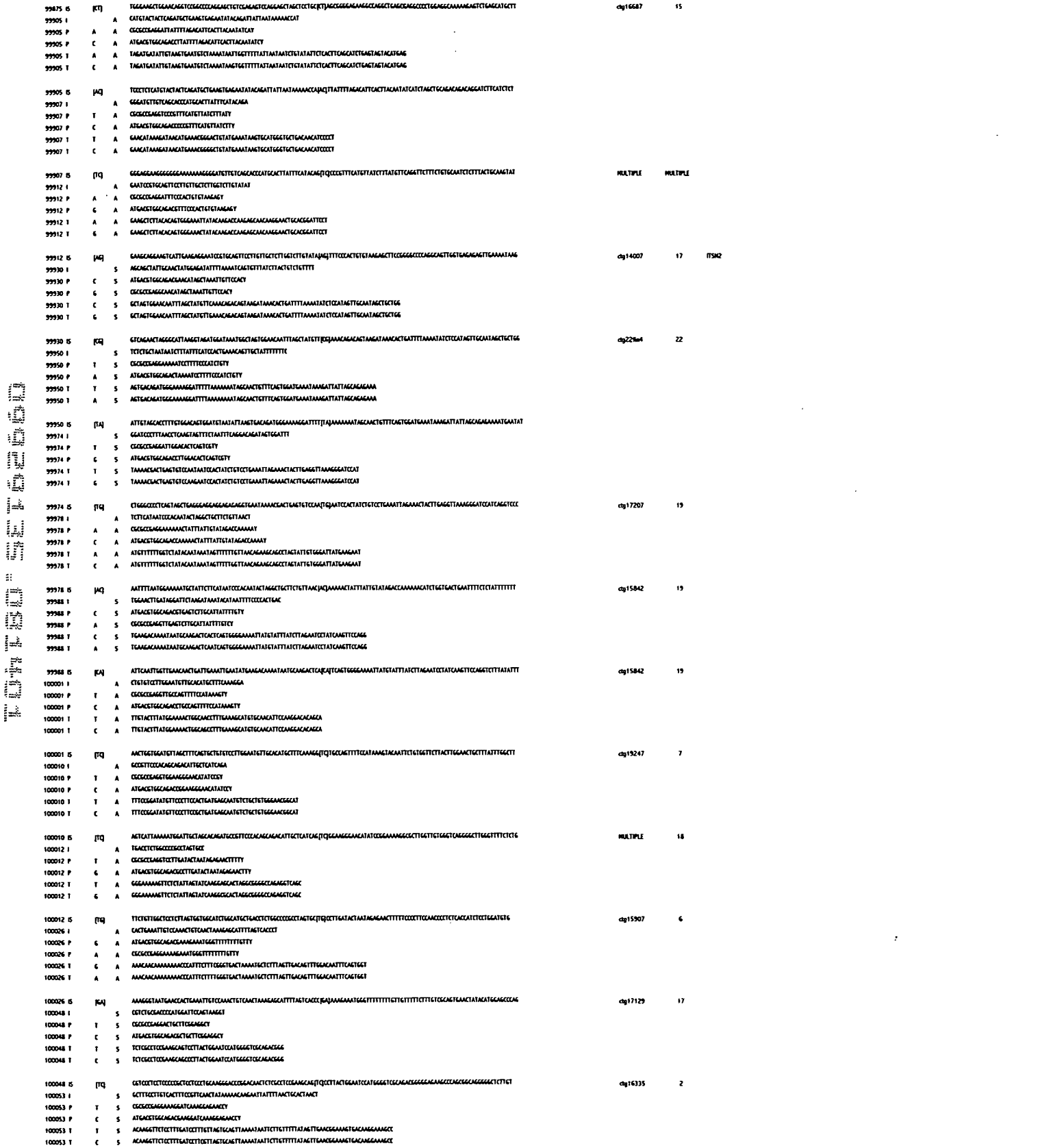


FIGURE 129G





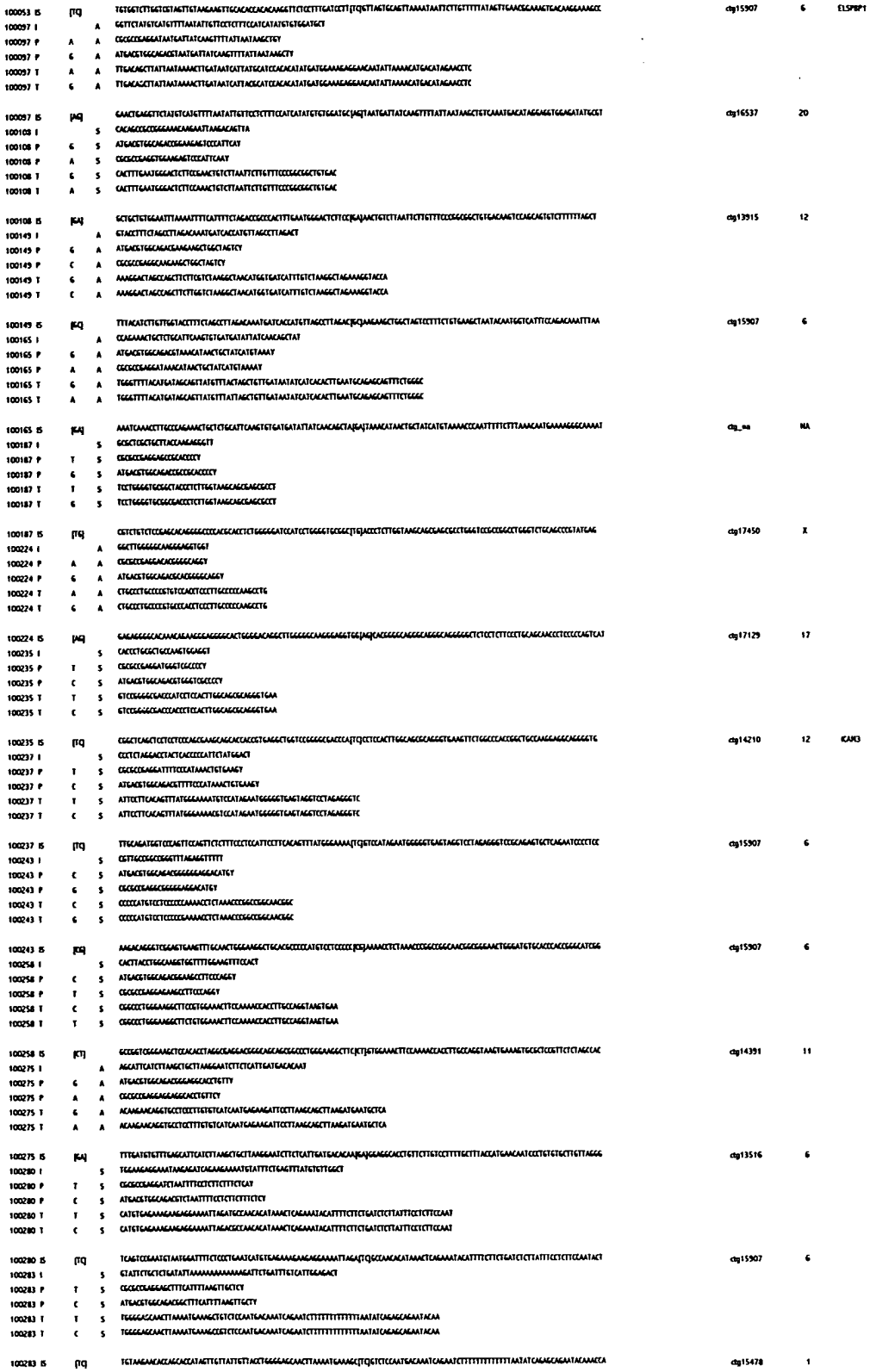


FIGURE 129G

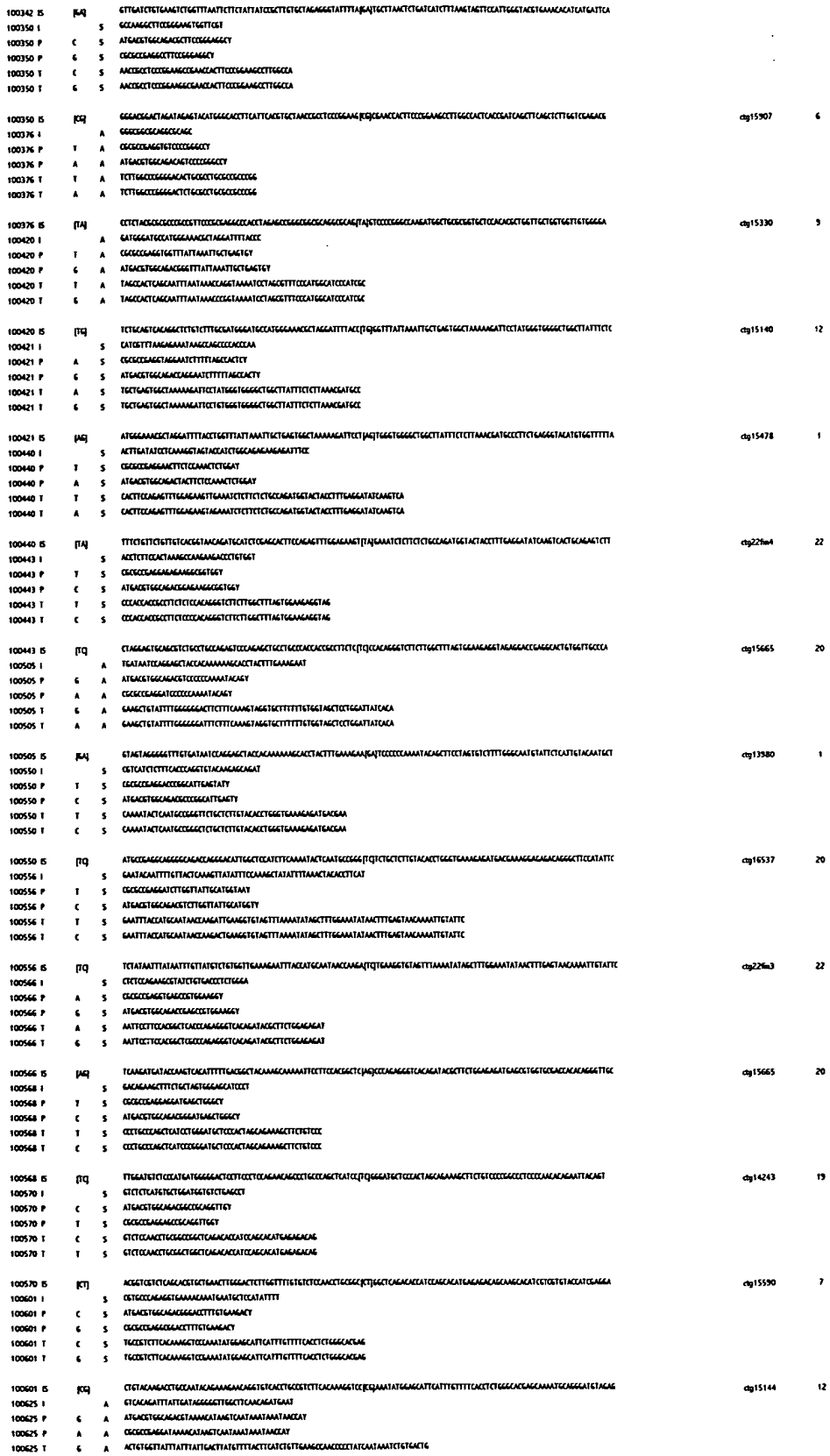


FIGURE 129G

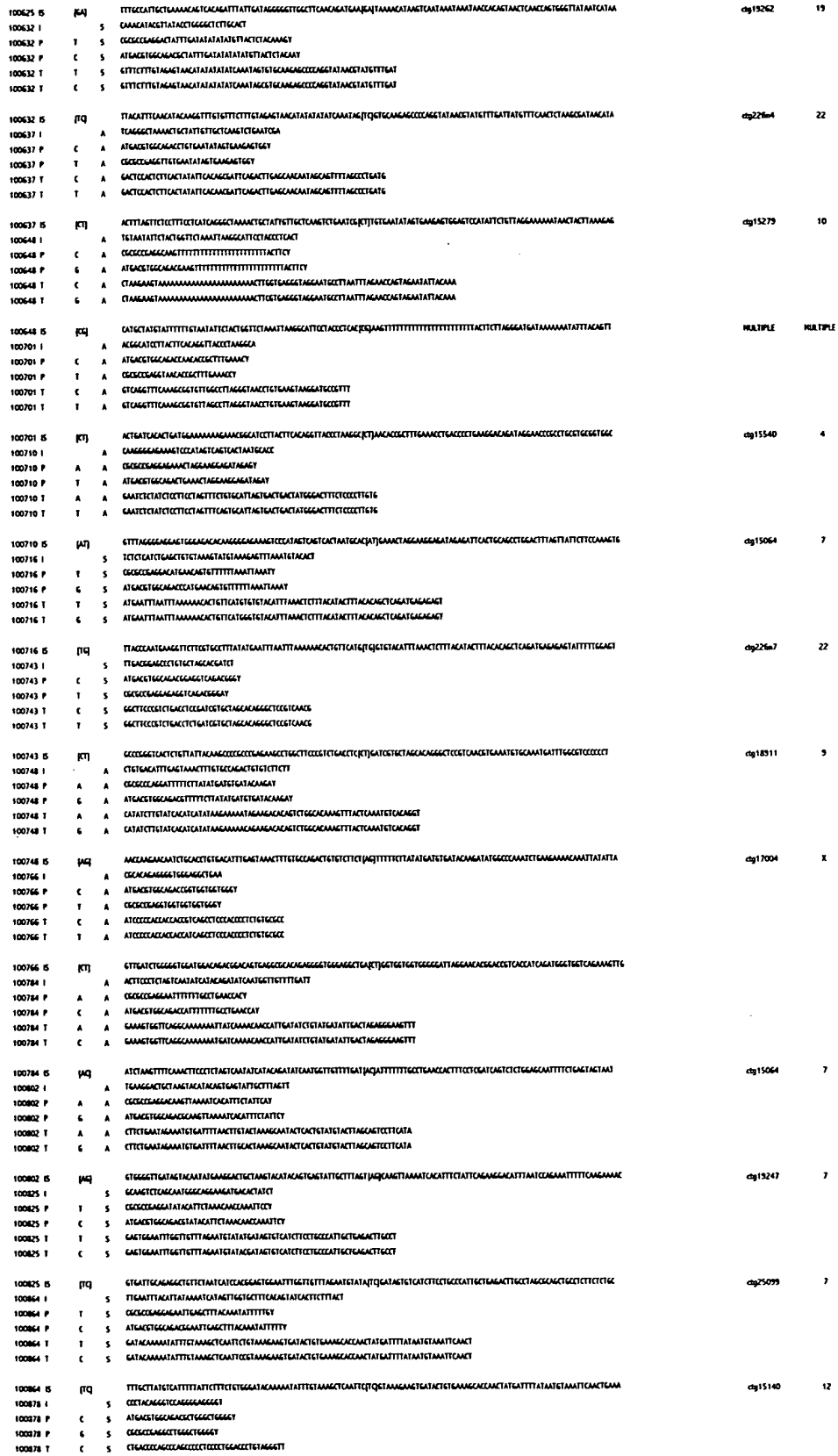
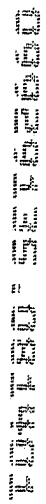

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FIGURE 129G



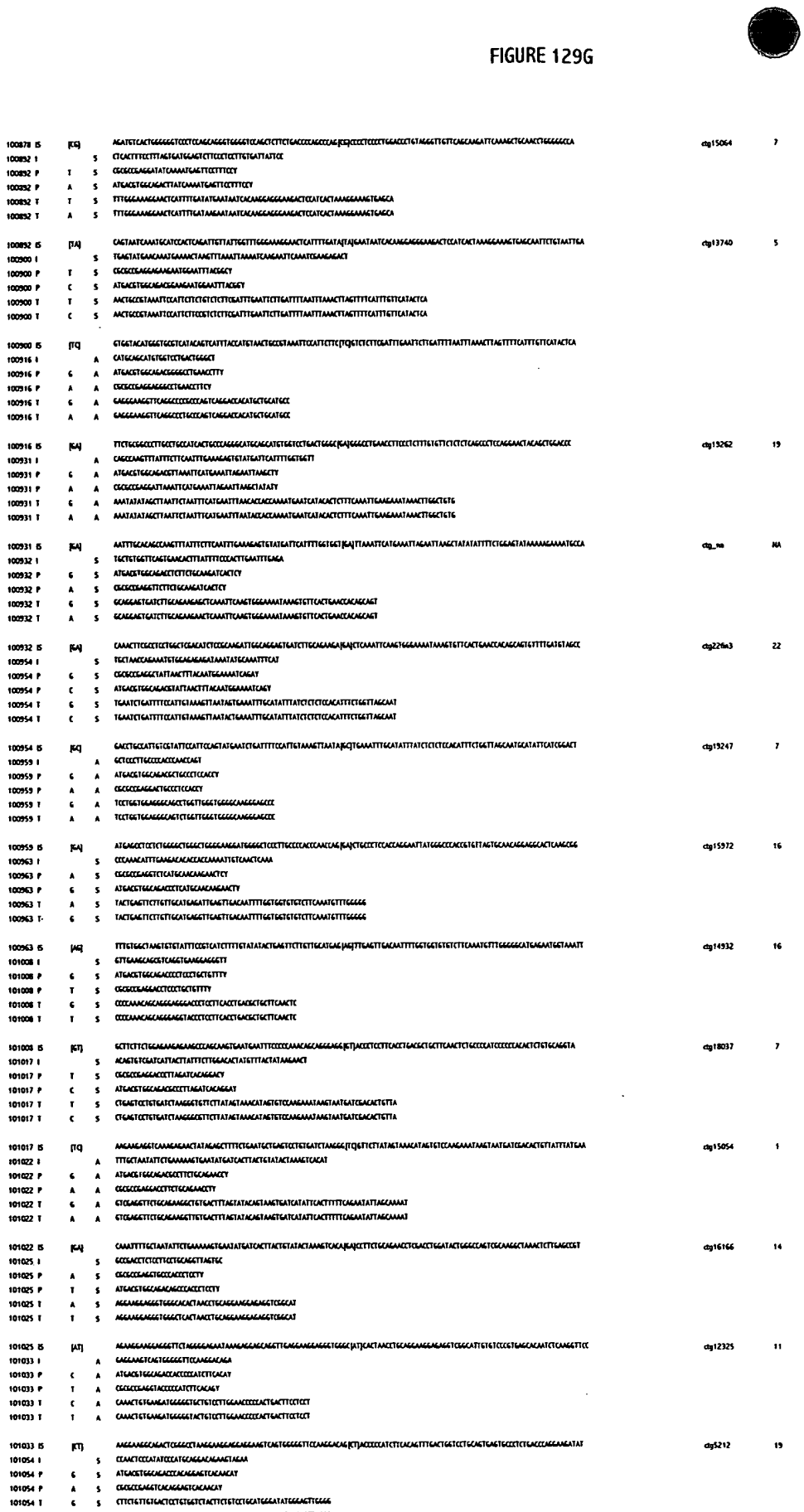


FIGURE 129G

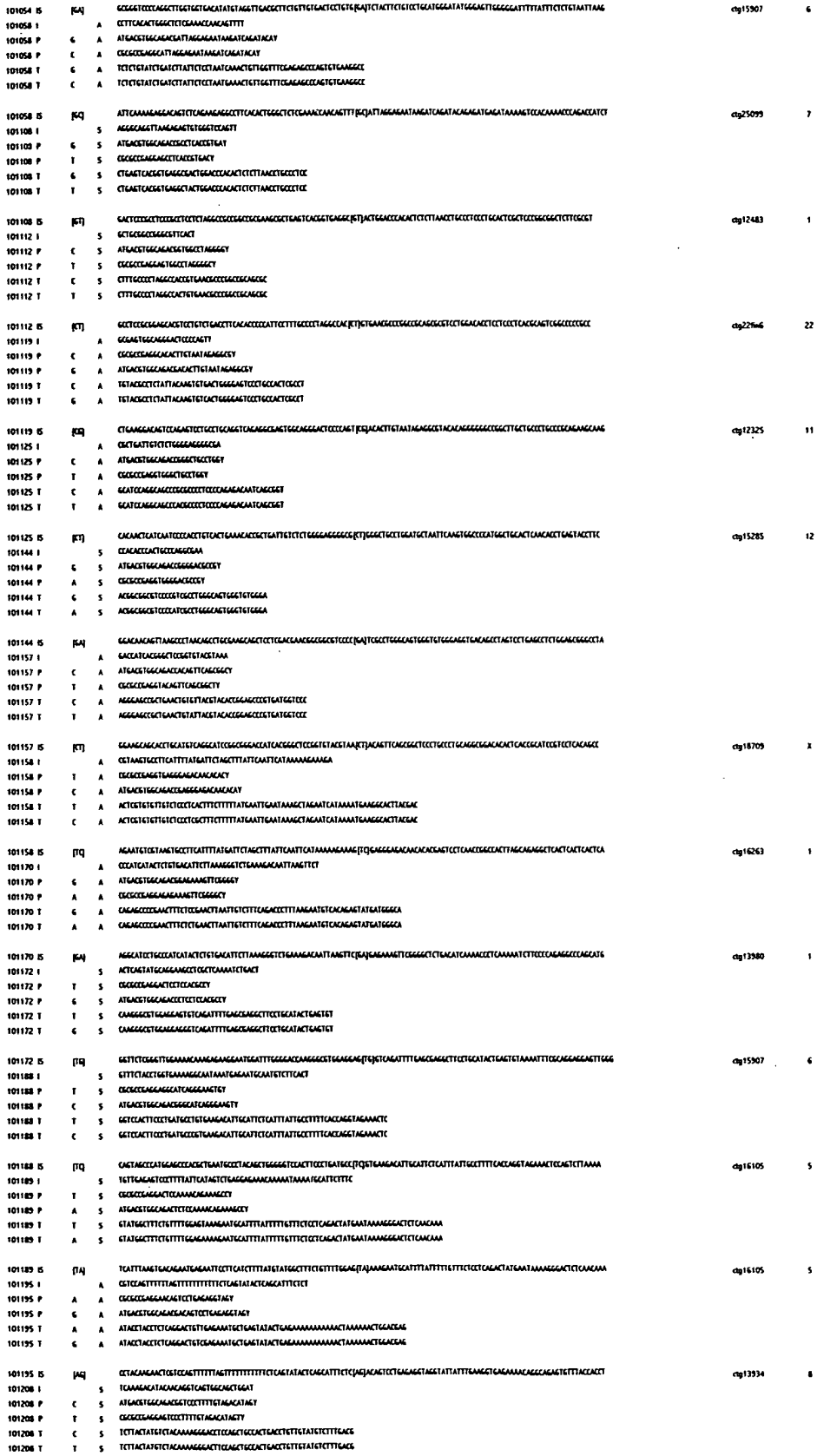
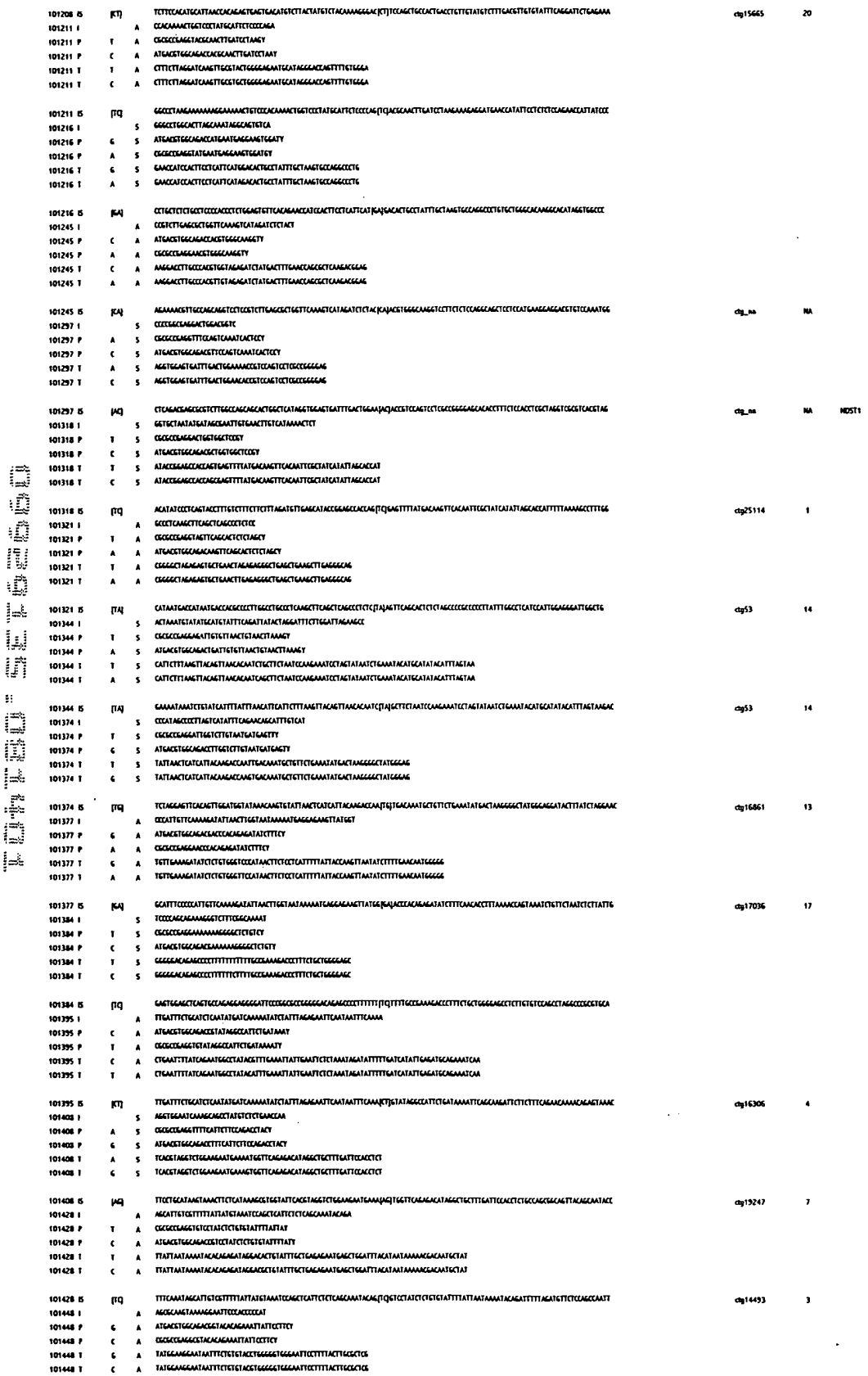


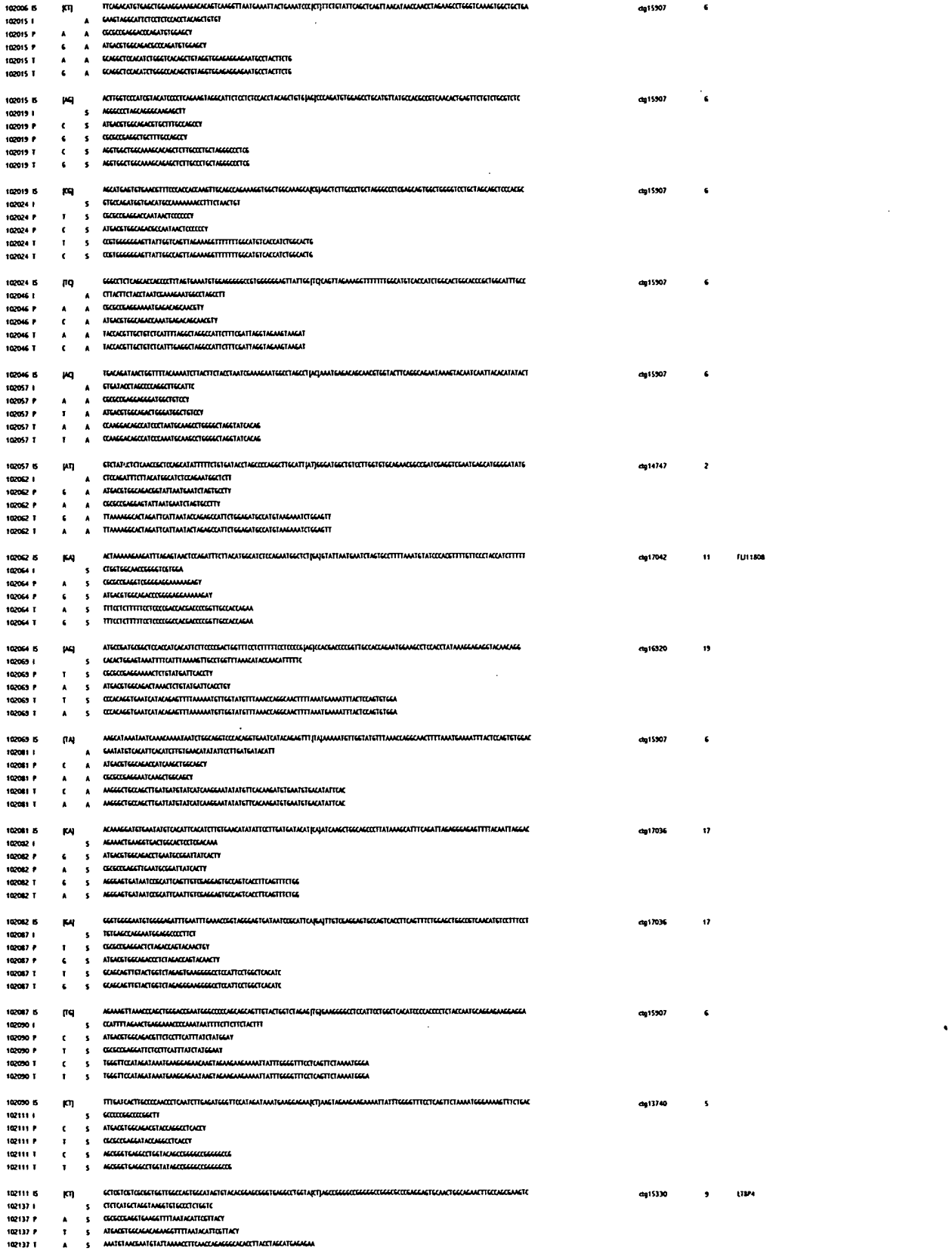
FIGURE 129G

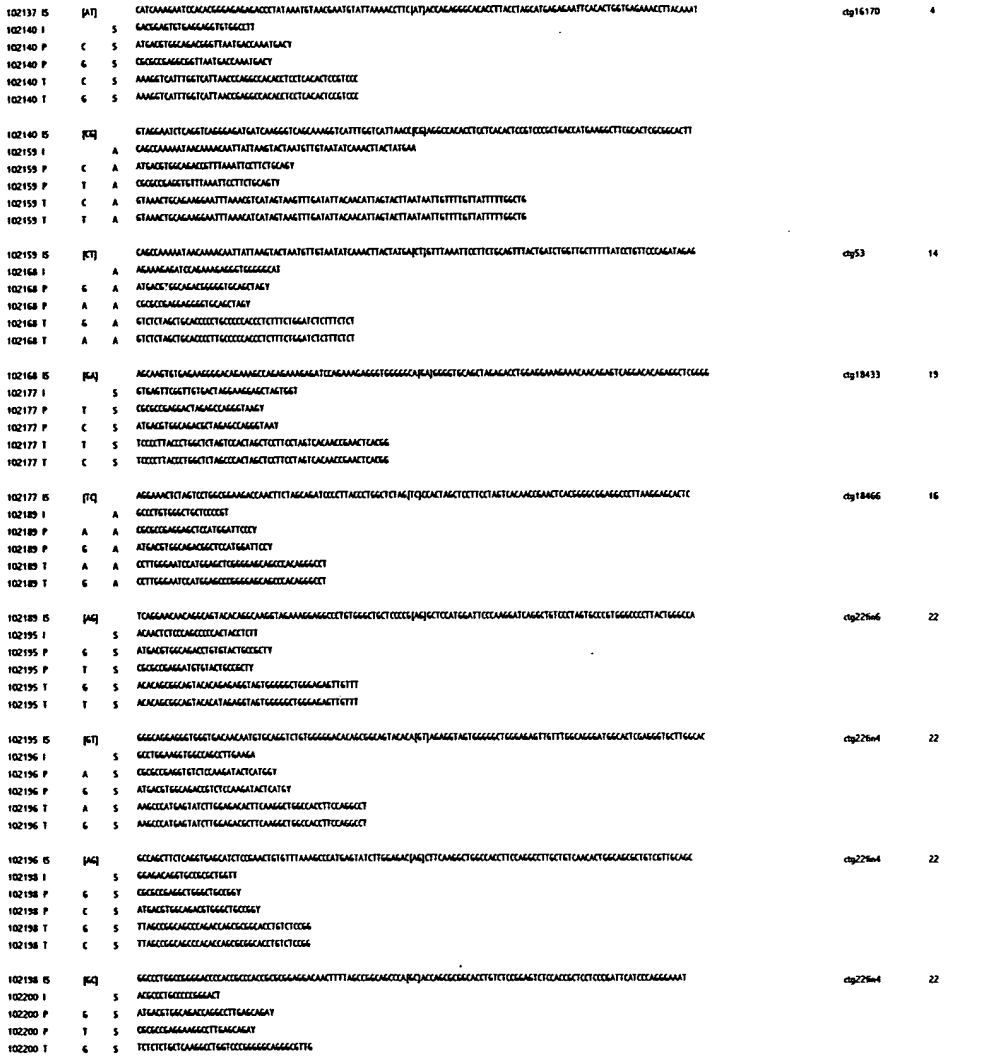


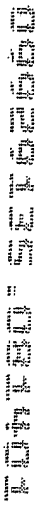


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FIGURE 129G







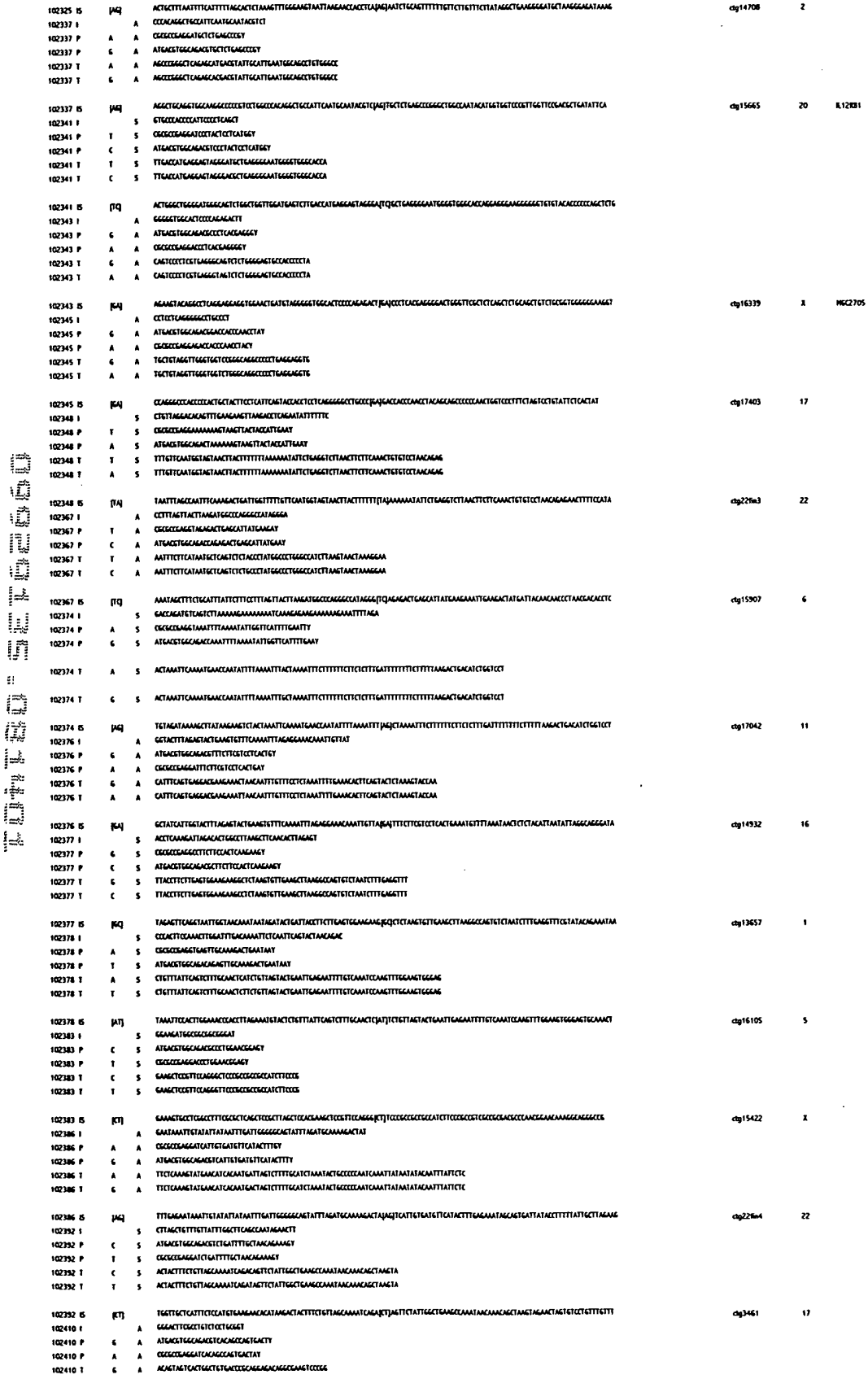
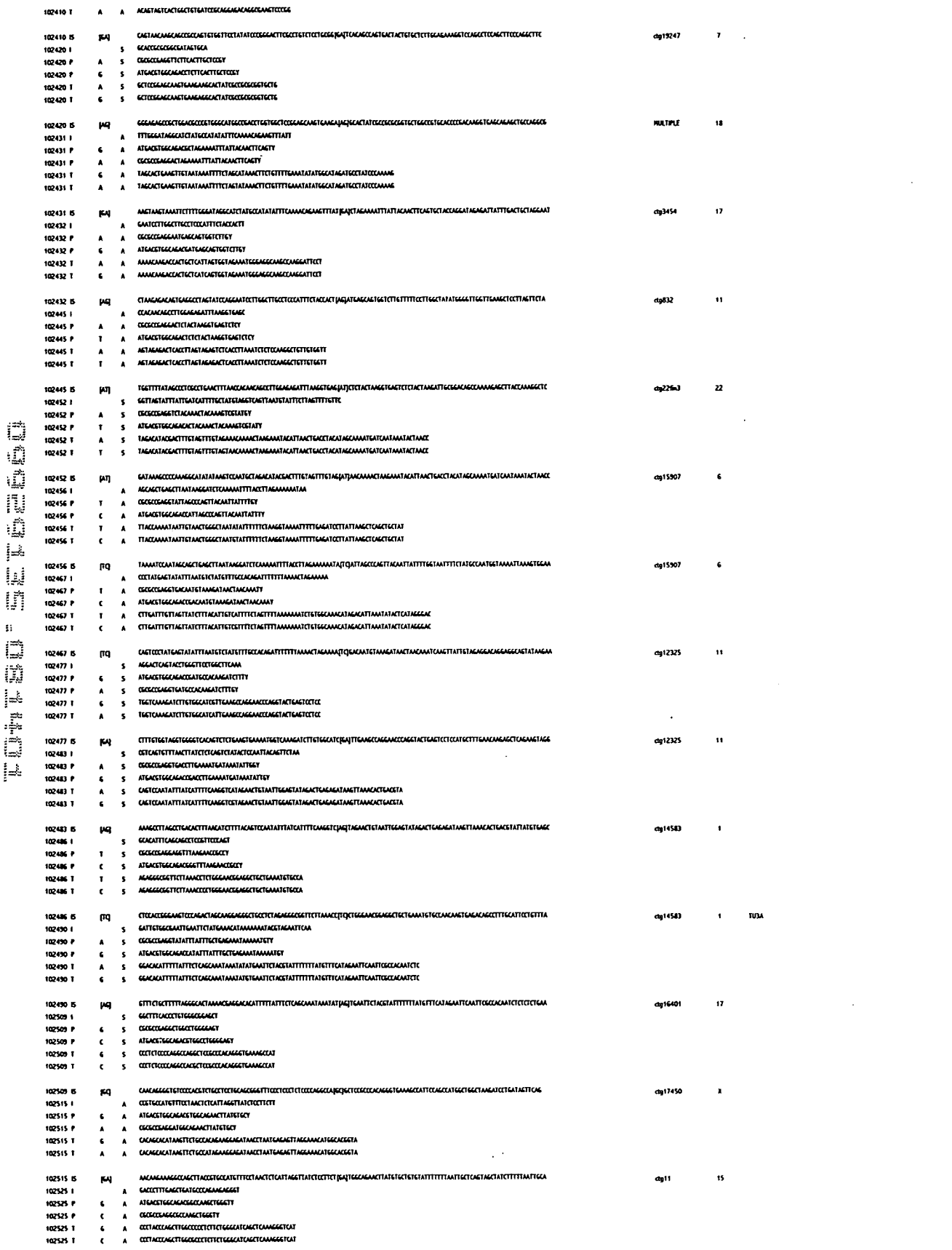
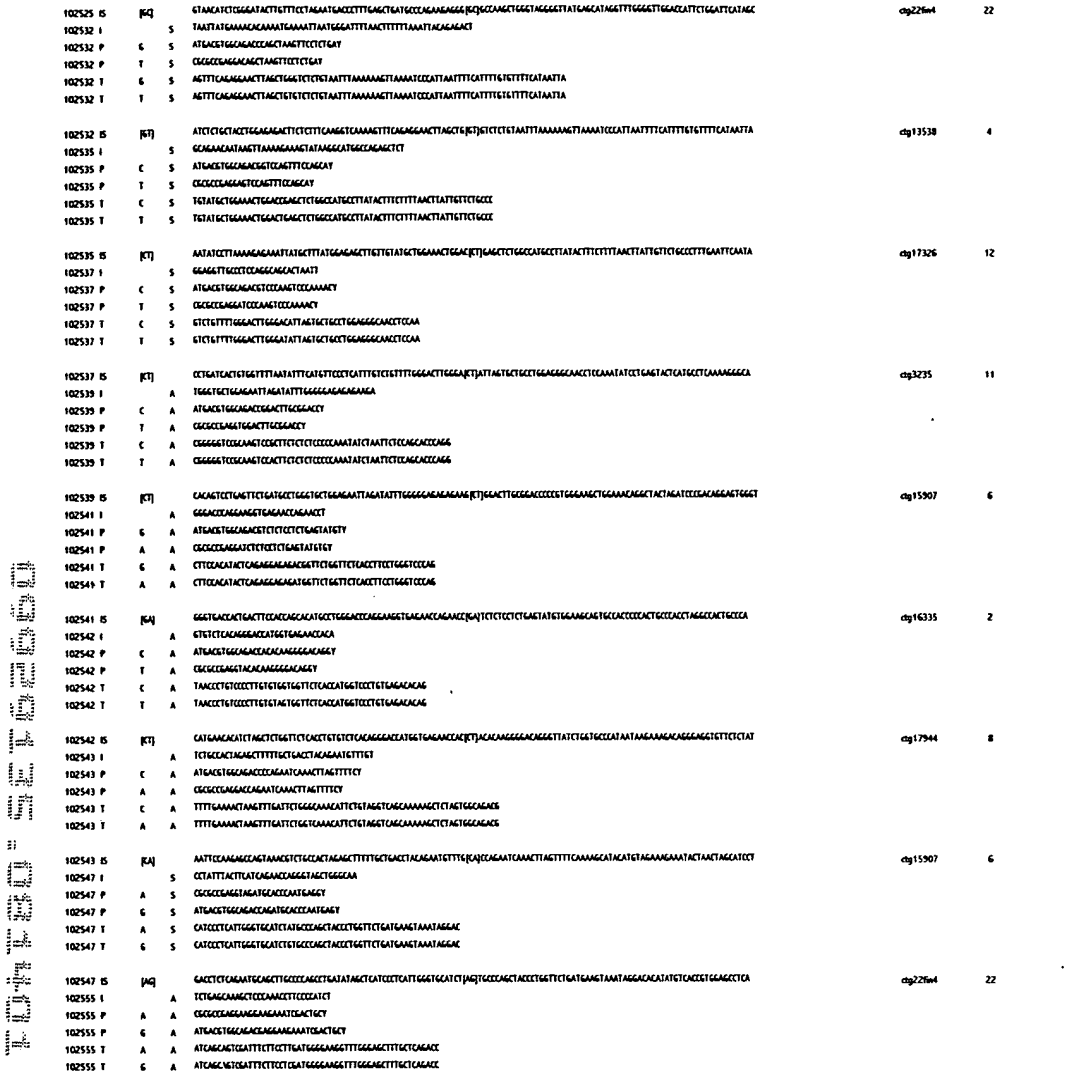
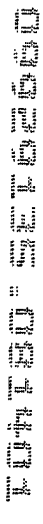


FIGURE 129G

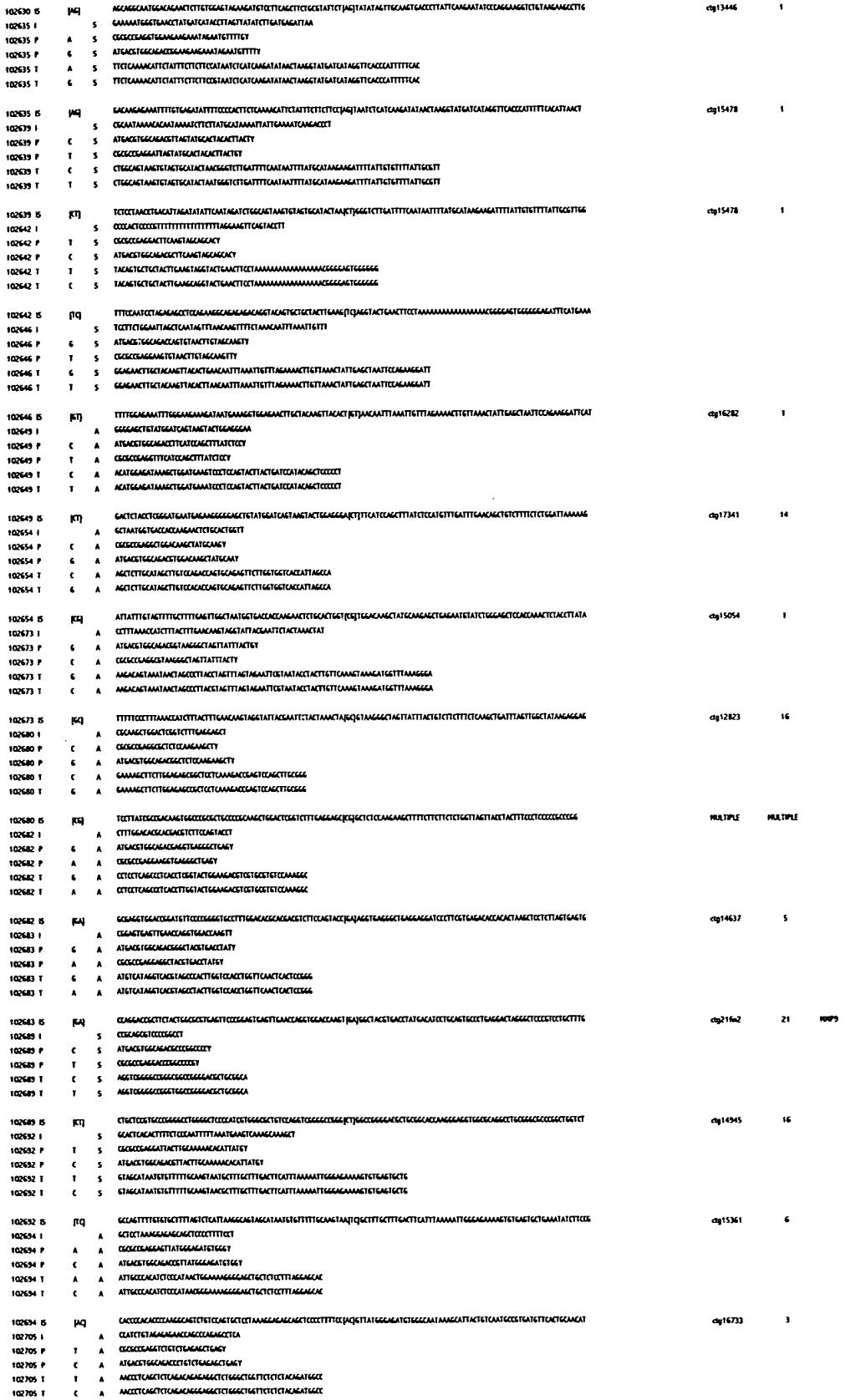


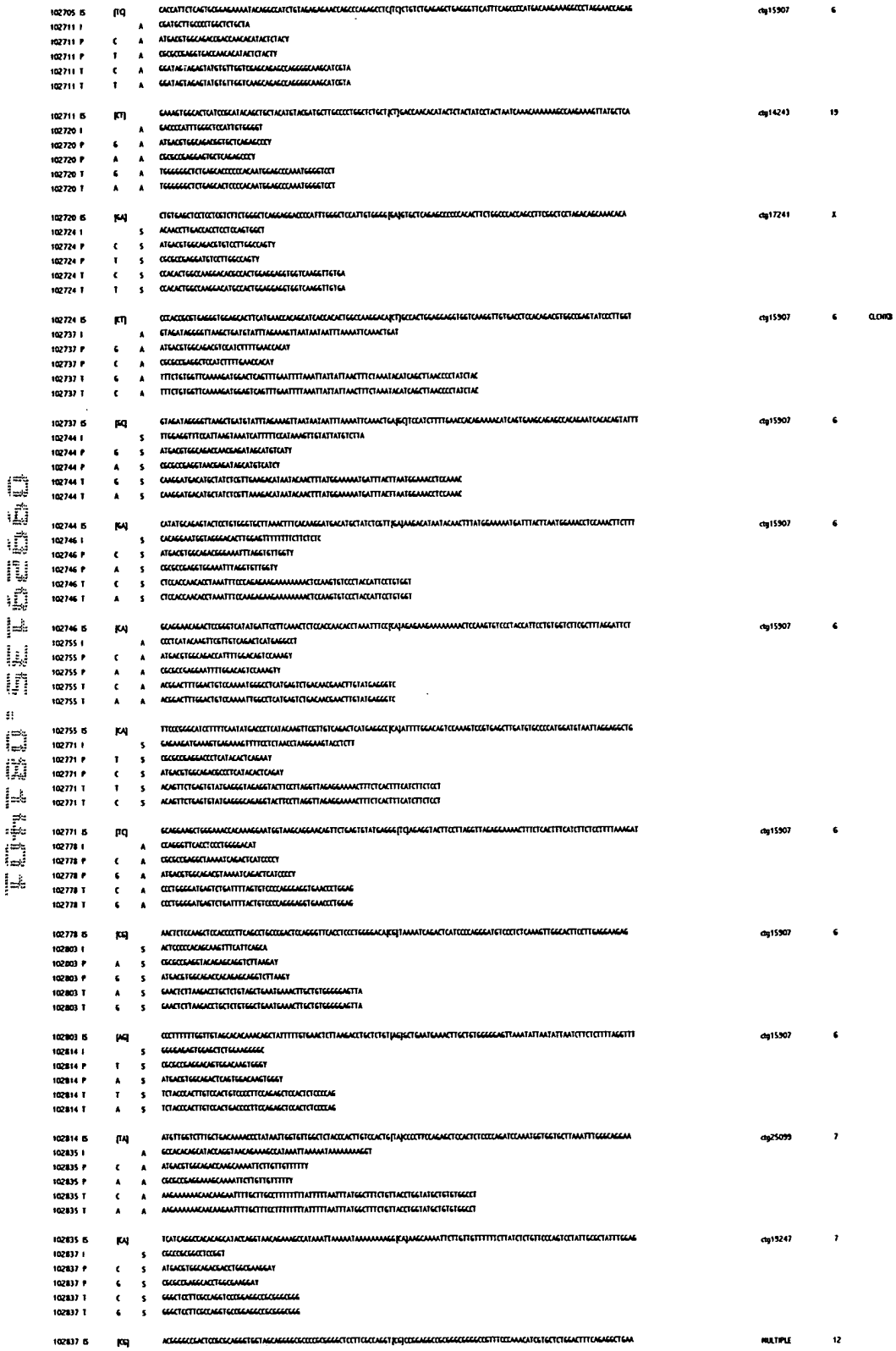


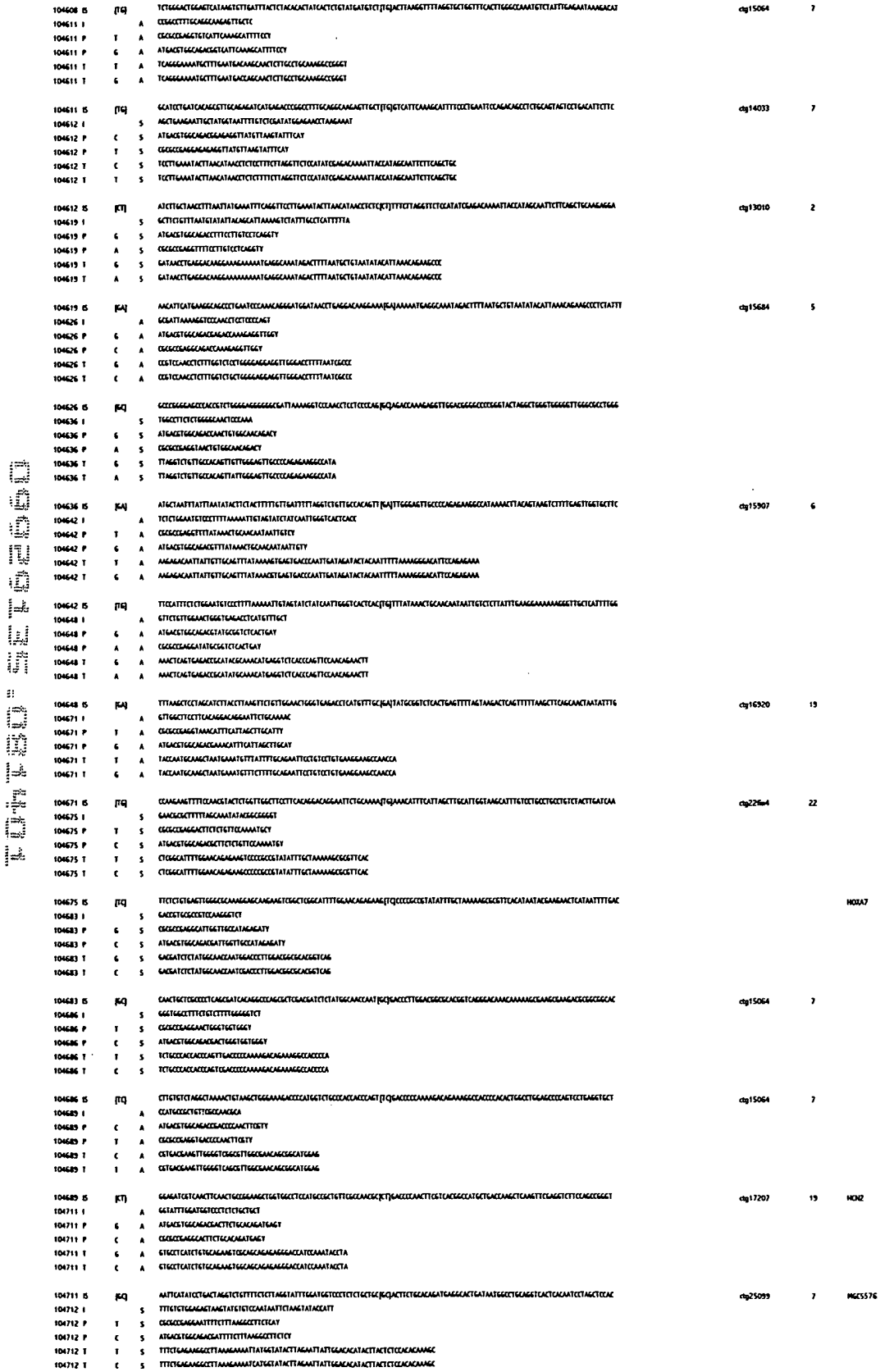


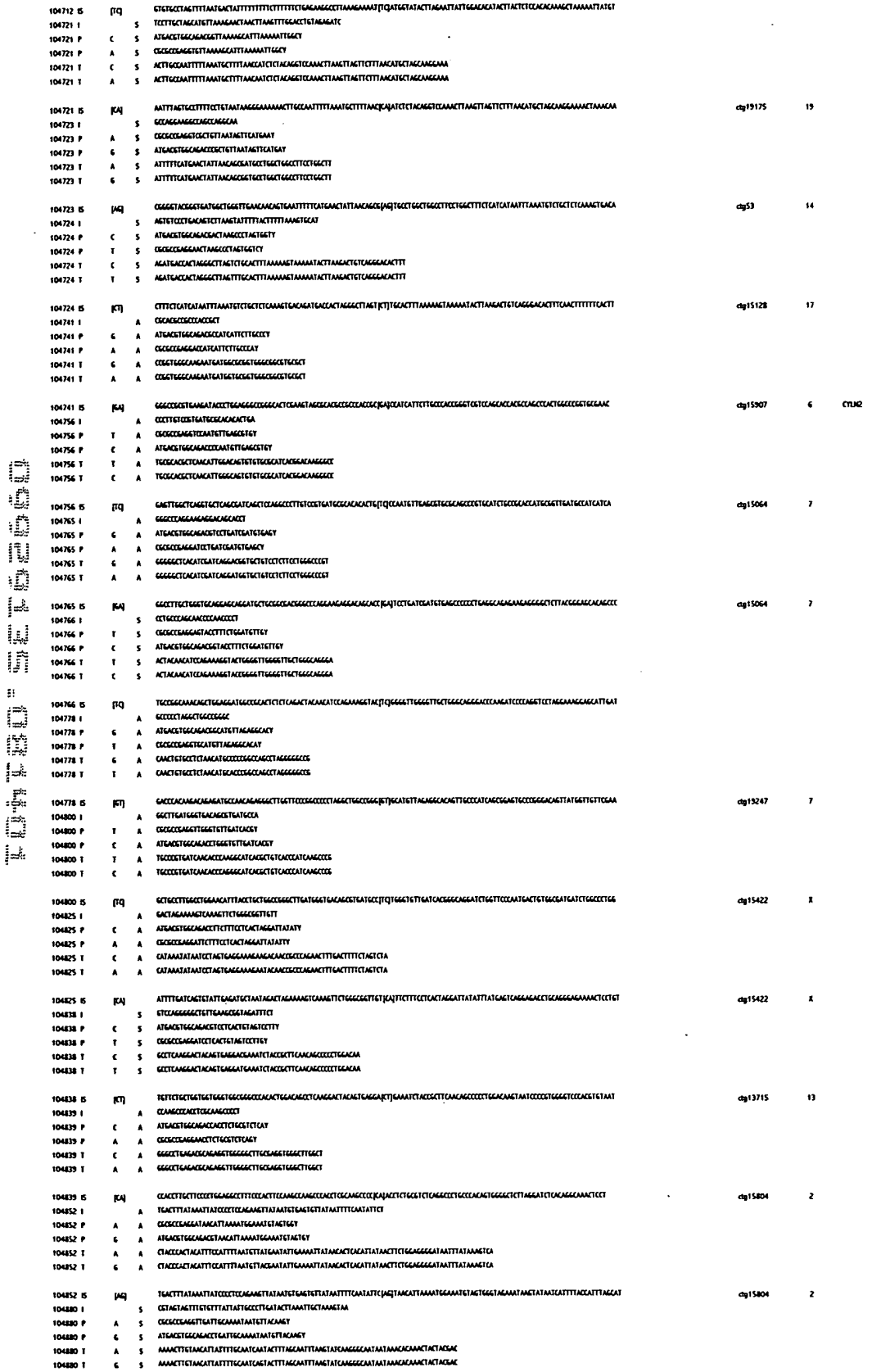
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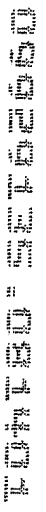
FIGURE 129G

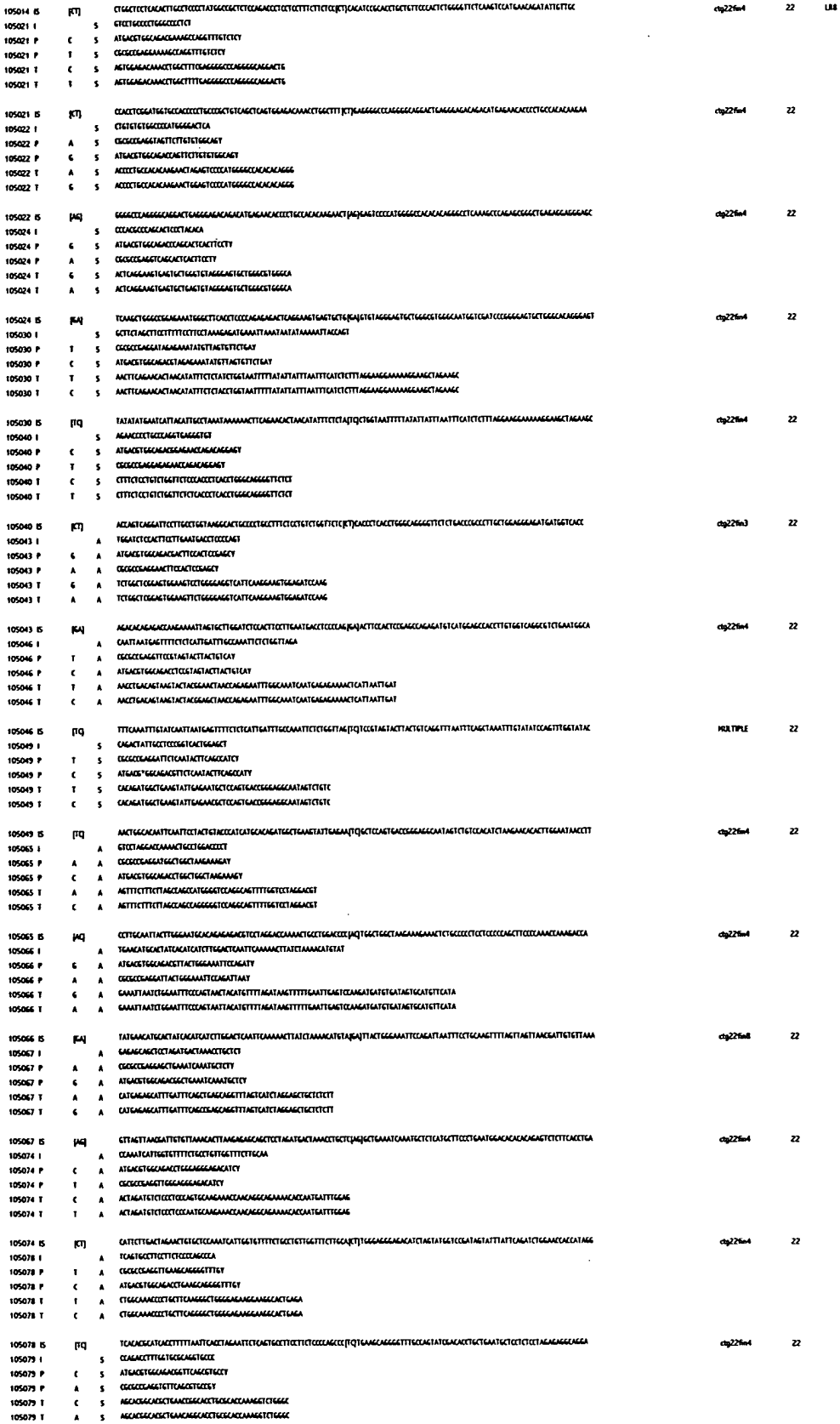
















Replacement Sheet
Replacement Sheet
Replacement Sheet

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105080 P	T	S	CGCGCCGAGGAATGGTGATGGTGTCGY				
105080 P	C	S	ATGACGTGGCAGACSATGGTGATGGTGTCGY				
105080 T	T	S	CCGCCGACACCATCACCATCGCCACCCCCGAGAGCCTGACAGAGC				
105080 T	C	S	CCGCCGACACCATCACCATCGCCACCCCCGAGAGCCTGACAGAGC				
105080 IS	[TC]		CACCATGGACGAGGAGACGCGCGCTGGGCCCAGAGGCGGCTGCCGCGCGACACCATCACCAT[TC]GCCCACCCCCGCAGAGCCTGACAGAGCAGGTGGCCATCACGCTGCCCTCGGCCATCAGCGAG	ctg226m4	22	E4F1
105081 I		S	TGTCTATTTATTGGTTATTGCTGATAATCTAAGTAATGAAAATGACTATATTCCTAAACAT				
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105081 P	C	S	ATGACGTGGCAGACGTGCTCAACCTCTAGAAGY				
105081 T	G	S	GTAAACTTCTAGAGGTTGAGCAGTGTTTAGGAATATAGTCATTTTCATTACTTAGATTATCAGCAATAACCAATAAATAGACA				
105081 T	C	S	GTAAACTTCTAGAGGTTGAGCACTGTTTAGGAATATAGTCATTTTCATTACTTAGATTATCAGCAATAACCAATAAATAGACA				
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105084 T	G	A	GCAAAGCGACCCCTACCCTGGCAACGGCTGCCAGCGGC				
105084 T	A	A	GCAAAGCGACCCCTACCCTGGCAACGGCCGCCAGCGGC				
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105085 P	C	S	ATGACGTGGCAGACGTCATGTTCTTTTATCTGCTCY				
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105090 P	T	S	CGCGCCGAGGAGGTGCTTATGACTCTTTCY				
105090 T	G	S	AGTGGAAAGAGTCATAAGCACCGAACACTAAAGAAAGCAGATTCTCTGAAATAATCAGCAATGAGTTT				
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105094 P	T	S	CGCGCCGAGGACTGTGCTTTTGCTTCTTY				
105094 T	C	S	GCCTAAGAAGCAAAAGCACAGCCAAGCTTAGGGAGCCTGTATTGATTGTCAGCTGCTTTCAGA				
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105095 P	T	S	CGGCCGAGGAAACTATTCCATTACAGCGCTY				
105095 T	G	S	TTTAAGCGTGTAATGGAATAGTTGCCTGCCAACTATTTATATCAAGTAATTTTAAAGTAATATGGTTGACTAATAAAATATTTA				
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105103 P	T	A	CGCGCCGAGGTCAAGTGGCTATTTTACAGGY				
105103 P	C	A	ATGACGTGGCAGACCSAAGTGGCTATTTTACAGGY				
105103 T	T	A	TTTACCTGTAAAATAGCCACTTCATTACGGAGTTGACTTTCTTGTTTTGTGGGGAATCTC				
105103 T	C	A	TTTACCTGTAAAATAGCCACTTCGTTACGGAGTTGACTTTCTTGTTTTGTGGGGAATCTC				
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105105 I		S	AGCCTTAGTGGGAATCCACCCTACATAAAGAAATCTTTCCAGA				
105105 P	A	S	CGCGCCGAGGTTTTAGGAAAGGACTCAGCY				
105105 P	G	S	ATGACGTGGCAGACCTTTAGGAAAGGACTCAGCY				
105105 T	A	S	ATTAGCTGAGTCCTTTCCTAAAACTGGAAAGATTTCTTTATGTAGGGTGGATTCCCACTAAGGCTGG				
105105 T	G	S	ATTAGCTGAGTCCTTTCCTAAAGCTGGAAAGATTTCTTTATGTAGGGTGGATTCCCACTAAGGCTGG				
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105107 I		A	GCAACACTTGGTAATTCCCCATGTAATAGAGATGAACCTT				
105107 P	A	A	CGCGCCGAGGATCATCTGCTTTCTTAGCTATGY				
105107 P	G	A	ATGACGTGGCAGACGTCATCTGCTTTCTTAGCTATY				
105107 T	A	A	CACACATAGCTAAGAAAGCAGATGATAGGTTCATCTCTATTACATGGGGAATTACCAAGTGGTTGCCT				
105107 T	G	A	CACACATAGCTAAGAAAGCAGATGACAGGTTCATCTCTATTACATGGGGAATTACCAAGTGGTTGCCT				
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105108 I		A	CTGCCTTGTACCAGCATTACAAATAATCCAGCCACAAAT				
105108 P	G	A	ATGACGTGGCAGACGTAAATGCTTTTCATTTCTGCTY				
105108 P	A	A	CGCGCCGAGGATAAATGCTTTTCATTTCTGCTY				
105108 T	G	A	AGACAGCAGAAATGAAAAGCATTTACTTTGTGGCTGGATTATTTGTAATGCTGGTACAAGGCAGCT				
105108 T	A	A	AGACAGCAGAAATGAAAAGCATTTAATTTTGTGGCTGGATTATTTGTAATGCTGGTACAAGGCAGCT				
105108 IS	[GA]		GTCTTGAAGGGAAACGTTGCCAGCTGCCTTGTACCAGCATTACAAATAATCCAGCCACAAA[GA]TAAATGCTTTTCATTTCTGCTGTCTGTCAGAACACAGAATGGGGGTAGGGTGAGGGGGGC	ctg53	14	
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105112 P	G	A	ATGACGTGGCAGACGCAGGGATTGAGTACACY				
105112 T	A	A	GACTTGTGTACTCAATCCCTGTCACTACATGAAATTTATTTGATTCTAATGTAAATGGTTCTTGATCTACCTGGAA				
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FIGURE 129G

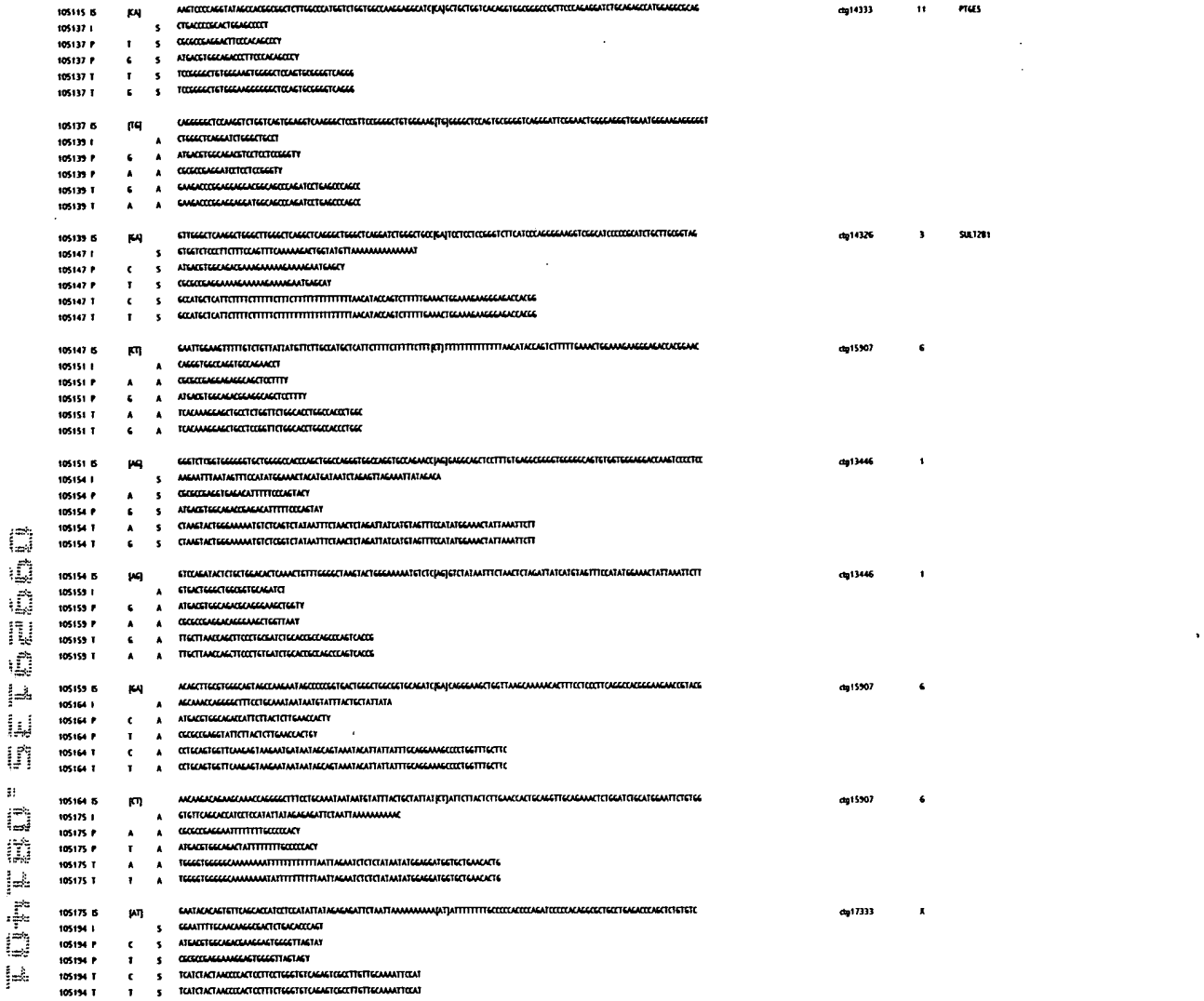
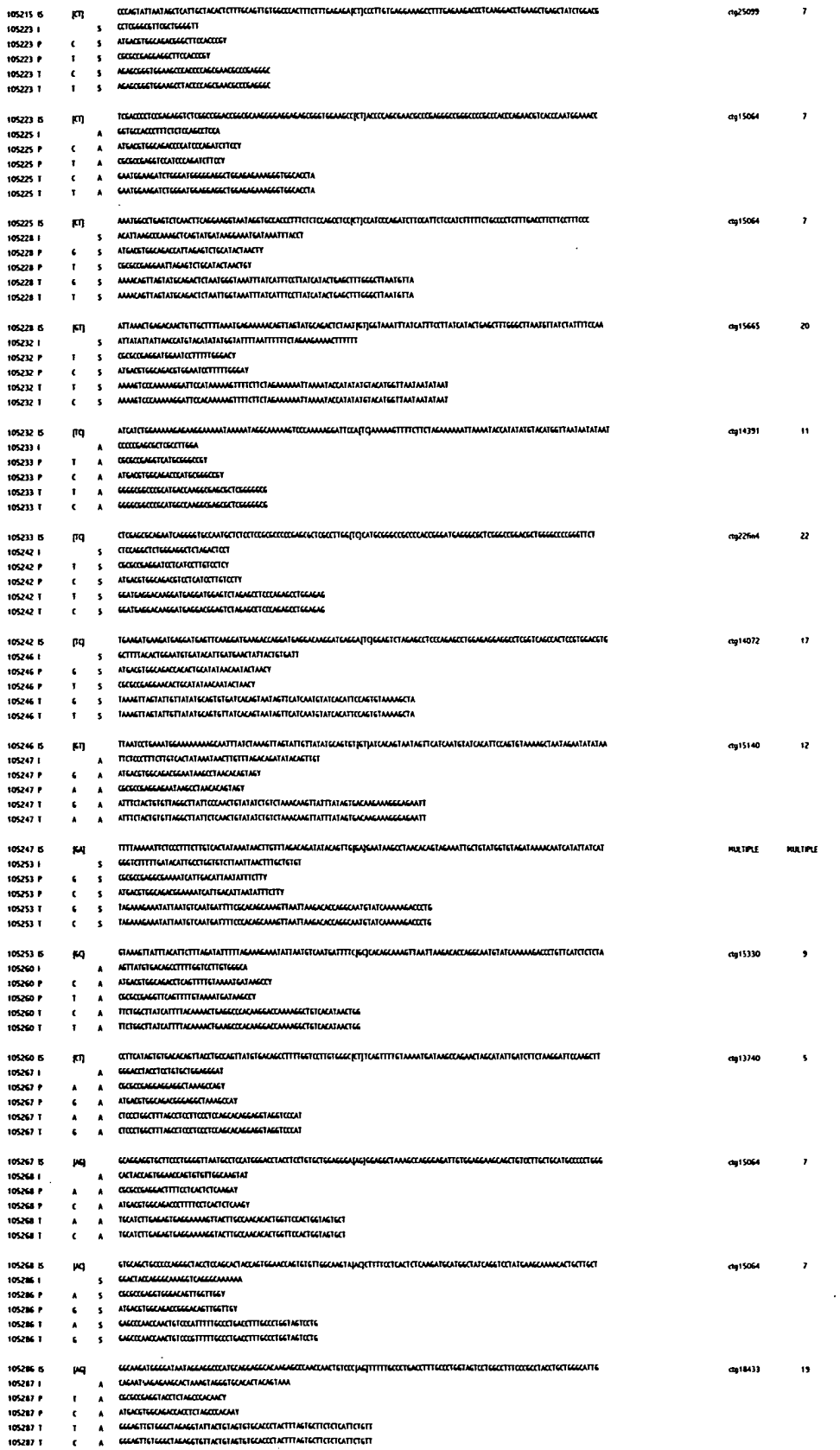

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105139 P G A ATGACGTGGCAGACGTCCTCCTCCGGGTY
105139 P A A CGCGCCAGGAGTCCTCCTCCGGGTY
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105151 P A A CGCGCCGAGGAGAGGCAGCTCCTTTY
105151 P G A ATGACGTGGCAGACGCAGGCAGCTCCTTTY
105151 T A A TCACAAAGCAGCTGCCTCTGGTTCTGGCACCTGGCCACCCTGGC
105151 T G A TCACAAAGCAGCTGCCTCCGGTTCTGGCACCTGGCCACCCTGGC
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105154 I S AAGAATTTAATAGTTTCCATATGGAAACTACATGATAATCTAGAGTTAGAAATTATAGACA
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105154 P G S ATGACGTGGCAGACCGAGACATTTTCCCAGTAT
105154 T A S CTAAGTACTGGGAAAAATGTCTCAGTCTATAATTTCTAACTCTAGATTATCATGTAGTTTCCATATGGAAACTATTAAATTCTT
105154 T G S CTAAGTACTGGGAAAAATGTCTCGGTCTATAATTTCTAACTCTAGATTATCATGTAGTTTCCATATGGAAACTATTAAATTCTT
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105159 I A GTGACTGGGCTGGCGGTGCAGATCT
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105164 I A AGCAAACCAGGGGCTTTCCTGCAAATAATAATGTATTTACTGCTATTAT
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105164 P T A CGCGCCGAGGTATTCTTACTCTGAACCACTGY
105164 T C A CCTGCAGTGGTTCAAGAGTAAGAATAATAATAGCAGTAAATACATTATTATTTGCAGGAAAGCCCCTGGTTTGCTTC
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105196 I A CCTTCCTCCAGGTCTGGAGCTCAGTAT
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105196 P A A CGCGCCGAGGATCCTGTGGCTTCTACCY
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105196 T A A GTGAGGTAGAGCCACAGGATTACTGAGCTCCAGACCTGGAGGAAGGTA
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105197 T C S TCTCCCTCCCGCCTACATCCCGACCCTGGGCTGGCTGCCC
105197 T T S TCTCCCTCCCGCCTACATTCCGGACCCTGGGCTGGCTGCCC
105197 IS [CT] GCTAGAGAGGGAGAGAGGCCTTGAGCAGAGAACCCCAACACTCTCCCTCCCGCCTACAT[CT]CCGGACCCTGGGCTGGCTGCCCCCTTGCGCACCTTCTCCGCTGCCGCGTCGATGGCCGAC ctg22fm4 22
105212 I A GATCCGGTACTAGTTCTGCGCTCCCCGT
105212 P G A ATGACGTGGCAGACGGAGACCGGCGY
105212 P A A CGCGCCGAGGAGACGACCGGCGY
105212 T G A CGTGGCGCCGGTCTCTCCCGCGAGCGCAGAACTAGTACCGGATCCC
105212 T A A CGTGGCGCCGGTCTCTCCCGCGAGCGCAGAACTAGTACCGGATCCC
105212 IS [CA] TCCGCCCCCTCTGTGTGGTCAGAAGCGGCTGGGGATCCGGTACTAGTTCTGCGCTCCCGC[GA]GAGACCGGCGCCACGGACACCCTTCTGGCCTAGACCCAGCCAGCCTCGTCCTACCTGGCC ctg22fm6 22
105214 I A AGTCGGGACTATAGCAAGTGATACAGATAAAATTTCCCAATTGCTGT
105214 P C A CGCGCCGAGGCACACATAGATCTGGAAACAY
105214 P G A ATGACGTGGCAGACACACATAGATCTGGAAACAAY
105214 T C A TATGTTGTTTCCAGATCTATGTGTGCAGCAATTGGGAAATTTATCTGTATCACTTGCTATAGTCCCCACTTT
105214 T G A TATGTTGTTTCCAGATCTATGTGTGCAGCAATTGGGAAATTTATCTGTATCACTTGCTATAGTCCCCACTTT
105214 IS [CG] AGGACTTTTTTGGAAAGTCGGGACTATAGCAAGTGATACAGATAAATTTCCCAATTGCTG[CG]ACACATAGATCTGGAAACAACATACCTTTAAGTACTACTCTGGCTCCTTTTGAATGAGCG ctg15907 6
105215 I S TCAGGGTCTTCTCAAAGGCTTTCCTCACAAGGGT
105215 P C S ATGACGTGGCAGACGTCTCTCAAAGAAAGTGGGY
105215 P T S CGCGCCGAGGATCTCTCAAAGAAAGTGGGY
105215 T C S GTGGCCCACTTTCTTTGAGAGACCCCTTGTGAGGAAAGCCTTTGAGAAGACCCTCAAG
105215 T T S GTGGCCCACTTTCTTTGAGAGATCCCTTGTGAGGAAAGCCTTTGAGAAGACCCTCAAG

FIGURE 129G



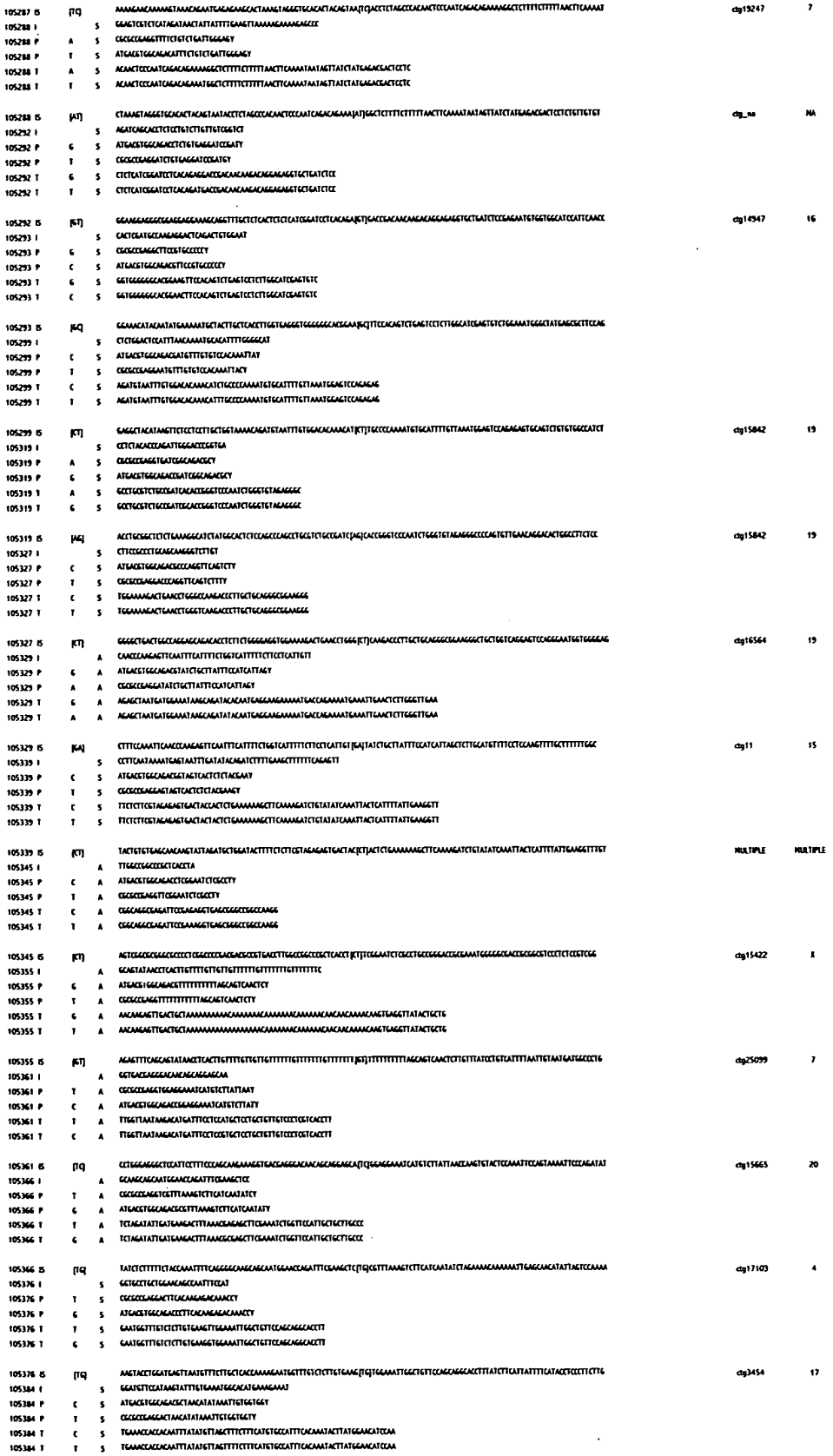


FIGURE 129G

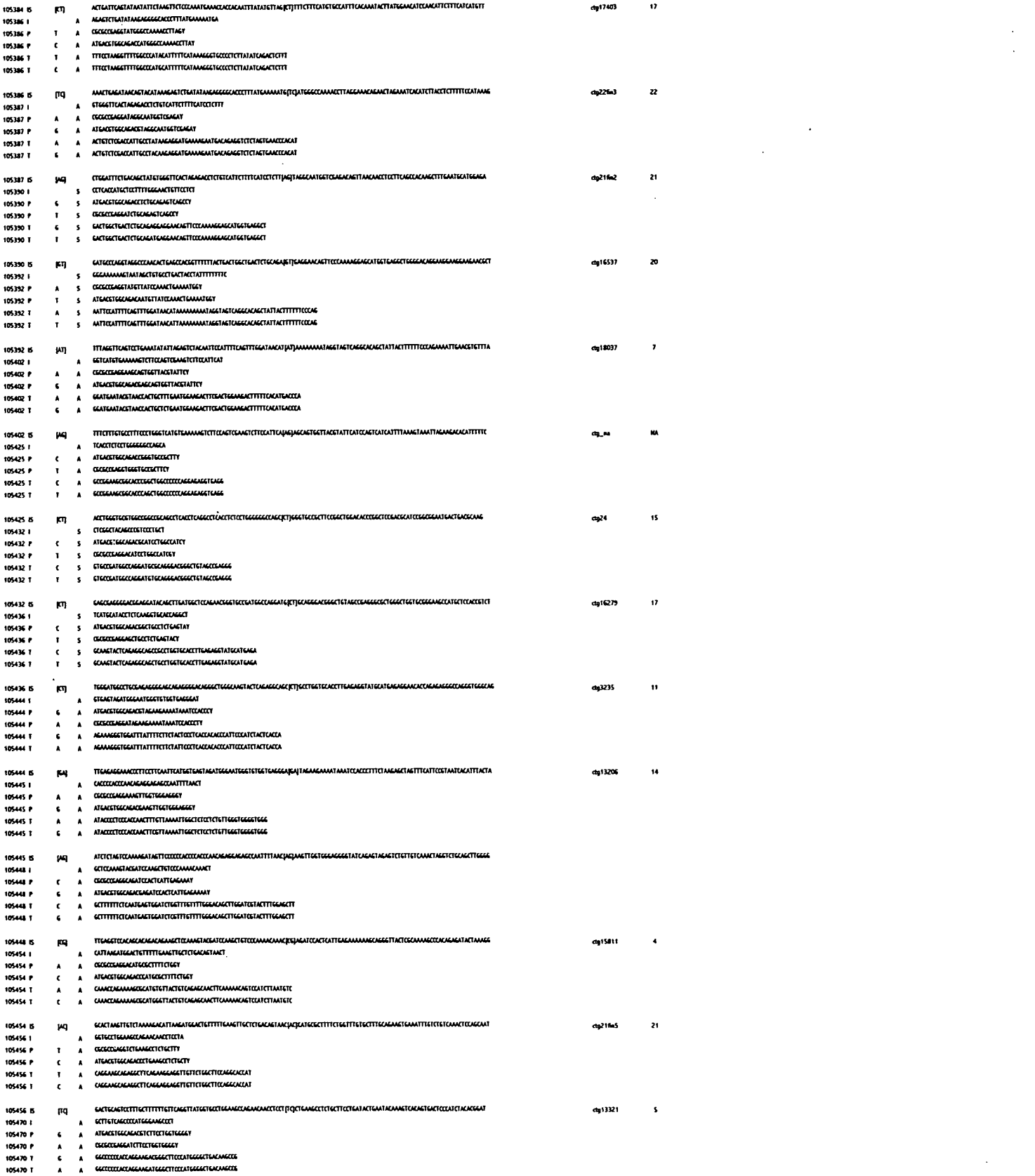
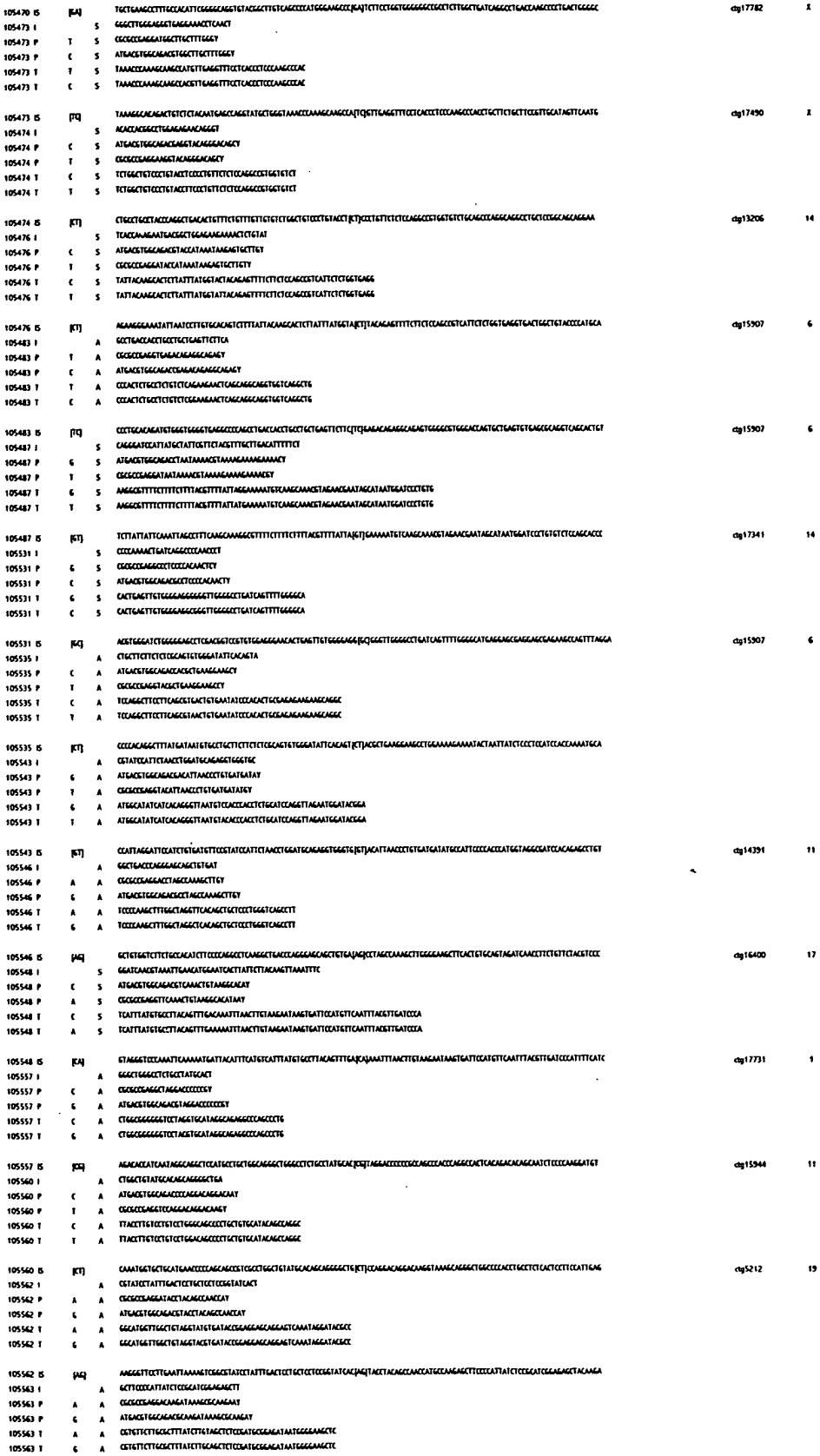
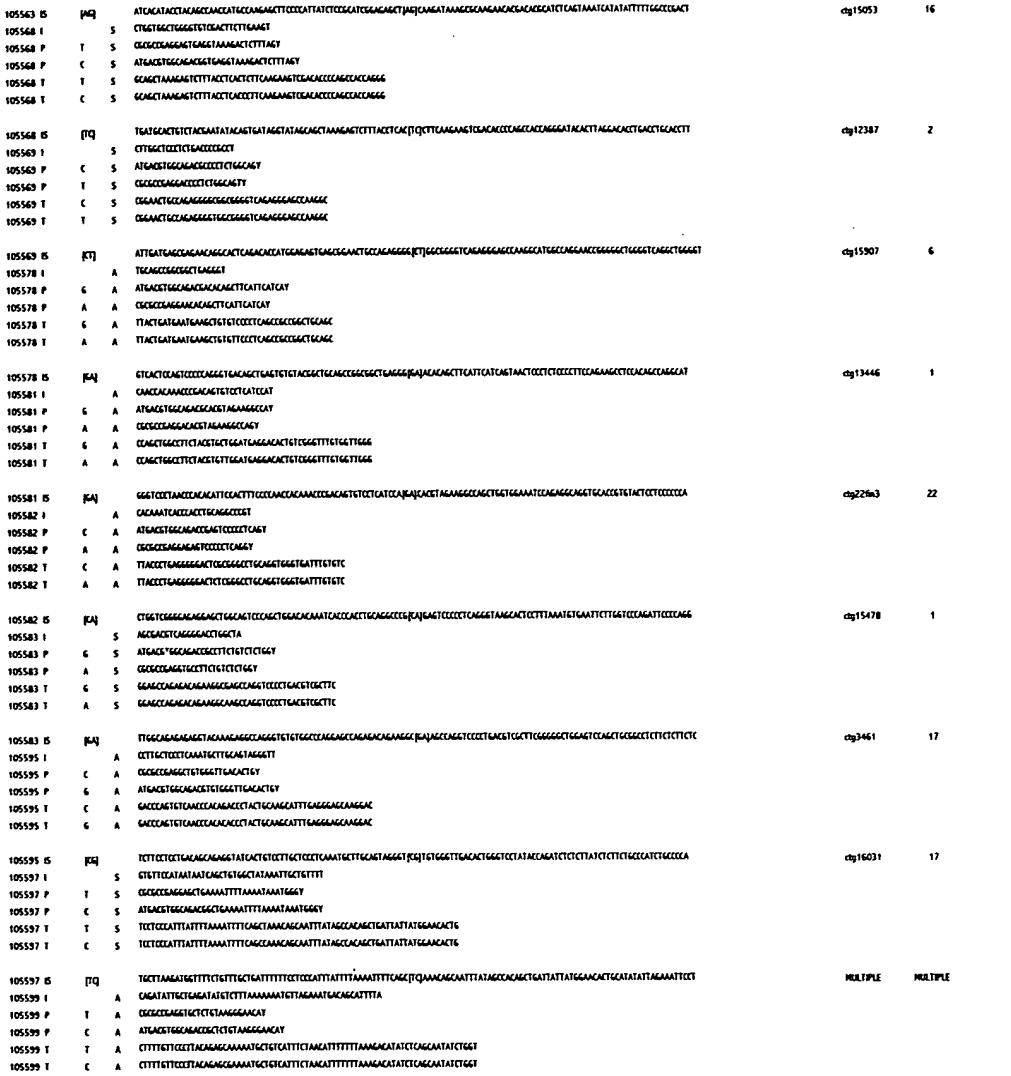
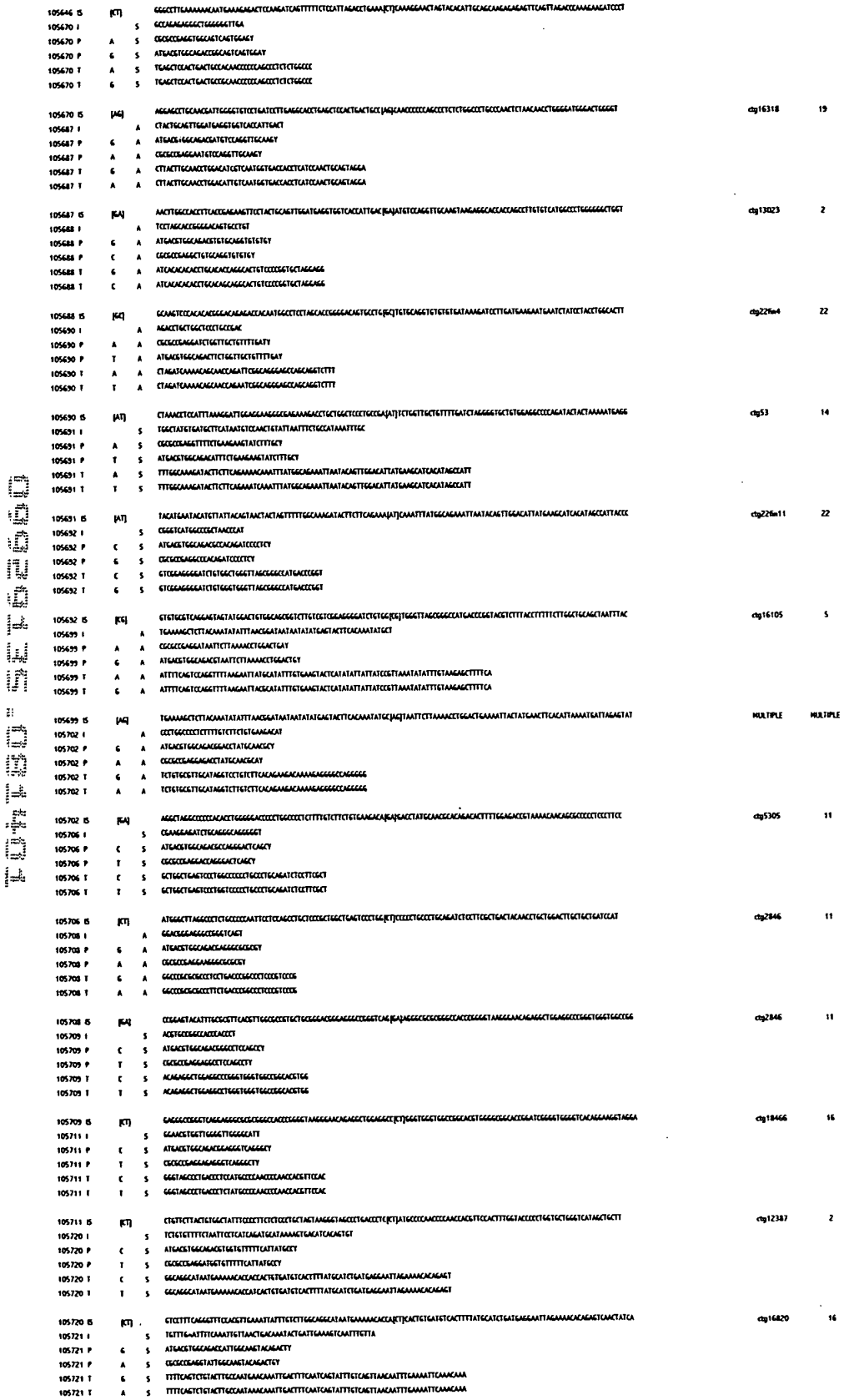


FIGURE 129G







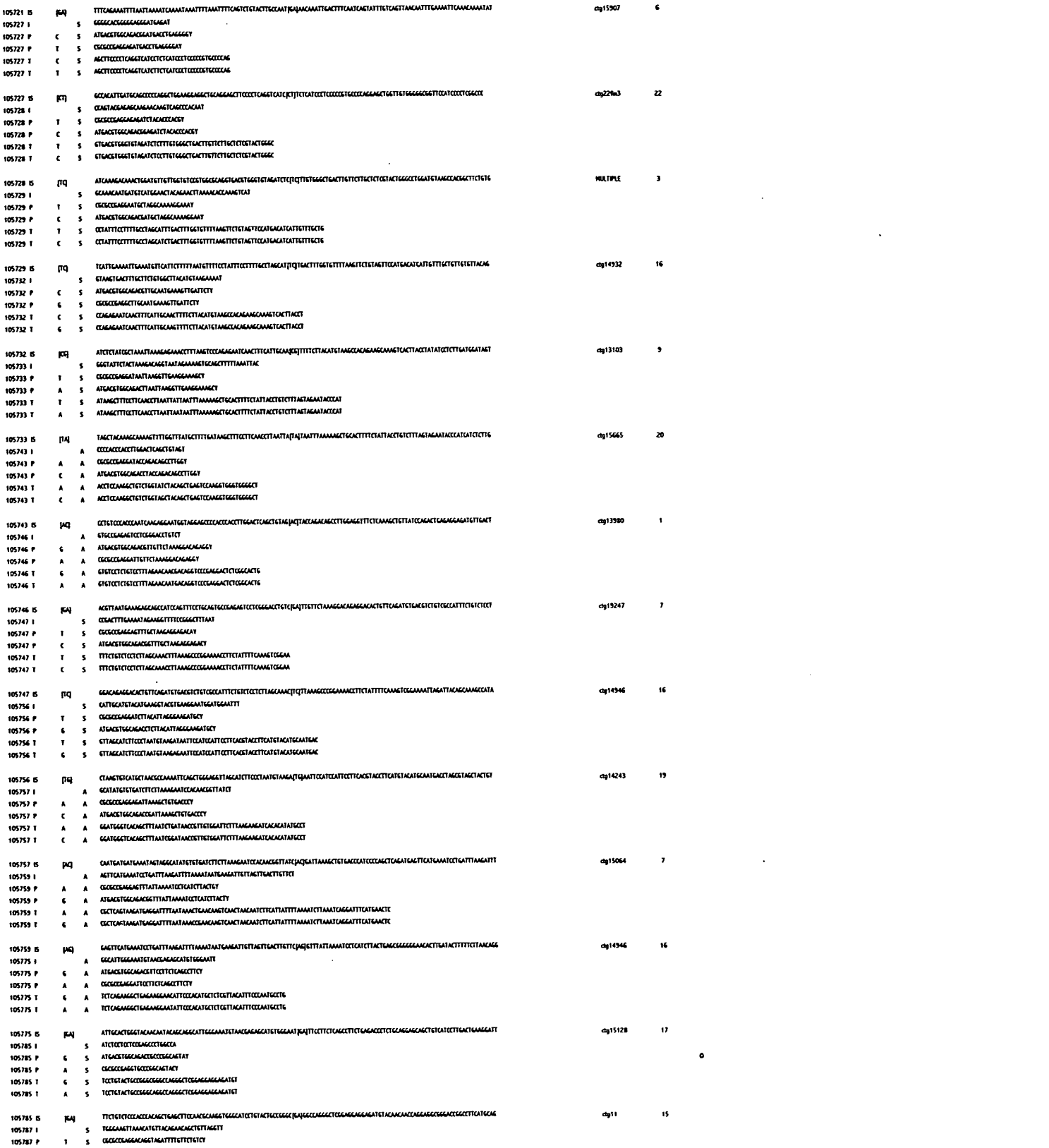
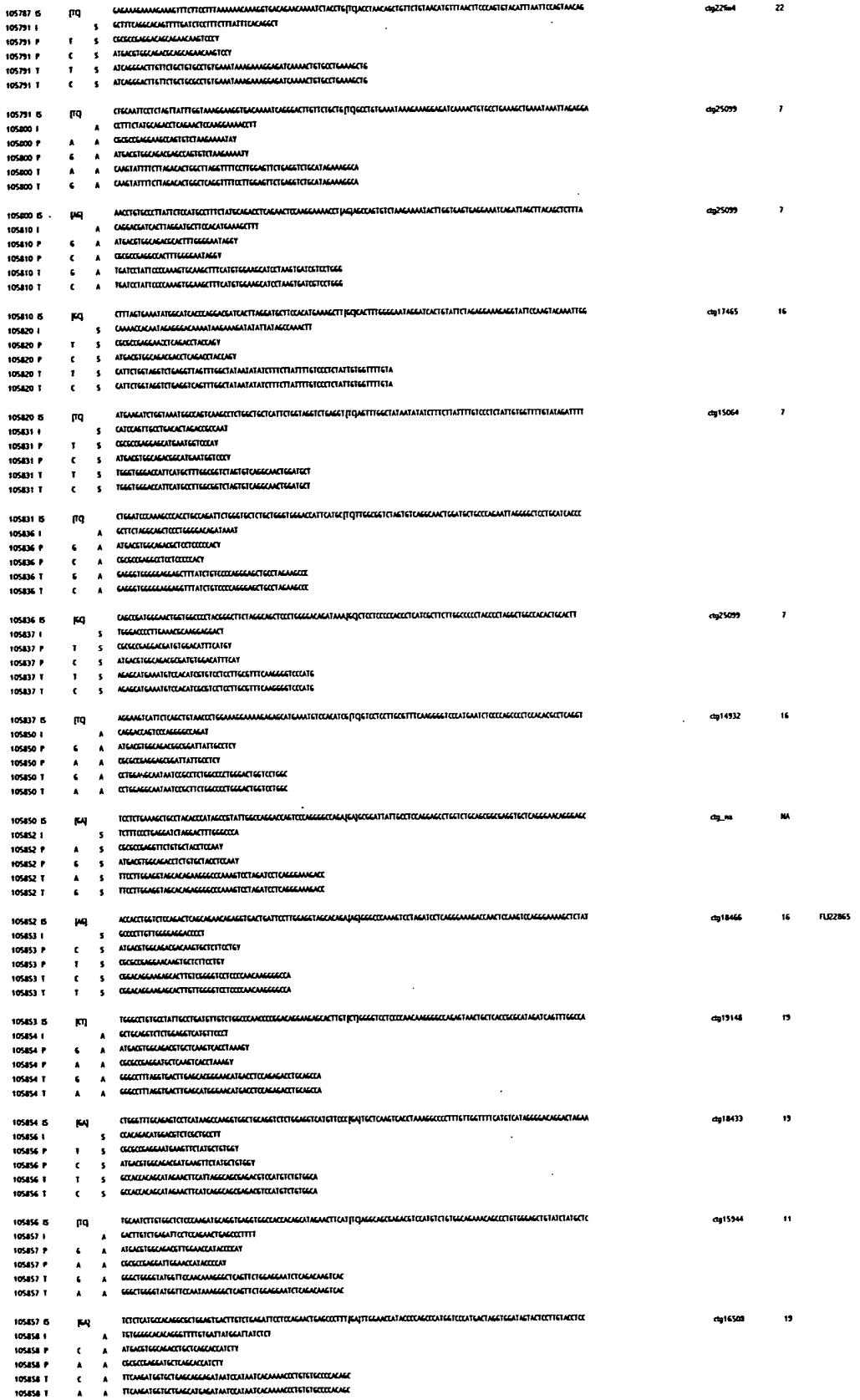


FIGURE 129G



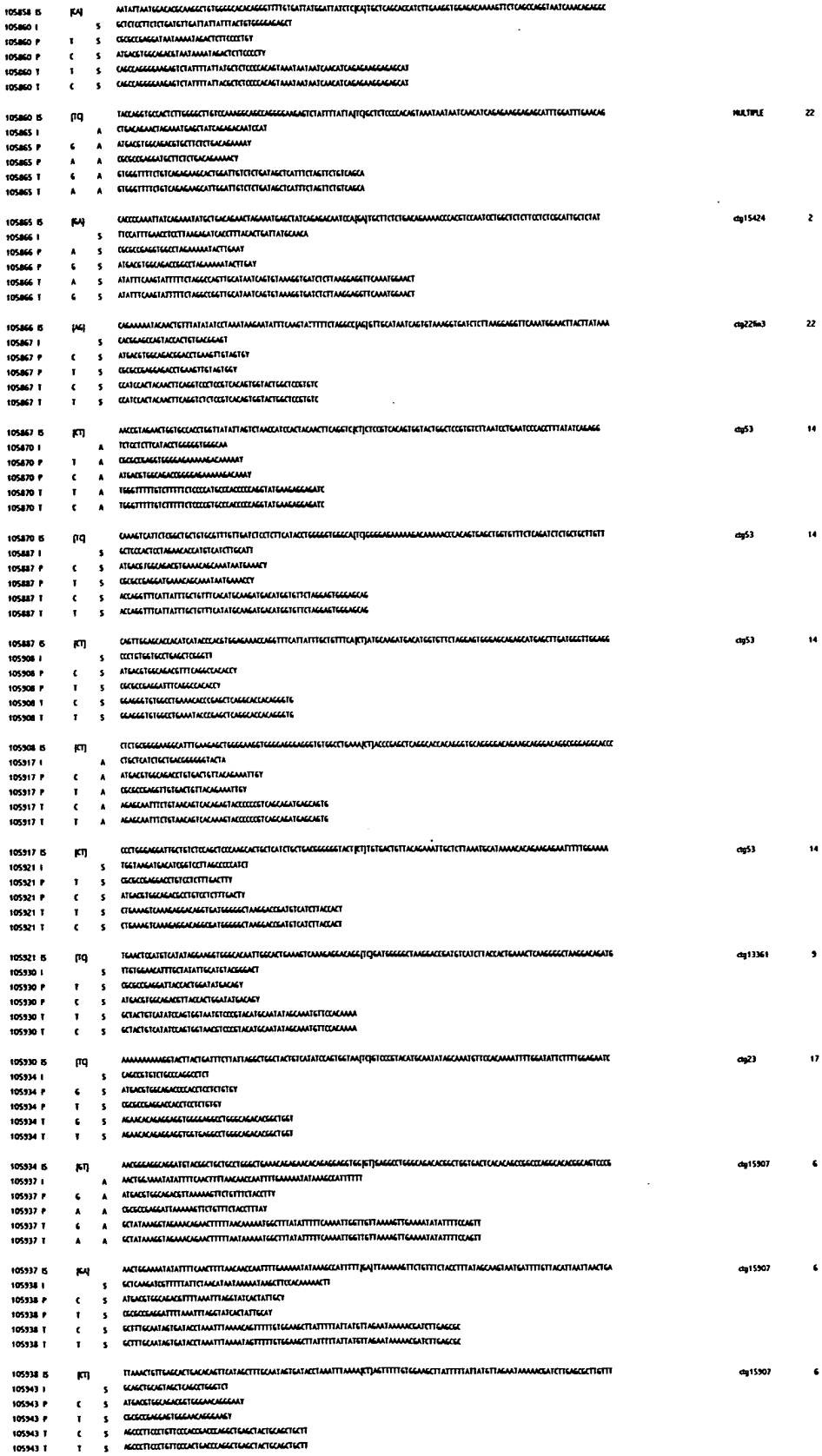
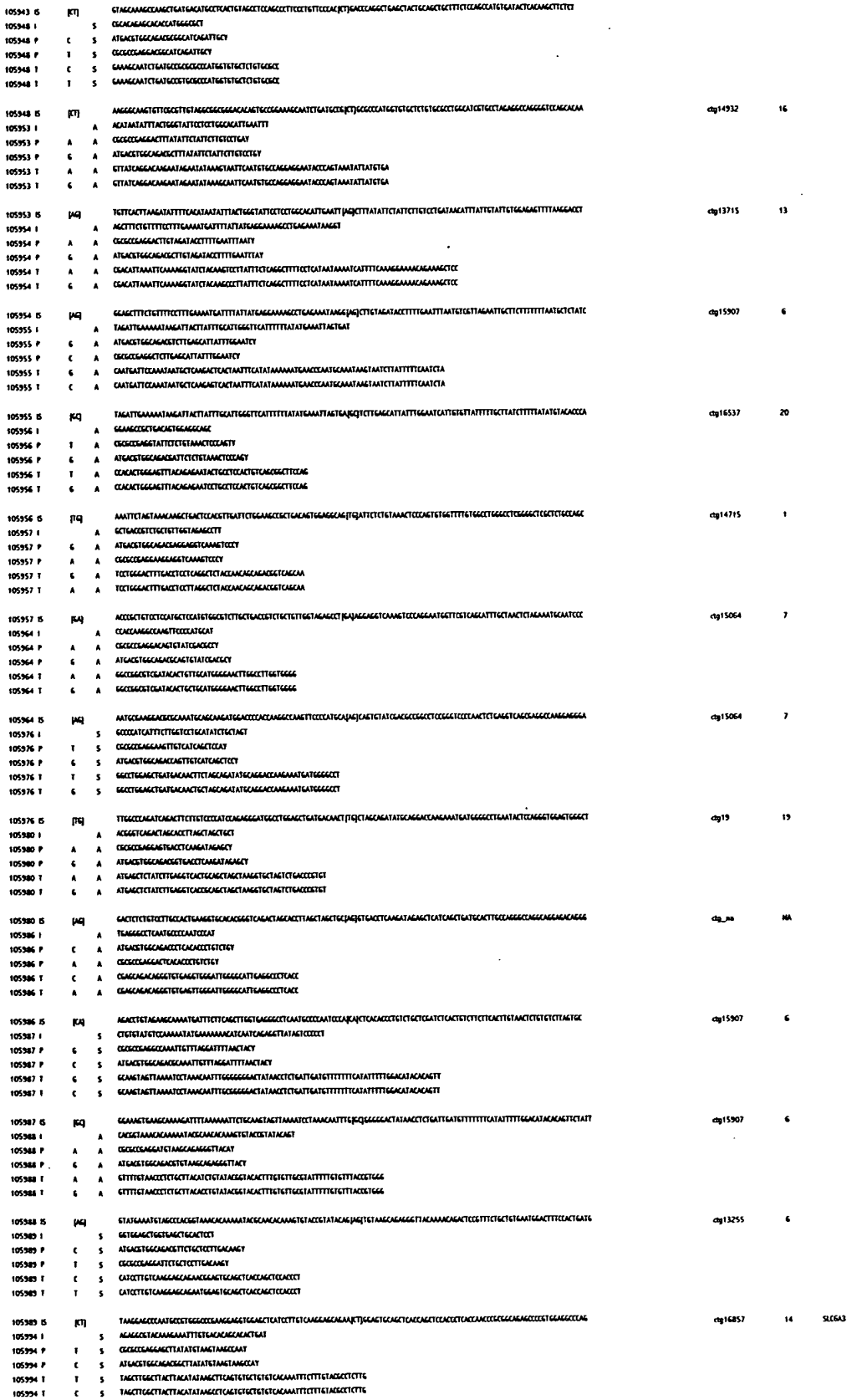


FIGURE 129G



Filed on behalf of Applicant

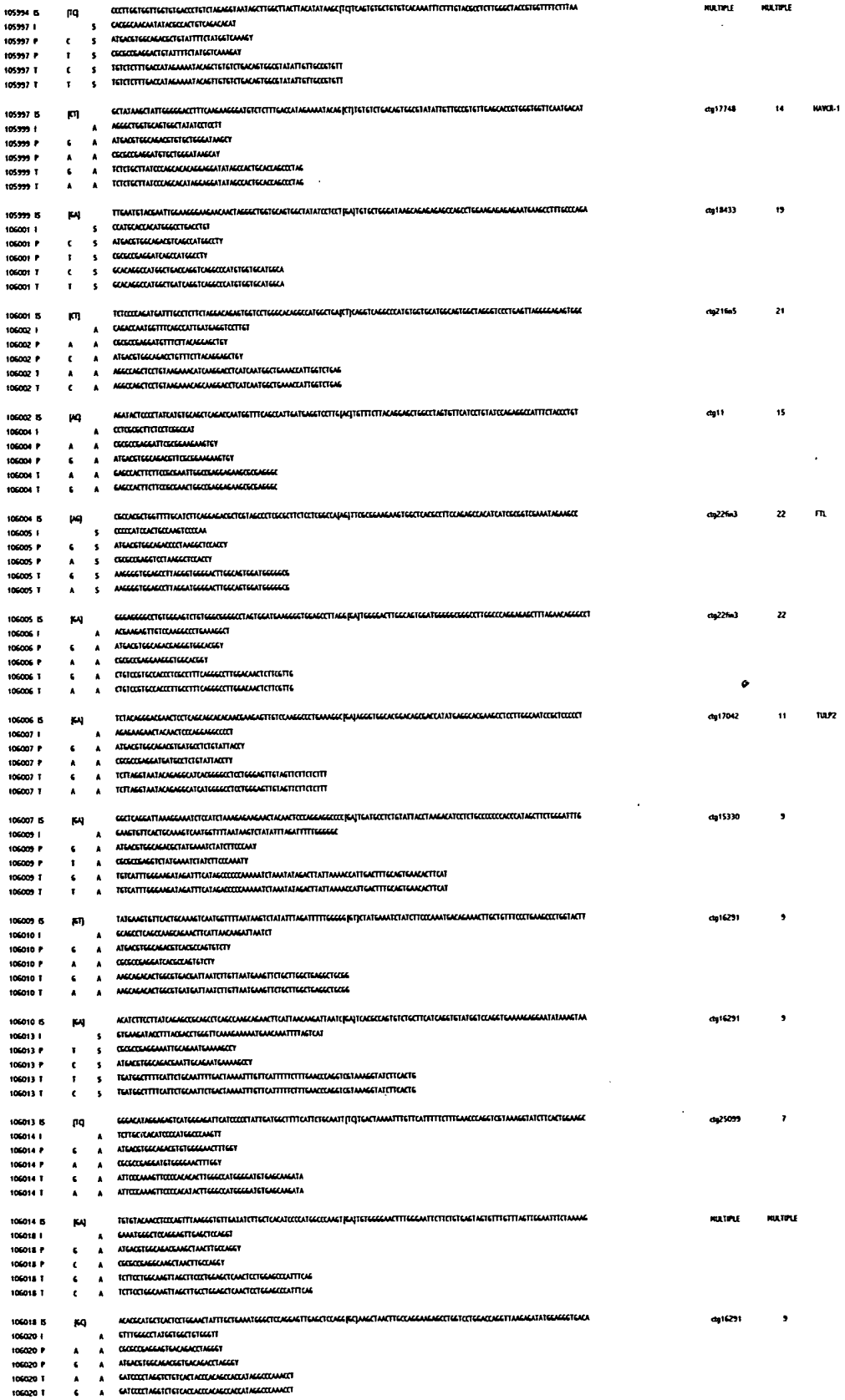


FIGURE 129G

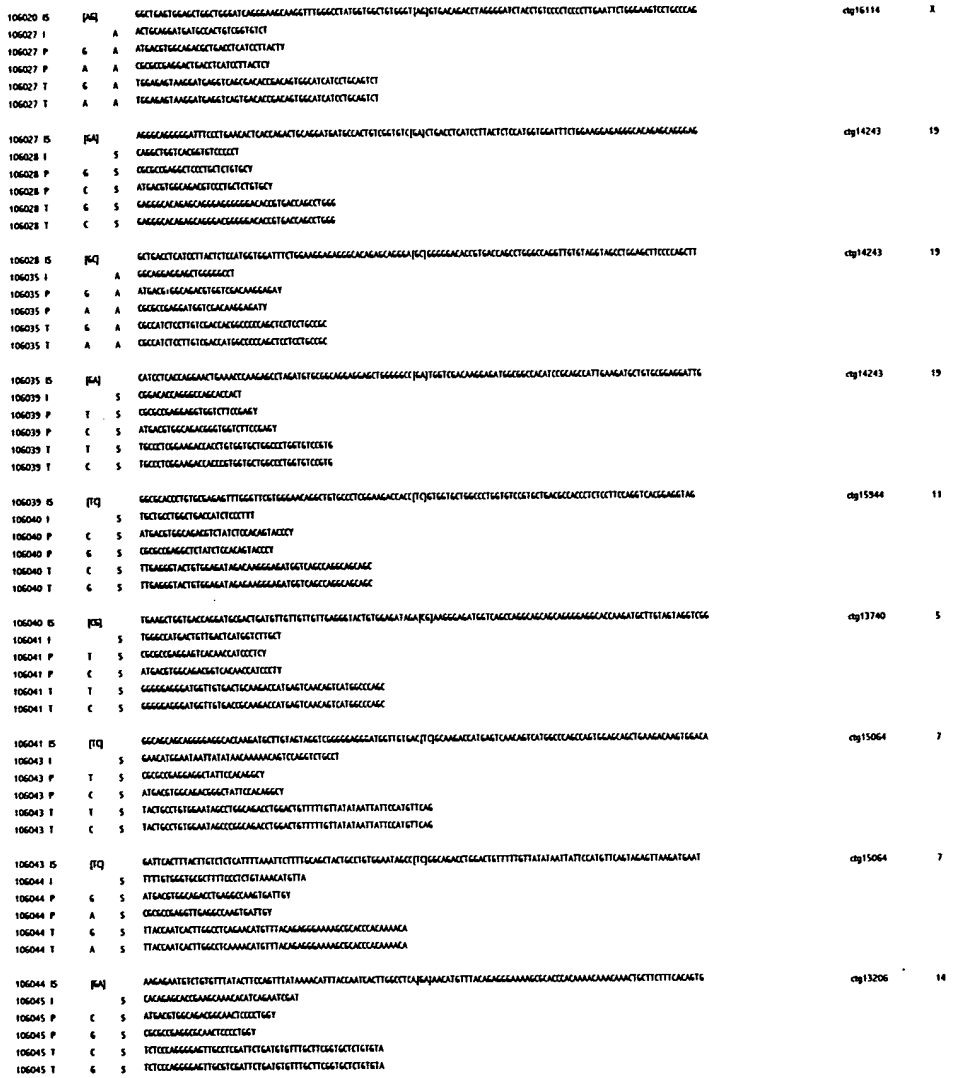
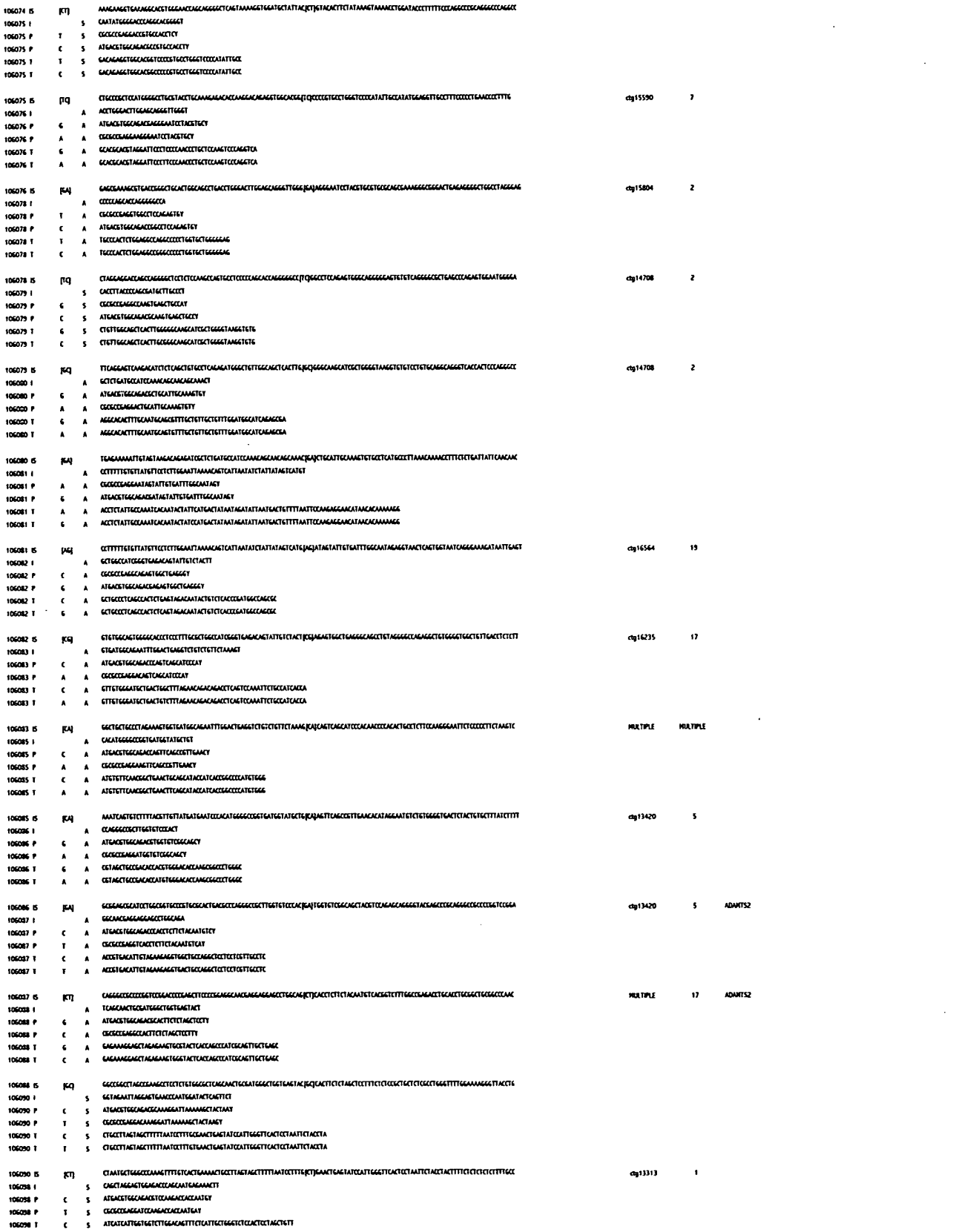
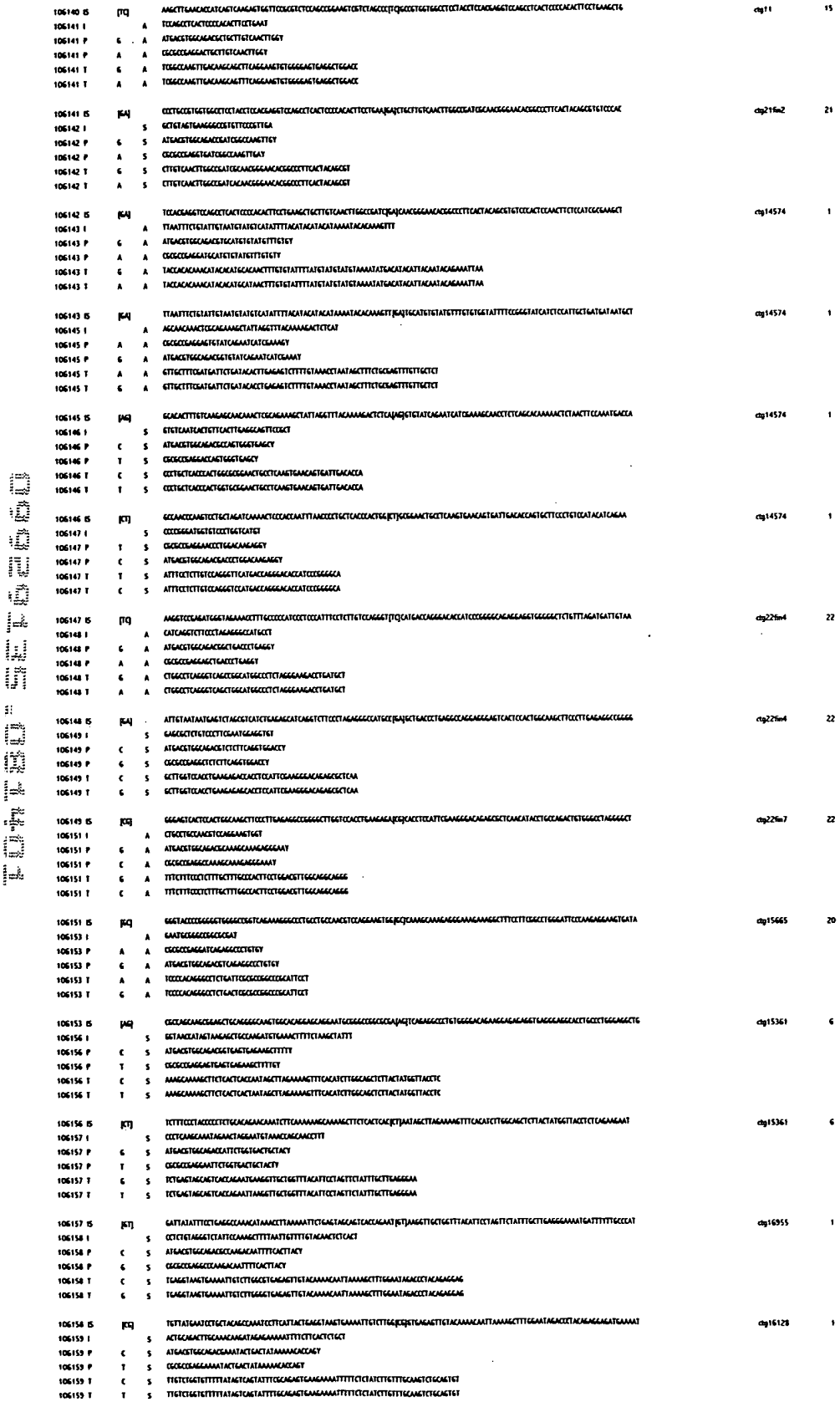


FIGURE 129G

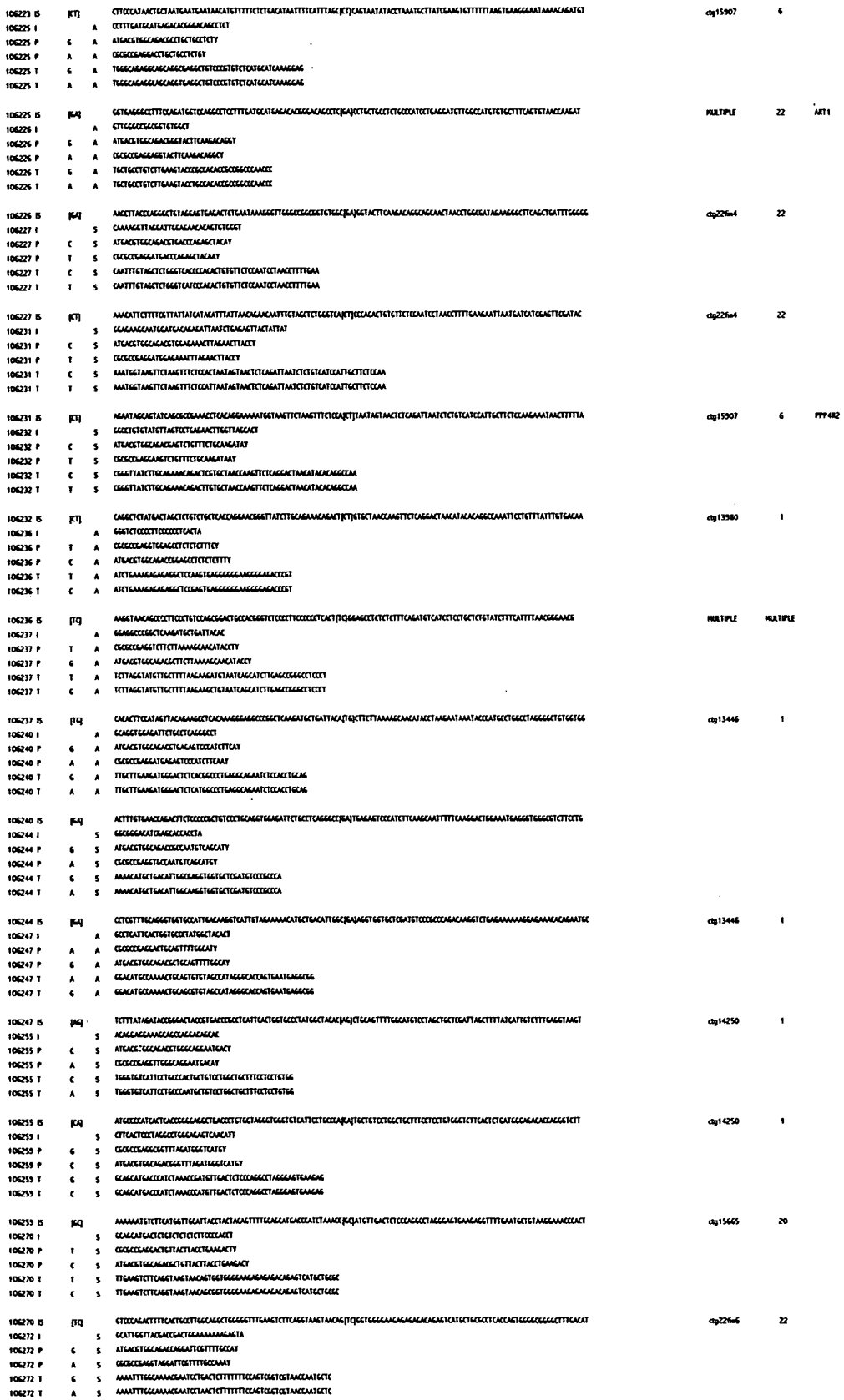


106098 IS	[CT]		GTCCAGGGTAGACACTCTGGCACAGTGGGACATTGTGACATCATCATTGGTGGTCTTGGA[CT]AGTTTCTCATTGCTGGGTCTCCACTCCTAGCTGTTACTGCAAGTCCATGCCTCTACCATG	ctg16318	19
106101 I		A	TTCATACTATTGTCTGCTTAAAGATCATTACTGTTTTAGTTTTGTAATTATTTTTAATACT		
106101 P	A	A	CGCGCCGAGGATTTAGCTCTACCTCGTTTTCY		
106101 P	C	A	ATGACGTGGCAGACCTTTAGCTCTACCTCGTTTTY		
106101 T	A	A	AGATGAAAACGAGGTAGAGCTAAATGTATTAAAAATAATTACAAAACTAAAACAGTAATGATCTTTAAGCAGACAATAGTATGAA		
106101 T	C	A	AGATGAAAACGAGGTAGAGCTAAAGGTATTAAAAATAATTACAAAACTAAAACAGTAATGATCTTTAAGCAGACAATAGTATGAA		
106101 IS	[AG]		TTCATACTATTGTCTGCTTAAAGATCATTACTGTTTTAGTTTTGTAATTATTTTTAATAC[AG]TTTAGCTCTACCTCGTTTTCATCTGGAAACTGTTAGATTTTCAAAACTTACTGATGATTA		
106110 I		A	TGGCTTGATTTATTGCTCCTGCCCATTTTTTCCCTCA		
106110 P	C	A	ATGACGTGGCAGACCTATTAATTTTTGTCACTAGGCAAY		
106110 P	T	A	CGCGCCGAGGTTATTAATTTTTGTCACTAGGCAATY		
106110 T	C	A	AGCAATTGCCTAGTGACAAAAATTAATAGGAGGGAAAAAATGGGCAGGAGCAATAAATCAAGCCAAA		
106110 T	T	A	AGCAATTGCCTAGTGACAAAAATTAATAAGAGGGAAAAAATGGGCAGGAGCAATAAATCAAGCCAAA		
106110 IS	[CT]		AACTTTGCAAAAAAACAGAATATTTGGCTTGATTTATTGCTCCTGCCCATTTTTTCCCTC[CT]TATTAATTTTTGTCACTAGGCAATTGCTGTCATGGCAACACACCACTCTAGTTTGATATC	ctg25448	18
106115 I		A	CCTGGGCCCAGGGTCAATGGGGTAT		
106115 P	G	A	ATGACGTGGCAGACGAAGATGTTGATAGTGTAATGTTTY		
106115 P	A	A	CGCGCCGAGGAAAGATGTTGATAGTGTAATGTTTGY		
106115 T	G	A	CCCCCAAACATTACACTATCAACATCTTCTACCCCATTGACCCTGGGCCCAGGCT		
106115 T	A	A	CCCCCAAACATTACACTATCAACATCTTTTACCCCATTGACCCTGGGCCCAGGCT		
106115 IS	[GA]		AATGGGAAGTATATTTTATTAAATAGTCTTTCAAAGCCTGGGCCCAGGGTCAATGGGGTA[GA]AAGATGTTGATAGTGTAATGTTTGGGGGCTATACTCAGTCTCCTTCTTTAGACAGGGAAA	ctg15053	16
106116 I		S	GGAGCCACCTGCACCCTGGCTTTCC		
106116 P	A	S	CGCGCCGAGGTTCCCTACTTACAGACAACTY		
106116 P	T	S	ATGACGTGGCAGACATCCCTACTTACAGACAACTY		
106116 T	A	S	GAGAAGTTGTCTGTAAGTAGGGAAGAAAGCCAGGGTGCAGGTGGCTCCTT		
106116 T	T	S	GAGAAGTTGTCTGTAAGTAGGGATGAAAGCCAGGGTGCAGGTGGCTCCTT		
106116 IS	[AT]		GGAAGGACAACAGTTCCAGGGGAAAGCTGCCATTGTGGAGAAGTTGTCTGTAAGTAGGGA[AT]GAAAGCCAGGGTGCAGGTGGCTCCTTTCCCACCCCTTCTGGCCTTGGTTCTCCCACCTCC	ctg832	11
106118 I		S	GCCACATGGGTGCCATGGCCCT		
106118 P	T	S	CGCGCCGAGGATGGGGCATCTTCCCY		
106118 P	C	S	ATGACGTGGCAGACGTGGGGCATCTTCCCY		
106118 T	T	S	TCTGGGGAAGATGCCCCATGGGCCATGGCACCCATGTGGCCC		
106118 T	C	S	TCTGGGGAAGATGCCCCACGGGCCATGGCACCCATGTGGCCC		
106118 IS	[TC]		AAGCCAAAGCTGGCTACAGCTCCAGCTGCCACGGCTGGGCCCTCTGGGGAAGATGCCCCA[TC]GGGCCATGGCACCCATGTGGCCCTGCCCACCTAAGATCAGCTCAAGGGCTTCAAACAAGC		
106120 I		S	GGTCATCCTTGCAGGGGAGGAATTCTTCTTCACTTAT		
106120 P	C	S	ATGACGTGGCAGACGGTCTTAGCTGCCCAY		
106120 P	T	S	CGCGCCGAGGAGTCTTAGCTGCCCAGY		
106120 T	C	S	AAGACTGGGCAGCTAAGACCTAAGTGAAGAAGAATTCCTCCCCTGCAAGGATGACCAA		
106120 T	T	S	AAGACTGGGCAGCTAAGACTTAAGTGAAGAAGAATTCCTCCCCTGCAAGGATGACCAA		
106120 IS	[CT]		AGCTGGCTCCCTGTACACTGCAGATACCTGAAGTGGTTTTCAAGACTGGGCAGCTAAGAC[CT]TAAGTGAAGAAGAATTCCTCCCCTGCAAGGATGACCAAGAACCCAGCCGCTCTGTTTCCT	ctg15972	16
106122 I		S	CAGTGTAAAGGAGTTAGGACCCCCTTTTGGGGATCT		
106122 P	G	S	CGCGCCGAGGCGGCATGGTTTTGTGGY		
106122 P	C	S	ATGACGTGGCAGACGGGCATGGTTTTGTGGY		
106122 T	G	S	AAAGCCACAAAACCATGCCGGATCCCCAAAAGGGGGTCCTAACTCCTTTACACTGTC		
106122 T	C	S	AAAGCCACAAAACCATGCCCGATCCCCAAAAGGGGGTCCTAACTCCTTTACACTGTC		
106122 IS	[GC]		AGTTCCAATACCAAGAAACTTCAGCAATTTTAAAGCATTTTAAAGCCACAAAACCATGCC[GC]GATCCCCAAAAGGGGGTCCTAACTCCTTTACACTGTCAGAATCTCAATTTTAAAAGGGAG	ctg21645	21
106123 I		A	CGGATCCCCAAAAGGGGGTCCTAACTCCTTTACT		
106123 P	A	A	CGCGCCGAGGACTGTCAGAATCTCAATTTTAAAAY		
106123 P	G	A	ATGACGTGGCAGACGCTGTCAGAATCTCAATTTTAAAY		
106123 T	A	A	TCCCTTTTAAAATTGAGATTCTGACAGTGTAAAGGAGTTAGGACCCCCTTTTGGGGATCCGGC		
106123 T	G	A	TCCCTTTTAAAATTGAGATTCTGACAGCGTAAAGGAGTTAGGACCCCCTTTTGGGGATCCGGC		
106123 IS	[AG]		AAGCATTTTAAAGCCACAAAACCATGCCGGATCCCCAAAAGGGGGTCCTAACTCCTTTAC[AG]CTGTCAGAATCTCAATTTTAAAAGGGAGGAGTAGAGAAGAGATAGAAACGCTCTCTGTTG	ctg21645	21
106124 I		S	CTGGCTGGCAATTGCTATTACTGGAACACAGGAAA		
106124 P	A	S	CGCGCCGAGGTAGAGGGATTAAAGAGTAACATACY		
106124 P	G	S	ATGACGTGGCAGACCAGAGGGATTAAAGAGTAACATAY		
106124 T	A	S	AGAGGTATGTTACTCTTTAATCCCTCTATTCCTGTGTTCCAGTAATAGCAATTGCCAGCCAGCA		
106124 T	G	S	AGAGGTATGTTACTCTTTAATCCCTCTGTTCCTGTGTTCCAGTAATAGCAATTGCCAGCCAGCA		
106124 IS	[AG]		CAGGGATCTACAGAAATTCCTGCAAGATTGTCAAGAGGTATGTTACTCTTTAATCCCTCT[AG]TTCCTGTGTTCCAGTAATAGCAATTGCCAGCCAGCATTTAGCACAAGAGCCTTTTGAATT	ctg21645	21
106125 I		S	CTGTAAATGTGACTTAATTACAGAAAGAGAGACTAAGGTGAGTTCTTATT		
106125 P	T	S	CGCGCCGAGGAATACGTAGAAAGATTCACAATCAT		
106125 P	C	S	ATGACGTGGCAGACGATACGTAGAAAGATTCACAATCY		
106125 T	T	S	TATGTGATTGTGAATCTTTCTACGTATTATAAGAACTCACCTTAGTCTCTCTTTCTGTAATTAAGTCACATTTACAGAT		
106125 T	C	S	TATGTGATTGTGAATCTTTCTACGTATCATAAGAACTCACCTTAGTCTCTCTTTCTGTAATTAAGTCACATTTACAGAT		
106125 IS	[TC]		TTCAAACACAGCACTCAATAAGTCATTATTTCTTATGTGATTGTGAATCTTTCTACGTAT[TC]ATAAGAACTCACCTTAGTCTCTCTTTCTGTAATTAAGTCACATTTACAGATAAATAGCAC	ctg21645	21
106126 I		A	AGCACTGGGAATTTCTTAATCAGAAATAATTGTATACAGTGTCCA		
106126 P	C	A	ATGACGTGGCAGACCCAAATGCATCTGATGCAY		
106126 P	T	A	CGCGCCGAGGTCAAATGCATCTGATGCAY		
106126 T	C	A	CTTATGCATCAGATGCATTTGGGGACACTGTATACAATTATTTCTGATTAAGAAATTCCCAGTGCTAT		
106126 T	T	A	CTTATGCATCAGATGCATTTGAGGACACTGTATACAATTATTTCTGATTAAGAAATTCCCAGTGCTAT		
106126 IS	[CT]		ACATTTACAGATAAATAGCACTGGGAATTTCTTAATCAGAAATAATTGTATACAGTGTCC[CT]CAAATGCATCTGATGCATAAGCAAGAATTTAAAAACTCACTTGGTTTGGAAGCTGGAGAA	ctg15907	6
106128 I		S	GATGAACTCATGCCCCGGGAAATGTGCCT		
106128 P	T	S	CGCGCCGAGGATCCTCACCTTGTCTGCY		
106128 P	C	S	ATGACGTGGCAGACGTCCTCACCTTGTCTGY		
106128 T	T	S	GAAGGCAGACAAGGTGAGGATGGCACATTTCCCGGGGCATGAGTTCATCTG		
106128 T	C	S	GAAGGCAGACAAGGTGAGGACGGCACATTTCCCGGGGCATGAGTTCATCTG		
106128 IS	[TC]		CAGCGAGCAGCAGGCGGCCTCCTTTGGCTATGGCAAAACTGAAGGCAGACAAGGTGAGGA[TC]GGCACATTTCCCGGGGCATGAGTTCATCTGCCCTCATGTCCGGTGGGTCAGCACTGCTGG	ctg45	8
106139 I		A	GGAGGAACTCTTGCTGGCCGGGGAAA		
106139 P	T	A	CGCGCCGAGGTCTCTTGGAATTGGTCTTTTTY		
106139 P	C	A	ATGACGTGGCAGACCCTCTTGGAATTGGTCTTTY		
106139 T	T	A	CCCAAAAAAGACCAATTCCAAGAGATTCCCCGGCCAGCAAGAGTTCCTCCCT		
106139 T	C	A	CCCAAAAAAGACCAATTCCAAGAGGTTCCCCGGCCAGCAAGAGTTCCTCCCT		
106139 IS	[TC]		GGGACAGAGGCCAAAGCTGTCTTTCCTTGTGTAAGGCAGGAACTCTTGCTGGCCGGGGAA[TC]CTCTTGGAATTGGTCTTTTTTGGGGTTTCAGAGGCAAAGCTTGAACACCATCAGTCAAGA		
106140 I		S	TGGAGGTAGGAGGCCACCACGGCT		
106140 P	T	S	CGCGCCGAGGAGGGCTAGACGACTTCY		
106140 P	C	S	ATGACGTGGCAGACGGGGCTAGACGACTTCY		
106140 T	T	S	GCCGGAAGTCGTCTAGCCCTGCCGTGGTGGCCTCCTACCTCCACG		
106140 T	C	S	GCCGGAAGTCGTCTAGCCCCGCCGTGGTGGCCTCCTACCTCCACG		



106159 IS	[CT]		CCCATTTGTGCTTTATATTGGAGGTGGCAGGATTGTCTGGTGTTTTTATAGTCAGTATTT[CT]GCAGAGTGAAGAAAATTTTTCTCTATCTTGTTTGCAAGTCTGCAGTGTTTTCCTCTCTAG	ctg16128	1
106161 I		S	CCTGGCTTTTCTGTTTTAGATTCTCTGGGGCCTTTT		
106161 P	T	S	CGCGCCGAGGATTACAGGATTAAACTTTGCTAATTY		
106161 P	C	S	ATGACGTGGCAGACGTTACAGGATTAAACTTTGCTAATY		
106161 T	T	S	TGAAAATTAGCAAAGTTTAATCCTGTAATAAAGGCCCCAGAGAATCTAAAACAGAAAAGCCAGGGA		
106161 T	C	S	TGAAAATTAGCAAAGTTTAATCCTGTAACAAAGGCCCCAGAGAATCTAAAACAGAAAAGCCAGGGA		
106161 IS	[TC]		TTTCATATACACCATGAAACTCACTCTAATGATGAAAATTAGCAAAGTTTAATCCTGTAA[TC]AAAGGCCCCAGAGAATCTAAAACAGAAAAGCCAGGGAATTTTGCAAAGCCTTGTTAAATG	ctg13446	1
106162 I		A	CCATCCCTCTGCCTCTTCAGACTCAGTCACCT		
106162 P	G	A	ATGACGTGGCAGACGACAGAAGGCAGTTAATTTGY		
106162 P	A	A	CGCGCCGAGGAACAGAAGGCAGTTAATTTGTY		
106162 T	G	A	GTTTACAAATTAACTGCCTTCTGTCGGTGACTGAGTCTGAAGAGGCAGAGGGATGGTG		
106162 T	A	A	GTTTACAAATTAACTGCCTTCTGTTGGTGACTGAGTCTGAAGAGGCAGAGGGATGGTG		
106162 IS	[GA]		CTATTCCTGGTAGCCAGGCCTTCTTTGCACCATCCCTCTGCCTCTTCAGACTCAGTCACC[GA]ACAGAAGGCAGTTAATTTGTAAACAAGGAAGATAAGCTGCTGTGTGTCCCCCAGAGAGGT	ctg22fm4	22
106165 I		A	CTGCCAAAAATGATTTGATGCTGAATGTAACATTCAGGGCAAAATAATT		
106165 P	A	A	CGCGCCGAGGAAGATCAAAAGGGGTGTATTATAY		
106165 P	G	A	ATGACGTGGCAGACGAGATCAAAAGGGGTGTATTATY		
106165 T	A	A	TAACTATAATACACCCCTTTTGATCTTATTATTTTGCCCTGAATGTTACATTCAGCATCAAATCATTTTTGGCAGTG		
106165 T	G	A	TAACTATAATACACCCCTTTTGATCTCATTATTTTGCCCTGAATGTTACATTCAGCATCAAATCATTTTTGGCAGTG		
106165 IS	[AG]		TTATTCTAAGCACTGCCAAAAATGATTTGATGCTGAATGTAACATTCAGGGCAAAATAAT[AG]AGATCAAAAGGGGTGTATTATAGTTATATTAAGCTAGTCTGATCCTTTGAAATCTGTGTA	ctg13446	1
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106166 P	G	A	ATGACGTGGCAGACGTTGATTGTTGAACTCTTACCY		
106166 P	A	A	CGCGCCGAGGATTGATTGTTGAACTCTTACCAY		
106166 T	G	A	ATGTTGGTAAGAGTTCAACAATCAACACCATCATGGGCAACAAGAAAGTATCTGTGTCTGCCA		
106166 T	A	A	ATGTTGGTAAGAGTTCAACAATCAATACCATCATGGGCAACAAGAAAGTATCTGTGTCTGCCA		
106166 IS	[GA]		AAAGTGCTTTGTGTGACCAGGTGTGGCAGACACAGATACTTTCTTGTTGCCCATGATGGT[GA]TTGATTGTTGAACTCTTACCAACATTAGGGTAGCCCACCTAGAAGAGACTCAGAAGTTAC	ctg13980	1
106169 I		A	AGCATTGGTCATTCAGCCCACAGACCCCT		
106169 P	G	A	ATGACGTGGCAGACGAAGTGCCAAGTCCTGY		
106169 P	A	A	CGCGCCGAGGAAAGTGCCAAGTCCTGTY		
106169 T	G	A	AGGAACAGGACTTGGCACTTCGGGGTCTGTGGGCTGAATGACCAATGCTCC		
106169 T	A	A	AGGAACAGGACTTGGCACTTTGGGGTCTGTGGGCTGAATGACCAATGCTCC		
106169 IS	[GA]		GACCCACCCTCCTCCTGTCTTCTGCAGACTGGAGCATTGGTCATTCAGCCCACAGACCCC[GA]AAGTGCCAAGTCCTGTTCCTGACTCCTAGTGCCTCCGGATGCTTCCACCTCTGCCTCCCC	ctg13980	1
106183 I		A	GAACGCTAGAGCCATTATCAATGTAAAAGAATAGATAGTATTTCCATCC		
106183 P	T	A	CGCGCCGAGGTCACATTTTAAAACATTCATGTCAY		
106183 P	A	A	ATGACGTGGCAGACACACATTTTAAAACATTCATGTCAY		
106183 T	T	A	TATATGACATGAATGTTTTAAAATGTGAGATGGAAATACTATCTATTCTTTTACATTGATAATGGCTCTAGCGTTCTT		
106183 T	A	A	TATATGACATGAATGTTTTAAAATGTGTGATGGAAATACTATCTATTCTTTTACATTGATAATGGCTCTAGCGTTCTT		
106183 IS	[TA]		ACAAAGGAGAAAGAACGCTAGAGCCATTATCAATGTAAAAGAATAGATAGTATTTCCATC[TA]CACATTTTAAAACATTCATGTCATATAAAATAAGGGAACAATTCTGCAAACTGAAGACCA	ctg13980	1
106184 I		S	CCCATCCTATCACATCCTTCAGCAGCGCCA		
106184 P	G	S	ATGACGTGGCAGACCTGACGCTGAGATTCGY		
106184 P	A	S	CGCGCCGAGGTTGACGCTGAGATTCGTY		
106184 T	G	S	AGAGACGAATCTCAGCGTCAGGGCGCTGCTGAAGGATGTGATAGGATGGGGC		
106184 T	A	S	AGAGACGAATCTCAGCGTCAAGGCGCTGCTGAAGGATGTGATAGGATGGGGC		
106184 IS	[GA]		TGACCGTGGTGTGGAAACCCCCAGCACTGATGCTAGAATCAGAGACGAATCTCAGCGTCA[GA]GGCGCTGCTGAAGGATGTGATAGGATGGGGCATGTCGGTGCCACAGTAACGGCCTAAATA	ctg13980	1
106190 I		A	CACTCCCCACCACCTCCAAAGATATACATACTACACTGTAAATTACATT		
106190 P	G	A	ATGACGTGGCAGACGTAAAGATACCCCACTCCAY		
106190 P	A	A	CGCGCCGAGGATAAAGATACCCCACTCCAY		
106190 T	G	A	ATCCTGGAGTGGGGTATCTTTACATGTAATTTACAGTGTAGTATGTATATCTTTGGAGGTGGTGGGGAGTGCC		
106190 T	A	A	ATCCTGGAGTGGGGTATCTTTATATGTAATTTACAGTGTAGTATGTATATCTTTGGAGGTGGTGGGGAGTGCC		
106190 IS	[GA]		TGCATAGGCTGGCACTCCCCACCACCTCCAAAGATATACATACTACACTGTAAATTACAT[GA]TAAAGATACCCCACTCCAGGATCAGGTTACTAAGCTATGGCTAAATAGAACCATTTCATT	ctg13980	1
106191 I		A	GGCTGCTTCCCTCTCCTGGGAGAATTTTAAGAAGATT		
106191 P	C	A	CGCGCCGAGGCGTCCACAGCAGATTCY		
106191 P	G	A	ATGACGTGGCAGACGGTCCACAGCAGATTCY		
106191 T	C	A	ATGTGAATCTGCTGTGGACGATCTTCTTAAAATTCTCCCAGGAGAGGGAAGCAGCCAC		
106191 T	G	A	ATGTGAATCTGCTGTGGACCATCTTCTTAAAATTCTCCCAGGAGAGGGAAGCAGCCAC		
106191 IS	[CG]		CAAGAGAAGGGAGCTGAGCTTAGTGGCTGCTTCCCTCTCCTGGGAGAATTTTAAGAAGAT[CG]GTCCACAGCAGATTCACATCTATTATGCTTTTTGTTCCTTGCAATTGCCCTGTGAAGTAA	ctg13980	1
106208 I		S	CTCCCTGAAGCAAGACGTGCACGCCT		
106208 P	C	S	ATGACGTGGCAGACGTCTCGATAGCCCTGGY		
106208 P	T	S	CGCGCCGAGGATCTCGATAGCCCTGGY		
106208 T	C	S	CACTCCAGGGCTATCGAGACGGCGTGCACGTCTTGCTTCAGGGAGTC		
106208 T	T	S	CACTCCAGGGCTATCGAGATGGCGTGCACGTCTTGCTTCAGGGAGTC		
106208 IS	[CT]		CCAGGCCCTGCGGGATCAGAAGGCAGGCGCTTACGCTGCTGCACTCCAGGGCTATCGAGA[CT]GGCGTGCACGTCTTGCTTCAGGGAGTCCCCAGTGAGTAGGGACTGAGGGTGGAGGGTCAG	ctg13516	6
106211 I		A	CCCCATATGGGAGCCAGGGGACAGTGA		
106211 P	T	A	CGCGCCGAGGTCAAAGATGCGGCACY		
106211 P	C	A	ATGACGTGGCAGACCCAAAGATGCGGCACY		
106211 T	T	A	CCCGGTGCCGCATCTTTGACACTGTCCCCTGGCTCCCATATGGGGTG		
106211 T	C	A	CCCGGTGCCGCATCTTTGGCACTGTCCCCTGGCTCCCATATGGGGTG		
106211 IS	[TC]		TCTGAGCCATGTCCTCCCGGCAGGAAAGTACATCACCCCATATGGGAGCCAGGGGACAGTG[TC]CAAAGATGCGGCACCGGGAGGAGGAGGAGATCGTCAGGCTGGCCCAGGACCGGGAGGAGA	ctg16537	20
106220 I		S	CAAGCTACCTGGAGACGGTGAGTGTTCTGTCTCT		
106220 P	C	S	ATGACGTGGCAGACGCTTGGGTTTTAACTGCY		
106220 P	T	S	CGCGCCGAGGACTTGGGTTTTAACTGCGY		
106220 T	C	S	ACACCGCAGTTAAAACCCAAGCGAGACAGAACACTCACCGTCTCCAGGTAGCTTGTG		
106220 T	T	S	ACACCGCAGTTAAAACCCAAGTGAGACAGAACACTCACCGTCTCCAGGTAGCTTGTG		
106220 IS	[CT]		GGTTCAGTTTTCTATTTCTTCCACATTCCACCTGTGCCAACACCGCAGTTAAAACCCAAG[CT]GAGACAGAACACTCACCGTCTCCAGGTAGCTTGTGAACCAGTCTGGGGGCTTGTCTTGAG	ctg15665	20
106222 I		A	CAGCGTTTCCTGGTATACTTTTAAAGAACACAAGTTGGT		
106222 P	A	A	CGCGCCGAGGAAAAGCTGGCACACAATY		
106222 P	G	A	ATGACGTGGCAGACGAAAGCTGGCACACAAY		
106222 T	A	A	GTCCATTGTGTGCCAGCTTTTCCAACTTGTGTTCTTTAAAAGTATACCAGGAAACGCTGGG		
106222 T	G	A	GTCCATTGTGTGCCAGCTTTCCCAACTTGTGTTCTTTAAAAGTATACCAGGAAACGCTGGG		
106222 IS	[AG]		TAAAAGAGTCTATTTTTTATCCCAGCGTTTCCTGGTATACTTTTAAAGAACACAAGTTGG[AG]AAAGCTGGCACACAATGGACACATTCATGAAAAAAAATACATCTCTATGTTCTTCTCCCA	ctg15907	6
106223 I		A	CATAACTGCTAATGAATGAATAACATGTTTTTCTCTGACATAATTTTCATTTAGCA		
106223 P	C	A	ATGACGTGGCAGACCCAGTAATATACCTAAATGCTTATCY		
106223 P	T	A	CGCGCCGAGGTCAGTAATATACCTAAATGCTTATCGY		
106223 T	C	A	ACTTCGATAAGCATTTAGGTATATTACTGGGCTAAATGAAAATTATGTCAGAGAAAAACATGTTATTCATTCATTAGCAGTTATGGG		
106223 T	T	A	ACTTCGATAAGCATTTAGGTATATTACTGAGCTAAATGAAAATTATGTCAGAGAAAAACATGTTATTCATTCATTAGCAGTTATGGG		

FIGURE 129G


106223 IS [CT] CTTCCCATAACTGCCAATGAATGAATAACATGTTTTTCTCTGACATAATTTTCATTTAGC[CT]CAGTAATATACCTAAATGCTTATCGAAGTGTTTTTTAAGTGAAGGGAATAAAACAGATGT ctg15907 6
106225 I A CCTTTGATGCATGAGACACGGGACAGCCTCT
106225 P G A ATGACGTGCCAGACGCCTGCTGCCTCTY
106225 P A A CGCGCCGAGGACCTGCTGCCTCTGY
106225 T G A TGGGCAGAGGCAGCAGGCGAAGCTGTCCCGTGTCTCATGCATCAAAGGAG
106225 T A A TGGGCAGAGGCAGCAGTGAAGCTGTCCCGTGTCTCATGCATCAAAGGAG
106225 IS [GA] GGTGAGGGCCTTTCCAGATGGTCCAGGCCTCCTTTGATGCATGAGACACGGGACAGCCTC[GA]CCTGCTGCCTCTGCCCATCCTGAGGATGTTGGCCATGTGTGCTTTCAGTGTAACCAAGAT MULTIPLE 22 ART1
106226 I A GTTGGCCCGCGGTGTGCCT
106226 P G A ATGACGTGCCAGACGGGTACTTCAAGACAGGY
106226 P A A CGCGCCGAGGAGGTACTTCAAGACAGGCY
106226 T G A TGCTGCCTGTCTTGAAGTACCCGCCACACCGCCGCCCAACCC
106226 T A A TGCTGCCTGTCTTGAAGTACCTGCCACACCGCCGCCCAACCC
106226 IS [GA] AACCTTACCCAGGGCTGTAGGAGTGAGACTCTCAATAAAGGGTTGGGCCGGCGGTGTGGC[GA]GGTACTTCAAGACAGGCAGCAACTAACCTGGCGATAGAAGGCTTCAGCTGATTTGGGGG ctg22fin4 22
106227 I S CAAAAGGTTAGGATTGGAAGAACACAGTGTGGGT
106227 P C S ATGACGTGCCAGACGCTGACCCAGAGCTACAY
106227 P T S CGCGCCGAGGATGACCCAGAGCTACAAT
106227 T C S CAATTTGTAGCTCTGGGTCACCCCACACTGTGTCTCCAATCCTAACCTTTTGAA
106227 T T S CAATTTGTAGCTCTGGGTCATCCCCACACTGTGTCTCCAATCCTAACCTTTTGAA
106227 IS [CT] AAACATTCTTTTCGTTATTATCATACATTTATTAACAGAACAATTTGTAGCTCTGGGTCA[CT]CCCACACTGTGTCTCCAATCCTAACCTTTTGAAGAATTAATGATCATCGAGTTCGATAC ctg22fin4 22
106231 I S GGAGAAGCAATGGATGACAGAGATTAATCTGAGAGTTACTATTAT
106231 P C S ATGACGTGGCAGACGTGGAGAAACTTAGAACTTACCY
106231 P T S CGCGCCGAGGATGGAGAAACTTAGAACTTACCY
106231 T C S AAATGGTAAGTTCTAAGTTTCTCCACTAATAGTAACTCTCAGATTAATCTCTGTCATCCATTGCTTCTCCAA
106231 T T S AAATGGTAAGTTCTAAGTTTCTCCATTAATAGTAACTCTCAGATTAATCTCTGTCATCCATTGCTTCTCCAA
106231 IS [CT] AGAATAGCAGTATCAGCGCCGAAACCTCACAGGAAAAATGGTAAGTTCTAAGTTTCTCCA[CT]TAATAGTAACTCTCAGATTAATCTCTGTCATCCATTGCTTCTCCAAGAAATAACTTTTTA ctg15907 6 FFF4R2
106232 I S GGCCTGTGTATGTTAGTCCTGAGAACTTGGTTAGCACT
106232 P C S ATGACGTGGCAGACAGAGTCTGTTTCTGCAAGATAT
106232 P T S CGCGCCGAGGAAGTCTGTTTCTGCAAGATAAY
106232 T C S CGGGTTATCTTGCAGAAACAGACTCGTGCTAACCAAGTTCTCAGGACTAACATACACAGGCCAA
106232 T T S CGGGTTATCTTGCAGAAACAGACTTGTGCTAACCAAGTTCTCAGGACTAACATACACAGGCCAA
106232 IS [CT] CAGGCTCTATGACTAGCTCTGTCTGCTCACCAGGAACGGGTTATCTTGCAGAAACAGACT[CT]GTGCTAACCAAGTTCTCAGGACTAACATACACAGGCCAAATTCCTGTTTATTTGTGACAA ctg13580 1
106236 I A GGGTCTCCCCTTCCCCCCTCACTA
106236 P T A CGCGCCGAGGTGGAGCCTCTCTCTTTCY
106236 P C A ATGACGTGGCAGACCGGAAGCTCTCTCTTTY
106236 T T A ATCTGAAAGAGAGAGGCTCCAAGTGAGGGGGGAAGGGGAAGACCCGT
106236 T C A ATCTGAAAGAGAGAGGCTCCAAGTGAGGGGGGAAGGGGAAGACCCGT
106236 IS [TC] AAGGTAACAGCCCTTCCCTGTCCAGCGGACTGCCACGGGTCTCCCTTCCCCCCTCACT[TC]GGAAGCCTCTCTCTTTCAGATGTCATCCTCCTGCTCTGTATCTTTCATTTTAACGGGAACG MULTIPLE MULTIPLE
106237 I A GCAGGCCCGGCTCAAGATGCTGATTACAC
106237 P T A CGCGCCGAGGTCTTCTTAAAAGCAACATACCTY
106237 P G A ATGAGGTGGCAGACGCTTCTTAAAAGCAACATACCY
106237 T T A TCTTAGGTATGTTGCTTTTAAGAAGATGTAATCAGCATCTTGAGCCGGGCCTCCCT
106237 T G A TCTTAGGTATGTTGCTTTTAAGAAGCTGTAATCAGCATCTTGAGCCGGGCCTCCCT
106237 IS [TC] CACACTTCCATAGTTACAGAAGCCTCACAAAGGGAAGCCCGGCTCAAGATGCTGATTACA[TG]CTTCTTAAAAGCAACATACCTAAGAATAAATACCCATGCCTGGCCTAGGGGCTGTGGTGG ctg13446 1
106240 I A GCAGGTGGAAGATTCTGCCTCAGGGCCT
106240 P G A ATGACGTGGCAGACCTGAGAGTCCCATCTTCAY
106240 P A A CGCGCCGAGGATGAAGTCCCATCTTCAAT
106240 T G A TTGCTTGAAGATGGGACTCTCACGGCCCTGAGGCAGAATCTCCACCTGCAG
106240 T A A TTGCTTGAAGATGGGACTCTCATGGCCCTGAGGCAGAATCTCCACCTGCAG
106240 IS [GA] ACTTTGTGAACCAGACTCTCCCCCCGCTGTCCCTGCAGGTGCAGATTCTGCCTCAGGGCC[GA]TGAGAGTCCCATCTTCAAGCAATTTTTCAAGGACTGGAAATGAGGGTGGGCGTCTTCCTG
106244 I S GGCGGGACATCGAGCACCACCTA
106244 P G S ATGACGTGGCAGACCGCCAATGTCAGCATY
106244 P A S CGCGCCGAGGTGCCAATGTCAGCATGT
106244 T G S AAACATGCTGACATTGGCGAGGTGGTGCTCGATGTCCCGCCA
106244 T A S AAACATGCTGACATTGGCAAGGTGGTGCTCGATGTCCCGCCA
106244 IS [GA] CCTCGTTTGCAGGGTGGTGCATTGACAAGGTCATTGTAGAAAACATGCTGACATTGGC[GA]AGGTGGTGCTCGATGTCCCGCCAGACAAGGTCTGAGAAAAAAGGAGAAACACAGAATGC ctg13446 1
106247 I A GCCTCATTCACTGGTGCCCTATGGCTACACT
106247 P A A CGCGCCGAGGACTGCAGTTTTGGCATY
106247 P G A ATGACGTGGCAGACGCTGCAGTTTTGGCAY
106247 T A A GCACATGCCAAAACTGCAGCGTGTAGCCATAGGGCACCAGTGAATGAGGCGG
106247 T G A GCACATGCCAAAACTGCAGCGTGTAGCCATAGGGCACCAGTGAATGAGGCGG
106247 IS [AG] TCTTTATAGATACCGGACTACCGTGACCCGCCTCATTCACTGGTGCCCTATGGCTACAC[AG]CTGCAGTTTTGGCATGTCCTAGCTGCTCGATTAGCTTTTATCATTGTCTTTGAGGTAAGT ctg14250 1
106255 I S ACAGCAGCAAAGCAGCCAGCAGCAGCAC
106255 P C S ATGACCTGGCAGACCTGGGCAGGAATGACT
106255 P A S CGCGCCGAGGTTGGGCAGGAATGACAT
106255 T C S TGGGTGTCATTCCTGCCCACTGCTGTCCTGGCTGCTTTCCTCCTGTGG
106255 T A S TGGGTGTCATTCCTGCCCAATGCTGTCCTGGCTGCTTTCCTCCTGTGG
106255 IS [CA] ATGCCCCATCACTCACCGGGGAGGCTGACCCTGTGGTAGGGTGGGTGTCATTCCTGCCCA[CA]TGCTGTCCTGGCTGCTTTCCTCCTGTGGGTCTTCACTCTGATGGGGAGACACCAGGGTCTT ctg14250 1
106259 I S CTTCACTCCCTAGGCCTGGGAGAGTCAACATT
106259 P G S CGCGCCGAGGCGGTTTAGATGGGTCATGY
106259 P C S ATGACGTGGCAGACGGGTTTAGATGGGTCATGY
106259 T G S GCAGCATGACCCATCTAAACCCATGTTGACTCTCCCAGGCCTAGGGAGTGAAGAG
106259 T C S GCAGCATGACCCATCTAAACCCATGTTGACTCTCCCAGGCCTAGGGAGTGAAGAG
106259 IS [GC] AAAAAATGTCTTCATGGTTGCATTACCTACTACAGTTTTGCAGCATGACCCATCTAAACC[GC]ATGTTGACTCTCCCAGGCCTAGGGAGTGAAGAGGTTTTGAATGCTGTAAGGAAACCCACT ctg15665 20
106270 I S GCAGCATGACTCTGTCTCTCTCTCCCCACCT
106270 P T S CGCGCCGAGGACTGTTACTTACCTGAAGACTY
106270 P C S ATGACGTGGCAGACGTGTTACTTACCTGAAGACY
106270 T T S TTGAAGTCTTCAGGTAAGTAACAGTGGTGGGGAAGAGAGAGACAGAGTCATGCTGCGC
106270 T C S TTGAAGTCTTCAGGTAAGTAACAGCGGTGGGGAAGAGAGAGACAGAGTCATGCTGCGC
106270 IS [TC] GTCCCAGACTTTTCACTGCCTTGGCAGGCTGGGGGTTTGAAGTCTTCAGGTAAGTAACAG[TC]GGTGGGGAACAGAGAGACAGAGTCATGCTGCGCCTCACCAGTGGGGCGGGGCTTTCACAT ctg22fin6 22
106272 I S GCATTGGTTACGACCGACTGGAAAAAAAGAGTA
106272 P G S ATGACGTGGCAGACCAGGATTCGTTTTGCCAY
106272 P A S CGCGCCGAGGTAGGATTCGTTTTGCCAAAT
106272 T G S AAAATTTGGCAAAACGAATCCTGACTCTTTTTTTCCAGTCGGTCGTAACCAATGCTC
106272 T A S AAAATTTGGCAAAACGAATCCTAACTCTTTTTTTCCAGTCGGTCGTAACCAATGCTC

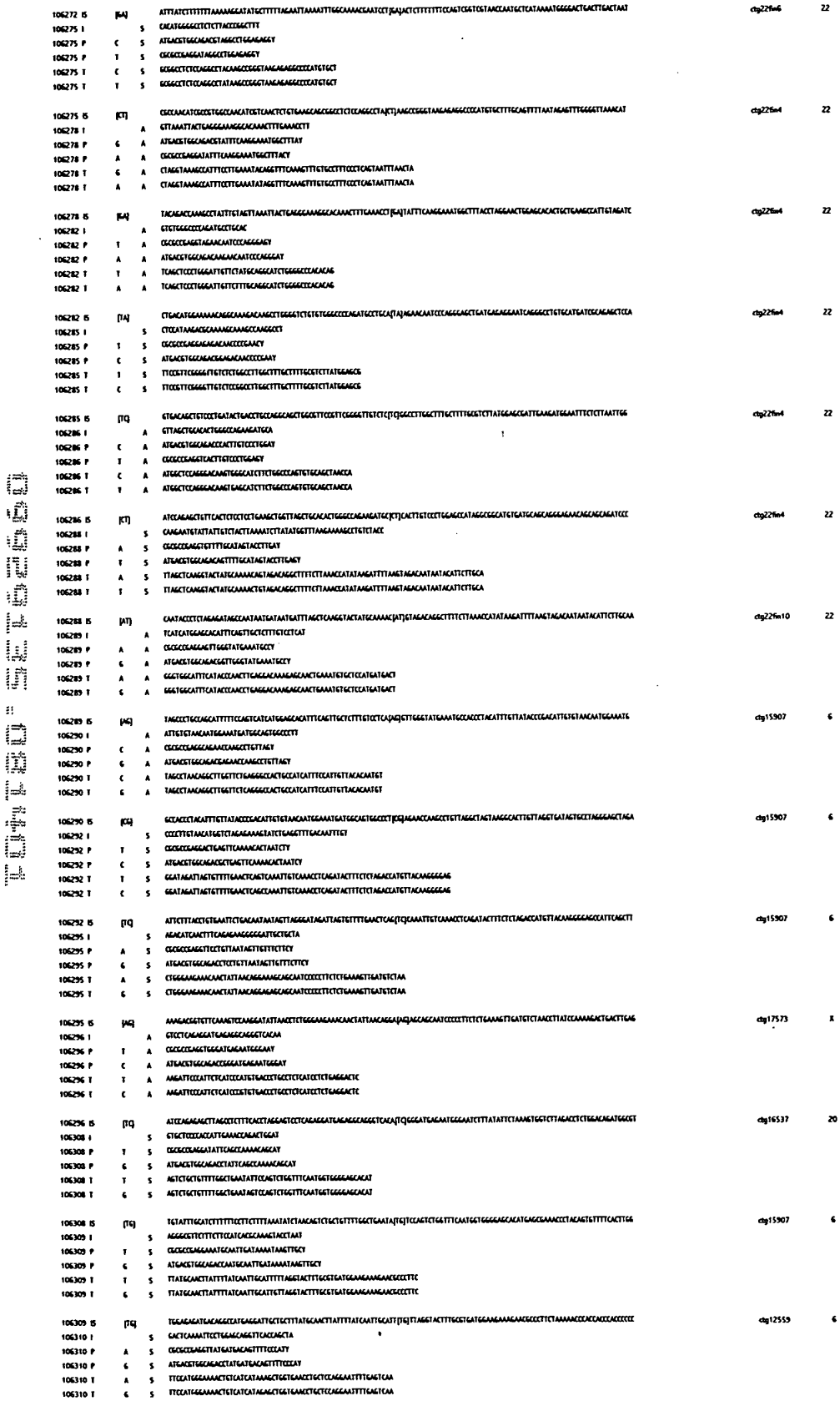


FIGURE 129G

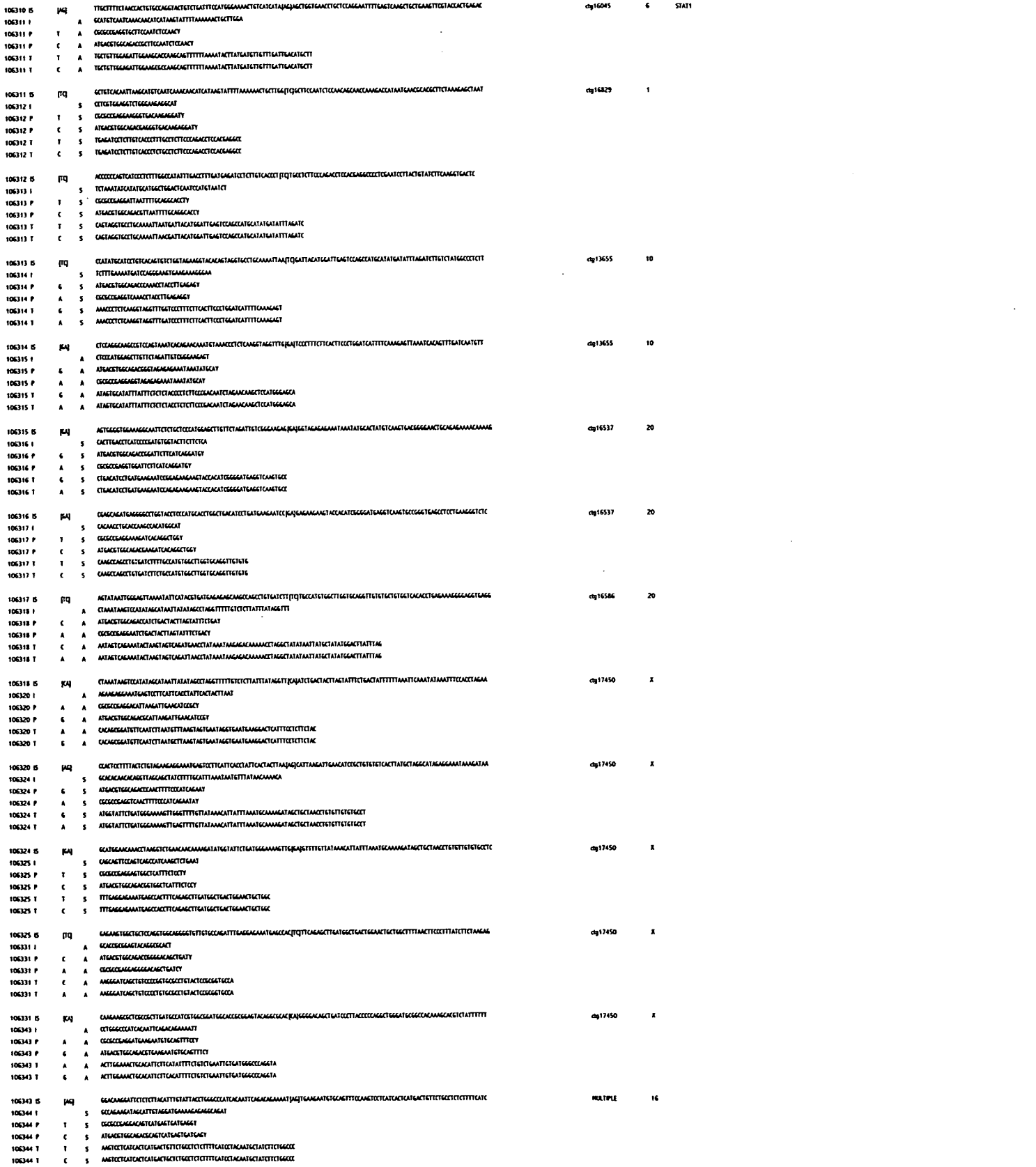
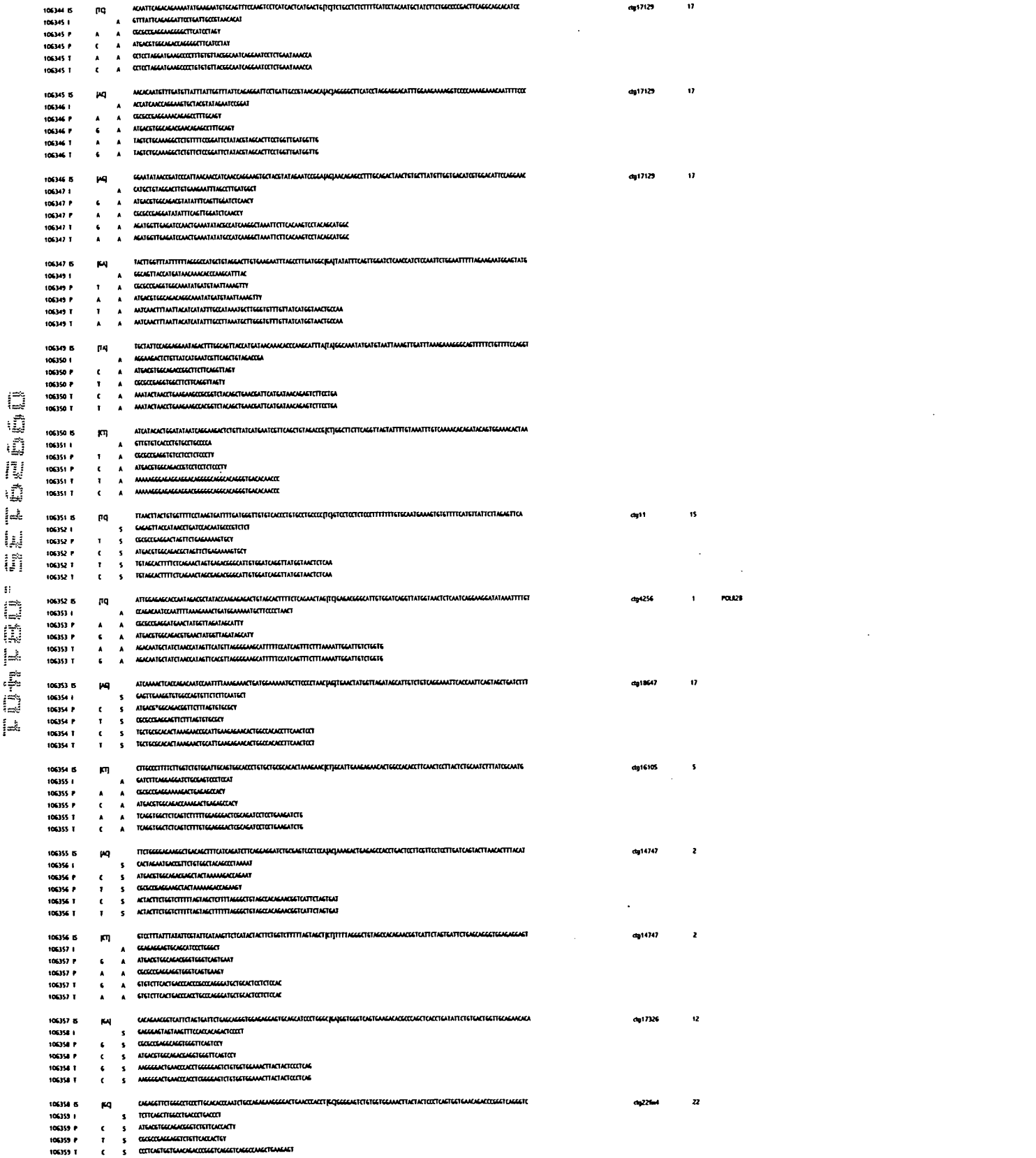
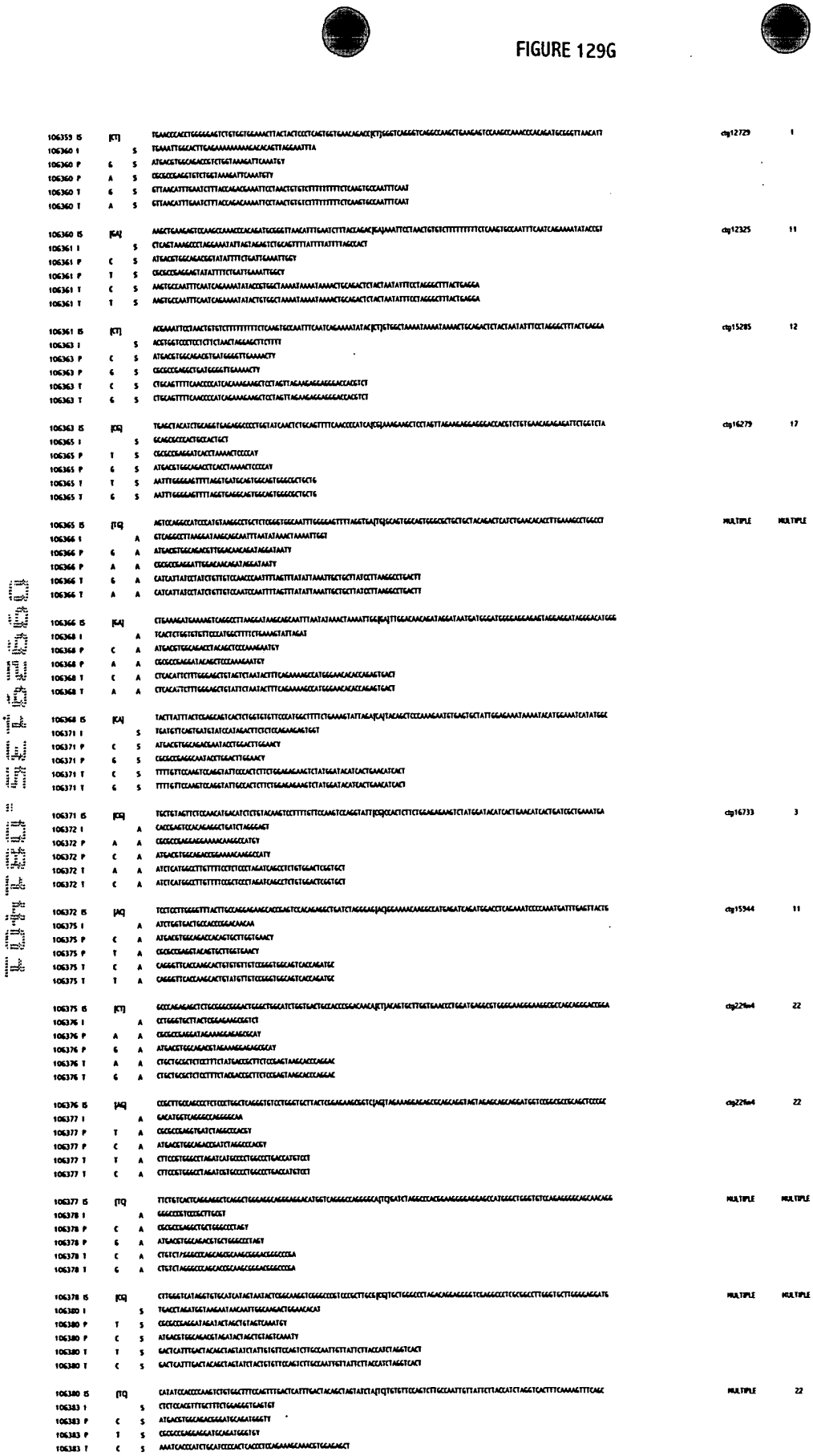
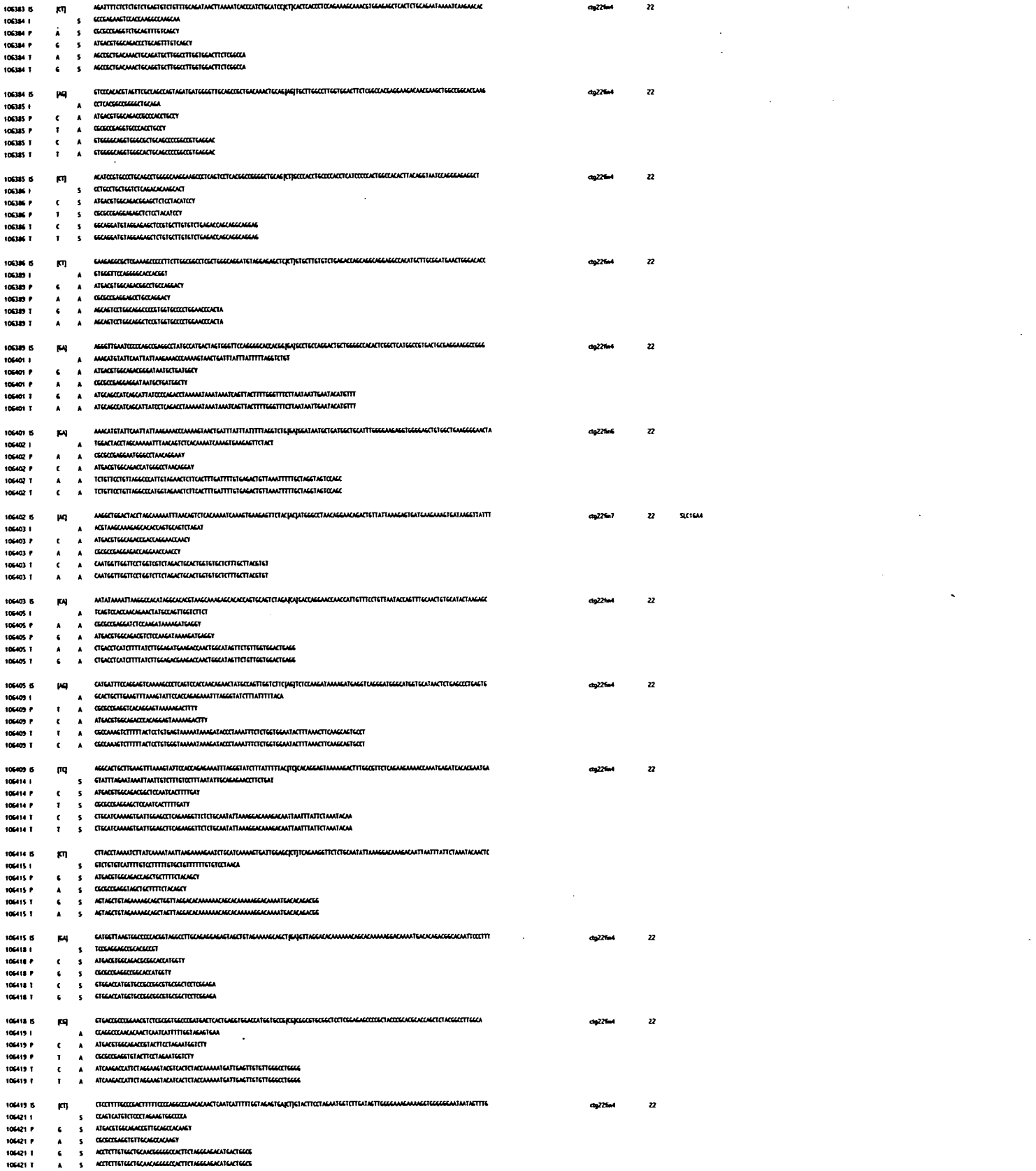


FIGURE 129G





Express Mail Label No. EL 840 144 245 US



Application No. 10/828,000 Filed April 20, 2004

FIGURE 129G

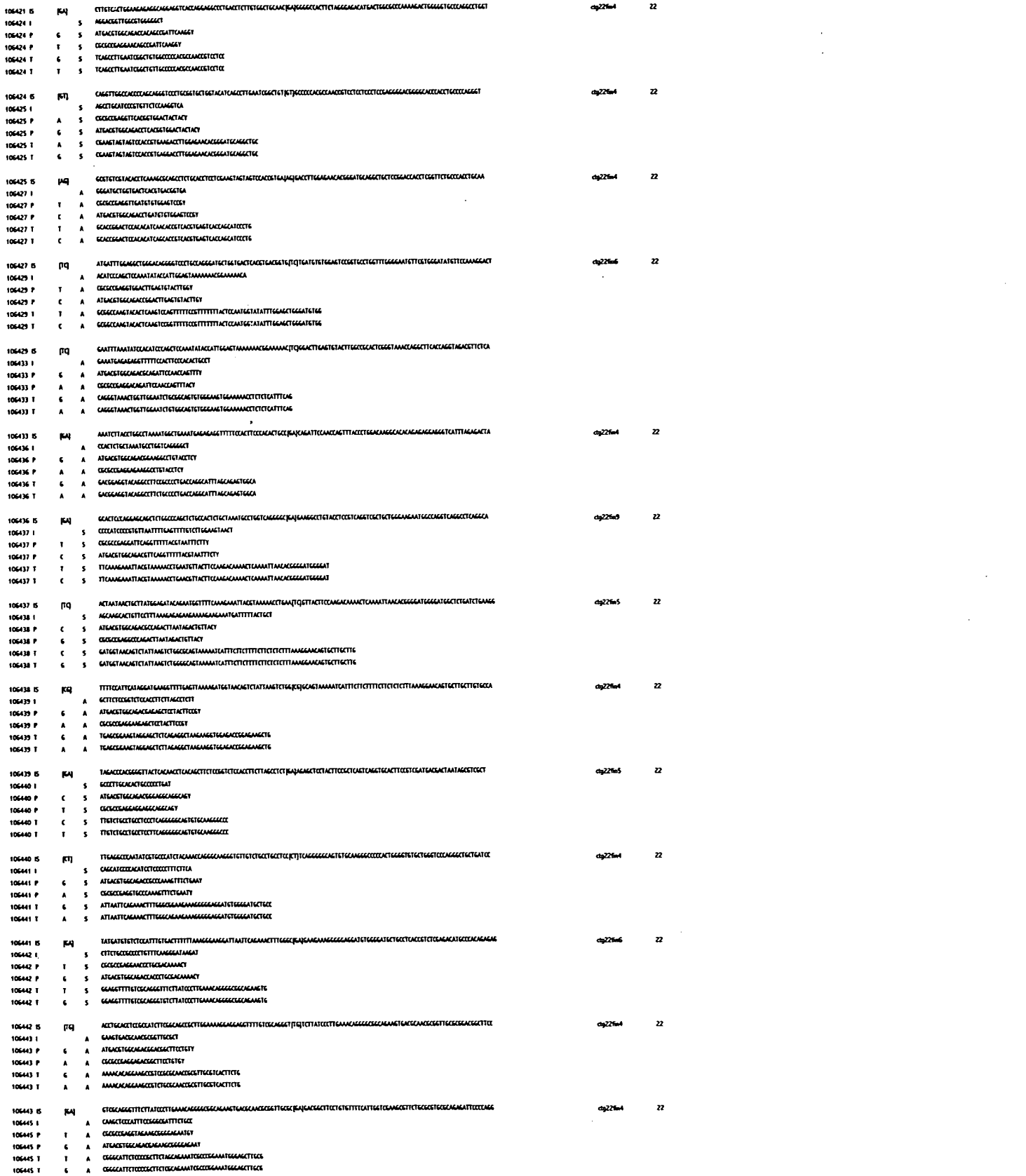


FIGURE 129G

106445 IS	[TG]		AGCTTCCCCAGCGGGCCGATCAGCGCTTCGCGCAAGCTCCCATTTCCGGGCGATTTCTGC[TG]AGAAGCGGGGAGAATGCCCGCGAGTCACCCTGAGGCGCTTAGTCTGGGGCACGAGGTTGG	ctg22fm4	22	
106446 I		A	CCAGTAGCAGGTGGAGGGCCAGGAA			
106446 P	T	A	CGCGCCGAGGTTGGTGGGTGAGCTTY			
106446 P	C	A	ATGACGTGGCAGACCTGGTGGGTGAGCTTY			
106446 T	T	A	CCTAAAGCTCACCCACCAATCCTGGCCCTCCACCTGCTACTGGGG			
106446 T	C	A	CCTAAAGCTCACCCACCAGTCCTGGCCCTCCACCTGCTACTGGGG			
106446 IS	[TC]		AGCCCAGCCTCTGTGTCTCTGTAGCCCAGGCCTCTACCCCAGTAGCAGGTGGAGGGCCAGGA[TC]TGGTGGGTGAGCTTTAGGGAGCAGCTGCTCGTTTGGAGTCCTGGACGTTGGAGGGATTAC	ctg22fm4	22	FLJ23375
106448 I		S	CCCCTTCAGAGCAGATGACTGTGCTGCAT			
106448 P	T	S	CGCGCCGAGGAGATTACCAGAAAATGCTACATY			
106448 P	C	S	ATGACGTGGCAGACGGATTACCAGAAAATGCTACAY			
106448 T	T	S	TTAAATGTAGCATTTTCTGGTAATCTTGCAGCACAGTCATCTGCTCTGAAGGGGCC			
106448 T	C	S	TTAAATGTAGCATTTTCTGGTAATCCTGCAGCACAGTCATCTGCTCTGAAGGGGCC			
106448 IS	[TC]		ATGTAAGAAACTATGTCTTTCAAGGGAAGGAGCTCTTAAATGTAGCATTTTCTGGTAATC[TC]TGCAGCACAGTCATCTGCTCTGAAGGGGCCTGGATTCCTTCTGAAATGGGACCTGAGTG	ctg22fm4	22	
106449 I		S	CAGAAGTGGGTAAATGGTTTTGATTCCCAGGGTTTTATTAGAAGCT			
106449 P	T	S	CGCGCCGAGGATTTATACCACCCGGGTAY			
106449 P	C	S	ATGACGTGGCAGACGTTTATACCACCCGGGTY			
106449 T	T	S	CTTTTACCCGGGTGGTATAAATGCTTCTAATAAAACCCTGGGAATCAAAACCATTTACCCACTTCTGCT			
106449 T	C	S	CTTTTACCCGGGTGGTATAAACGCTTCTAATAAAACCCTGGGAATCAAAACCATTTACCCACTTCTGCT			
106449 IS	[TC]		CCTGAAGAGACCCTGGAGAAGGGAAGAAACAAAGCTGACCTTTTACCCGGGTGGTATAAA[TC]GCTTCTAATAAAACCCTGGGAATCAAAACCATTTACCCACTTCTGCTCAAATGCCAAAGT	ctg22fm4	22	
106450 I		S	TGGGGCCCAACACCCGCAAGGT			
106450 P	C	S	ATGACGTGGCAGACGTCCCACCGCACGT			
106450 P	G	S	CGCGCCGAGGCTCCCACCGCACGY			
106450 T	C	S	GCACCGTGCGGTGGGACCCTTGCGGGTGTTGGGCCCCACG			
106450 T	G	S	GCACCGTGCGGTGGGAGCCTTGCGGGTGTTGGGCCCCACG			
106450 IS	[CG]		GGTGACGCGGCGGGAAGCCGGGCCGGGAGGCAGGTGCAGATCGGGCACCGTGCGGTGGGA[CG]CCTTGCGGGTGTTGGGCCCCACGCTCCAGGCTGGGGACCTCCAGTCCAGATTGTAACTCG	ctg22fm7	22	
106452 I		S	GGCTTCTCCCAACCCCTGCCGGA			
106452 P	A	S	CGCGCCGAGGTGGGTGACAAGCCGY			
106452 P	G	S	ATGACGTGGCAGACCGGGTGACAAGCCGT			
106452 T	A	S	TTCCCGGCTTGTCACCCACCGGCAGGGGTTGGGAGAAGCCAA			
106452 T	G	S	TTCCCGGCTTGTCACCCGCCGGCAGGGGTTGGGAGAAGCCAA			
106452 IS	[AG]		CCAGGCCCAGCGCCTTGGGCGTACGCAATAGACCCCTCCAAGCTTCCCGGCTTGTCACCC[AG]CCGGCAGGGGTTGGGAGAAGCCAATAAACGGCGAACGGGGCGGGGCCAAGGCATGGCTGG	ctg22fm7	22	
106456 I		A	AGTTAGGTGTGATCTGAGGGGCAAAGGGGAAA			
106456 P	T	A	CGCGCTGAGGTGAGACAGGGGAGACAT			
106456 P	C	A	ATGACGTGGCAGACCGAGACAGGGGAGACT			
106456 T	T	A	TGTCTGTCTCCCCTGTCTCATTCCCCTTTGCCCCTCAGATCACACCTAACTGG			
106456 T	C	A	TGTCTGTCTCCCCTGTCTCGTTCCCCTTTGCCCCTCAGATCACACCTAACTGG			
106456 IS	[TC]		AGCTGGTGGGGGGCAGAAGTGAAGATGCCAGTTAGGTGTGATCTGAGGGGCAAAGGGGAA[TC]GAGACAGGGGAGACAGACACACAGAGAGAGACAGACAGACACAGACAGATCATGAGATTG	ctg22fm4	22	
106458 I		S	CAGTTTCATGTAAGTTAATTTGCATCAGTCTTAGTAGCTTTTATAAAATGTAAAATGAT			
106458 P	C	S	ATGACGTGGCAGACGAGAGAATCTAGCTCTTTTAGGY			
106458 P	T	S	CGCGCCGAGGAAGAGAATCTAGCTCTTTTAGGY			
106458 T	C	S	CTTGCCTAAAAGAGCTAGATTCTCTCTCATTTTACATTTTATAAAAGCTACTAAGACTGATGCAAATTAACTTACATGAAACTGAT			
106458 T	T	S	CTTGCCTAAAAGAGCTAGATTCTCTTTCATTTTACATTTTATAAAAGCTACTAAGACTGATGCAAATTAACTTACATGAAACTGAT			
106458 IS	[CT]		TTTTCAGCATCAGTATATAGTGGTGAATTAAAGTTCTTGCCTAAAAGAGCTAGATTCTCT[CT]TCATTTTACATTTTATAAAAGCTACTAAGACTGATGCAAATTAACTTACATGAAACTGAT	ctg22fm4	22	
106459 I		A	GCACGGTGCTAGGCATCCTGAGGGGA			
106459 P	C	A	ATGACGTGGCAGACCCTTCTCGCCACAGCT			
106459 P	T	A	CGCGCCGAGGTCTTCTCGCCACAGCT			
106459 T	C	A	AGAGGCTGTGGCGAGAAGGCCCCTCAGGATGCCTAGCACCGTGCTC			
106459 T	T	A	AGAGGCTGTGGCGAGAAGACCCCTCAGGATGCCTAGCACCGTGCTC			
106459 IS	[CT]		ACCGCCCACAAAACCAGGCCTCTCTTGGCAGAGGAGCACGGTGCTAGGCATCCTGAGGGG[CT]CTTCTCGCCACAGCCTCTTAGCCGCAGCCTCCTTCCCTTGAGAGGTCCCTTCCAGAAACA	ctg22fm6	22	
106460 I		A	CAGTGTGGGGAAAACAGTCCCGCCTCTT			
106460 P	C	A	CGCGCCGAGGCGTTTAACTGTTTGGTATTTCAY			
106460 P	G	A	ATGACGTGGCAGACGGTTTAACTGTTTGGTATTTCATY			
106460 T	C	A	TTTGATGAAATACCAAACAGTTAAACGAGAGGCGGGACTGTTTTCCCCACACTGTG			
106460 T	G	A	TTTGATGAAATACCAAACAGTTAAACCAGAGGCGGGACTGTTTTCCCCACACTGTG			
106460 IS	[CG]		CCTGGGGAGGCGCAGCCAGCGGCAGGGGAGGCACAGTGTGGGGAAAACAGTCCCGCCTCT[CG]GTTTAACTGTTTGGTATTTCATCAAATTCCCAAACTTGTGCCATGTCCTTCTCTAGCTG	ctg22fm7	22	
106461 I		S	GGACTGAGACATTTTCAGTTTAACATTACTGAAATGGGACAAC			
106461 P	C	S	ATGACGTGGCAGACGTAGGCAGAAGCCATTTAAY			
106461 P	A	S	CGCGCCGAGGTTAGGCAGAAGCCATTTAAAY			
106461 T	C	S	ATTCTTTAAATGGCTTCTGCCTACTTGTCCCATTTCAGTAATGTTAAACTGAAAATGTCTCAGTCCTT			
106461 T	A	S	ATTCTTTAAATGGCTTCTGCCTAATTGTCCCATTTCAGTAATGTTAAACTGAAAATGTCTCAGTCCTT			
106461 IS	[CA]		AACATGTTCCAAGAGCCTTTTAGTGATTAAAATAGAAATTCTTTAAATGGCTTCTGCCTA[CA]TTGTCCCATTTCAGTAATGTTAAACTGAAAATGTCTCAGTCCTTCCTATATGCTGGCATT	ctg22fm4	22	
106465 I		S	TTTGAGTCGTGCCACCCTGGAGCAGAAGT			
106465 P	C	S	ATGACGTGGCAGACGTGGAGGGTAGGGATAAGY			
106465 P	T	S	CGCGCCGAGGATGGAGGGTAGGGATAAGY			
106465 T	C	S	CTACCTTATCCCTACCCTCCACCTTCTGCTCCAGGGTGGCACGACTCAAACC			
106465 T	T	S	CTACCTTATCCCTACCCTCCATCTTCTGCTCCAGGGTGGCACGACTCAAACC			
106465 IS	[CT]		GGAATGGCAACAGGTTCAGAACTTCTAGGAAGATGTCCCCTACCTTATCCCTACCCTCCA[CT]CTTCTGCTCCAGGGTGGCACGACTCAAACCTGCCCTACGGCCCATTAGCTCCATTCCATG	ctg22fm4	22	
106466 I		S	GCCATGTGTCCCCATGGCAGGGCC			
106466 P	A	S	CGCGCCGAGGTCAGGTTCCAGGCCY			
106466 P	T	S	ATGACGTGGCAGACACAGGTTCCAGGCCY			
106466 T	A	S	CAGAGGCCTGGAACCTGAGCCCTGCCATGGGGACACATGGCTC			
106466 T	T	S	CAGAGGCCTGGAACCTGTGCCCTGCCATGGGGACACATGGCTC			
106466 IS	[AT]		CCCAGCGTCAGTATGGTAAAGCCACAGGAGGAAGCAGGGTCAGCAGAGGCCTGGAACCTG[AT]GCCCTGCCATGGGGACACATGGCTCTATCCTTCACCCTTACTCACCCAGCCCACTCACCA			
106467 I		A	GAAGGGAACAATCAATTTTGTAGCCATTCTTTGTACTGATAAGTGCAT			
106467 P	G	A	ATGACGTGGCAGACGAAGGCCTGAAATAACCAAY			
106467 P	A	A	CGCGCCGAGGAAAGGCCTGAAATAACCAAY			
106467 T	G	A	CCAGTTGGTTATTTCAGGCCTTCTGCACTTATCAGTACAAAGAATGGCTACAAAATTGATTGTTCCCTTCCG			
106467 T	A	A	CCAGTTGGTTATTTCAGGCCTTTTGCACTTATCAGTACAAAGAATGGCTACAAAATTGATTGTTCCCTTCCG			
106467 IS	[CA]		ATAAAGGCCCACGGAAGGGAACAATCAATTTTGTAGCCATTCTTTGTACTGATAAGTGCA[CA]AAGGCCTGAAATAACCAACTGGTAAGTCAGTGTATTTCCATTGGCATGGGGAAAGAGAG	ctg22fm4	22	
106472 I		S	CCTCGTTATGGGCTTGGGGACTCCCTT			
106472 P	C	S	ATGACGTGGCAGACGTCACCCCGCGCY			
106472 P	T	S	CGCGCCGAGGATCACCCCGCGCY			
106472 T	C	S	CTCAGCGCGGGGTGACAGGGAGTCCCCAAGCCCATAACGAGGGC			
106472 T	T	S	CTCAGCGCGGGGTGATAGGGAGTCCCCAAGCCCATAACGAGGGC			

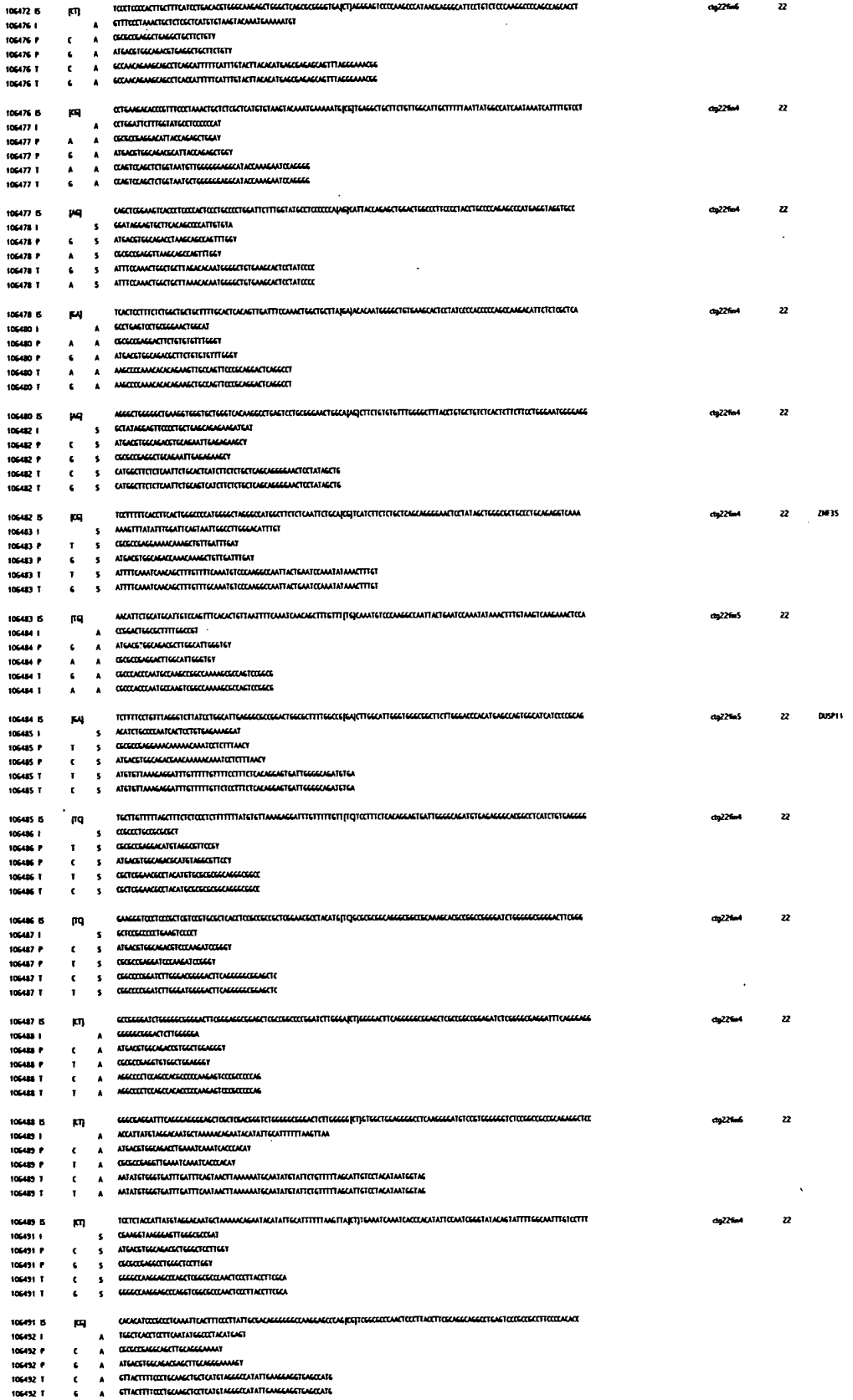


FIGURE 129G

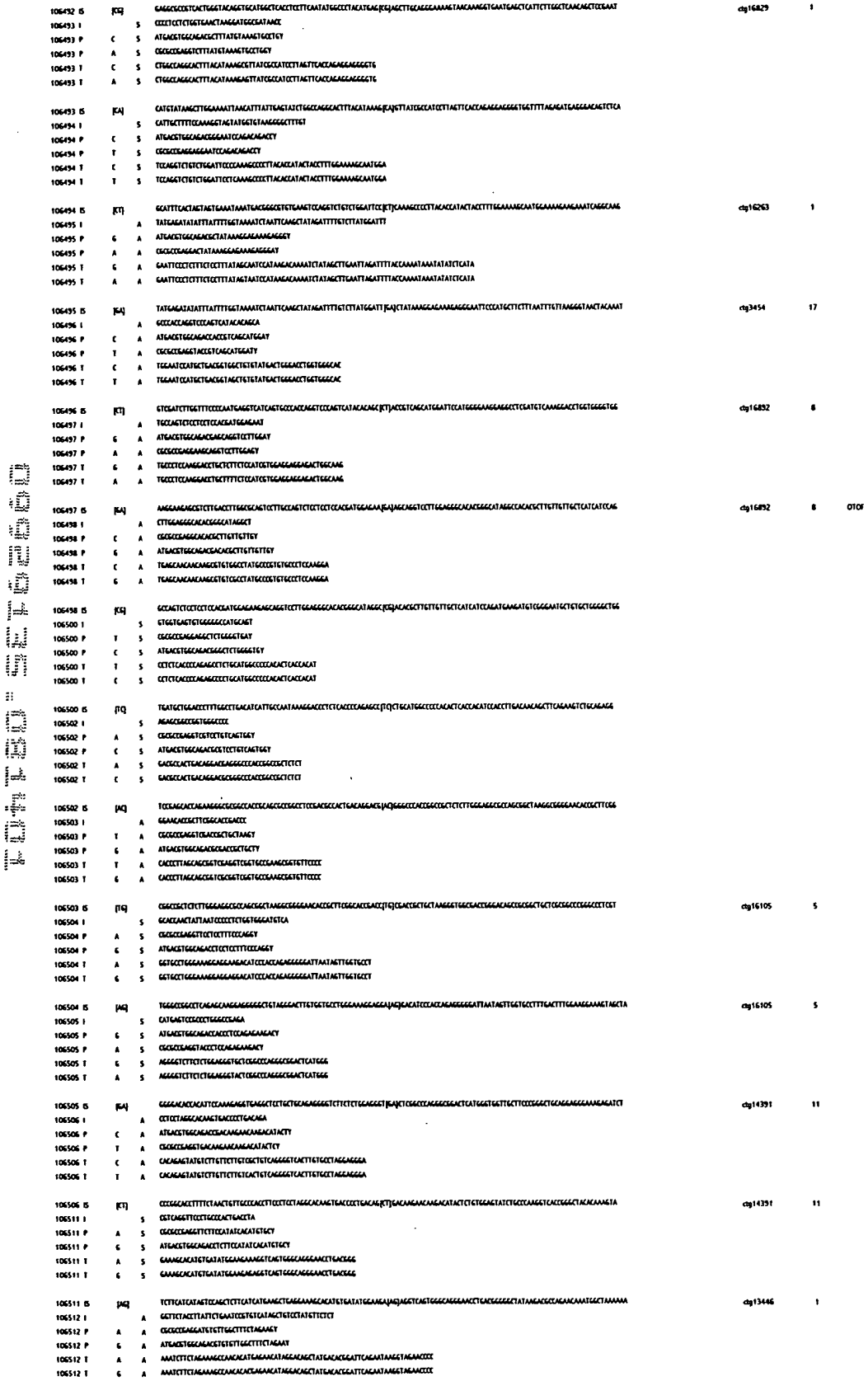


FIGURE 129G

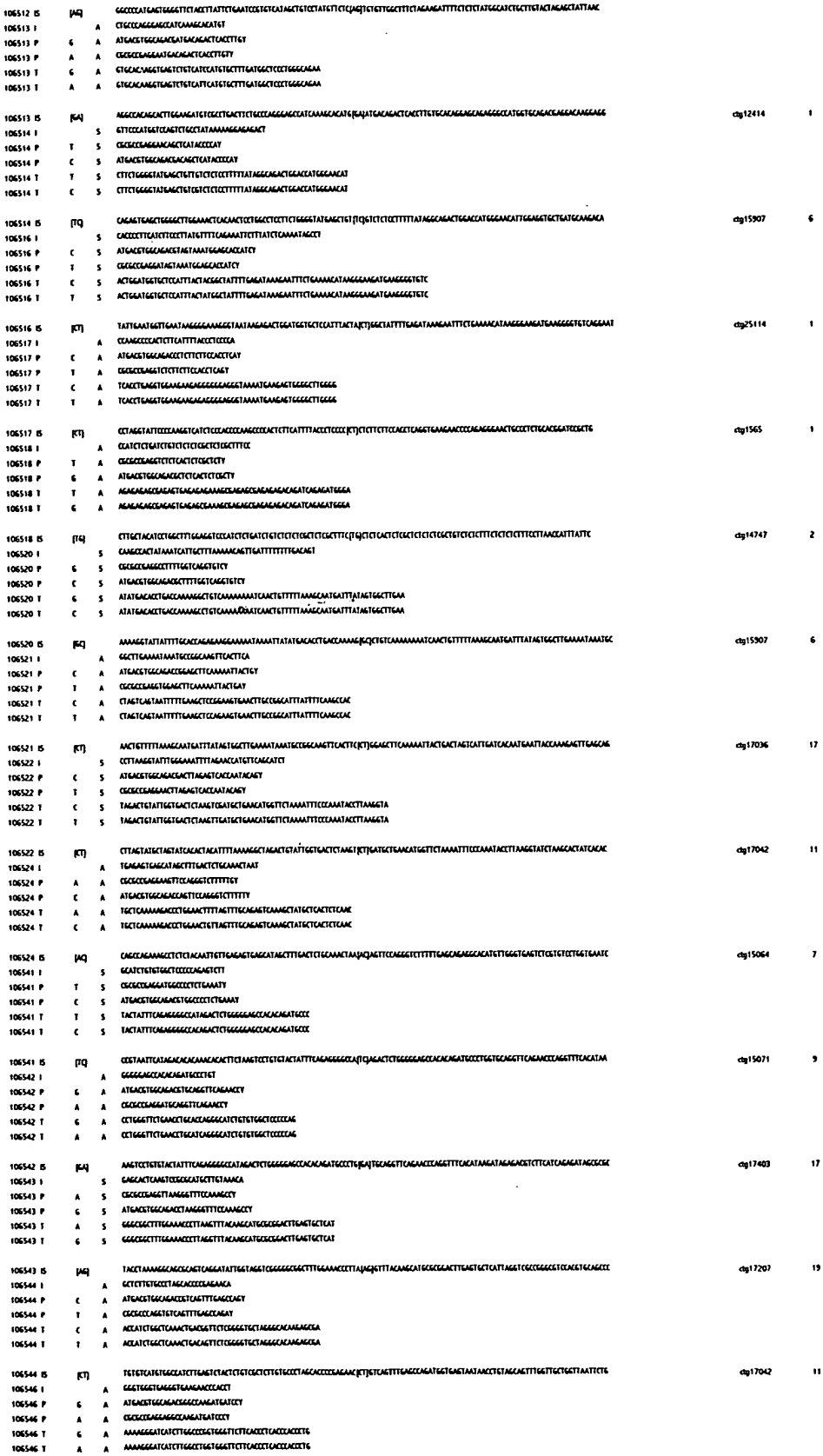
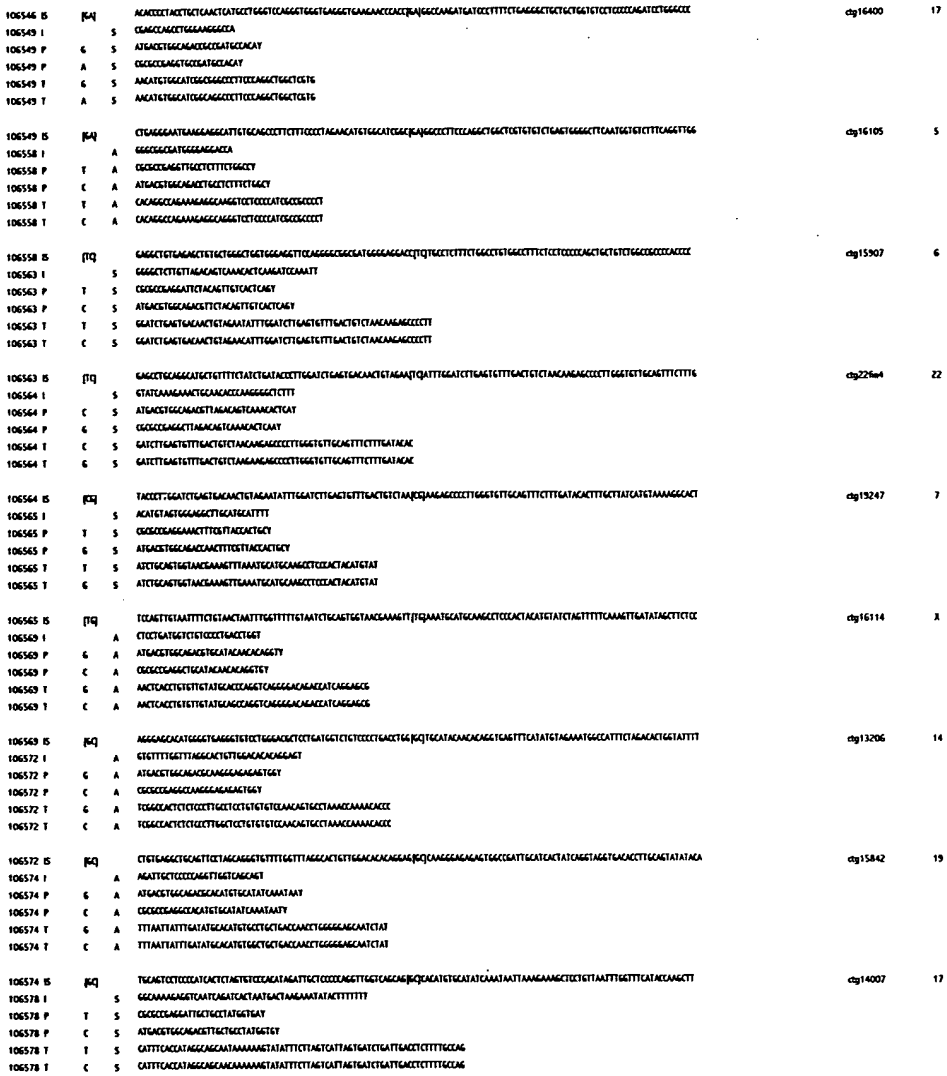
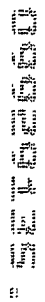


FIGURE 129G





106589 IS	[TC]		AGCCTAAAAGCGTTGAAAGATTATGTGCAGGGTCAAGGTGAAGGTGAAAAGGGAGATGAATJTQGTCAGAAATATGGGAATGGGAATTGGAGAGGCTGAAGAGGCAGTGGTGGGGAGGATGGG	ctg17403	17
106593 I		A	CAATCTGTCCATTCACCTTAGGTGCCTTTCACCT		
106593 P	G	A	ATGACGTGGCAGACGTAGCTGCTTCCAGCCY		
106593 P	A	A	CGCGCCGAGGATAGCTCCTTCCAGCCY		
106593 T	G	A	TCCCGGCTGGAAGGAGCTACGGTGAAAGGGCACCTAAGGTGAATGGACAGATTGTA		
106593 T	A	A	TCCCGGCTGGAAGGAGCTATGGTGAAAGGGCACCTAAGGTGAATGGACAGATTGTA		
106593 IS	[GA]		TACATTTTCCTGTGTGCACCCATCTACAATCTGTCCATTCACCTTAGGTGCCTTTCACC[GA]TAGCTCCTTCCAGCCGGGATACCCGAACAGGGCAAAACATCAGATCCTTAGAATGTGCAA	ctg17036	17
106594 I		S	CCATCAAGCCGACGGAGCTTTCAAAAAAATAAAAGATGCATTTCTTTACTTT		
106594 P	C	S	ATGACGTGGCAGACGTAAGTATTTGTCTTTGCAAAGGY		
106594 P	T	S	CGCGCCGAGGATAAGTATTTGTCTTTGCAAAGGY		
106594 T	C	S	GAGCCCTTTGCAAAGACAAATACTTACAAGTAAAGAAATGCATCTTTTATTTTTTTGAAAGTCCGTCGGCTTGATGGCA		
106594 T	T	S	GAGCCCTTTGCAAAGACAAATACTTATAAGTAAAGAAATGCATCTTTTATTTTTTGAAAGTCCGTCGGCTTGATGGCA		
106594 IS	[CT]		TAGAATGTGCAAACTTCTGTGCTACCATATCAGAGAGCCCTTTGCAAAGACAAATACTTA[CT]AAGTAAAGAAATGCATCTTTTATTTTTTTGAAAGTCCGTCGGCTTGATGGCATGAGAGTT	ctg13740	5
106595 I		A	GCAGAGGGCAGTGGCCTGCCA		
106595 P	C	A	ATGACGTGGCAGACCTCTCCAATCCACAGACAY		
106595 P	T	A	CGCGCCGAGGTTCTCCAATCCACAGACAY		
106595 T	C	A	CACATGTCTGTGGATTGGAGAGGGCAGGCCACTGCCCTCTCCAG		
106595 T	T	A	CACATGTCTGTGGATTGGAGAGGGCAGGCCACTGCCCTCTCCAG		
106595 IS	[CT]		GTGCAGGGAGGGTGGGGAACAAGAACCGGCTTGGTCCTGGAGAGGGCAGTGGCCTGCCC[CT]TCTCCAATCCACAGACATGTGGGGTGTCTGGTTTTCTGTGGCCCTCAGAGGCCCACCCAC	ctg832	11
106596 I		S	AGGGCTCATGAATCTCATTCTCTTAGCTGGGCGC		
106596 P	A	S	CGCGCCGAGGTGCAACAGACAACAGT		
106596 P	C	S	ATGACGTGGCAGACGGCAACAGACCAACAGY		
106596 T	A	S	TTATCTGTTGGTCTGTTGCAGGCCCAGCTAAGAGAATGAGATTCATGAGCCCTGG		
106596 T	C	S	TTATCTGTTGGTCTGTTGCCCGCCCAGCTAAGAGAATGAGATTCATGAGCCCTGG		
106596 IS	[AC]		CCCACCCACAGACTCTTTCTCATTTCTCTGTTTAGGATGAGTTATCTGTTGGTCTGTTGCJACJCGCCCAGCTAAGAGAATGAGATTCATGAGCCCTGGCCCTGACAGAGGCCACTTCCCCCAT	ctg832	11
106598 I		S	AGGTCAGCATCTTTGGAGAAAAGTGAATGAAAACAGACACT		
106598 P	G	S	ATGACGTGGCAGACCCTGAGATAACTACCACCTY		
106598 P	T	S	CGCGCCGAGGACTGAGATAACTACCACCTTY		
106598 T	G	S	TAAGAAGGTGGTAGTTATCTCAGGGTGTCTGTTTTCATTCACTTTTCTCCAAAGGATGCTGACCTGT		
106598 T	T	S	TAAGAAGGTGGTAGTTATCTCAGTGTGTCTGTTTTCATTCACTTTTCTCCAAAGGATGCTGACCTGT		
106598 IS	[GT]		CTTGGACCAACTGCTTTTAATAAATGTTTCTTCACATTAAGAAGGTGGTAGTTATCTCAG[GT]GTGTCTTGTTTTCATTCACTTTTCTCCAAAGGATGCTGACCTGTTGGATGTTGAAAGCAA	ctg226m4	22
106604 I		S	GGGGATGGGGAGGAAAGTATGTTTCTGGGT		
106604 P	T	S	CGCGCCGAGGAAGTAAGAACGAGCGACY		
106604 P	C	S	ATGACGTGGCAGACGAGTAAGAAGCAGCGACY		
106604 T	T	S	ACAGCTCGCTGCTTCTTACTTCCCAGAAACATACCTTCCTCCCCATCCCCAC		
106604 T	C	S	ACACGTCGCTGCTTCTTACTCCCCAGAAACATACCTTCCTCCCCATCCCCAC		
106604 IS	[TC]		TGTACTACACACTGGTGACTTCTCTCGACTTCTCCTGTAACACACGTCGCTGCTTCTTACT[TC]CCCCAGAAACATACCTTCCTCCCCATCCCCACCCCTACCGAAAAGAGAGCATCCACGCCTC	ctg226m3	22
106606 I		A	GCCAGTGAAGTCCATACAGTCTACCAACAGGTGAGAAATACT		
106606 P	A	A	CGCGCCGAGGAGCTGATTTCAGGTTTAAACY		
106606 P	G	A	ATGACGTGGCAGACGGCTGATTTCAGGTTTAAACY		
106606 T	A	A	AAGGGTTTAAACCTGAAATCAGCTGTATTTCTCACCTGTTGGTAGACTGTATGGACTTCACTGGCTG		
106606 T	G	A	AAGGGTTTAAACCTGAAATCAGCGTATTTCTCACCTGTTGGTAGACTGTATGGACTTCACTGGCTG		
106606 IS	[AG]		CCAAGTTCAGGGCCCTTCAGCCAGTGAAGTCCATACAGTCTACCAACAGGTGAGAAATACJAG]GCTGATTTCAGGTTTAAACCCTTTAGAACTACAGGAAGGAAAGTCACGAAGCCCTCACACT	ctg17140	16
106607 I		A	GCTGTTCGGGTGGCGGCAGCA		
106607 P	C	A	ATGACGTGGCAGACCAGGACAGCGTTCCCY		
106607 P	T	A	CGCGCCGAGGTAGGACAGCGTTCCCY		
106607 T	C	A	CCGCGGGAACGCTGTCCTGGCTGCCGCCACCCGAACAGCCT		
106607 T	T	A	CCGCGGGAACGCTGTCCTAGCTGCCGCCACCCGAACAGCCT		
106607 IS	[CT]		ATGACTGGGCGCGGGGCAGGGAGCCGGGGCACCAGGACAGGCTGTTCGGGTGGCGGCAGC[CT]AGGACAGCGTTCCCGCGGCGCCCAGGCCAGACTGGACGGGAGCGGGGCGGGTCGCGATGCT	ctg17140	16
106608 I		S	CGTAAAGGGCAGAGGATGTTATGGAAGCAAGGGAT		
106608 P	C	S	ATGACGTGGCAGACGGTTCTCTCCAGATGGCY		
106608 P	T	S	CGCGCCGAGGAGTTCTCTCCAGATGGCY		
106608 T	C	S	ATGGGCCATCTGGAGAGAACTCCCTTCCTCCATAACATCTCTGCCCTTTACGCC		
106608 T	T	S	ATGGGCCATCTGGAGAGAACTTCCCTTCCTCCATAACATCTCTGCCCTTTACGCC		
106609 IS	[CT]		CTGAGCTGTTAAGCCAGAAGAAAATGACTGCTGTCTCAGCATGGGCCATCTGGAGAGAAC[CT]TCCCTTCCTCCATAACATCTCTGCCCTTTACGCCAACCTCCCACTGCTTCCACAACCTC	MULTIPLE	MULTIPLE
106609 I		S	CCAGCTCTGCAGAGTGAGCAGCAGCAT		
106609 P	G	S	CGCGCCGAGGCACTCCCAGCCTAGGT		
106609 P	C	S	ATGACGTGGCAGACACTCCCAGCCTAGGT		
106609 T	G	S	AAATCCTAGGCTGGGAGTGTGCTGCTGCTCACTCTGCAGAGCTGGTT		
106609 T	C	S	AAATCCTAGGCTGGGAGTCTGCTGCTGCTCACTCTGCAGAGCTGGTT		
106609 IS	[GC]		CTCTTGGAGGCTCCATCGCAGGGCCCTTTGACCAGCTGGAGGAAATCCTAGGCTGGGAGT[GC]TGCTGCTGCTCACTCTGCAGAGCTGGTTGCCAAGGGAACGGTTGGCAAGCGAAGTGGGG	ctg15907	6
106610 I		A	CGGTAGAACAGACACAGGTACTGAACTCAACAACTAAGTCATCTA		
106610 P	T	A	CGCGCCGAGGTCAAGGCCTATCAAGTAAGAY		
106610 P	C	A	ATGACGTGGCAGACCCAAGGCCTATCAAGTAAGY		
106610 T	T	A	TGTTTCTTACTTGATAGGCCTTGAAGATGACTTAGTTGTTGAGTTCAGTACCTGTGTCTGTCTCACCGTG		
106610 T	C	A	TGTTTCTTACTTGATAGGCCTTGAAGATGACTTAGTTGTTGAGTTCAGTACCTGTGTCTGTCTCACCGTG		
106610 IS	[TC]		AGTAACATTCAGTGCACAGGTAGAACACACACAGGTACTGAACTCAACAACTAAGTCATCT[TC]CAGCAAGCCTATCAAGTAAGAAACAAATCTGTTAATATCACATACAAATAAAATAAGCAAGC	ctg2712	15
106613 I		S	GCCTGTGGGGAGCAGAGGCACT		
106613 P	C	S	ATGACGTGGCAGACGGCCTTGGAGAGAGCY		
106613 P	G	S	CGCGCCGAGGGCCTTGGAGAGAGCY		
106613 T	C	S	ACAGGCTCTCTCCAAGGCCGTGCCCCTCTGCTCCCCACAGGCAT		
106613 T	G	S	ACAGGCTCTCTCCAAGGCGGTGCCCCTCTGCTCCCCACAGGCAT		
106613 IS	[CG]		GTATATTTCAGACAACCGCCCCAGCTCAACAACTCACTAGCACAGGCTCTCTCCAAGGC[CG]CTGCCCCTCTGCTCCCCACAGGCATGGCCACACAGAAGCTAGGAATCATTAAAGAGTAACGC	ctg19085	10
106615 I		A	AGATGGGATACCTGGGGACGCAGCT		
106615 P	G	A	ATGACGTGGCAGACGGCTGAGCAGGGCY		
106615 P	A	A	CGCGCCGAGGAGCTGAGCAGGGCY		
106615 T	G	A	GGGCGCCTGCTCAGCCCCTGCCGTCCCCAGGTATCCCATCTGA		
106615 T	A	A	GGGCGCCTGCTCAGCTGCTGCCGTCCCCAGGTATCCCATCTGA		
106615 IS	[GA]		TCCAGAGGGCGCAAGAAGCGCTCCTCCAGGGCATTCAGATGGGATACCTGGGGACGCAGC[GA]GCTGAGCAGGGCGCCCCCCCCTCCCCACCTGGCCCCTCCTCAACTCCCGGCCCTCTCACC	ctg53	14
106619 I		S	GCCATGTTTGGGGCACCTTTATATCTCTCACCTTCTTT		
106619 P	T	S	CGCGCCGAGGATAACATAAAAATGCTATACAGCAT		
106619 P	C	S	ATGACGTGGCAGACCTAACATAAAAATGCTATACAGCAT		
106619 T	T	S	AAACTTGCTGTATAGCATTTTTATGTTATAAGAAGGTGAGAGAATATAAAGGTGCCCCAAACATGGCCC		
106619 T	C	S	AAACTTGCTGTATAGCATTTTTATGTTACAAGAAGGTGAGAGAATATAAAGGTGCCCCAAACATGGCCC		

FIGURE 129G

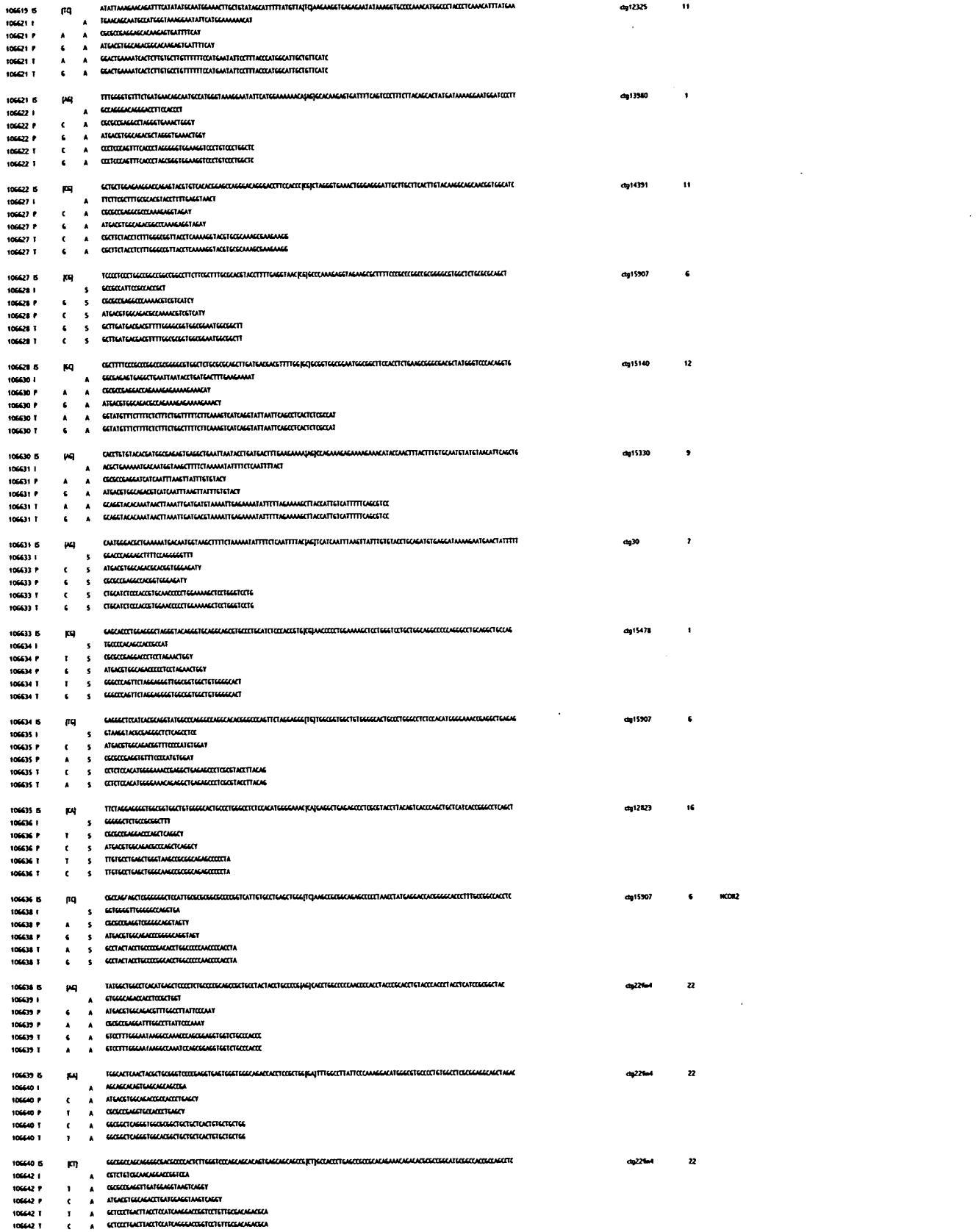


FIGURE 129G

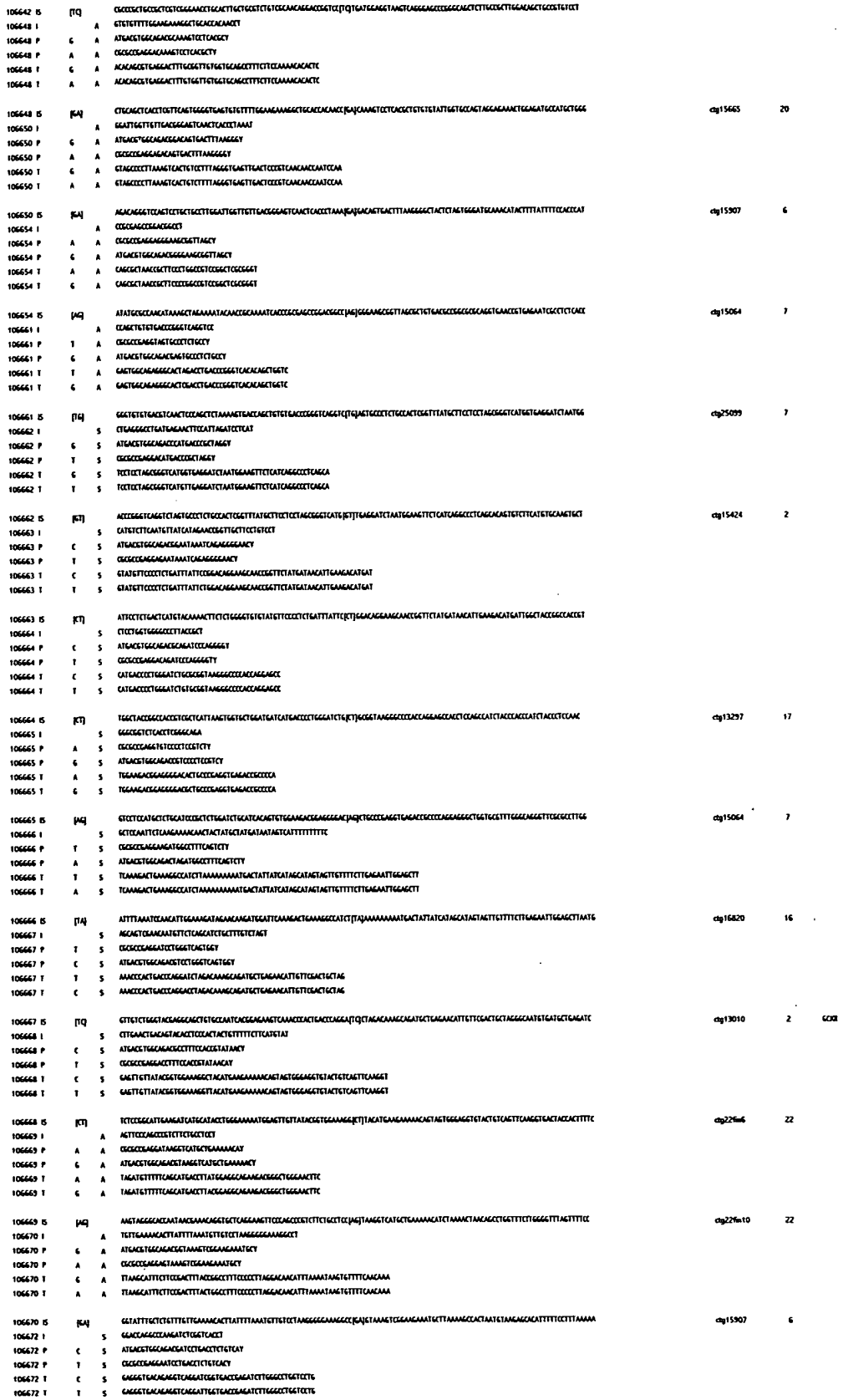


FIGURE 129G

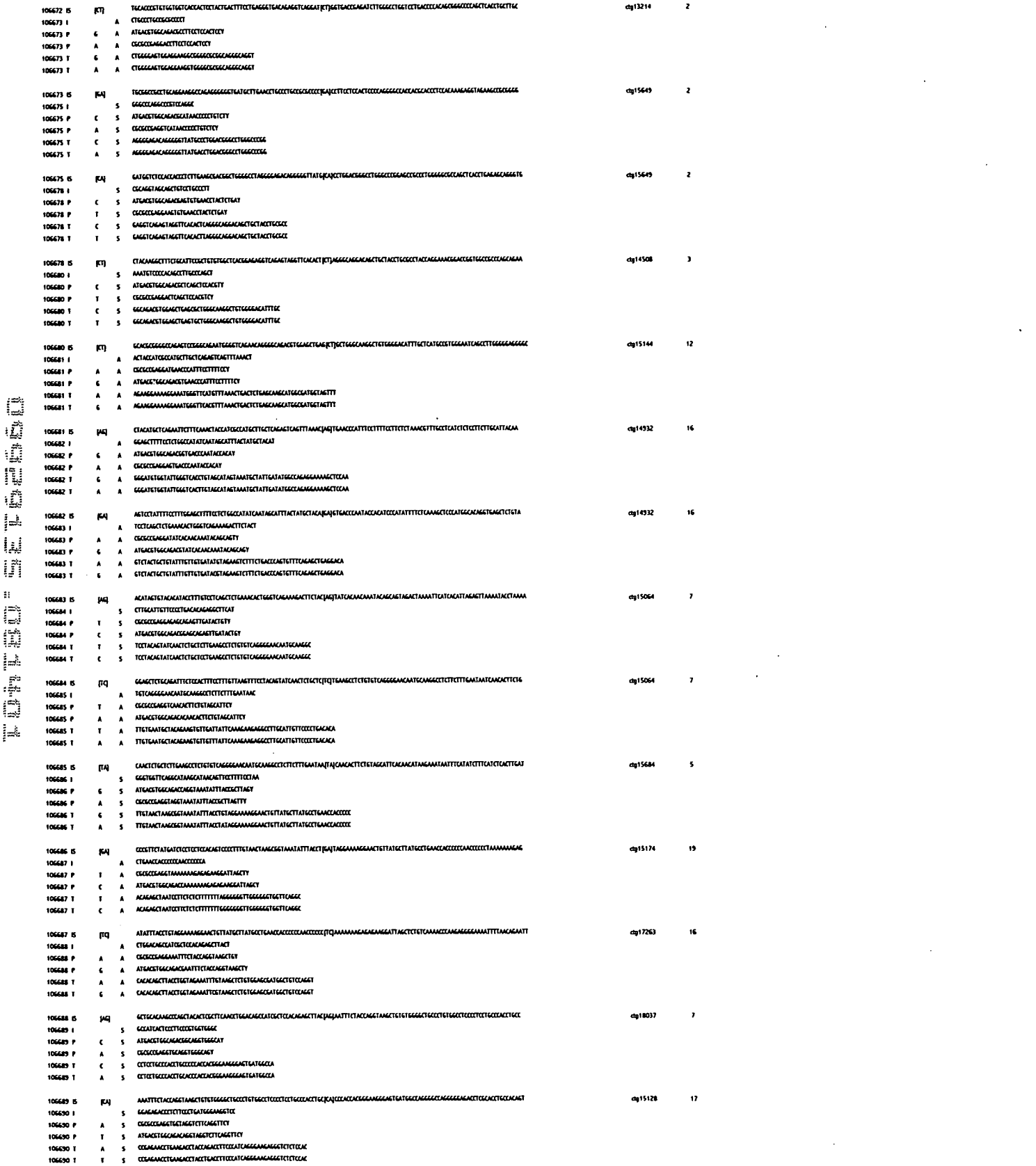
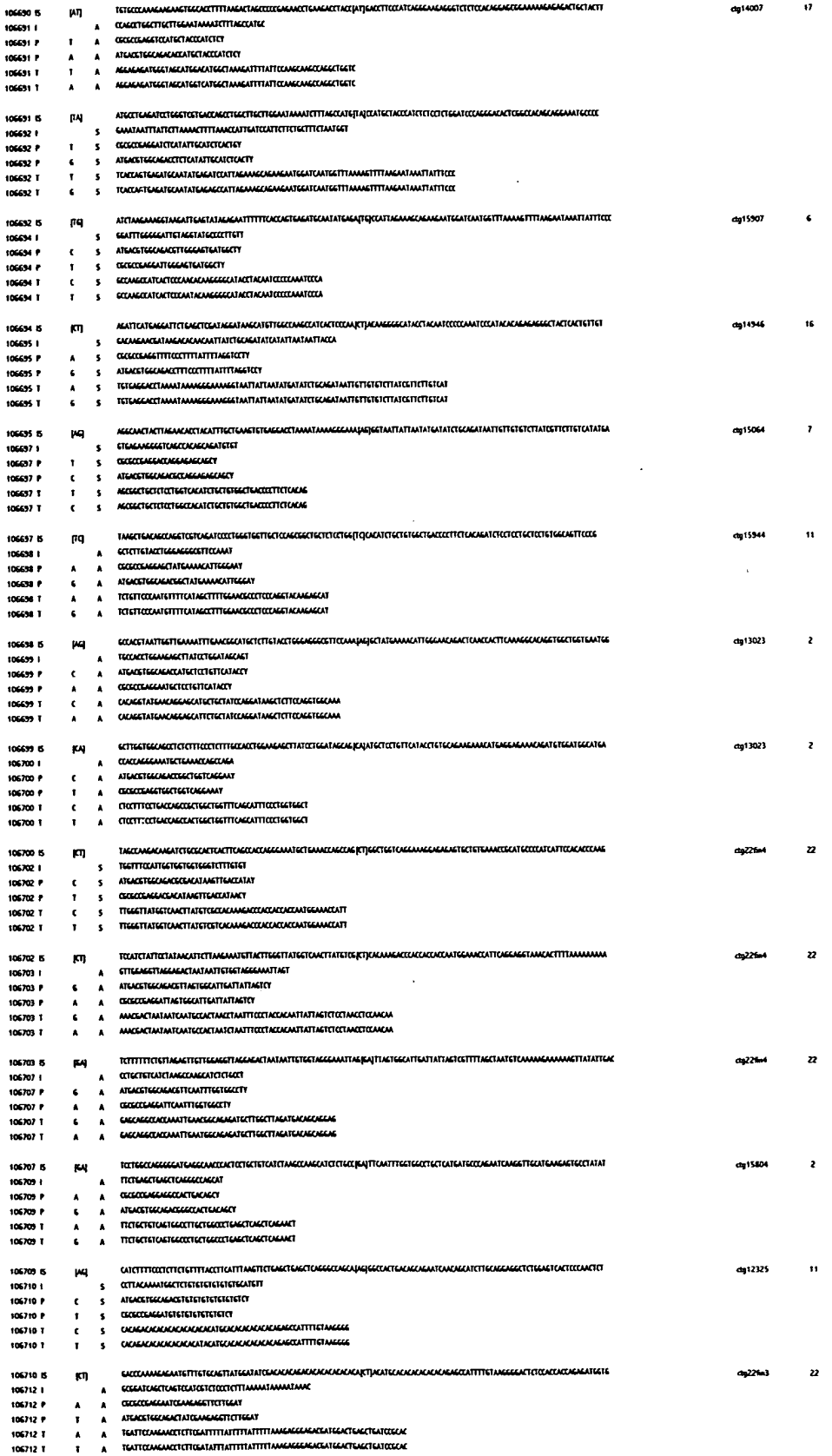
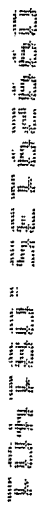
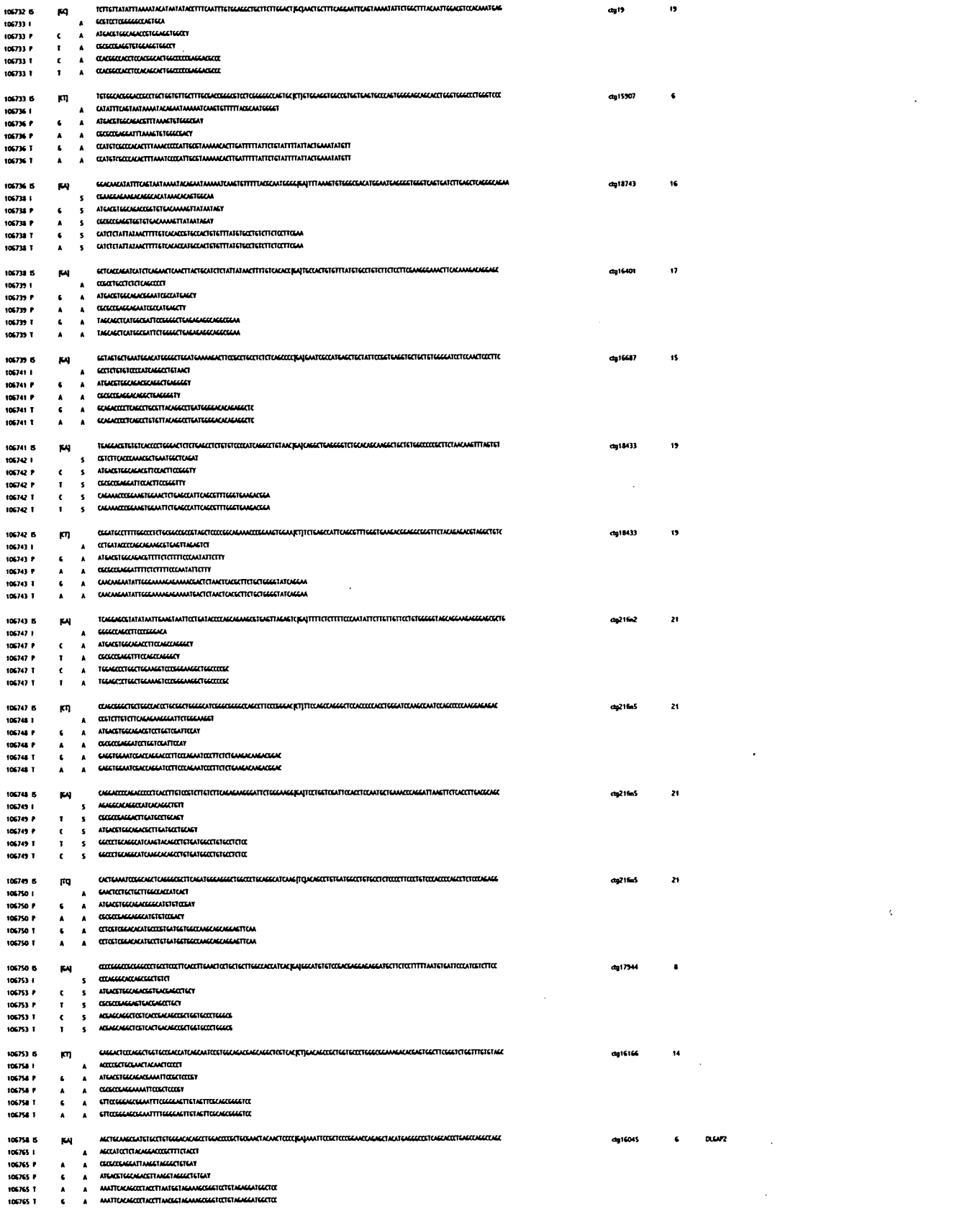


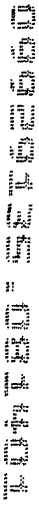
FIGURE 129G



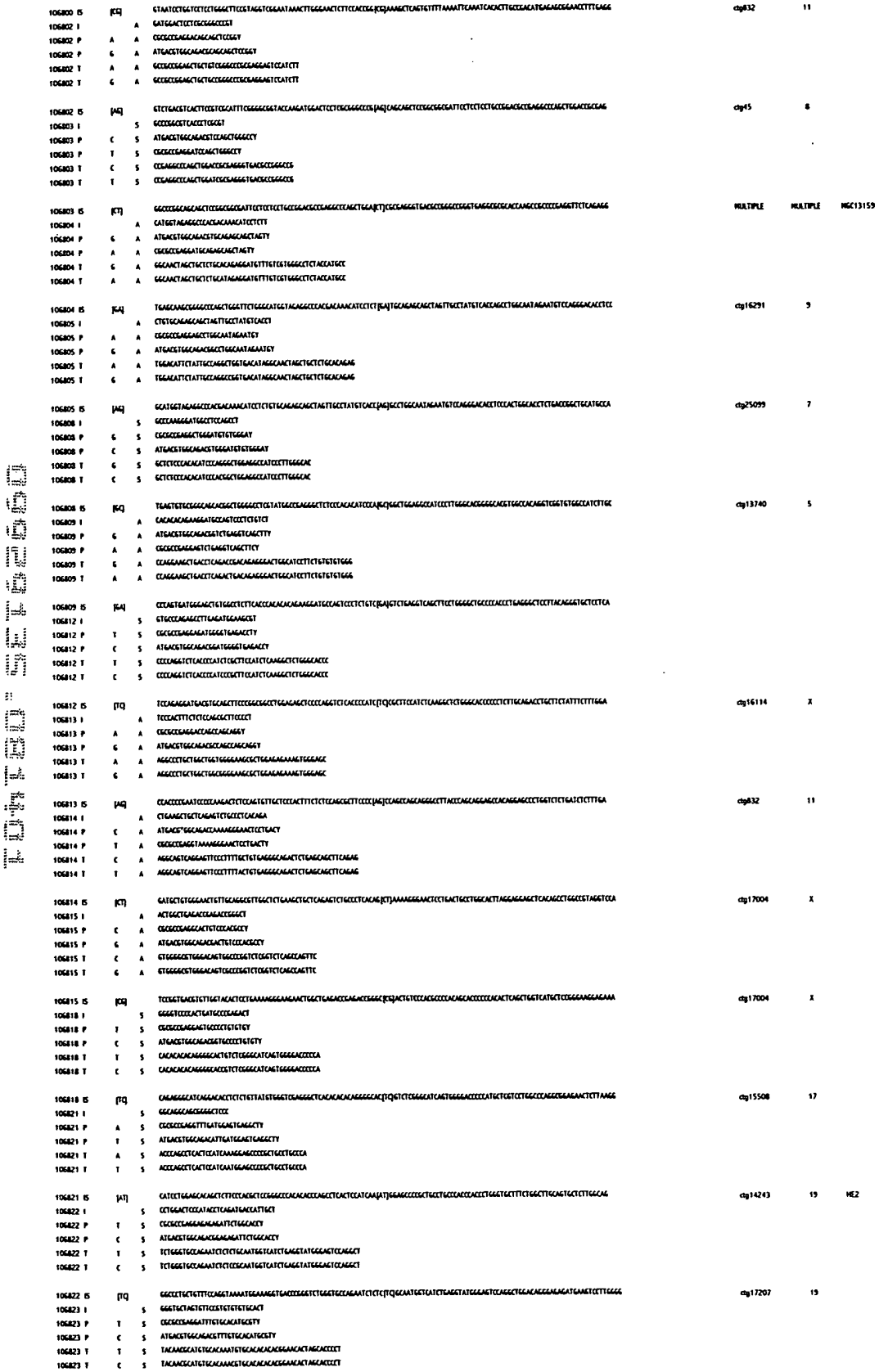
Inventor: Jon Pari Docket No.: 25230-20001.00 Express Mail No.: EV339920185US

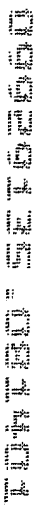


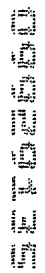


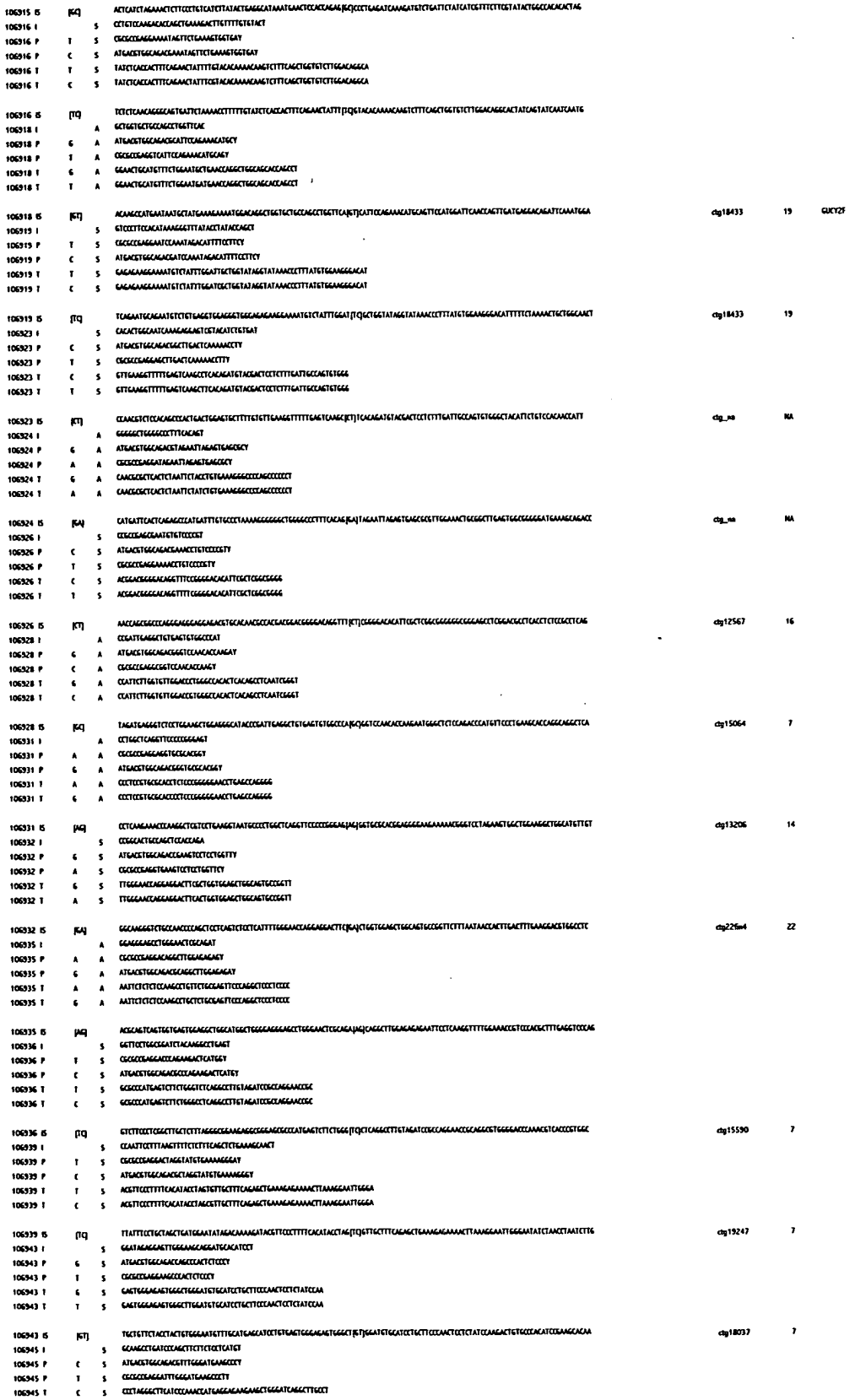


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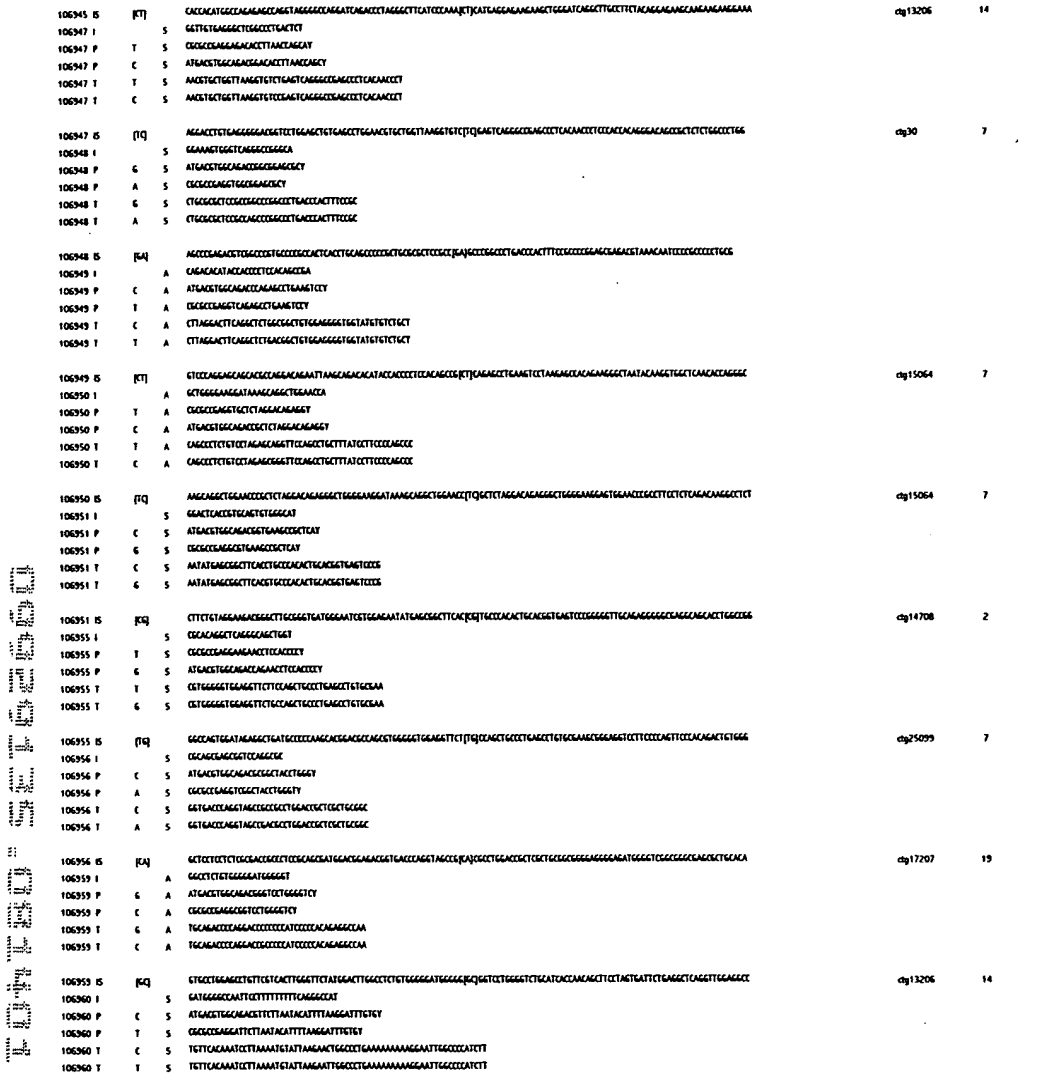
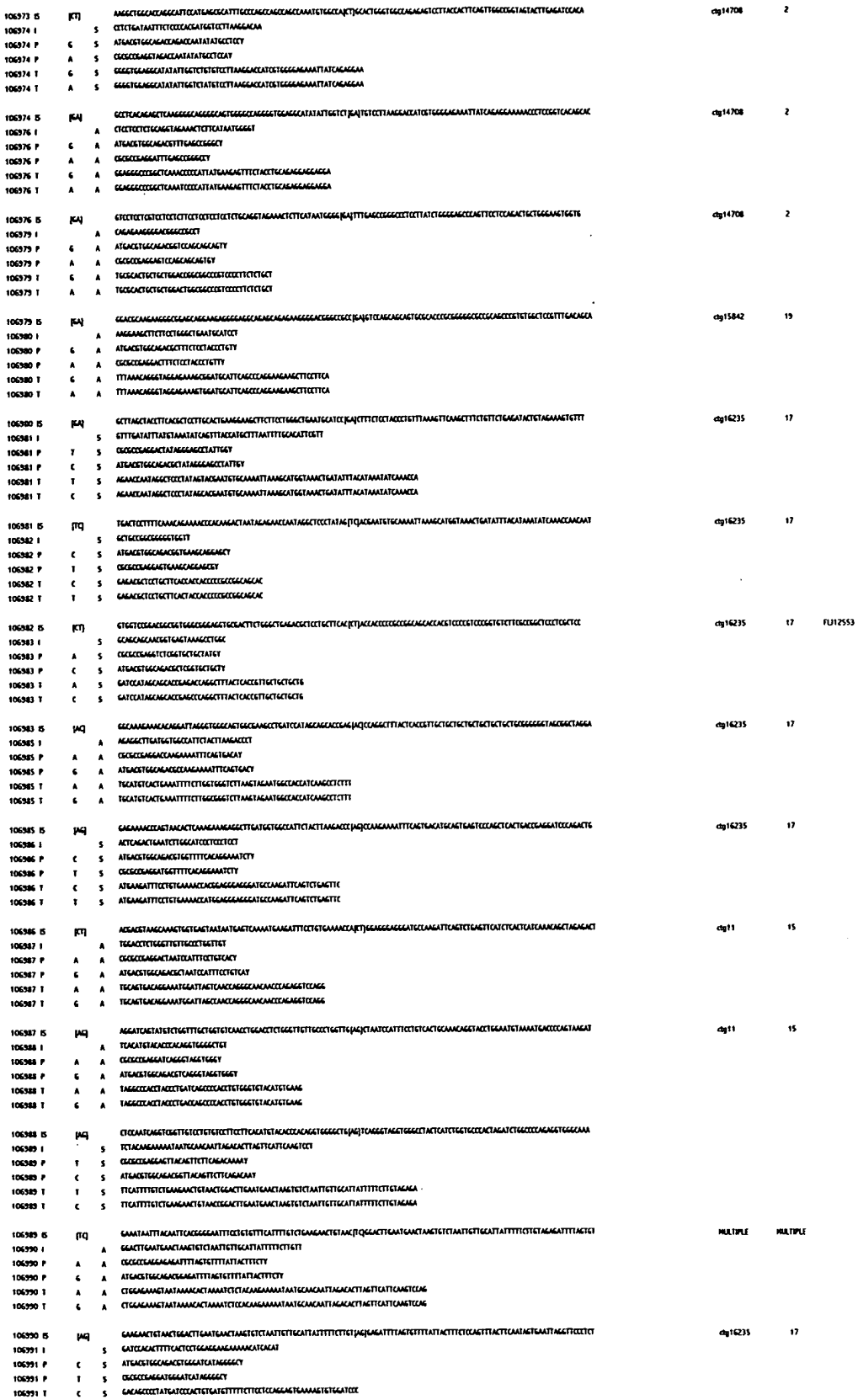


FIGURE 129G



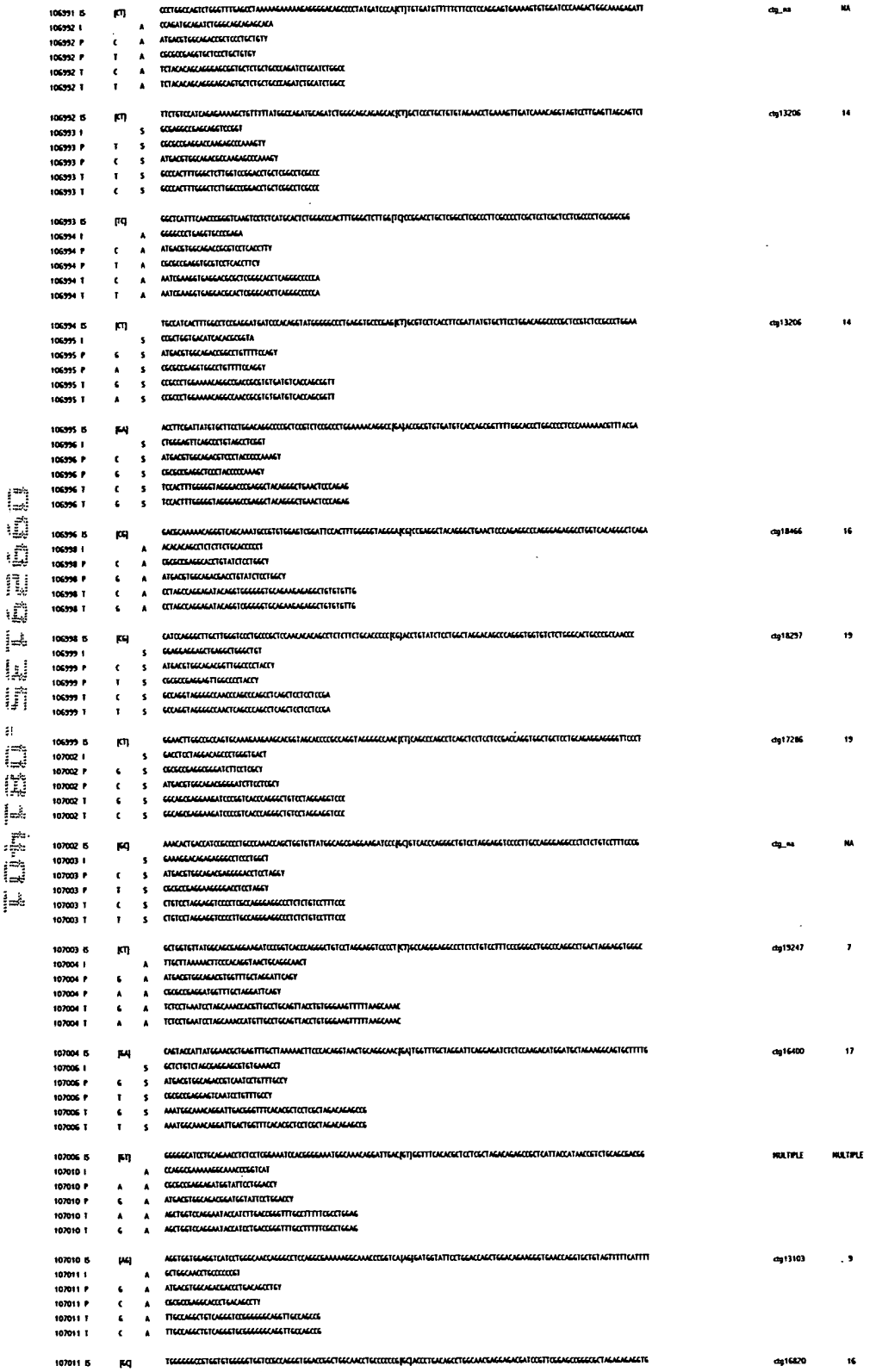


FIGURE 129G

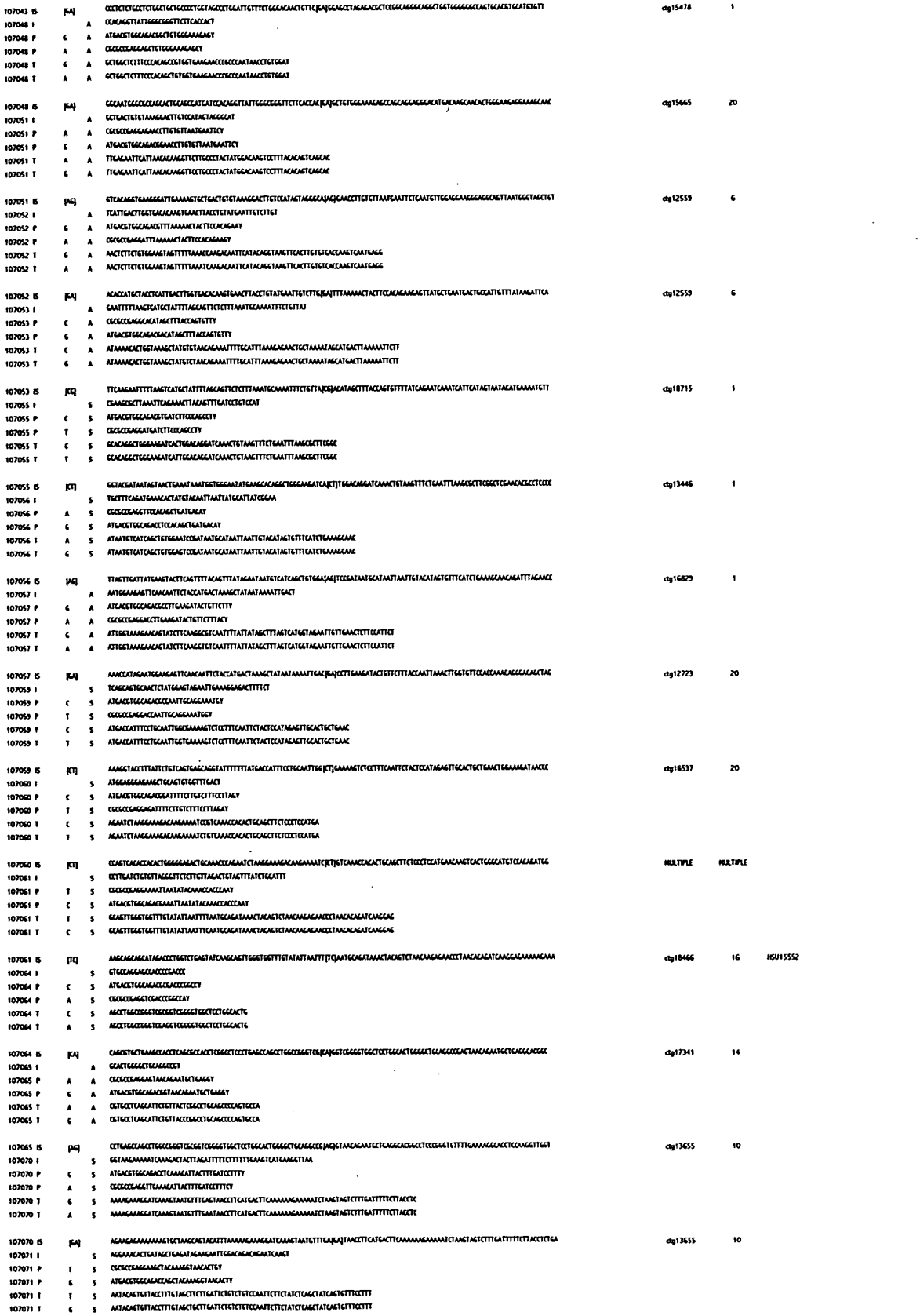
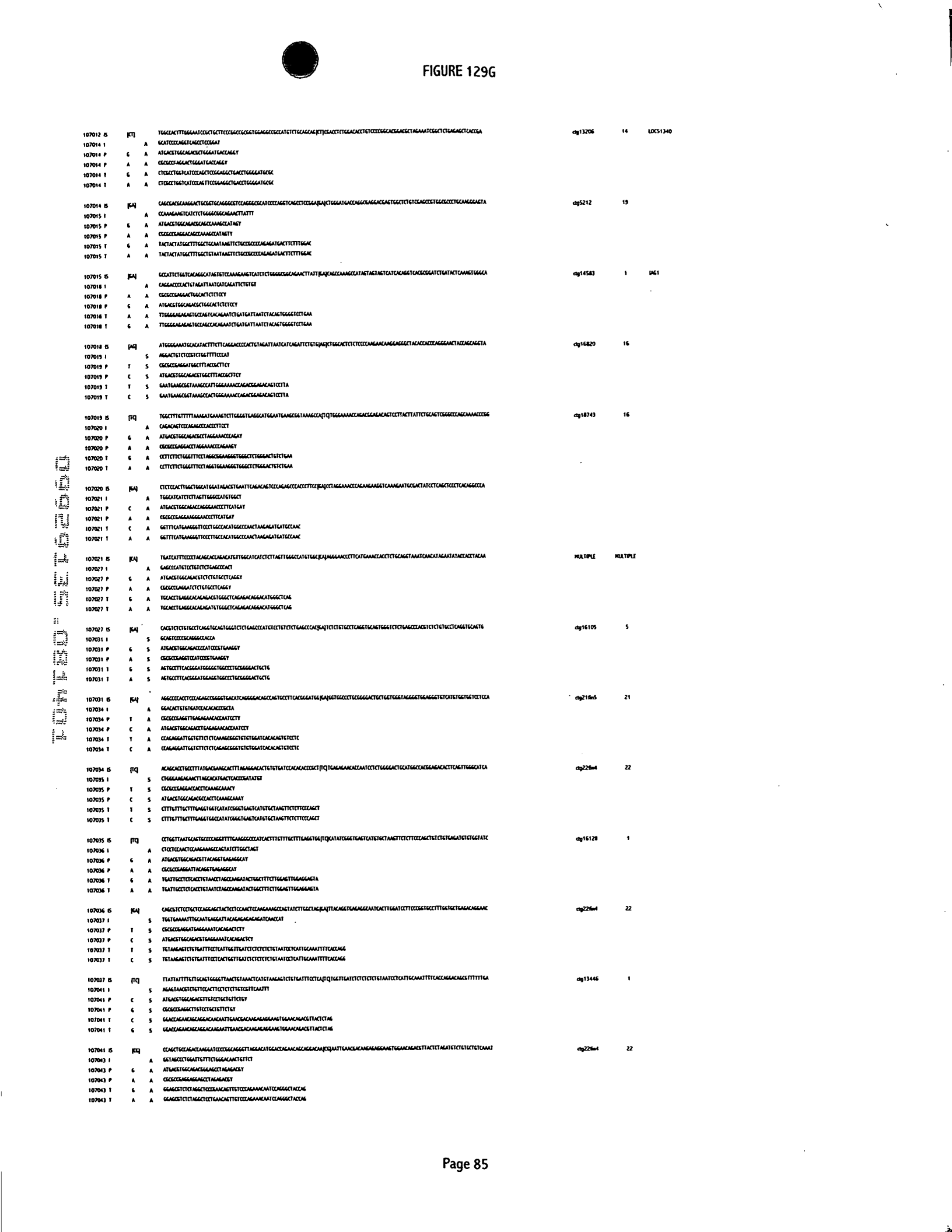
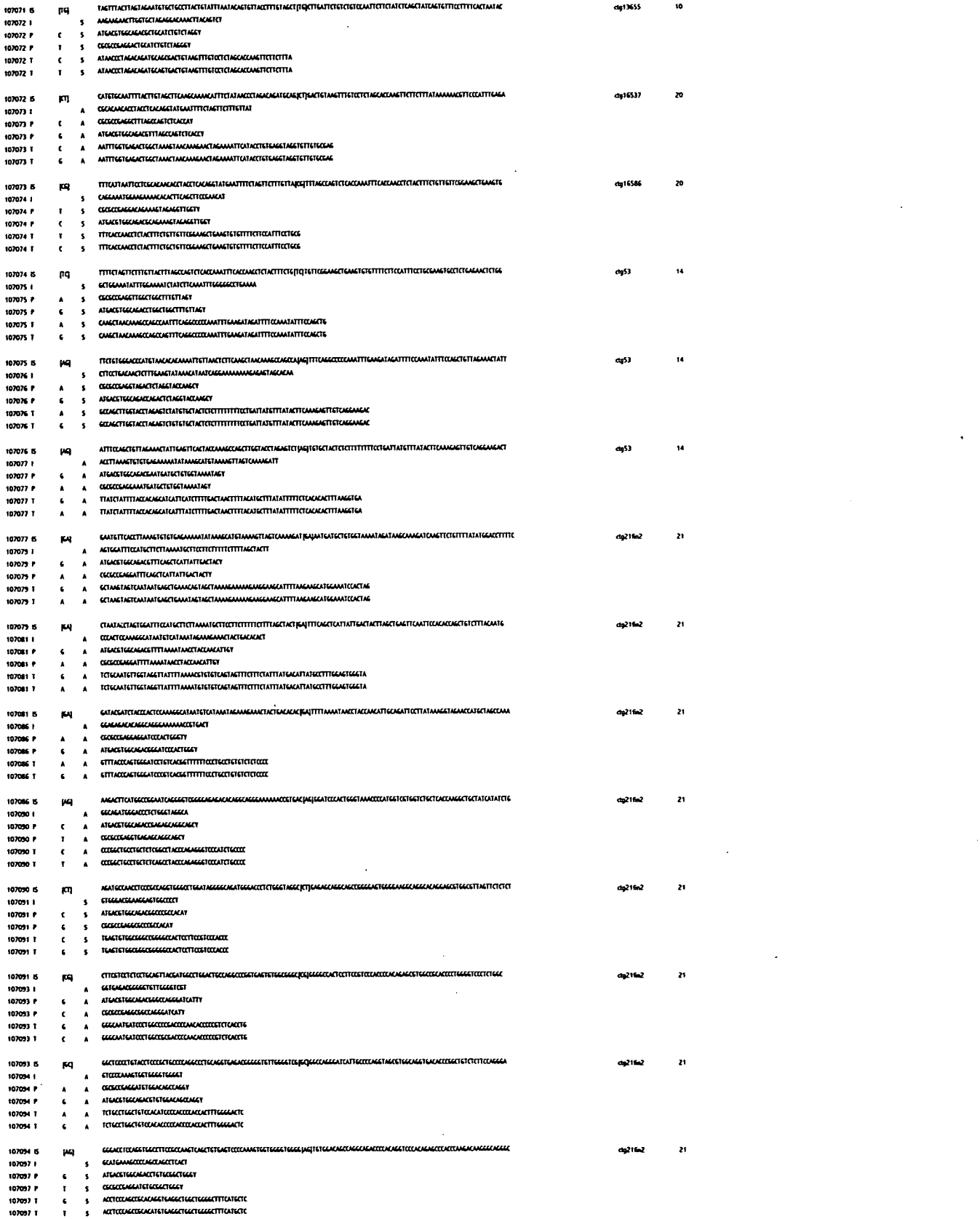


FIGURE 129G





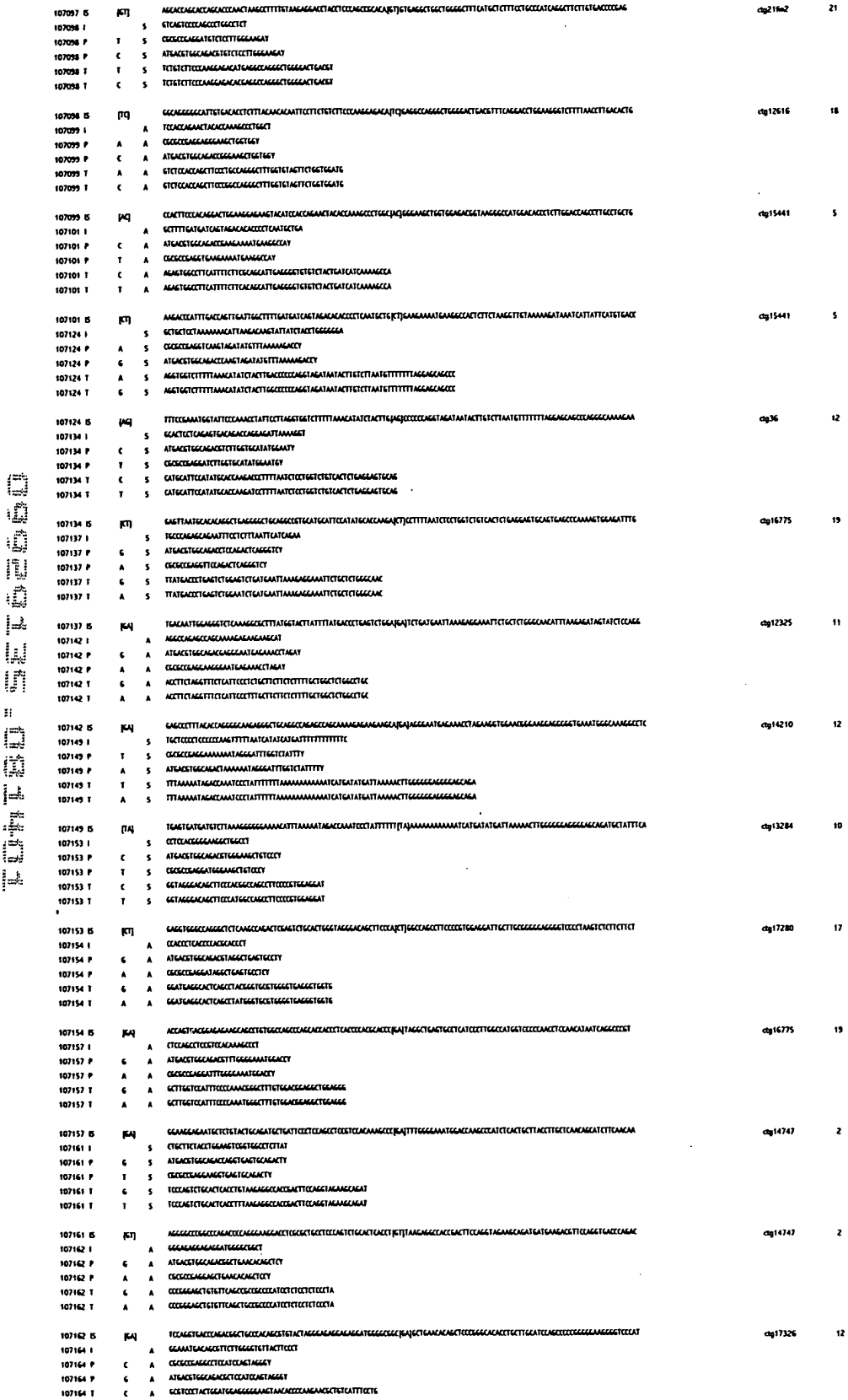
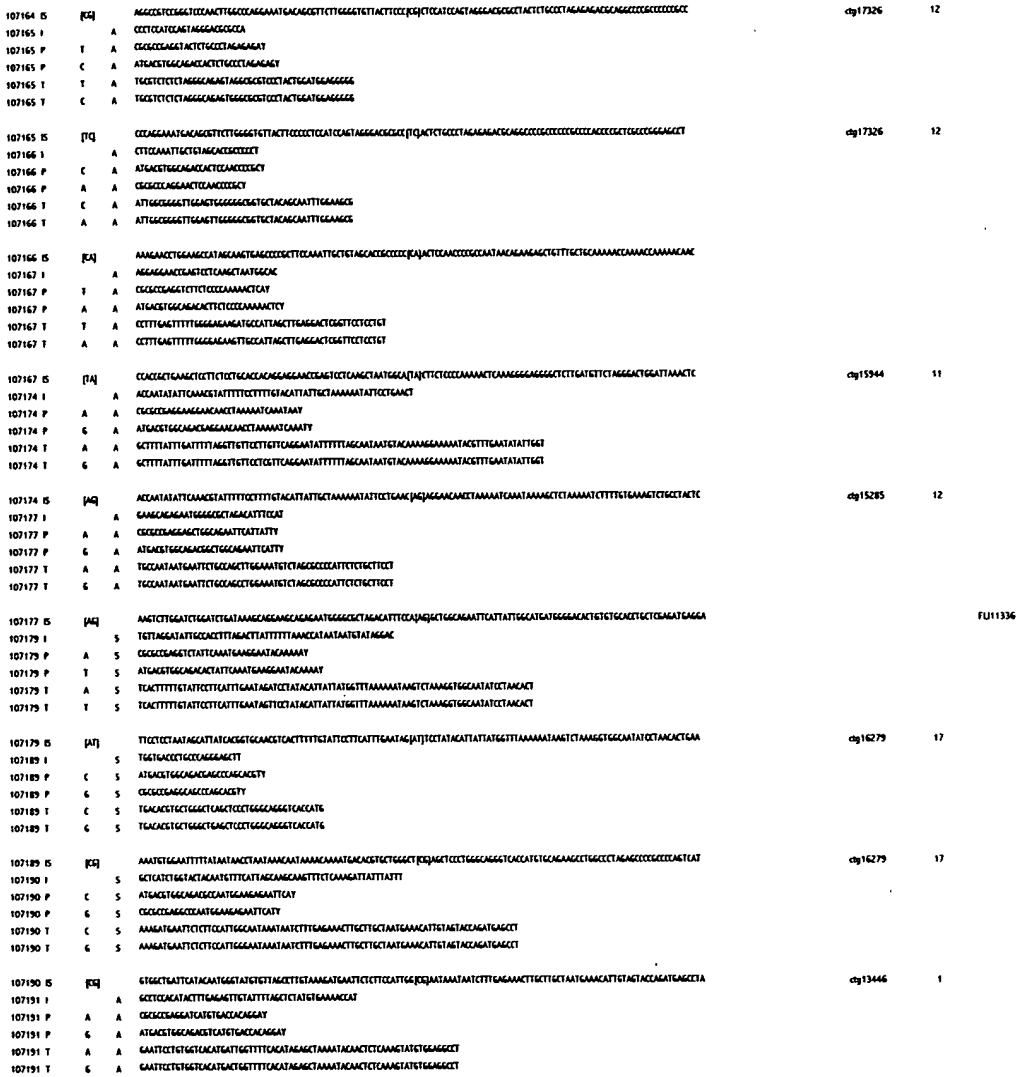
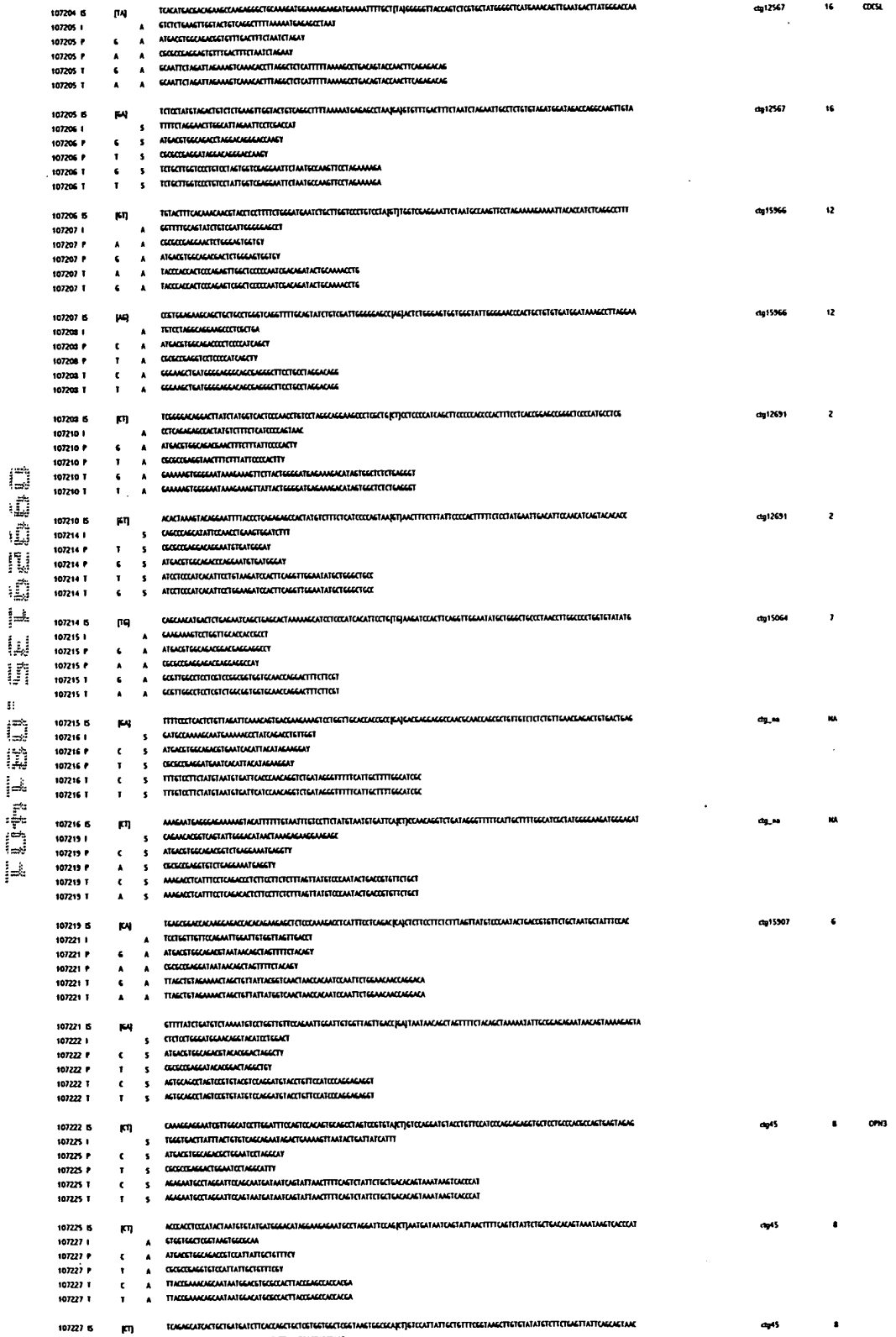


FIGURE 129G





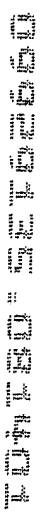
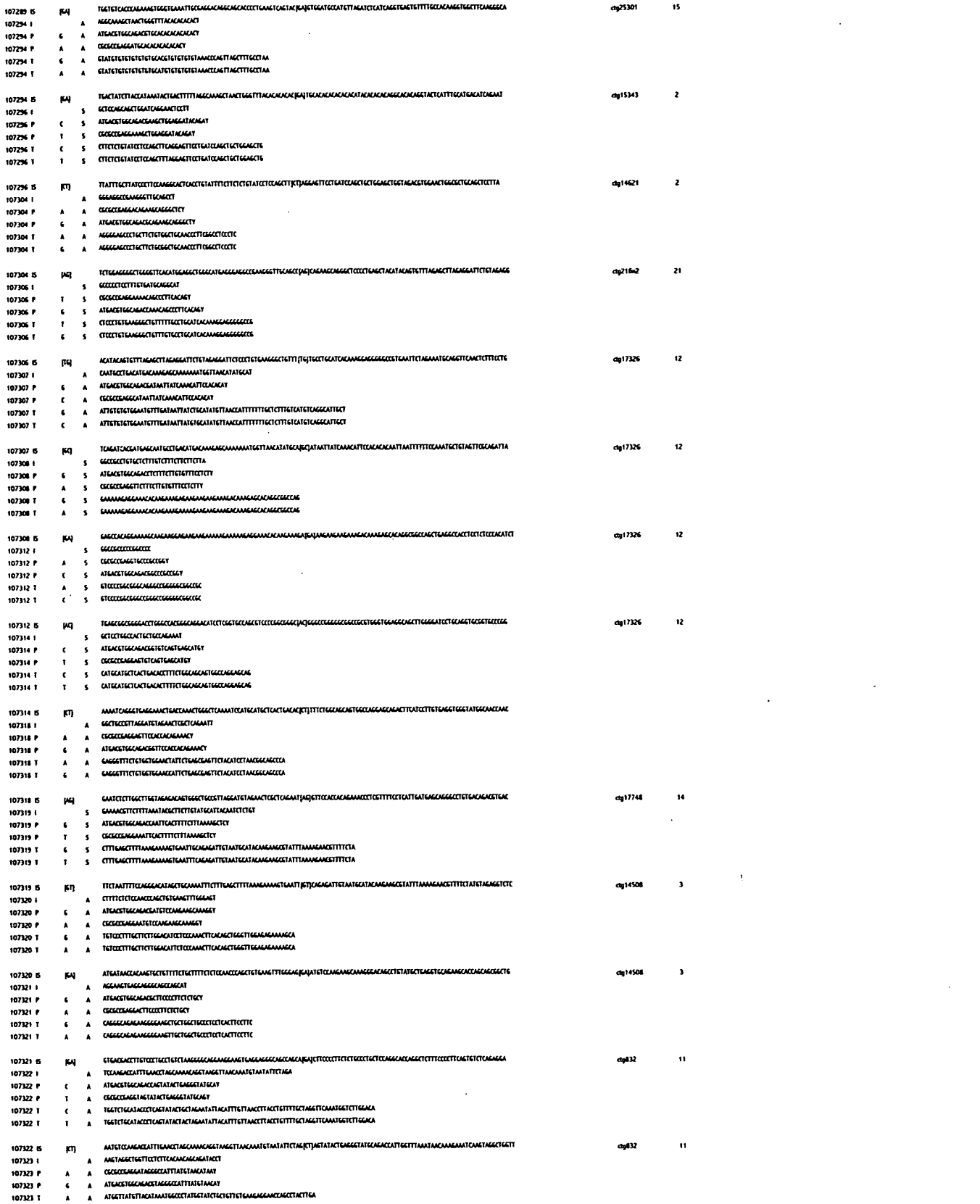
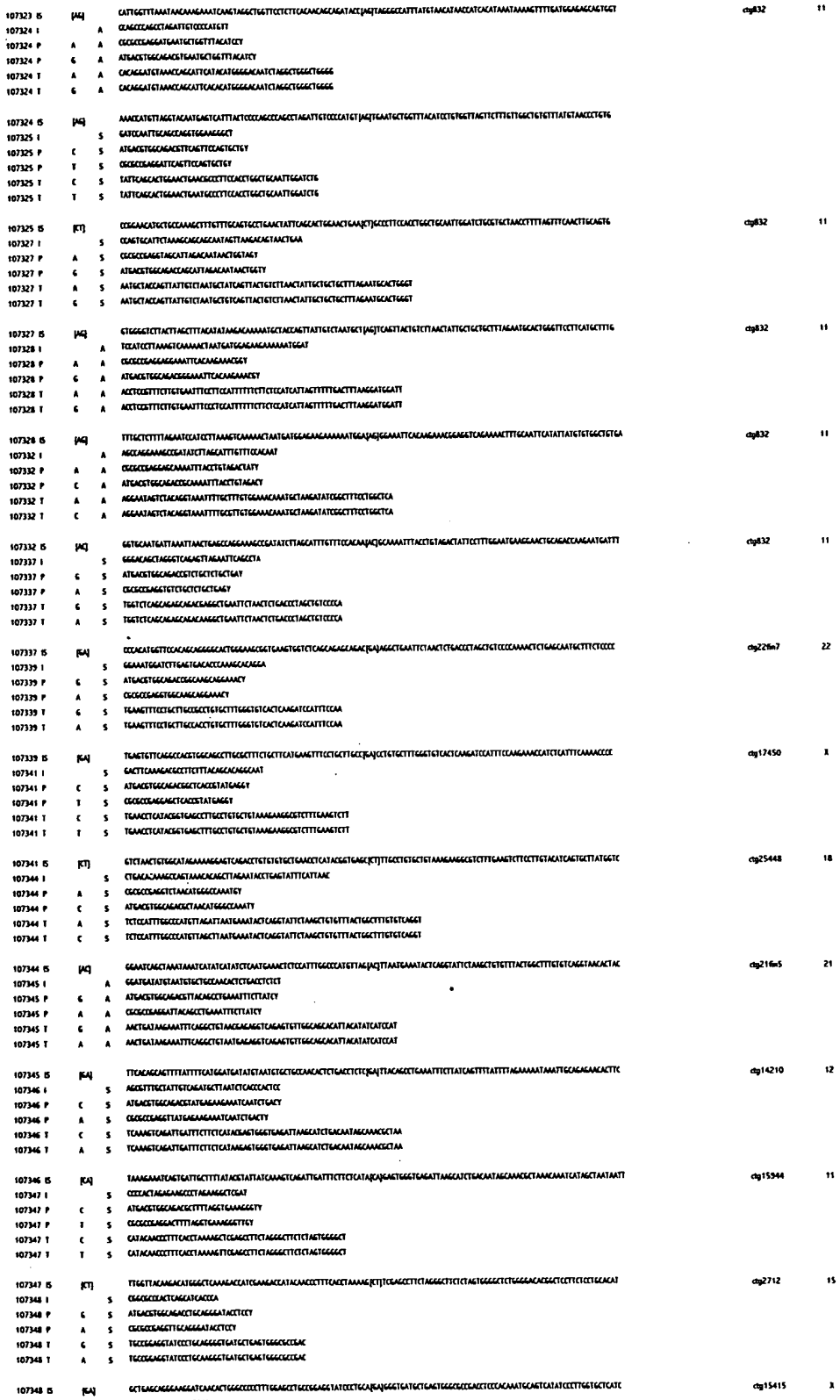


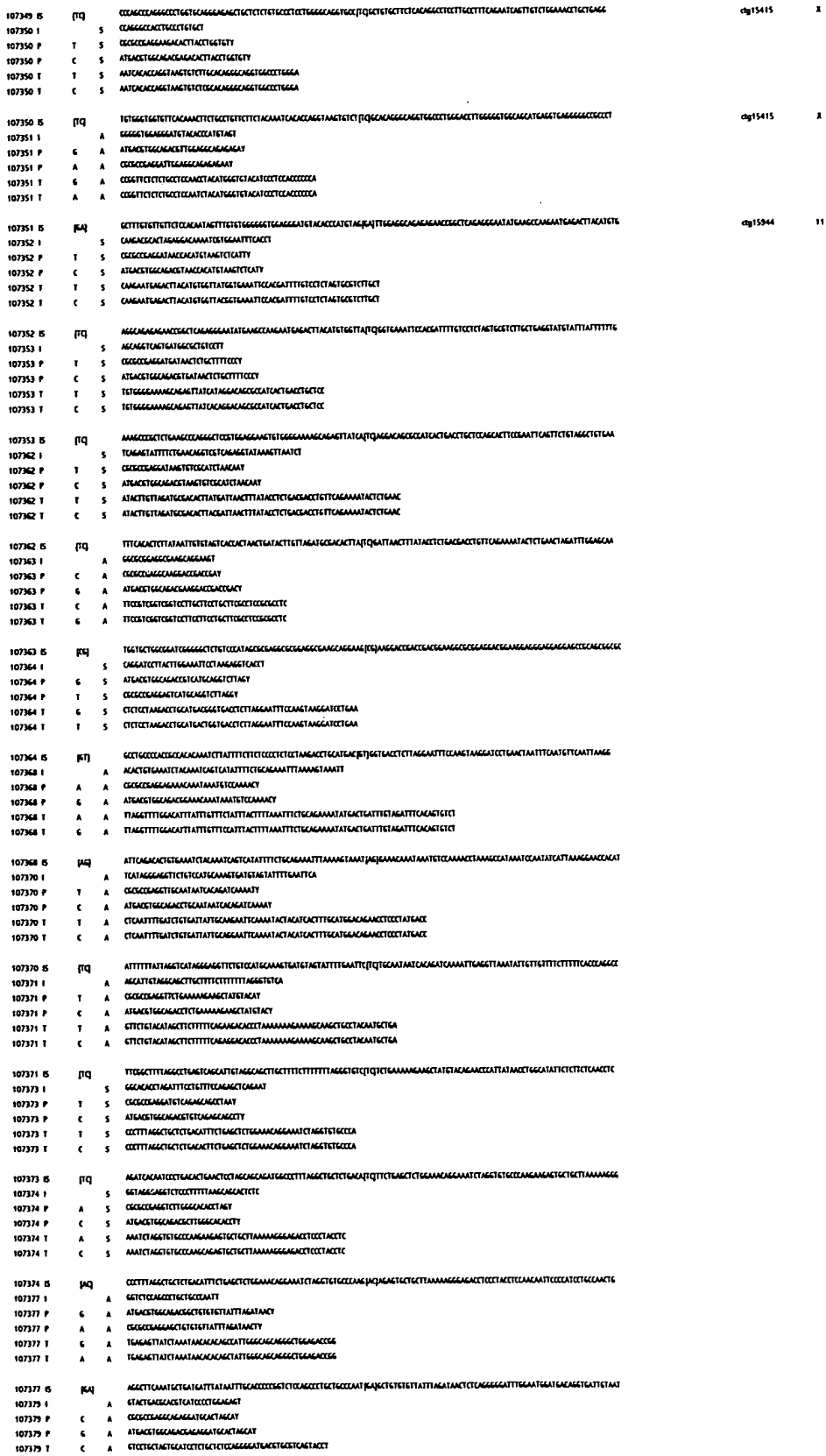
FIGURE 129G





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FIGURE 129G



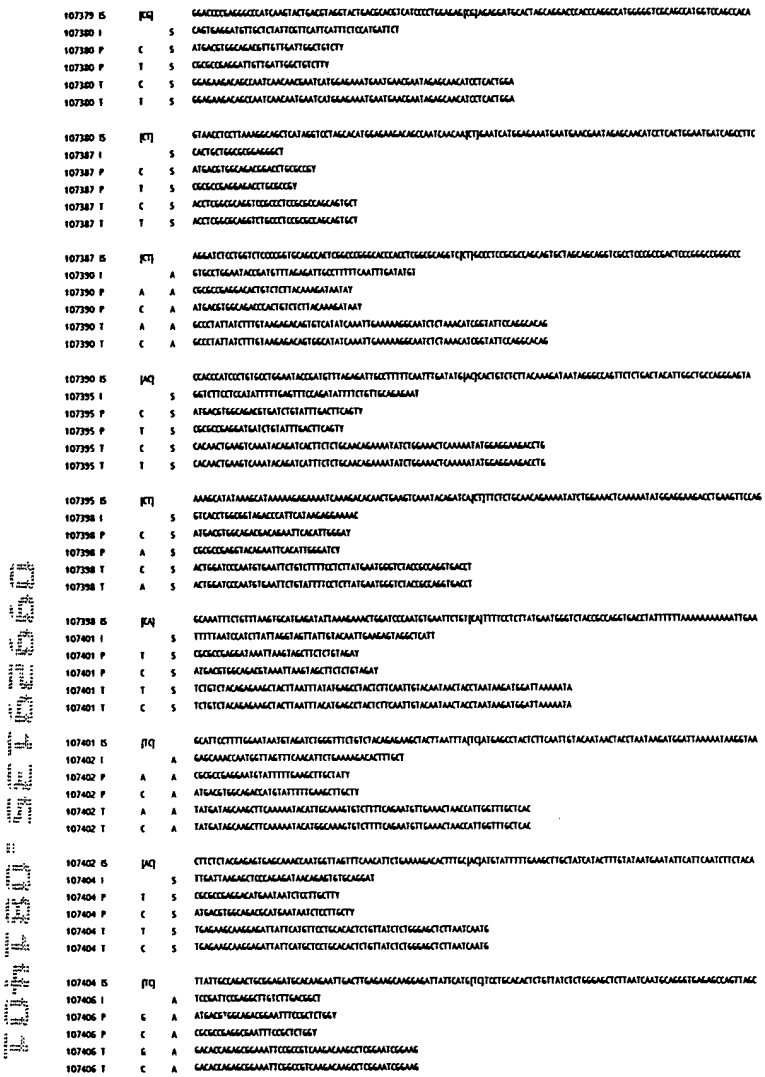
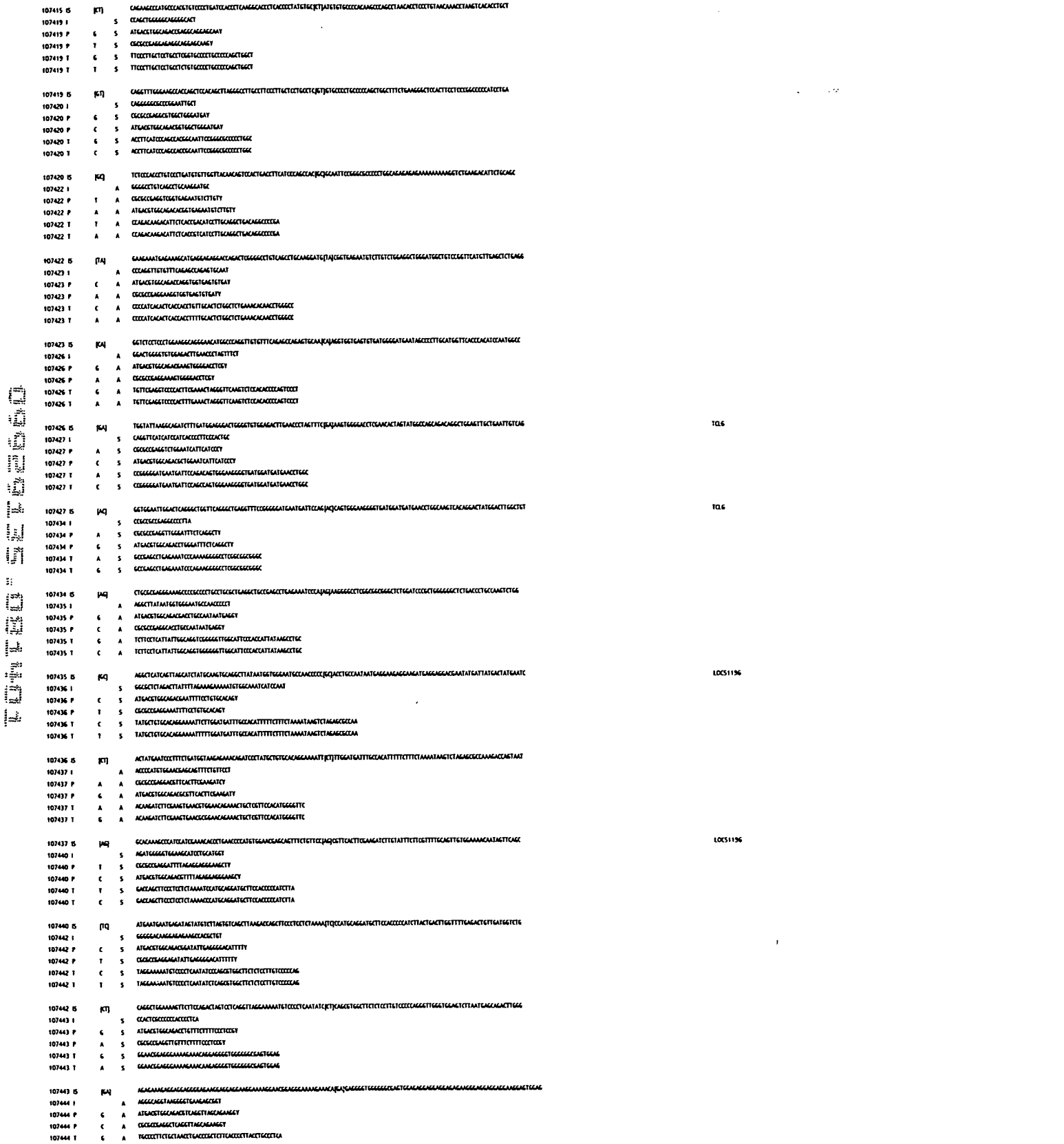


FIGURE 129G


107415 IS (CT) CAGAAGCCCATGCCCACGTGTCCCCTGATCCACCCTCAAGGCACCCTCACCCCTATGTGCJCTJATGTGTGCCCCACAAGCCCAGCCTAACACCTCCCTGTAACAAACCTAAGTCACACCTGCT
107419 I S CCACCTGGGGGCAGGGGCACT
107419 P G S ATGACGTGGCAGACCSAGGCACGAGCAAY
107419 P T S CGCGCCCAGCAGAGGCAGGAGCAAGY
107419 T G S TTCCCTTGCTCCTGCCTCGGTGCCCCTGCCCCCAGCTGGCT
107419 T T S TTCCCTTGCTCCTGCCTCTGTGCCCCTGCCCCCAGCTGGCT
107419 IS (GT) CAGGTTTGGGAAGCCACCAGCTCCACACGCTAGGGCCTTGCCTTCCCTTGCTCCTGCCTCJGTJGTGCCCCTGCCCCCAGCTGGCTTTCTGAAGGGCTCCACTTCCTCCCCGCCCCCATCCTCA
107420 I S CAGGGGGGCCCCGGAATTGCT
107420 P G S CGCCCCAGGCGTGGCTGGGATGAY
107420 P C S ATGACGTGGCAGACGGTGGCTGGGATGAY
107420 T G S ACCTTCATCCCAGCCACGGCAATTCCGGGGCGCCCCCTGGC
107420 T C S ACCTTCATCCCAGCCACGCCAATTCCGGGGCGCCCCCTGGC
107420 IS (GC) TCTCCCACCCTGTCCCTGATGTGTTGCTTACAACAGTCCACTGACCTTCATCCCAGCCACJGCJGCAATTCCGGGGCGCCCCCTGGCACACAGACAGAAAAAAAAAGGTCTGAAGACATTCTGCAGC
107422 I A GGGGCCTGTCAGCCTGCAAGGATGC
107422 P T A CGCGCCCAGGTCGGTGAGAATGTCTTGTY
107422 P A A ATGACGTGGCAGACACGGTGAGAATGTCTTGTY
107422 T T A CCACACAAGACATTCTCACCCACATCCTTGCAGGCTGACAGGCCCCCA
107422 T A A CCACACAAGACATTCTCACCGTCATCCTTGCAGGCTGACAGGCCCCCA
107422 IS (TA) GAACAAATGAGAAAGCATGAGGACAGGACACAGACTCGGGGCCTGTCAGCCTGCAAGGATG[TA]CGGTGAGAATGTCTTGTCTGCAGGCTGGGATGGCTGTCCGGTTCATCTTGAGCTCTGAGG
107423 I A CCCAGGTTGTGTGTTTCAGAGCCAGAGTGCAAT
107423 P C A ATGACGTGGCAGACAGGTGGTGAGTGTGAY
107423 P A A CGCGCCCAGGAAGGTGGTGAGTGTGATY
107423 T C A CCCCATCACACTCACCACCTTTTGCACTCTGGCTCTGAAACACAACCTGGGCC
107423 T A A CCCCATCACACTCACCACCTTTTGCACTCTGGCTCTGAAACACAACCTGGGCC
107423 IS (CA) GGTCTCCTCCCTGGAAGGCAGGGAACATGGCCCAGGTTGTGTTTCAGAGCCAGAGTGCAA[CA]AGGTGGTGAGTGTGATGGGGATGAATAGCCCCTTGCATGGTTCACCCACATCCAATGGCC
107426 I A GGACTGGGGTGTGGAGACTTGAACCCTAGTTTCT
107426 P G A ATGACGTGGCAGACAAAGTGGGGAACCTCGY
107426 P A A CGCGCCCAGCAAAGTGGGGAACCTCGY
107426 T G A TGTTCGAGGTCCCCACTTCGAAACTAGGGTTCAAGTCTCCACACCCCAGTCCCT
107426 T A A TGTTCGAGGTCCCCACTTTGAAACTAGGGTTCAAGTCTCCACACCCCAGTCCCT
107426 IS (GA) TGGTATTAAGGCAGATCTTTGATGGAGGGACTGGGGTGTGGAGACTTGAACCCTAGTTTC[GA]AAGTGGGGACCTCGAACACTAGTATGGCCAGCAGACAGCAGGCTGAAGTTGCTGAATTGTCAG TCL6
107427 I S CAGGTTCATCATCCATCACCCCTTCCCACTGC
107427 P A S CGCGCCCAGGTCTGGAATCATTCATCCCY
107427 P C S ATGACGTGGCAGACGCTGGAATCATTCATCCCY
107427 T A S CCGGGGGATGAATGATTCCAGACAGTGGGAAGGGGTGATGGATGATGAACCTGGC
107427 T C S CCGGGGGATGAATGATTCCAGCCAGTGGGAAGGGGTGATGGATGATGAACCTGGC
107427 IS (AC) GGTGGAATTGCACTCAGGGCTGGTTCAGGGCTCAGGTTTCCGGGGGGATGAATGATTCCAG[AC]CAGTGGCGAAGGGGTGATGGATGATGAACCTGGCAAGTCACAGGACTATGGACTTGGCTGT TCL6
107434 I S CCGCCGCCGAGGCCCCTTA
107434 P A S CGCGCCGAGGTTGGGATTTCTCAGGCTY
107434 P G S ATGACGTGGCAGACCTGGGATTTCTCAGGCTY
107434 T A S GCCGAGCCTGAGAAATCCCAGAAGGGGCCTCGGCGGCGGGC
107434 T G S GCCGAGCCTGAGAAATCCCAGAAGGGGCCTCGGCGGCGGGC
107434 IS (AG) CTGGCGCAGGGAAAGCCCCGCCCCTGCCTGCGCTGAGGCTGCCGAGCCTGAGAAATCCCA[AG]AAGGGGCCTCGGCGGCGGGCTCTGGATCCCGCTGGGGGGCTCTGACCCTGCCAACTCTGG
107435 I A AGGCTTATAATGGTGGGAATGCCAACCCCCT
107435 P G A ATGACGTGGCAGACGACCTGCCAATAATGAGGY
107435 P C A CGCGCCGAGGCACCTGCCAATAATGAGGY
107435 T G A TCTTCCTCATTATTGGCAGGTCGGGGGTTGGCATTCCCACCATTATAAGCCTGC
107435 T C A TCTTCCTCATTATTGGCAGGTGGGGGGTTGGCATTCCCACCATTATAAGCCTGC
107435 IS (GC) AGGCTCATCAGTTAGCATCTATGCAAGTGCAGGCTTATAATGGTGGGAATGCCAACCCCC[GC]ACCTGCCAATAATGAGGAAGAGGAAGATGAGGAGGACGAATATGATTATGACTATGAATC LOC51196
107436 I S GGCGCTCTAGACTTATTTAGAAAGAAAAATGTGGCAAATCATCCAAT
107436 P C S ATGACGTGGCAGACGAATTTTCCTGTGCACAGY
107436 P T S CGCGCCGAGGAAATTTTCCTGTGCACAGY
107436 T C S TATGCTGTGCACAGGAAAATTCTTGGATGATTTGCCACATTTTTCTTTCTAAAATAAGTCTAGAGCGCCAA
107436 T T S TATGCTGTGCACAGGAAAATTTTTGGATGATTTGCCACATTTTTCTTTCTAAAATAAGTCTAGAGCGCCAA
107436 IS (CT) ACTATGAATCCCTTTCTGATGGTAAGAGAAACAGATCCCTATGCTGTGCACAGCAAAATT[CT]TTGGATGATTTGCCACATTTTTCTTTCTAAAATAAGTCTAGAGCGCCAAAGACCAGTAAT
107437 I A ACCCCATGTGGAACGAGCAGTTTCTGTTCCT
107437 P A A CGCGCCGAGGAGCGTTCACTTCGAAGATCY
107437 P G A ATGACGTGGCAGAGCGTTCACTTCGAAGATCY
107437 T A A ACAAGATCTTCGAAGTGAACGTGGAACACAAACTGCTCGTTCCACATGGGGTTC
107437 T G A ACAAGATCTTCGAAGTGAACGCGGAACACAAACTGCTCGTTCCACATGGGGTTC
107437 IS (AG) GCACAAAGCCATCATCGAAACACCTGAACCCCATGTGGAACGACAGTTCTGTTCC[AG]CGTTCACTTCGAAGATCTTGTATTTCTTCGTTTTGCAGTTGTGGAAAACAATAGTTCAGC LOC51196
107440 I S AGATGGGGGTGGAAGCATCCTGCATGCT
107440 P T S CGCGCCGAGGATTTTACAGCAGCGAAGCTY
107440 P C S ATGACGTGGCAGACGTTTTACAGCAGCGAAGCY
107440 T T S GACCAGCTTCCCTCCTCTAAAATCCATGCAGGATGCTTCCACCCCCATCTTA
107440 T C S GACCAGCTTCCCTCCTCTAAAACCCATGCAGGATGCTTCCACCCCCATCTTA
107440 IS (TC) ATGAATGAATGAGATAGTATGTCTTAGTGTCAGCTTAAGACCAGCTTCCCTCCTCTAAAA[TC]CCCATGCAGGATGCTTCCACCCCCATCTTACTGACTTGGTTTTGAGACTGTTGATGGTCTG
107442 I S GGGGGACAAGGAGAGAAGCCACGCTGT
107442 P C S ATGACGTGGCAGACGGATATTGAGGGGACATTTTY
107442 P T S CGCGCTGAGGAGATATTGAGGGGACATTTTTY
107442 T C S TAGGAAAAATGTCCCCTCAATATCCCAGCGTGGCTTCTCTCCTTGTCCCCCAG
107442 T T S TAGGAAAAATGTCCCCTCAATATCTCAGCGTGGCTTCTCTCCTTGTCCCCCAG
107442 IS (CT) CAGGCTGGAAAAGTTCTTCCAGACTAGTCCTCAGGTTAGGAAAAAATGTCCCCTCAATATC[CT]CAGCGTGGCTTCTCTCCTTGTCCCCCAGGGTTGGGTGGAGTCTTAATGAGCAGACTTGGG
107443 I S CCACTCGCCCCCCACCCCTCA
107443 P G S ATGACGTGGCAGACCTGTTTCTTTTCCCTCCGY
107443 P A S CGCGCCGAGGTTGTTTCTTTTCCCTCCGY
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107444 I A AGGGCAGTAAGGGGTGAAGACGGT
107444 P G A ATGACGTGGCAGACGTCAGGTTAGCAGAAGGY
107444 P C A CGCGCCAGGGCTCAGGTTAGCAGAAGGT
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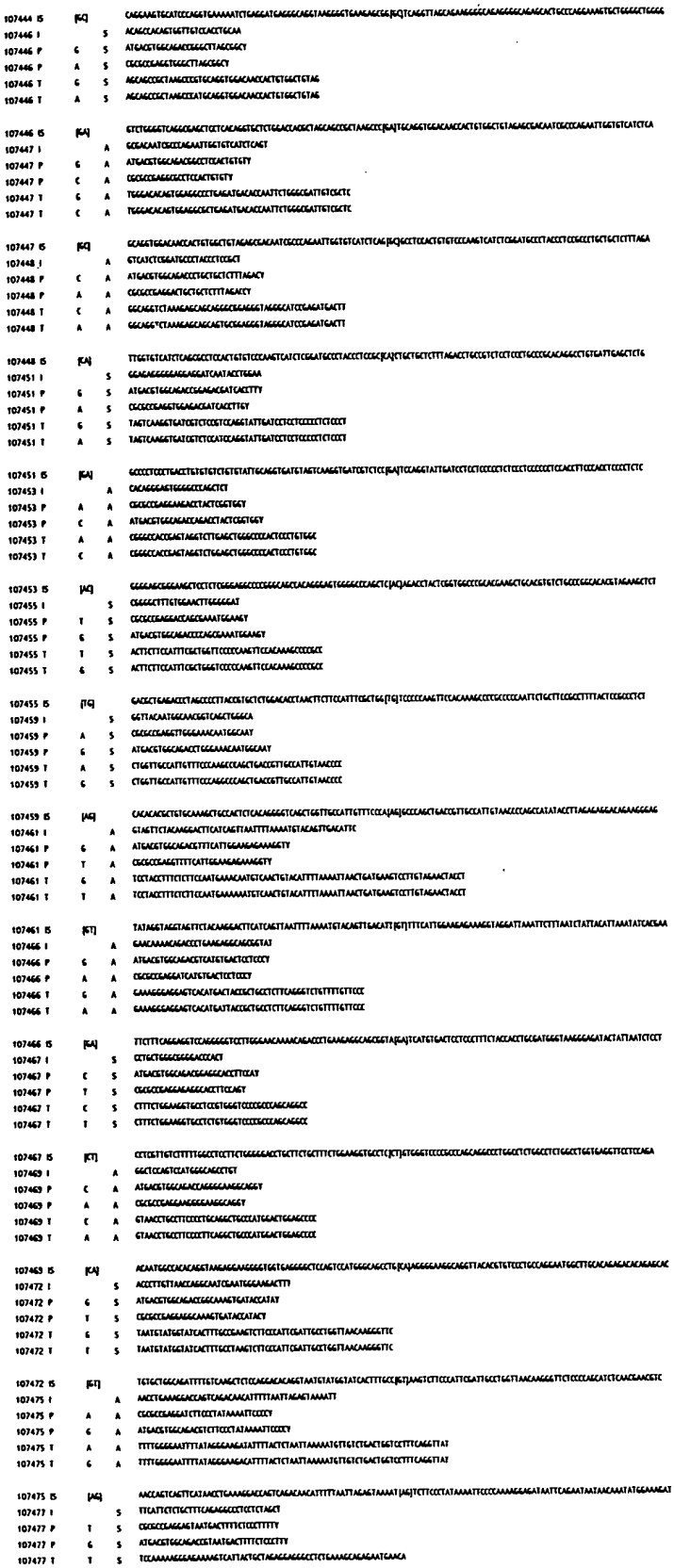


FIGURE 129G

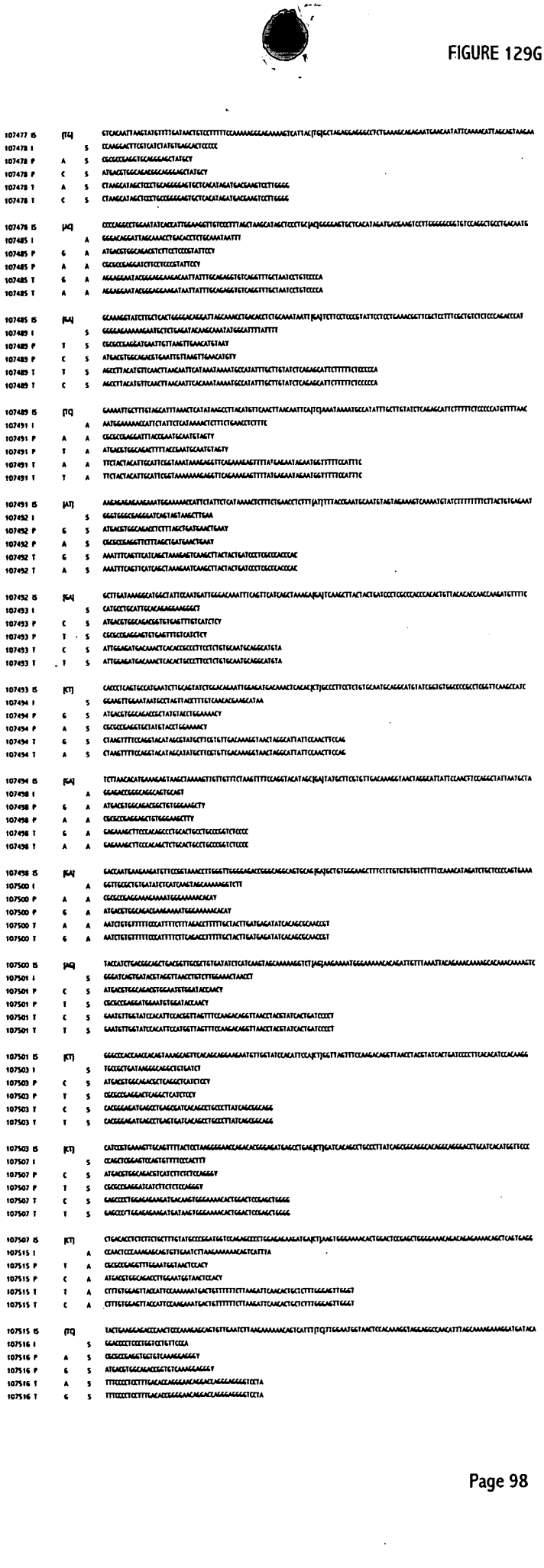


FIGURE 129G

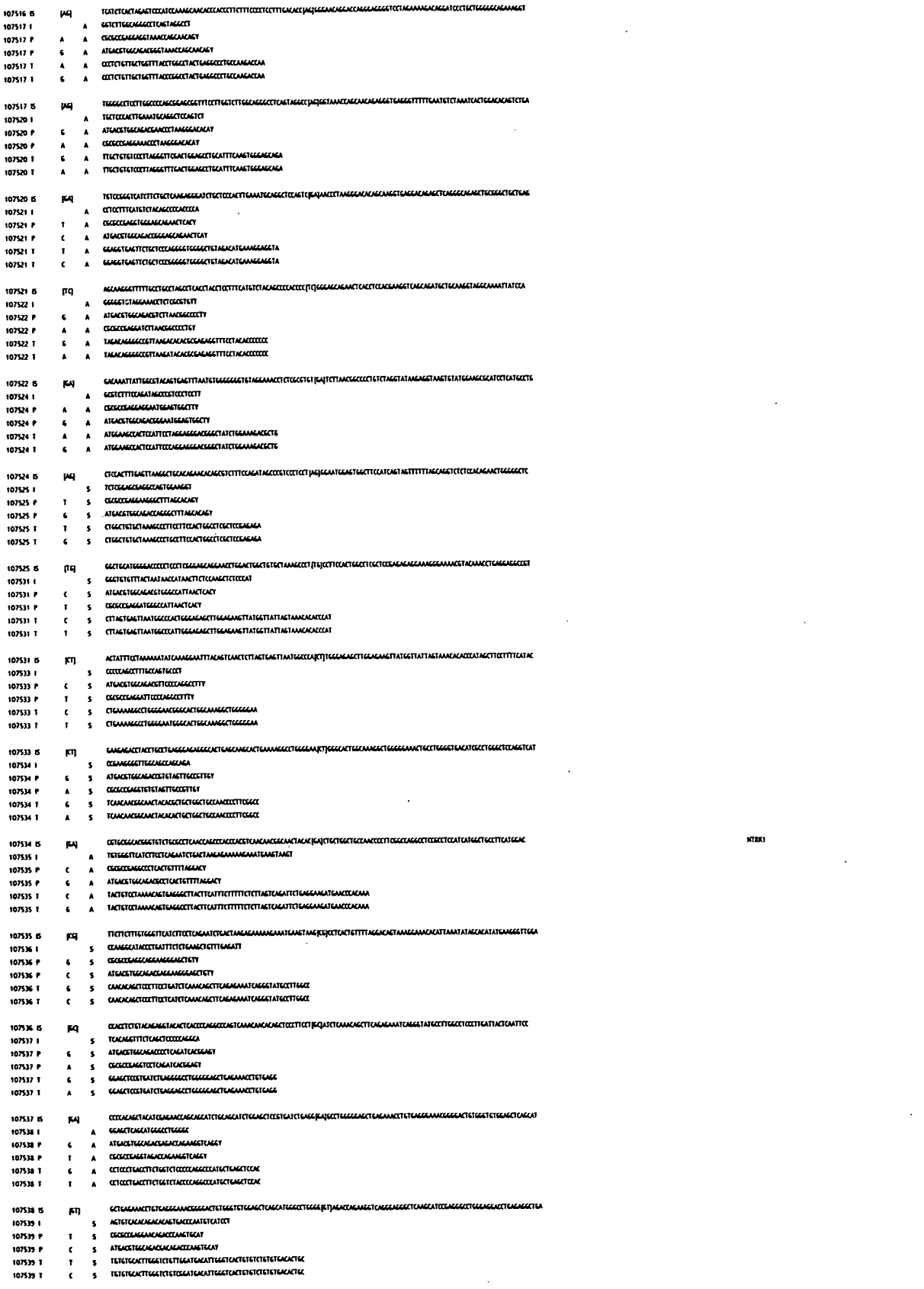
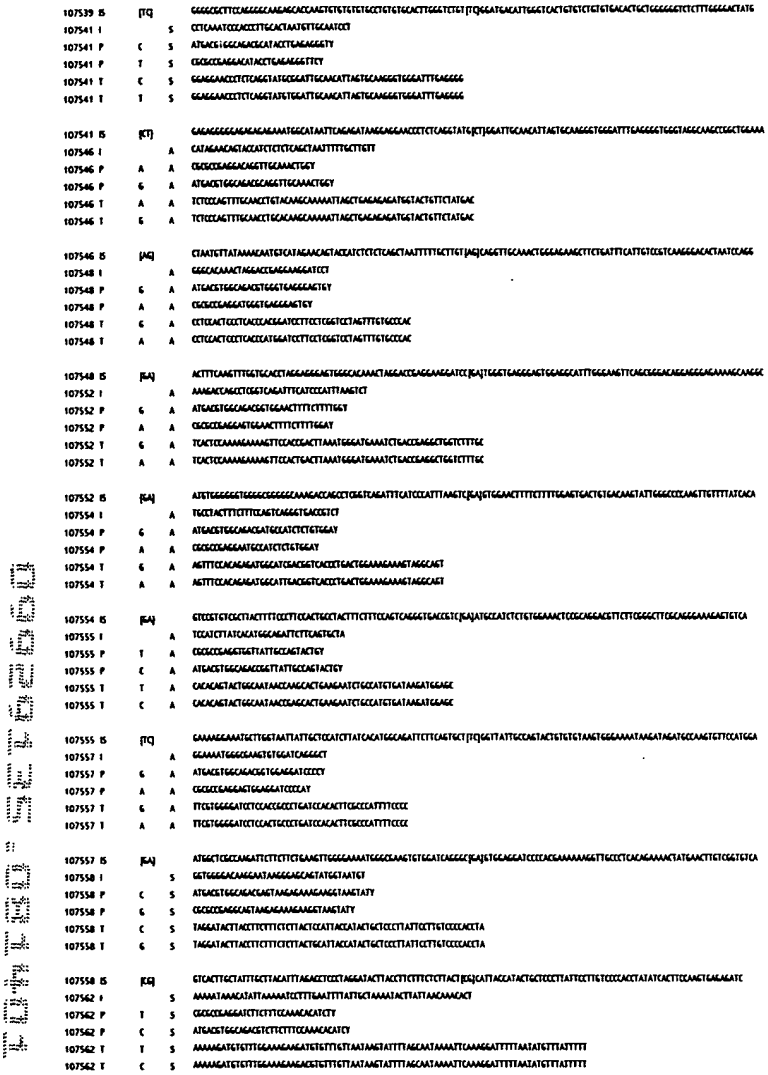
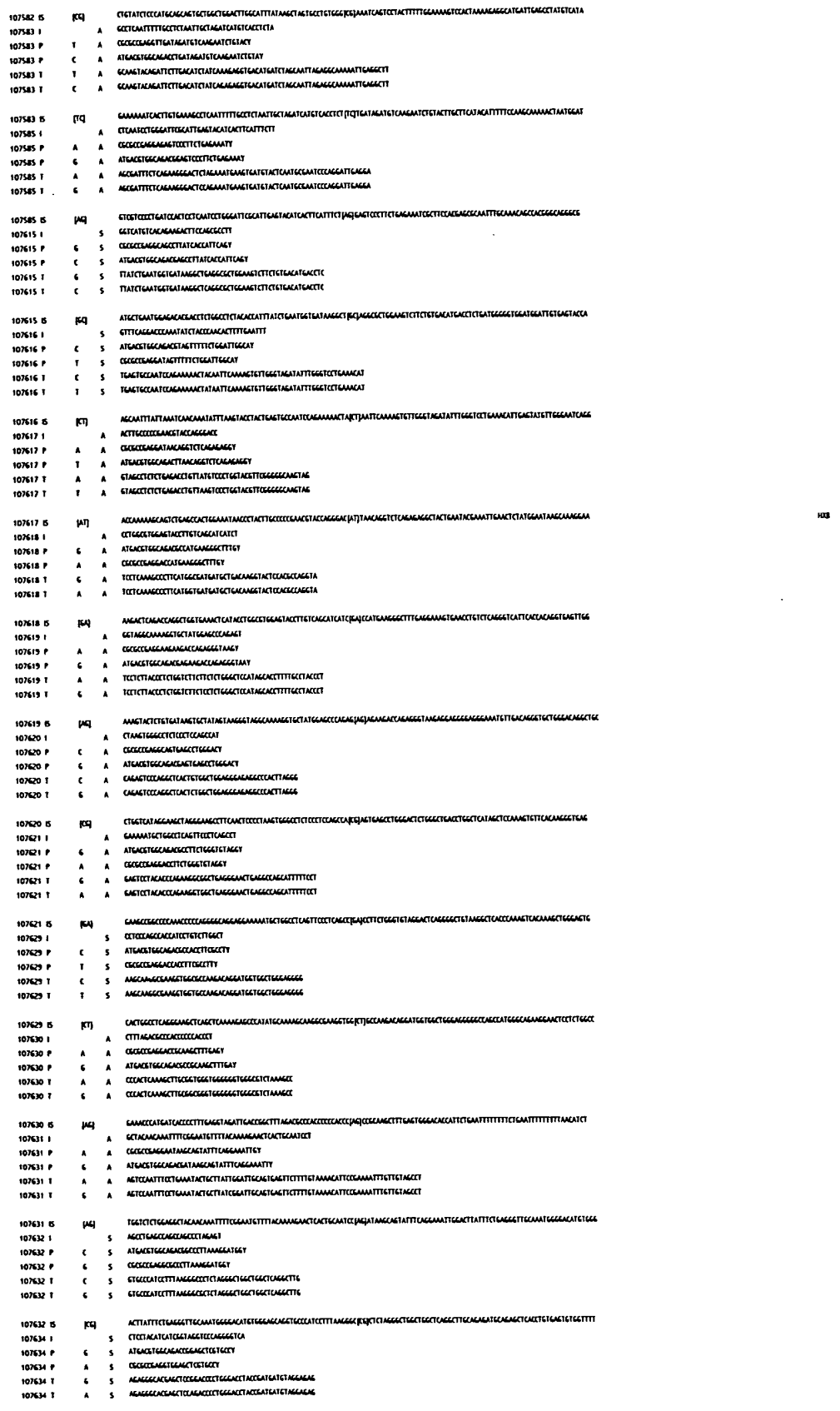


FIGURE 129G





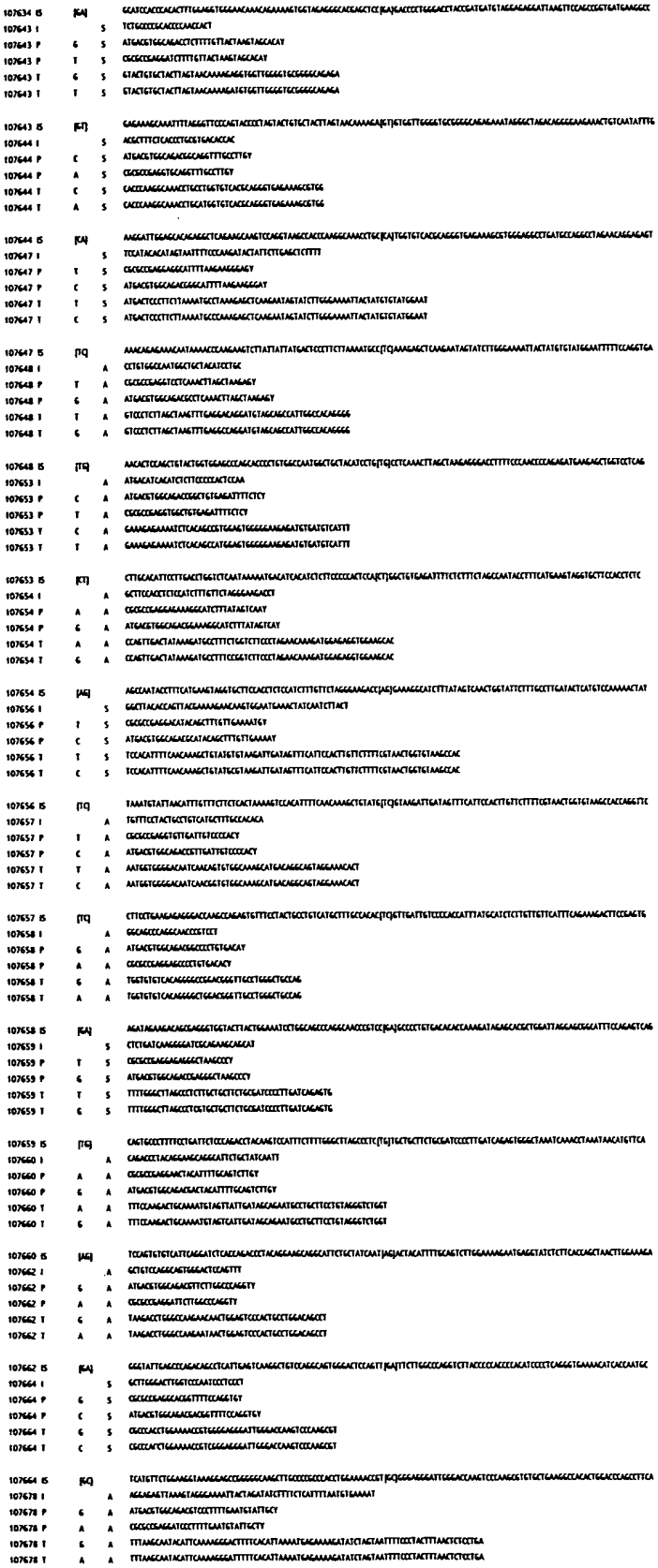


FIGURE 129G





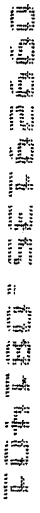
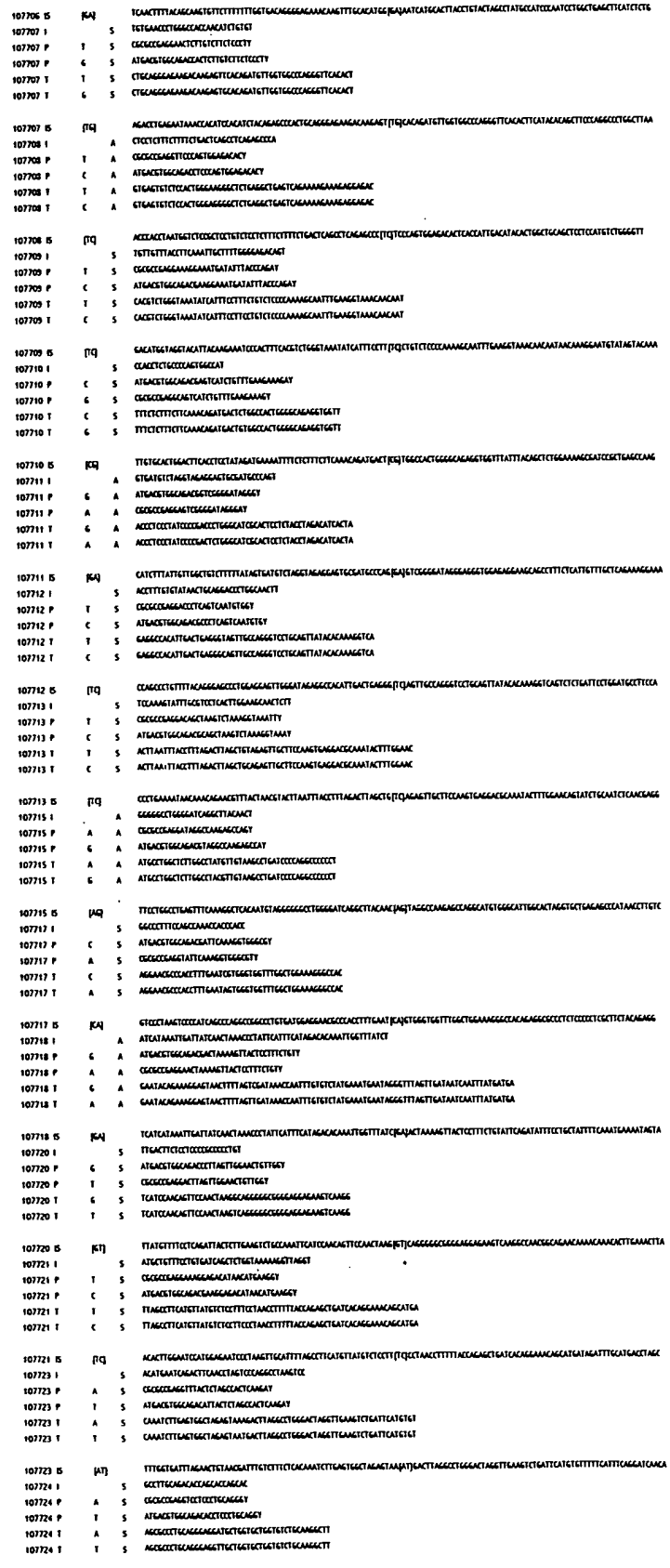
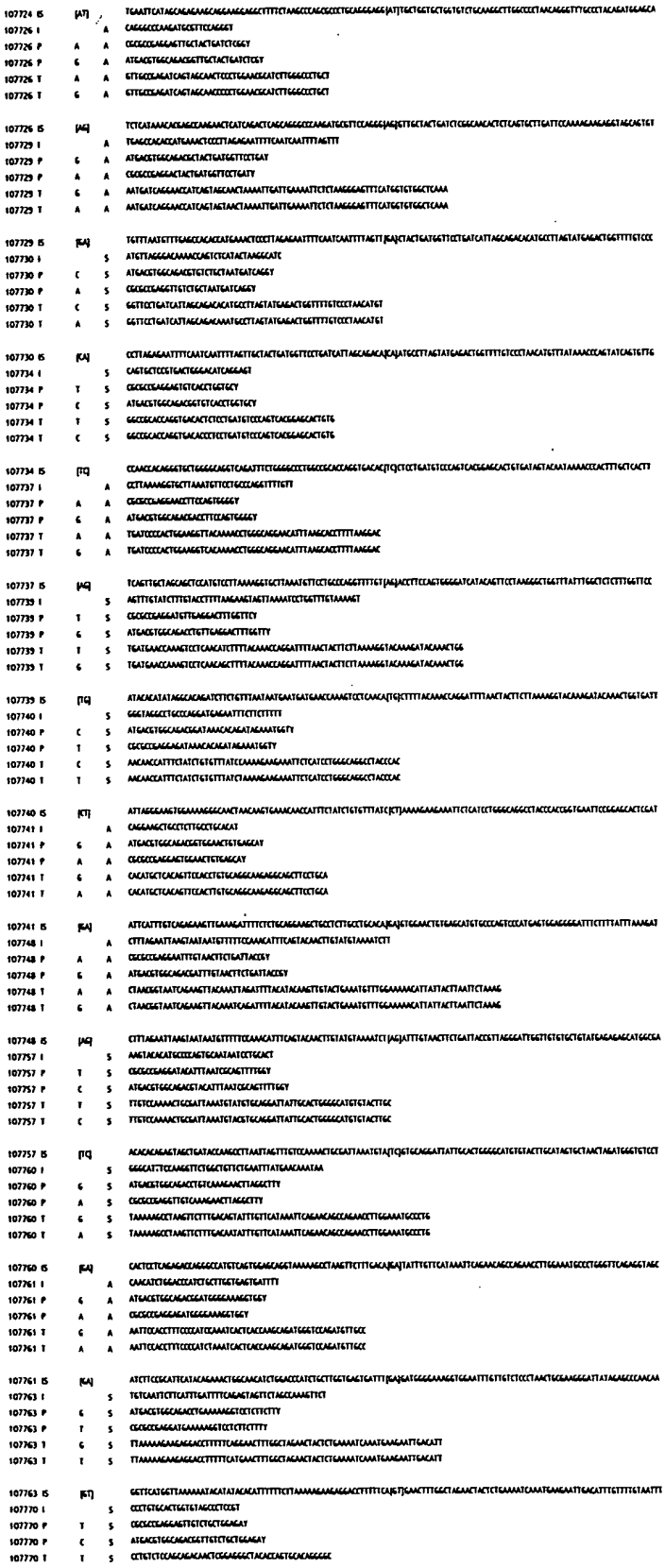


FIGURE 129G





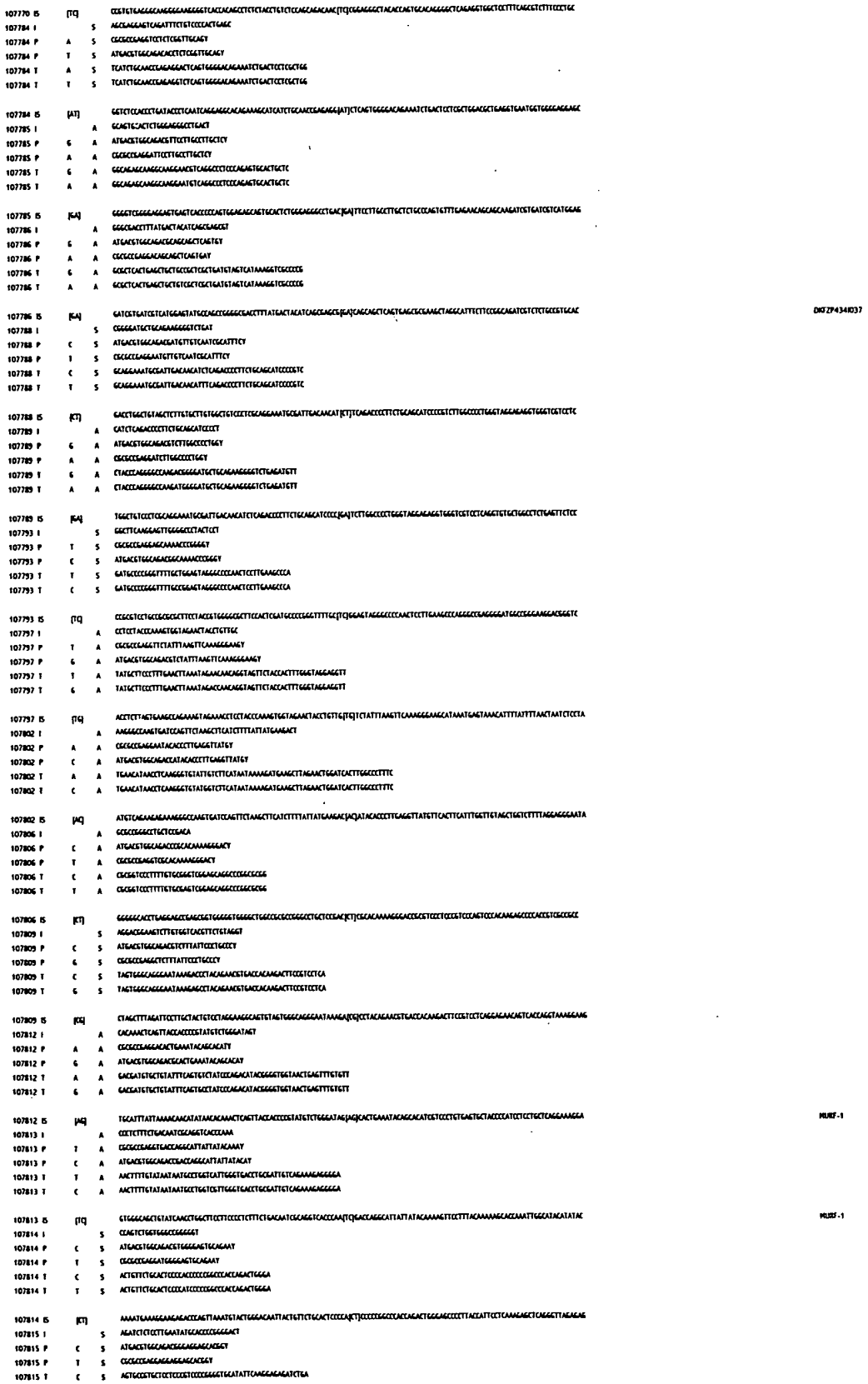


FIGURE 129G

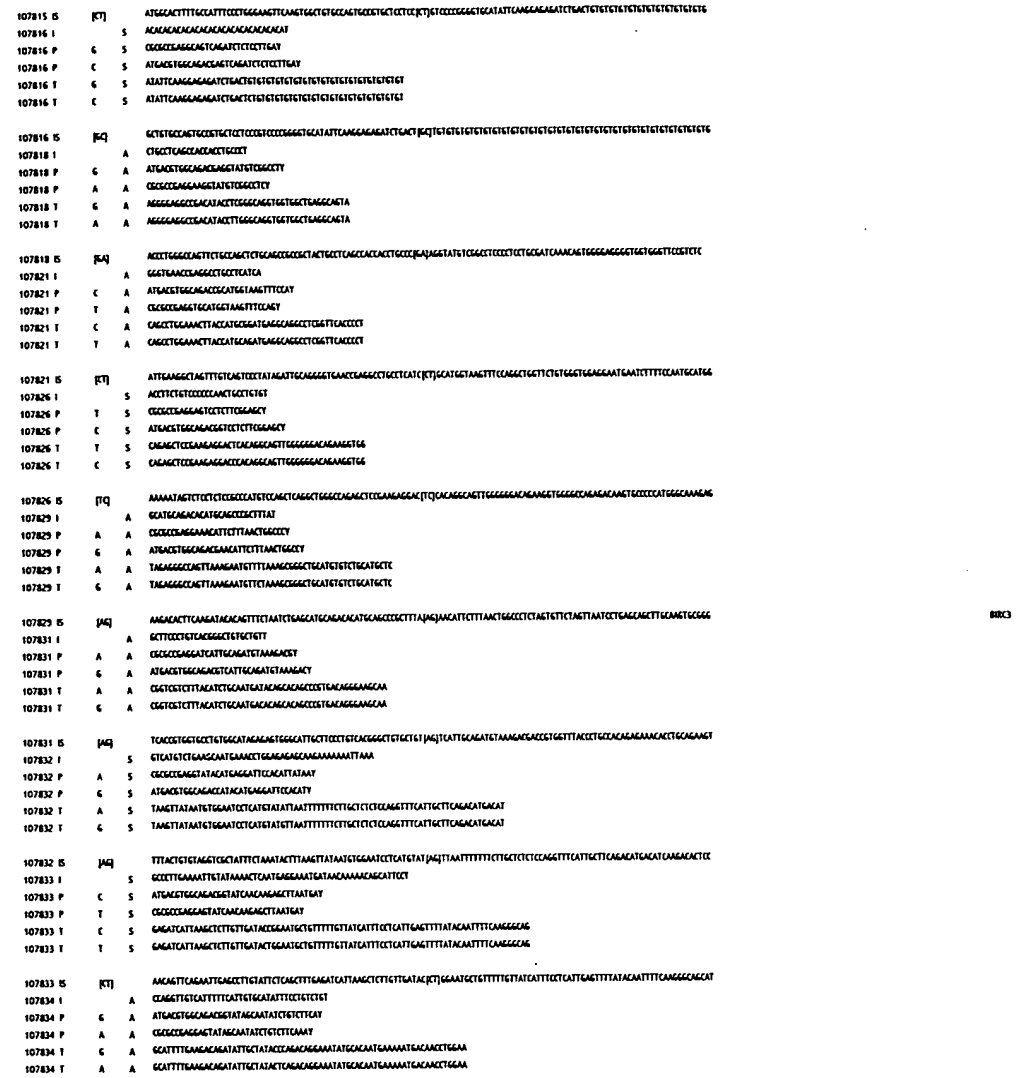


FIGURE 129G

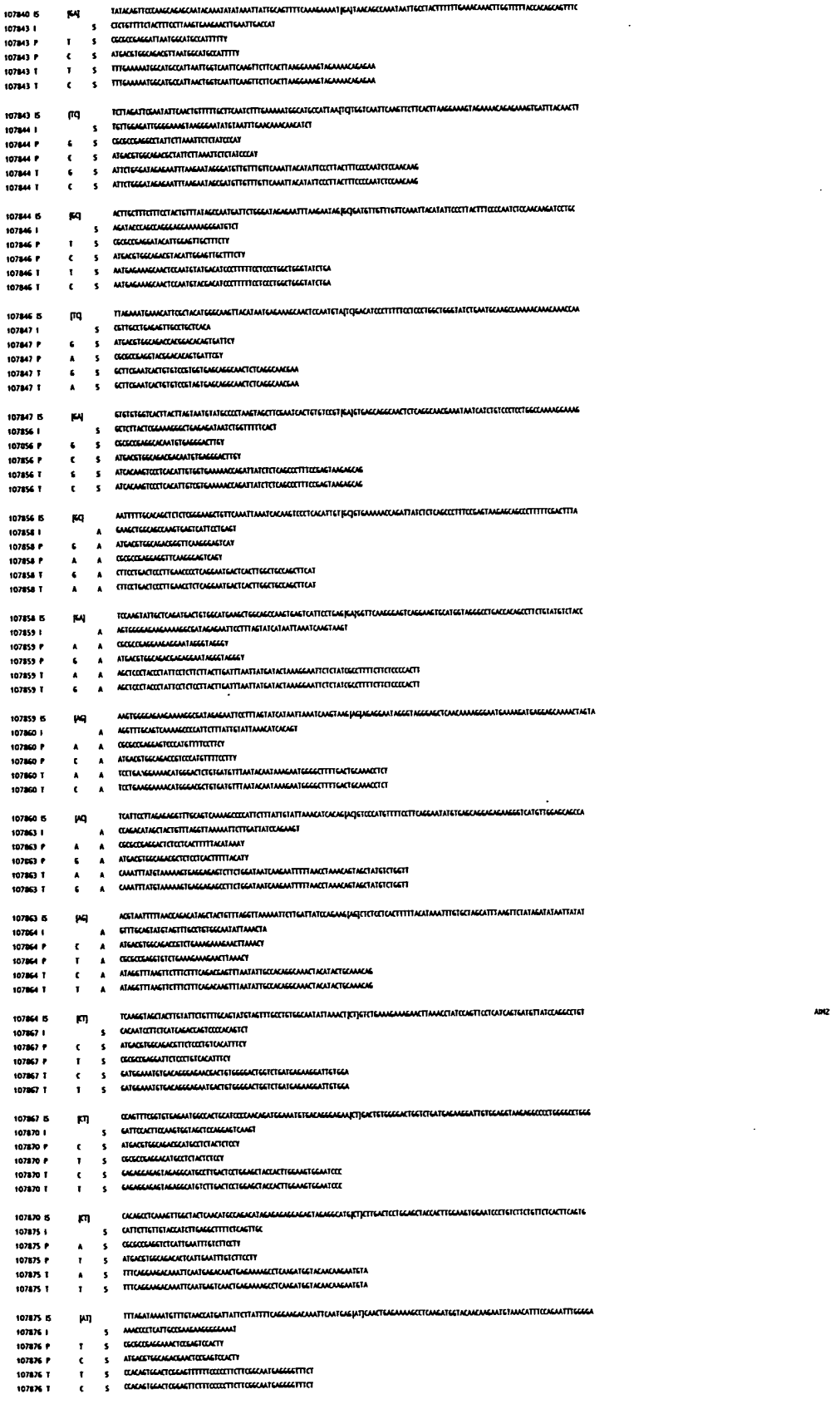


FIGURE 129G

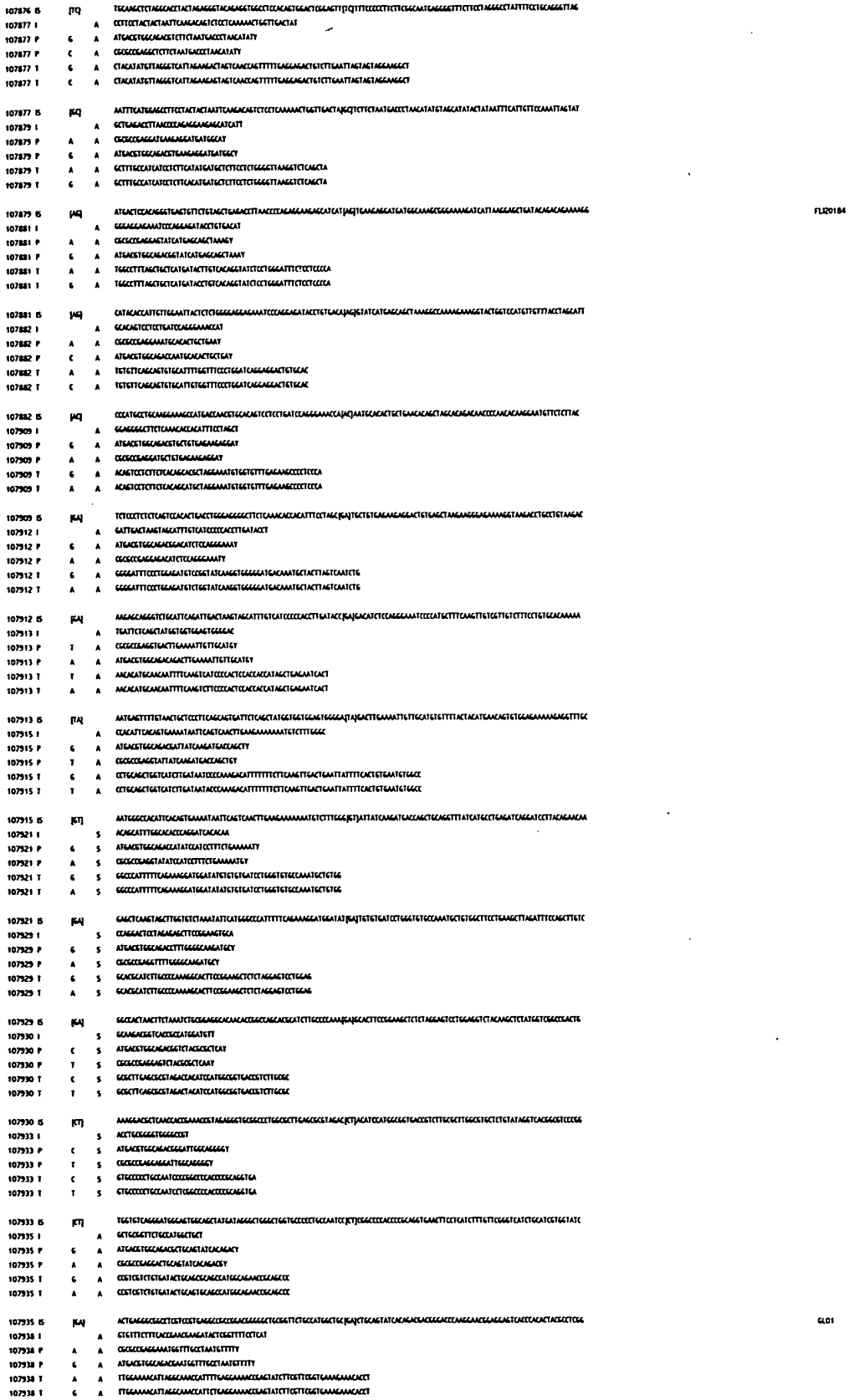


FIGURE 129G

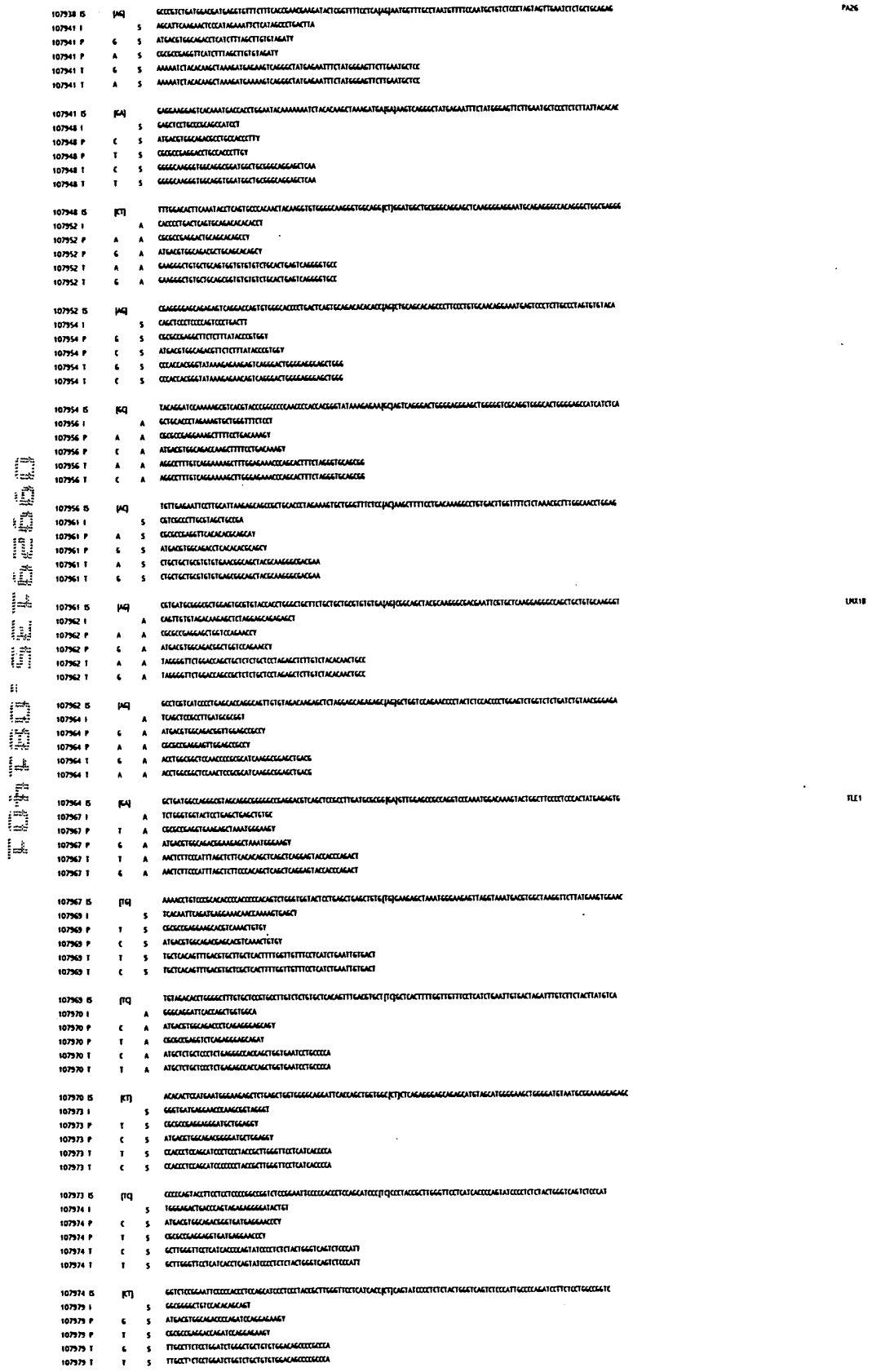
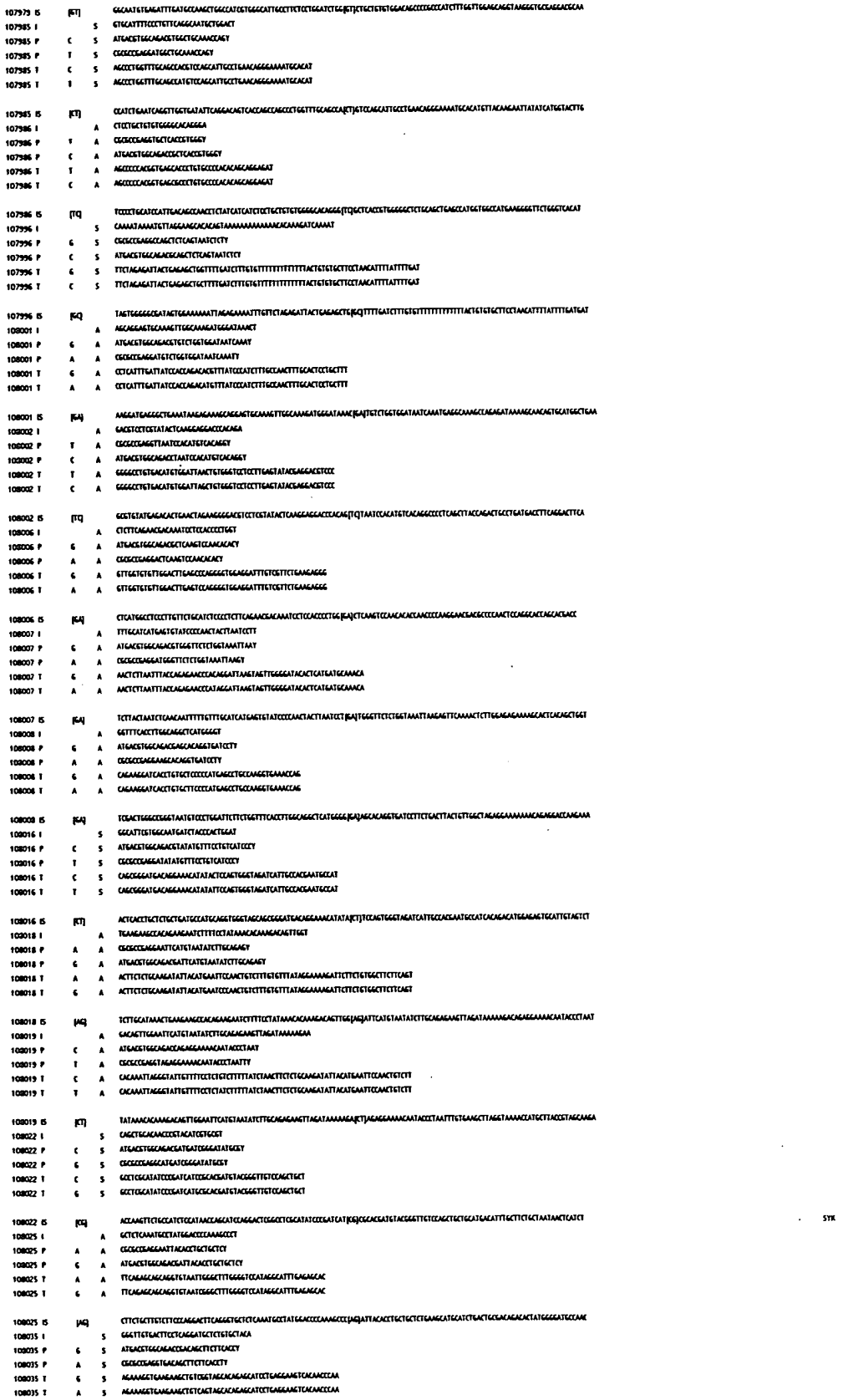
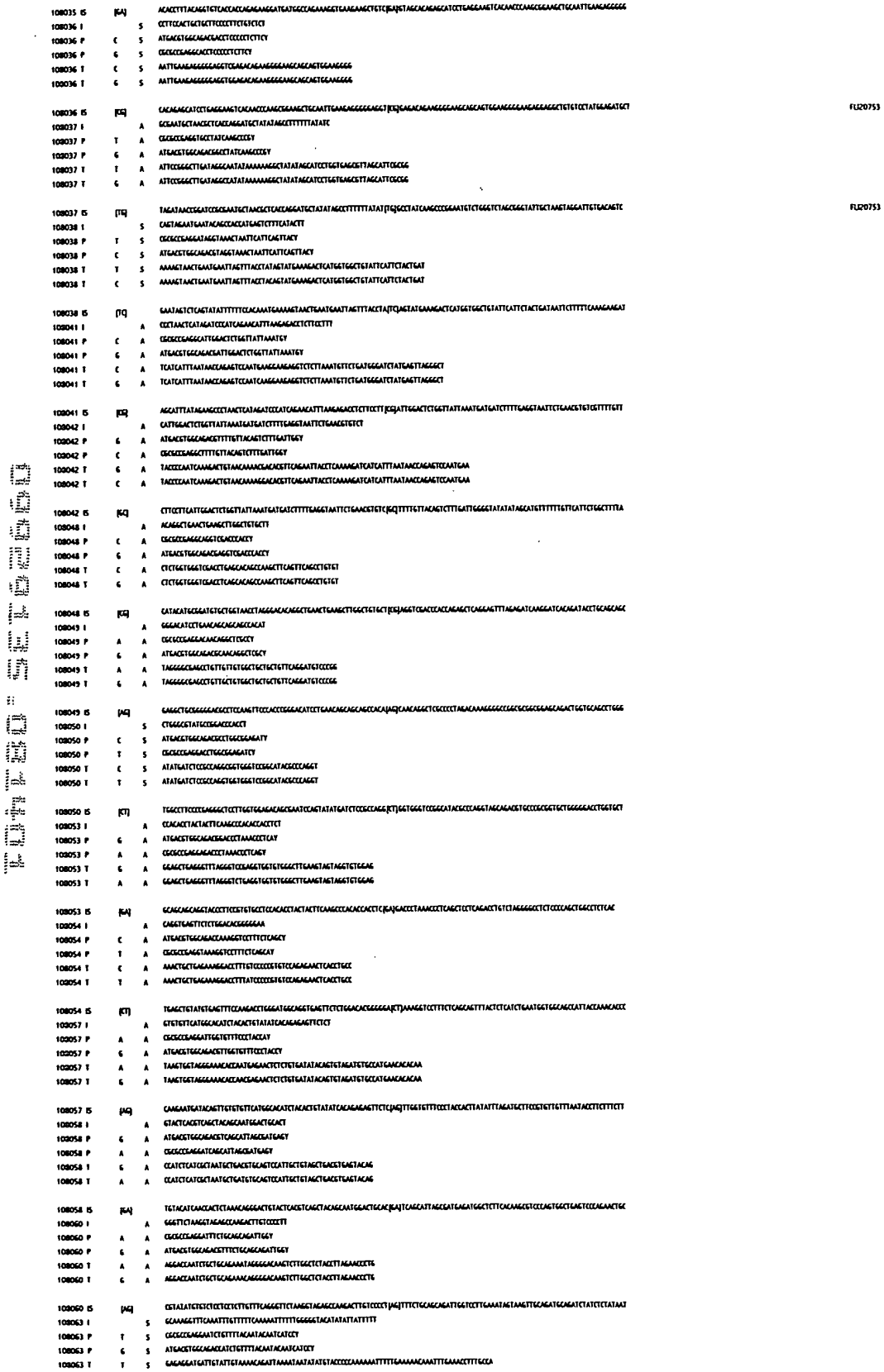
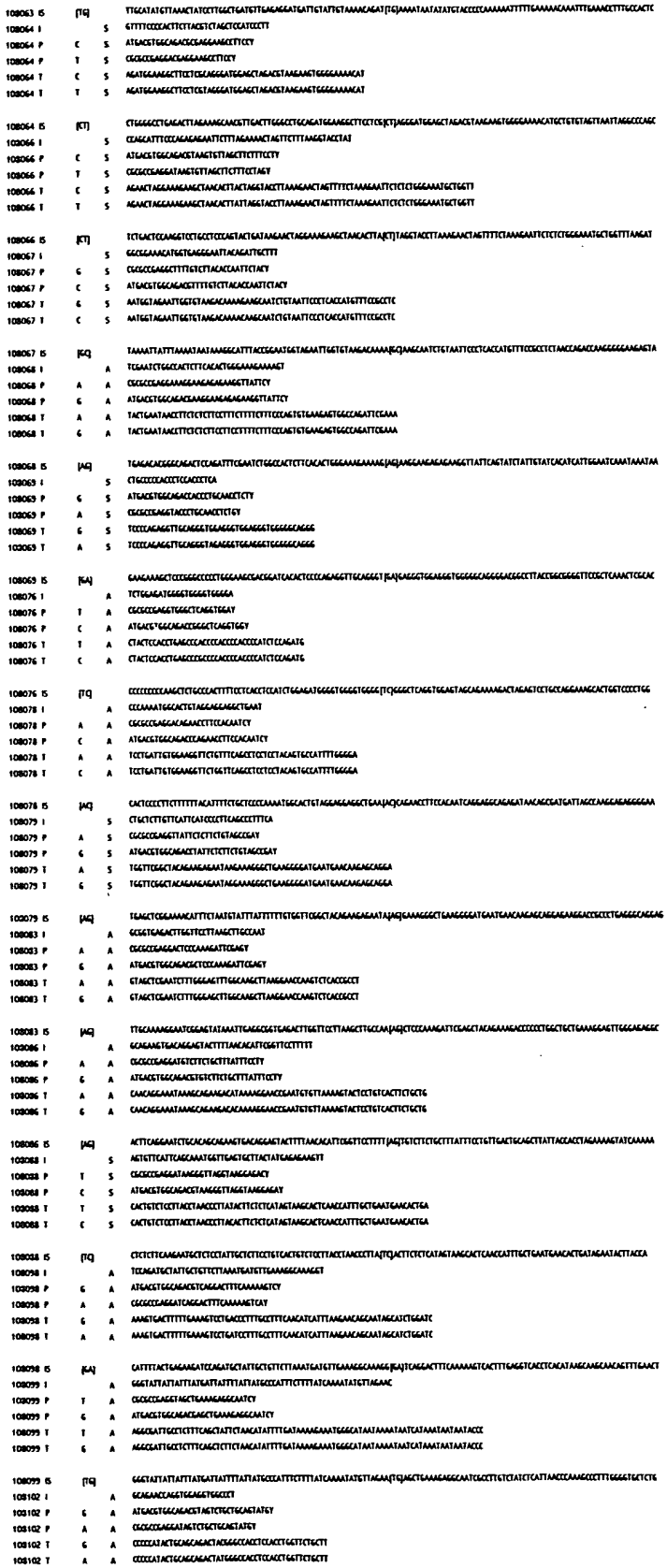


FIGURE 129G











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108105 I         S      CATCTAAAGGCAGCAGTGAAAGAAAAGAAAAGAAACAAGAAGAAAAAAACCATA
108105 P    A    S      CGCGCCGAGGTGGTTCACCAAAAAGGATTY
108105 P    G    S      ATGACGTGGCAGACCGGTTCACCAAAAAGGAT
108105 T    A    S      TCTGAATCCTTTTTGGTGAACCAATGGTTTTTTTCTTCTTGTTTCTTTTCTTTTCTTTCACTGCTGCCTTTAGATGAA
108105 T    G    S      TCTGAATCCTTTTTGGTGAACCGATGGTTTTTTTCTTCTTGTTTCTTTTCTTTTCTTTCACTGCTGCCTTTAGATGAA

108105 IS   [AG]      TTTTGCAGGACTGTTAAGCAGCTTGTTATTCAAAGGACTCTGAATCCTTTTTGGTGAACC[AG]ATGGTTTTTTTCTTCTTGTTTCTTTTCTTTCACTGCTGCCTTTAGATGAAGTAAA
108109 I         A      GGCCAGCGGGGAGGGTCACAGA
108109 P    C    A      ATGACGTGGCAGACCATGCATCTGCACCY
108109 P    T    A      CGCGCCGAGGTATGCCATCTGCACCCY
108109 T    C    A      GCAGGGGTGCAGATGCGATGCTGTGACCCTCCCCGCTGGCCTC
108109 T    T    A      GCAGGGGTGCAGATGCGATACTGTGACCCTCCCCGCTGGCCTC

108109 IS   [CT]      TGTTCATCCCGCCCTGTGAGCAAGCCCCAGGCCTGTGCAGGCCAGCGGCGAGGGTCACAG[CT]ATCGCATCTGCACCCCTCCCCTTCTCCTTCTACAAAGAGAGAAGAAAAACTGGCAGCAG
108110 I         A      ACAGTTTCCACTCAGACCTAAGACTCTCGCACTTTT
108110 P    G    A      ATGACGTGGCAGACGTTTCAGAGGCAGTGGCY
108110 P    A    A      CGCGCCGAGGATTTCAGAGGCAGTGGGY
108110 T    G    A      CATACCCACTCCCTCTGAAACAAAGTGGAGAGTCTTAGGTCTGAGTGGAAACTCTAA
108110 T    A    A      CATACCCACTCCCTCTGAAATAAAGTGGAGAGTCTTAGGTCTGAGTGGAAACTCTAA

108110 IS   [GA]      AAGTTGAACCAAGAATTAAAAGATTTAGAGTTTCCACTCAGACCTAAGACTCTCCACTTT[GA]TTTCAGAGGCAGTGGGTATGGTTATTCTGAAGAAGAAGGCGGCCTTATCCTGAATGCCC
108111 I         A      CTAGAGTCAGTGGGGATCAGGCCTTTGAGAGACTGT
108111 P    G    A      ATGACGTGGCAGACGAGCCAAAAACCCATGTY
108111 P    C    A      CGCGCCGAGGCAGCCAAAAACCCATGTY
108111 T    G    A      TAGGACATGGGTTTTTTGGCTCCAGTCTCTCAAAGGCCTGATCCCACTGACTCTAGCC
108111 T    C    A      TAGGACATGGGTTTTTGGCTGCAGTCTCTCAAAGGCCTGATCCCACTGACTCTAGCC

108111 IS   [GC]      TGGTAAACTAGTTGCCTGGAGCTTGCTAGAGTCAGTGGGATCAGGCCTTTGAGAGACTG[GC]AGCCAAAAACCCATGTCCTATCAGGTCCACCAATCAGCCACGCAGGCTCTTCTGCTCCC
108112 I         A      CCATATTATTAAAAGTATAAAGAGGTATGGATATCAGACAATGAAACAACATATTTTTACT
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108112 P    G    A      ATGACGTGGCAGACGTAAGTACTCCTAACCCCTY
108112 T    A    A      TGCAGAGGGGTTAGGAGTACTTATGTAAAAATATGTGTTTCATTGTCTGATATCCATACCTCTTTATACTTTTAATAATATGG
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108115 I         S      CCCCAGAGAAGGTGCAGGCAGGCT
108115 P    C    S      ATGACGTGGCAGACGCGTGAGGAACACY
108115 P    T    S      CGCGCCGAGGACCGTGAGGAACACGY
108115 T    C    S      GCTGCGTGTTCCTCACGGCGCTGCCTGCACCTTCTCTGGGGGC
108115 T    T    S      GCTGCGTGTTCCTCACGGTGCCTGCTGCACCTTCTCTGGGGGC

108115 IS   [CT]      GTGGGGAGGCGCTGTGCAGCCGCCACTTACCTCCCAGAGATGCTGCGTGTTCCTCACGG[CT]GCCTGCCTGCACCTTCTCTGGGGGCAGAAGCACGCCTTGGAAAGTCCAATCCAGGTGCC
108117 I         A      CCCAGCCGACCGCCCCT
108117 P    C    A      CGCGCCGAGGCCACCCGACCCTCY
108117 P    G    A      ATGACGTGGCAGACGCACCCGACCCTCY
108117 T    C    A      TGCAGAGGCTCGGGTGGGGGGCGCCCGGCTGGGGA
108117 T    G    A      TGCAGAGGCTCGGGTGCGGGGCGCCCGGCTGGGGA

108117 IS   [CG]      AGCGCCAAGCACAAAGGAATGGCACTGGATTCCCCTCACCTTCCCCAGCCGGCCGCCCC[CG]CACCCGACCCTCTGCAGACAGAATCTGGTCCCAGAGTACCTTGCAGCTCCTTCCATGGC
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108119 P    G    A      ATGACGTGGCAGACGTGTTTCACTTGGCCATY
108119 P    A    A      CGCGCCGAGGATGTTTCACTTGGCCATAAY
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108119 IS   [GA]      GCATGGGTGTCTTCTAAATCCCACACAACAACCTTCTCCTCTCTCCCCCTGGTGCTCCCCT[GA]TGTTTCACTTGGCCATAACCAGGCCTGCTTCCCCAGGAGGAAAAAACAAGGCAGGGAATA
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108122 P    C    A      CGCGCCGAGGCAGTGCTGGCTTCAGY
108122 P    G    A      ATGACGTGGCAGACGAGTGCTGGCTTCAGY
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108125 P    A    A      CGCGCCGAGGACGAGGCTCCTTCATAAY
108125 P    C    A      ATGACGTGGCAGACCCGAGGCTCCTTCATAY
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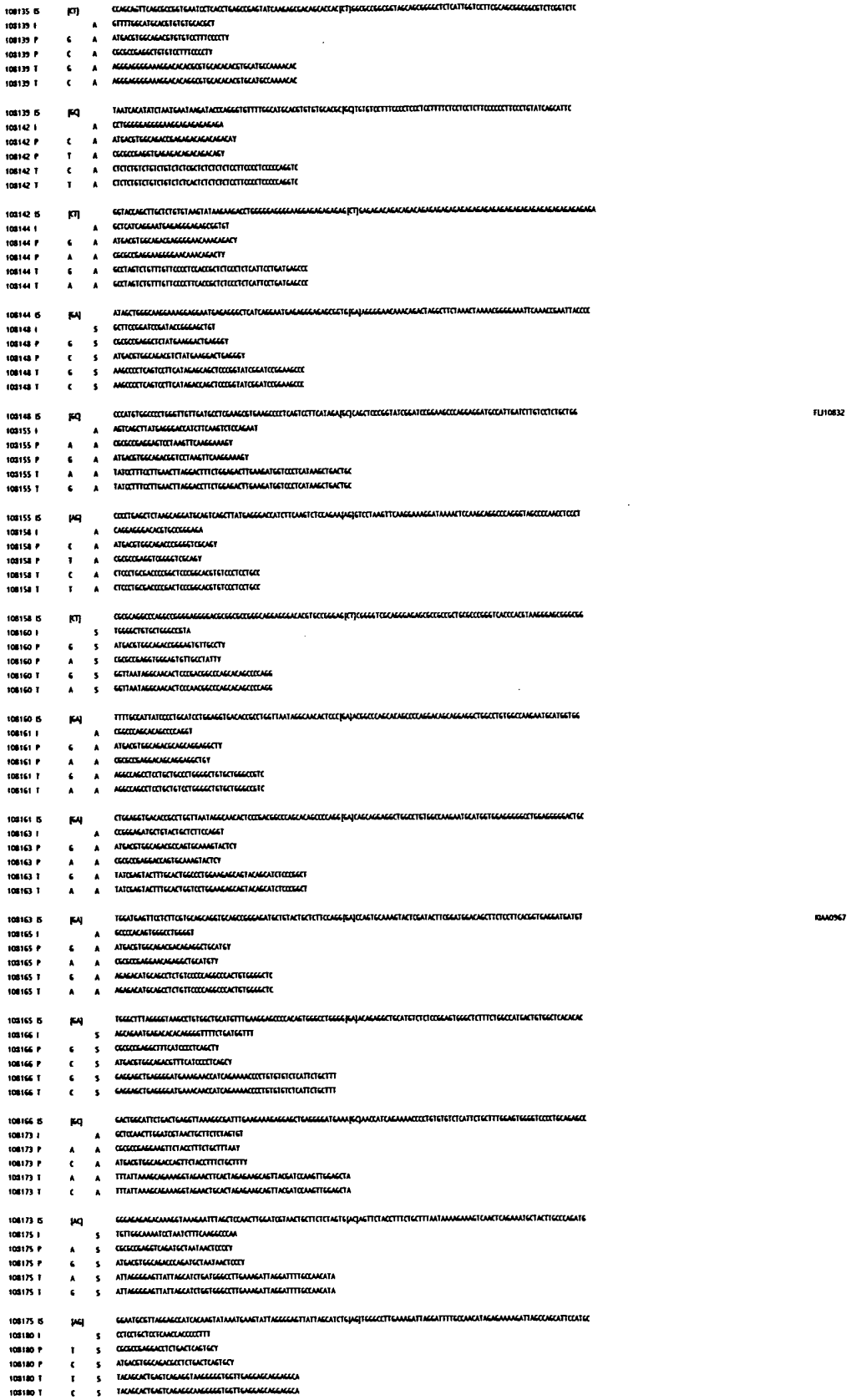
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108129 P    G    A      ATGACGTGGCAGACGGGTGCTGGTCGAGT
108129 P    A    A      CGCGCCGAGGAGGTGCTGGTCGAGY
108129 T    G    A      CTCCCTCGACAGCACCCGCAGGGAGCATGCAGTCTCTCACCGTCT
108129 T    A    A      CTCCCTCGACAGCACCTGCAGGGAGCATGCAGTCTCTCACCGTCT

108129 IS   [GA]      GATCTTGCTGTCTCTCCATGCCATCCGCTTCCAGCAGCGTGAGAGACTGCATGCTCCCTGC[GA]GGTGCTGGTCGAGCGAGGTGCCGGCCTCTTGGTGACACTCAGCTCTGCCAGGTGTTGGGT
108131 I         S      GCGCCGGGCTGCAGTGTAGAAGCT
108131 P    C    S      ATGACGTGGCAGACGGGTGCTAGAAGCATTY
108131 P    T    S      CGCGCCGAGGAGGTGGTAGCAGCATTGY
108131 T    C    S      CGAGCAATGCTCCTACCACCCGCTCTACACTTGCAGCCCGGCGCTG
108131 T    T    S      CGAGCAATGCTCCTACCACCTGCTTCTACACTTGCAGCCCGGCGCTG

108131 IS   [CT]      GGTGGAGCGGGCCCATGGGTCCAGCTTGTCTTGAGCAGCCCCAGCAATGCTCCTACCACC[CT]GCTTCTACACTTGCAGCCCGGCGCTGACCATTACCAAACTCCCGCGCTGGAGGTCTCTCA
108133 I         A      GGGCCTTTCAGGATTCAGAAGAAATTTAGAGCAAGCAGAT
108133 P    G    A      ATGACGTGGCAGACGTTCAGGTGACTCACAGAY
108133 P    A    A      CGCGCCGAGGATTCAGGTGACTCACAGAY
108133 T    G    A      AGTTTCTGTGAGTCACCTGAACTCTGCTTGCTCTAAATTTCTTCTGAATCCTGAAAGGCCCCA
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108133 IS   [GA]      TGTATTCACCAATCAAATTTGGGGCCTTTCAGGATTCAGAAGAAATTTAGAGCAAGCAGA[GA]TTCAGGTGACTCACAGAAACTTAACATTTCTCAACTATACATTATCTATCAACACCTGAA
108135 I         S      GCTGCTACCGCTGGCGCCT
108135 P    C    S      ATGACGTGGCAGACGGTGGTGCTGTCGCT
108135 P    T    S      CGCGCCGAGGAGTGGTGCTGTCGCT
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FIGURE 129G



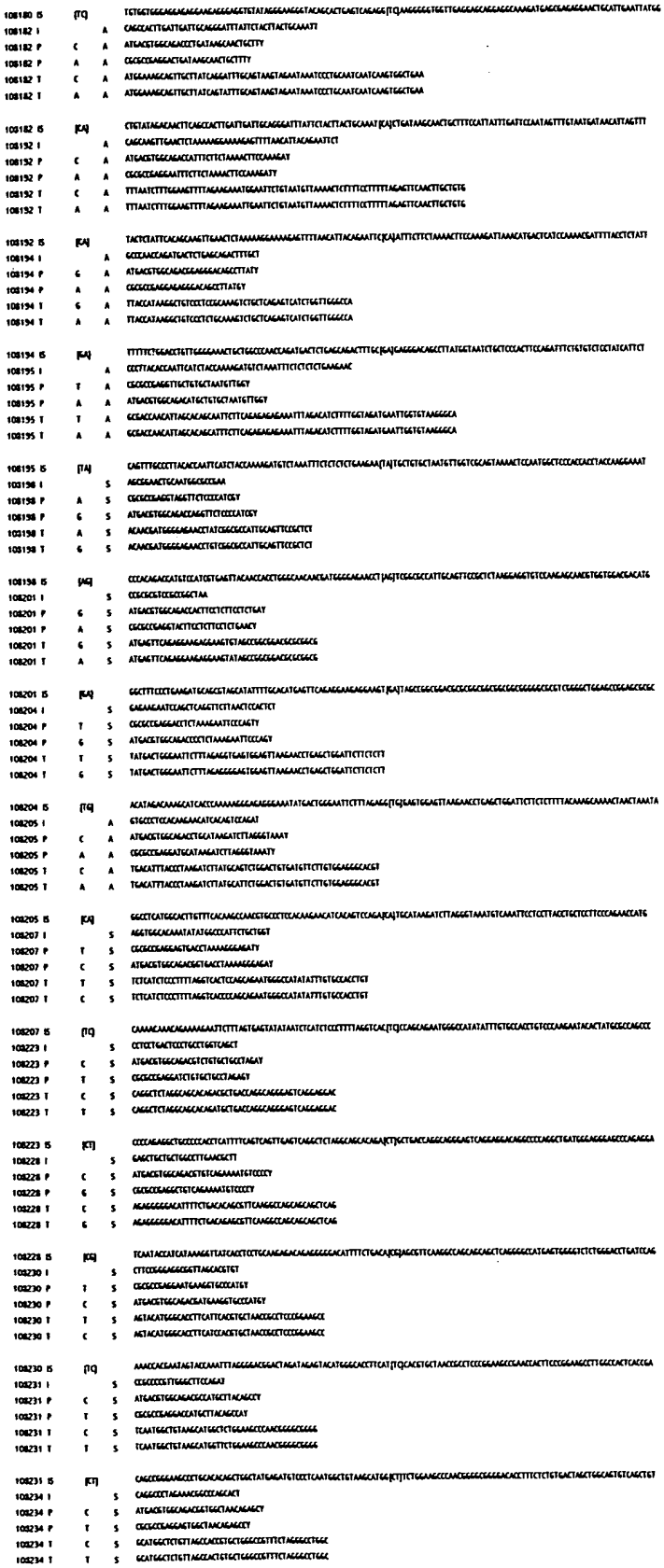
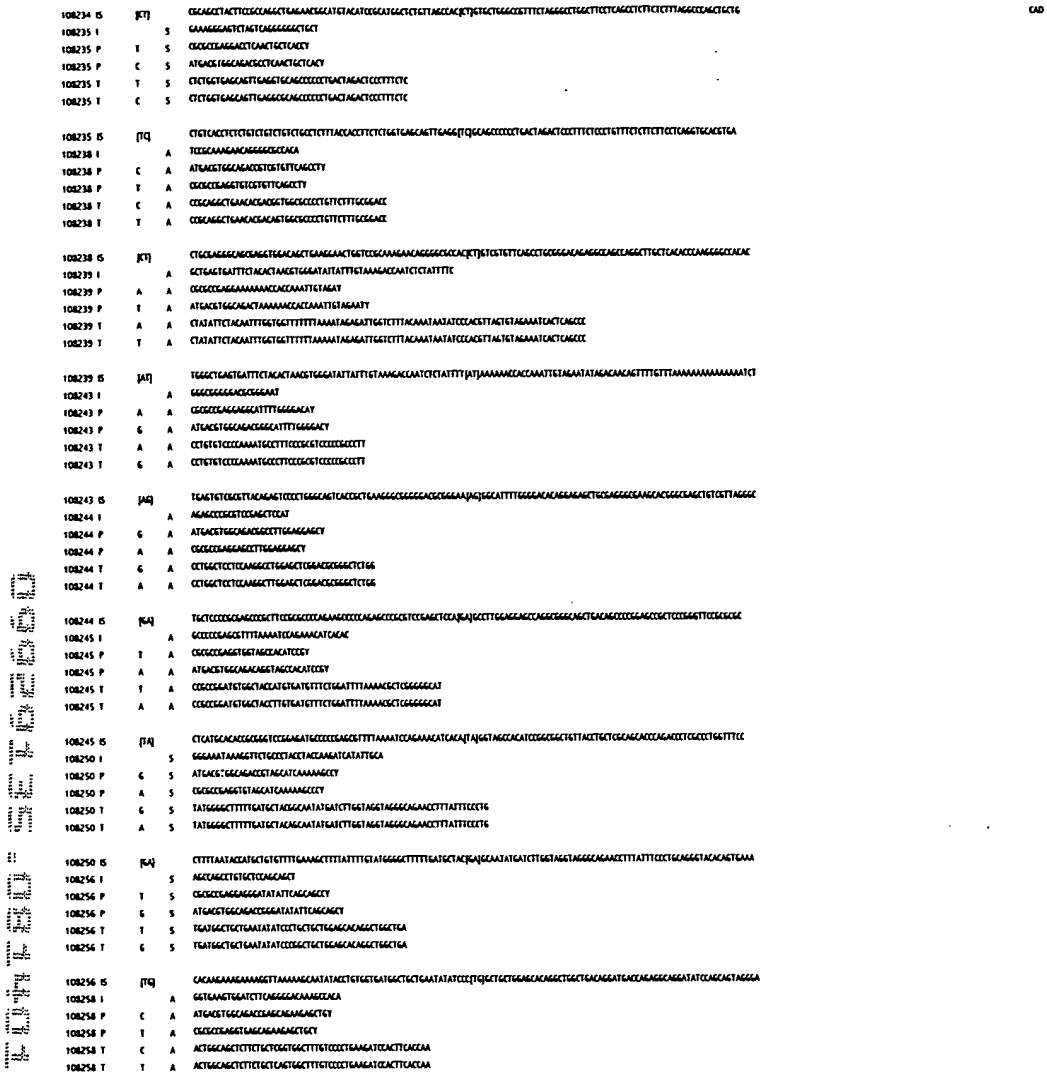


FIGURE 129G



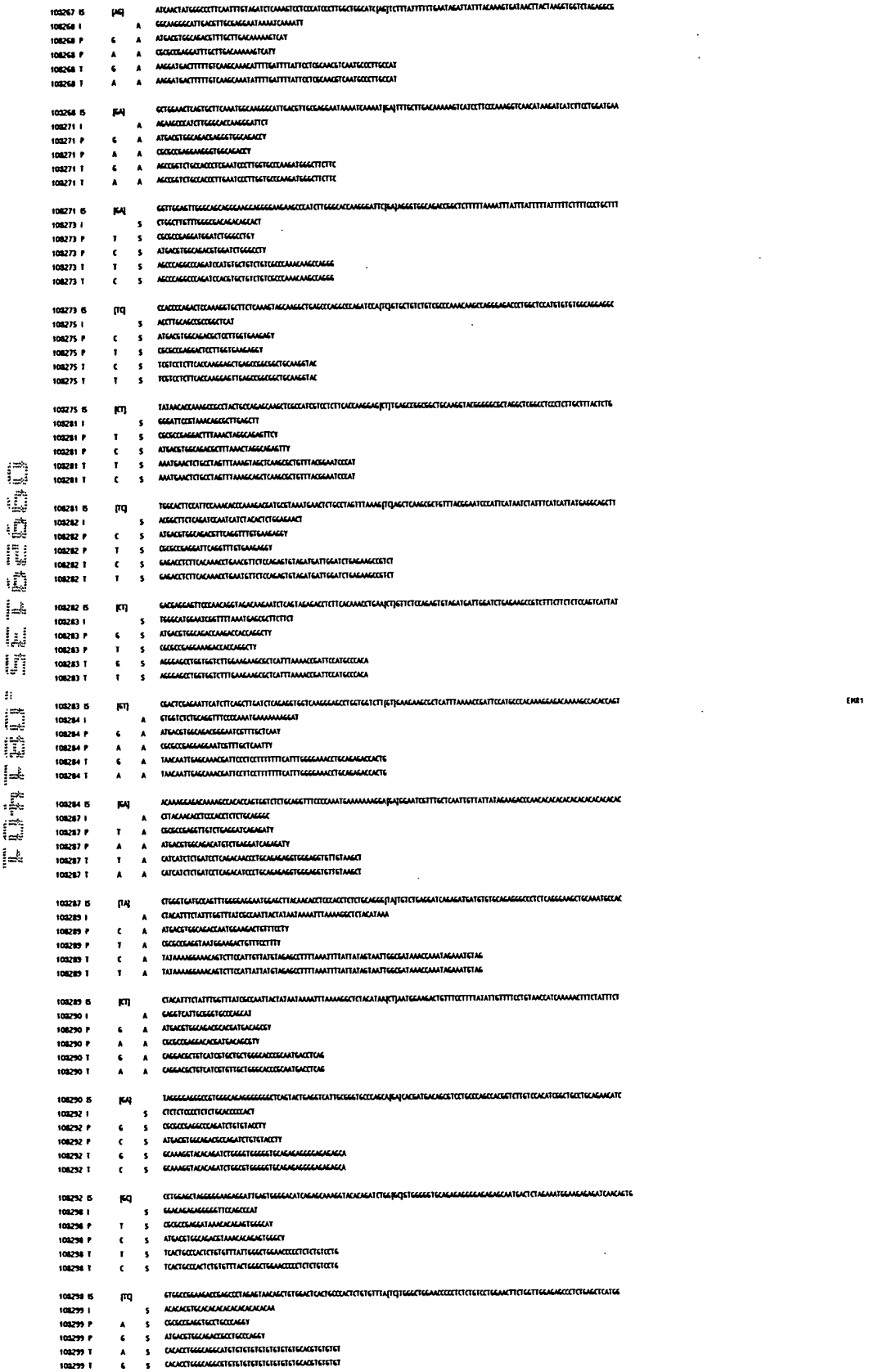
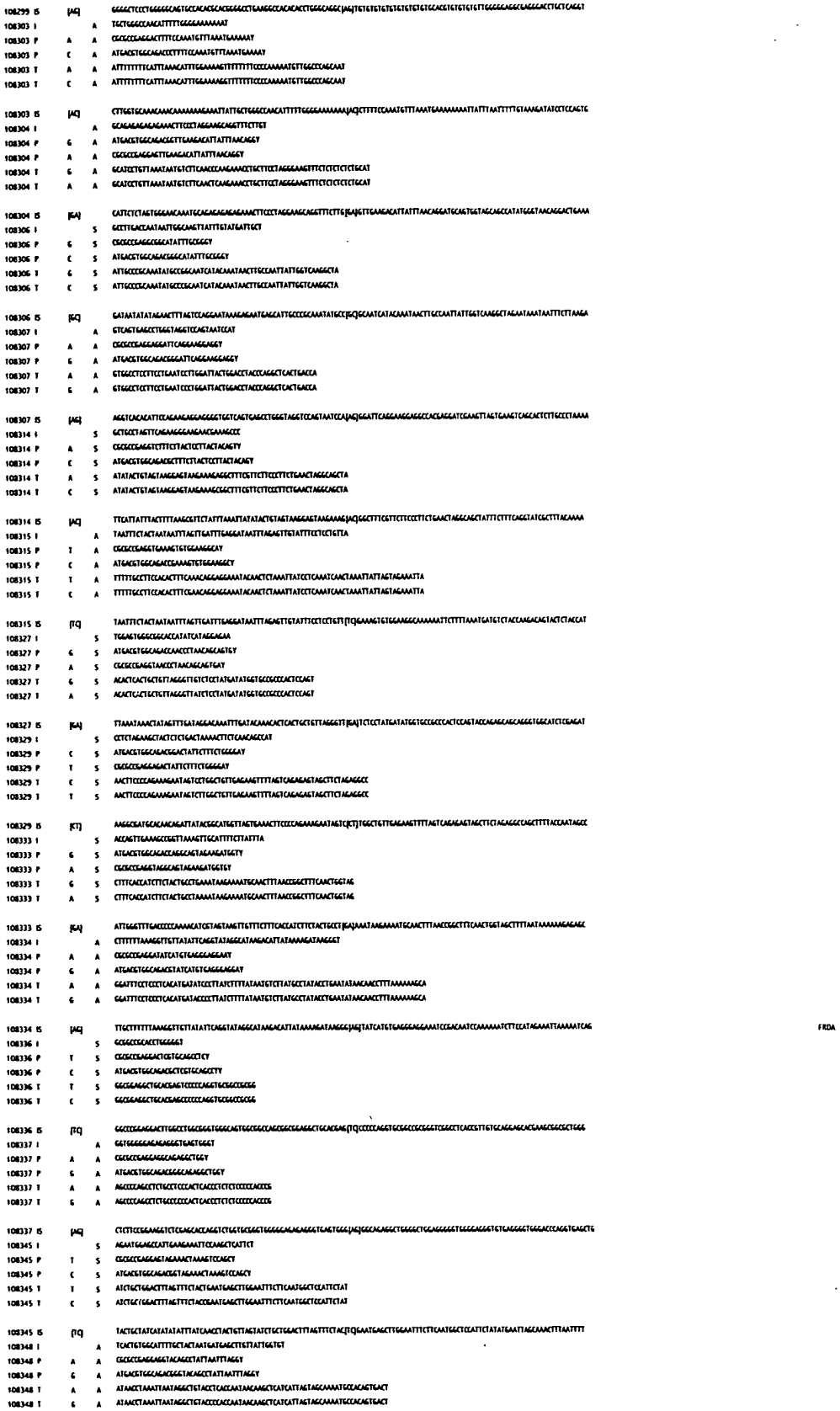


FIGURE 129G



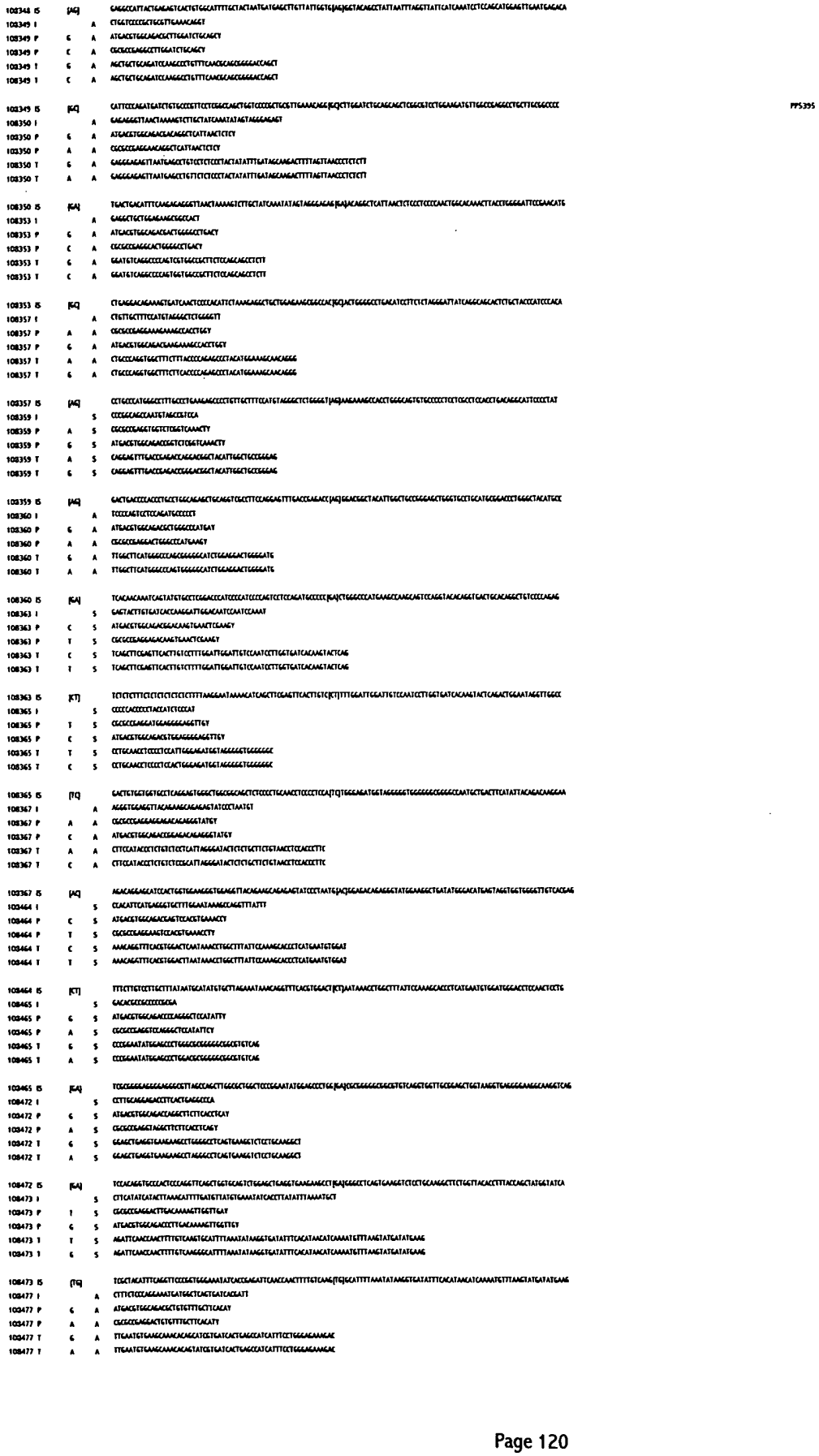
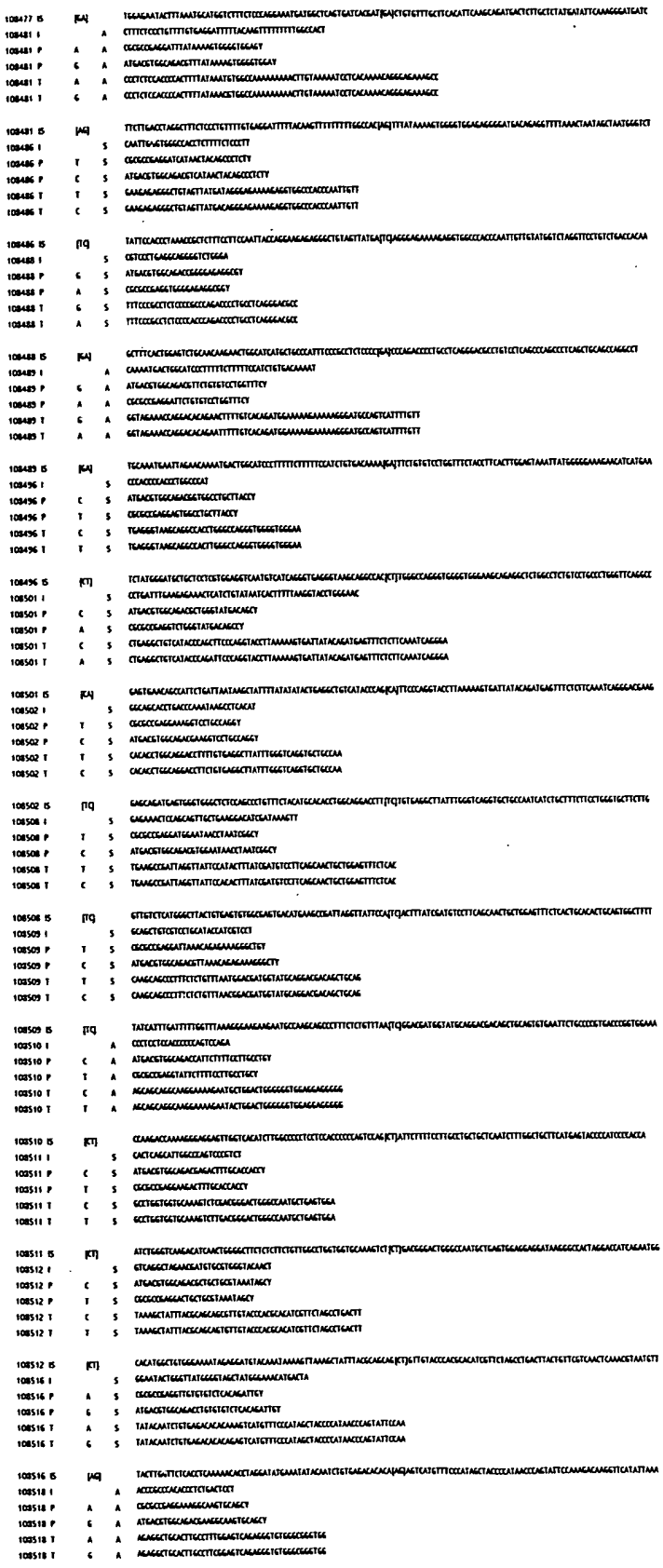
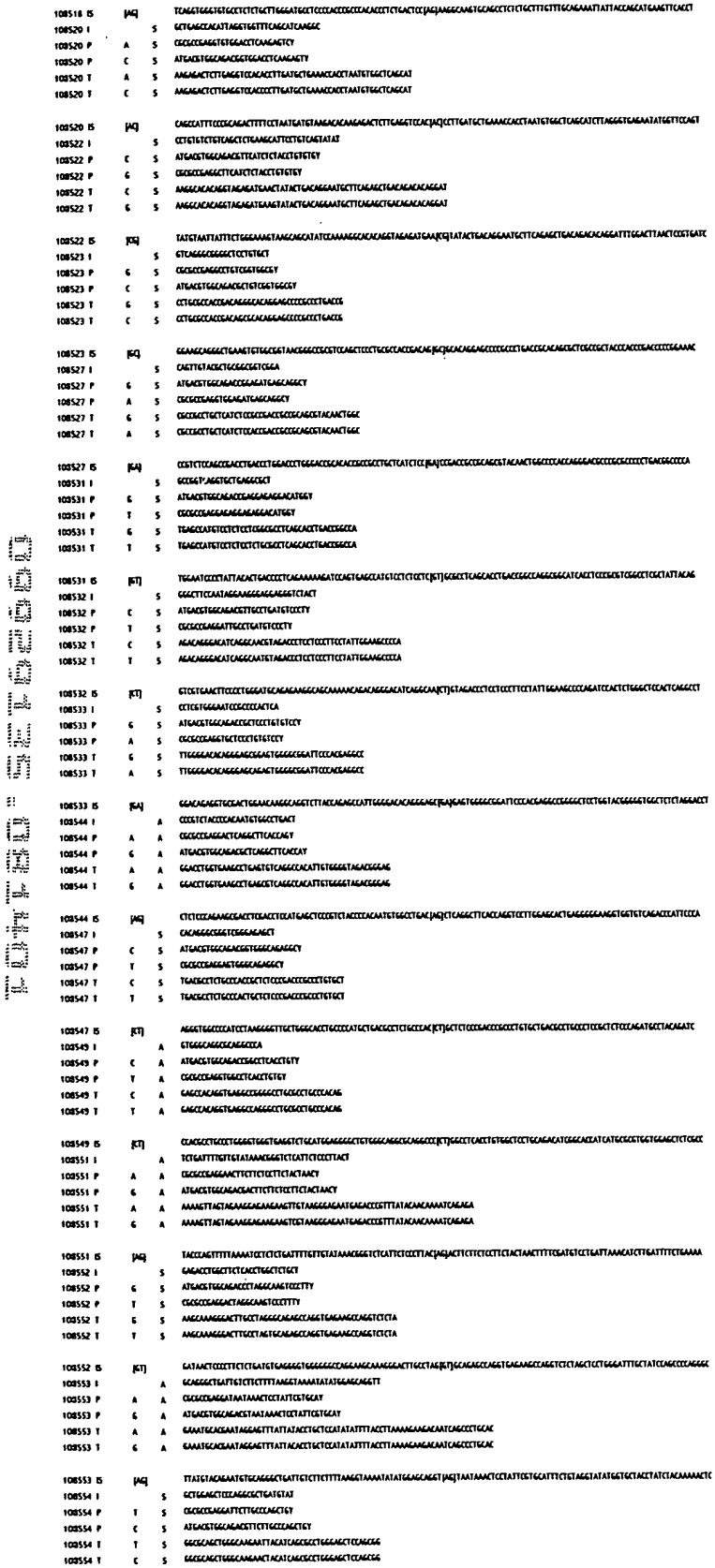


FIGURE 129G





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FIGURE 129G

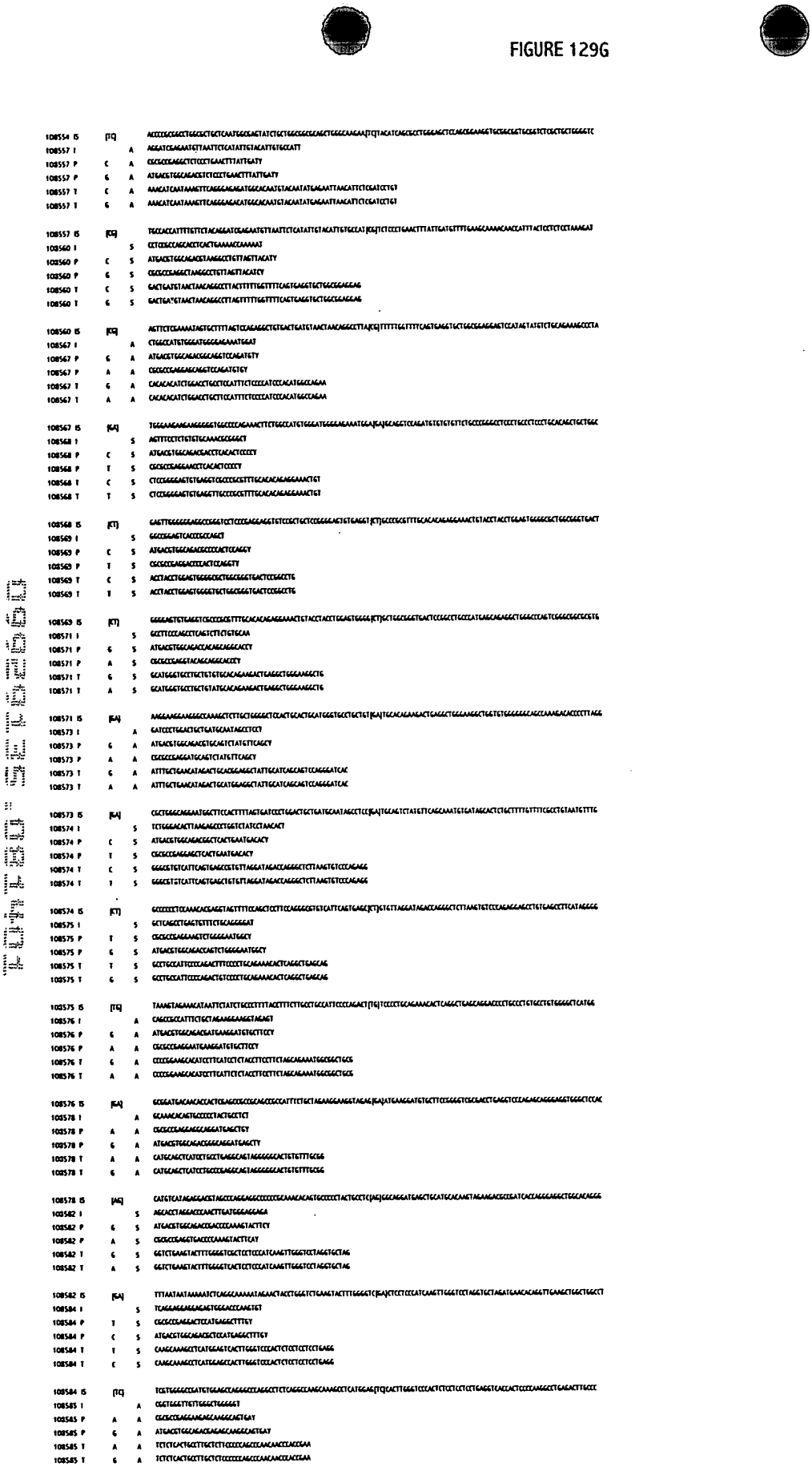
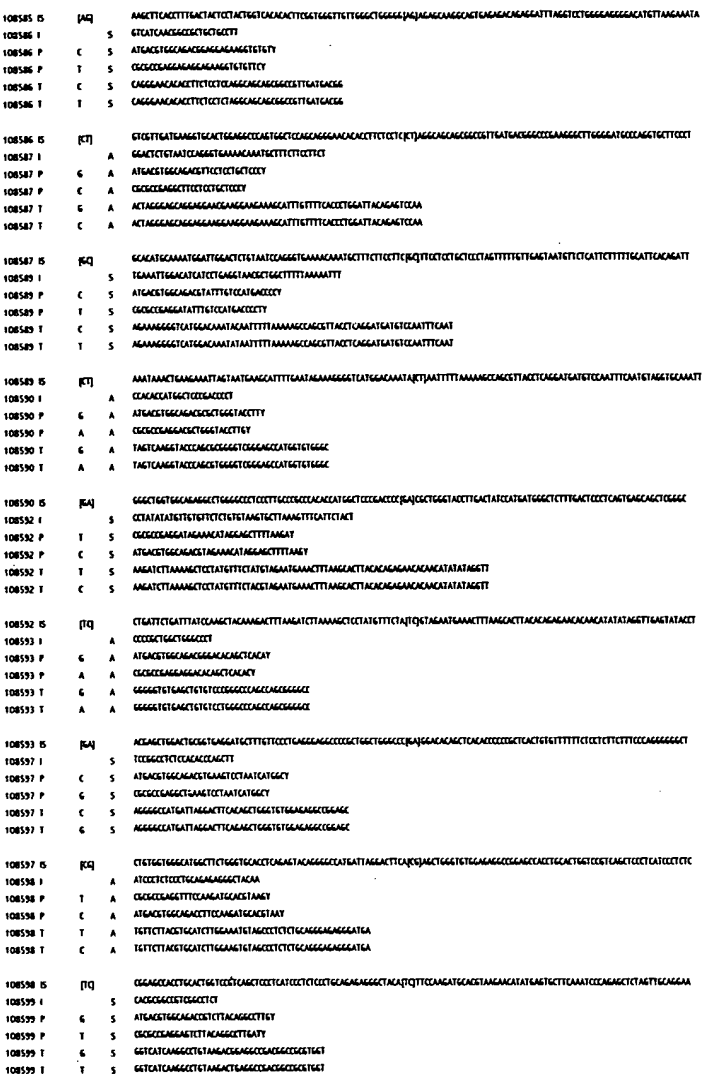


FIGURE 129G



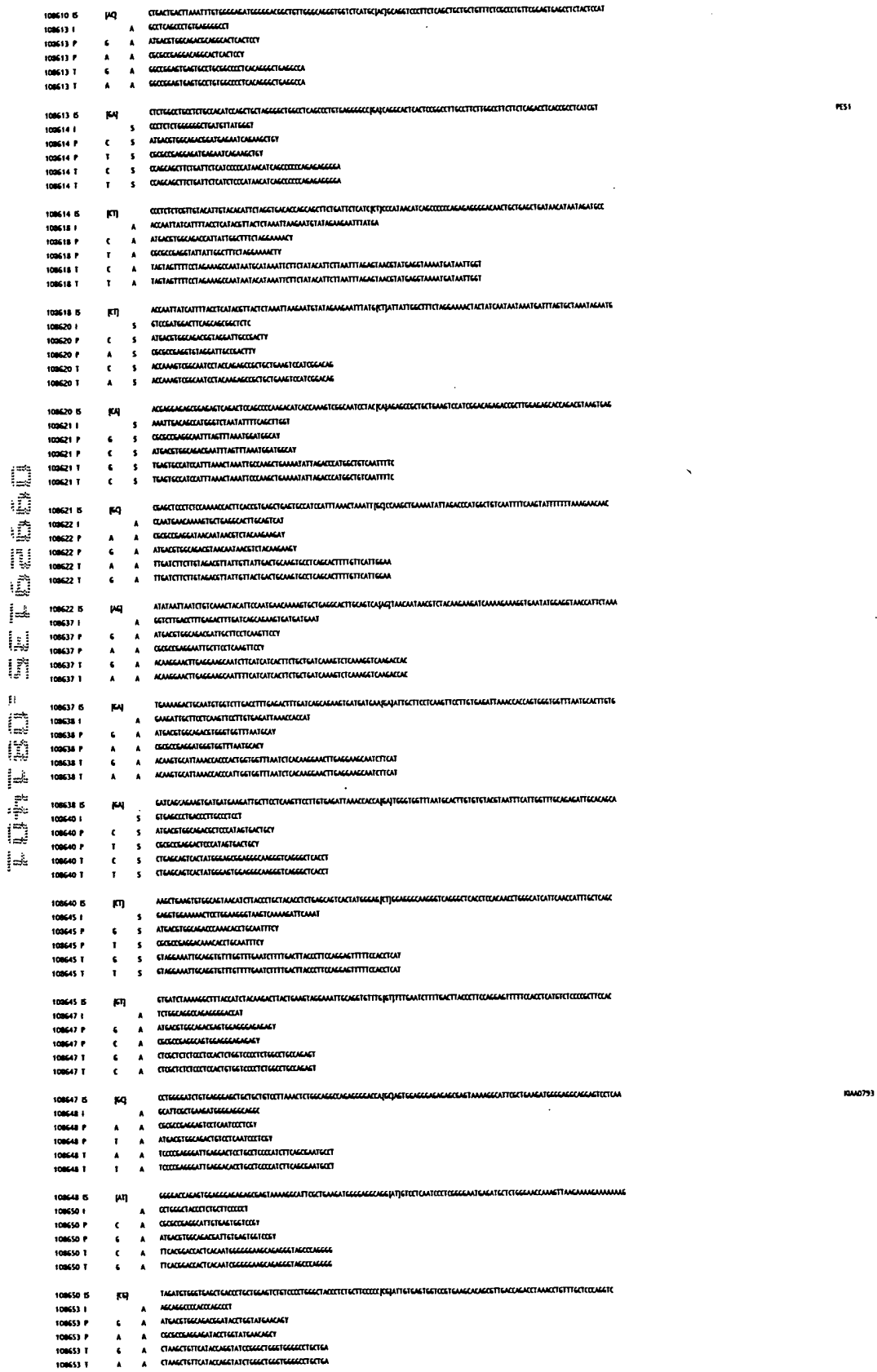
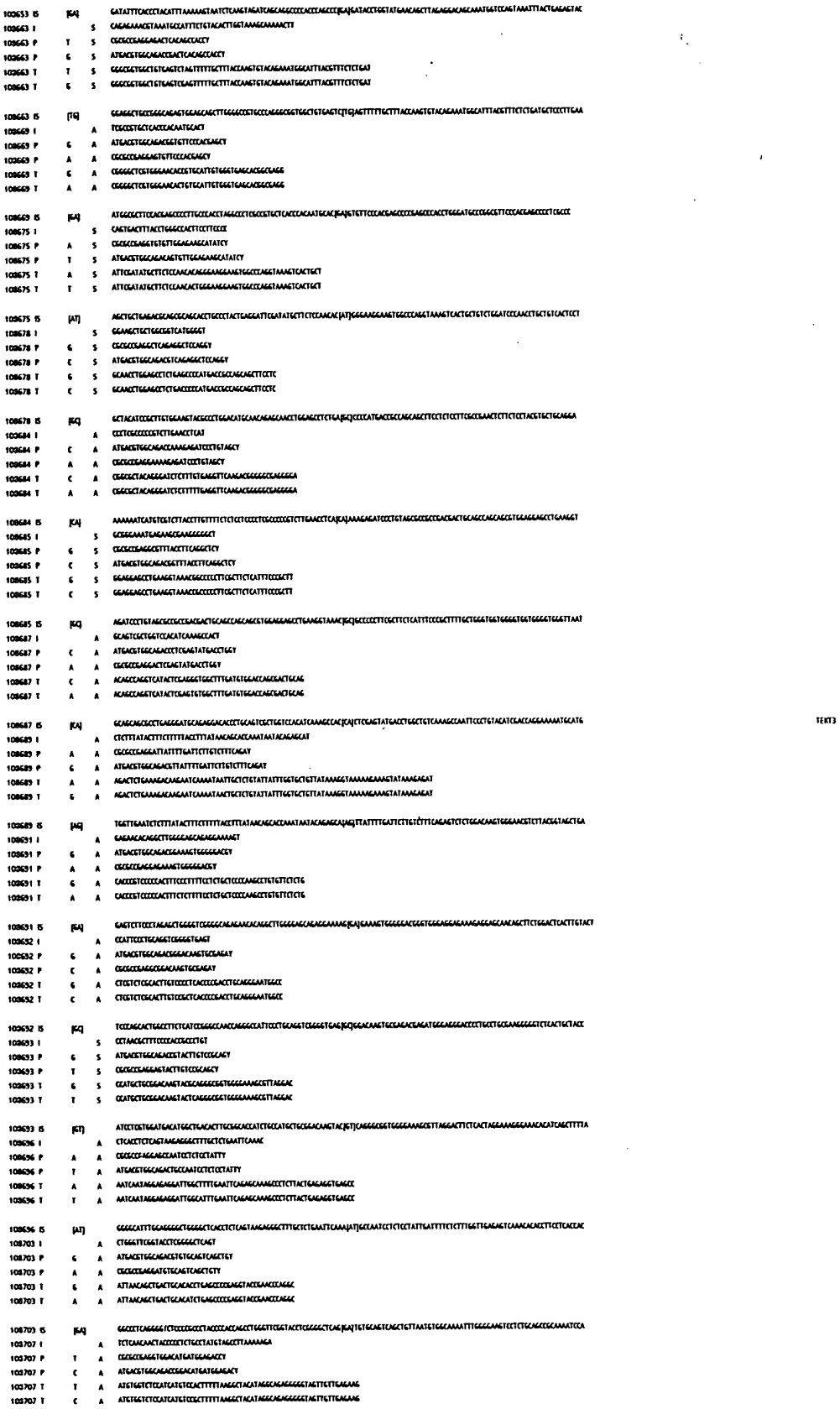
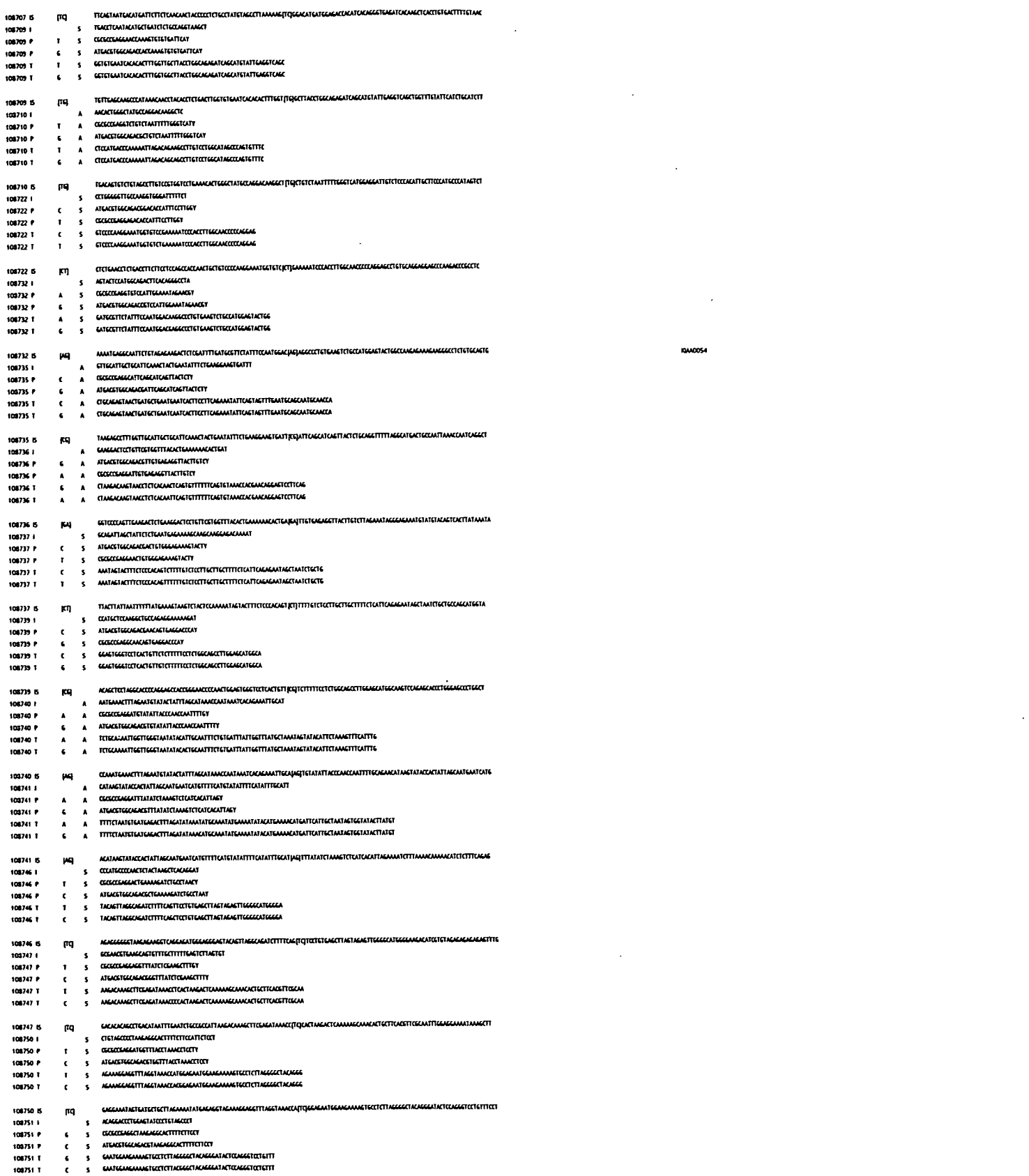


FIGURE 129G





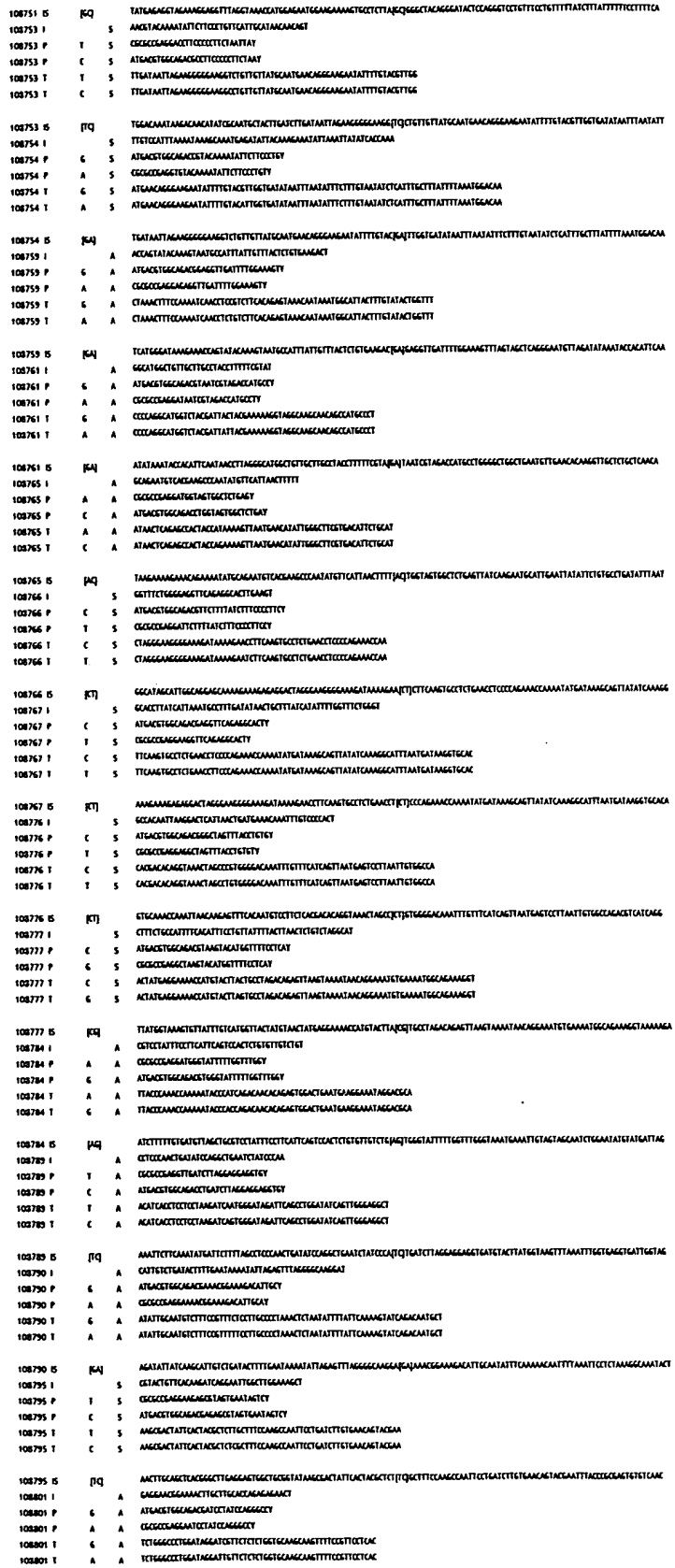
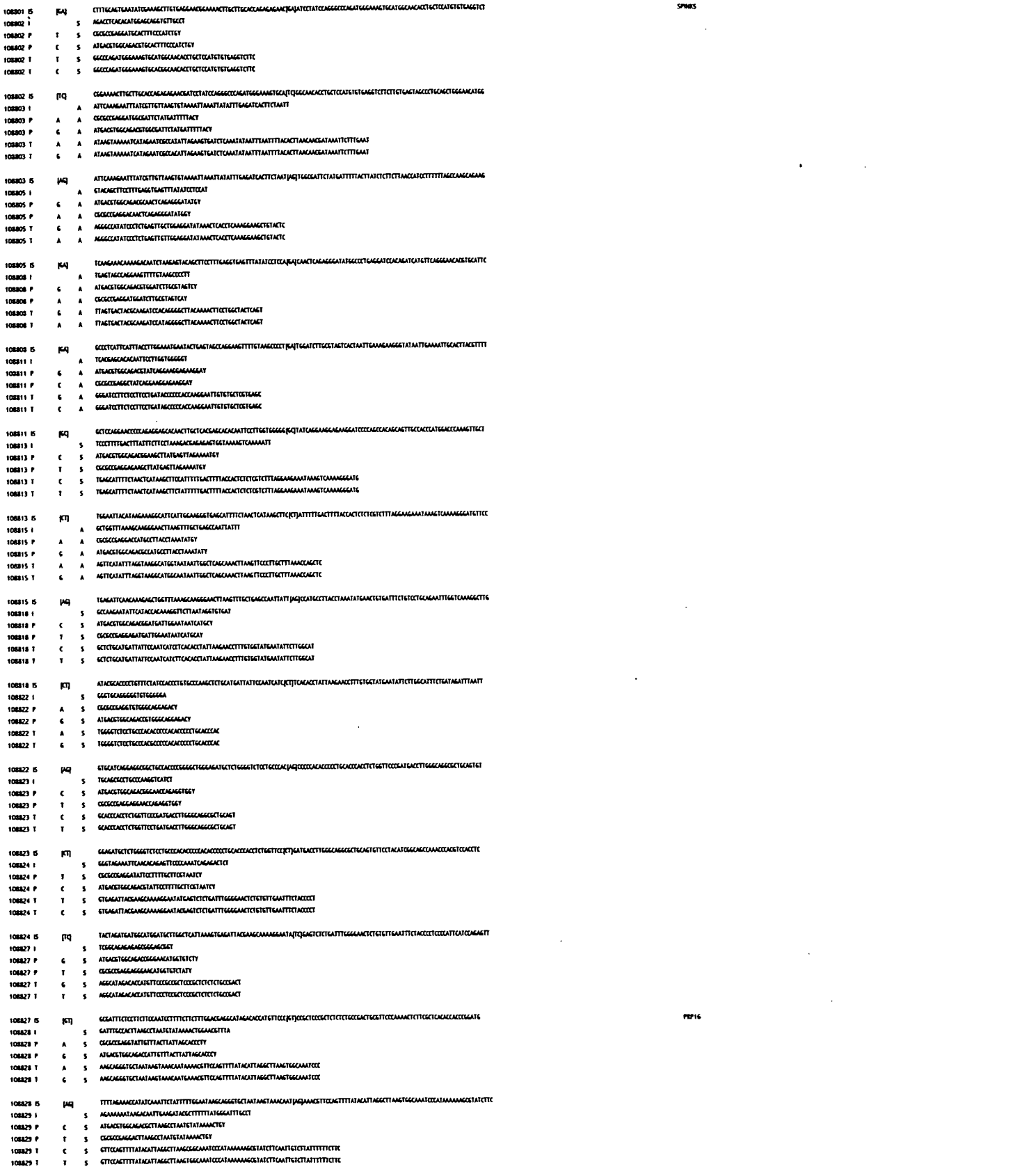


FIGURE 129G



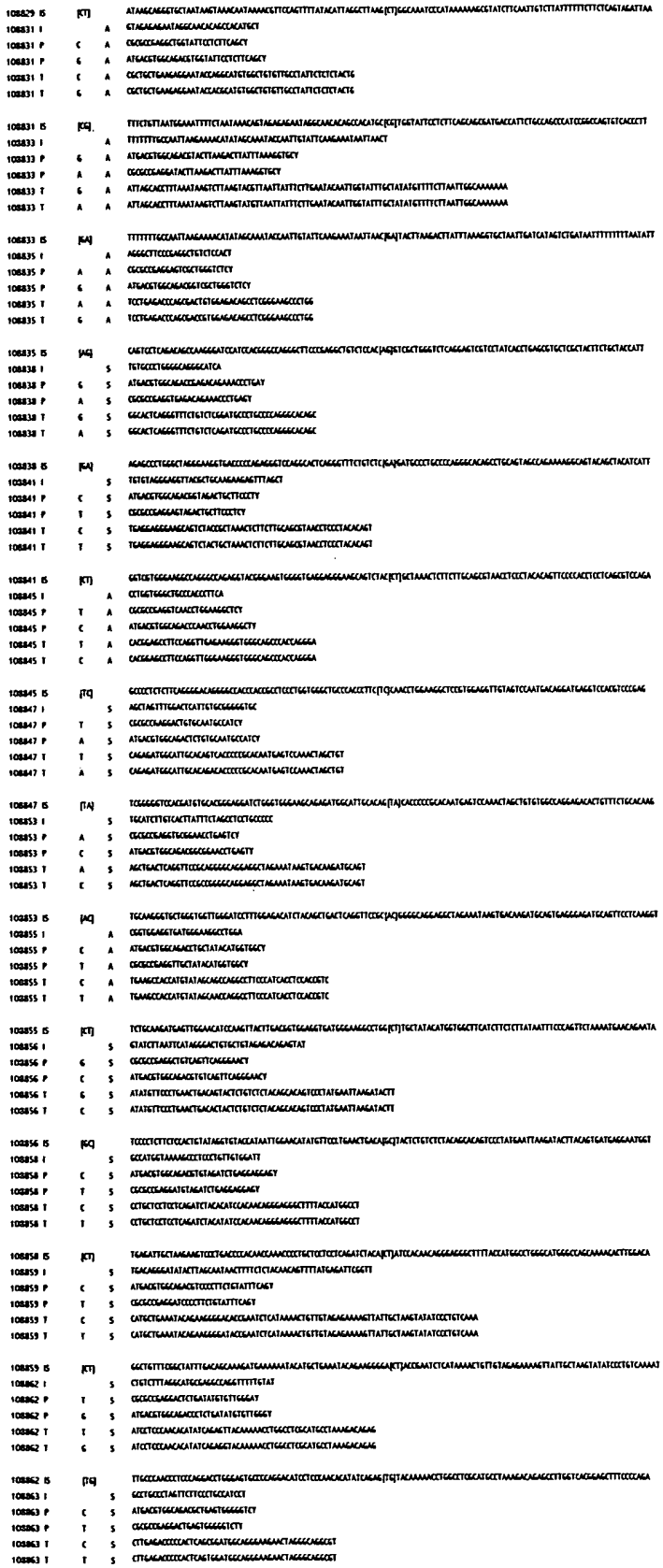
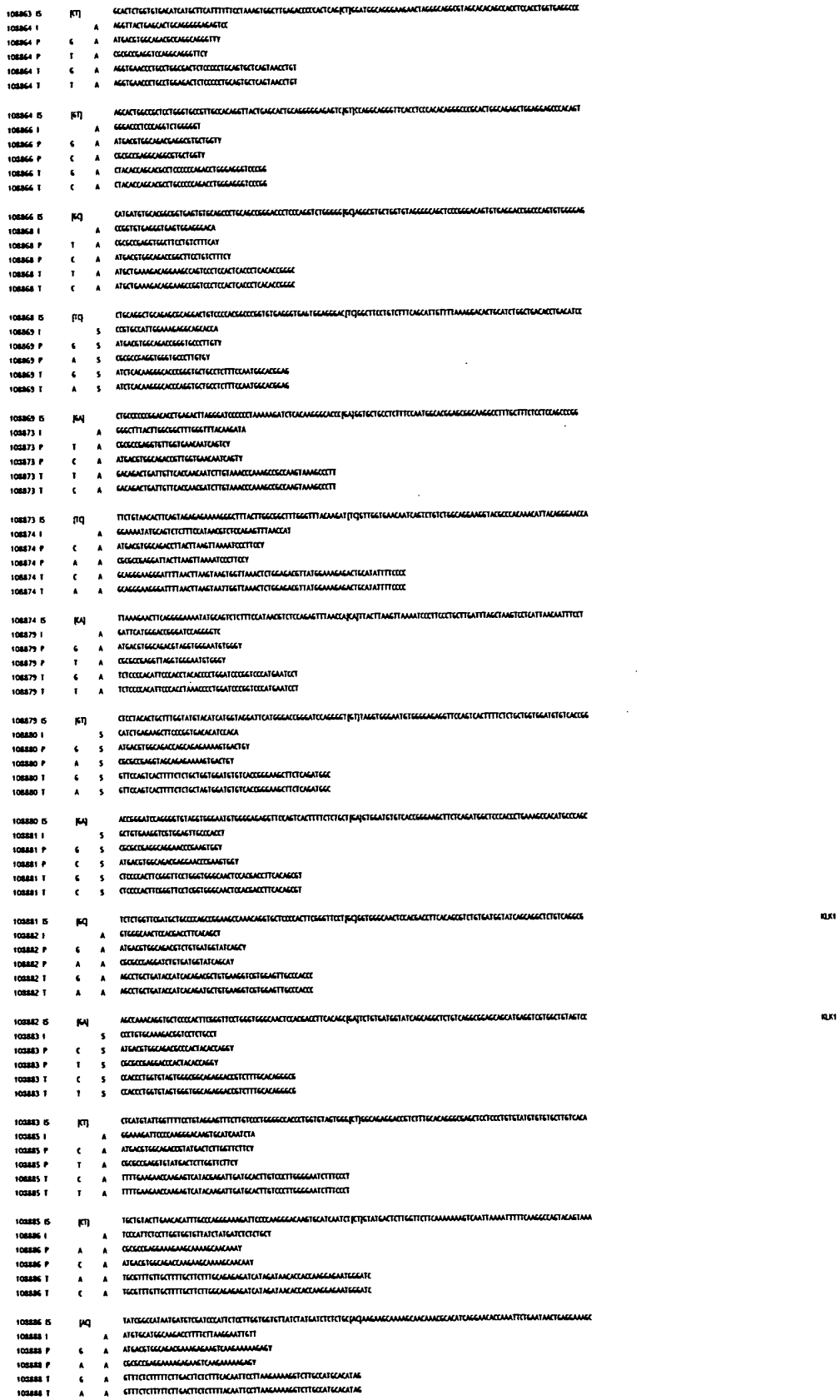


FIGURE 129G



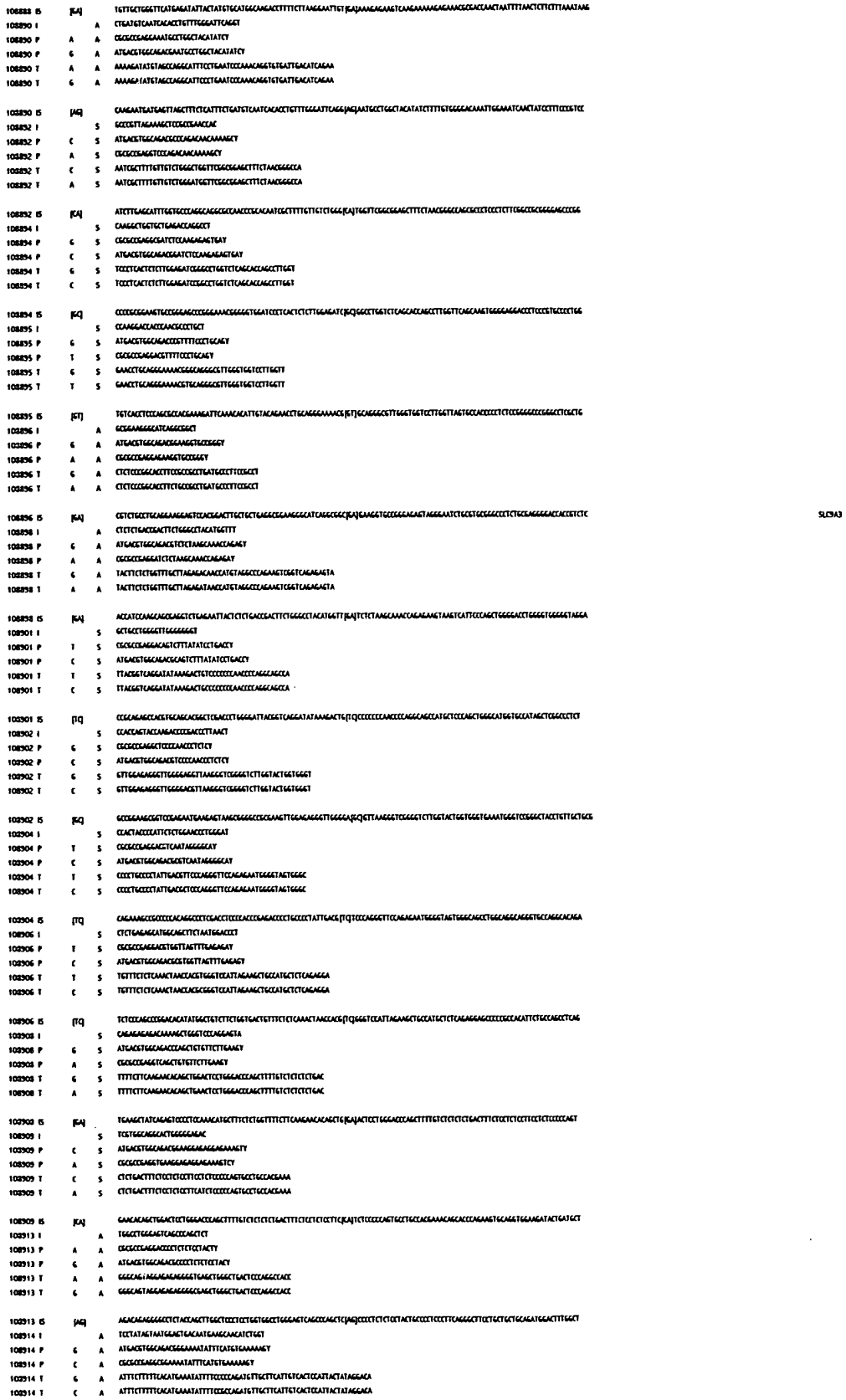
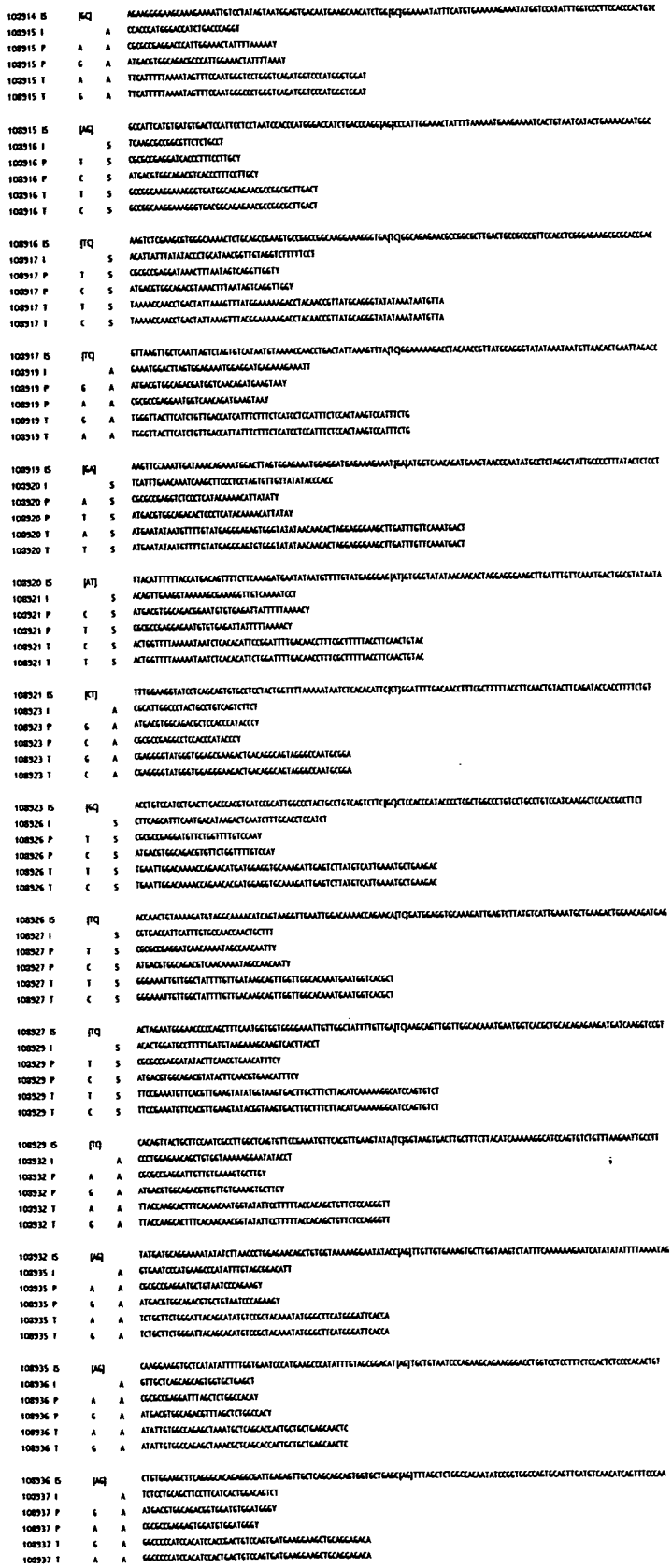


FIGURE 129G



Sequence Listing Page

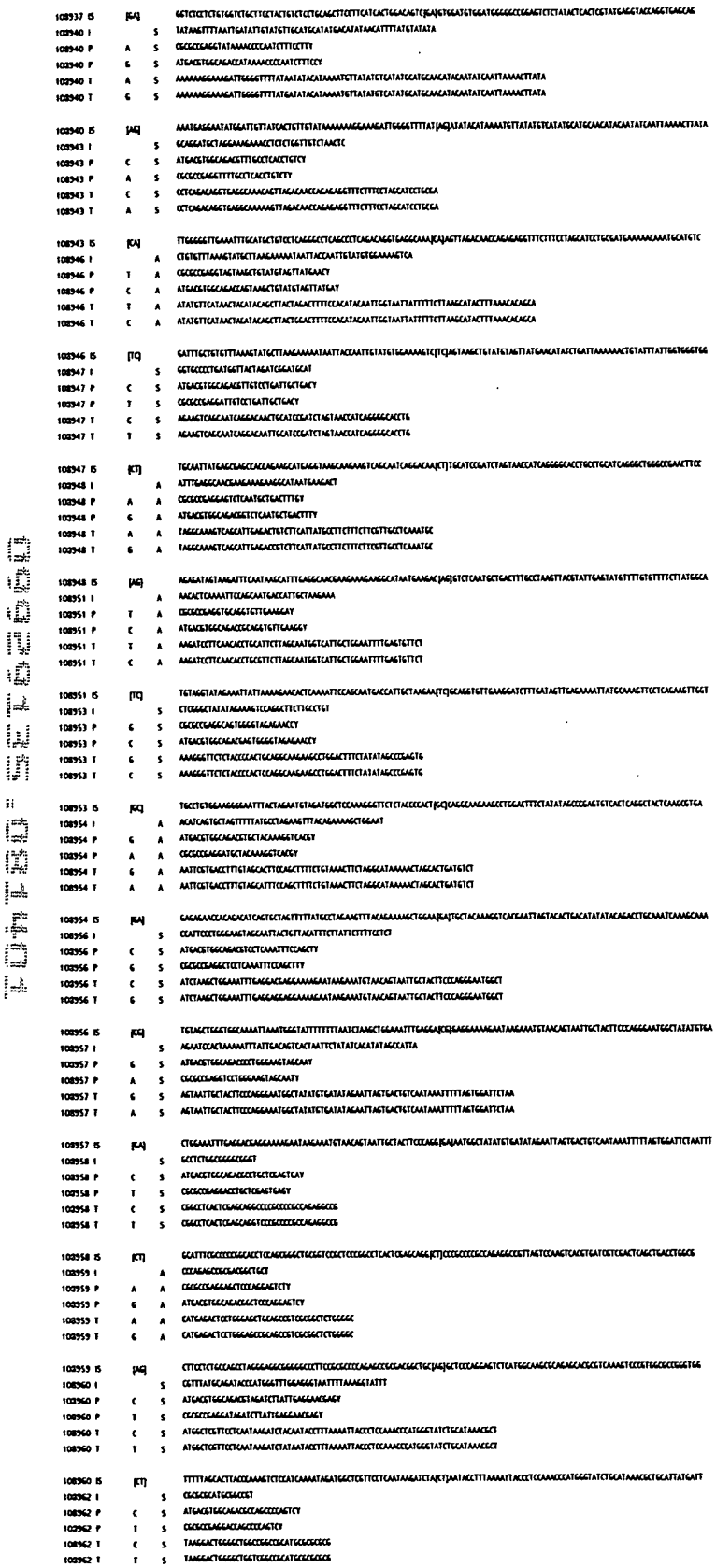
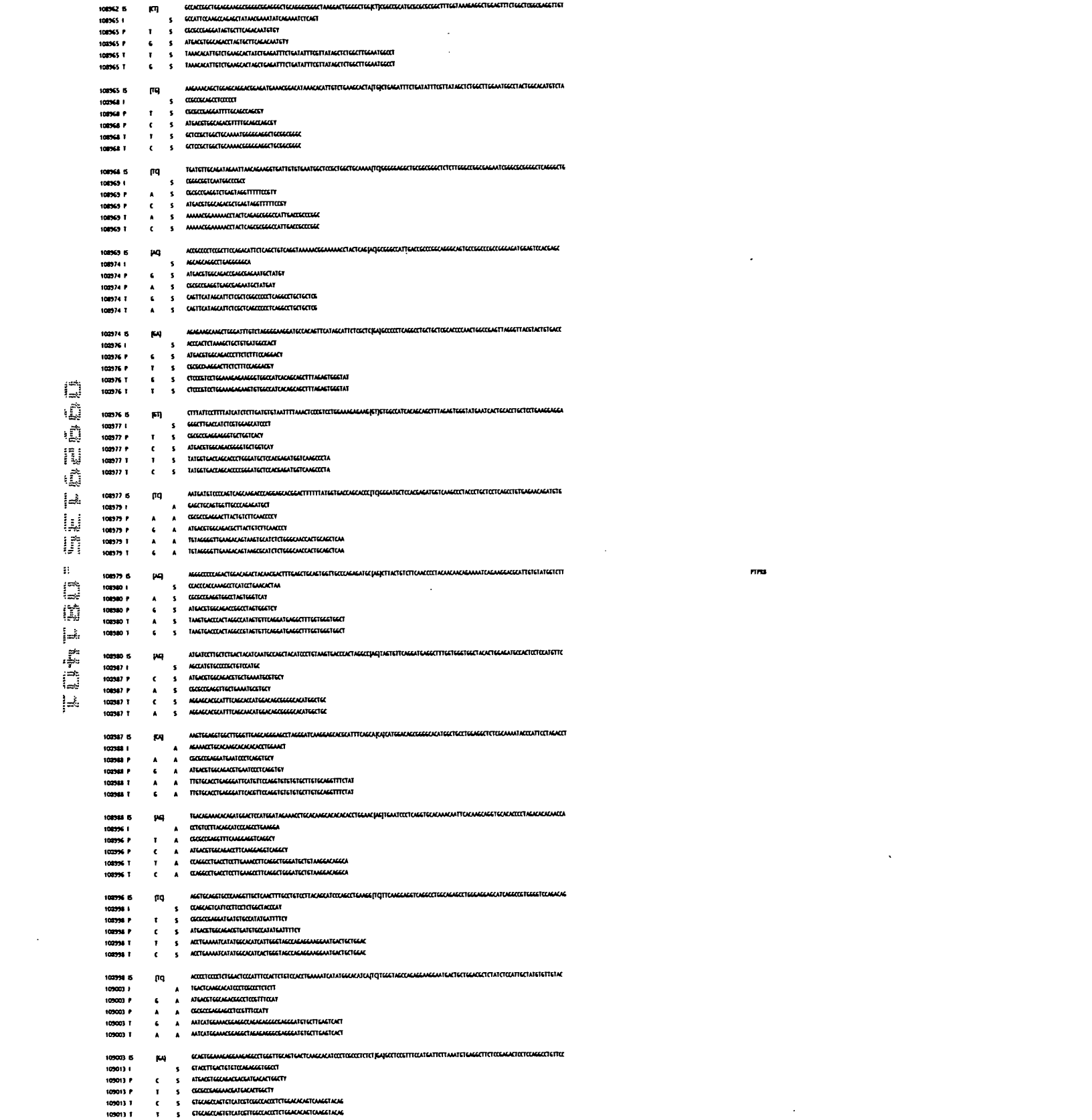


FIGURE 129G



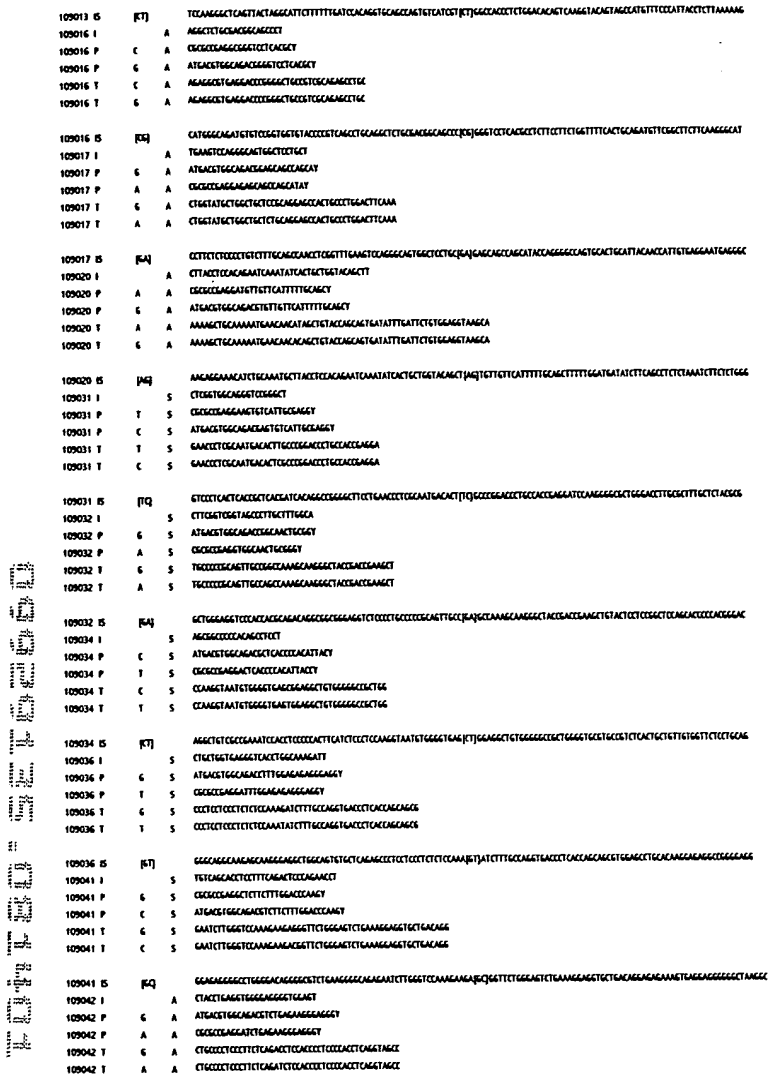
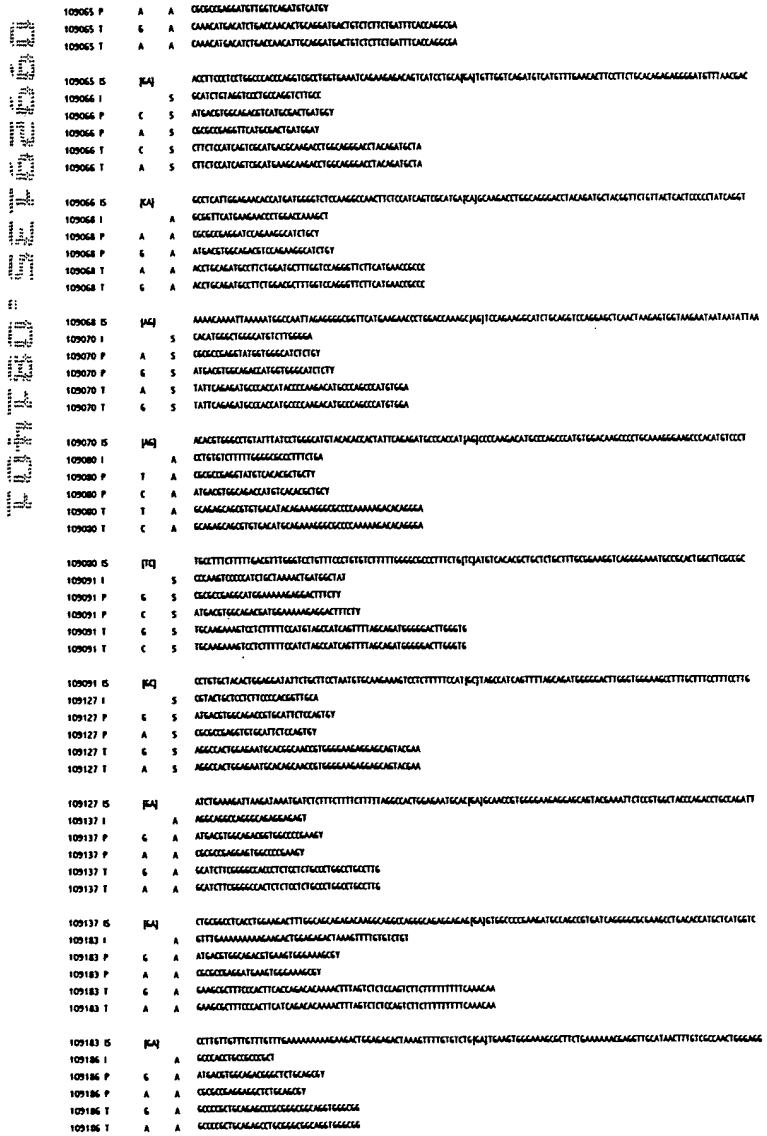


FIGURE 129G



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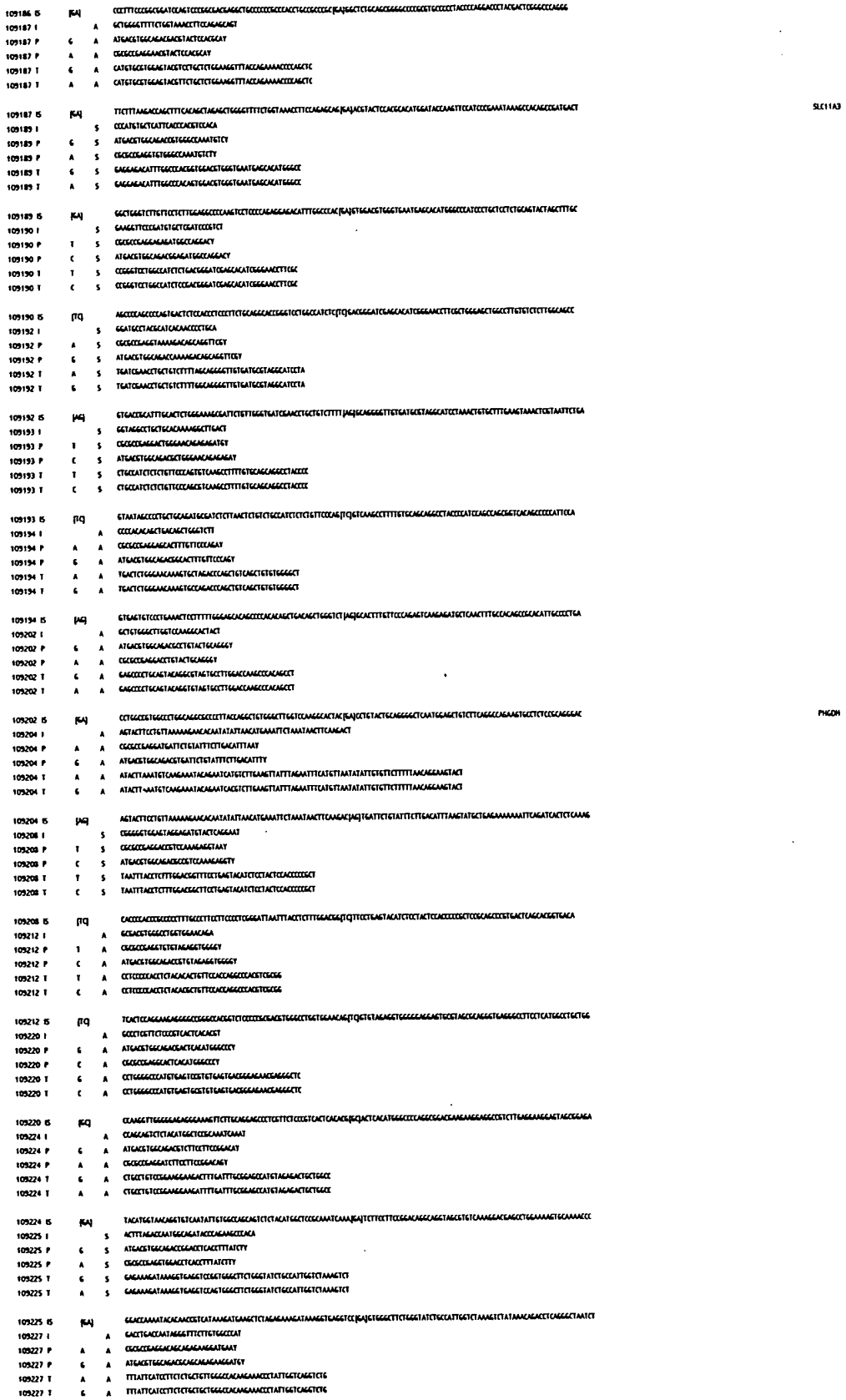
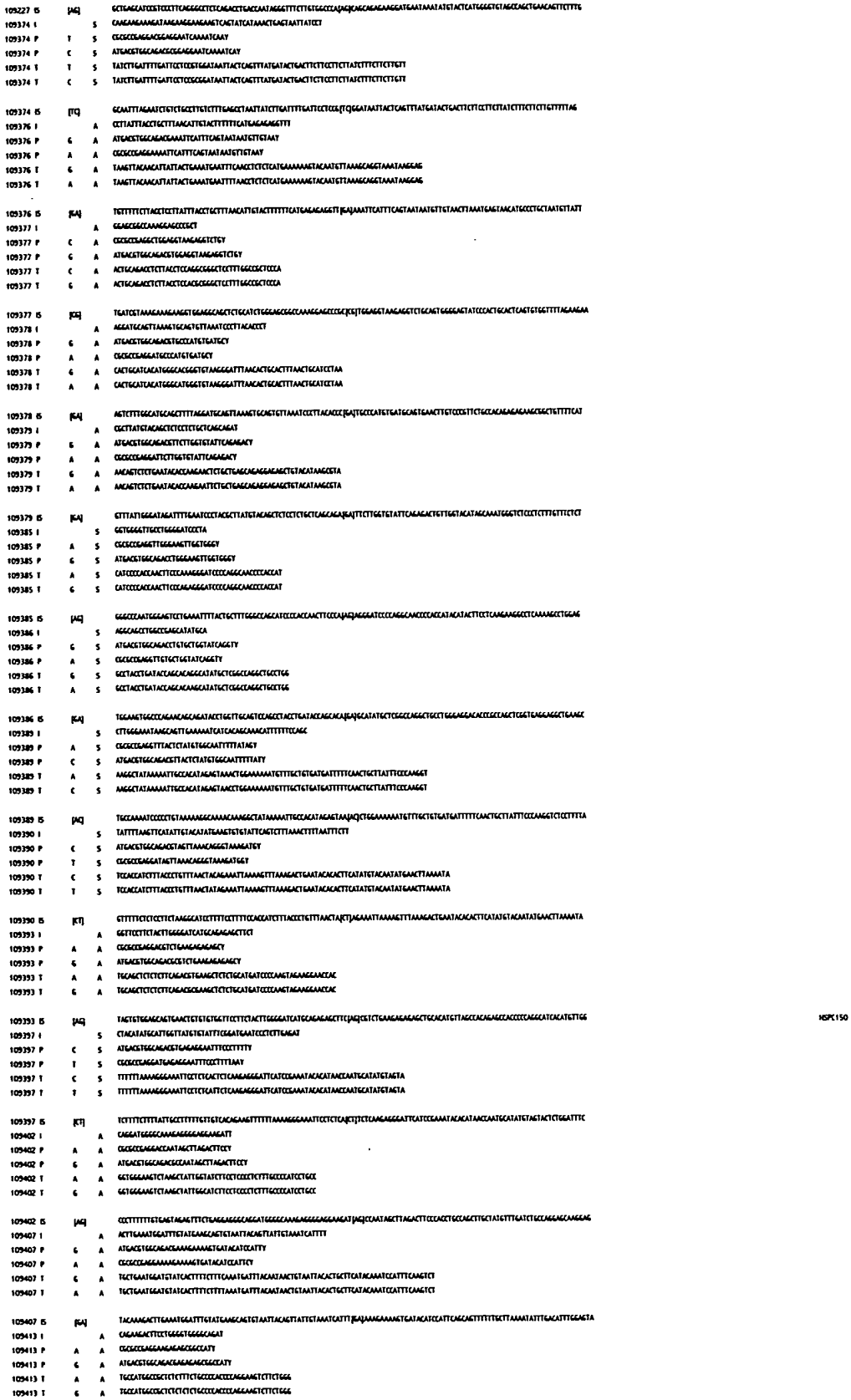
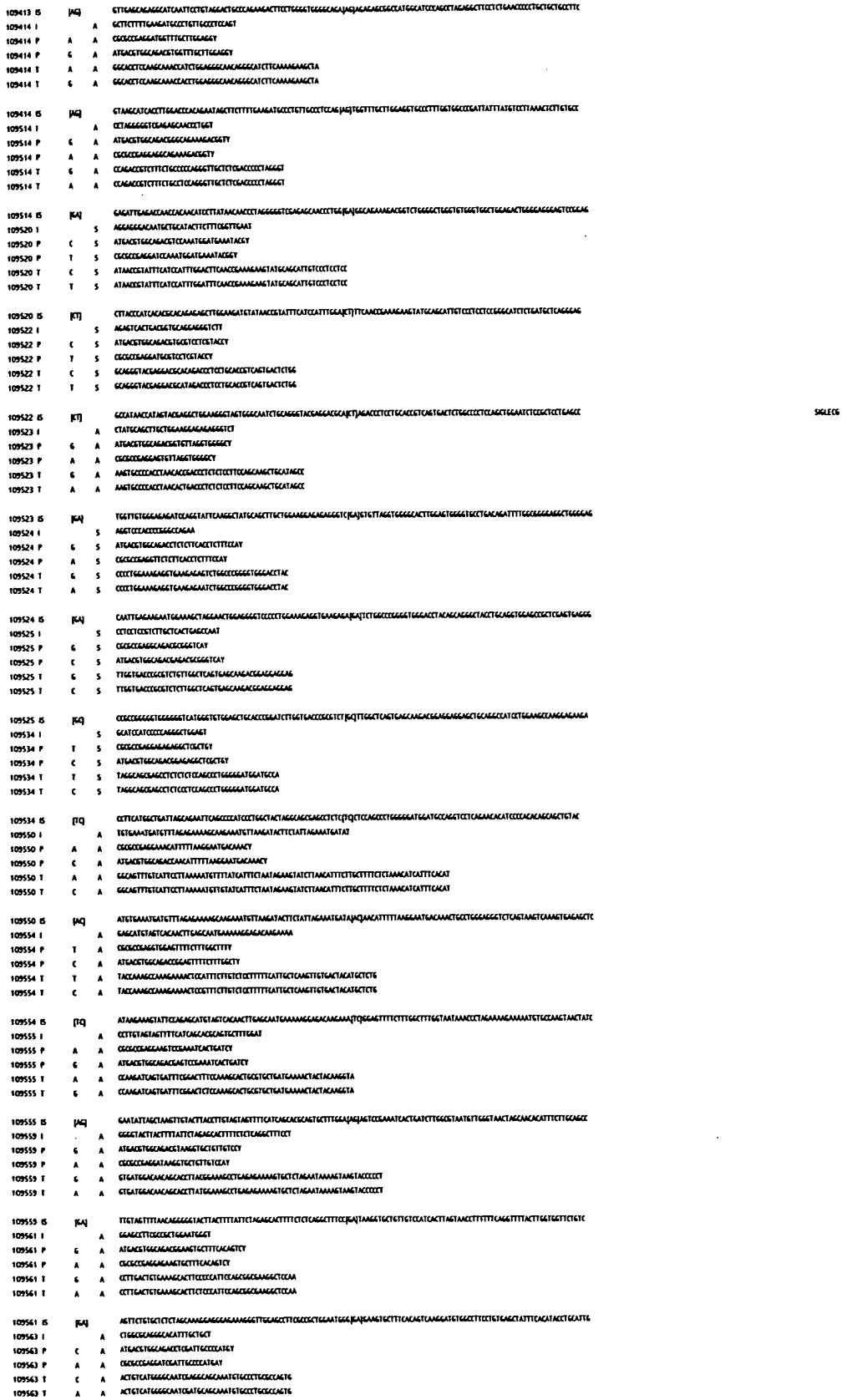


FIGURE 129G





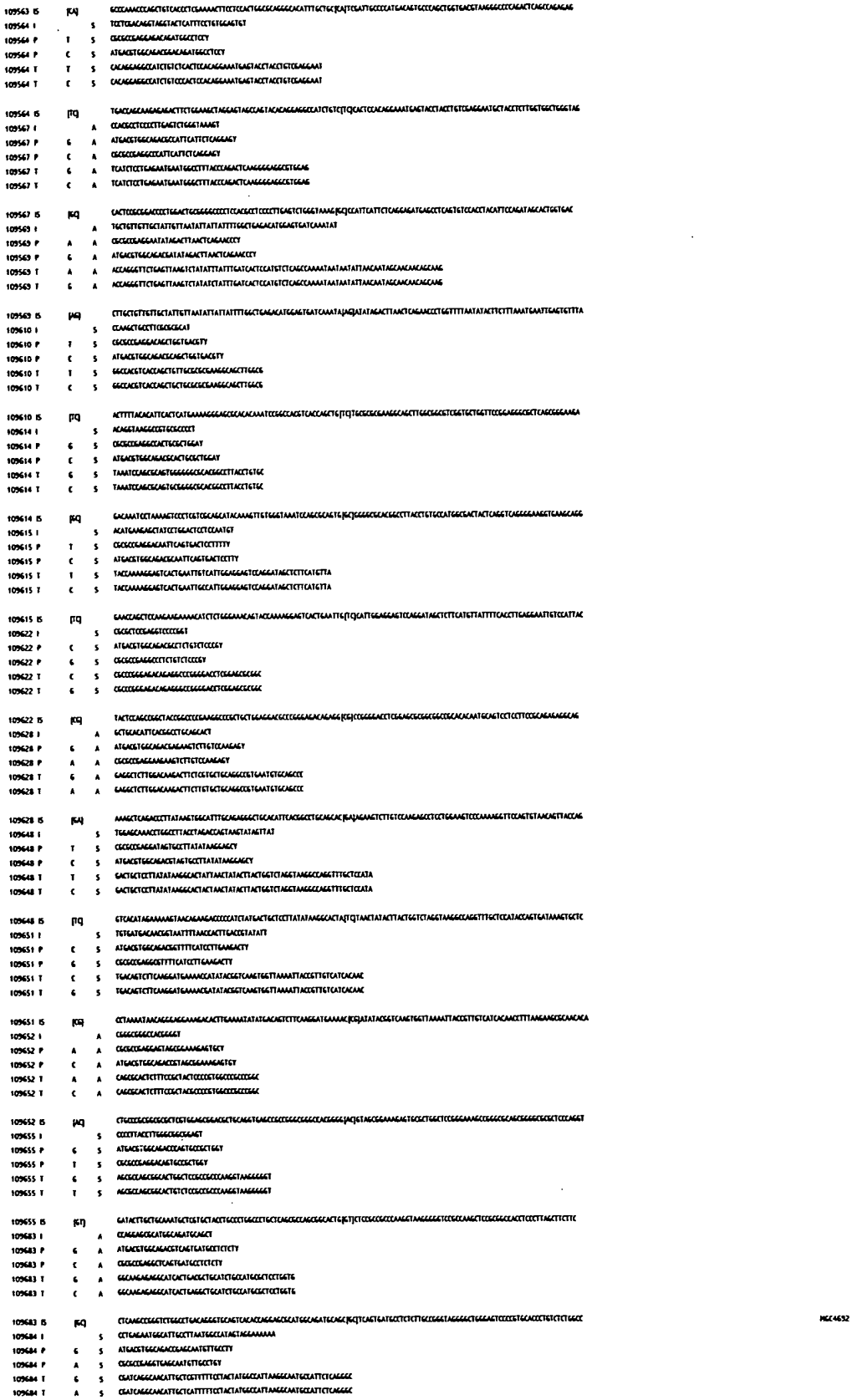
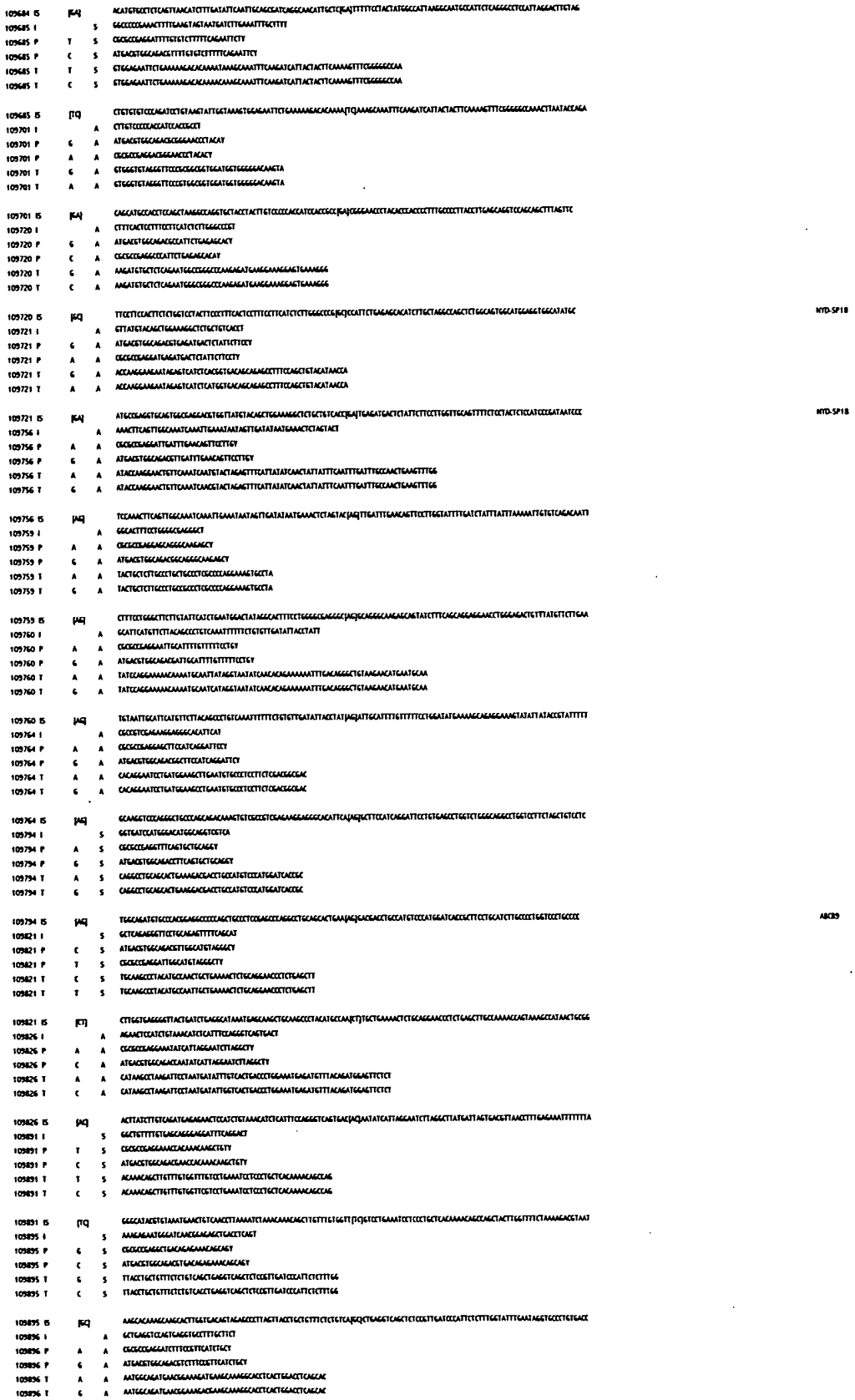


FIGURE 129G



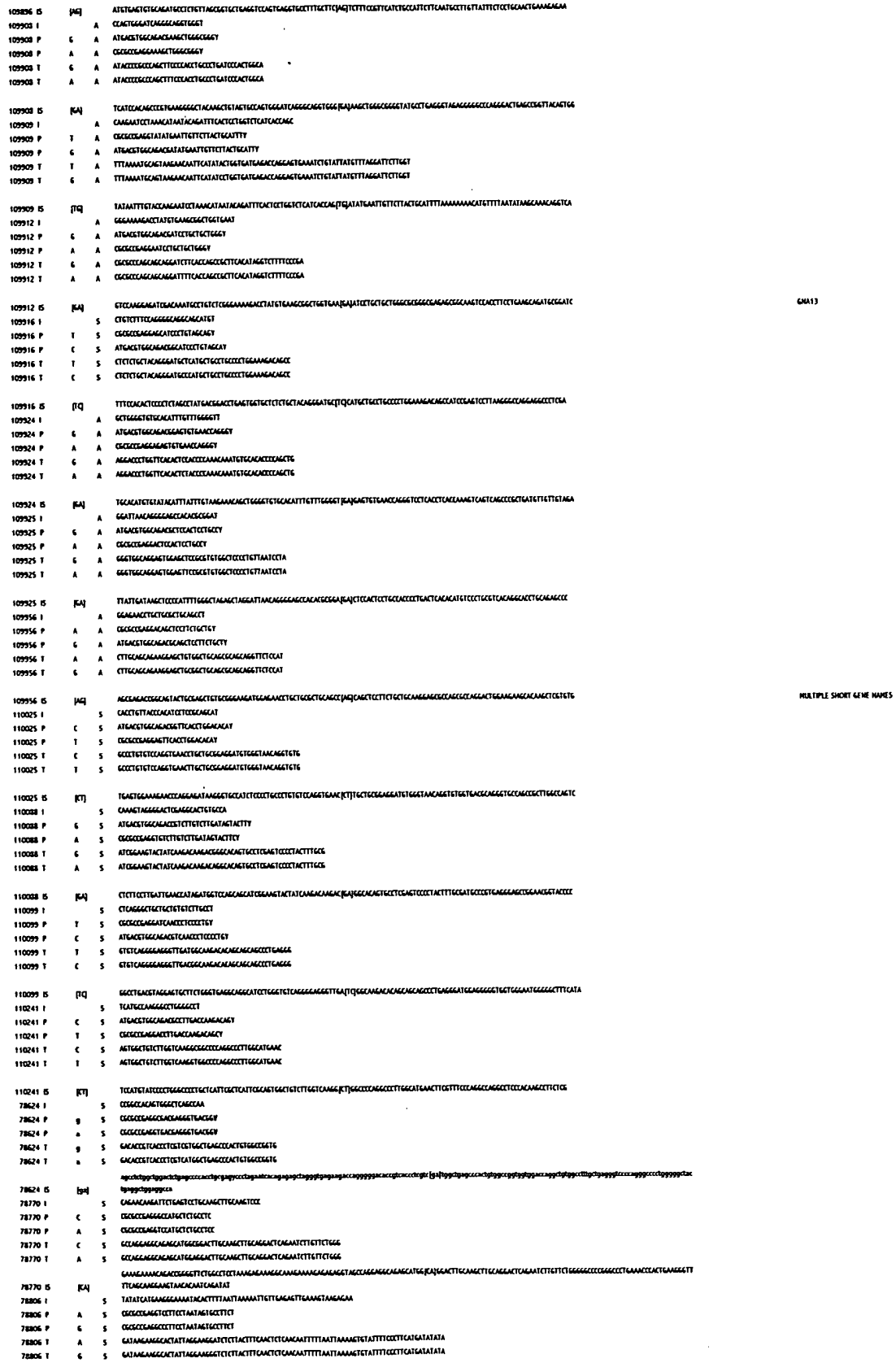
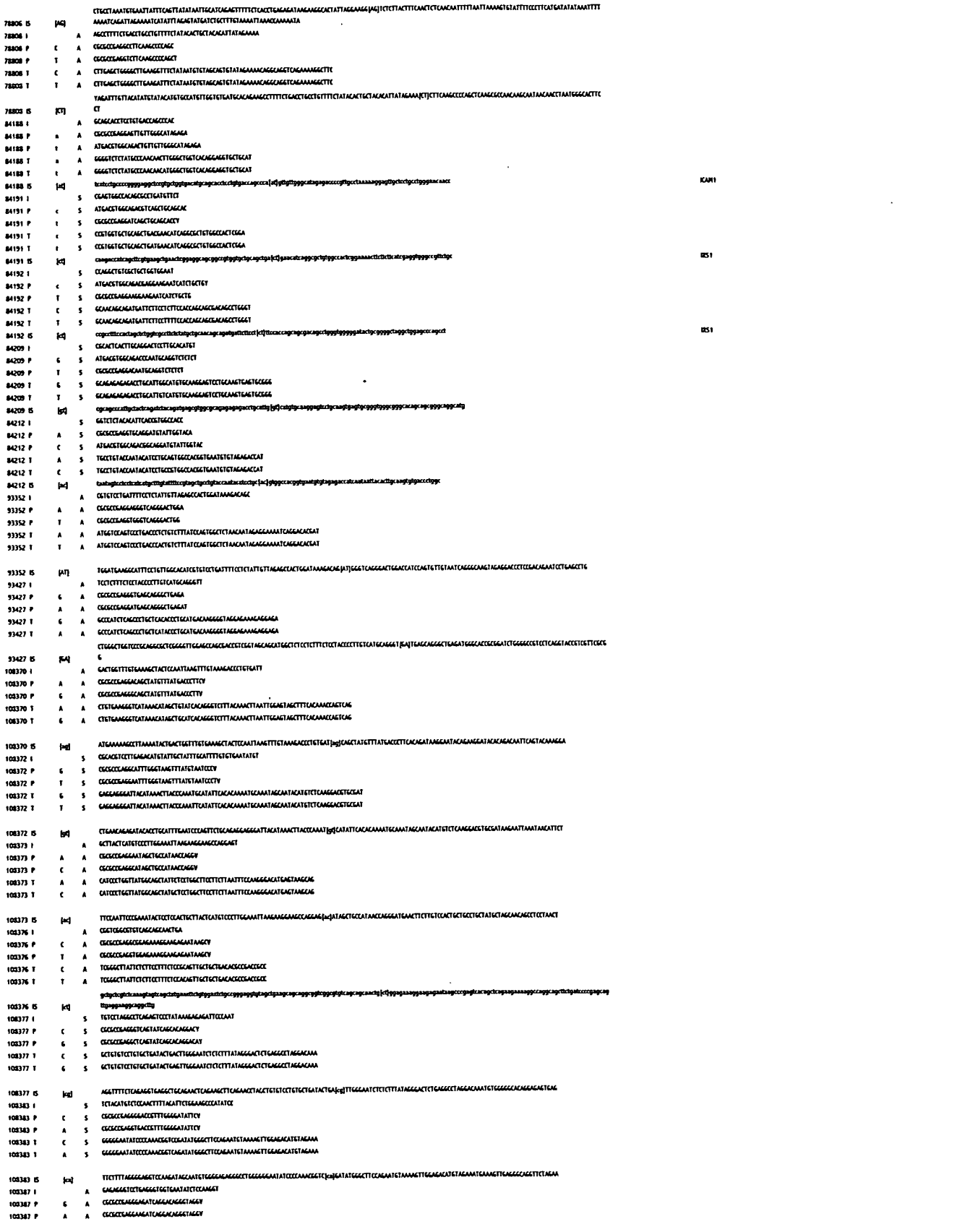
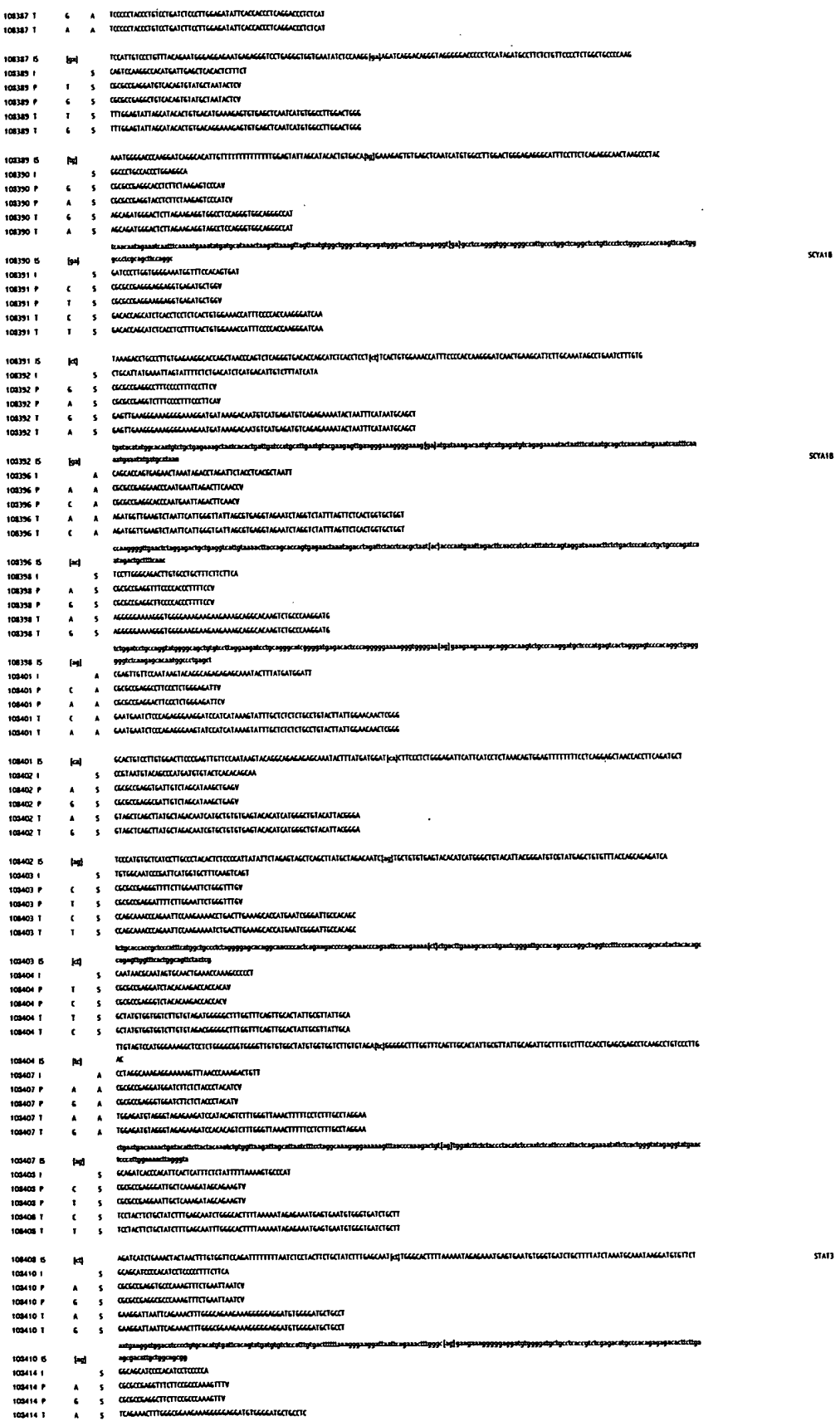
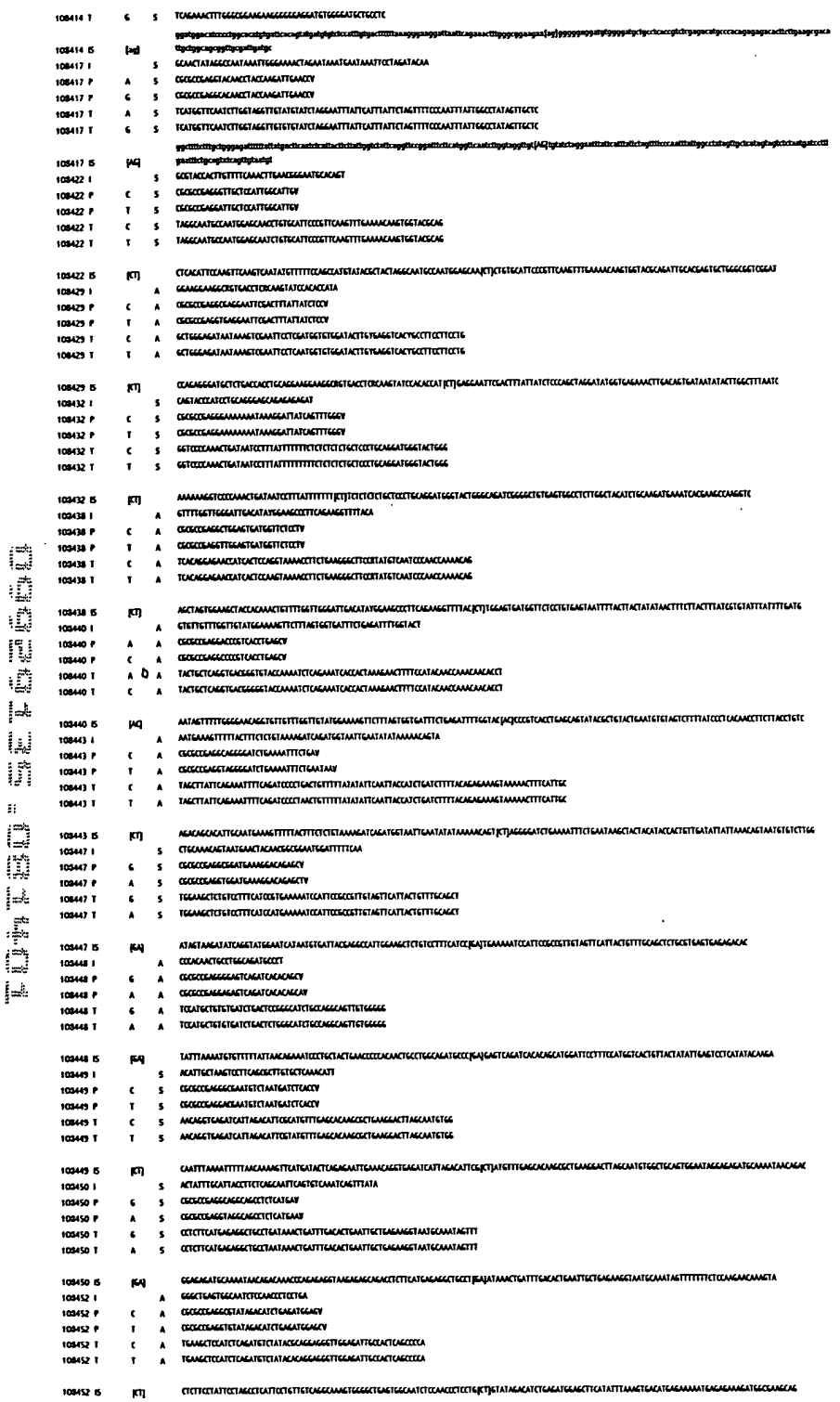
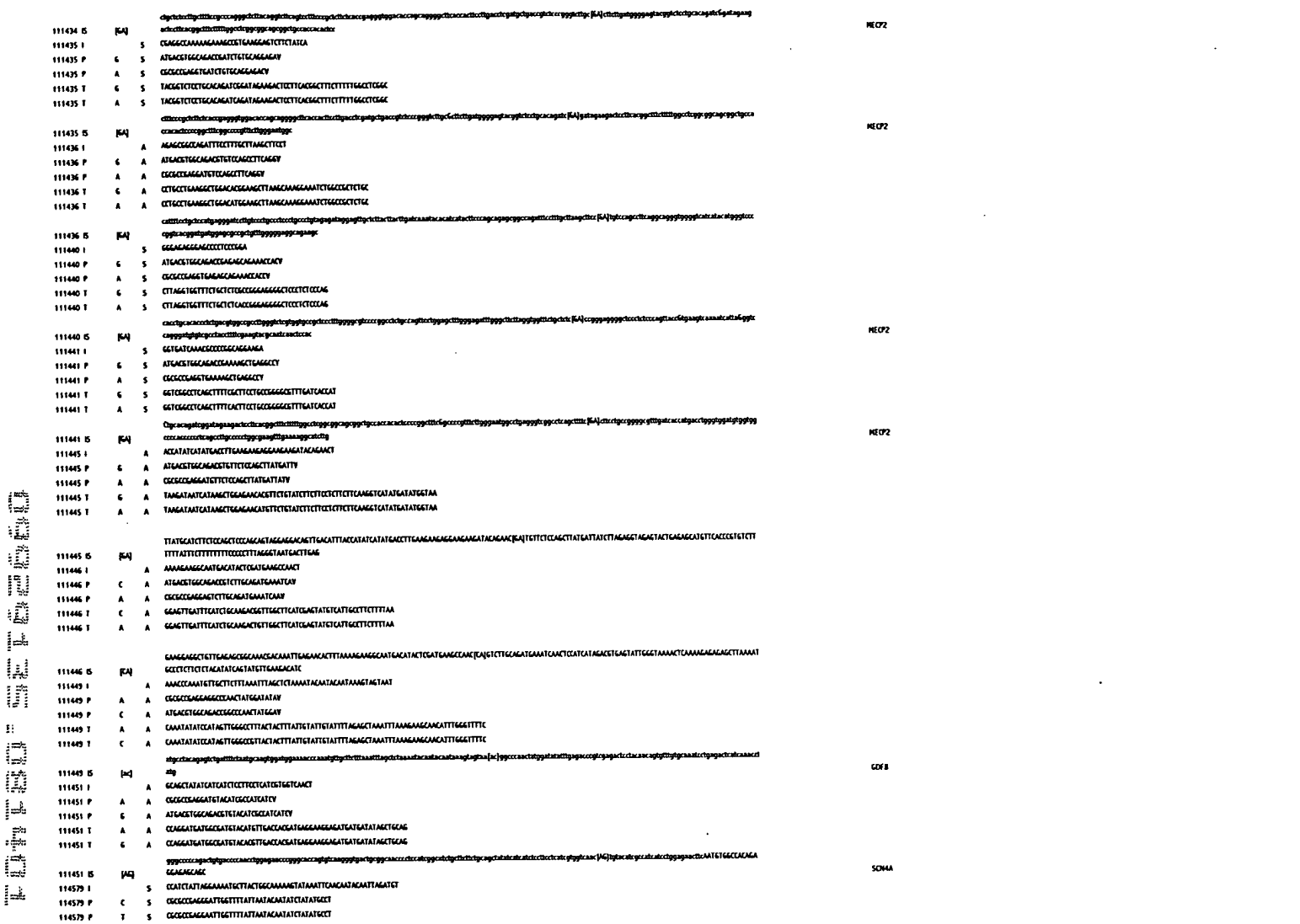

GNA13
MULTIPLE SHORT GENE NAMES

FIGURE 129G









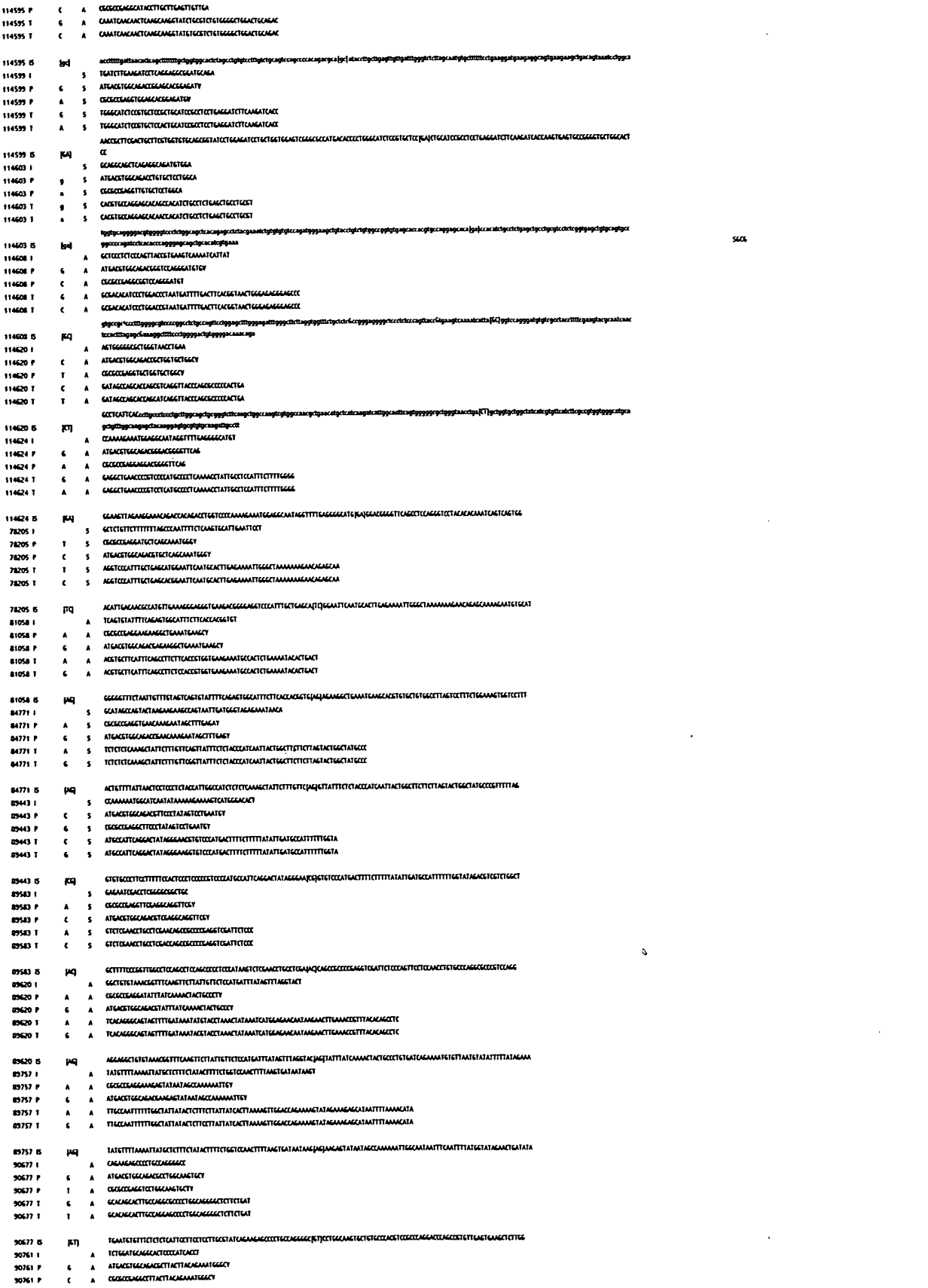
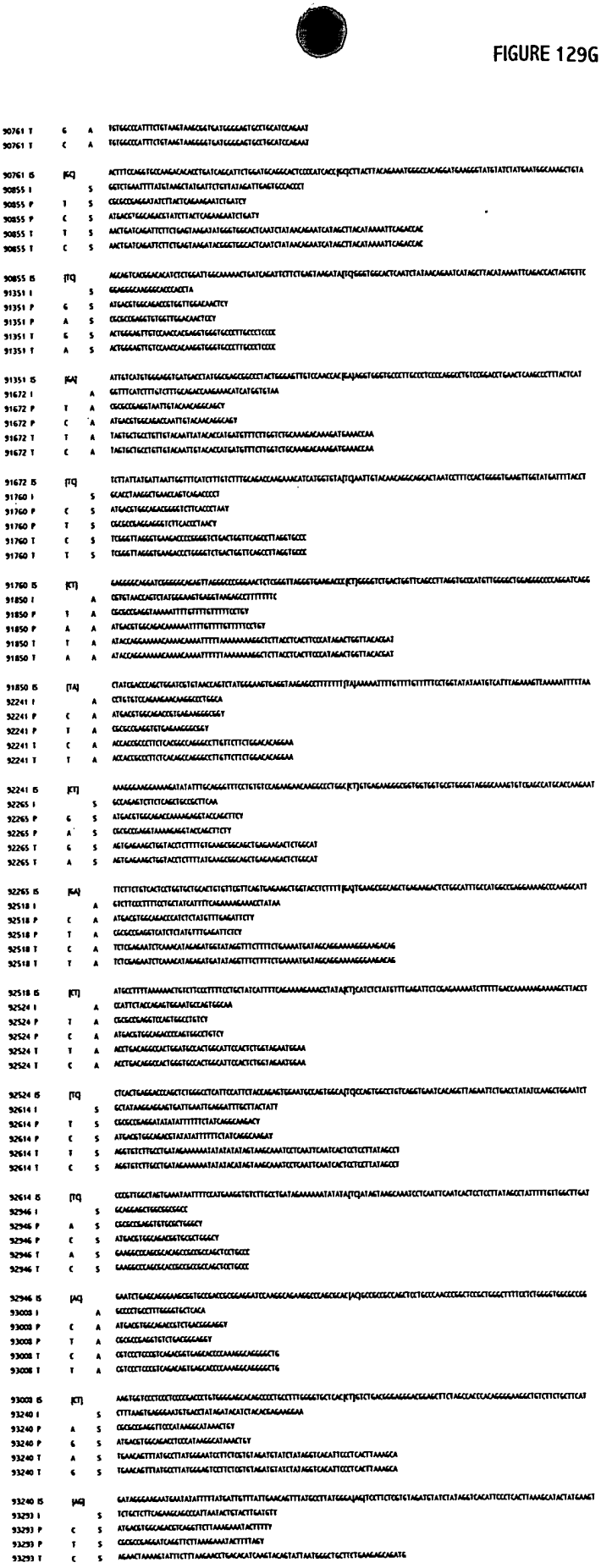
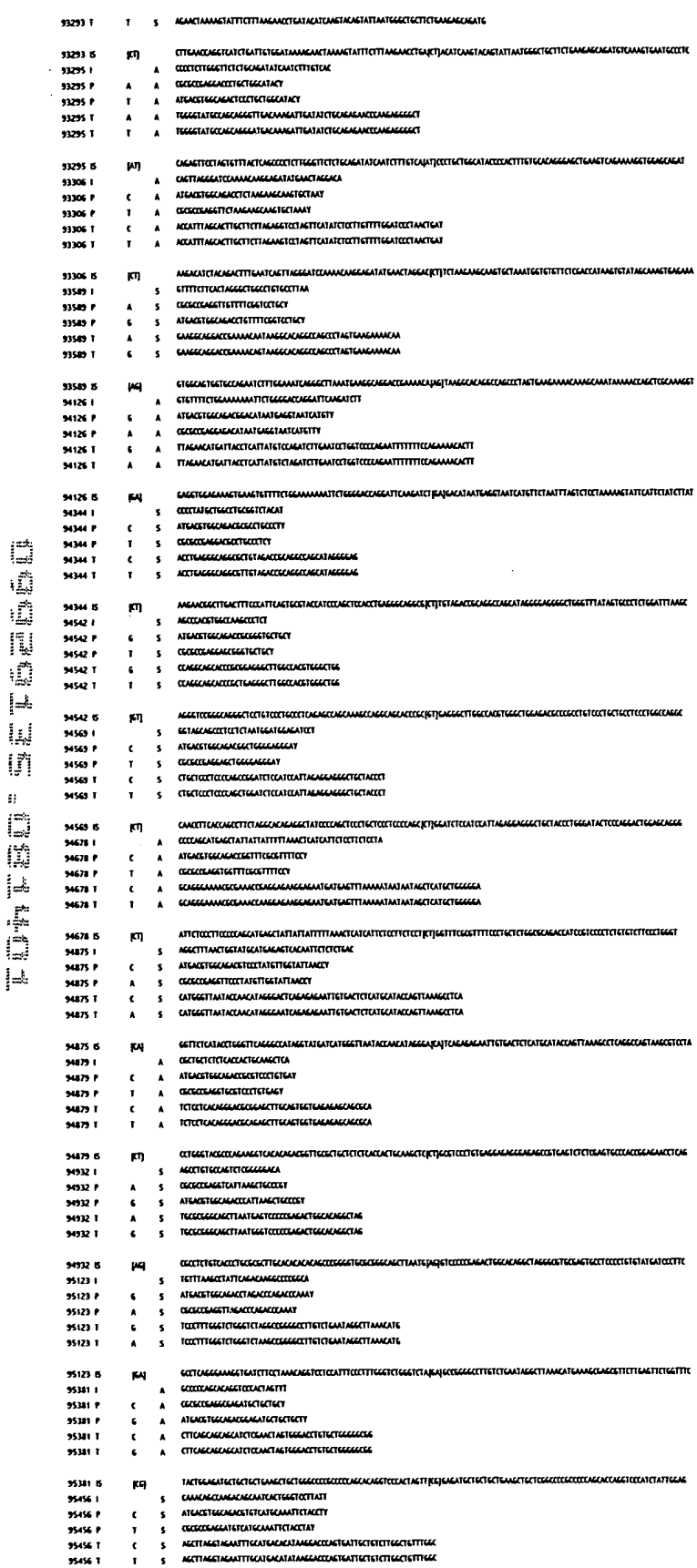


FIGURE 129G





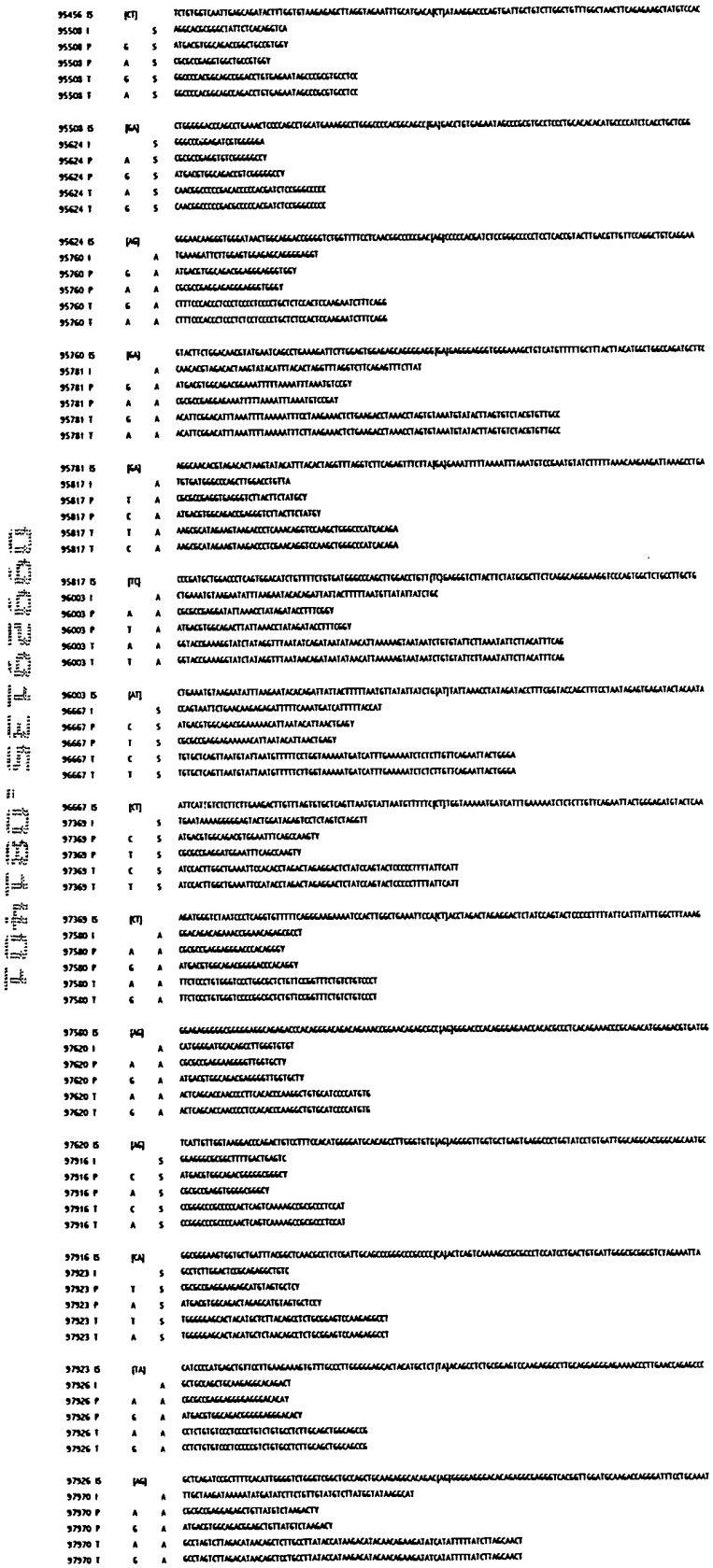
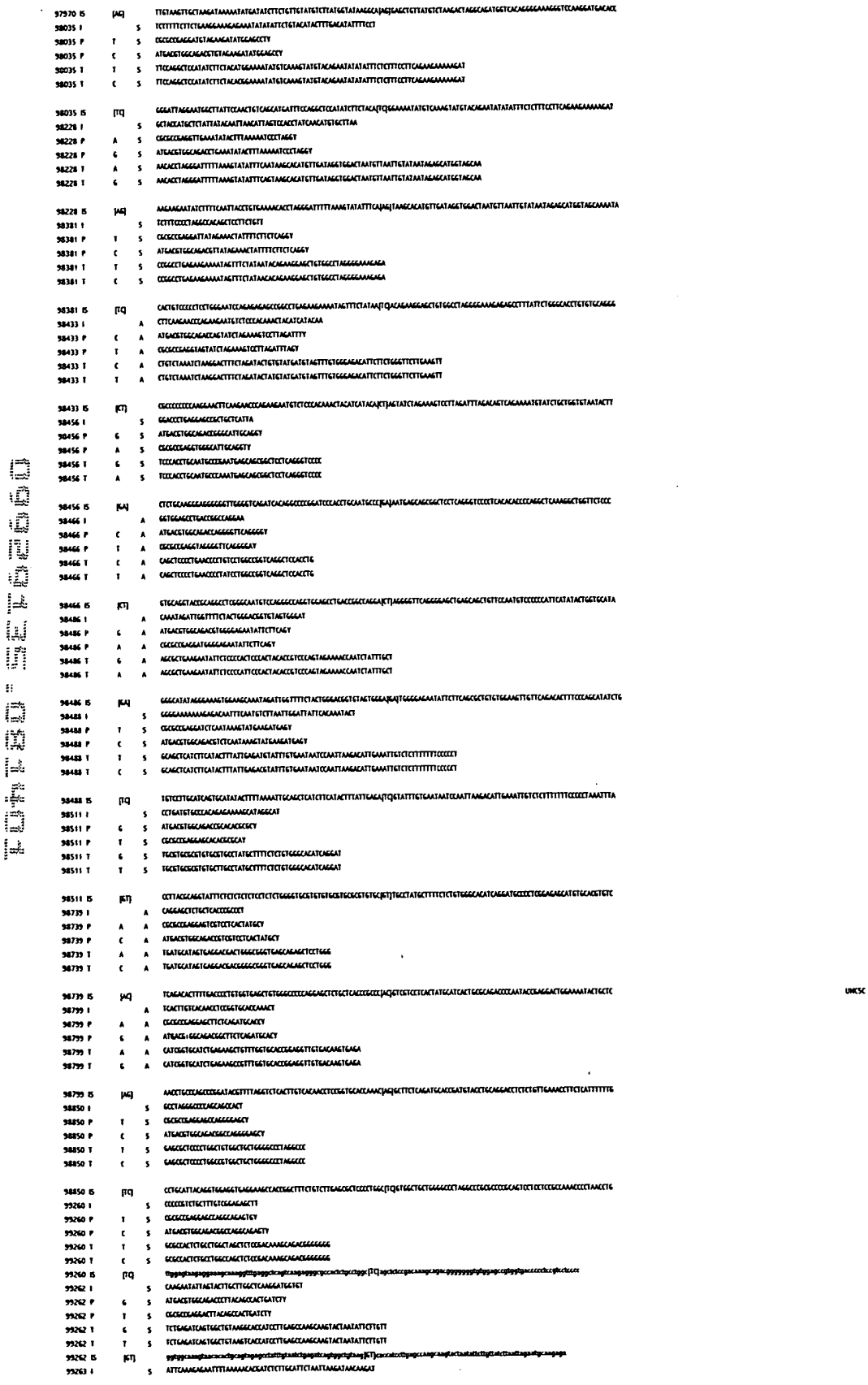
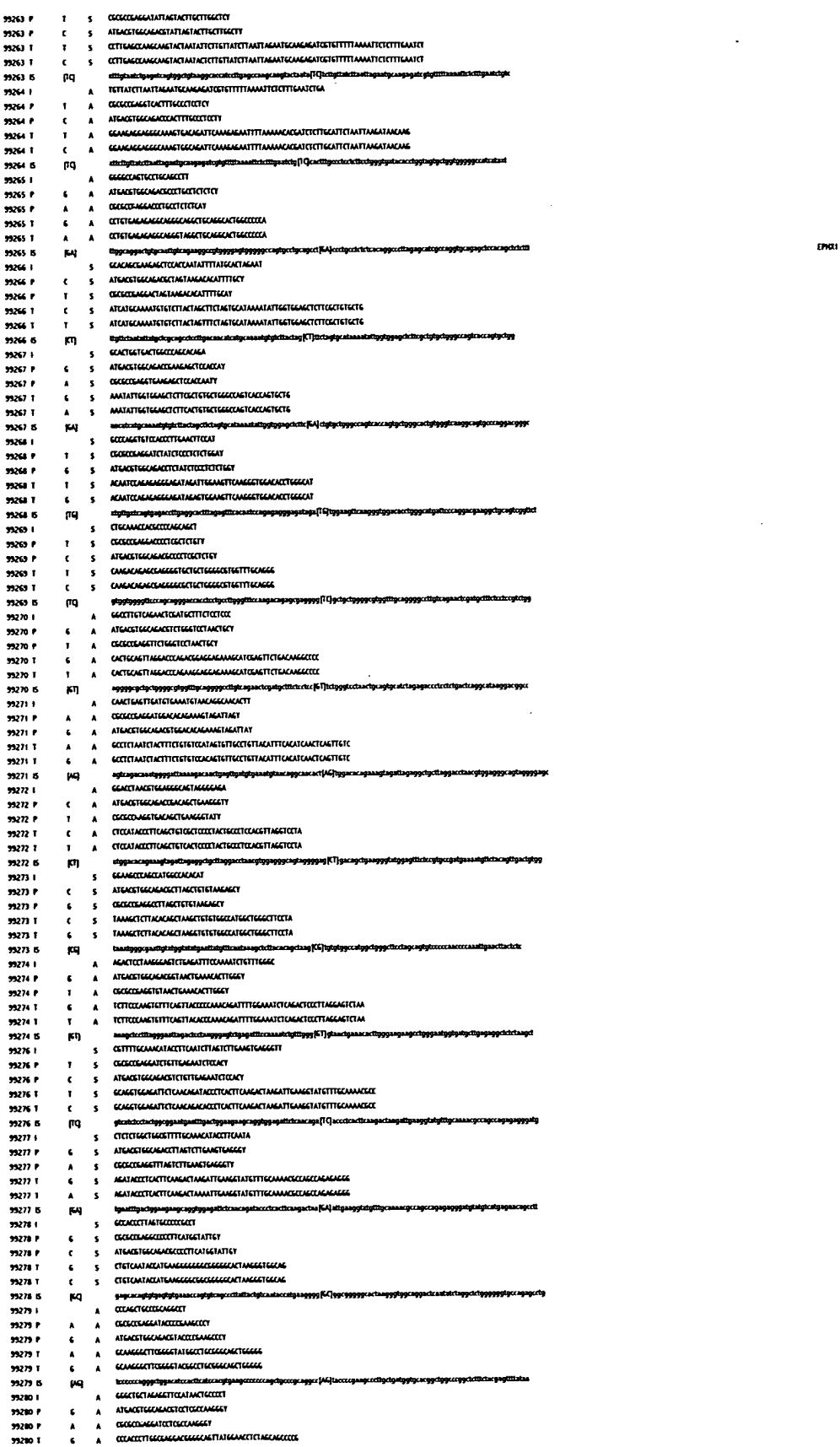


FIGURE 129G

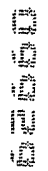


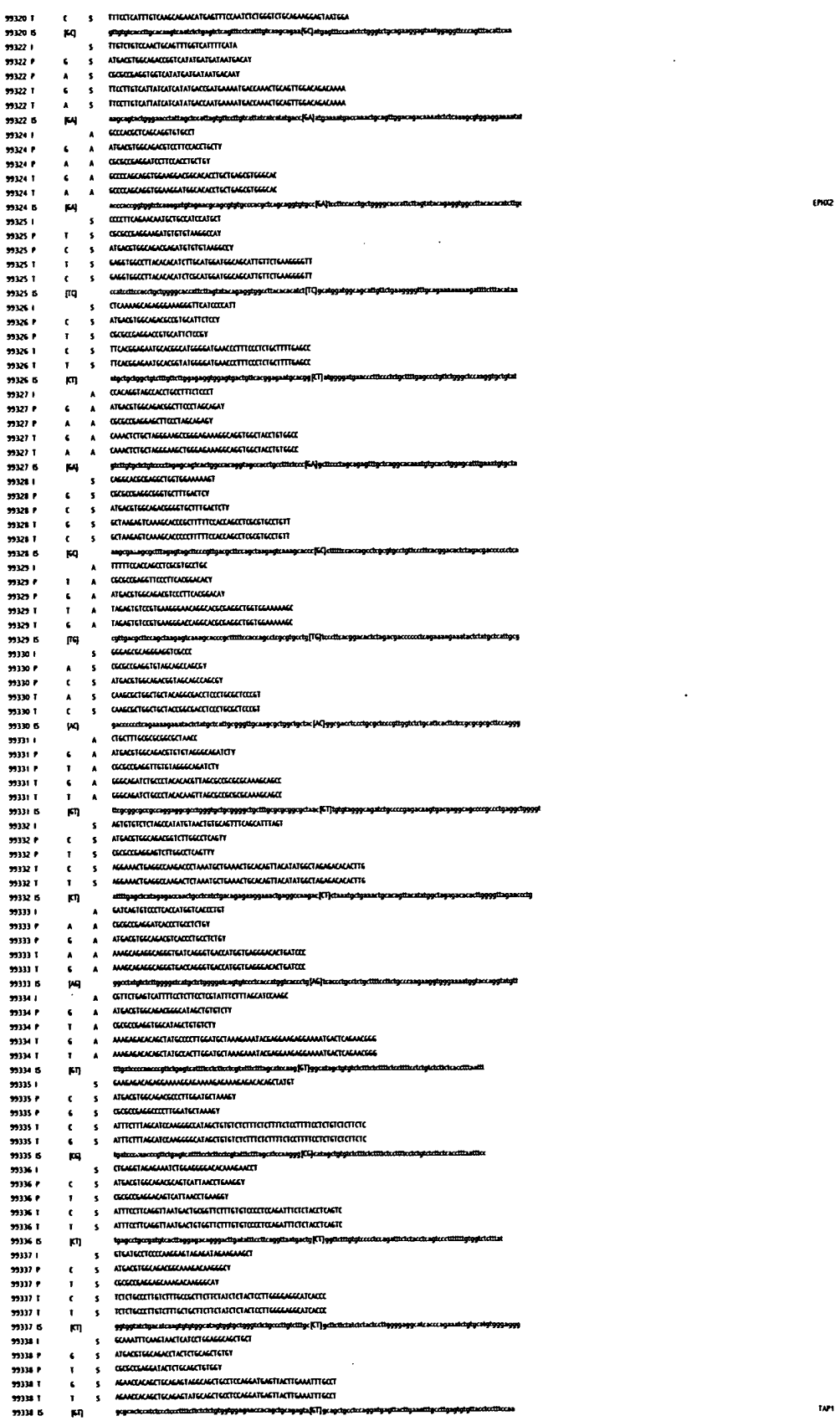


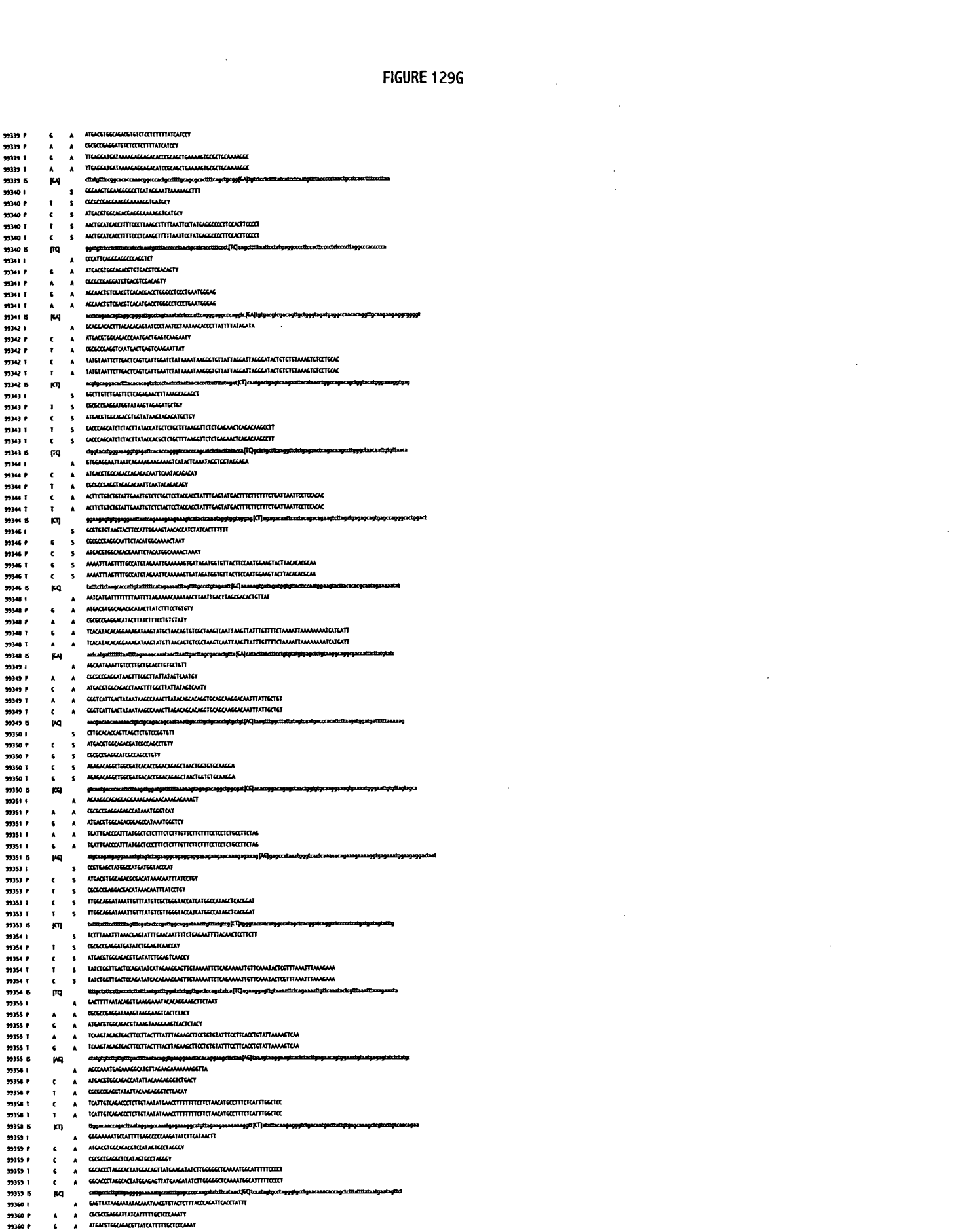




Replacement Sheet







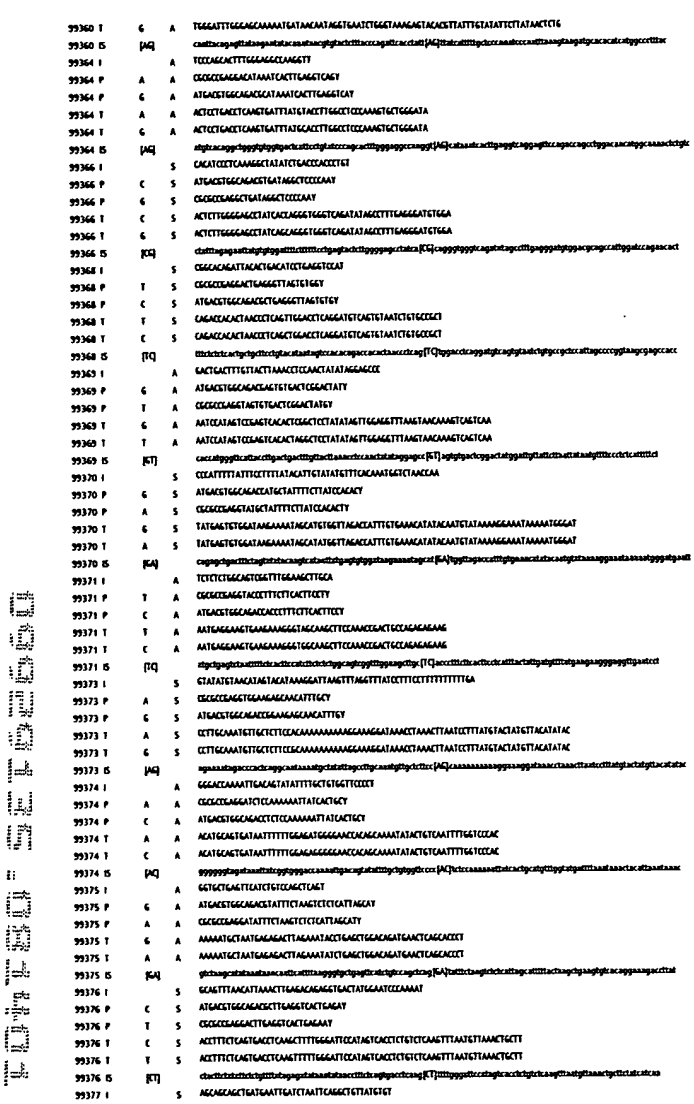
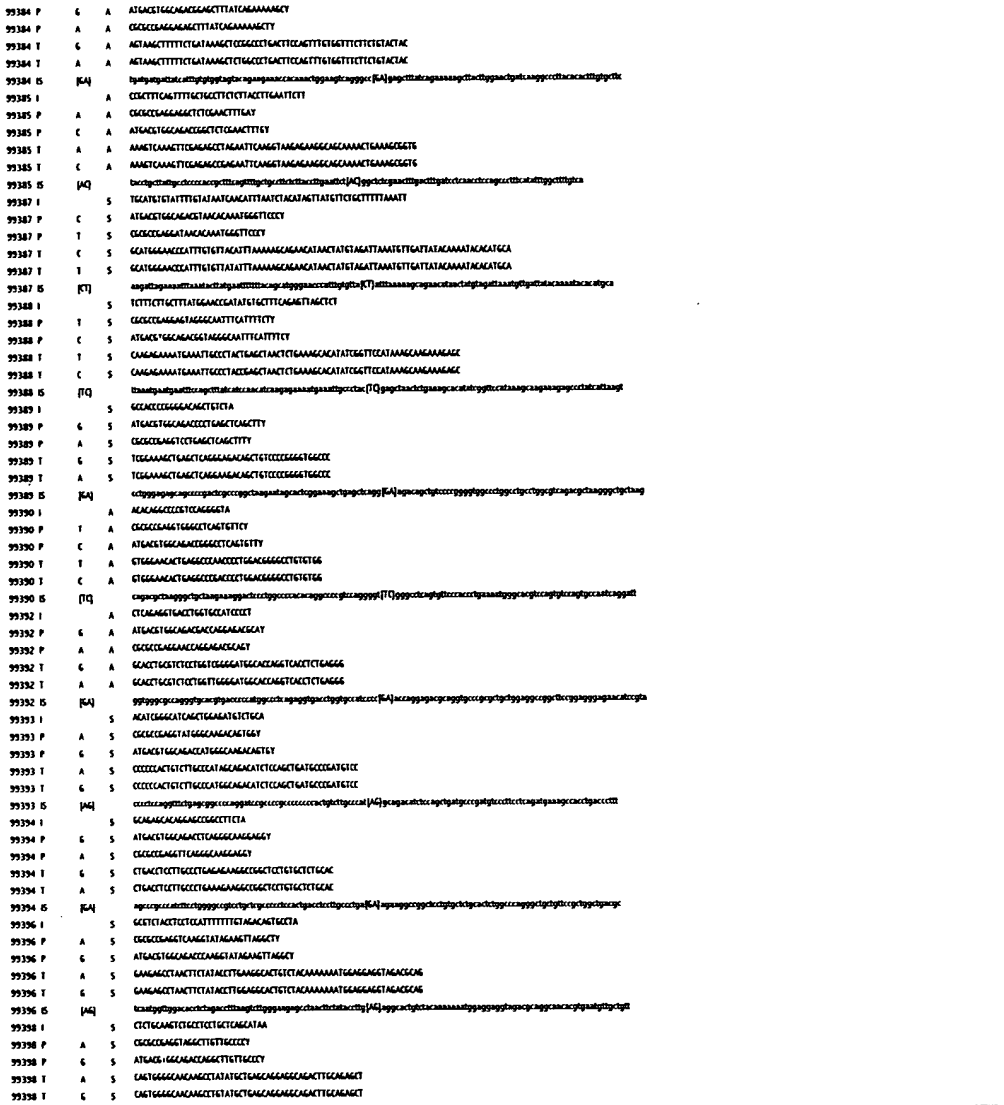
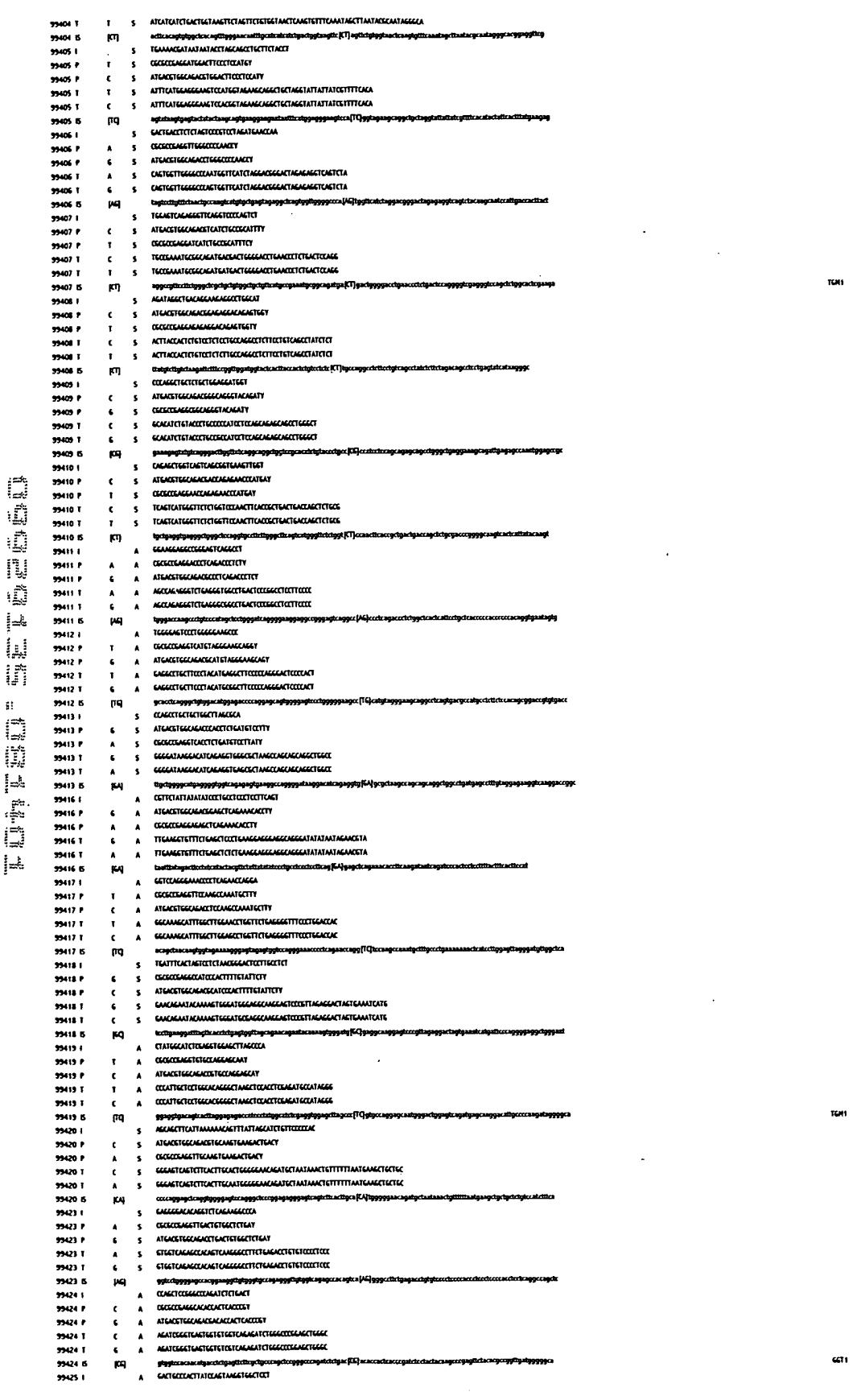


FIGURE 129G









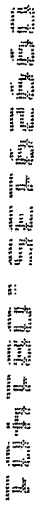
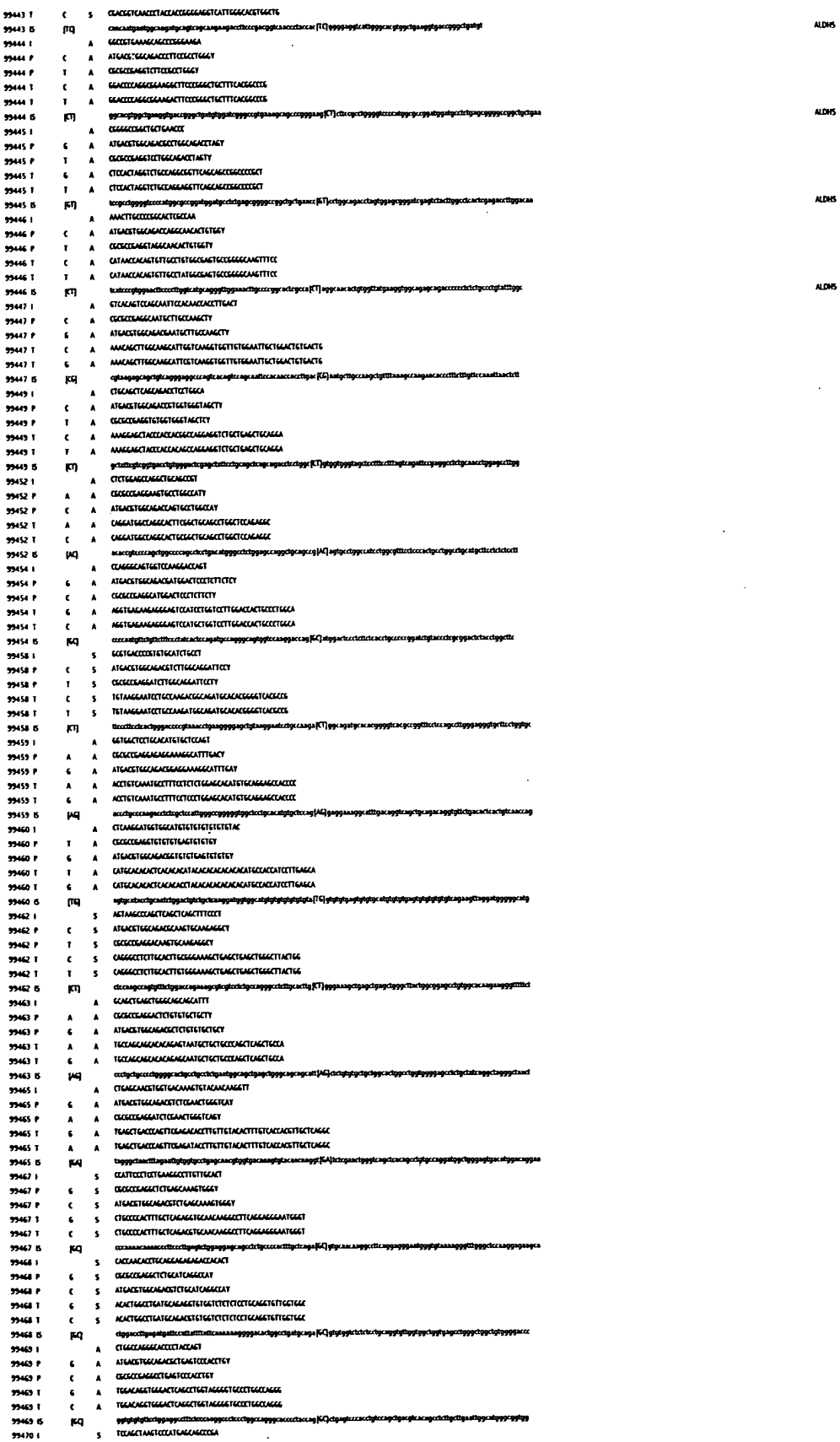
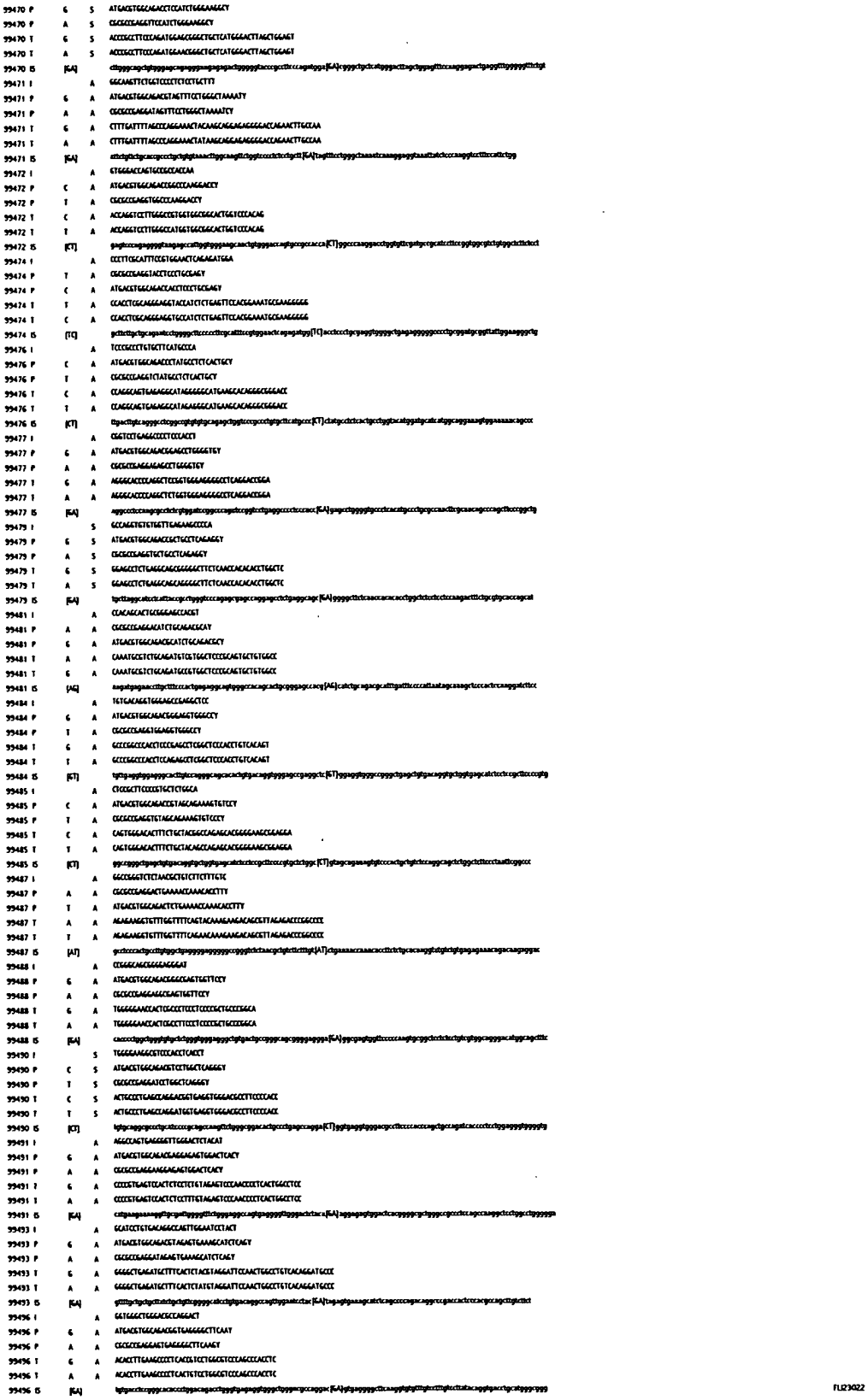
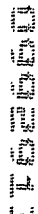
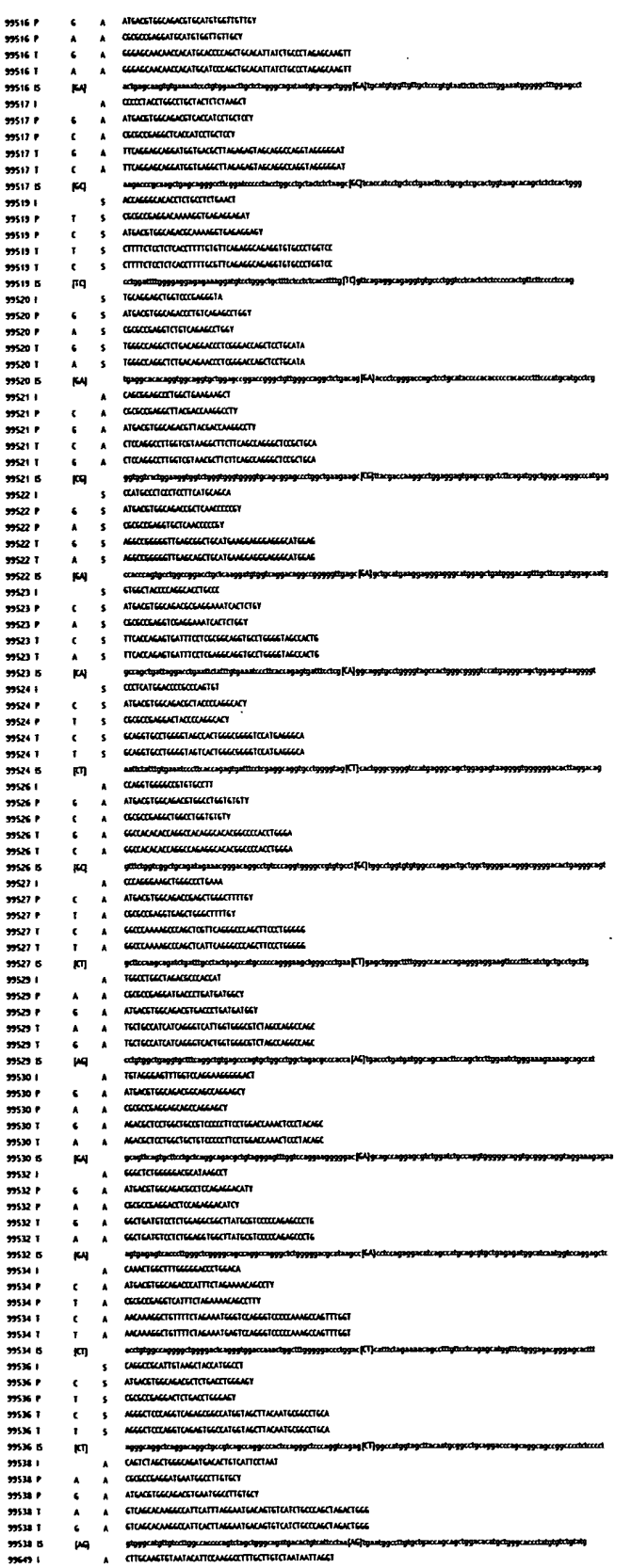


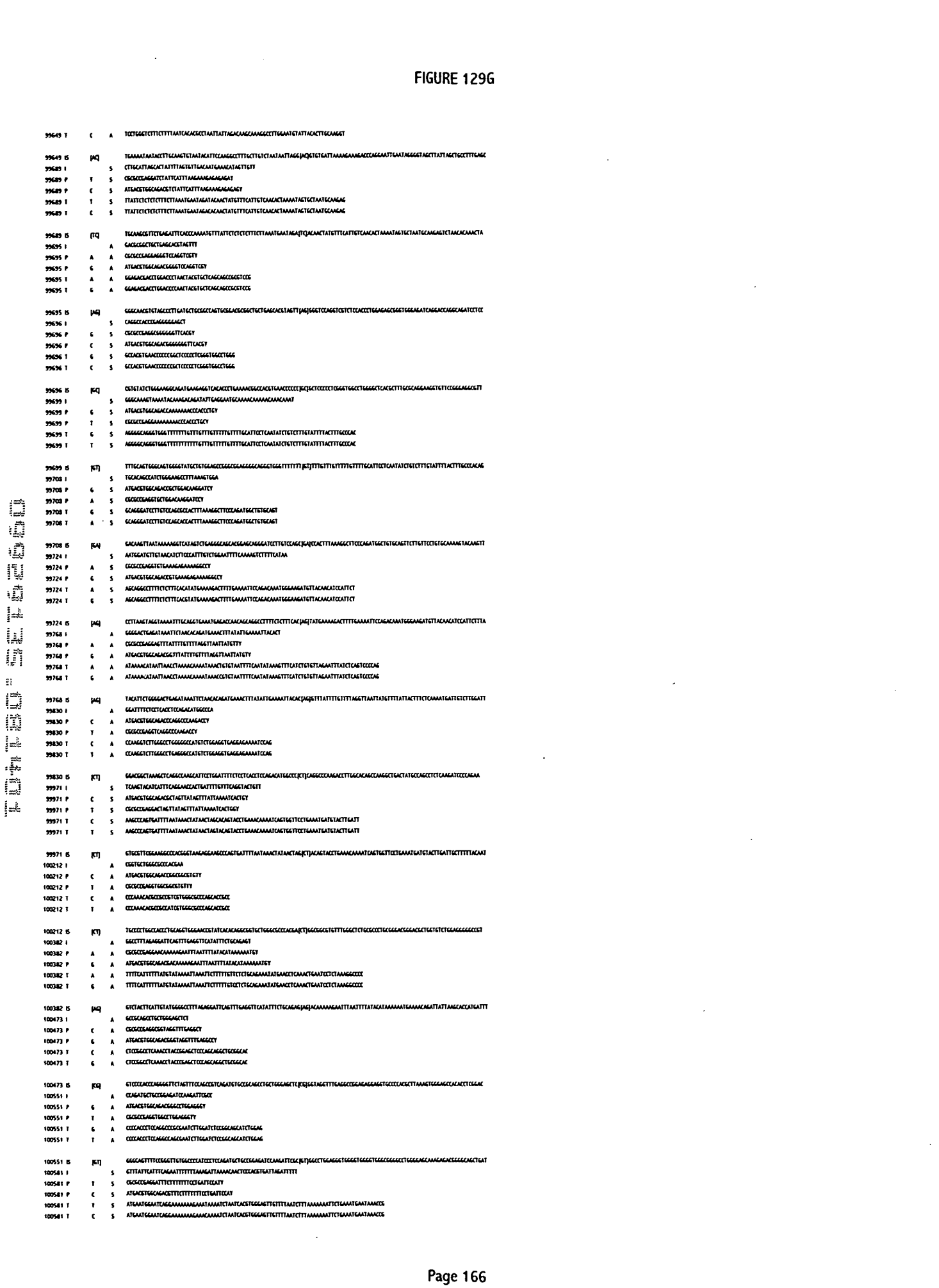
FIGURE 129G

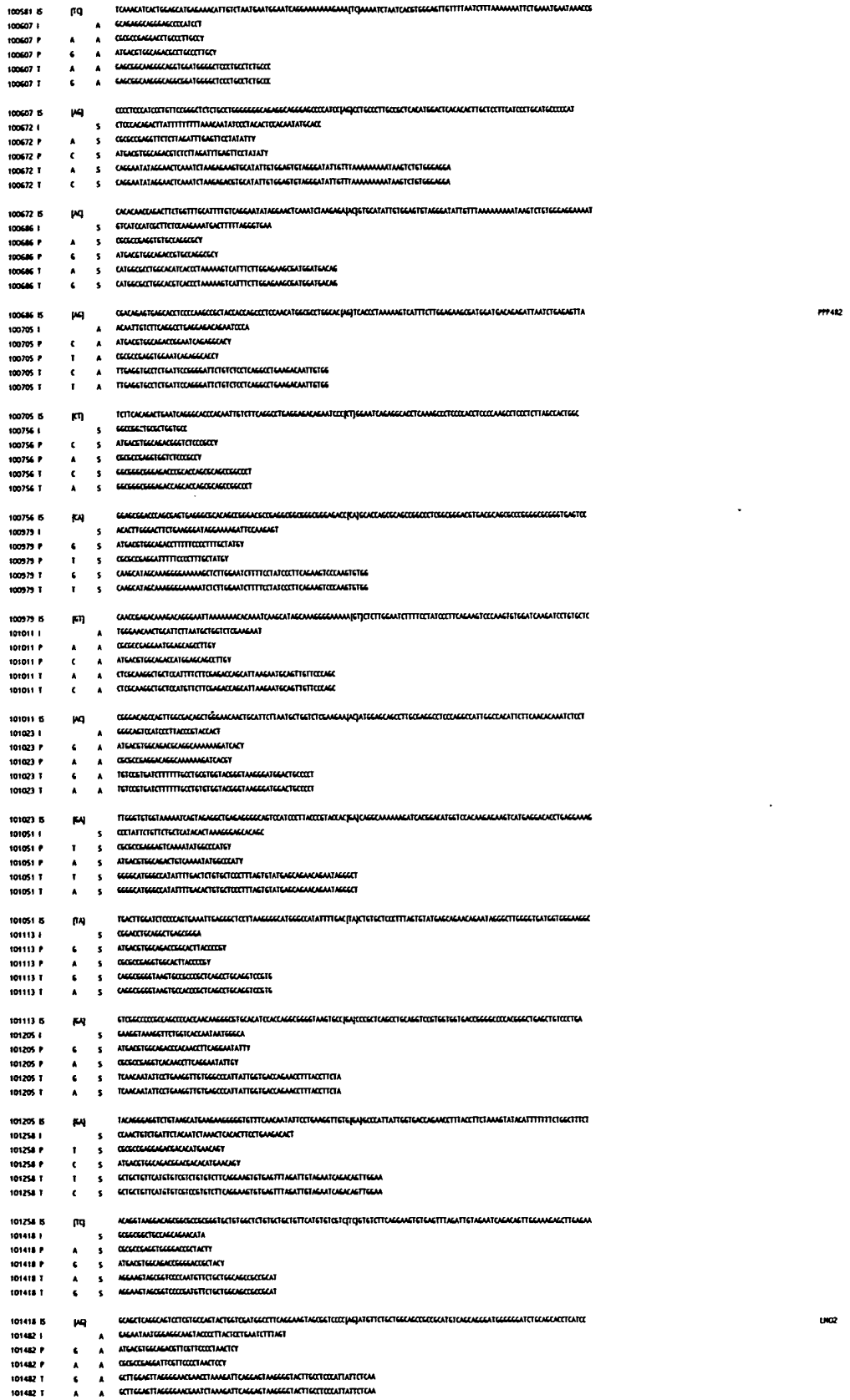






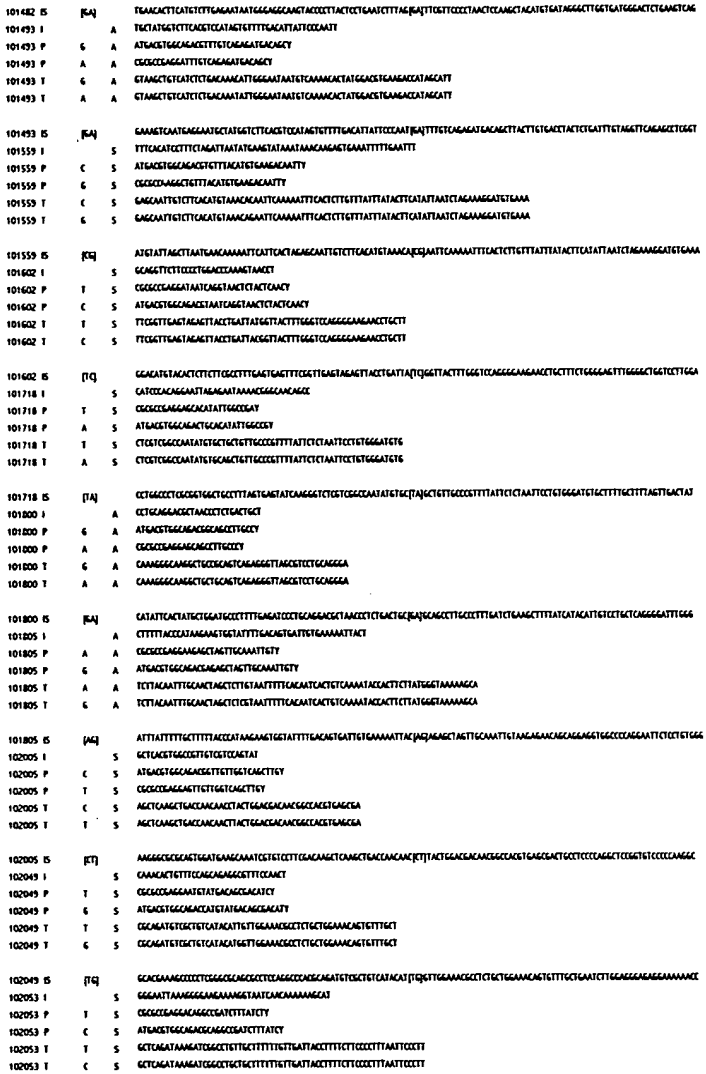






Type II DNA polymerase

FIGURE 129G



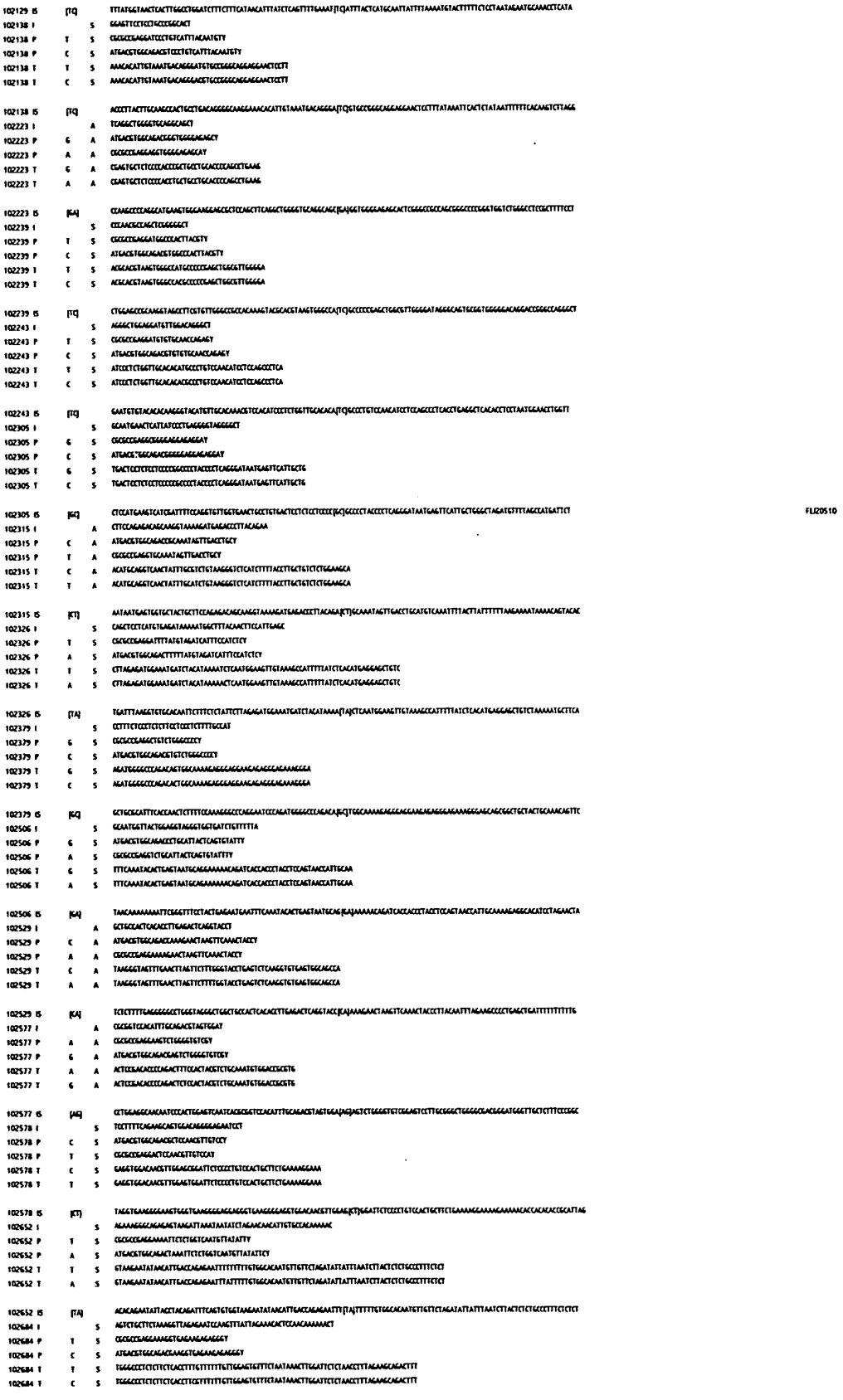


FIGURE 129G

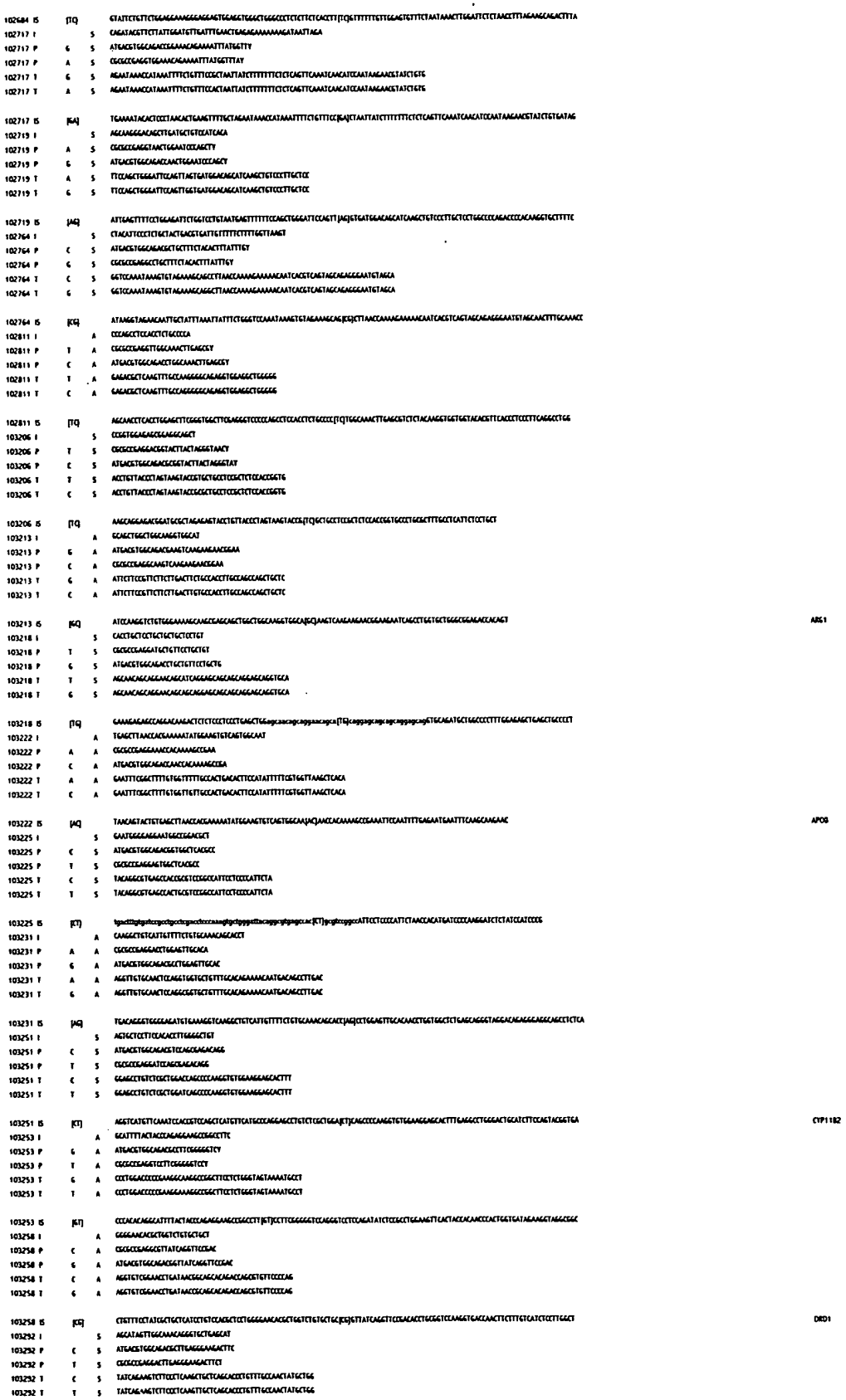
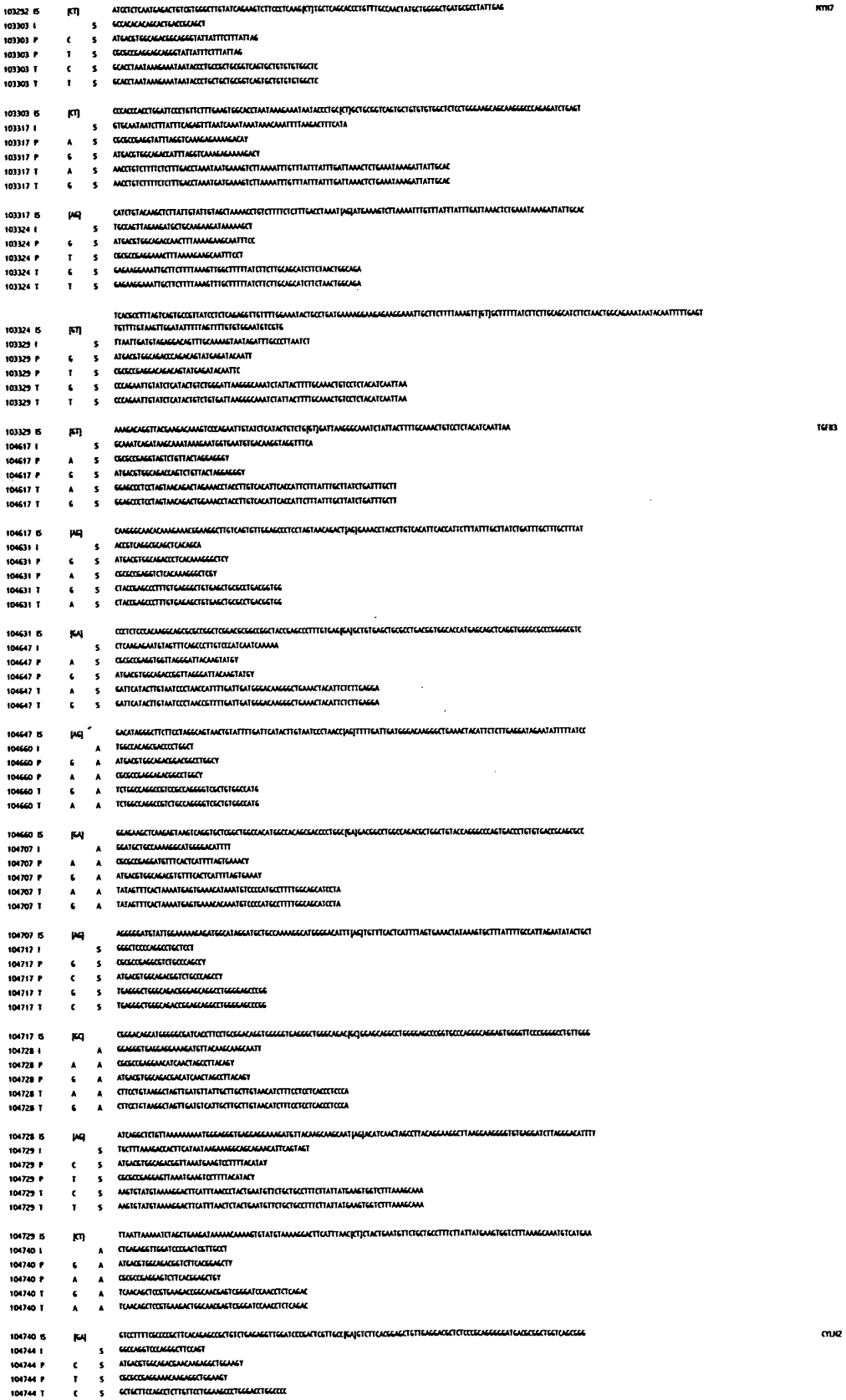


FIGURE 129G



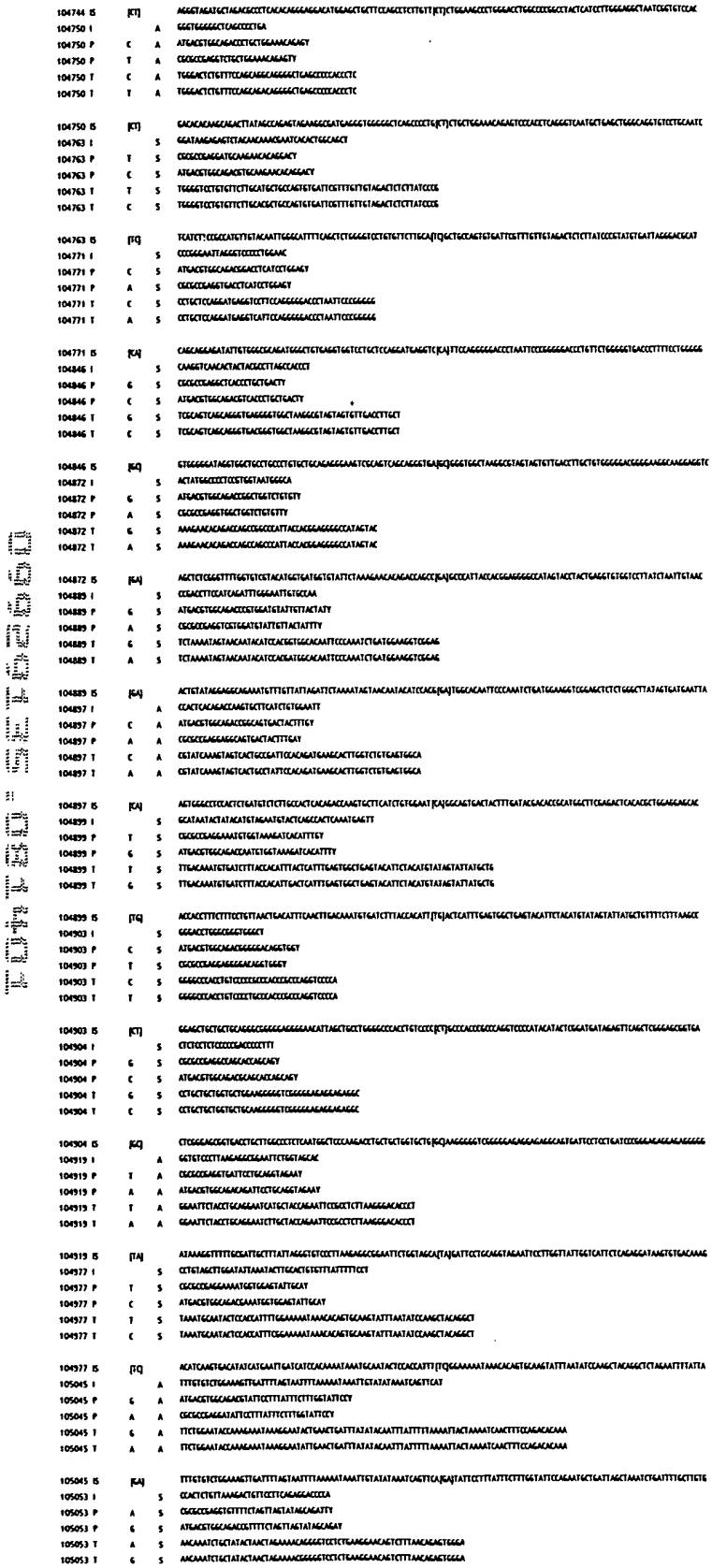


FIGURE 129G

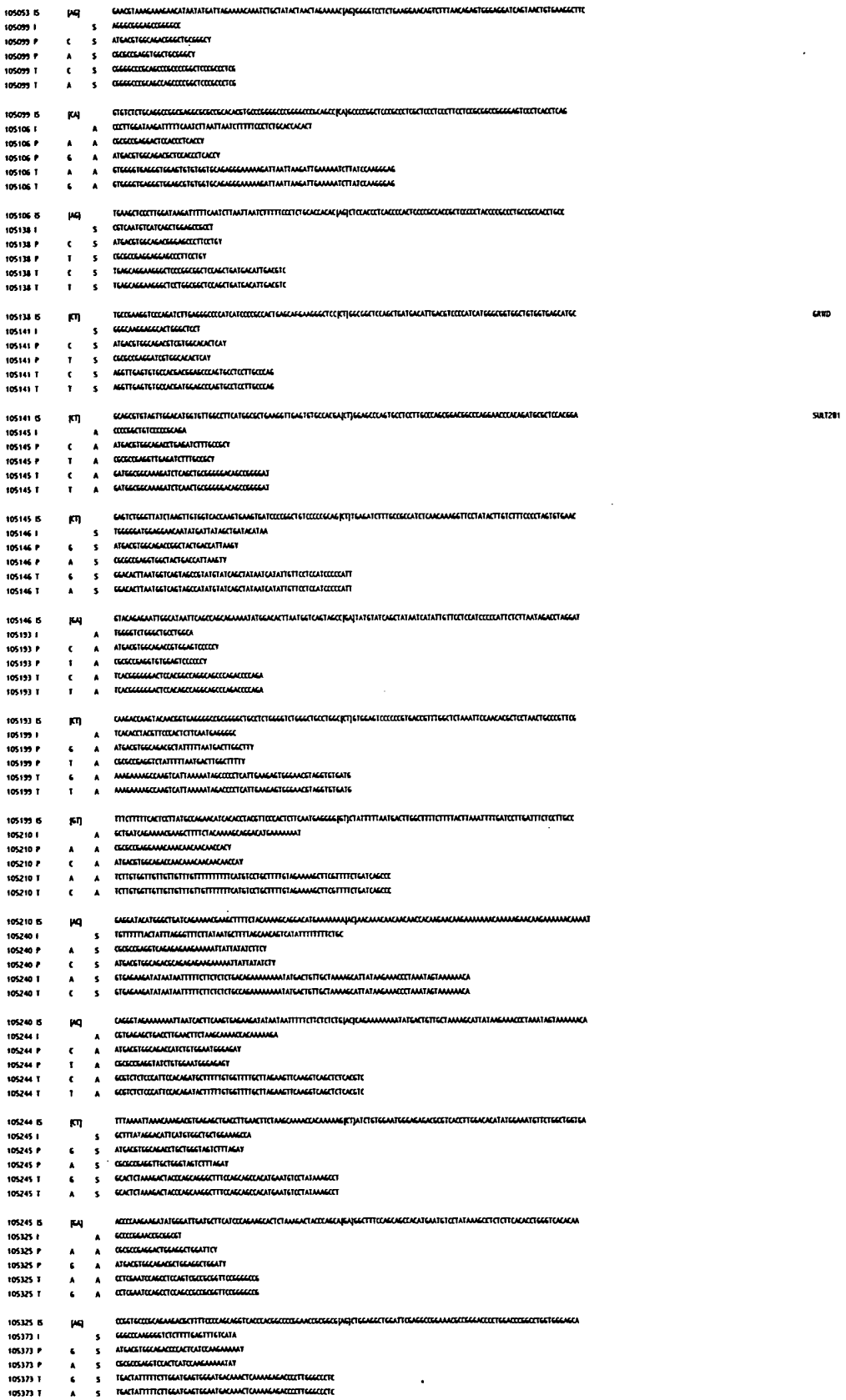


FIGURE 129G

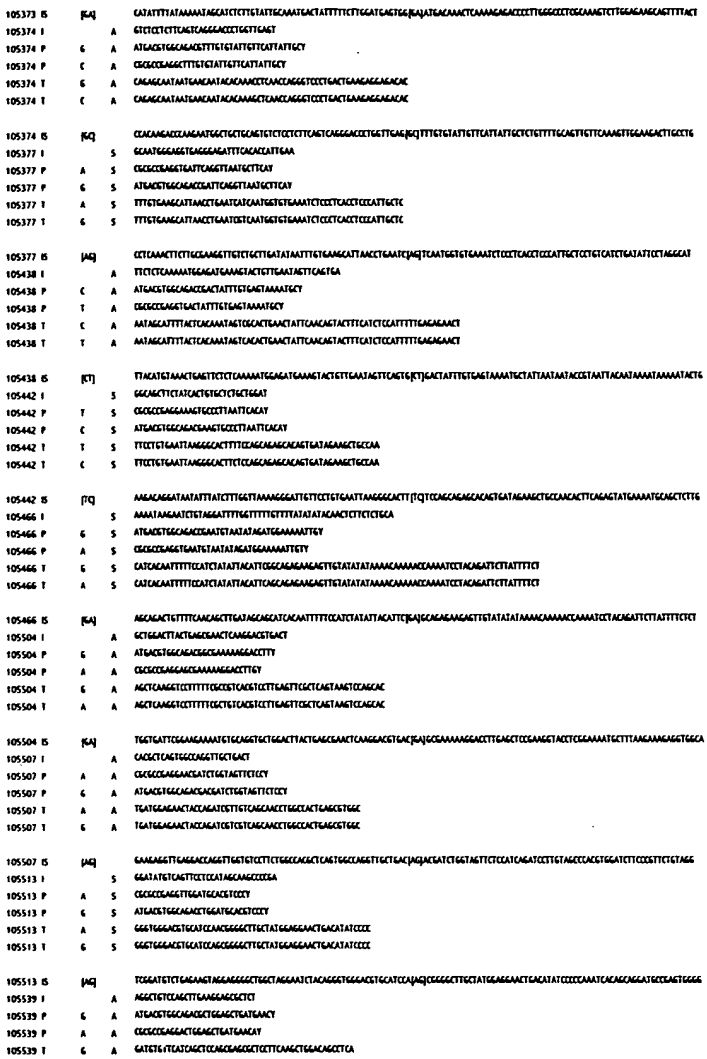
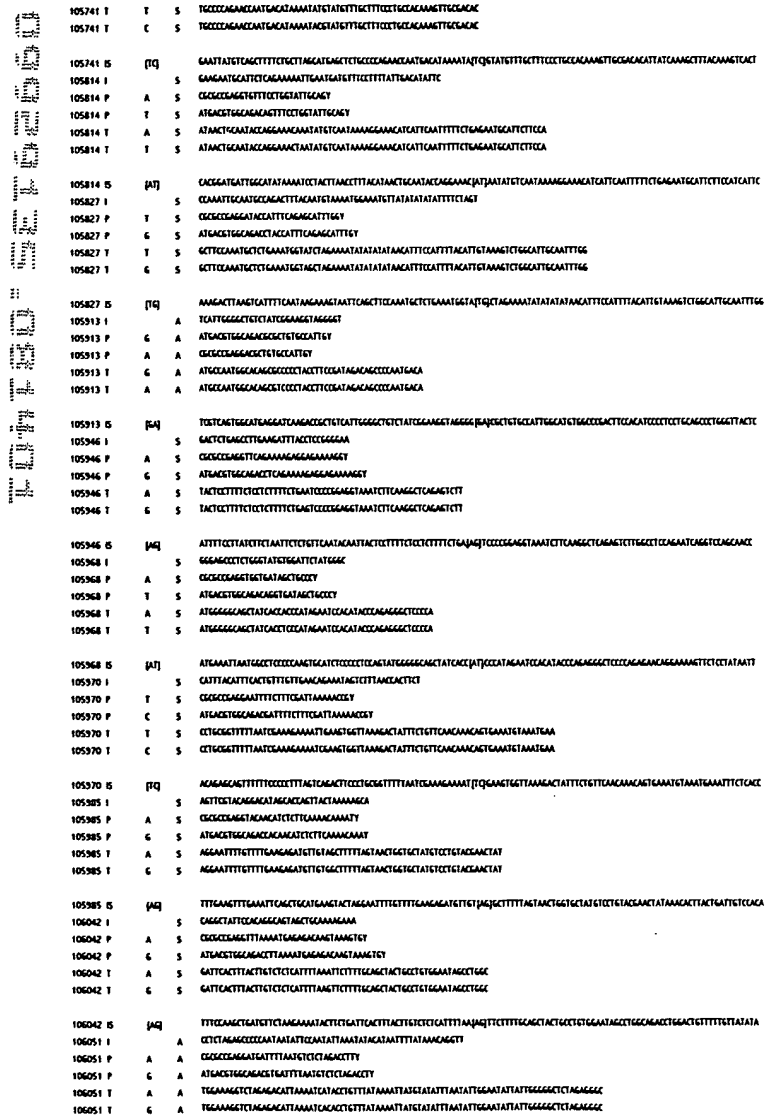


FIGURE 129G



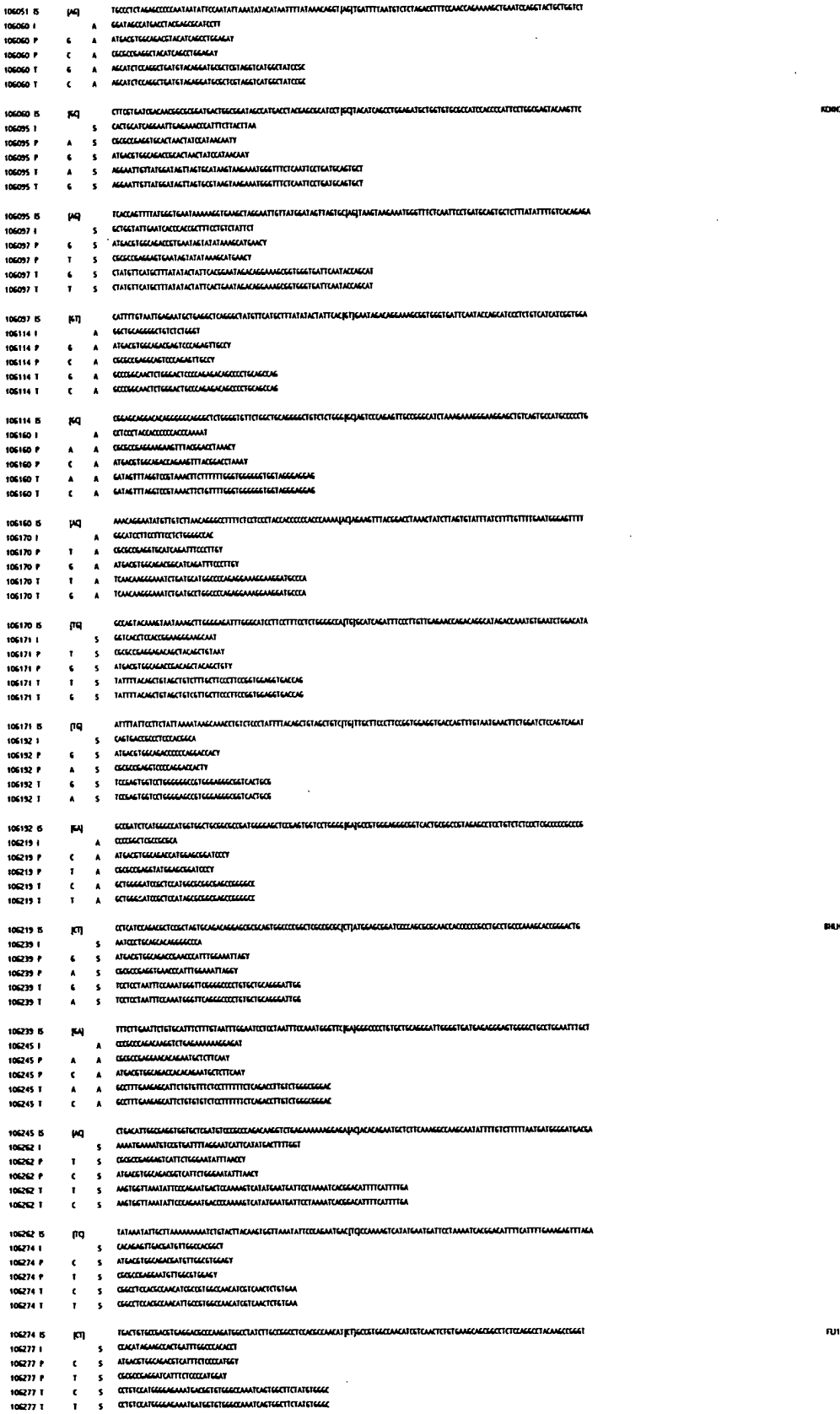
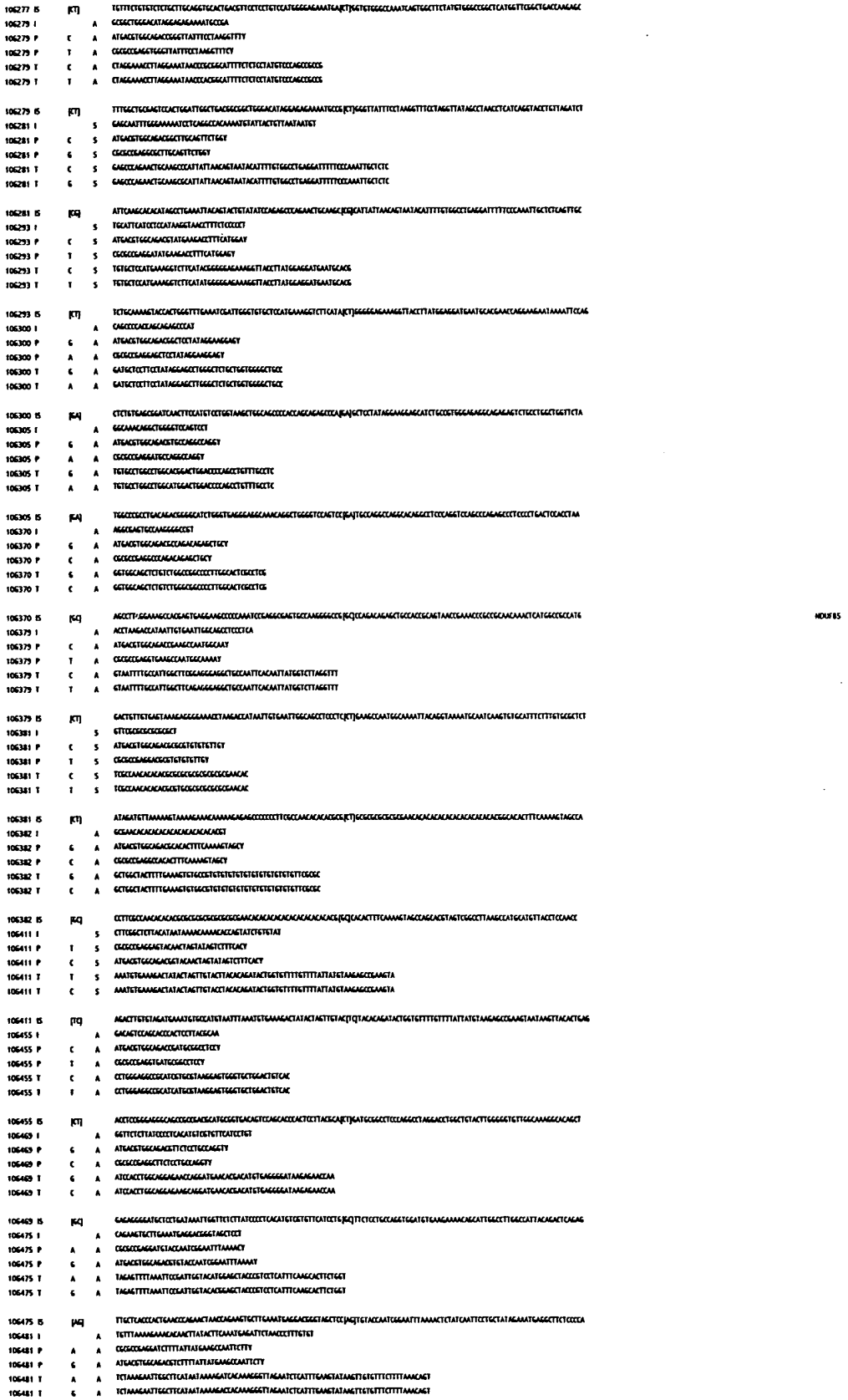


FIGURE 129G



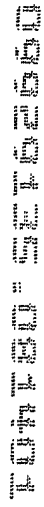


FIGURE 129G

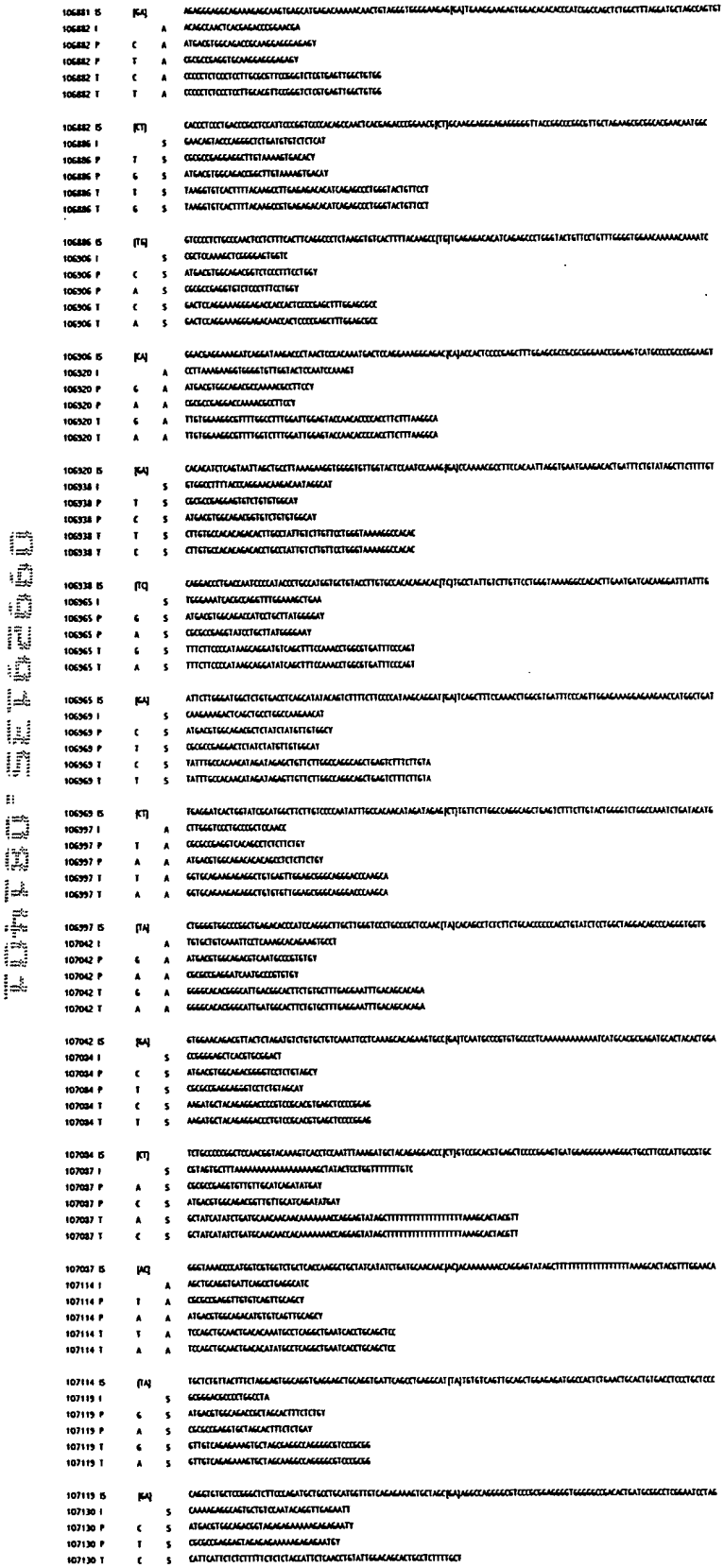
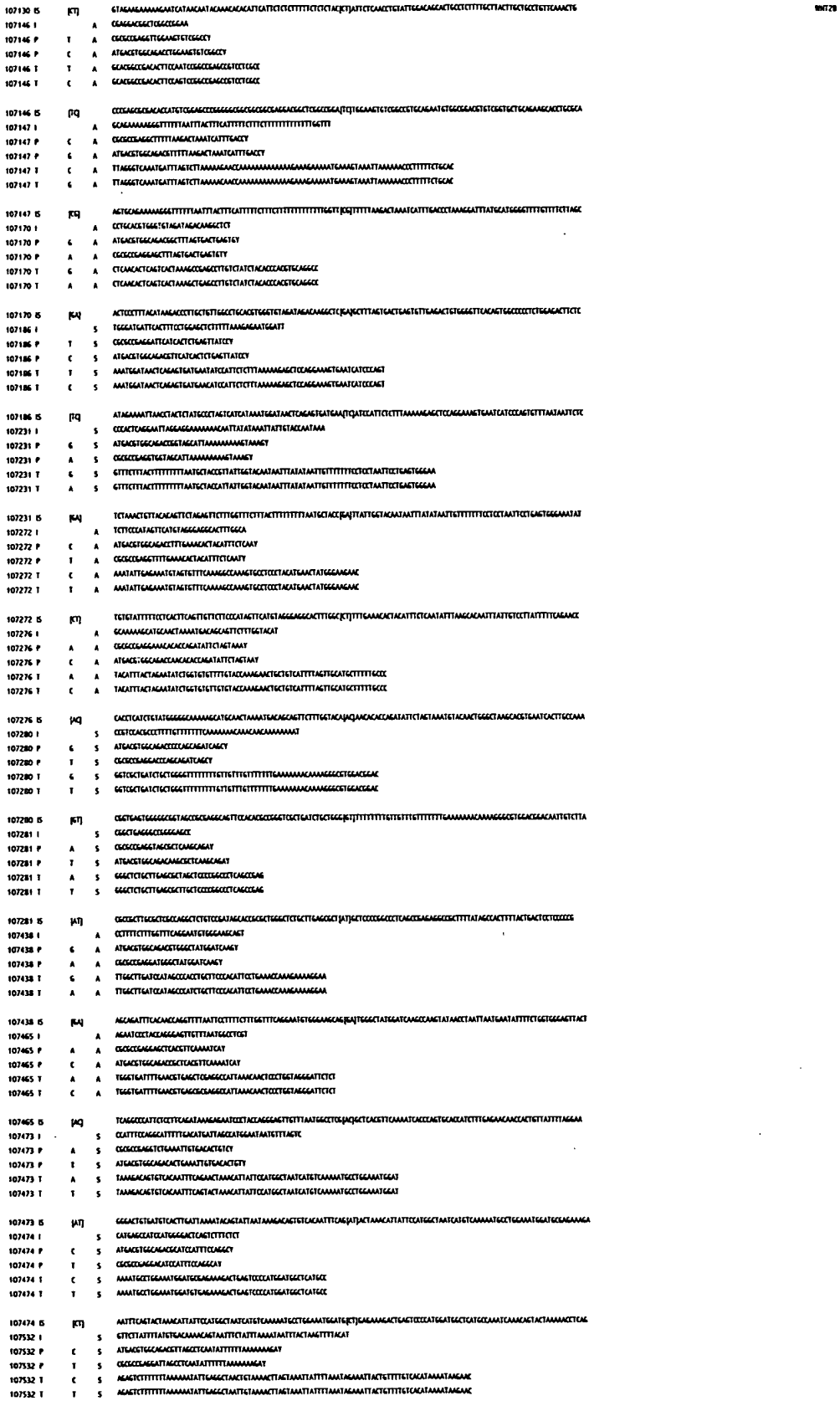
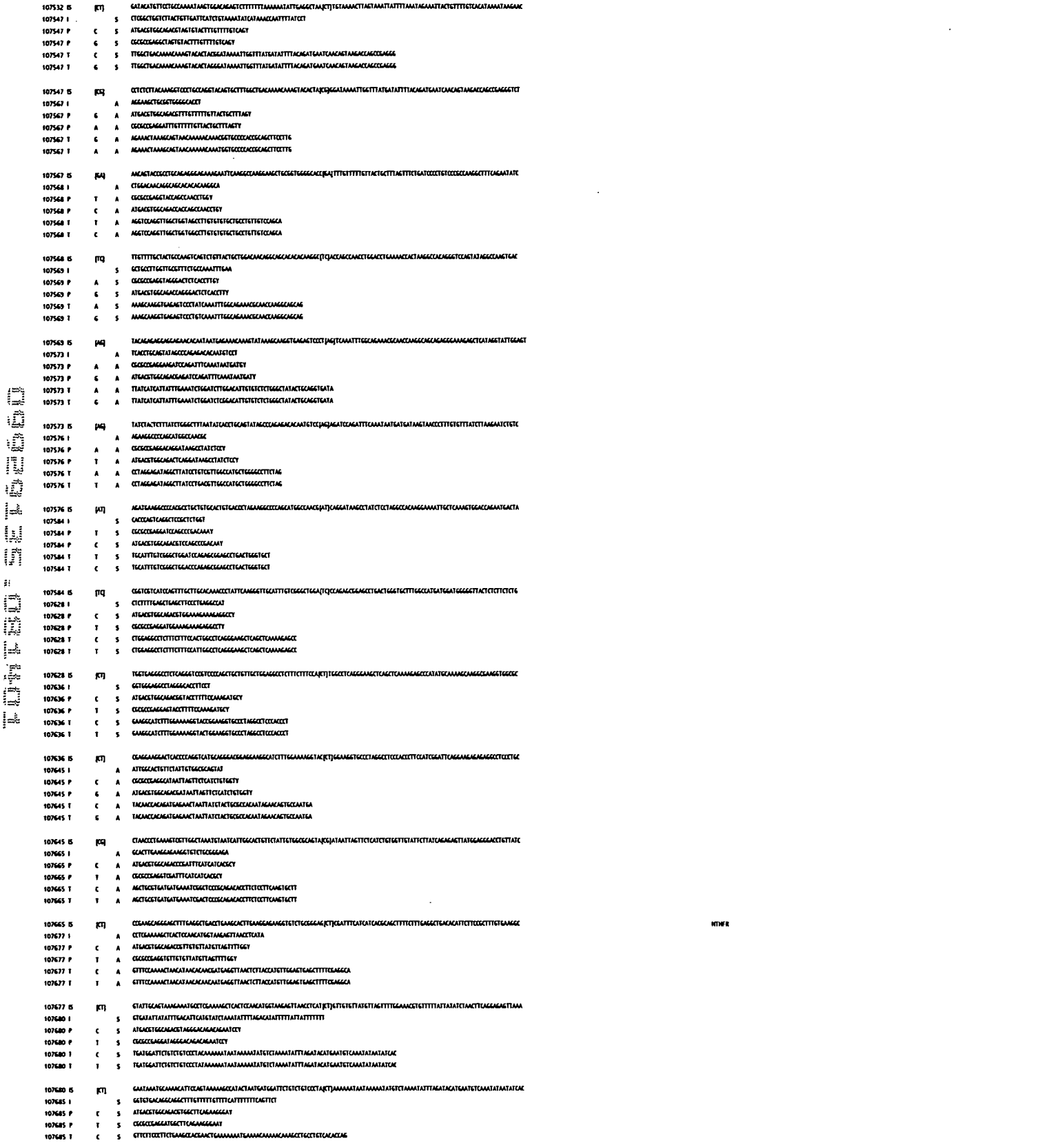


FIGURE 129G









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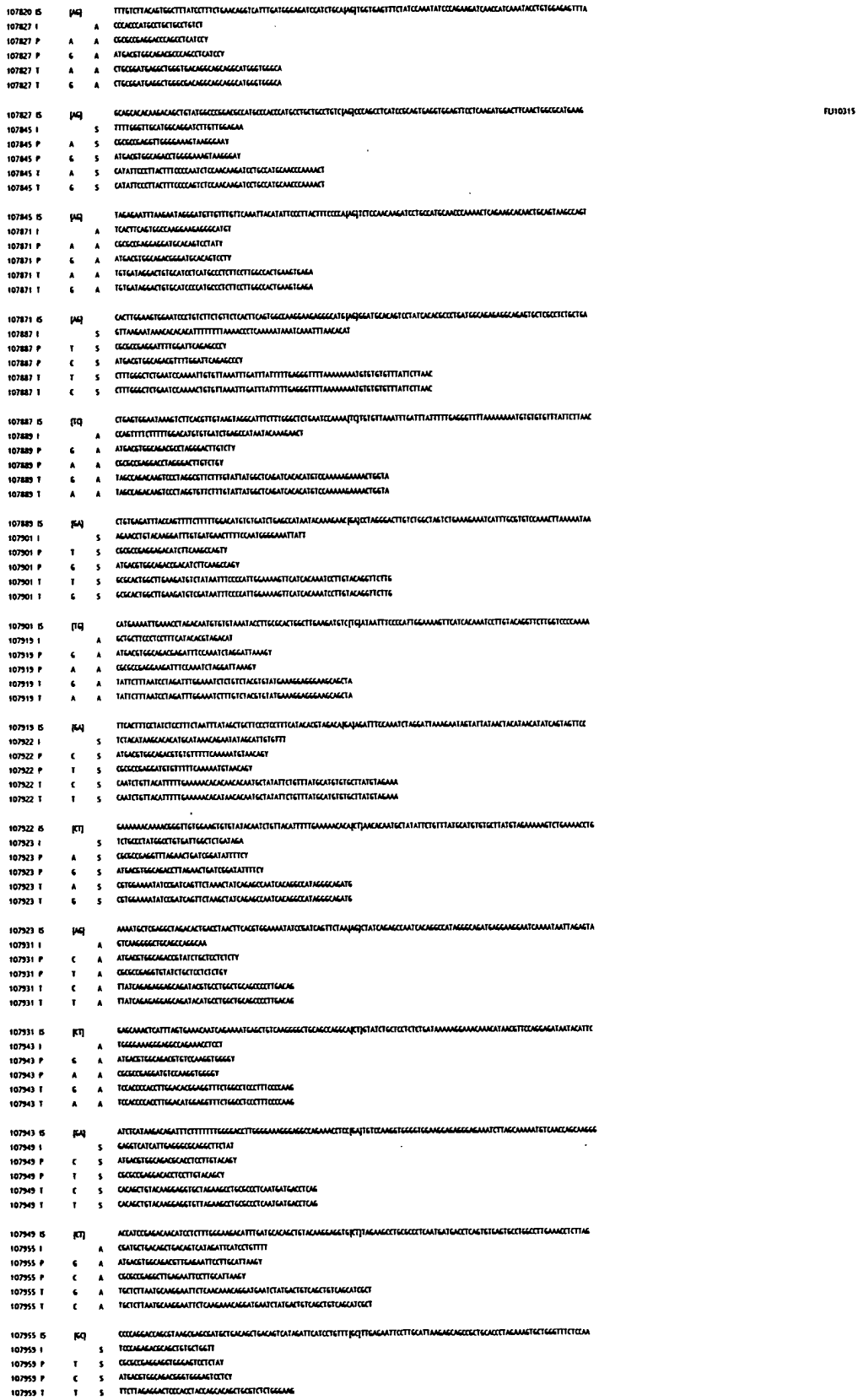
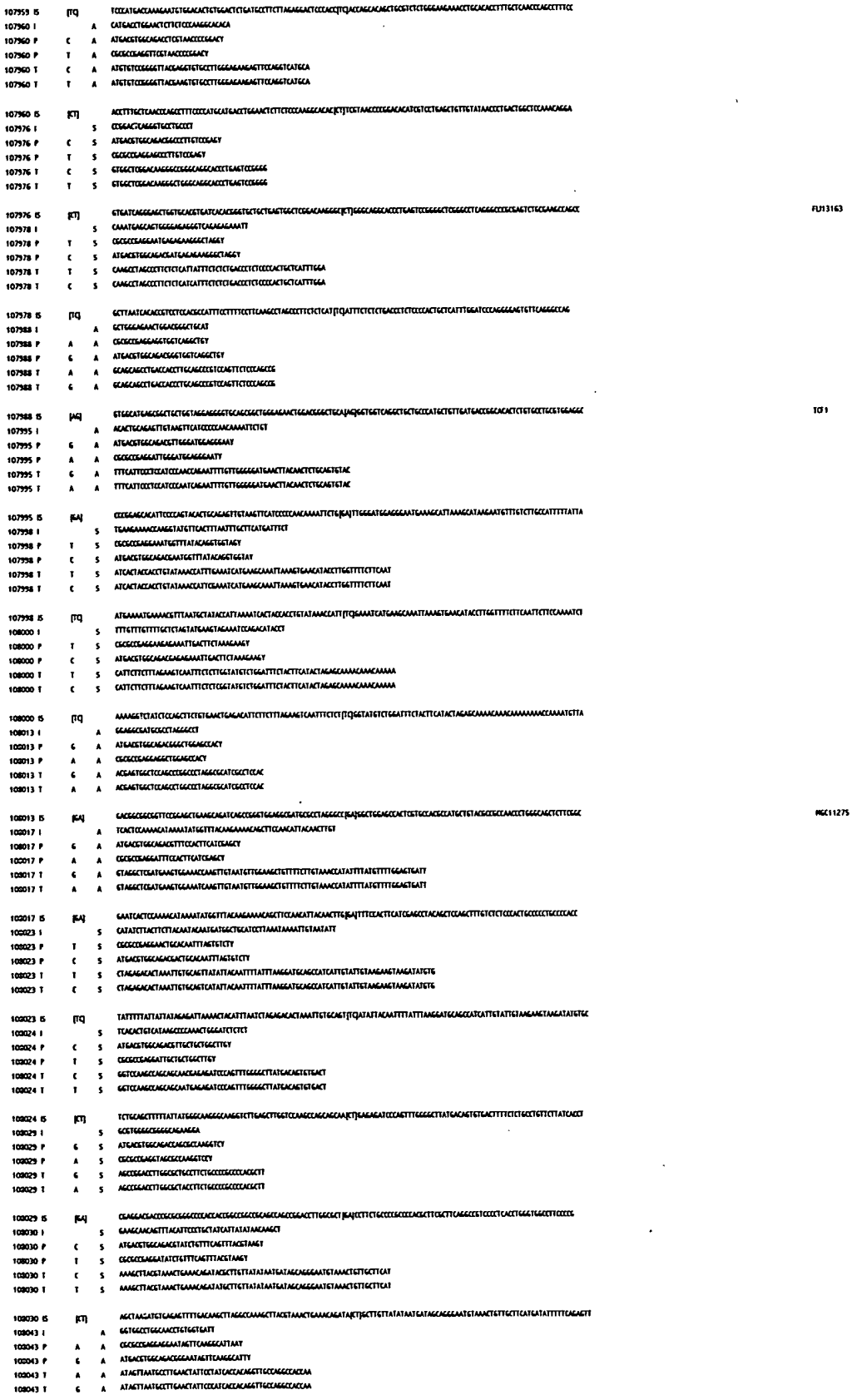
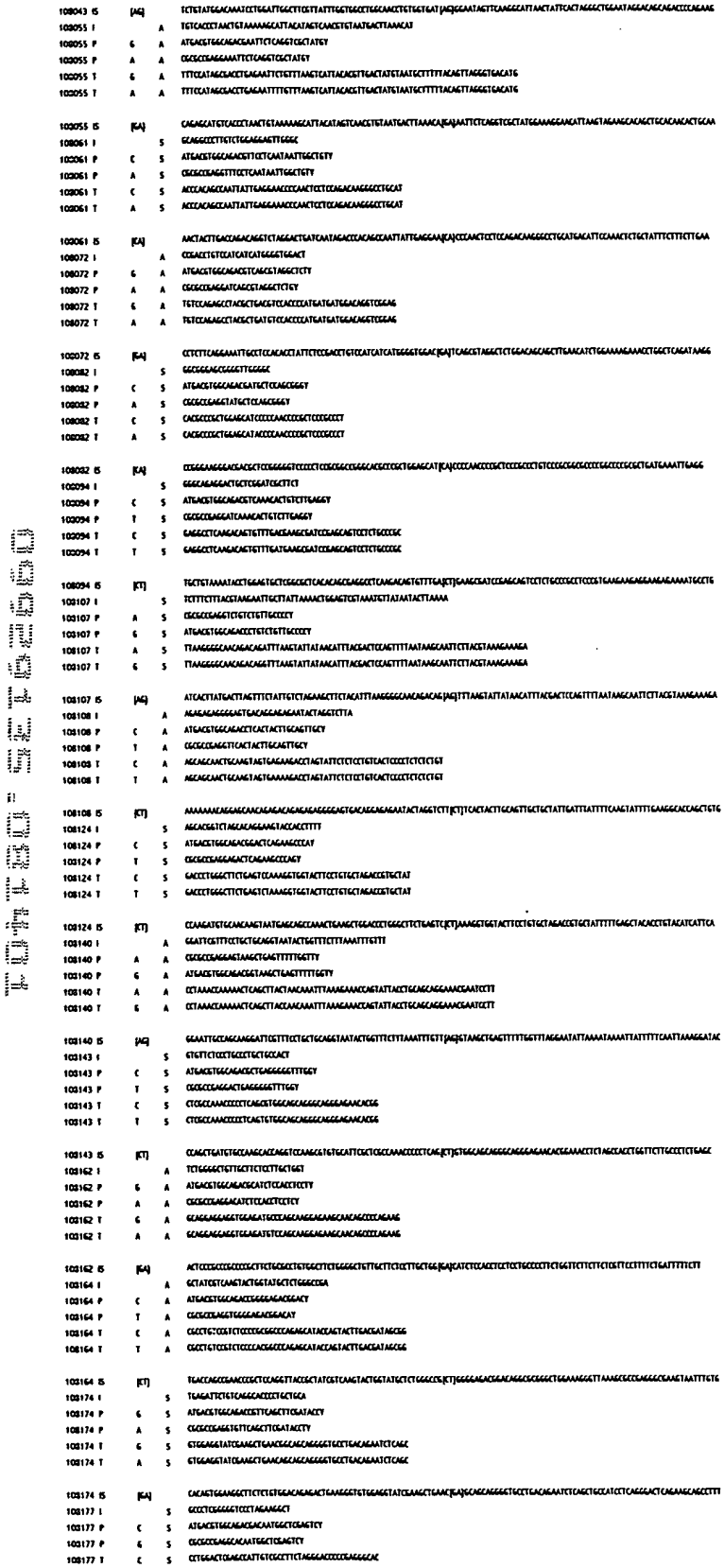
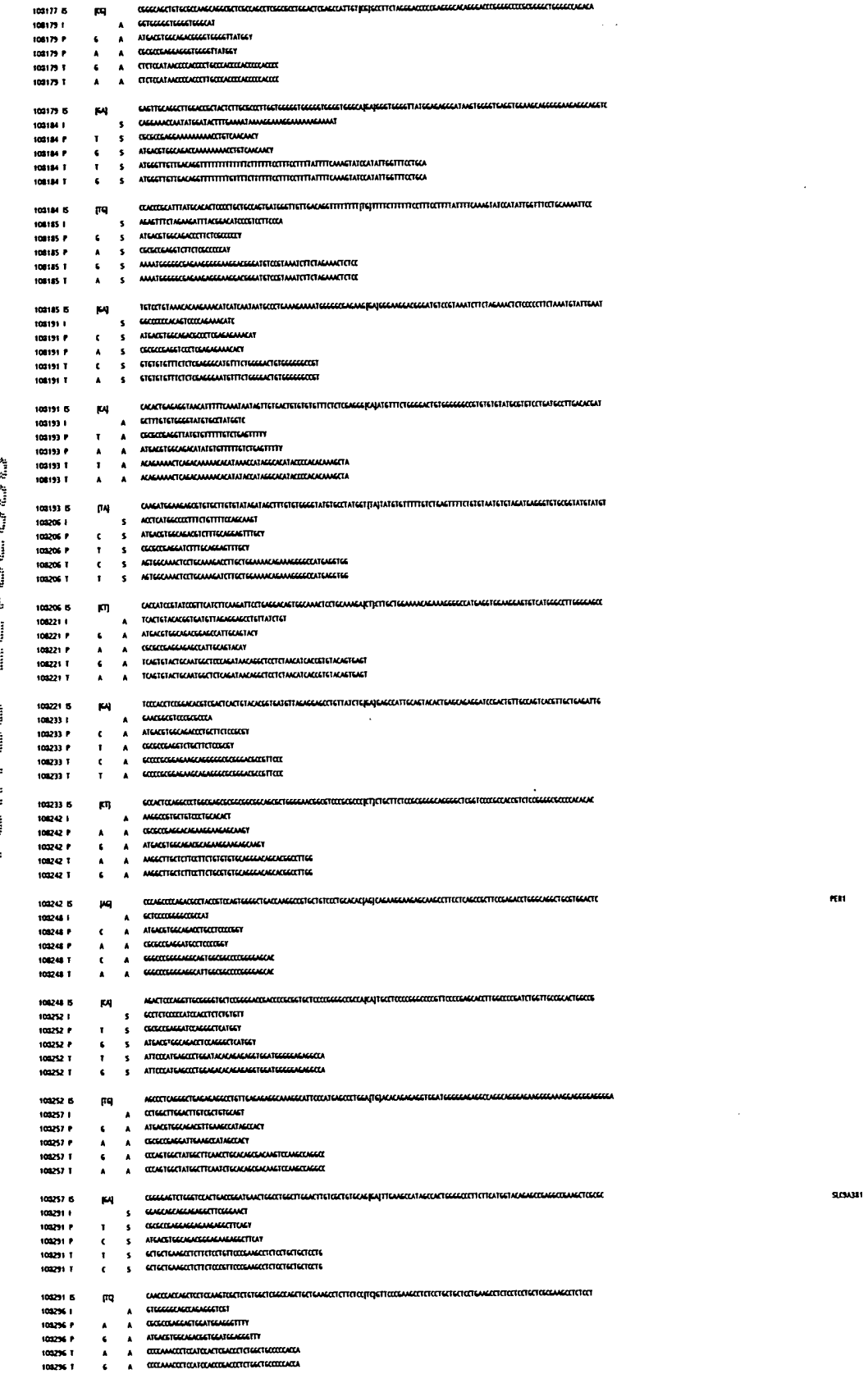
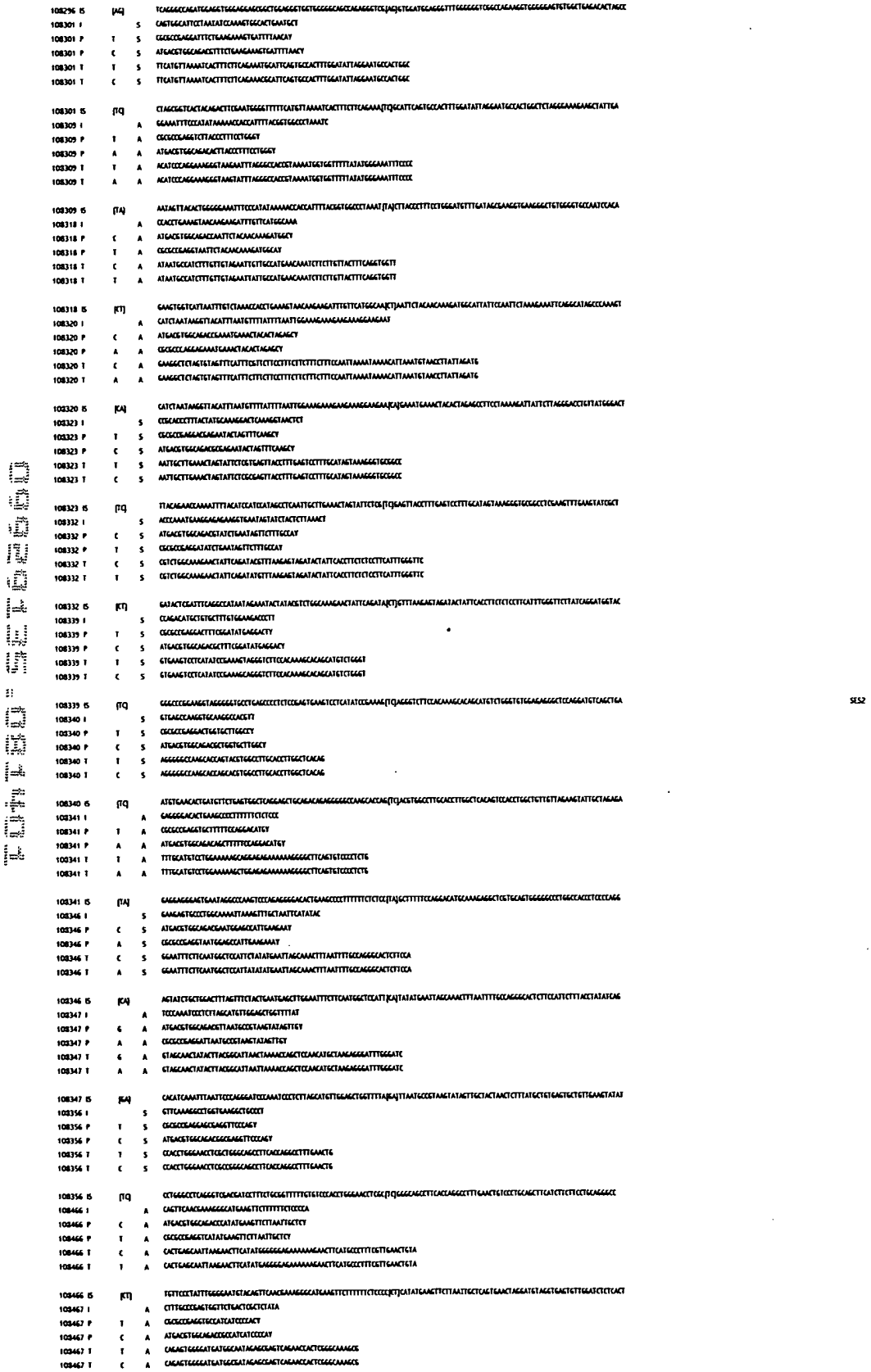


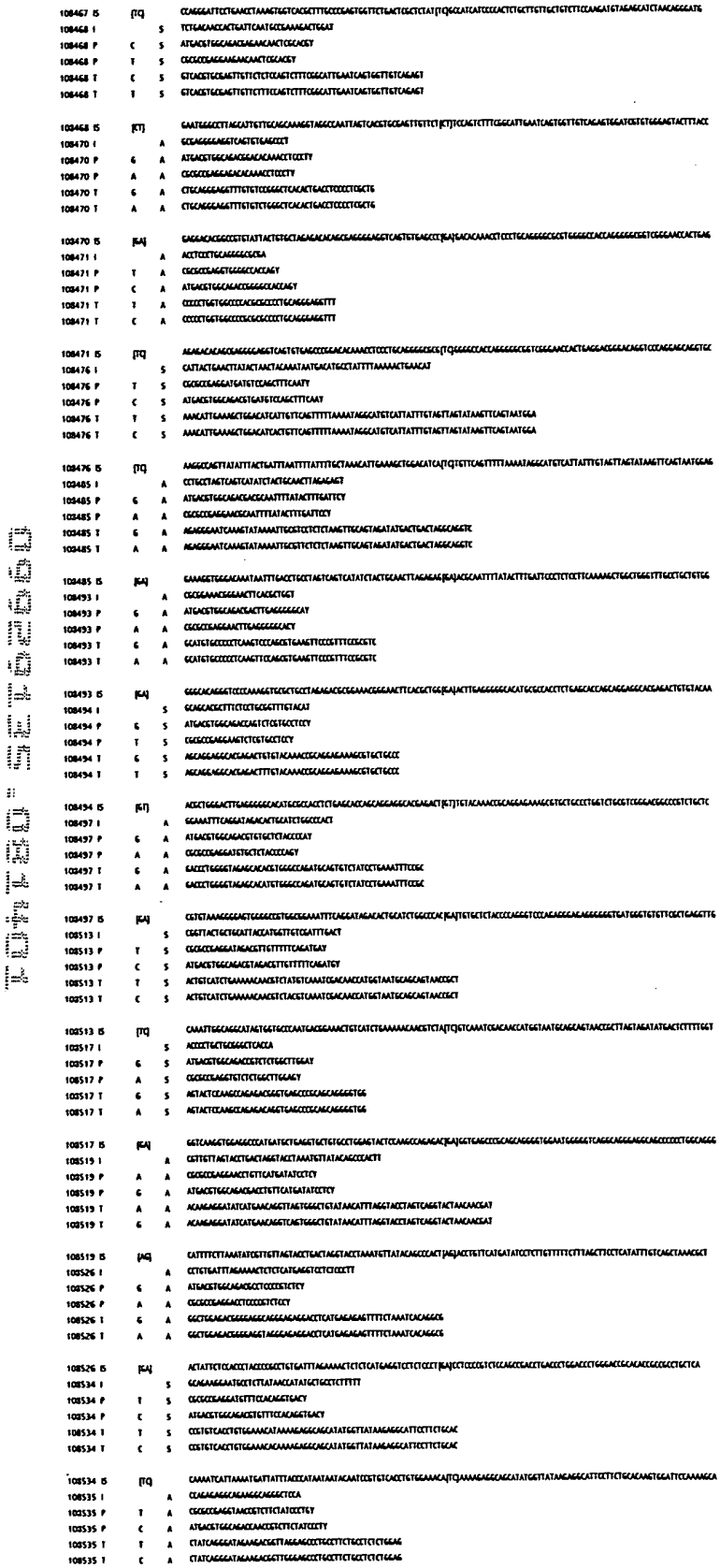
FIGURE 129G

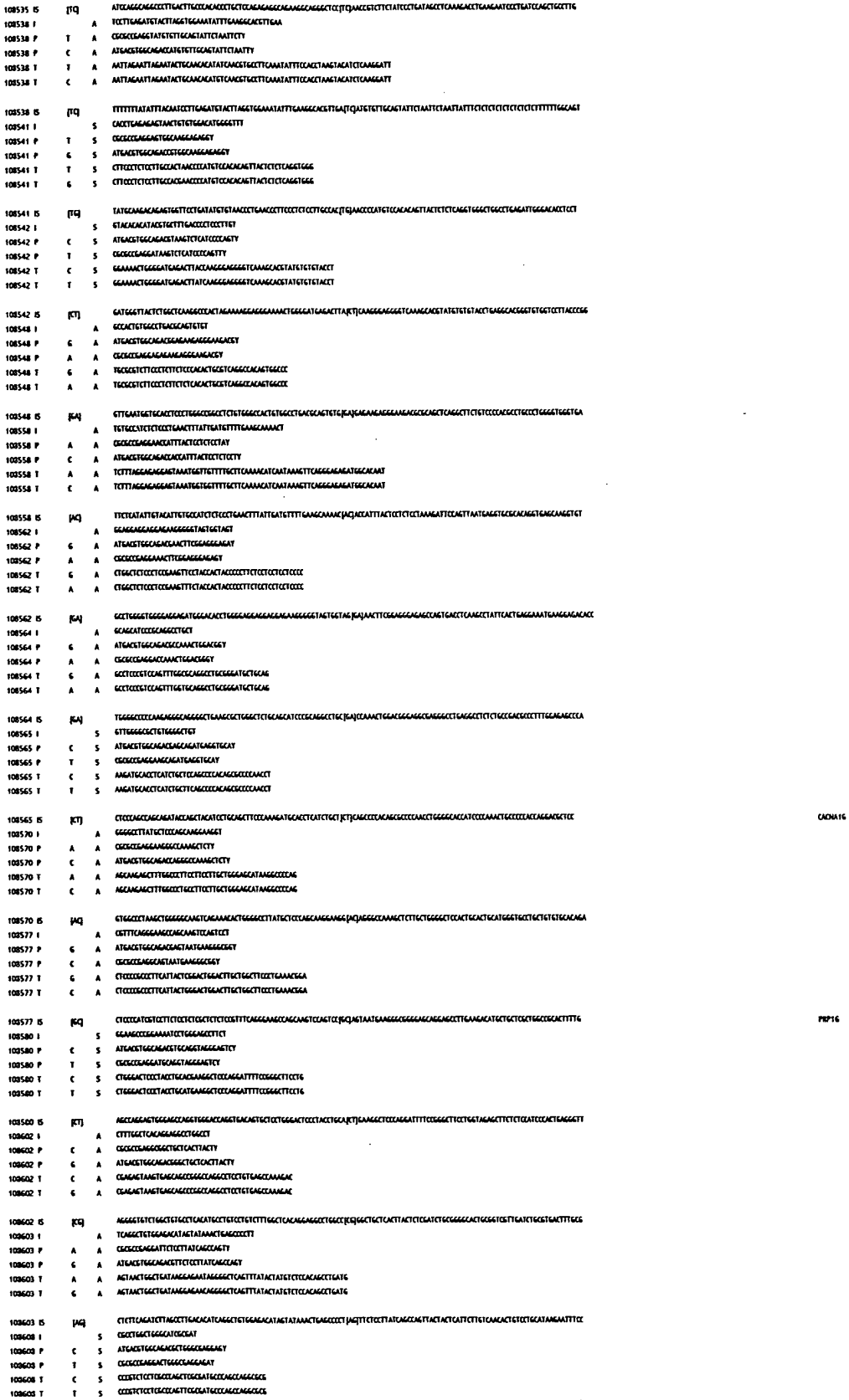






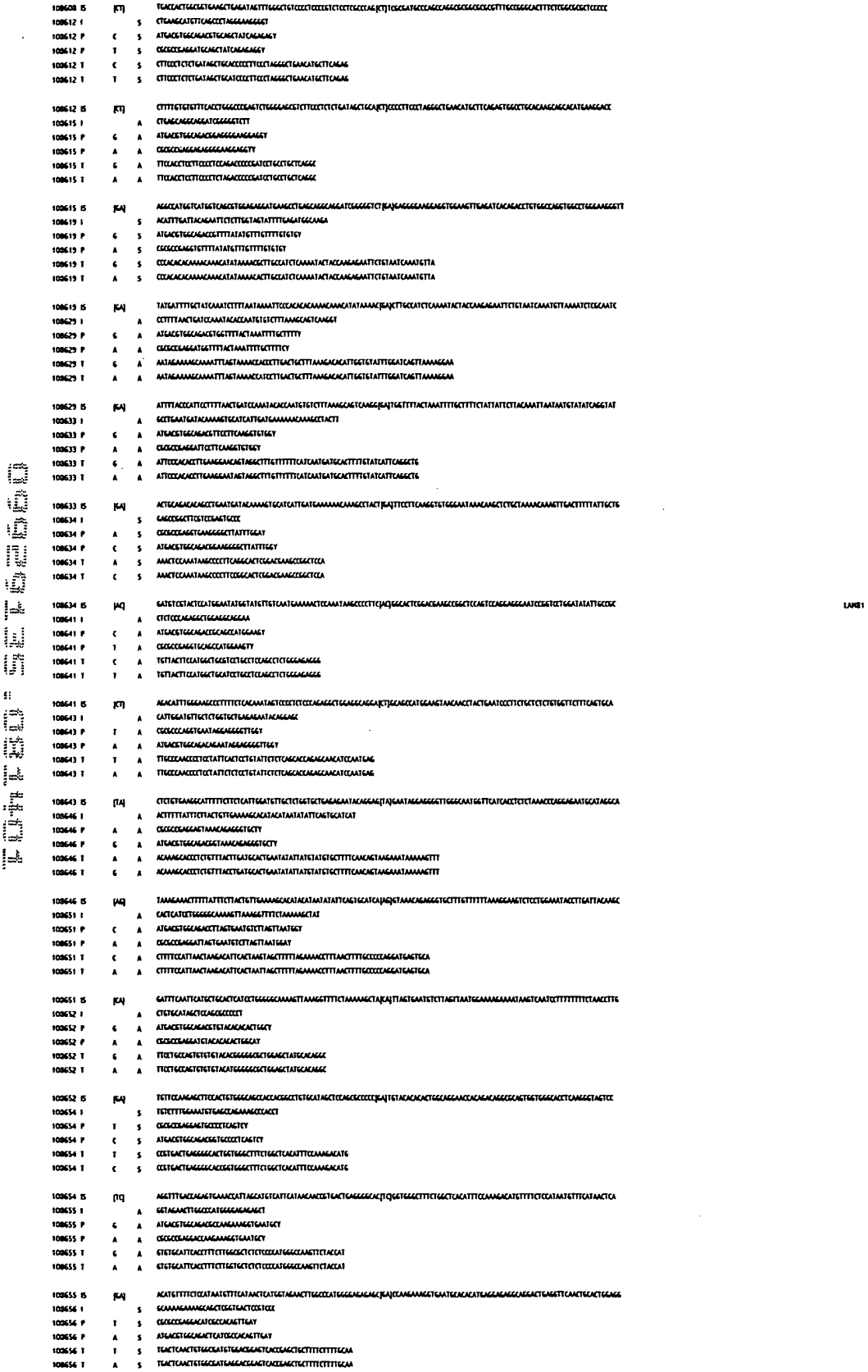






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FIGURE 129G



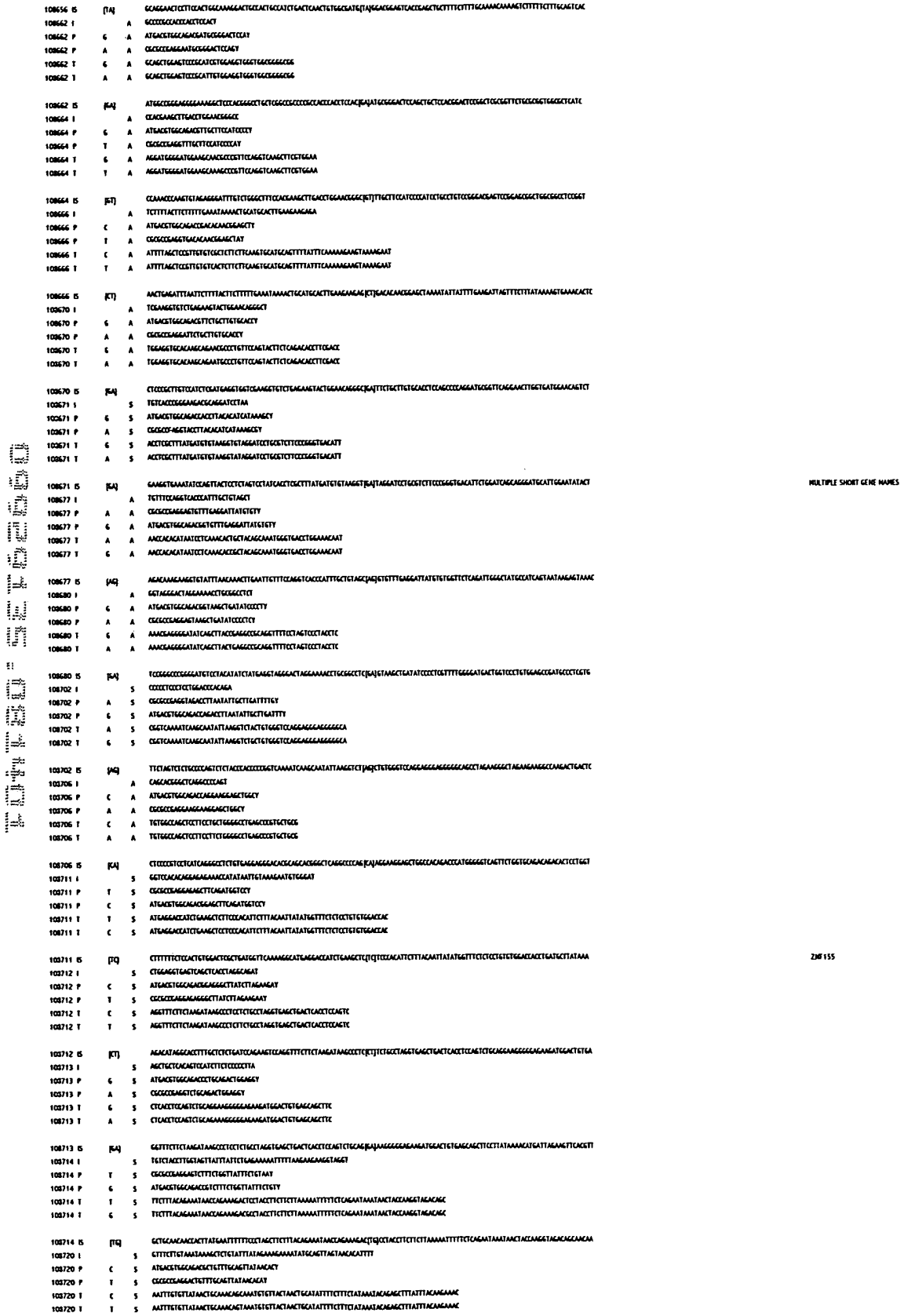
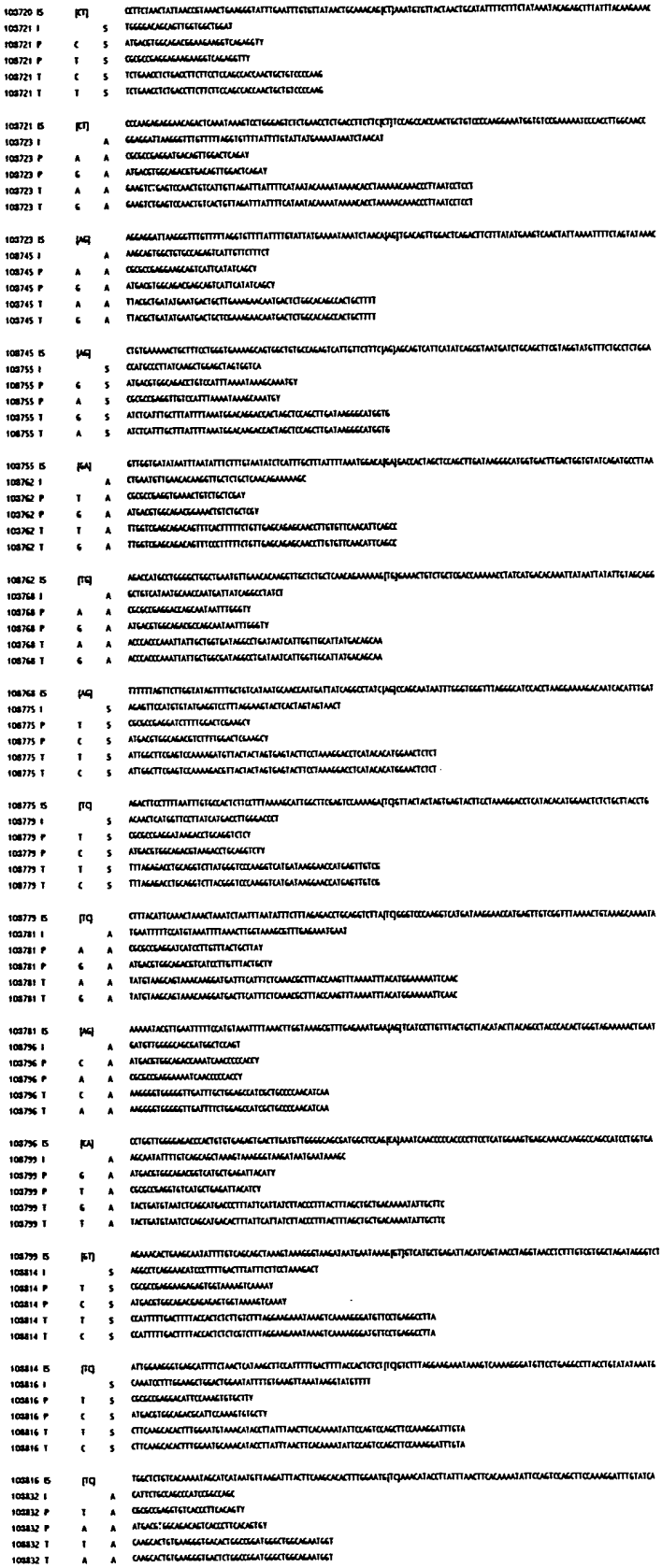
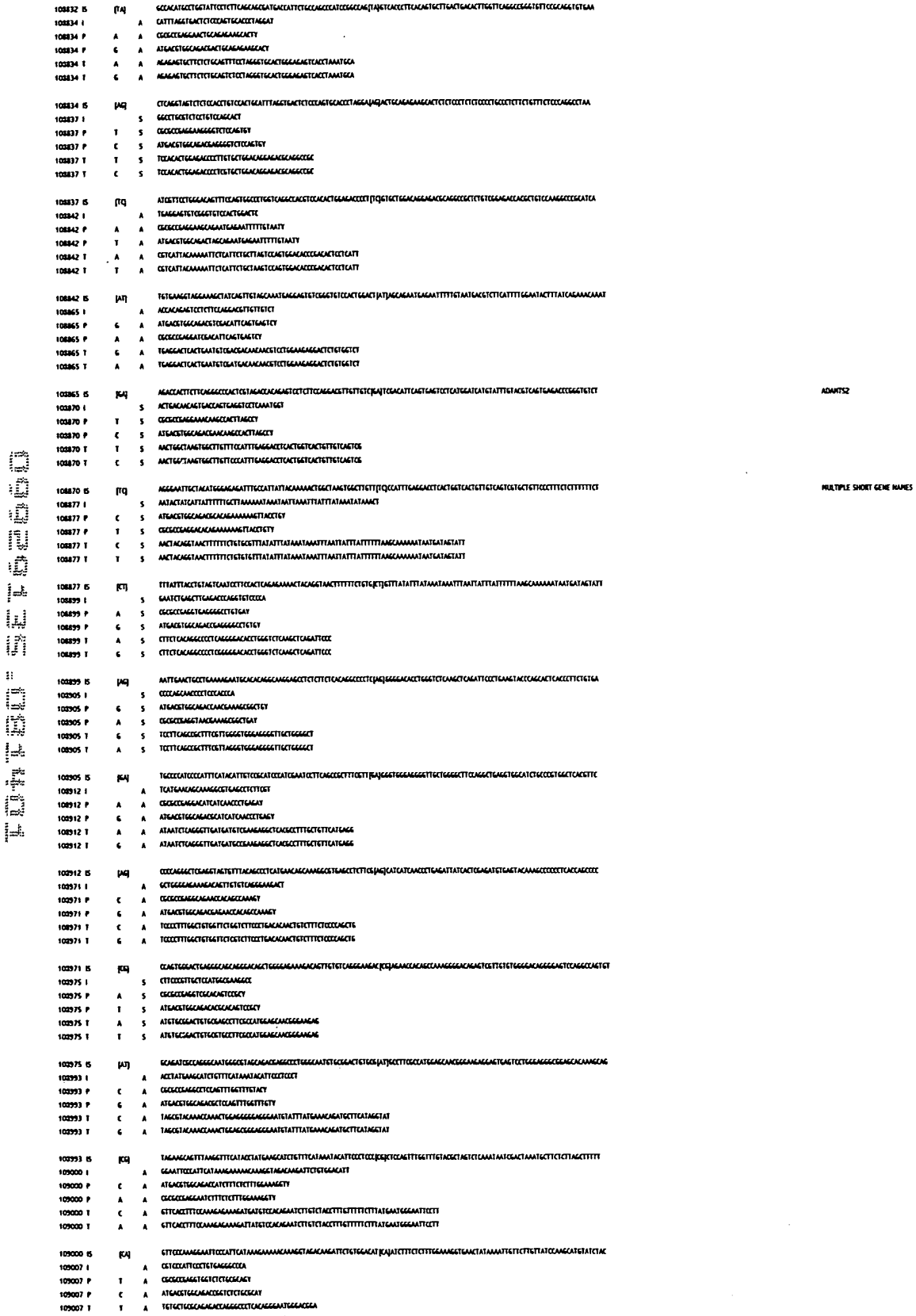
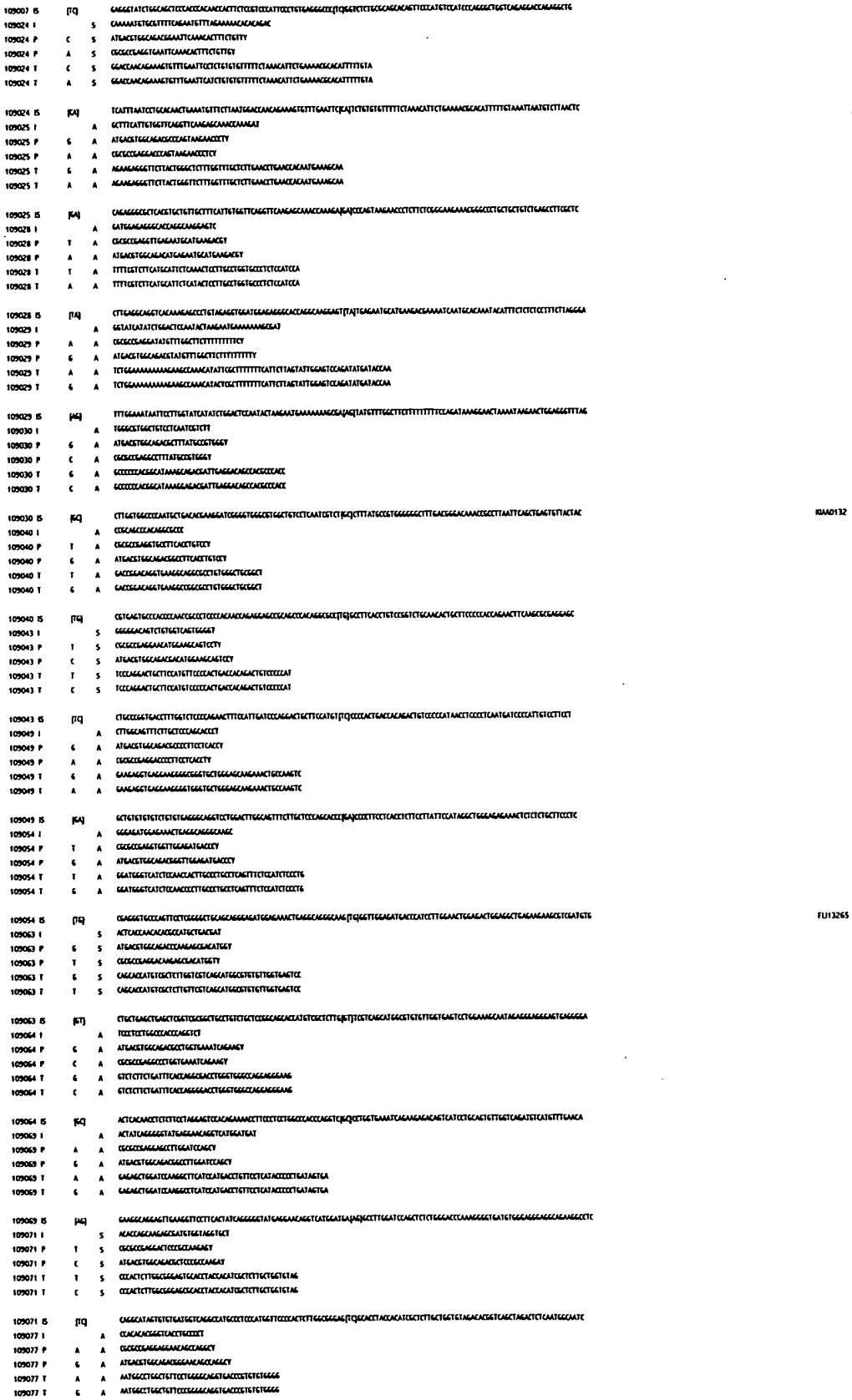

MULTIPLE SHORT GENE NAMES
ZMF155

FIGURE 129G




ADAMTS2
MULTIPLE SHORT GENE NAMES



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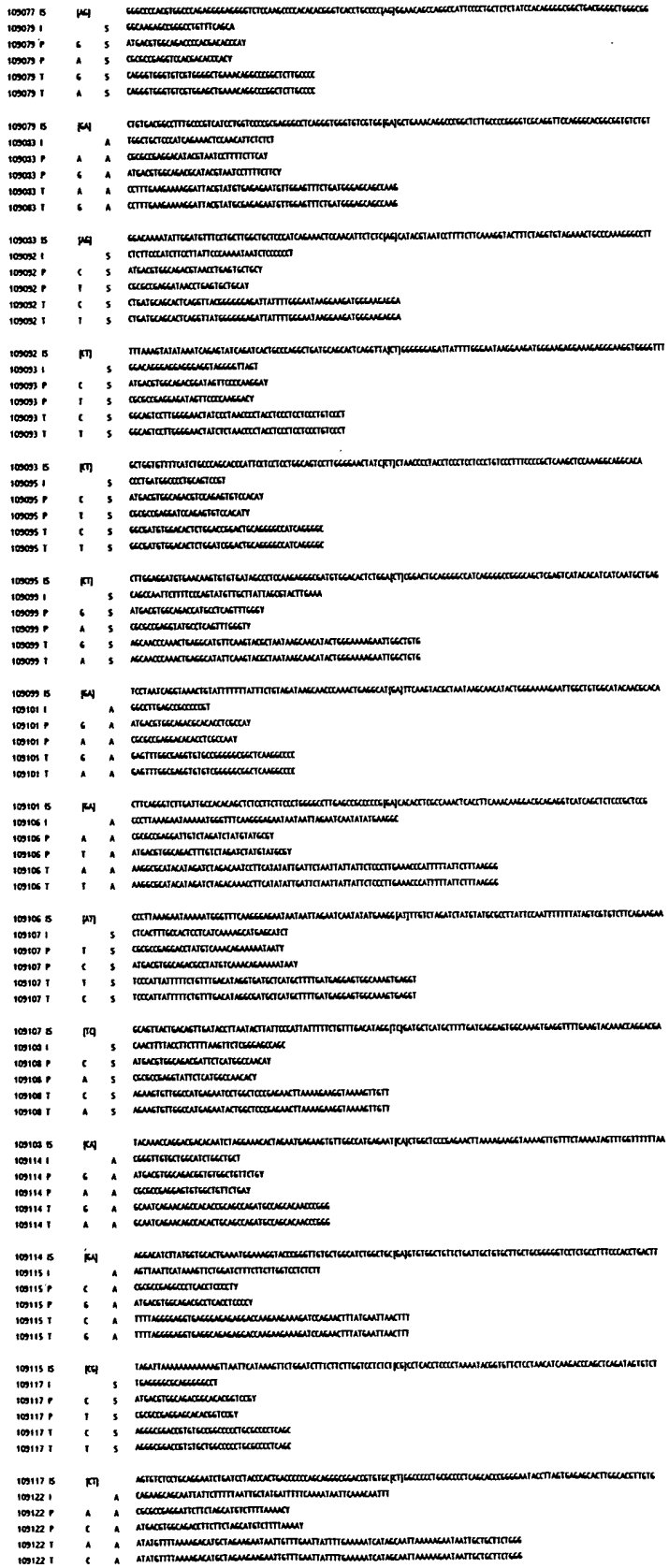
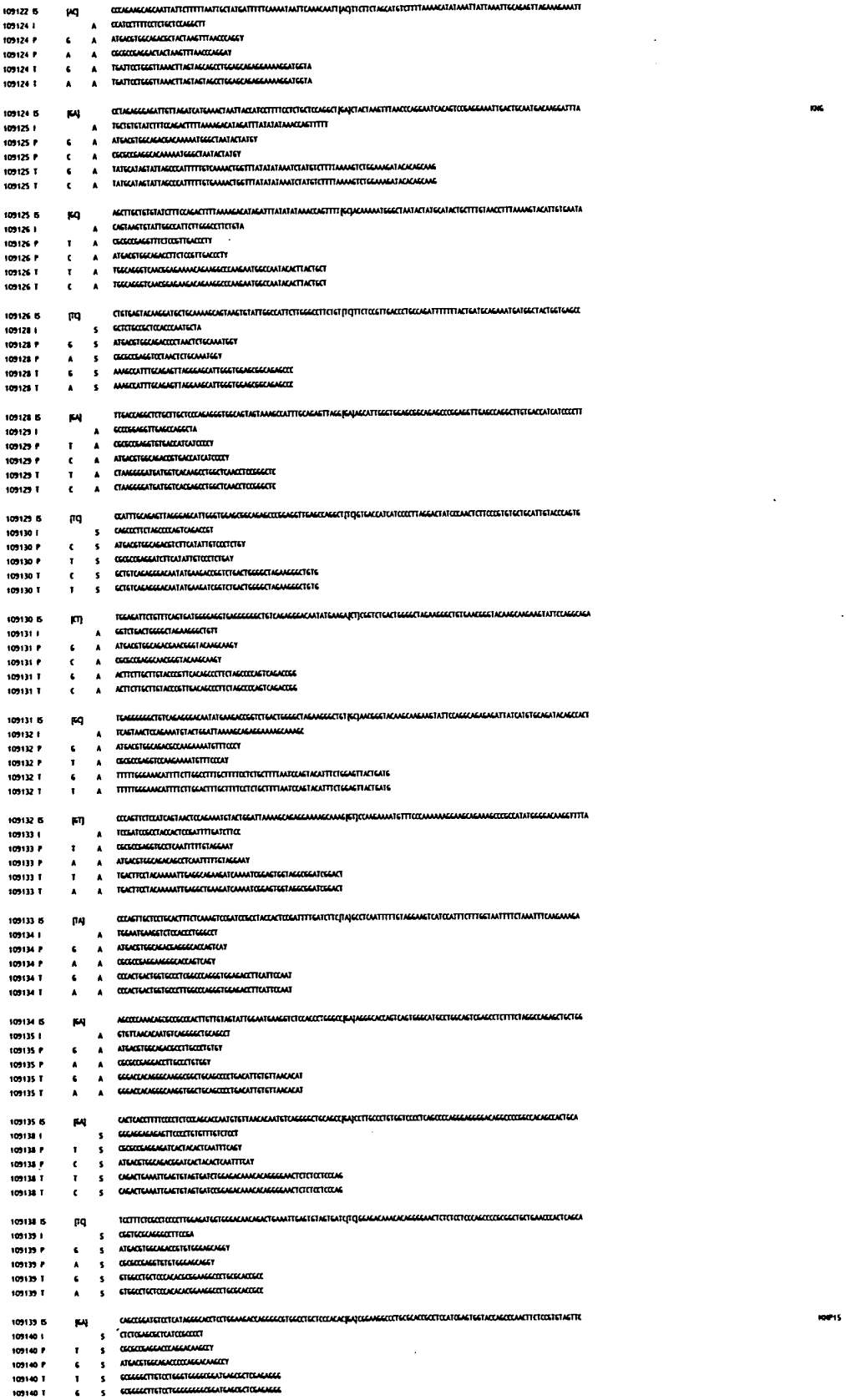


FIGURE 129G



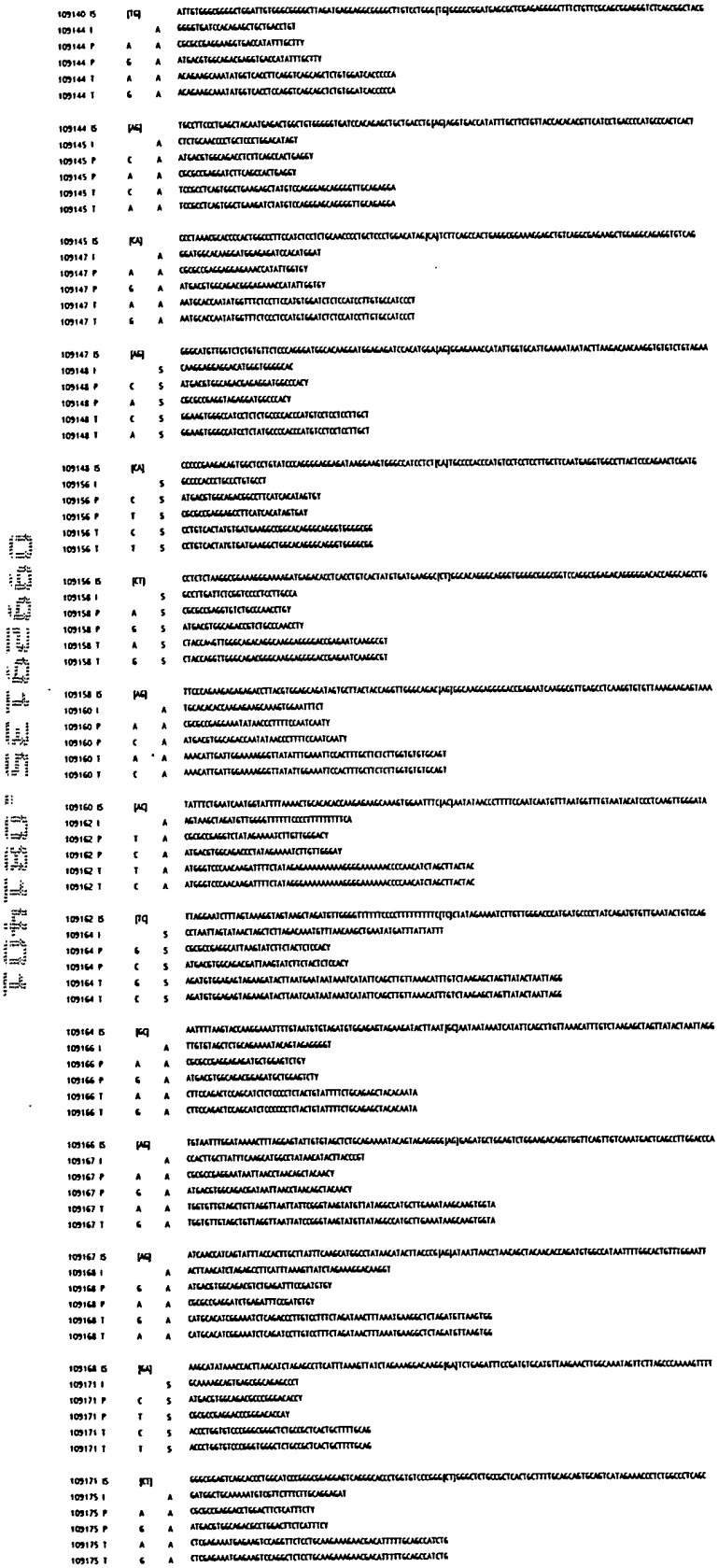
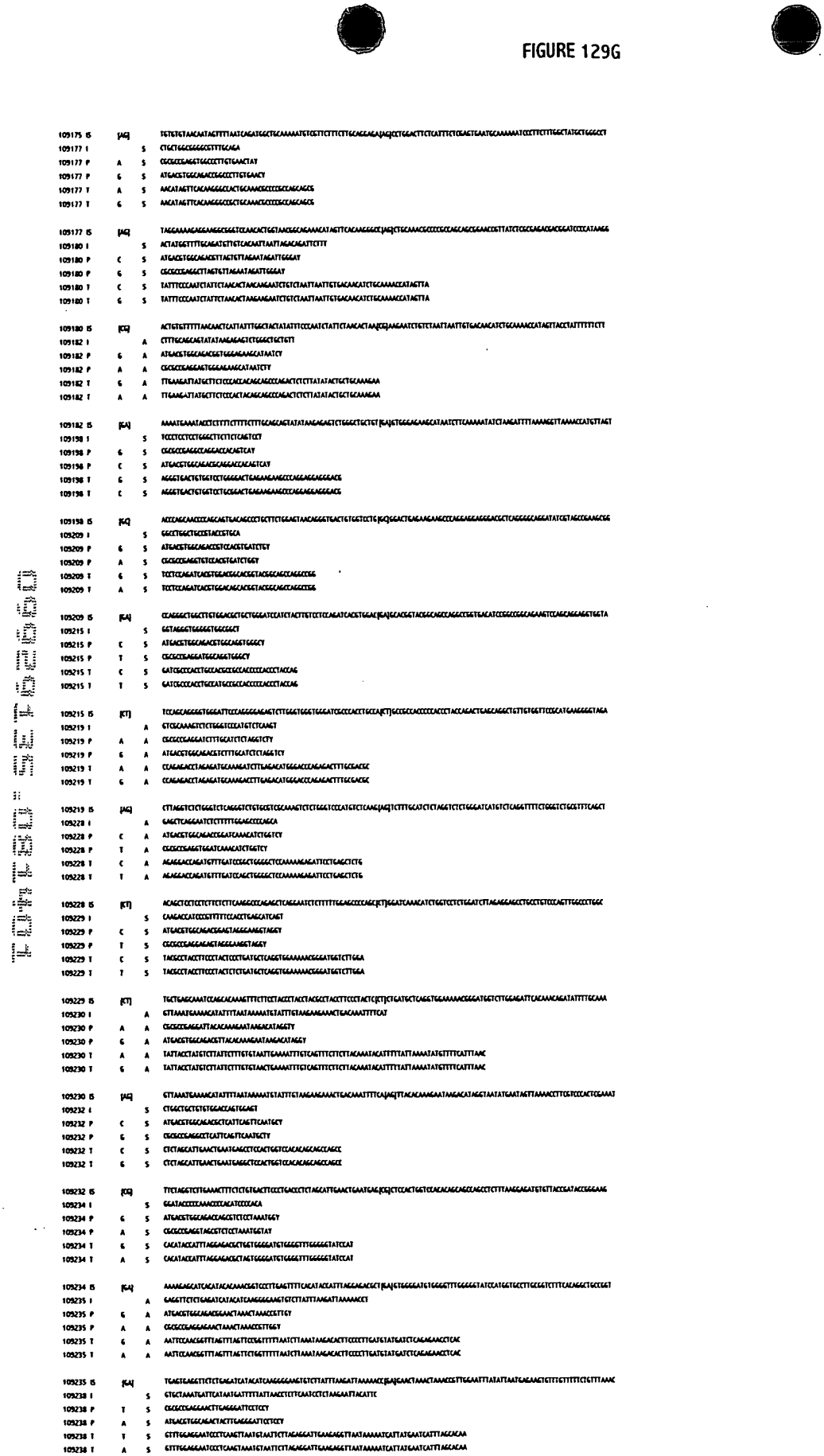
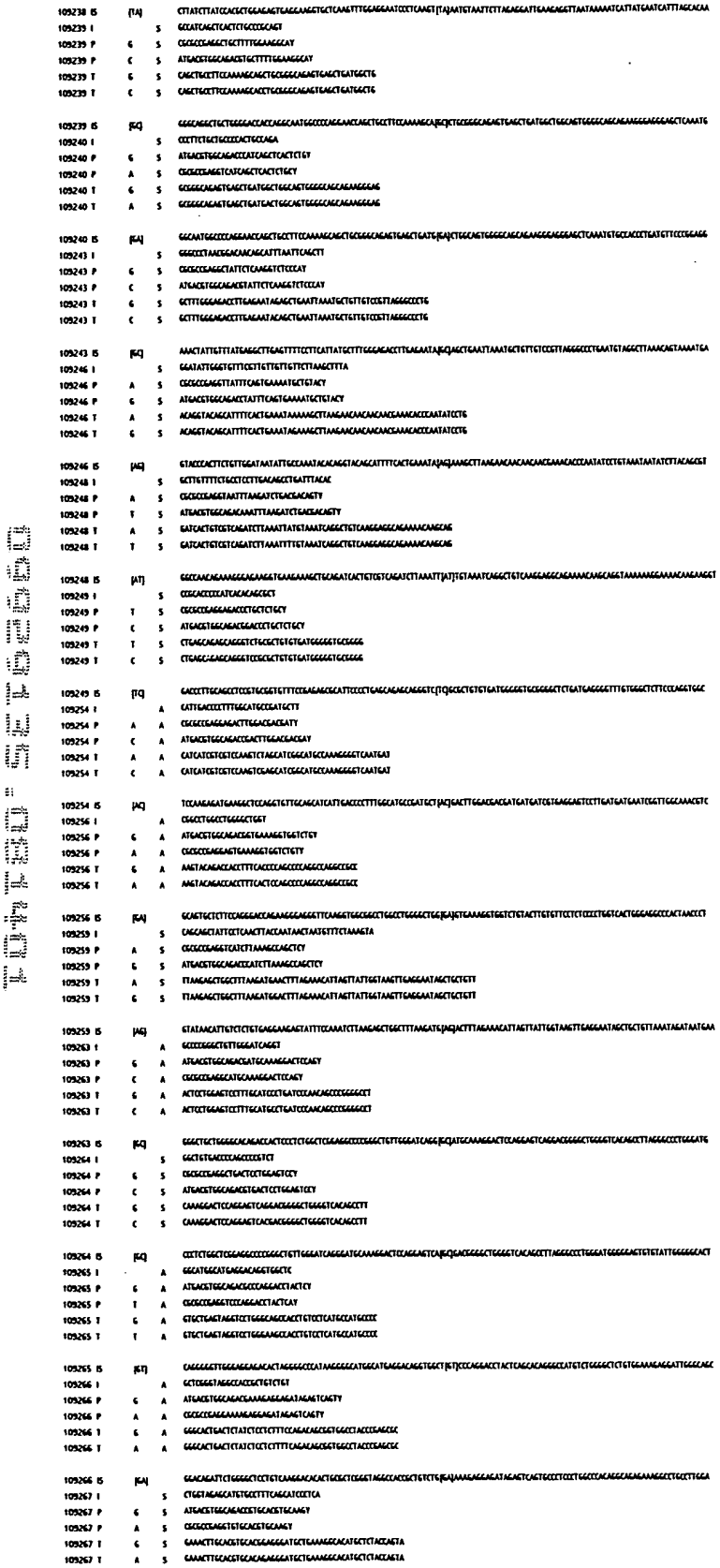


FIGURE 129G





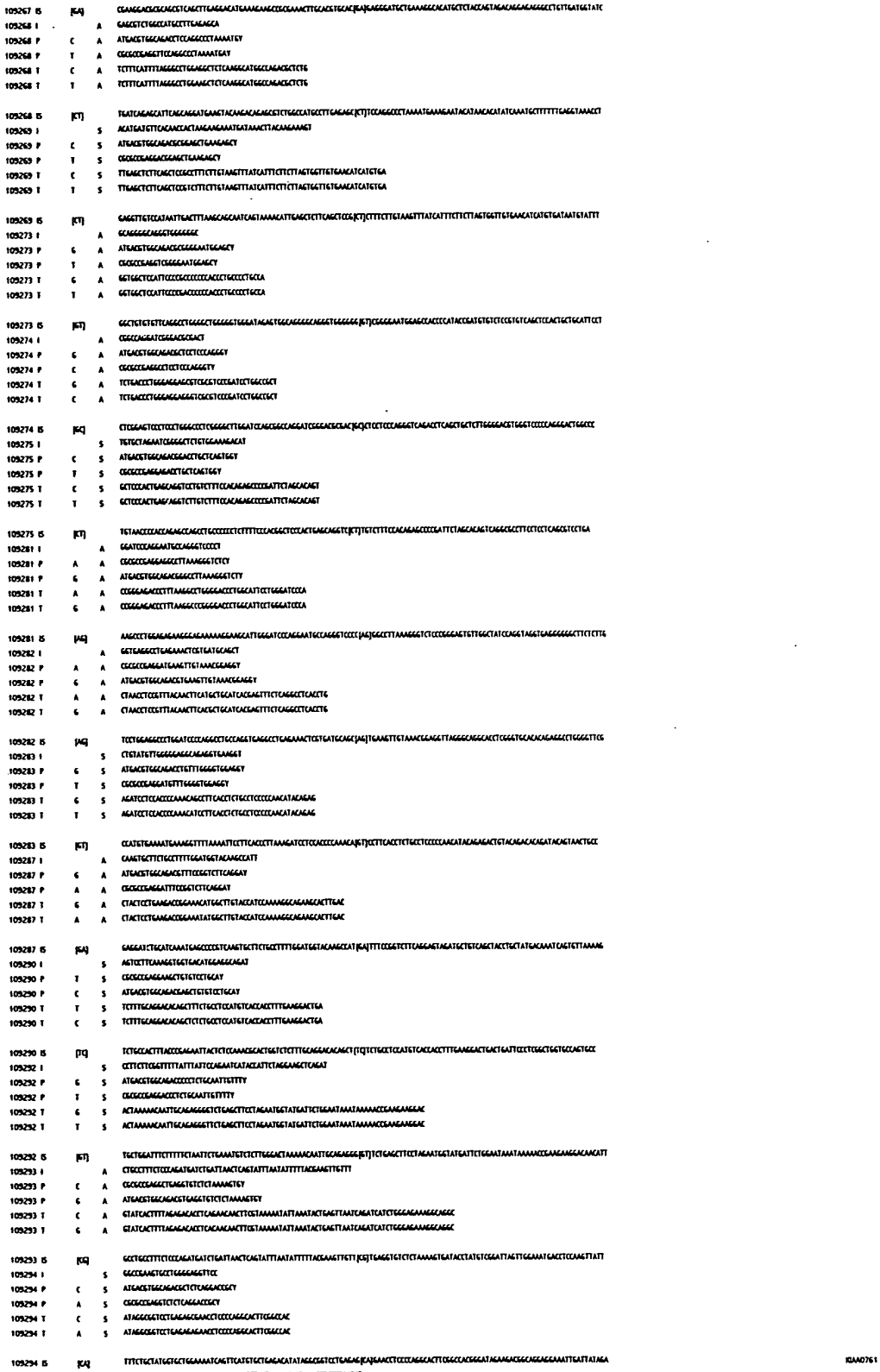


FIGURE 129G

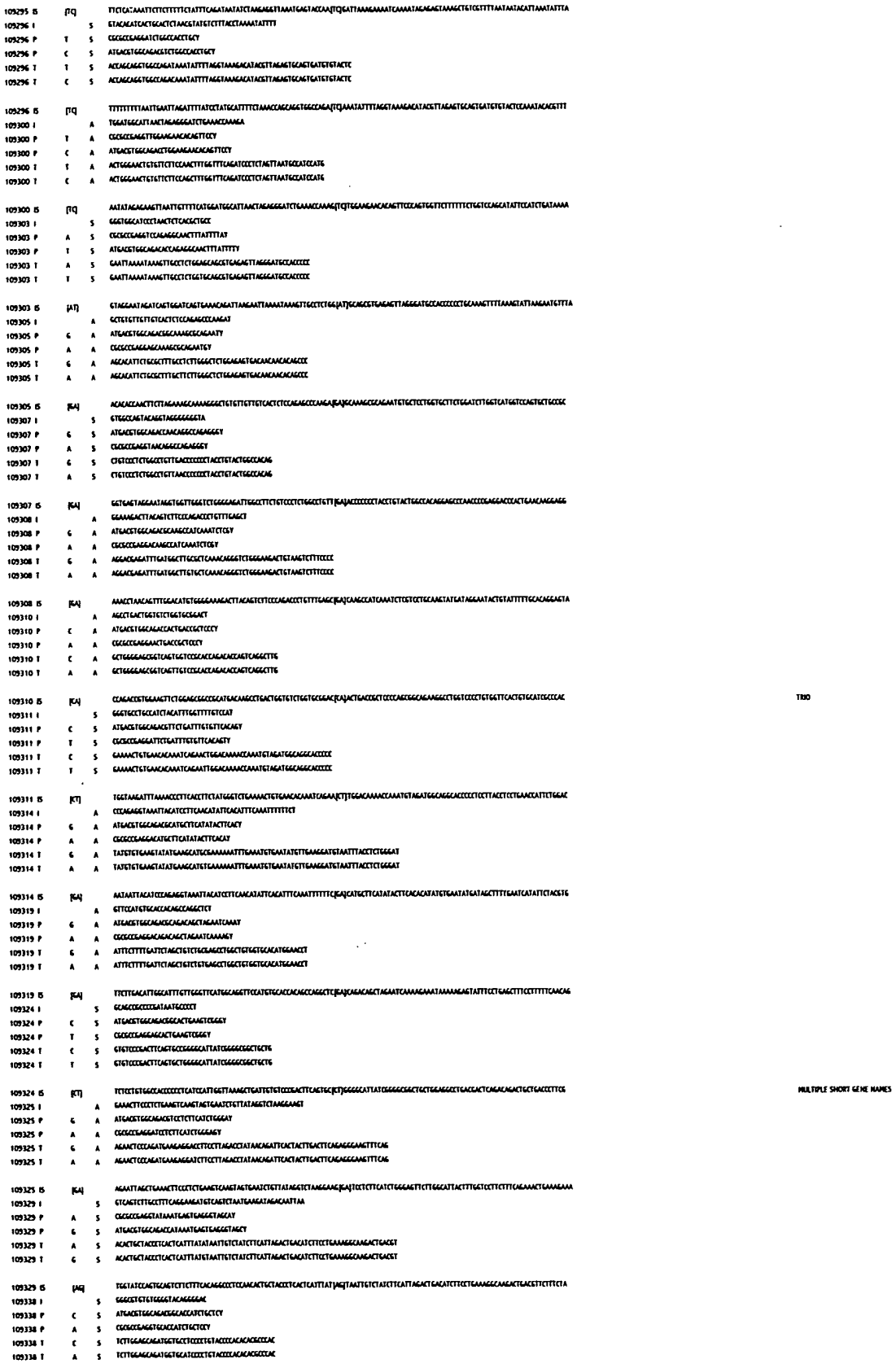
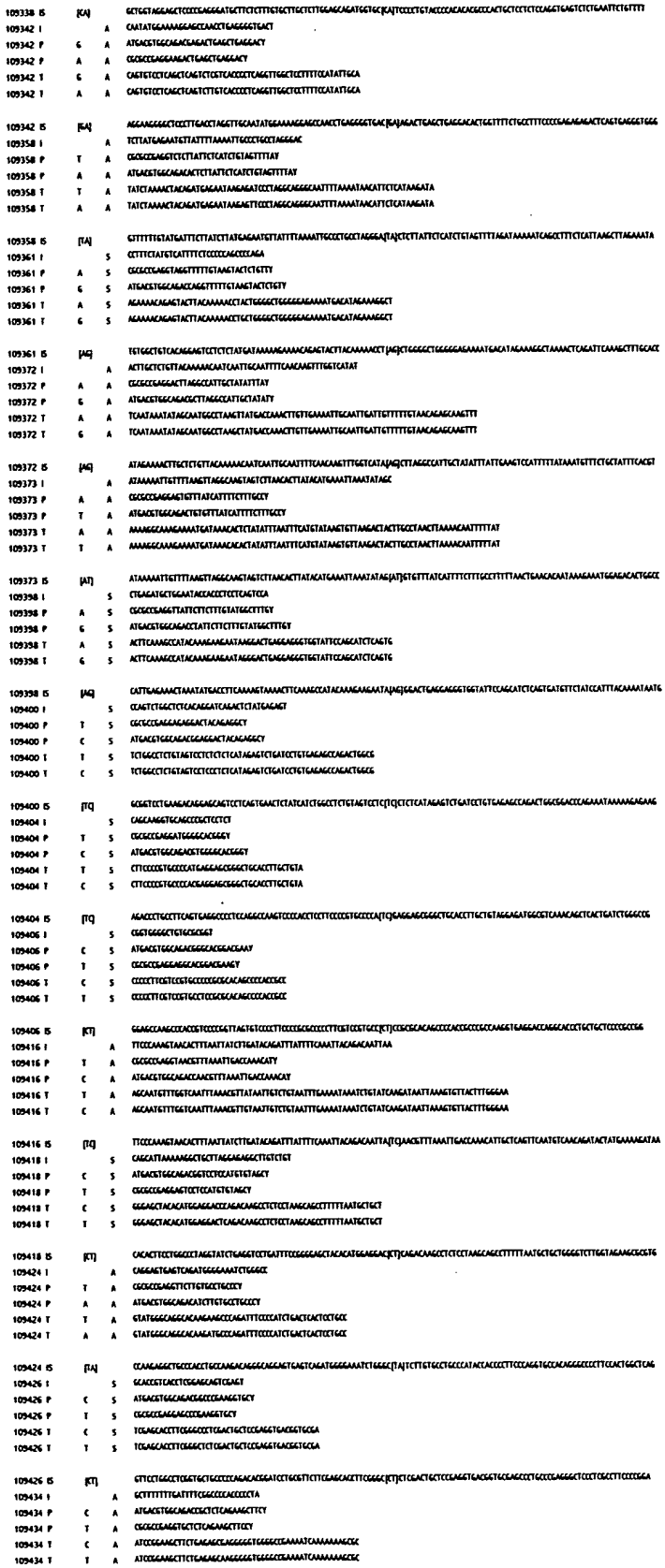


FIGURE 129G



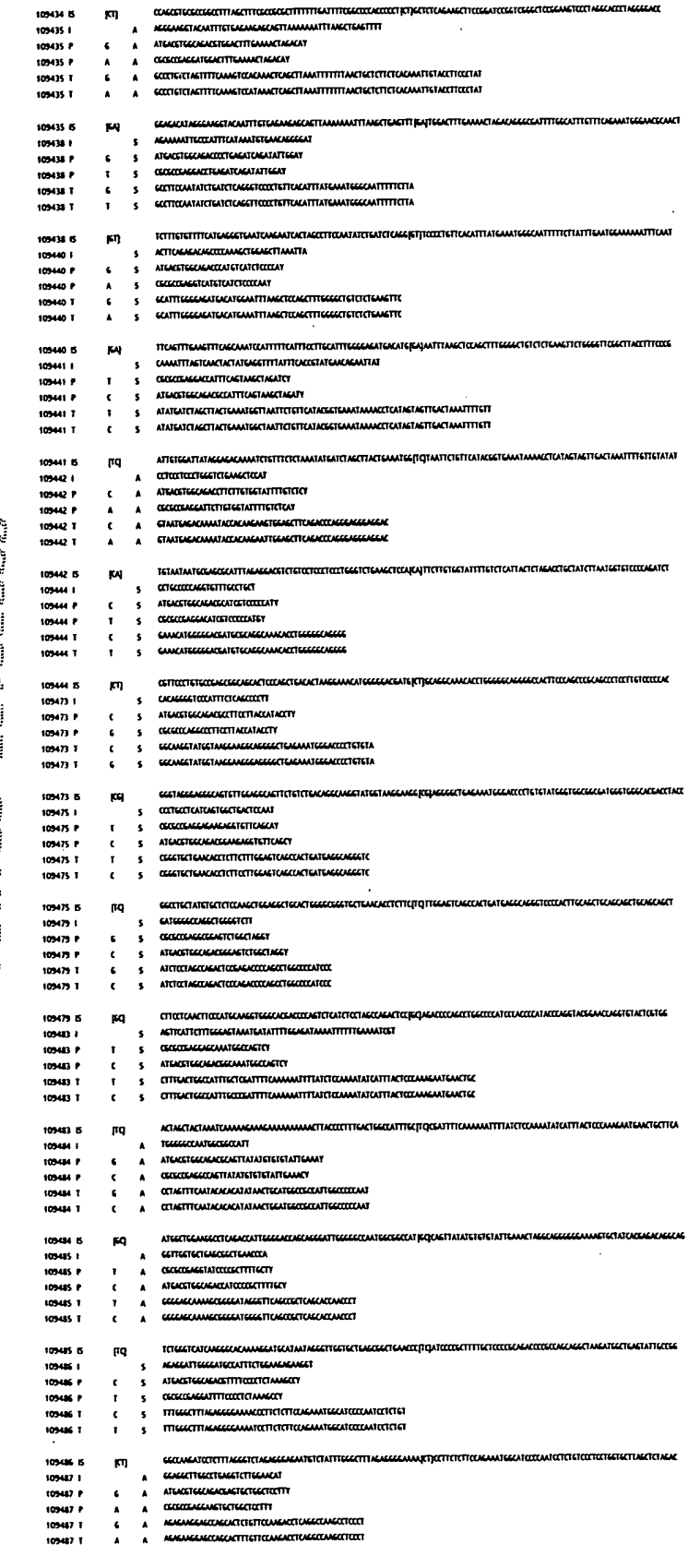
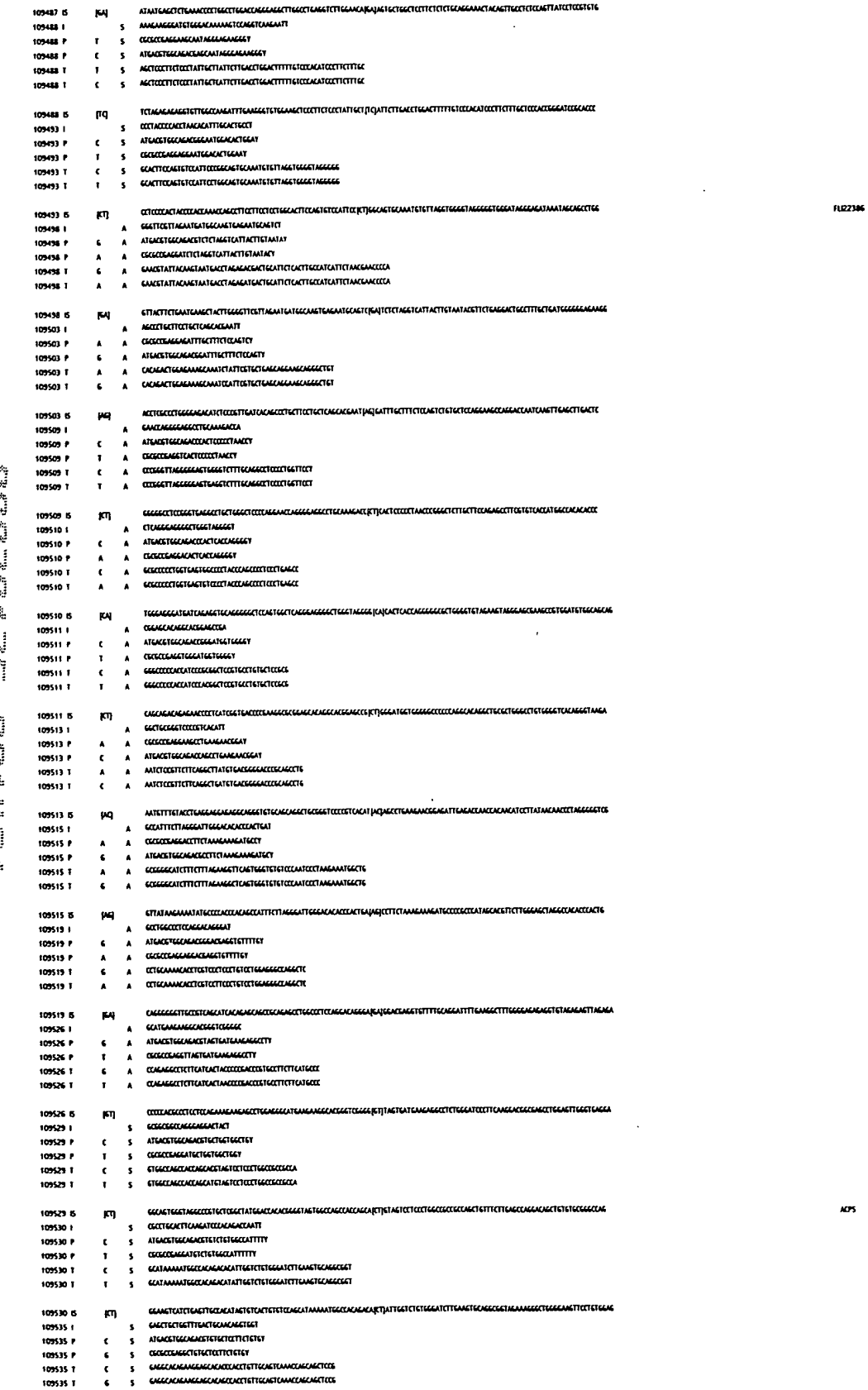


FIGURE 129G



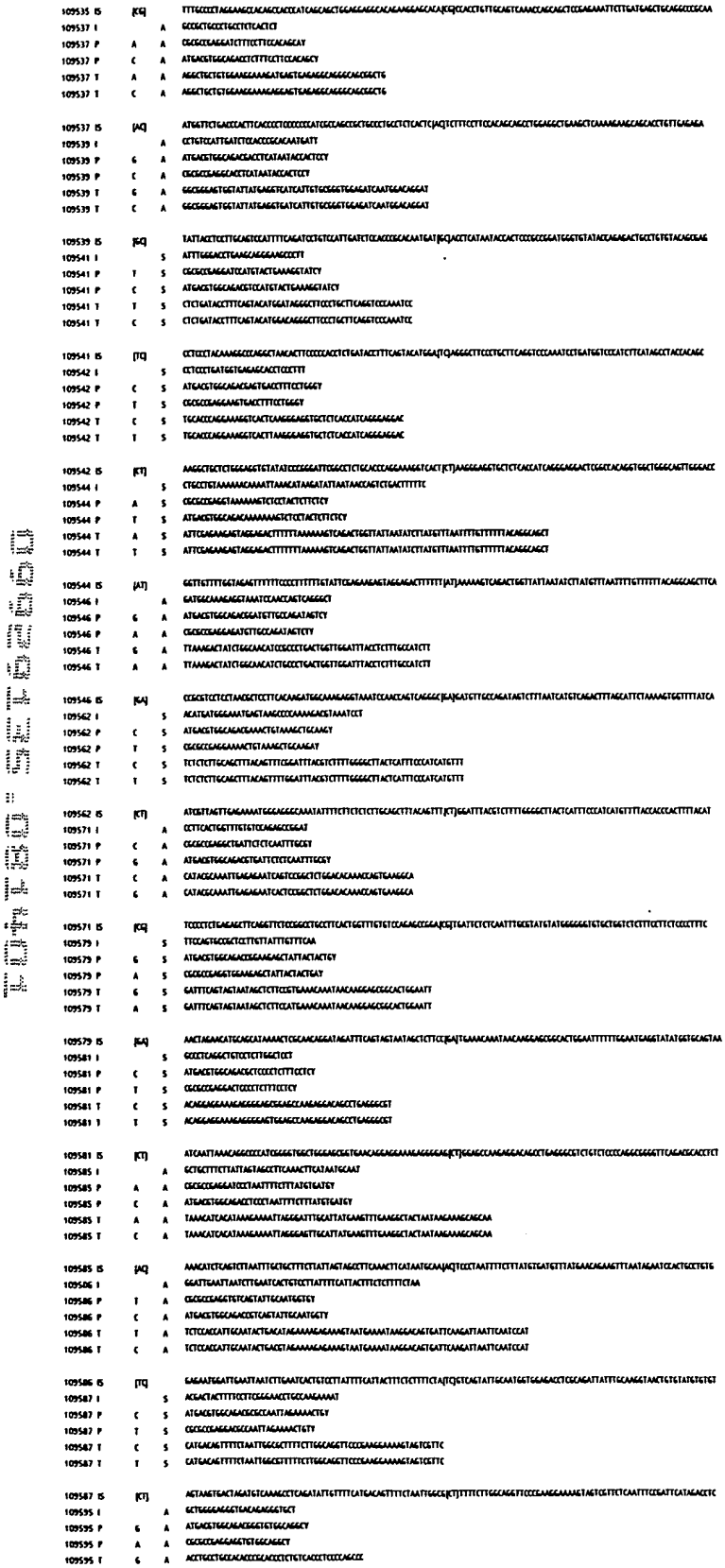


FIGURE 129G



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FIGURE 129G

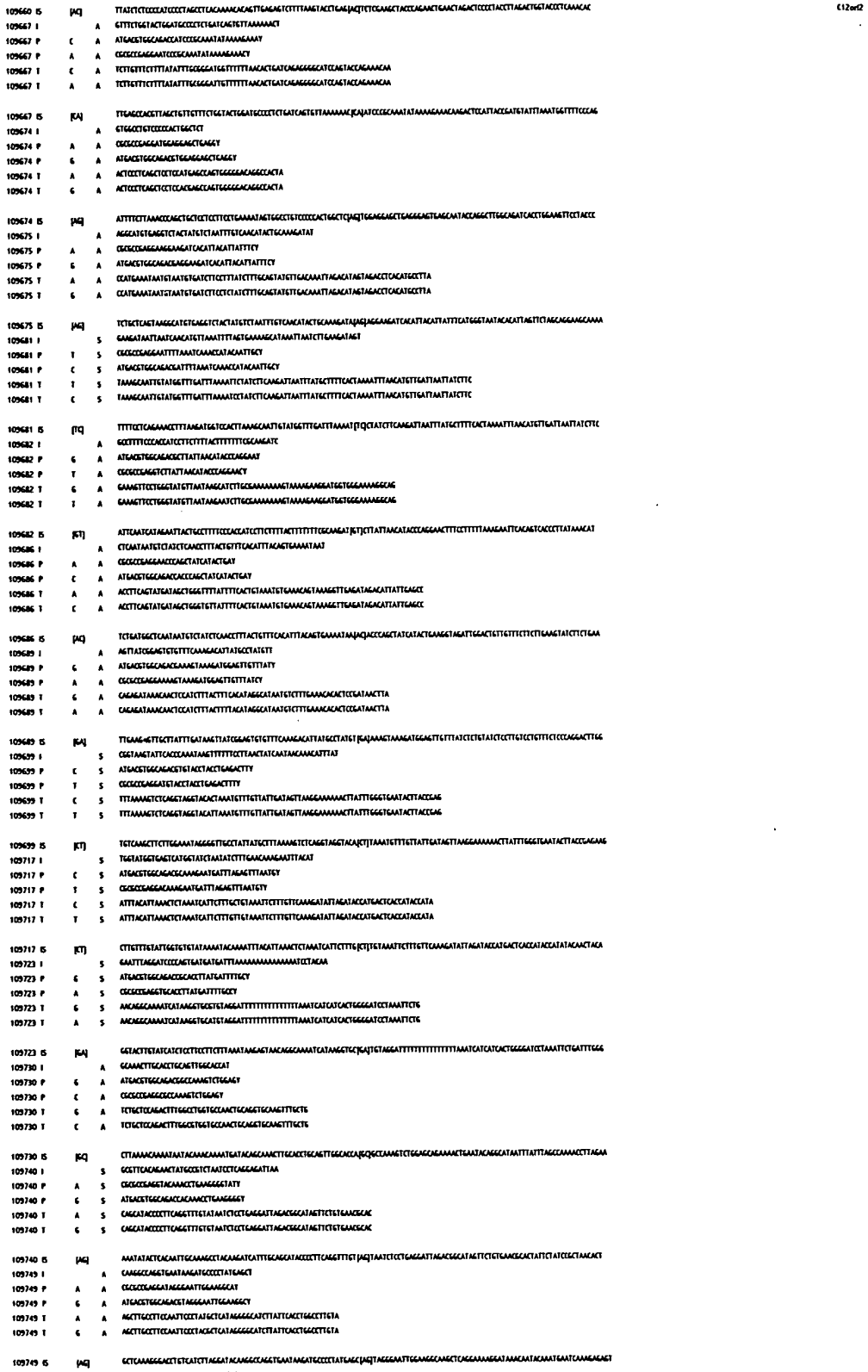


FIGURE 129G

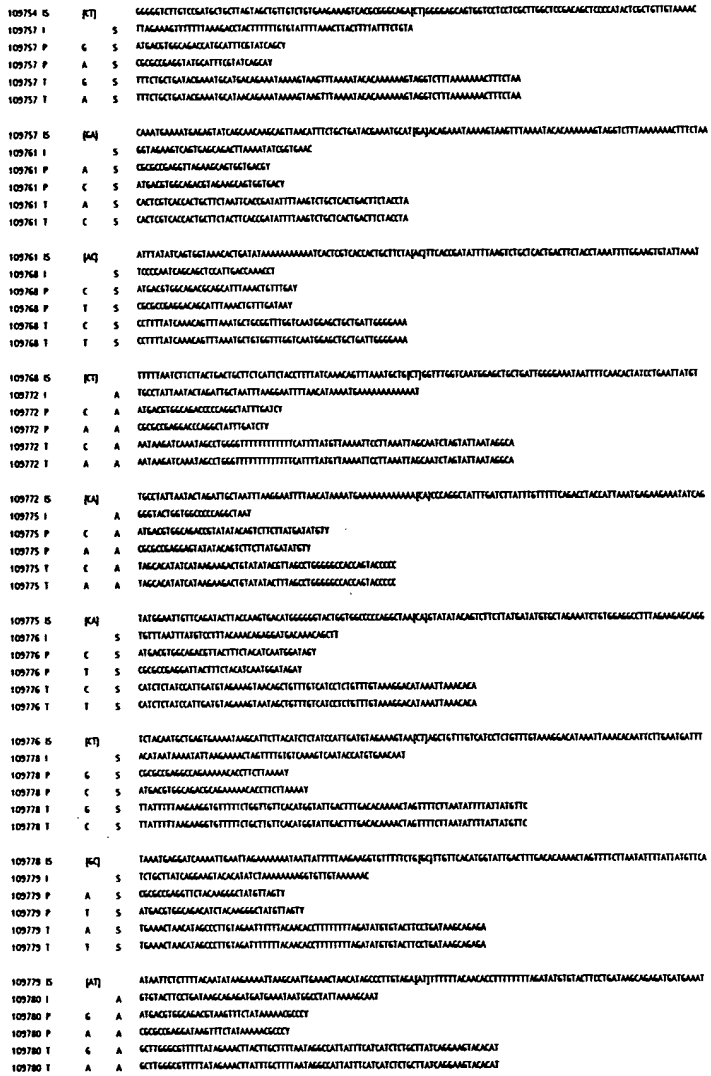
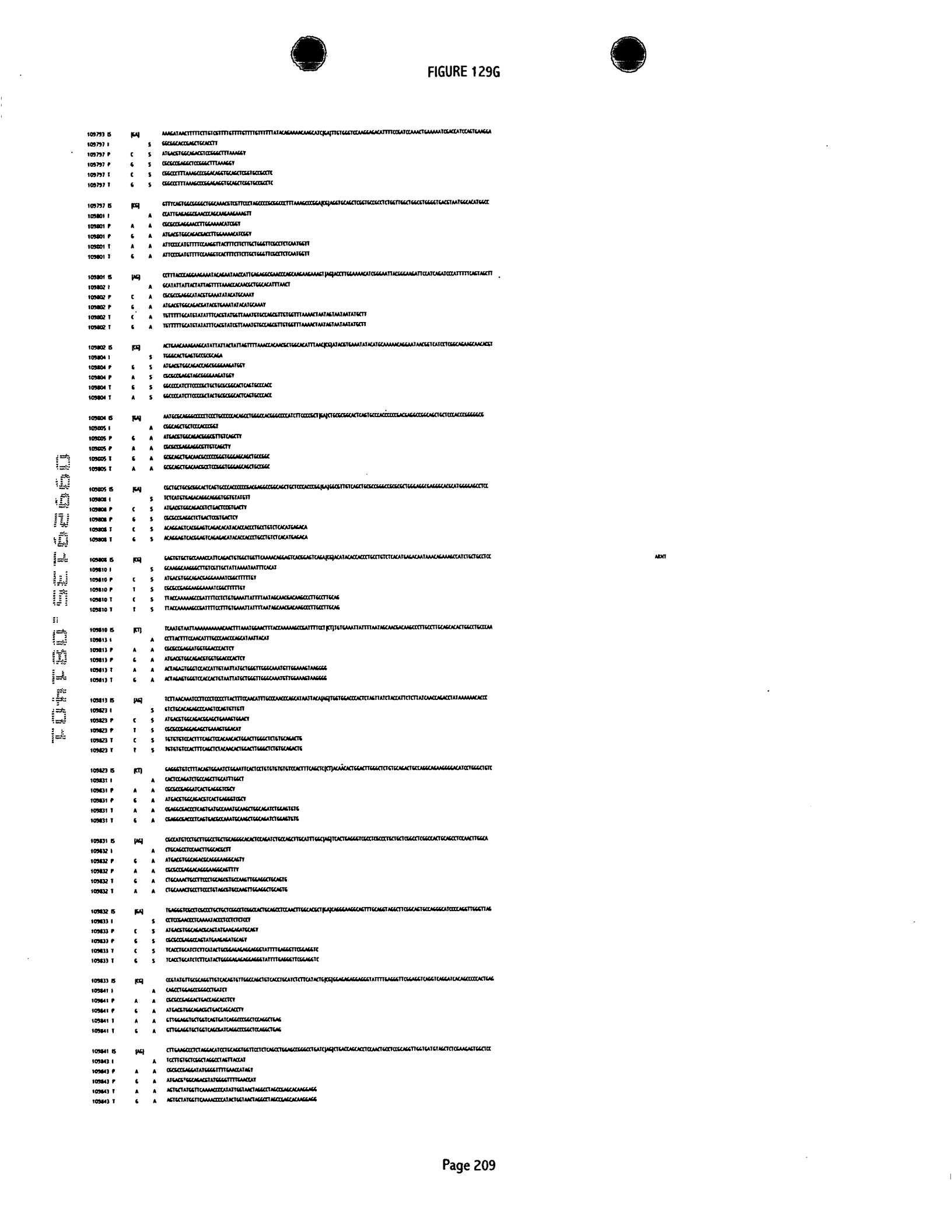
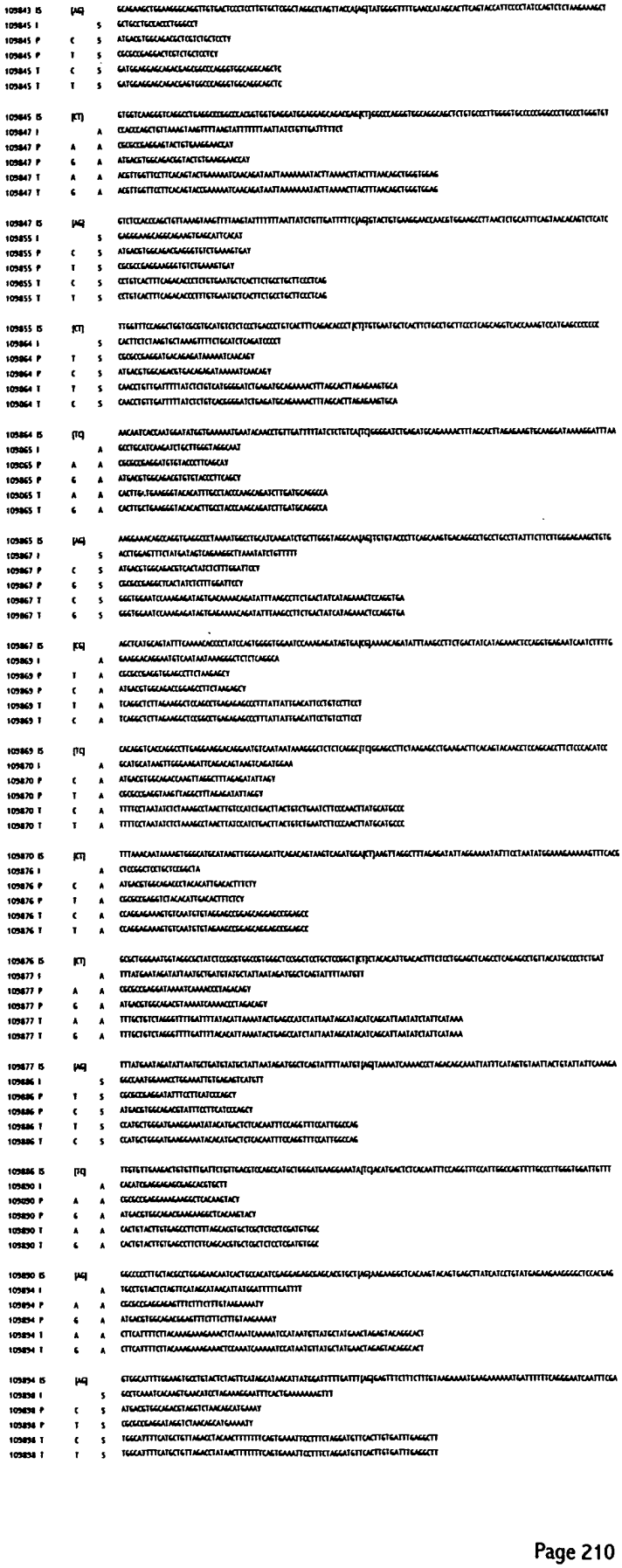


FIGURE 129G





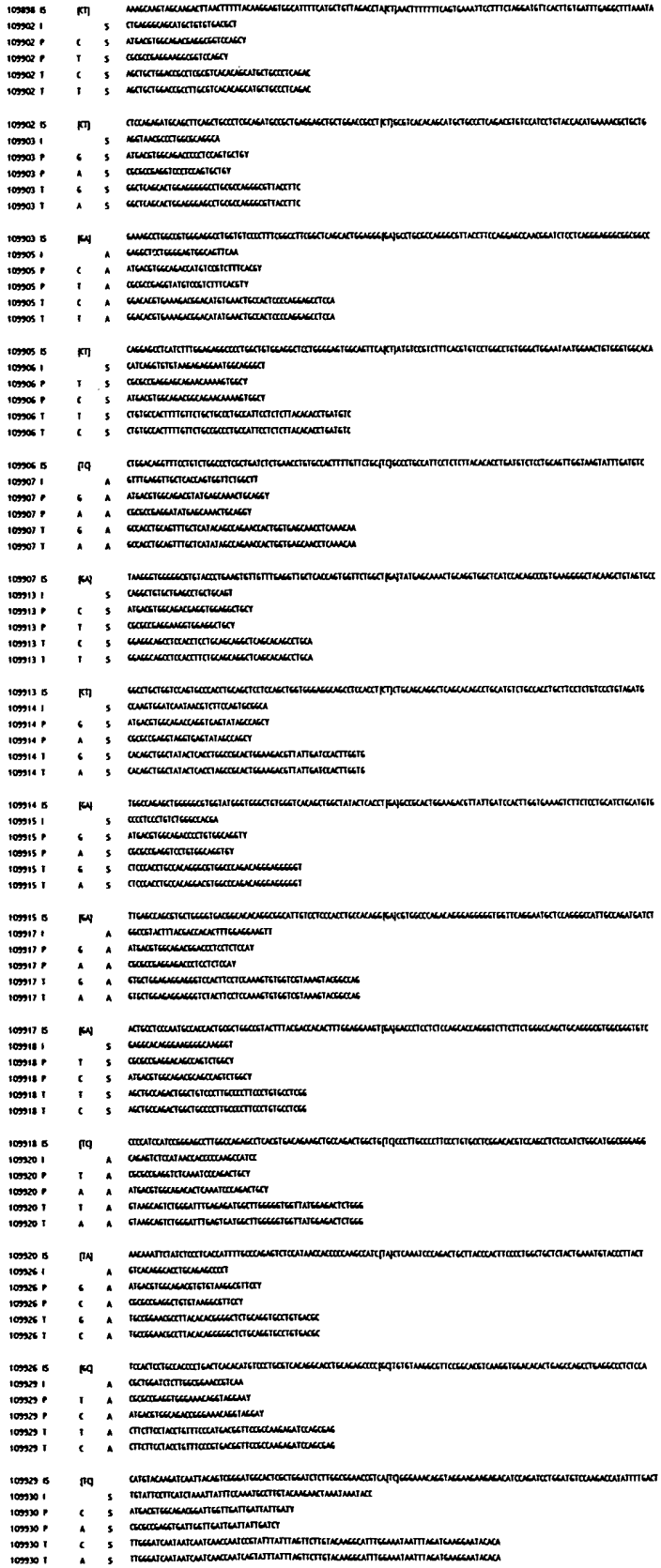
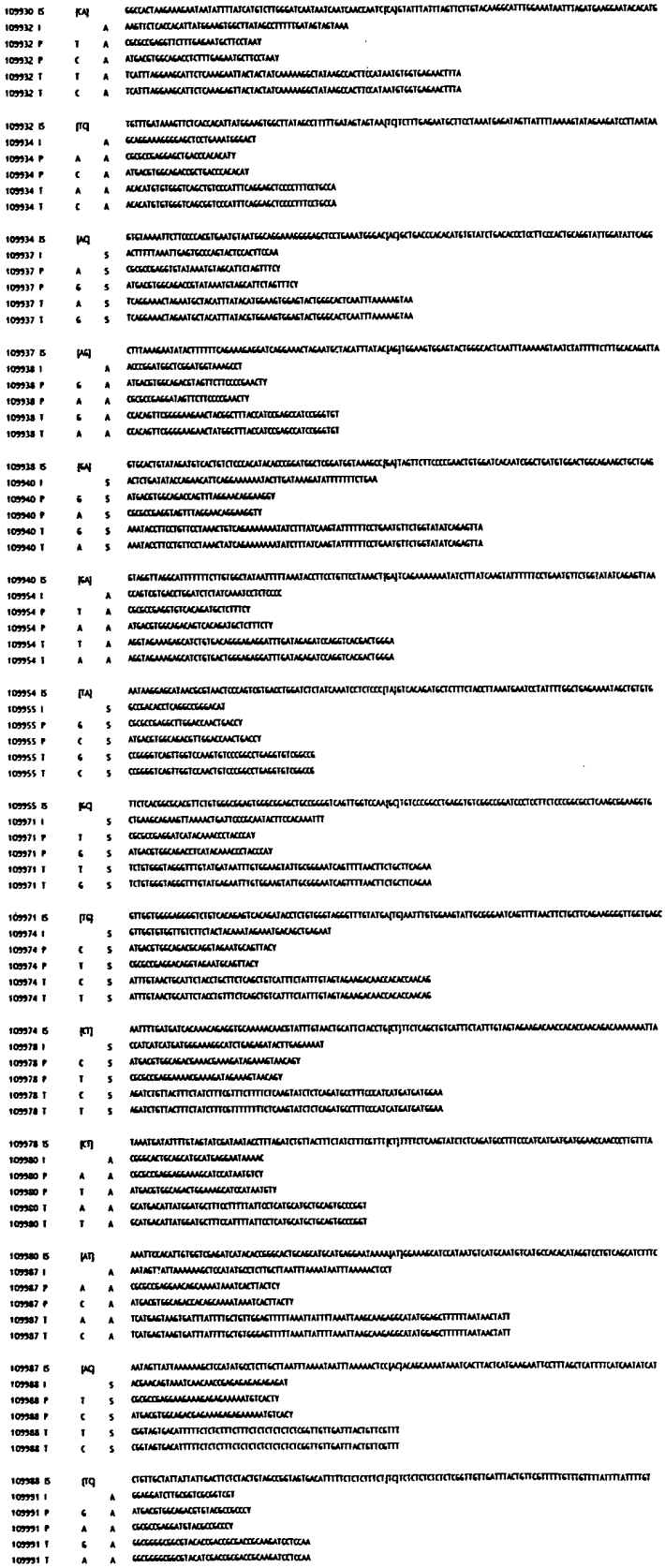


FIGURE 129G



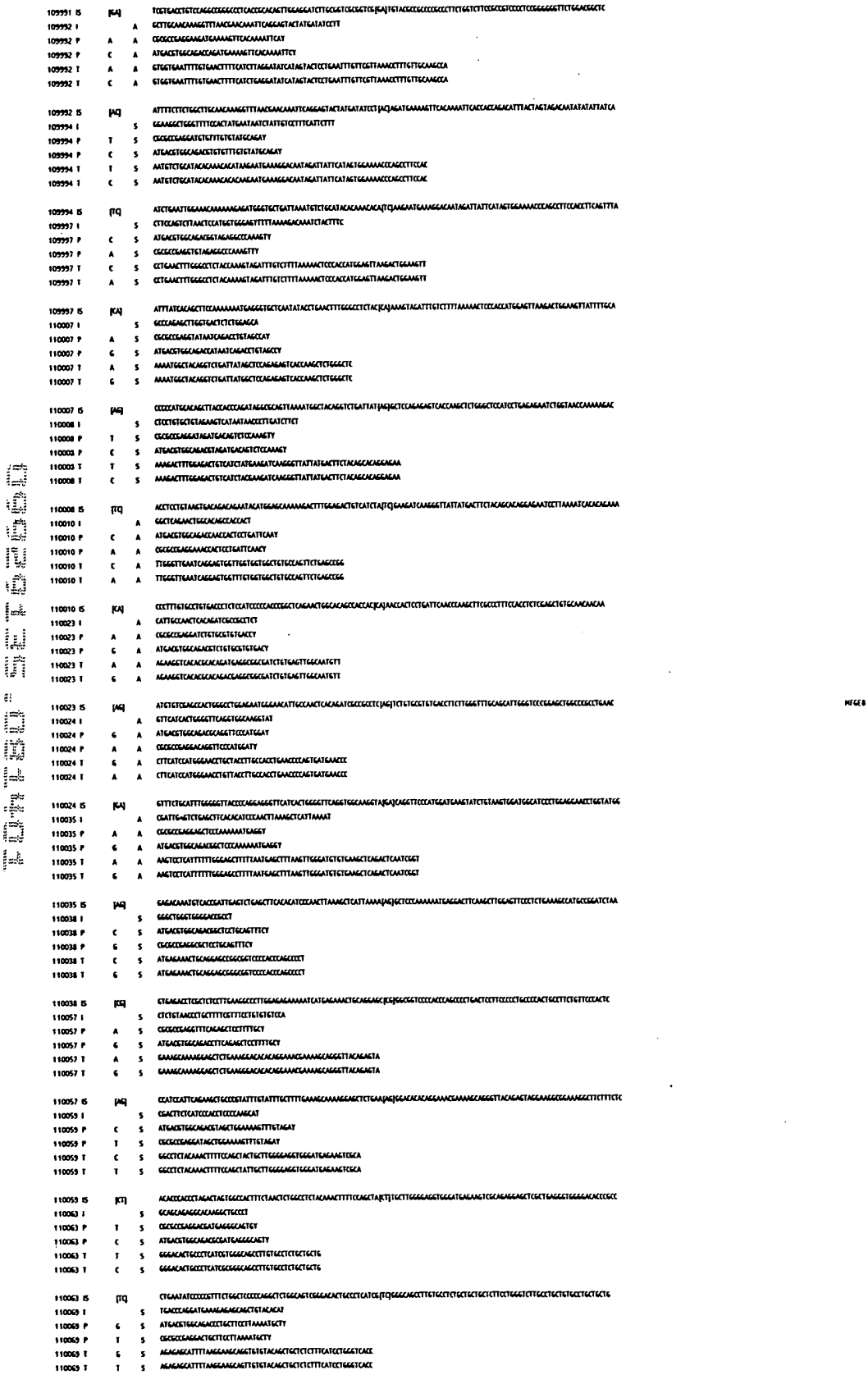
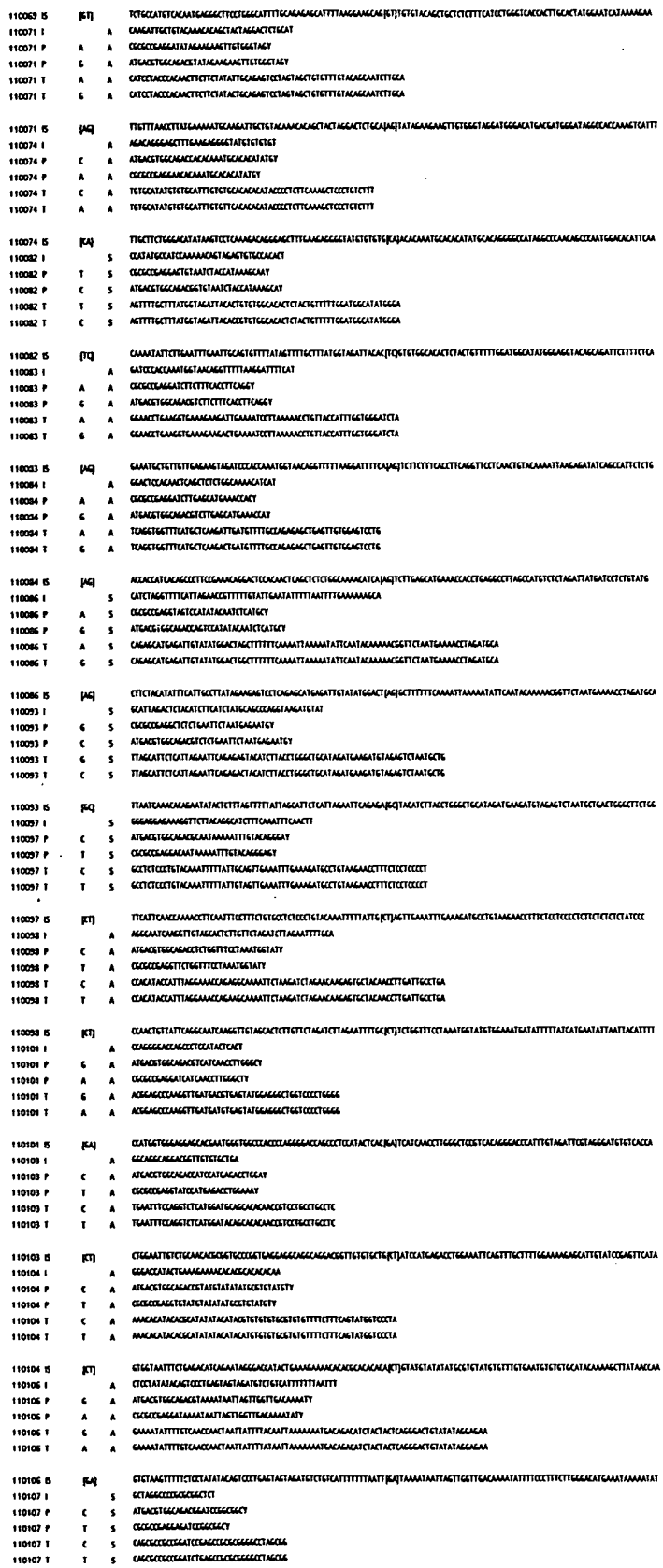
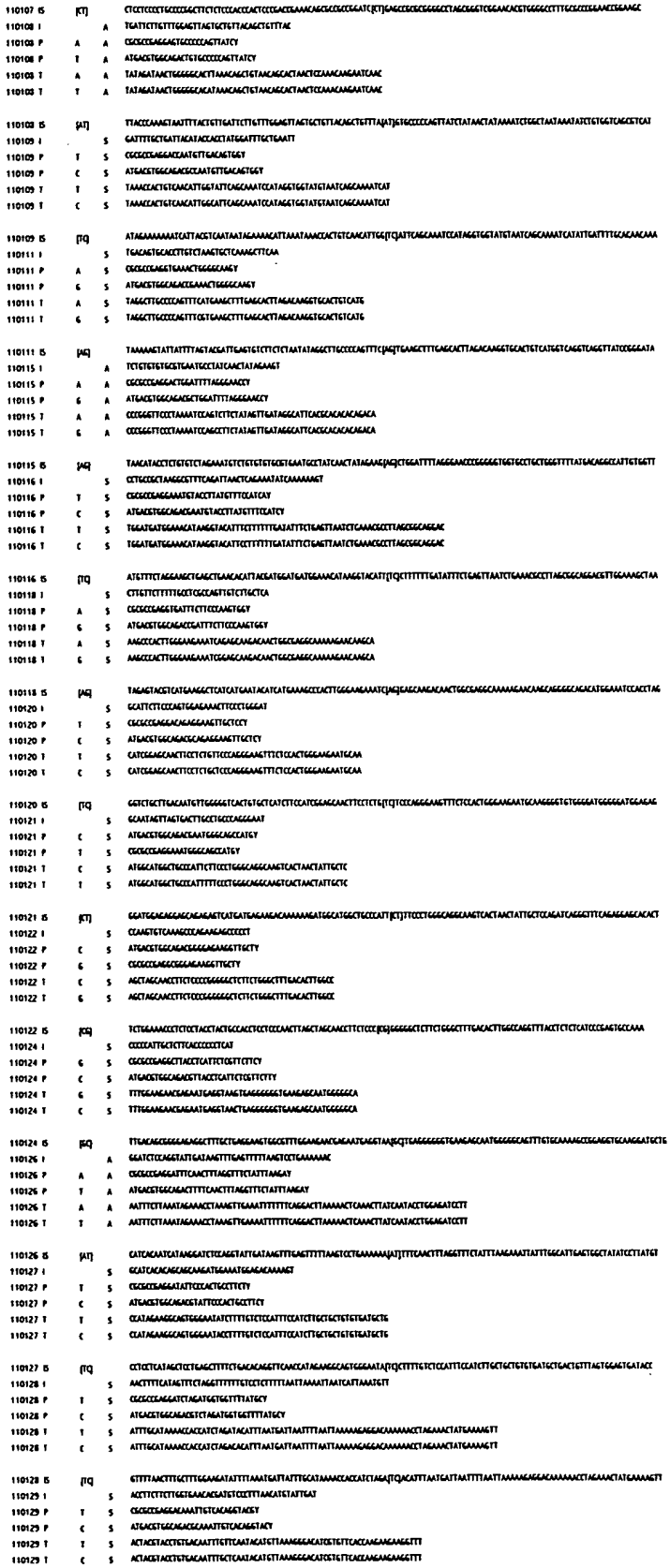
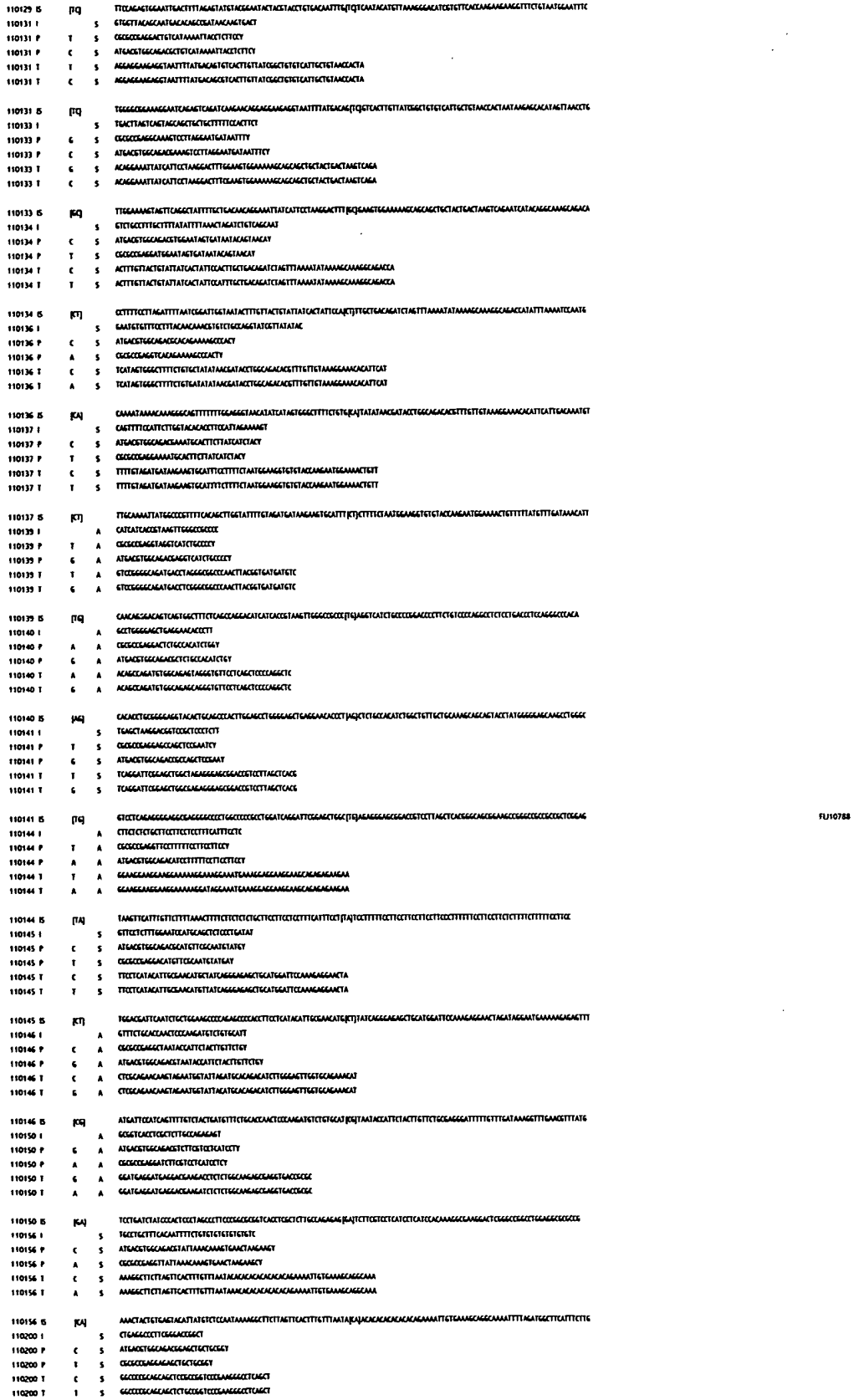
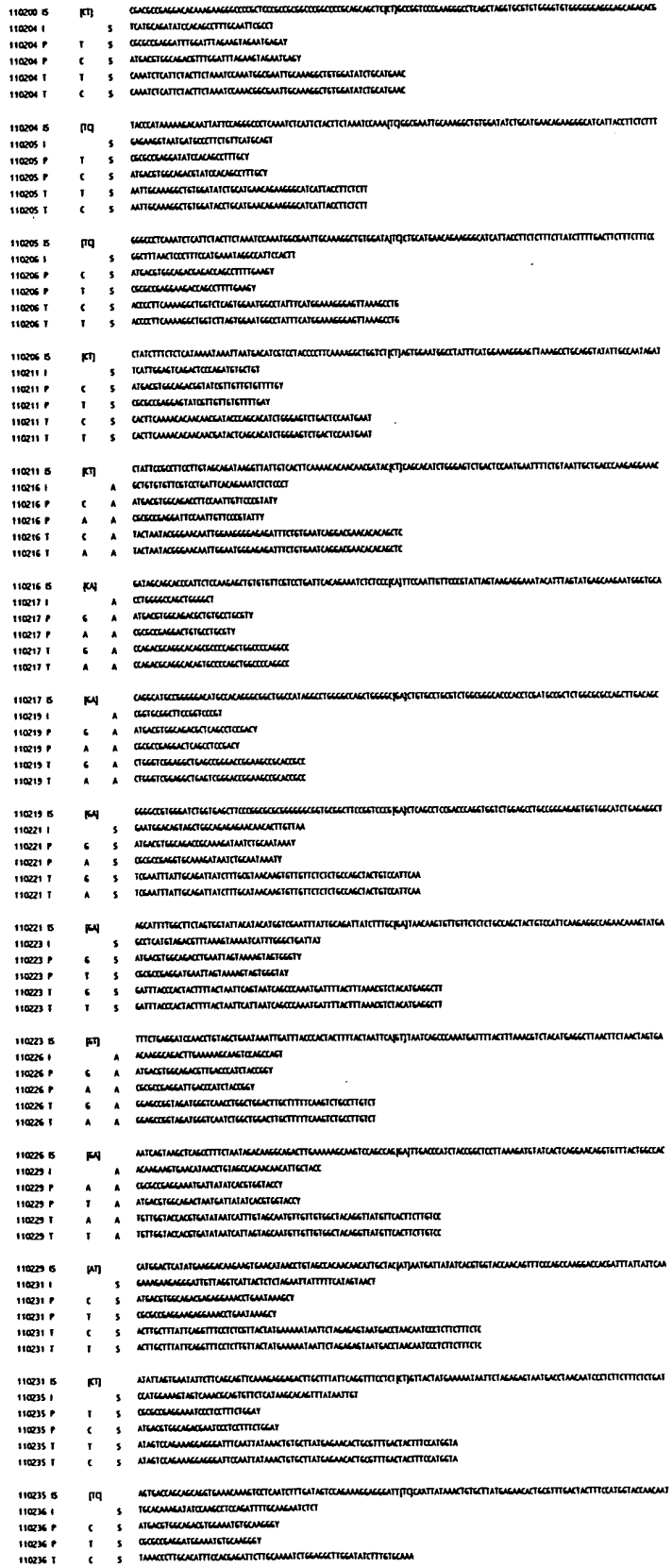


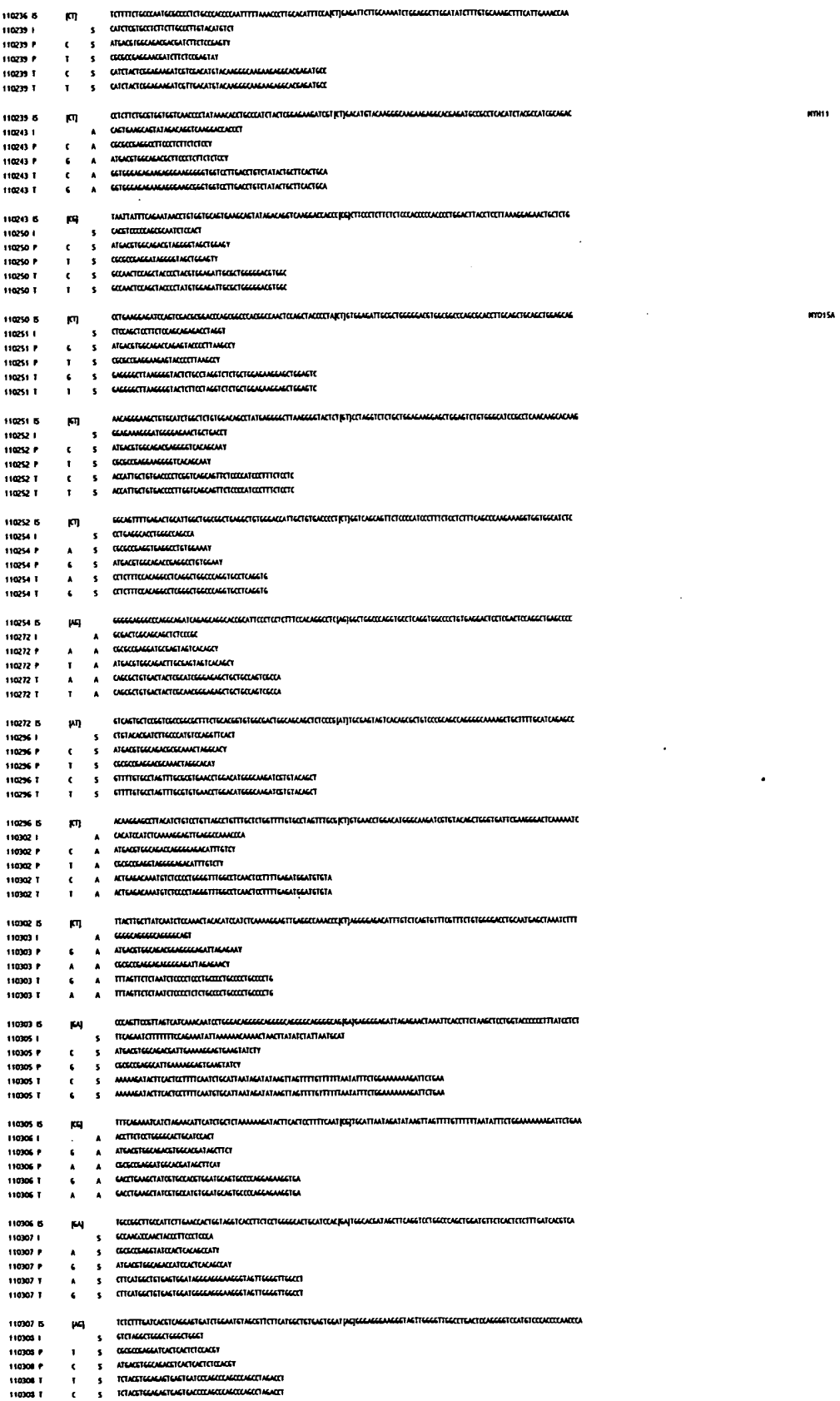
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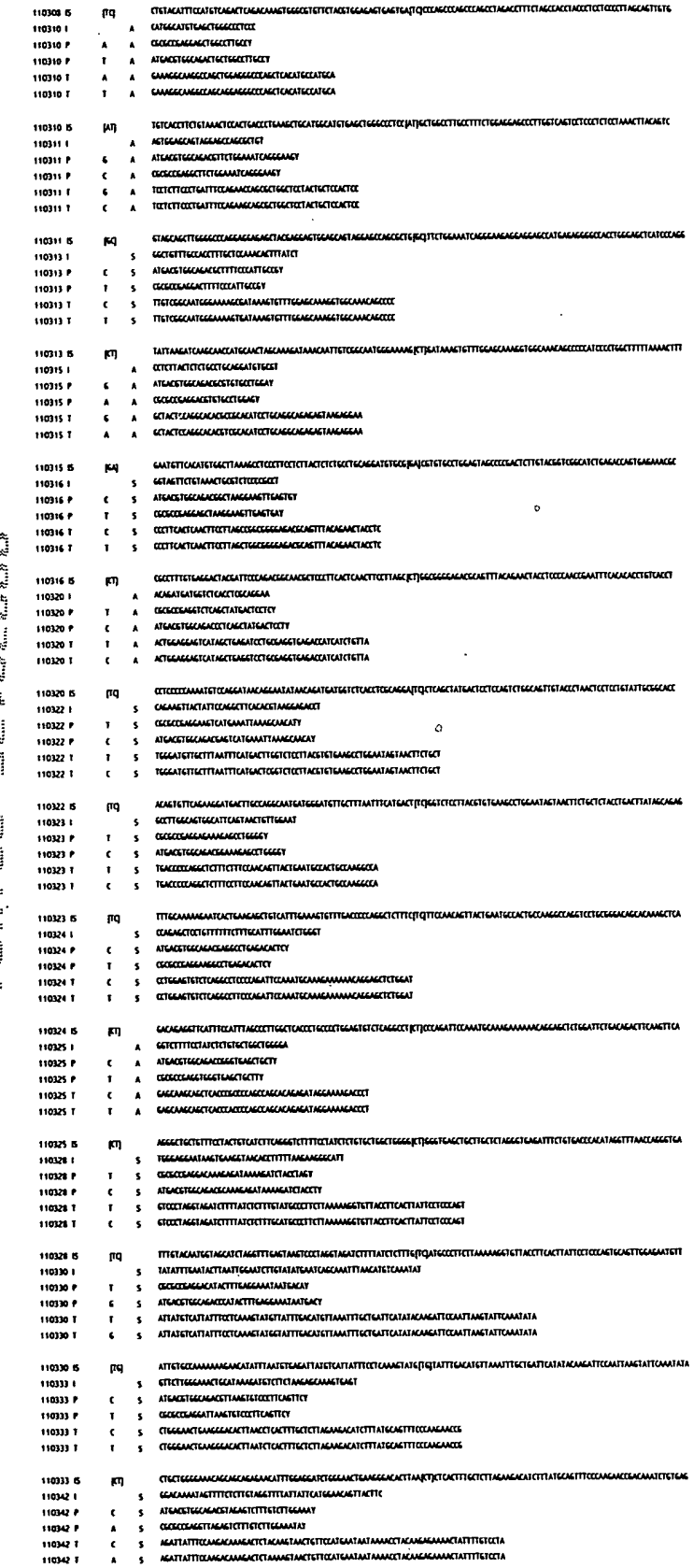












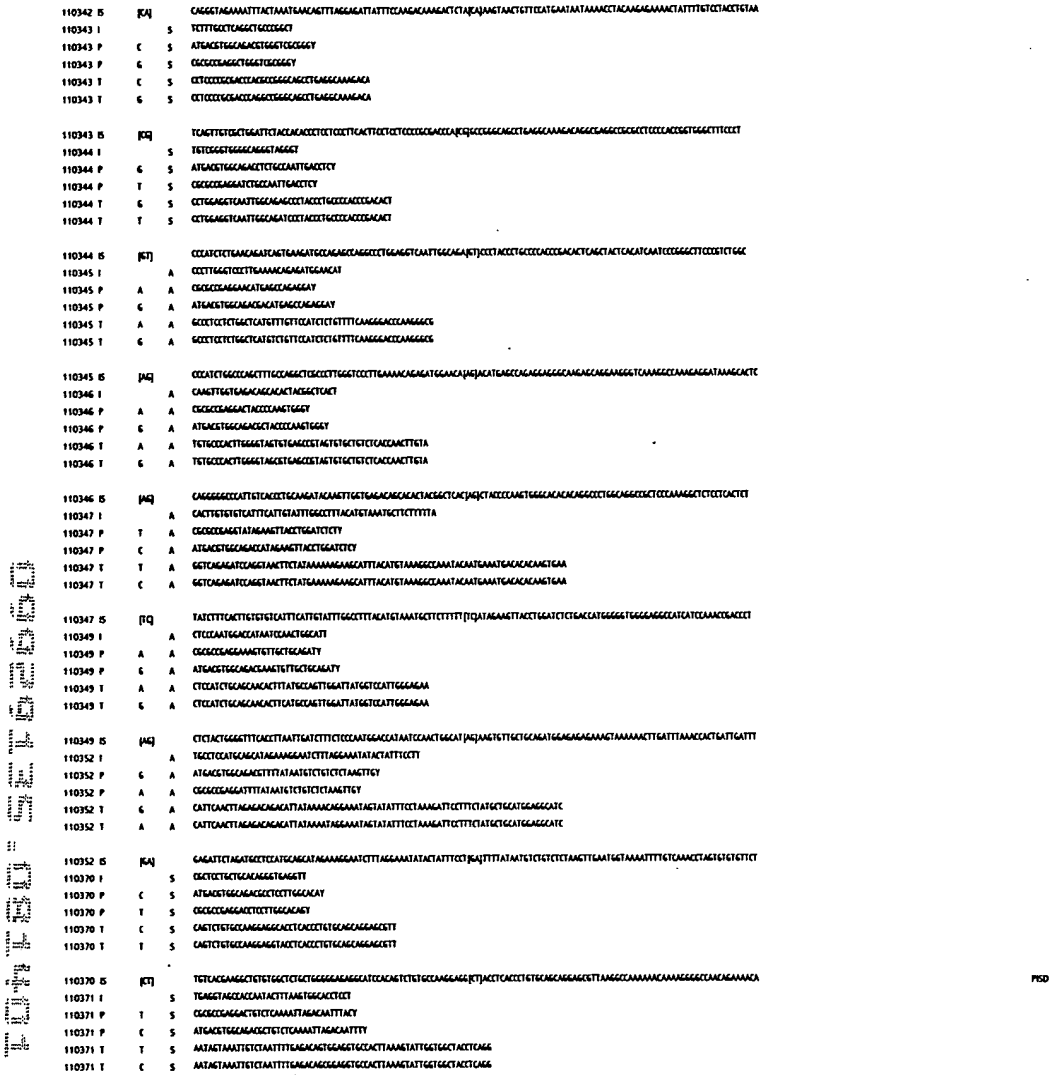
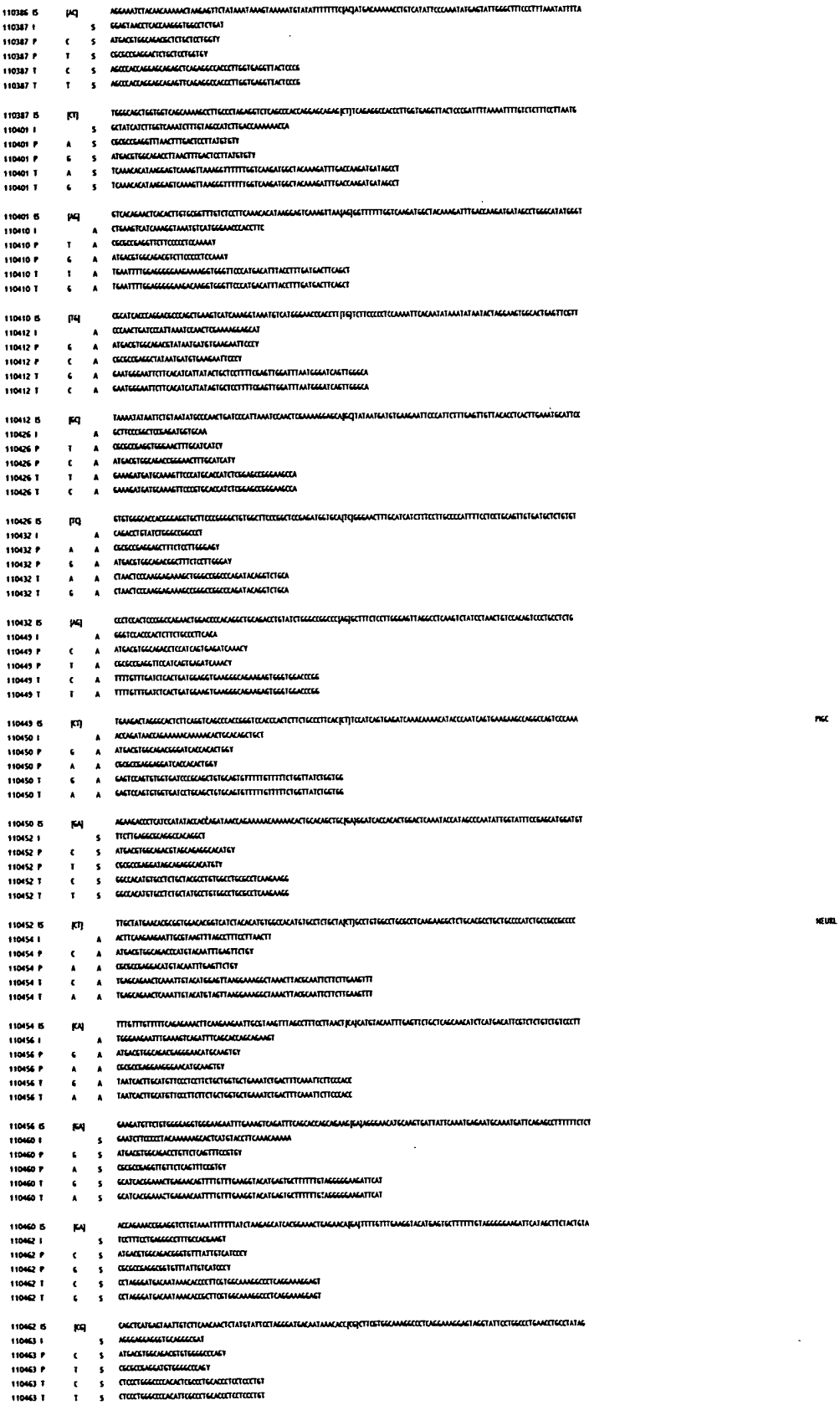


FIGURE 129G



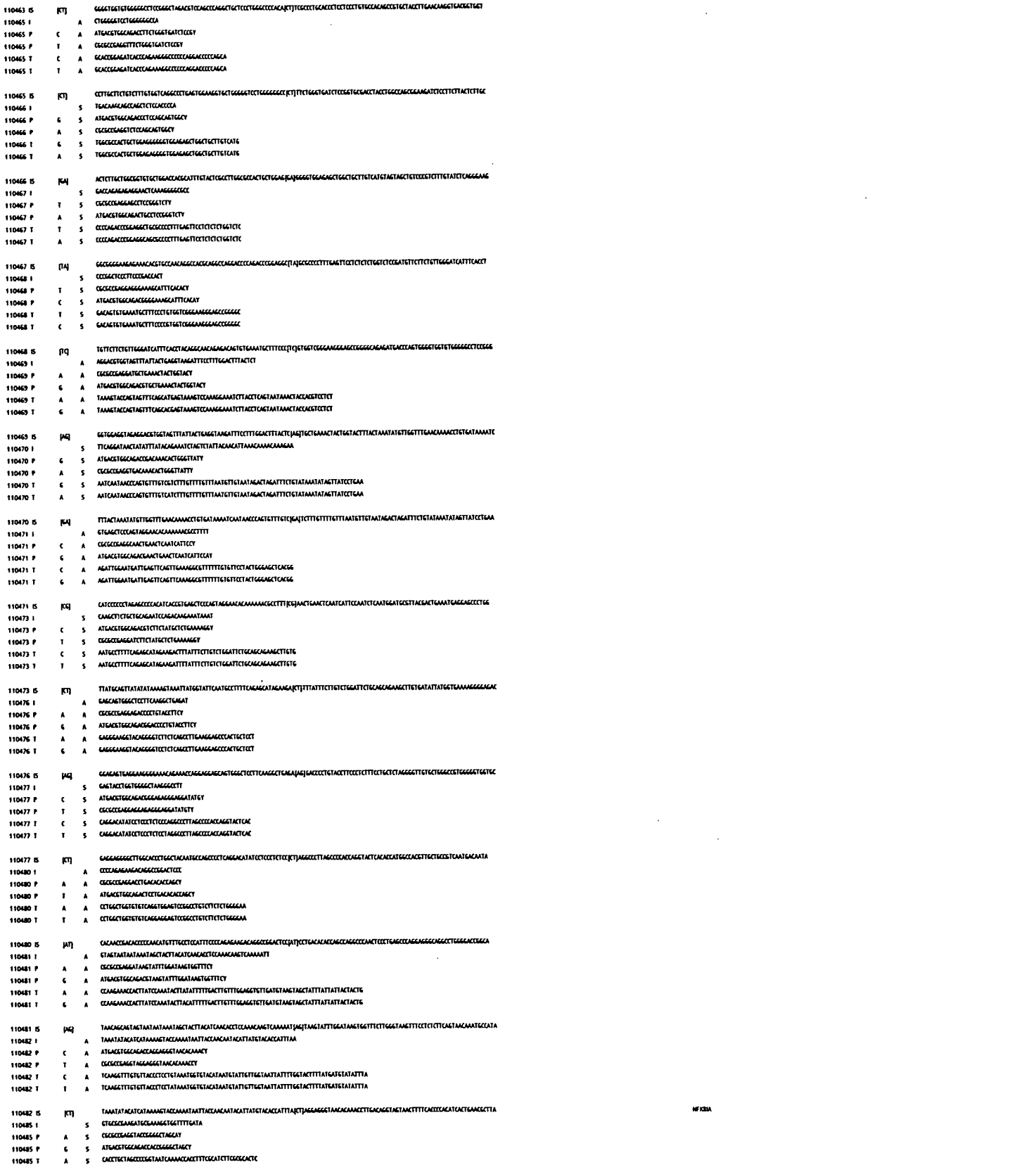
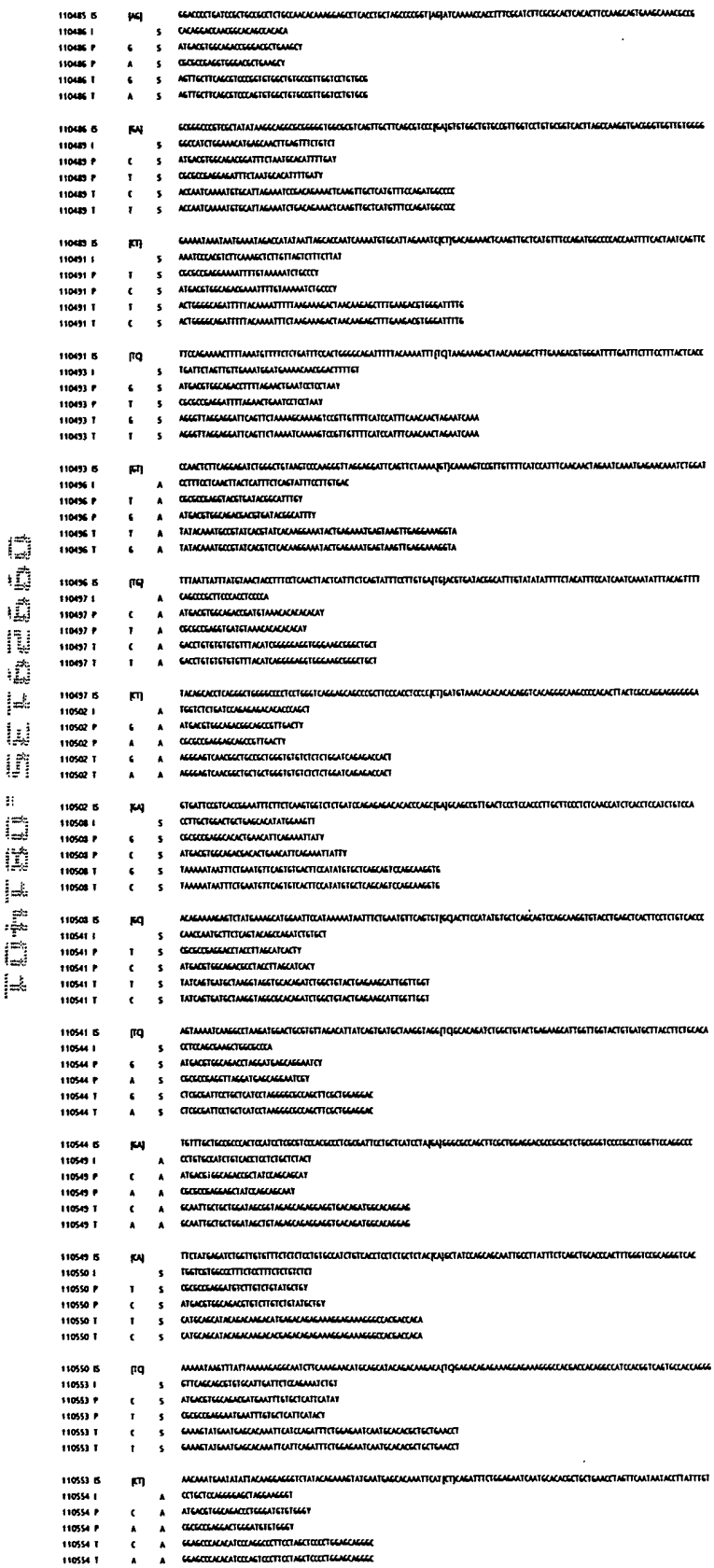


FIGURE 129G



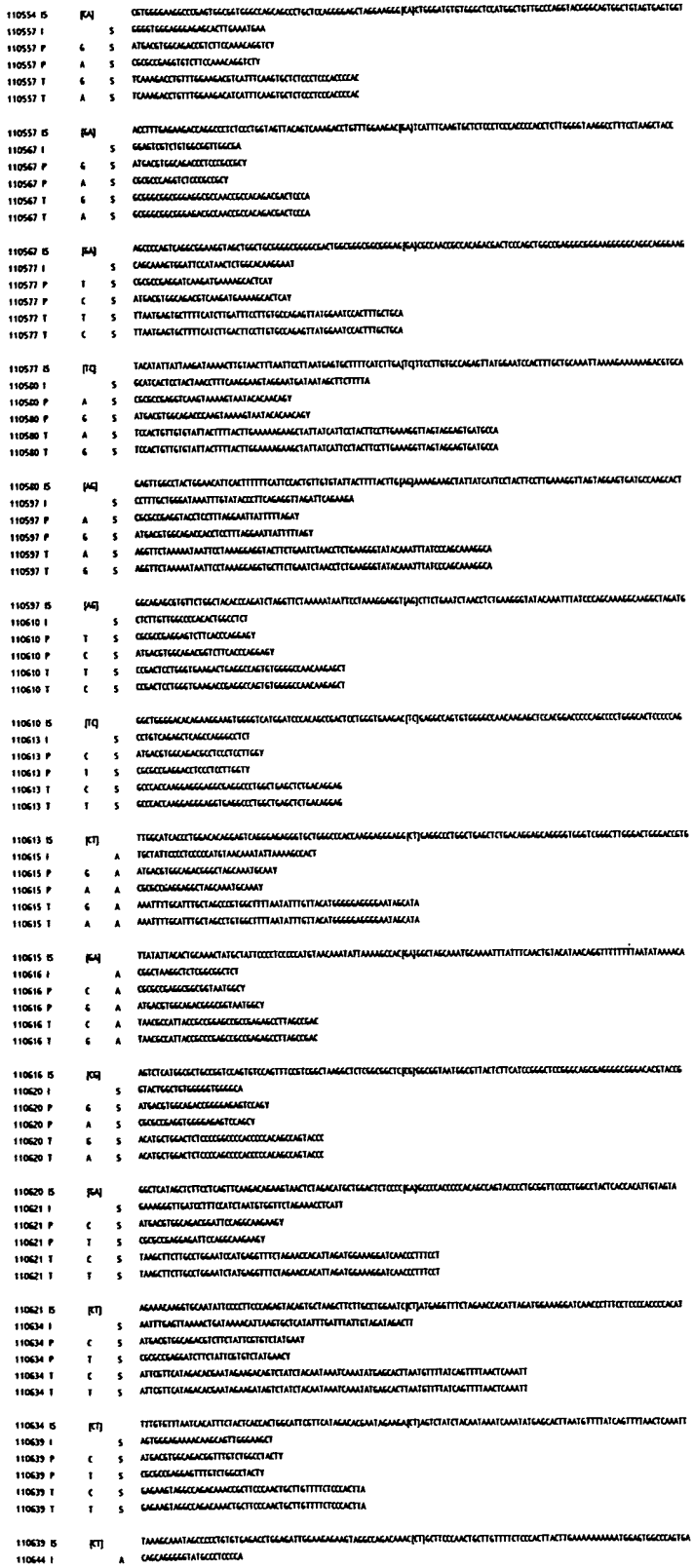


FIGURE 129G

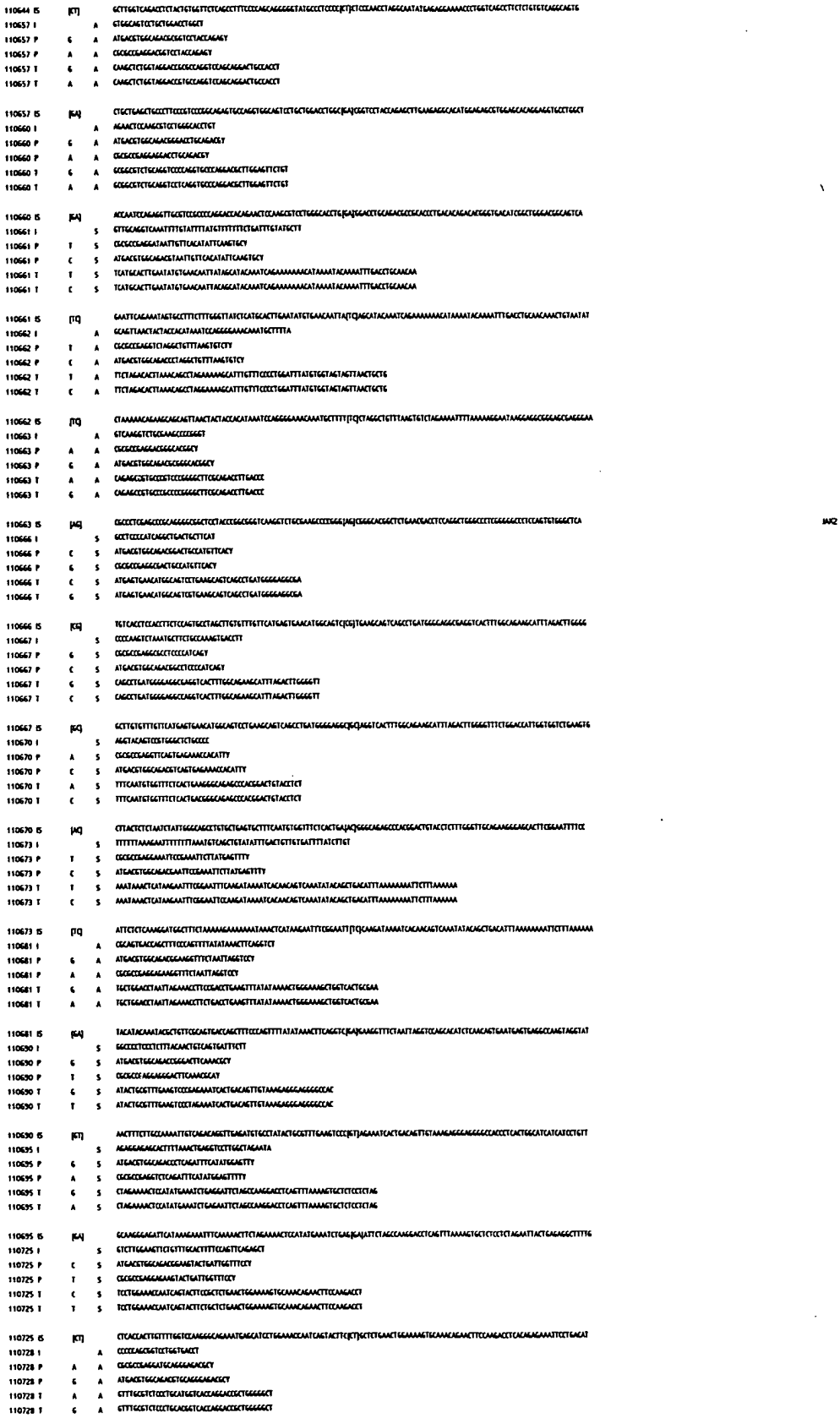
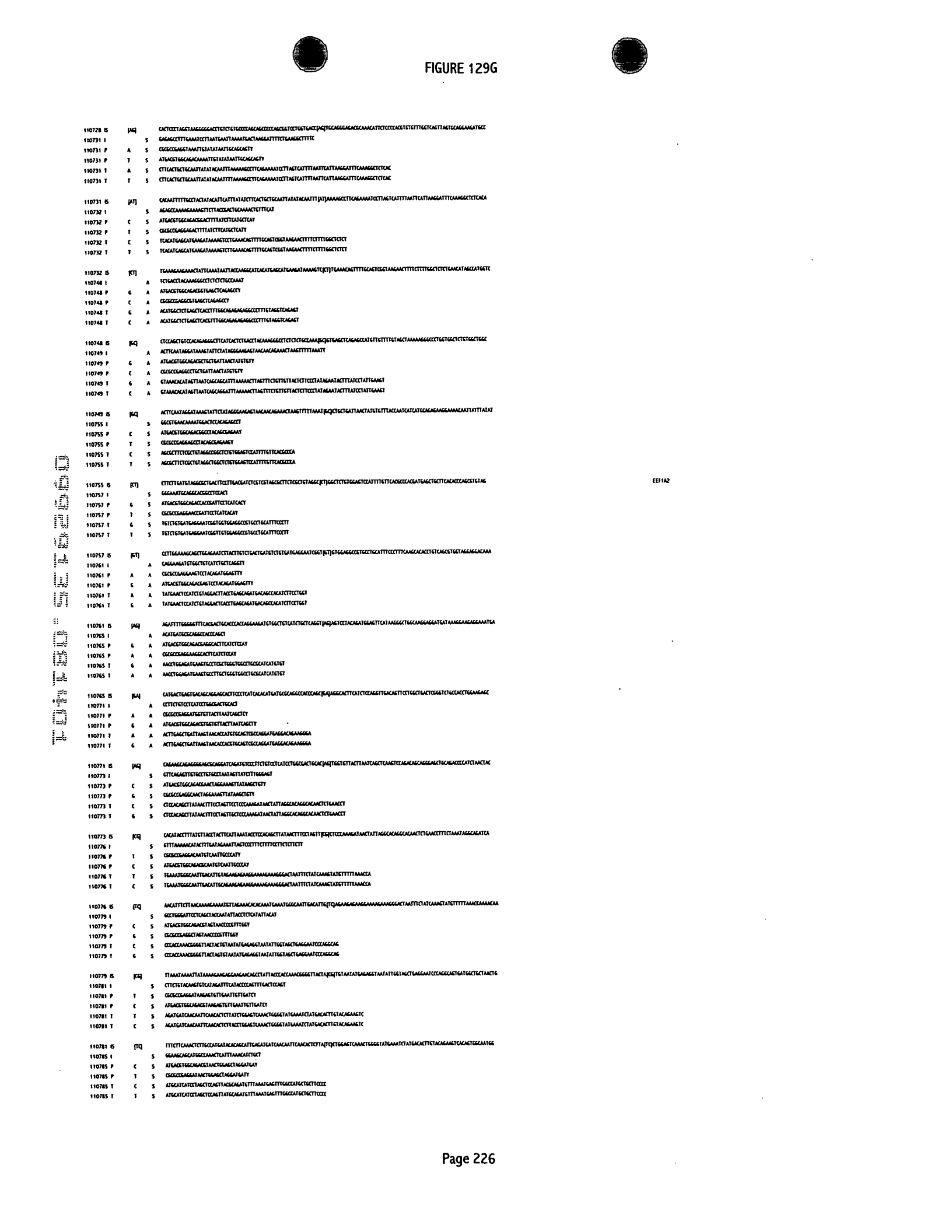
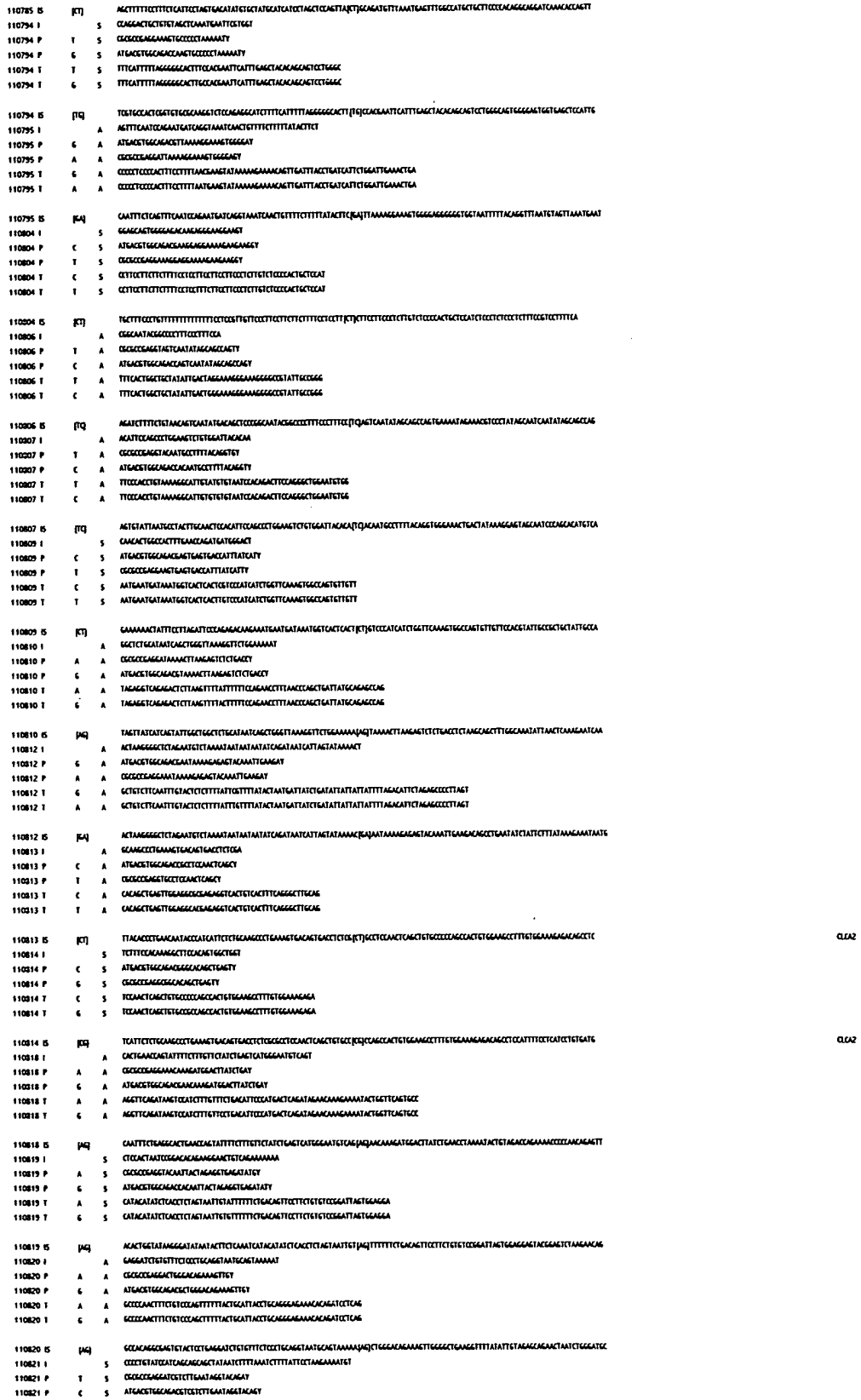
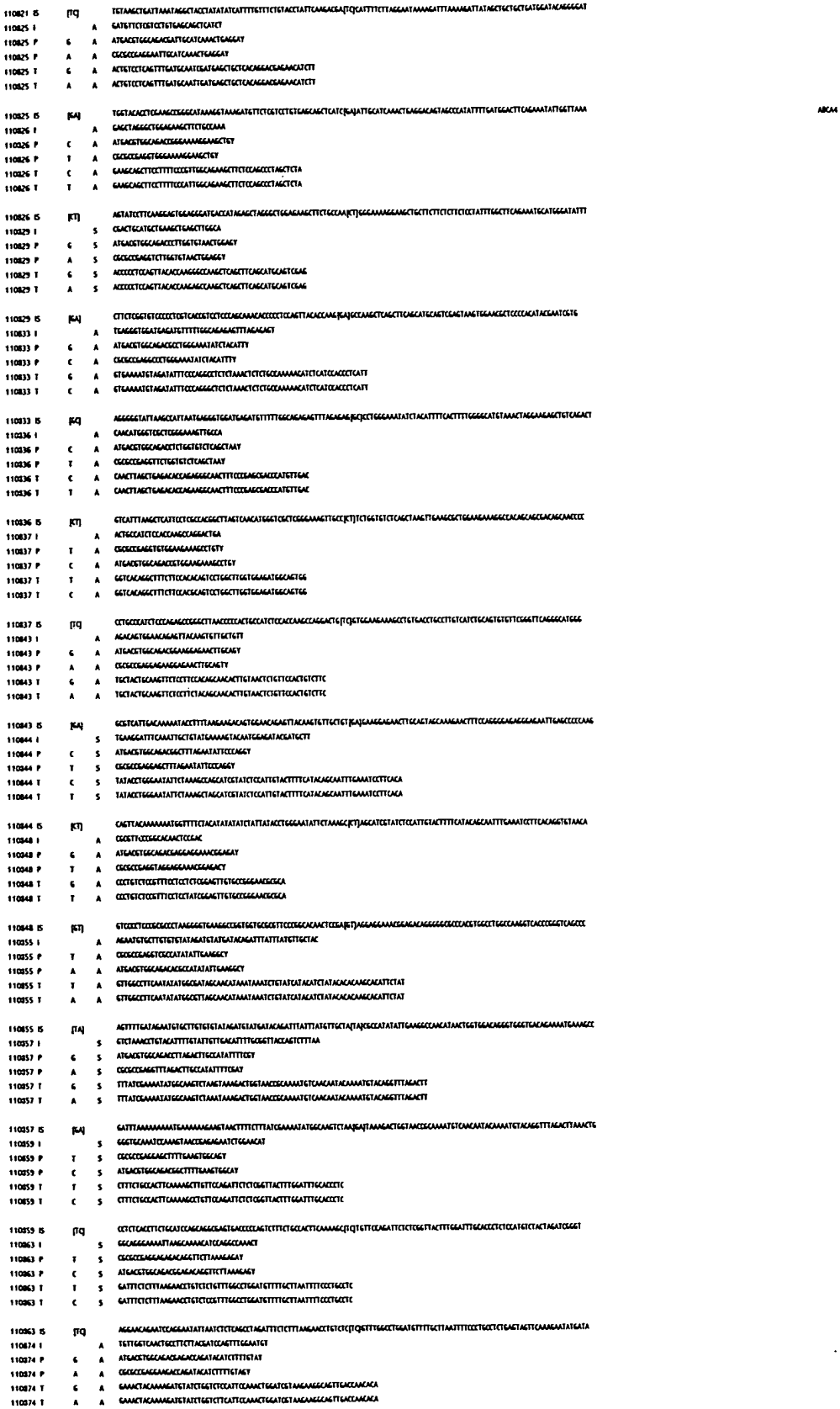
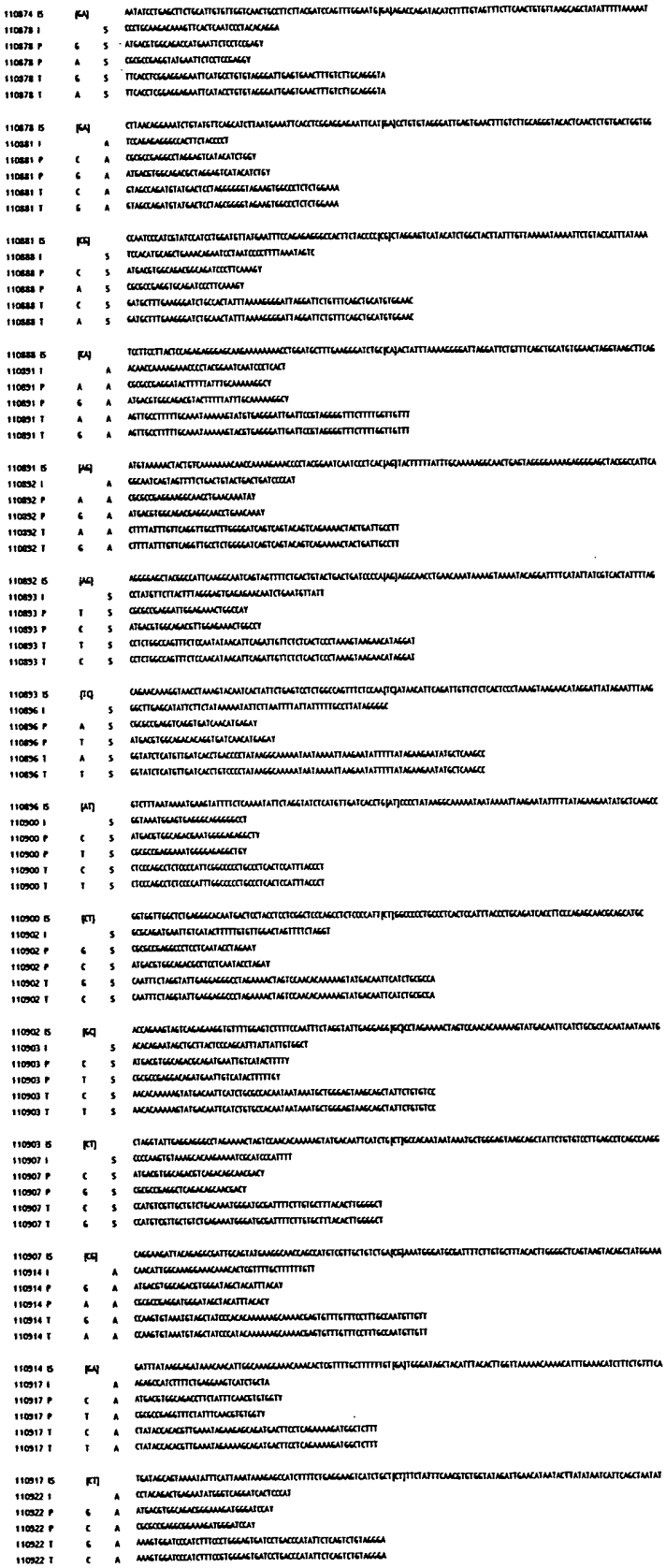


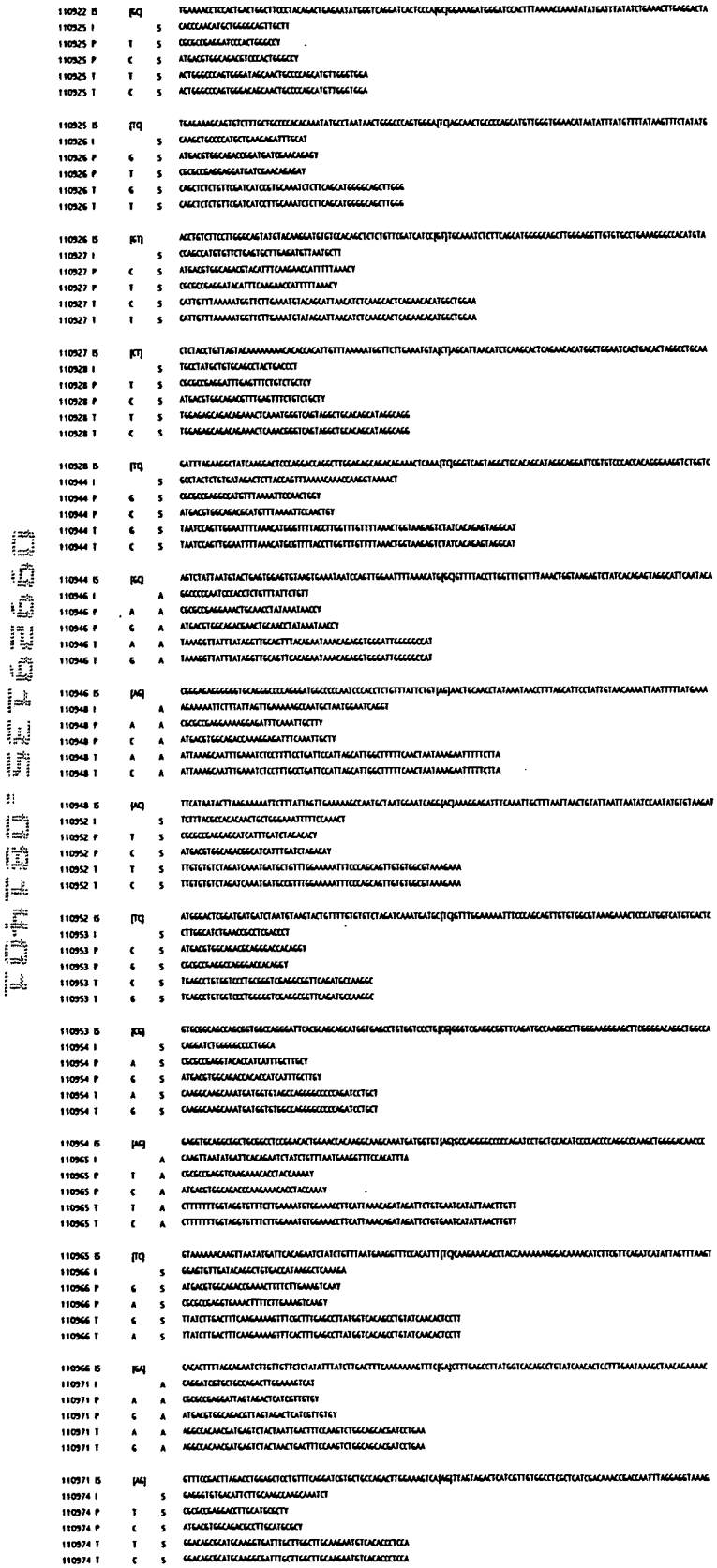
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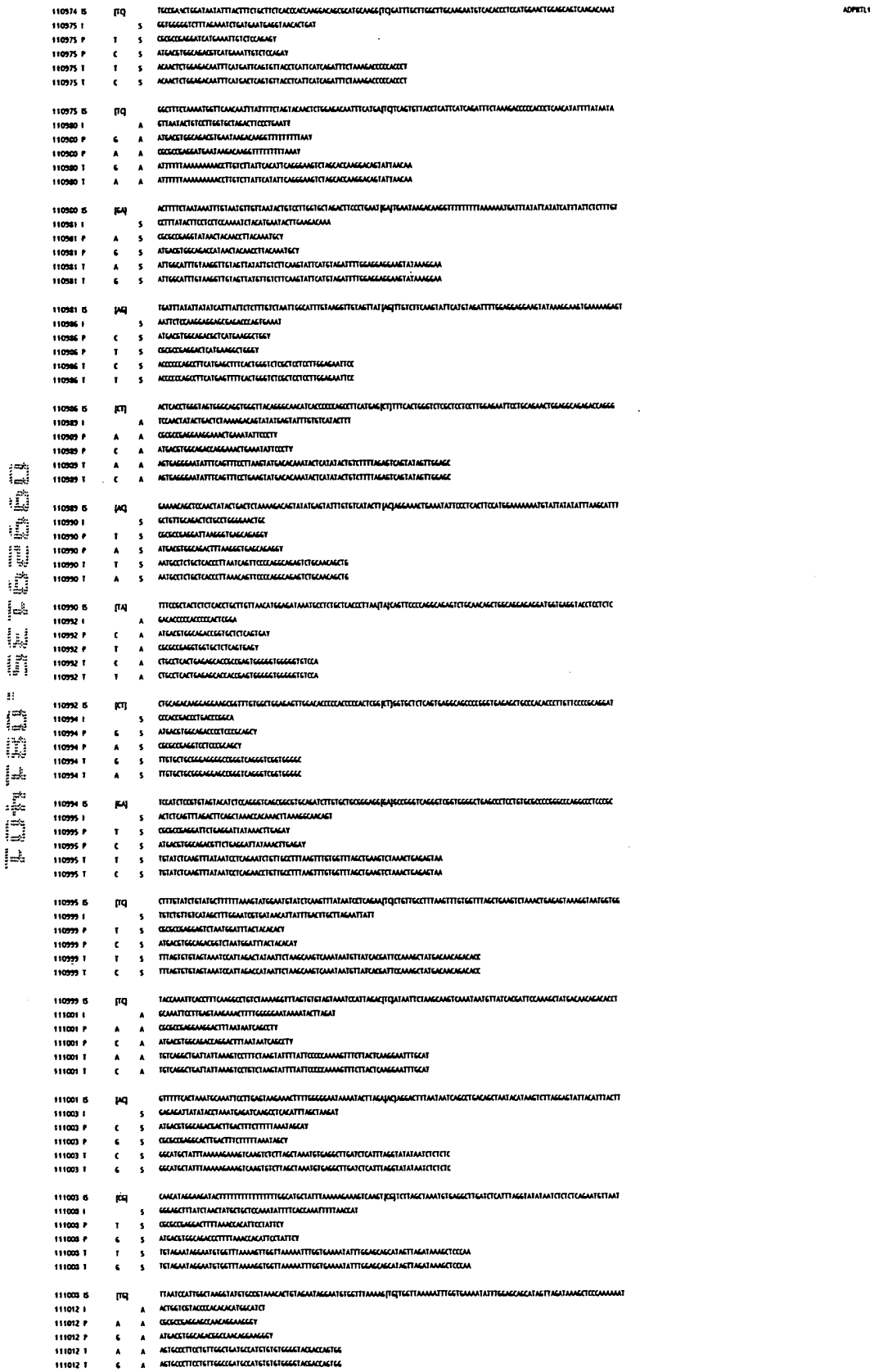


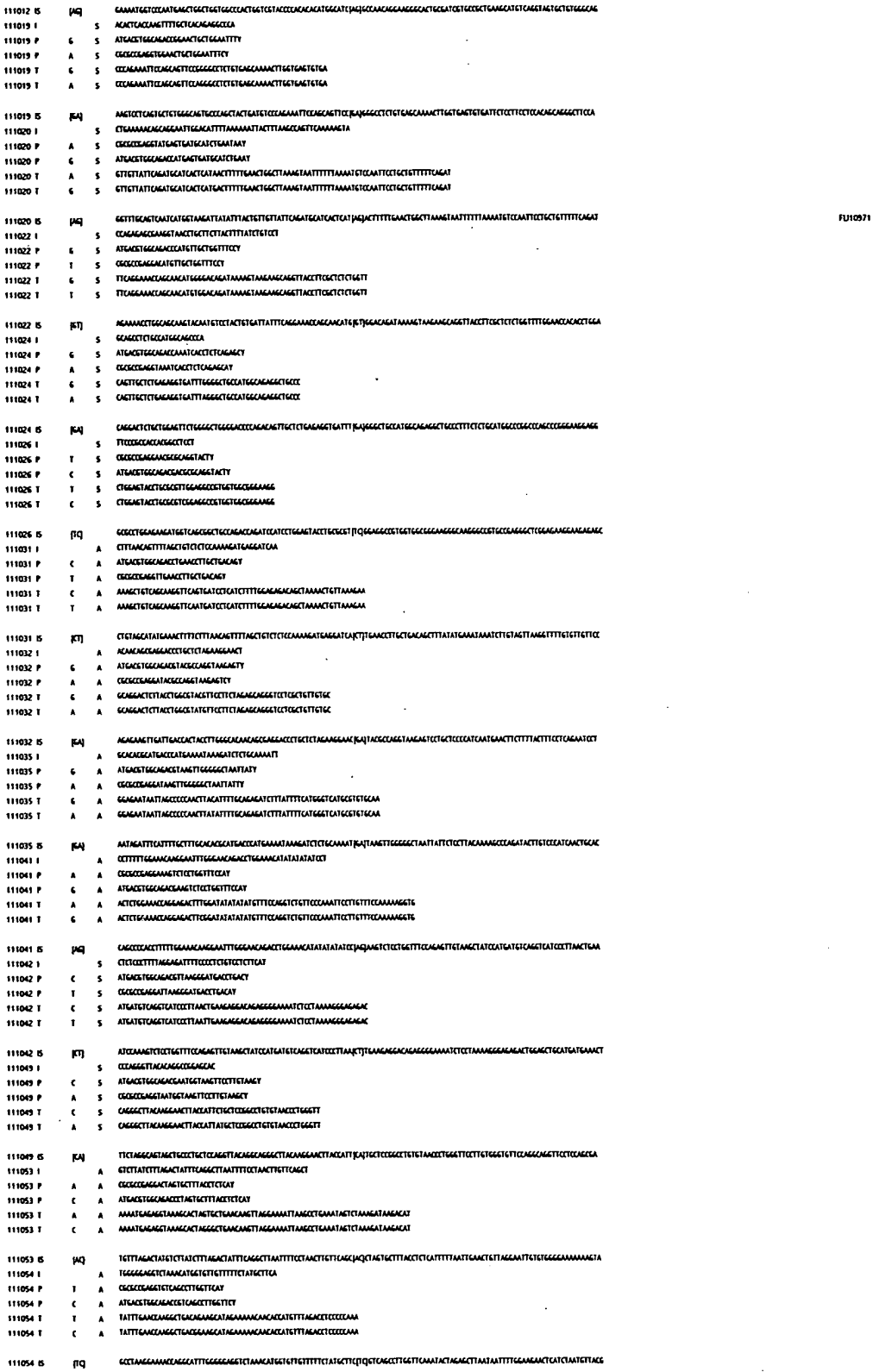












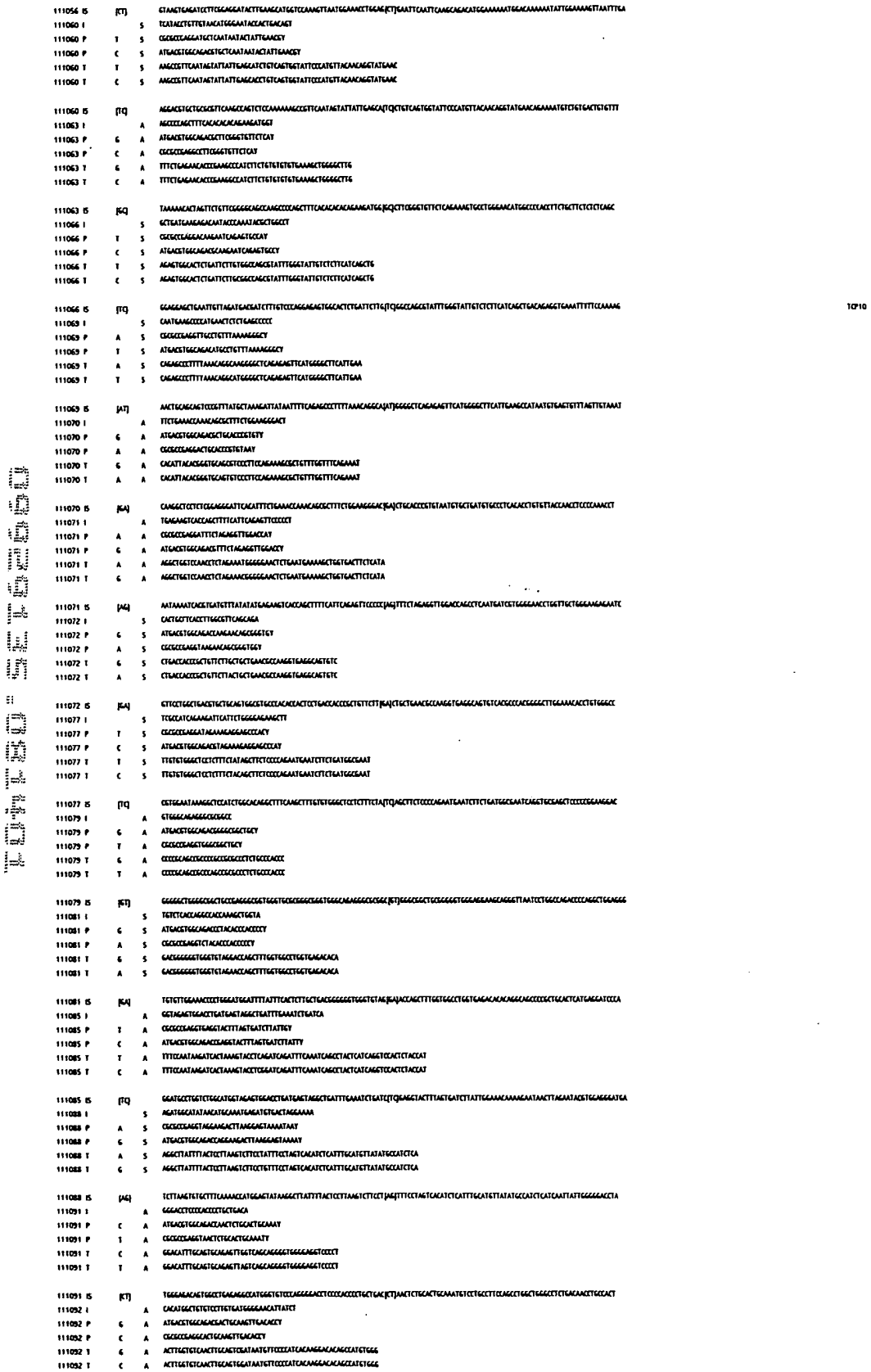


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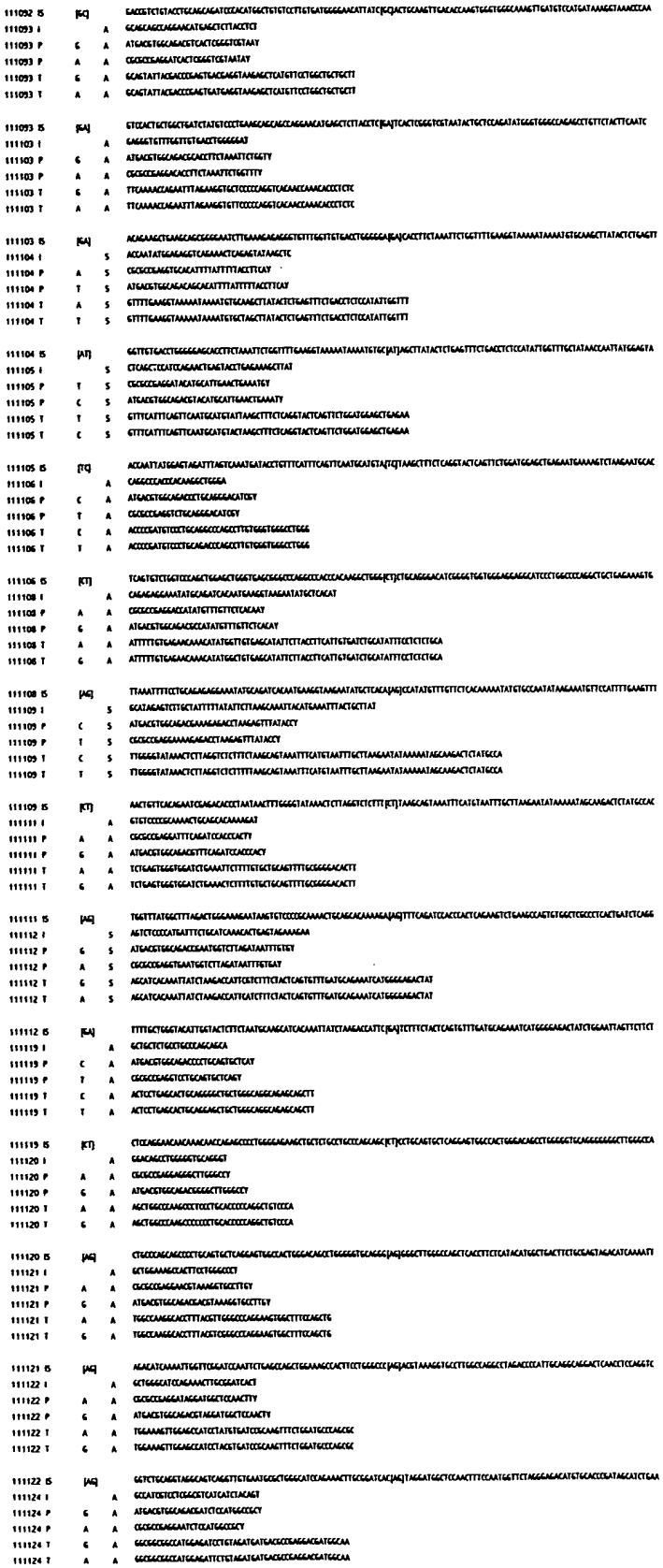
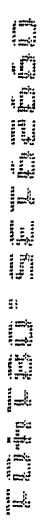


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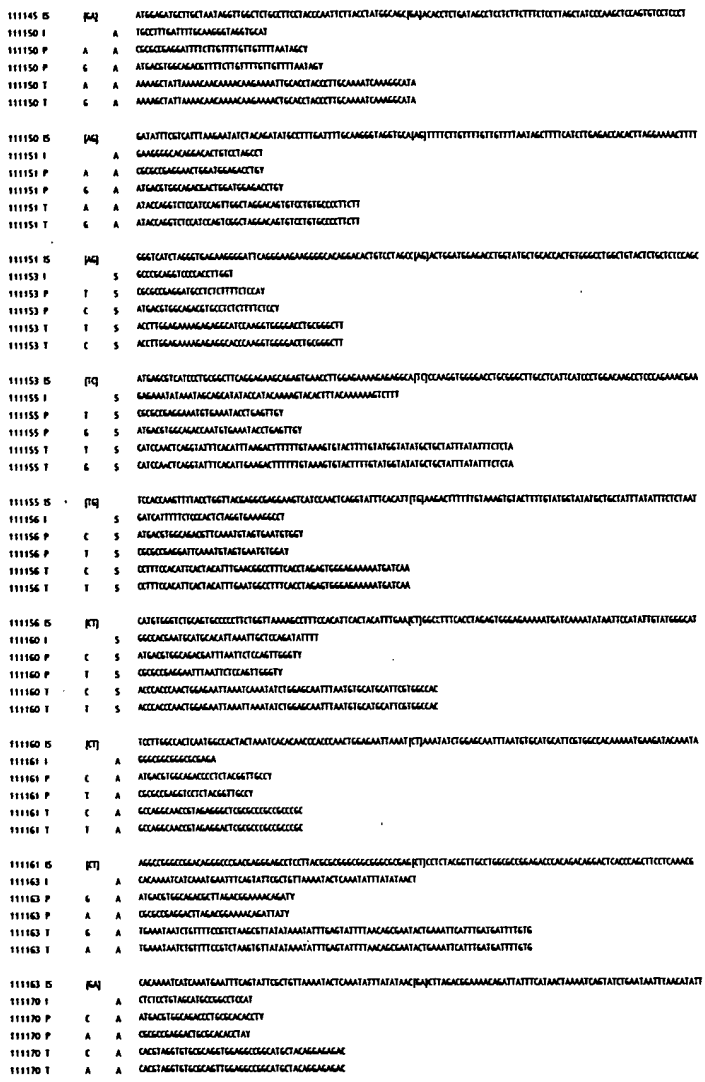


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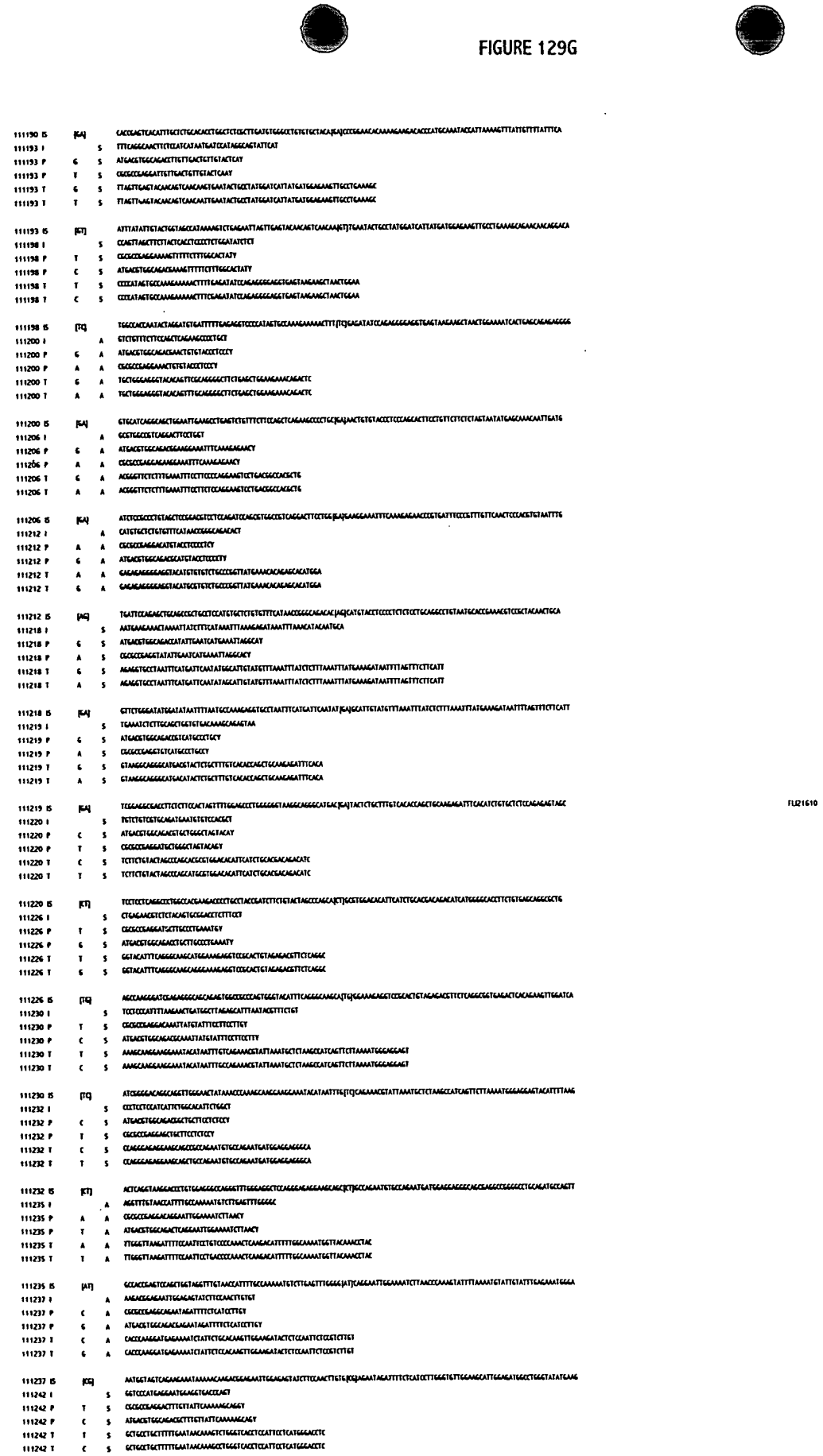


FIGURE 129G

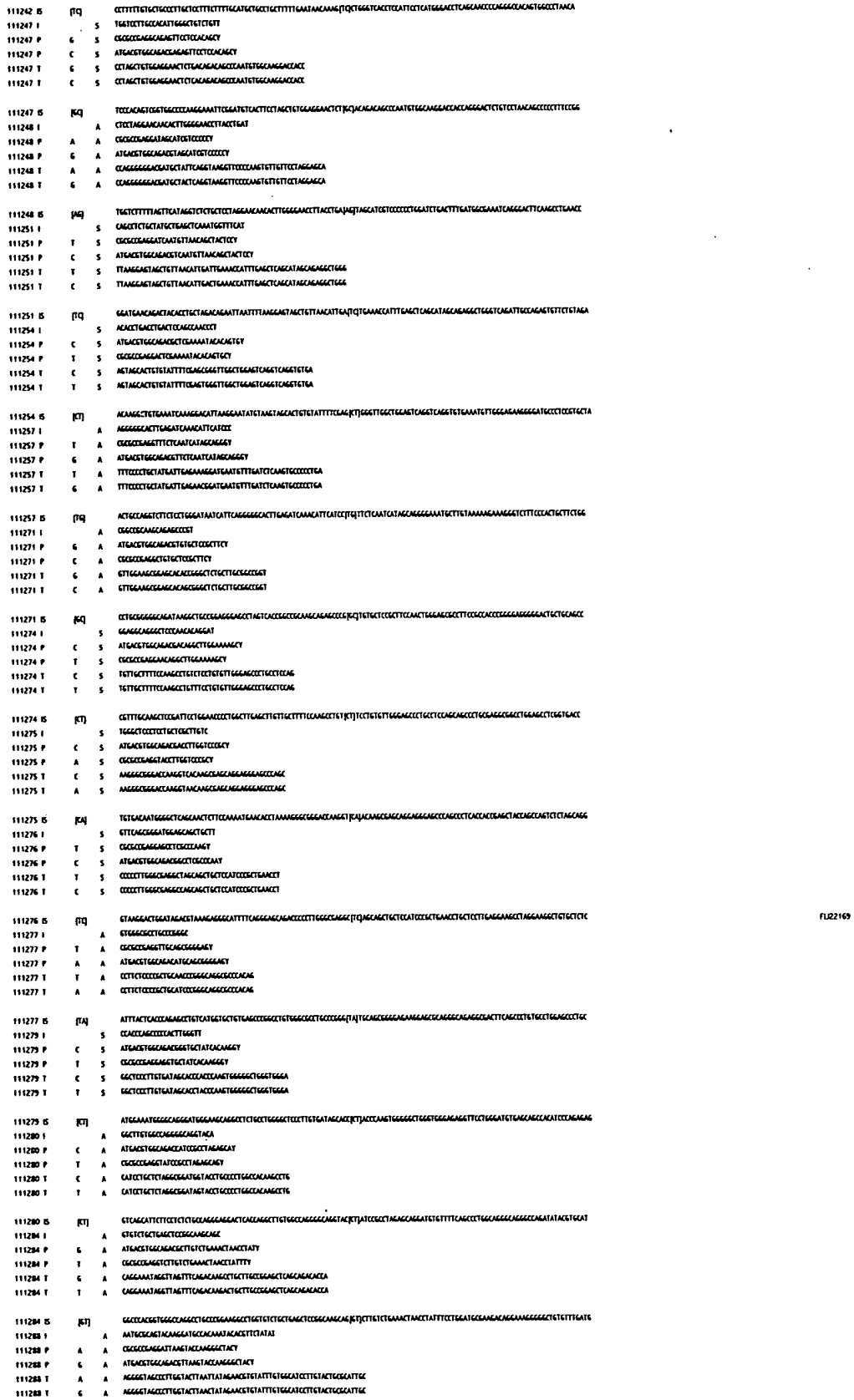


FIGURE 129G

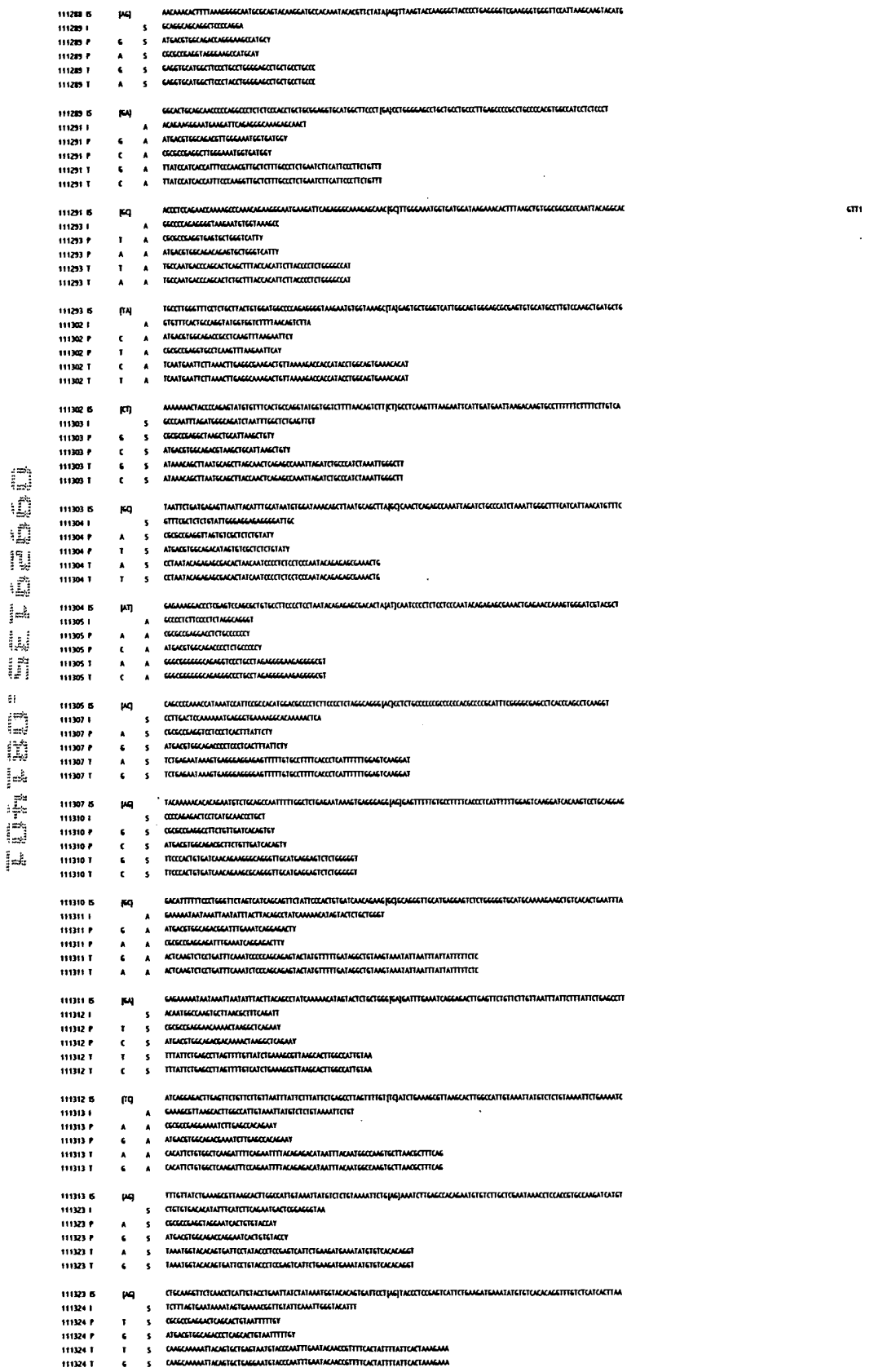
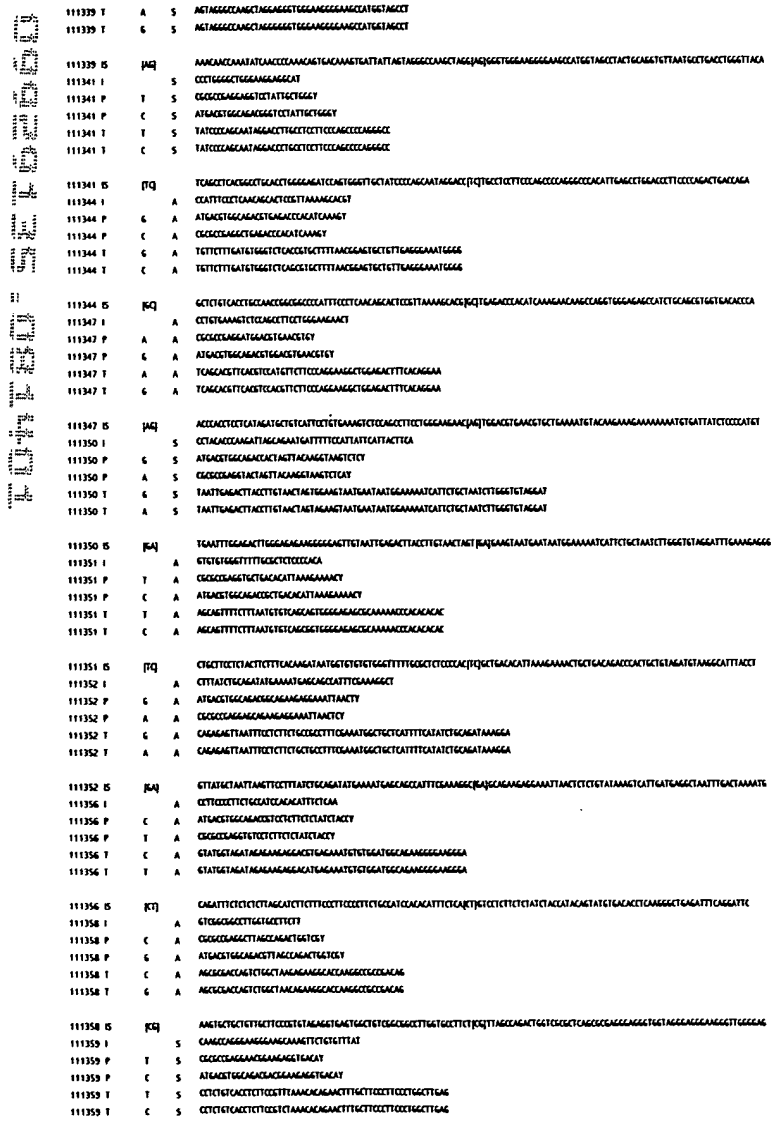
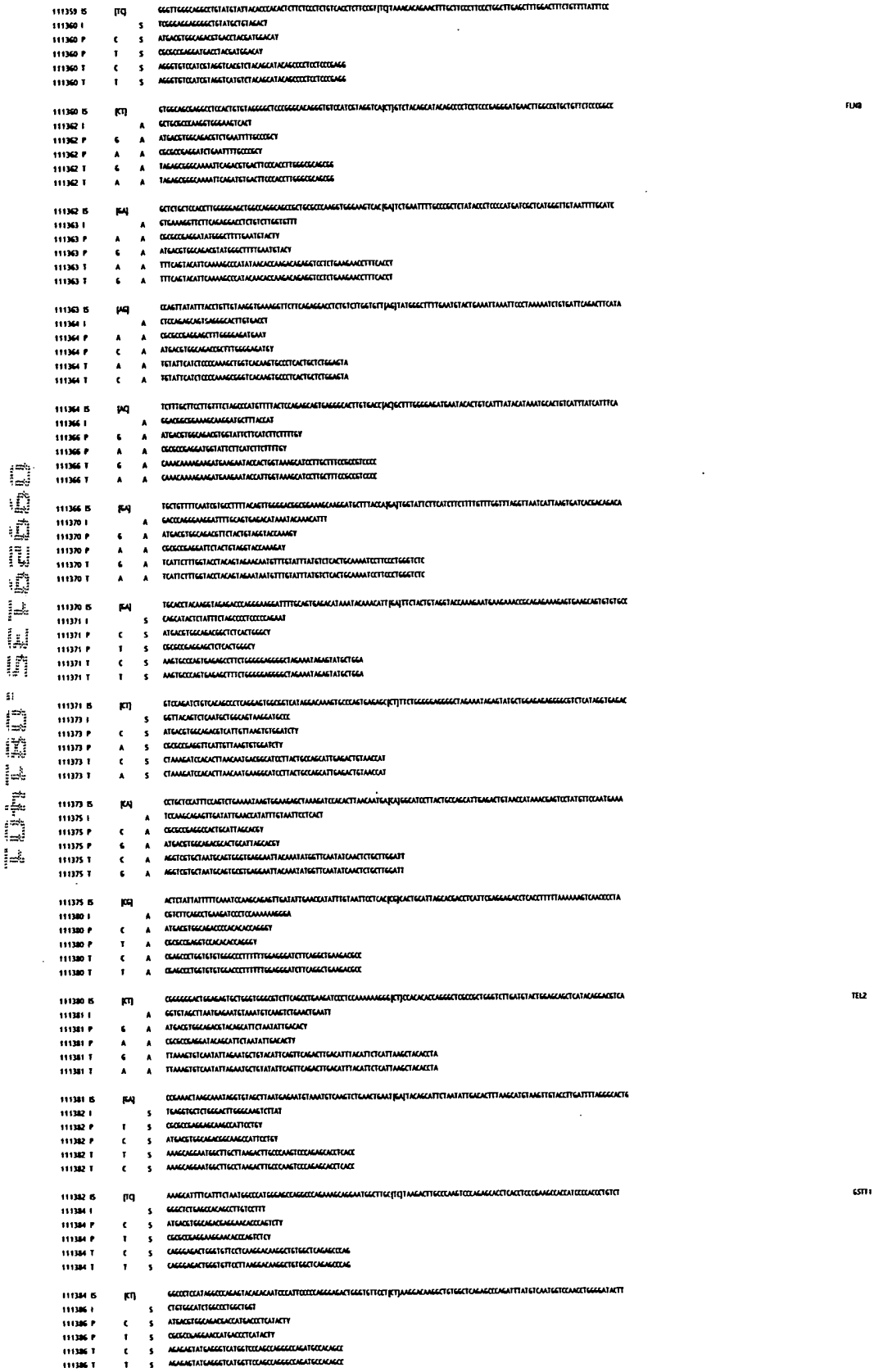


FIGURE 129G





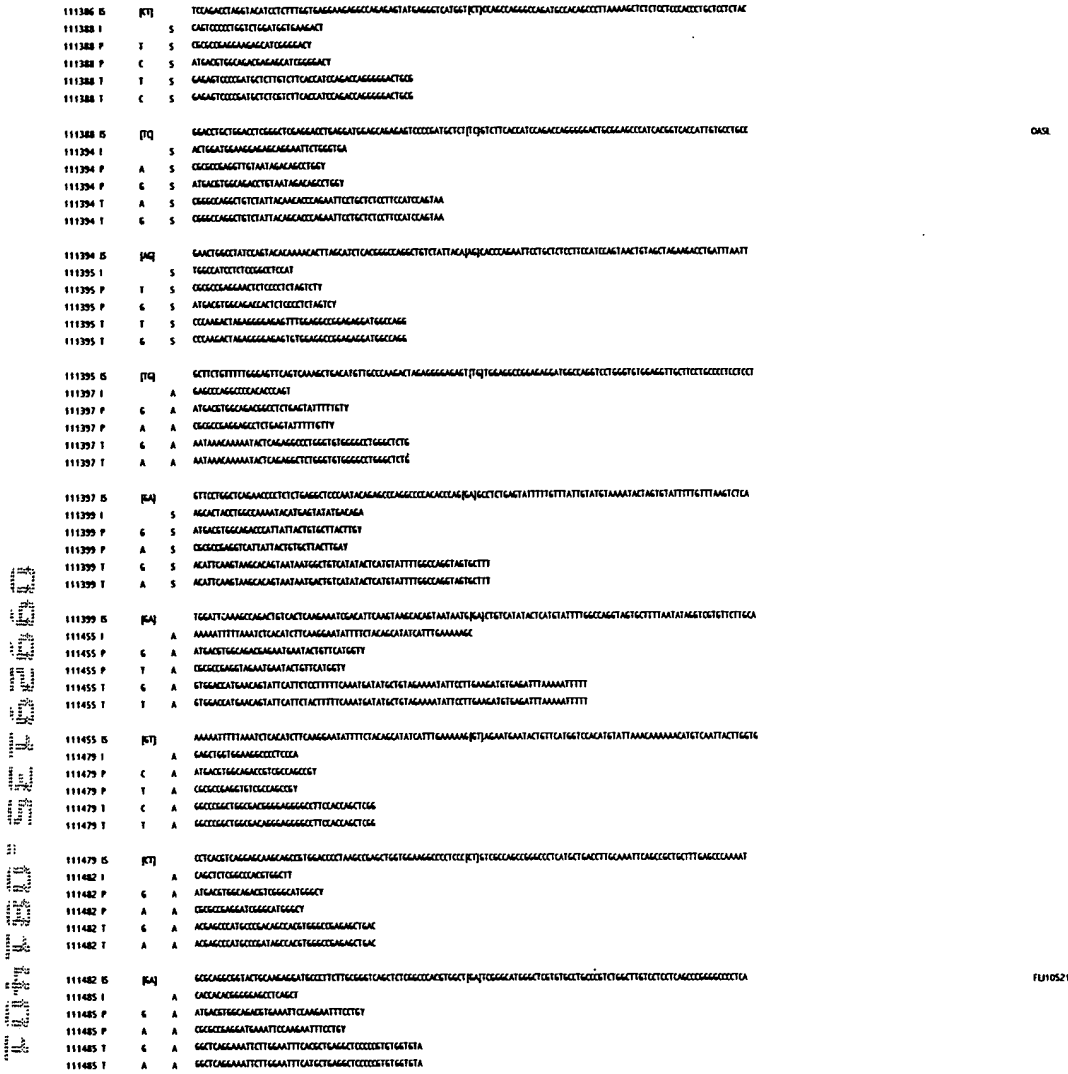


FIGURE 129G

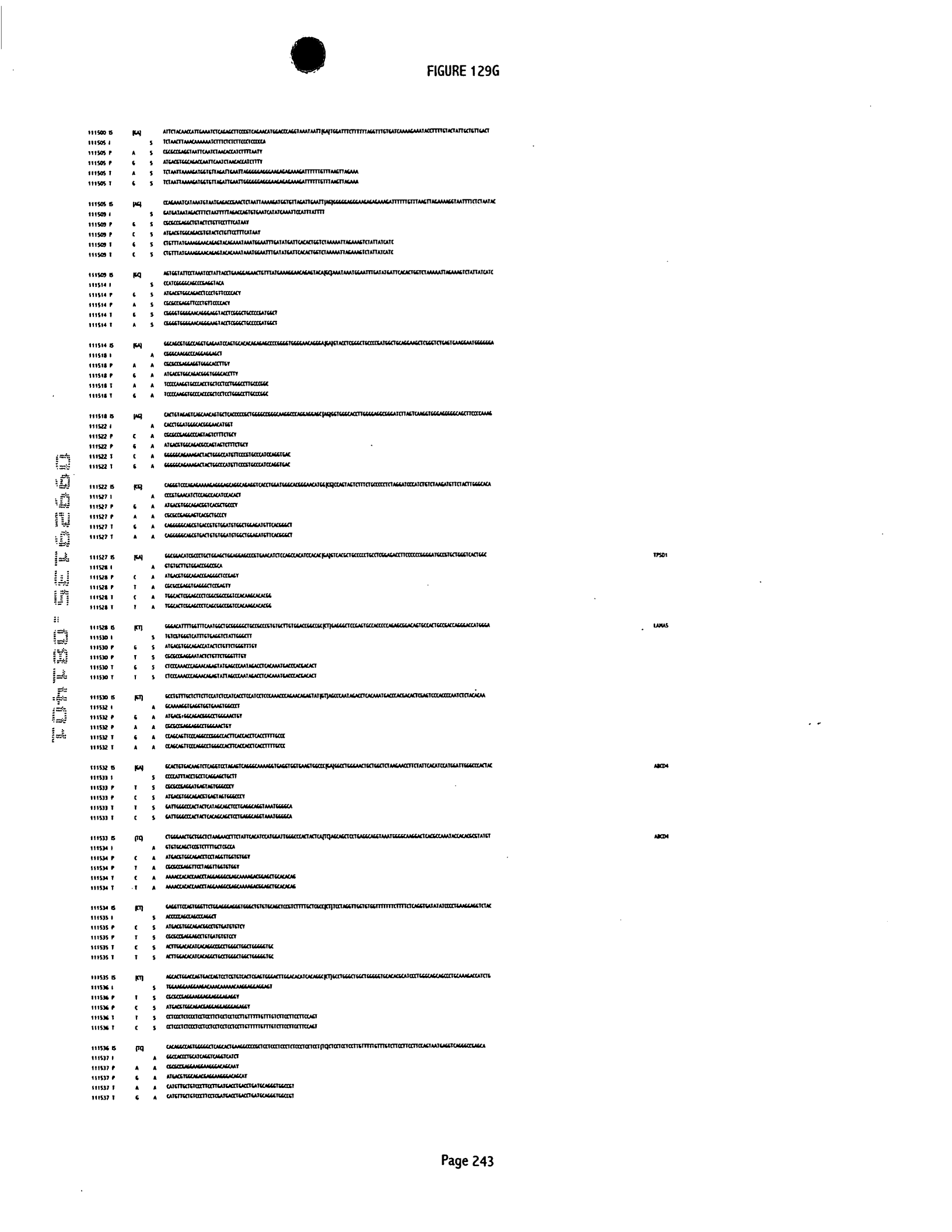


FIGURE 129G

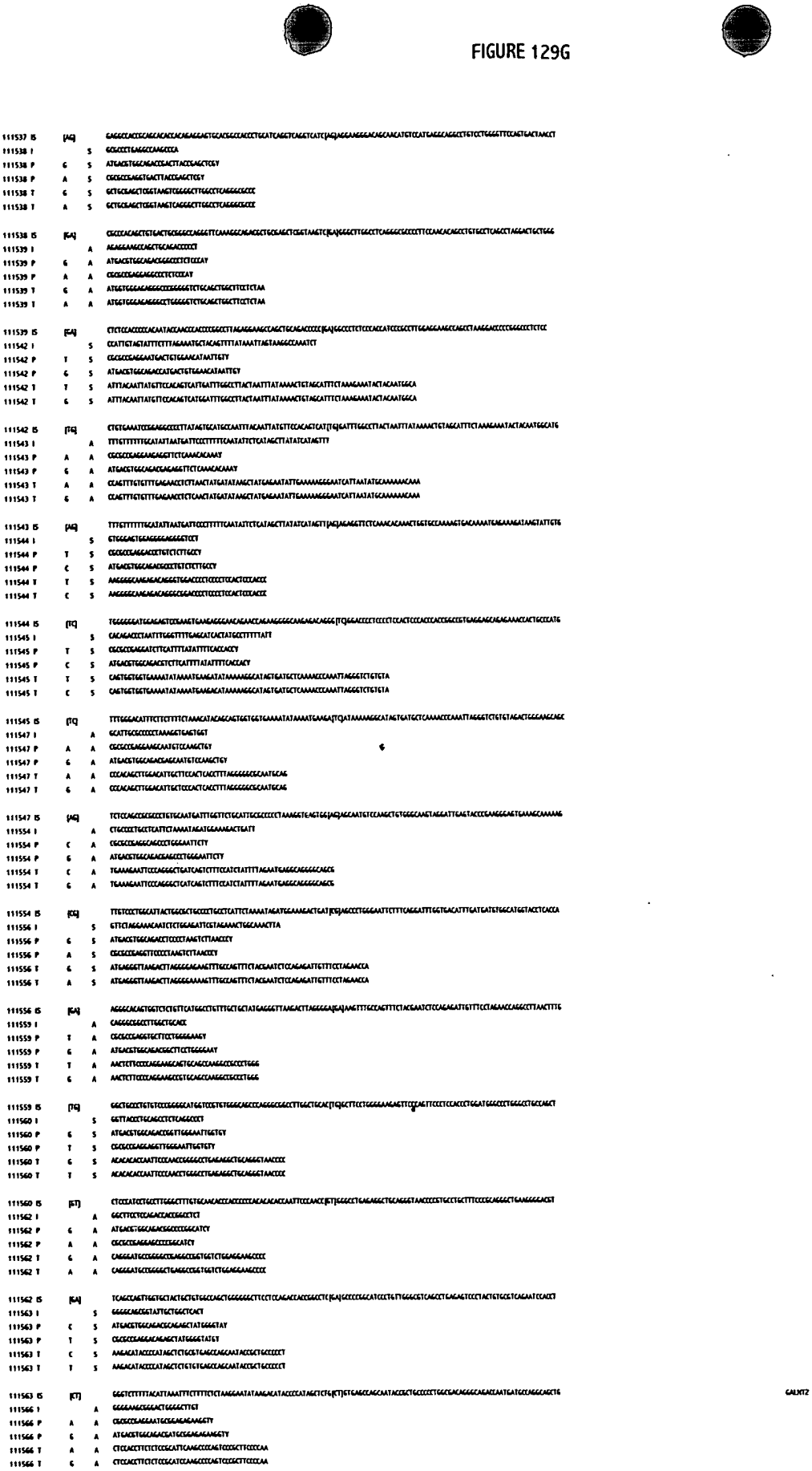


FIGURE 129G

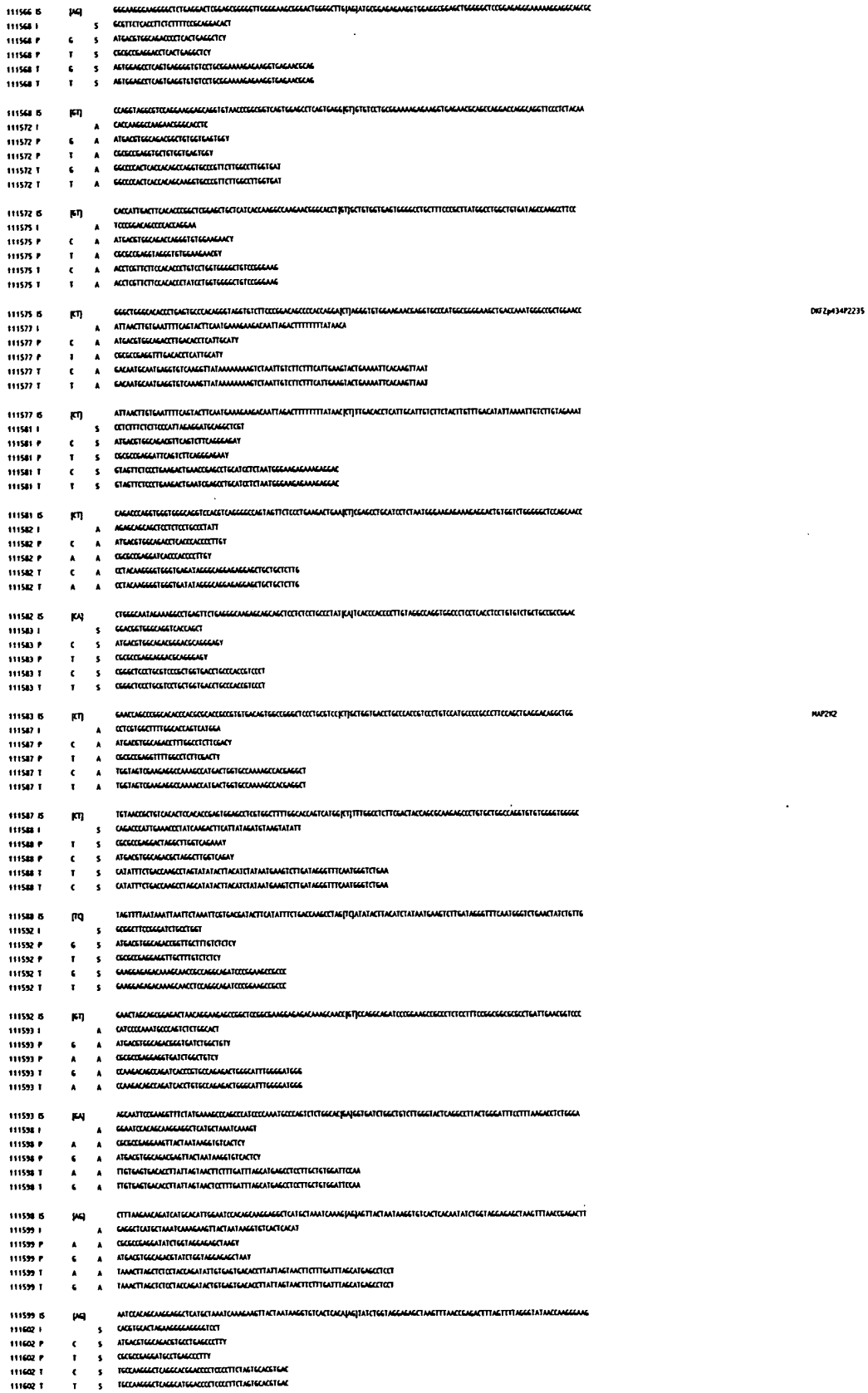
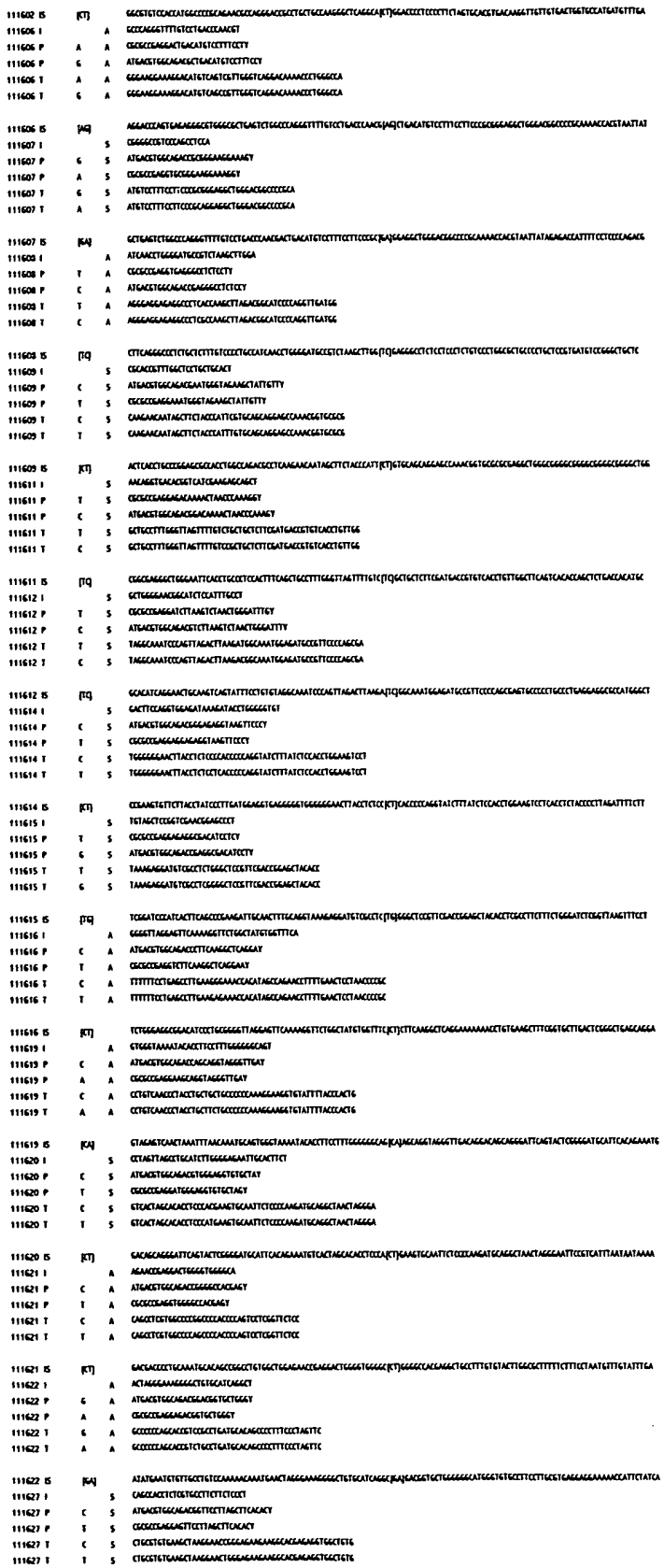
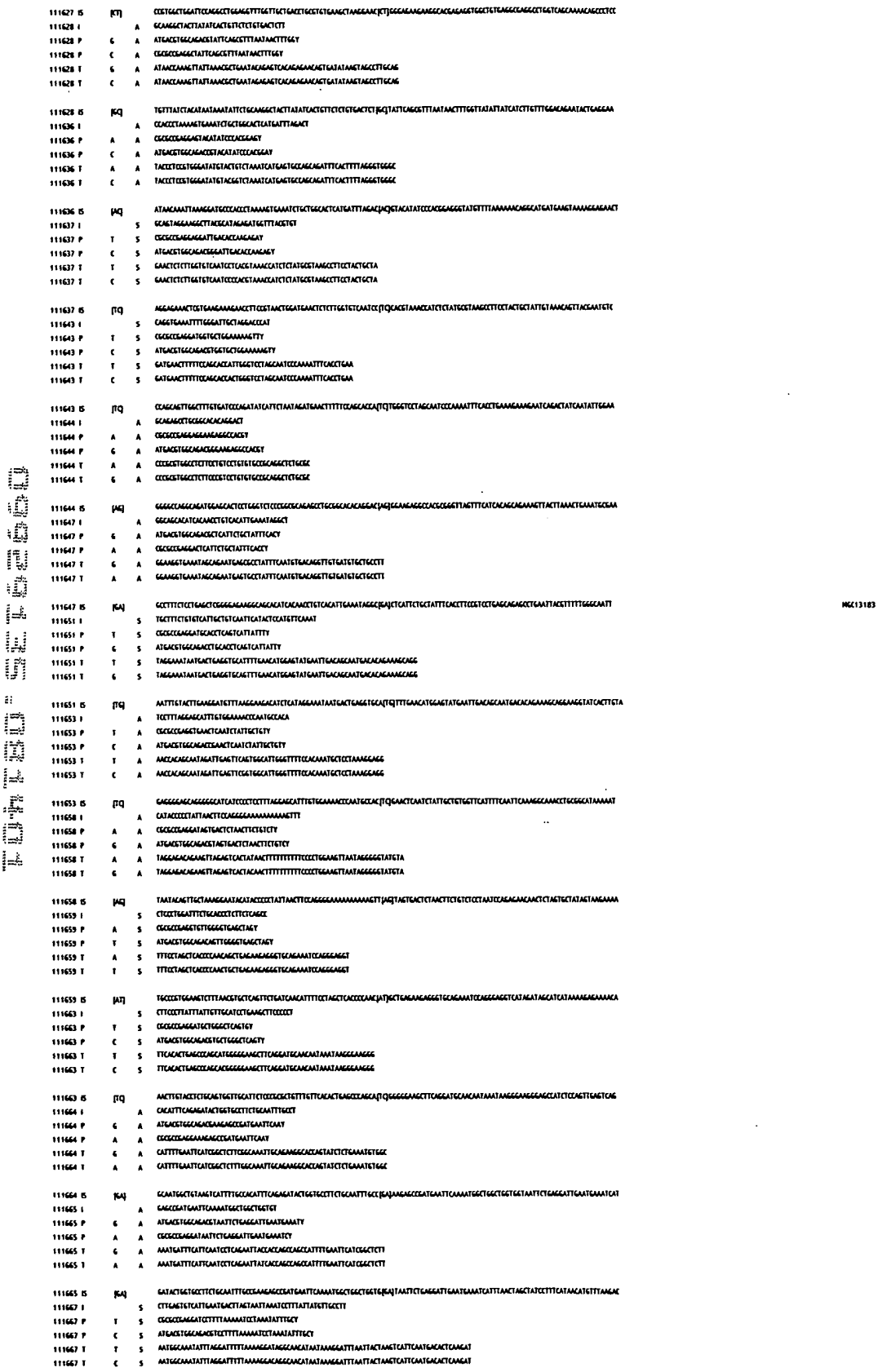


FIGURE 129G





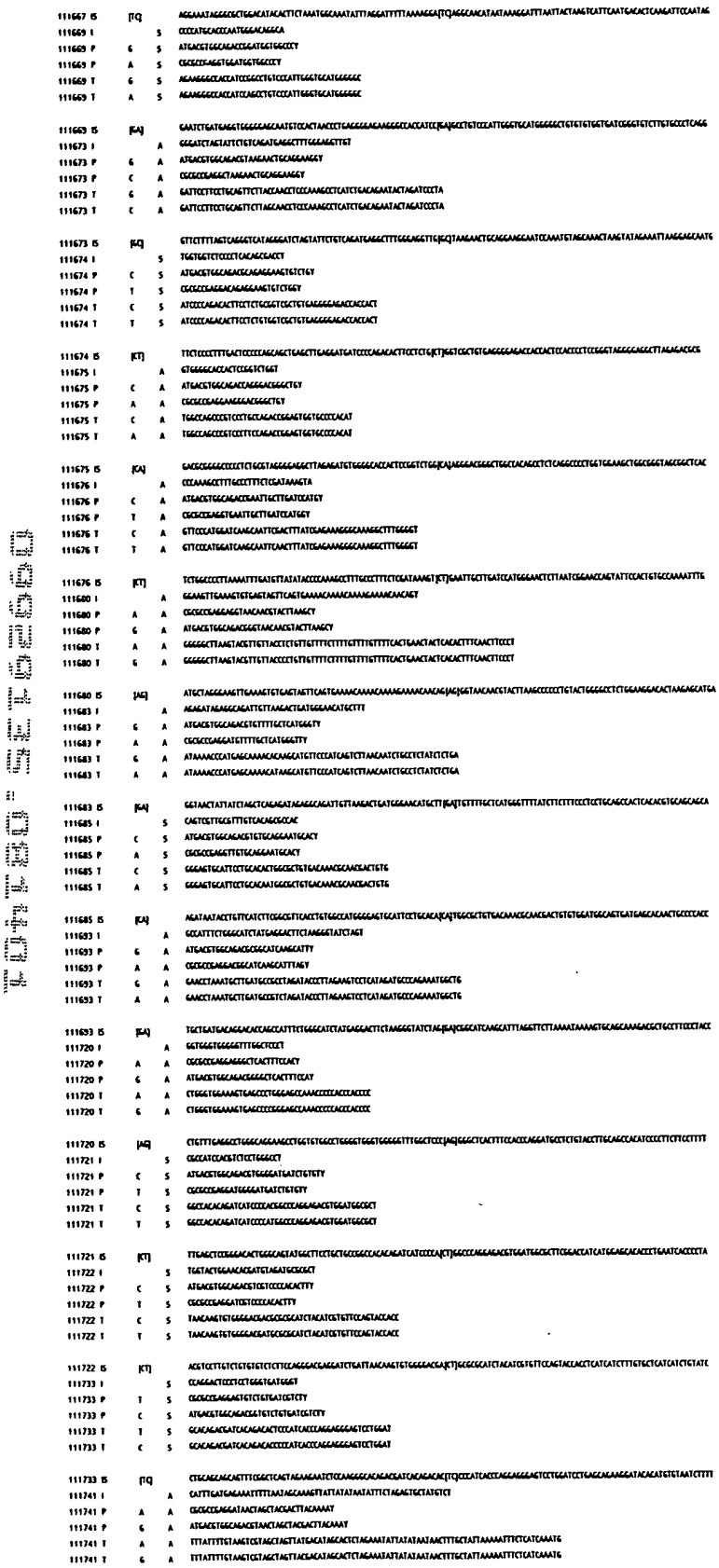


FIGURE 129G

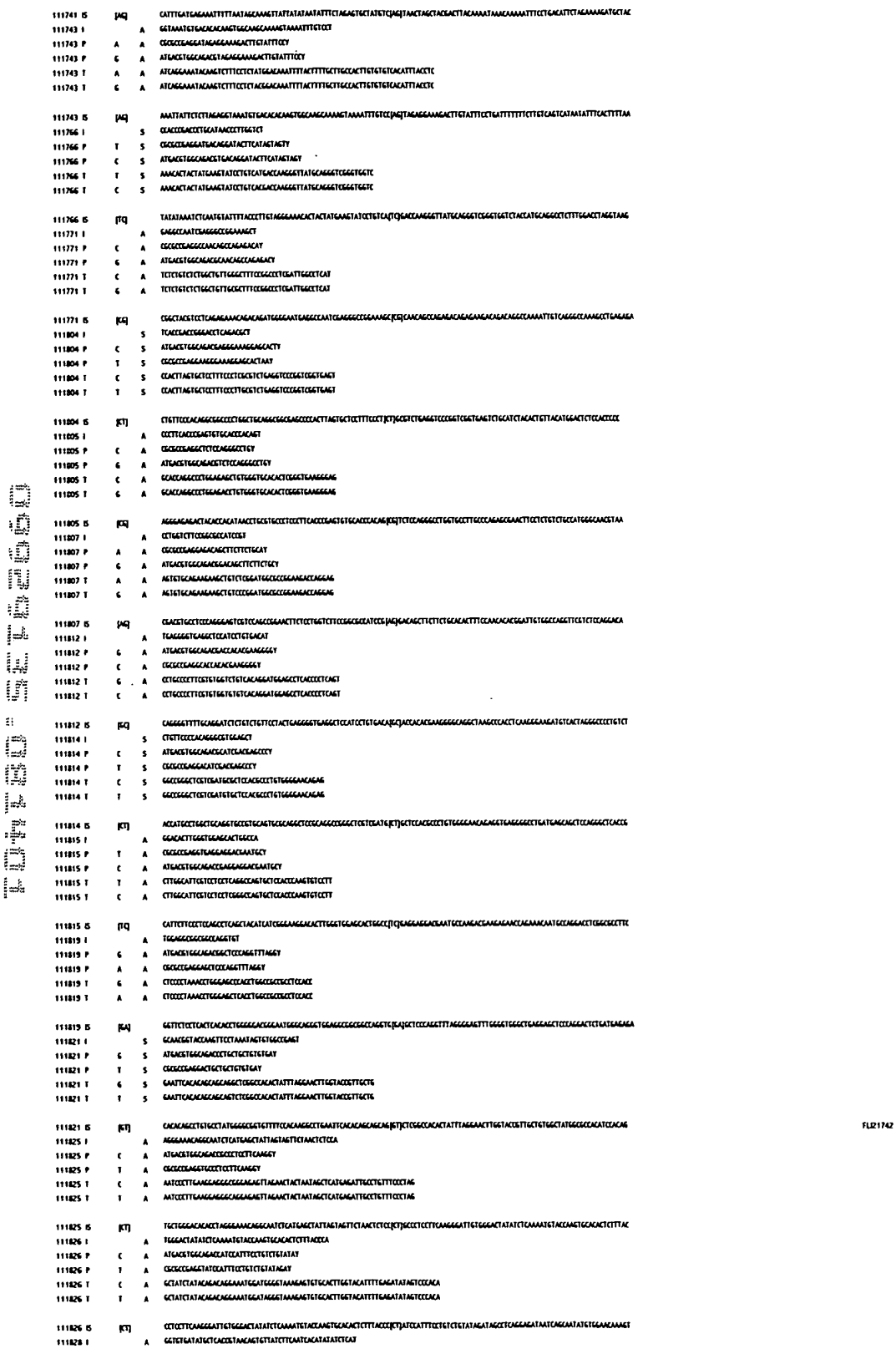


FIGURE 129G

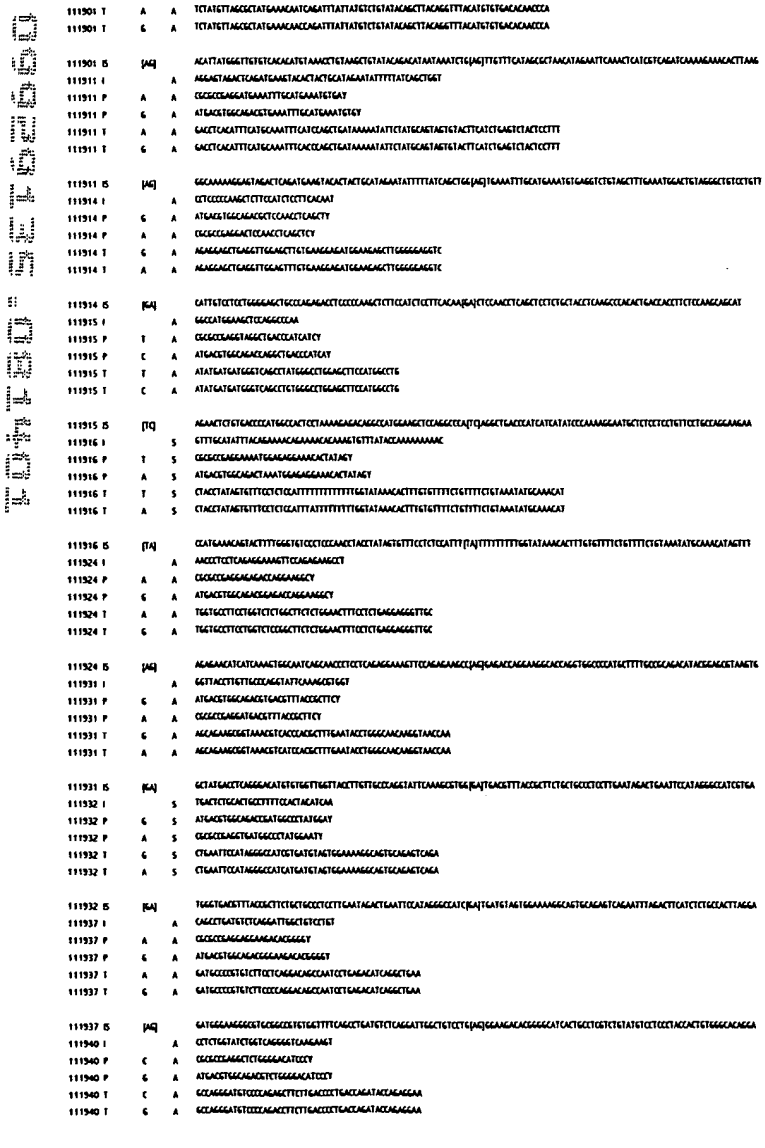


FIGURE 129G

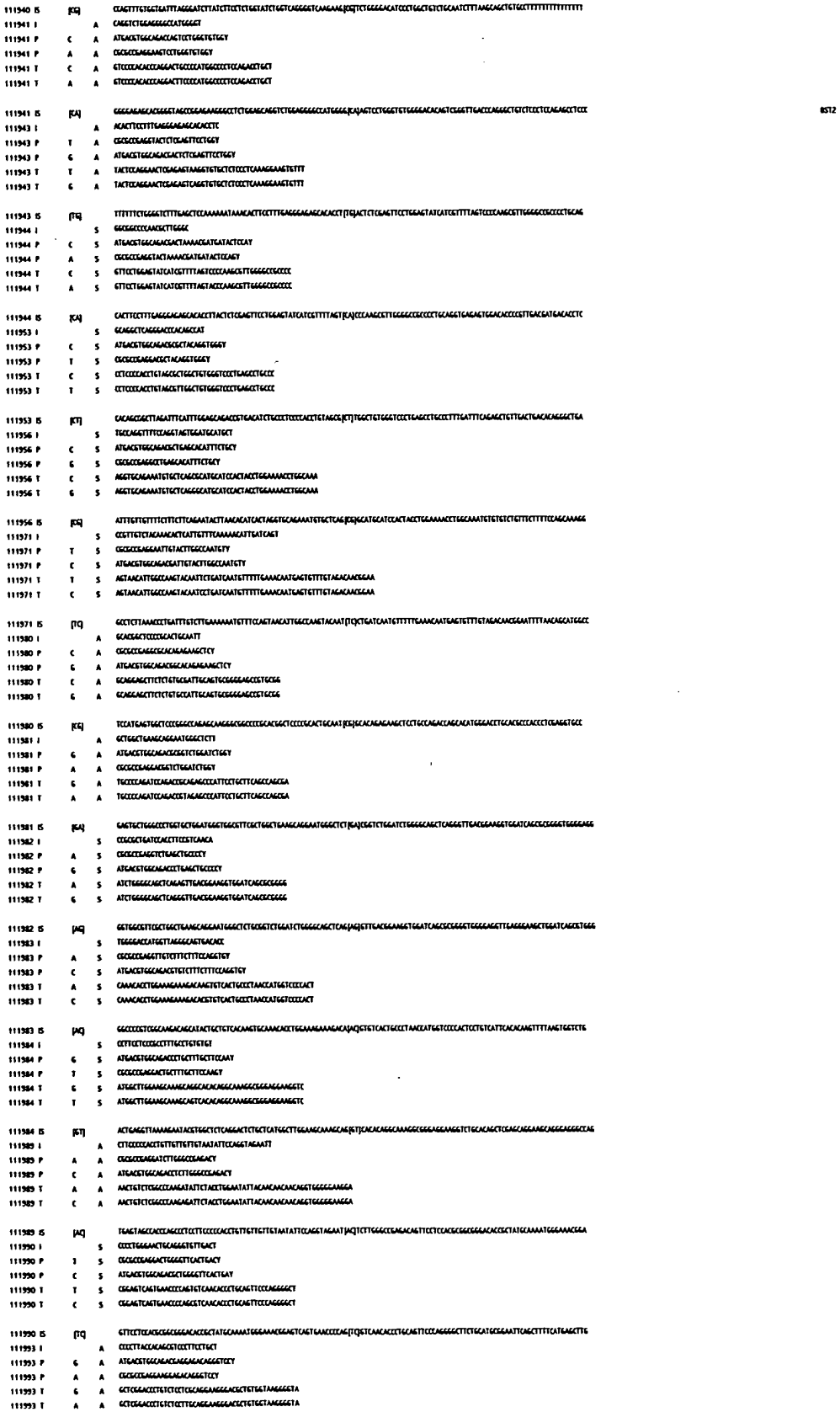


FIGURE 129G

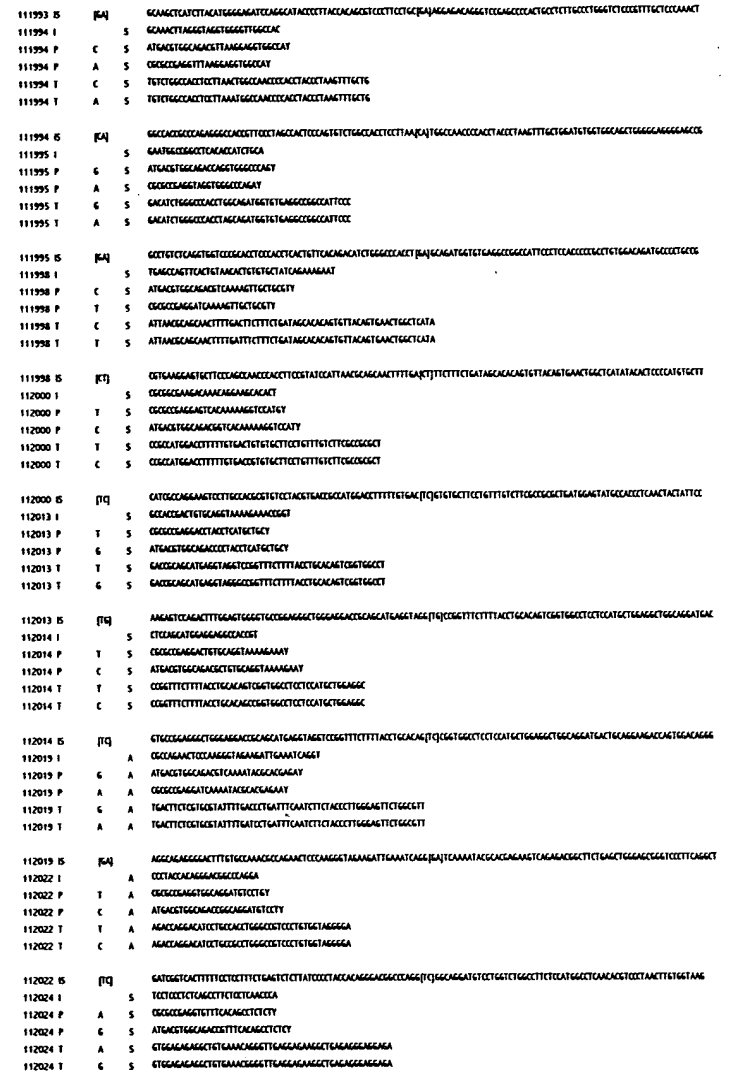
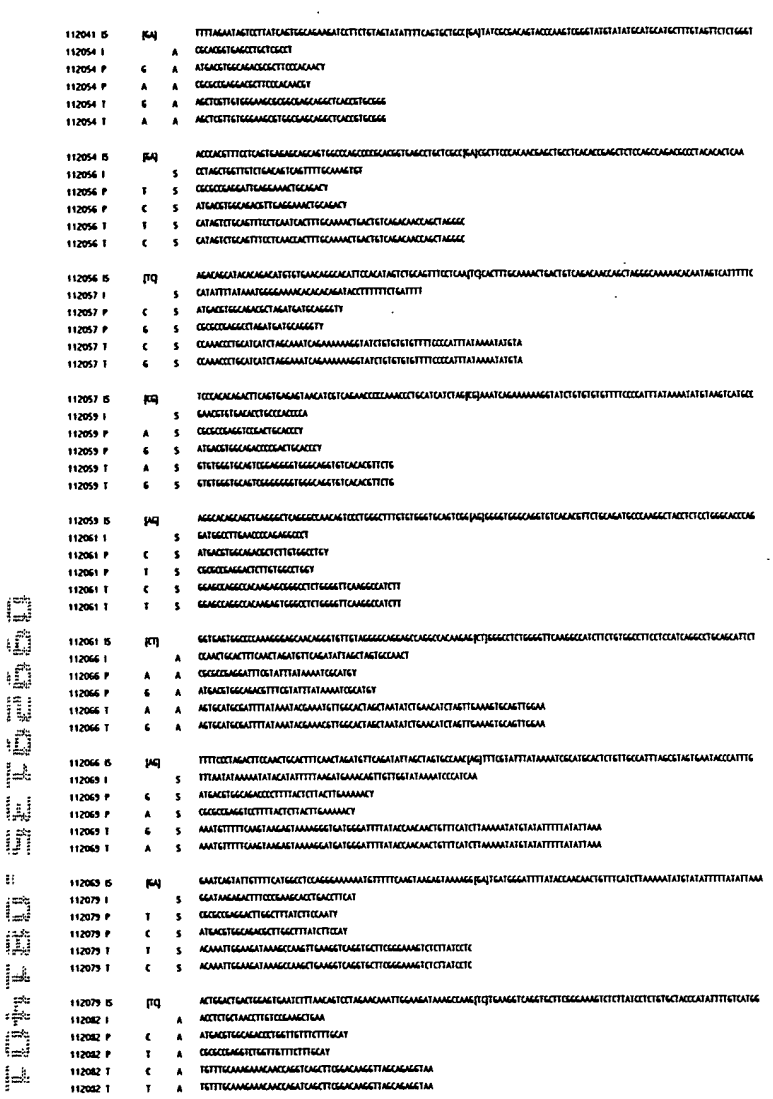
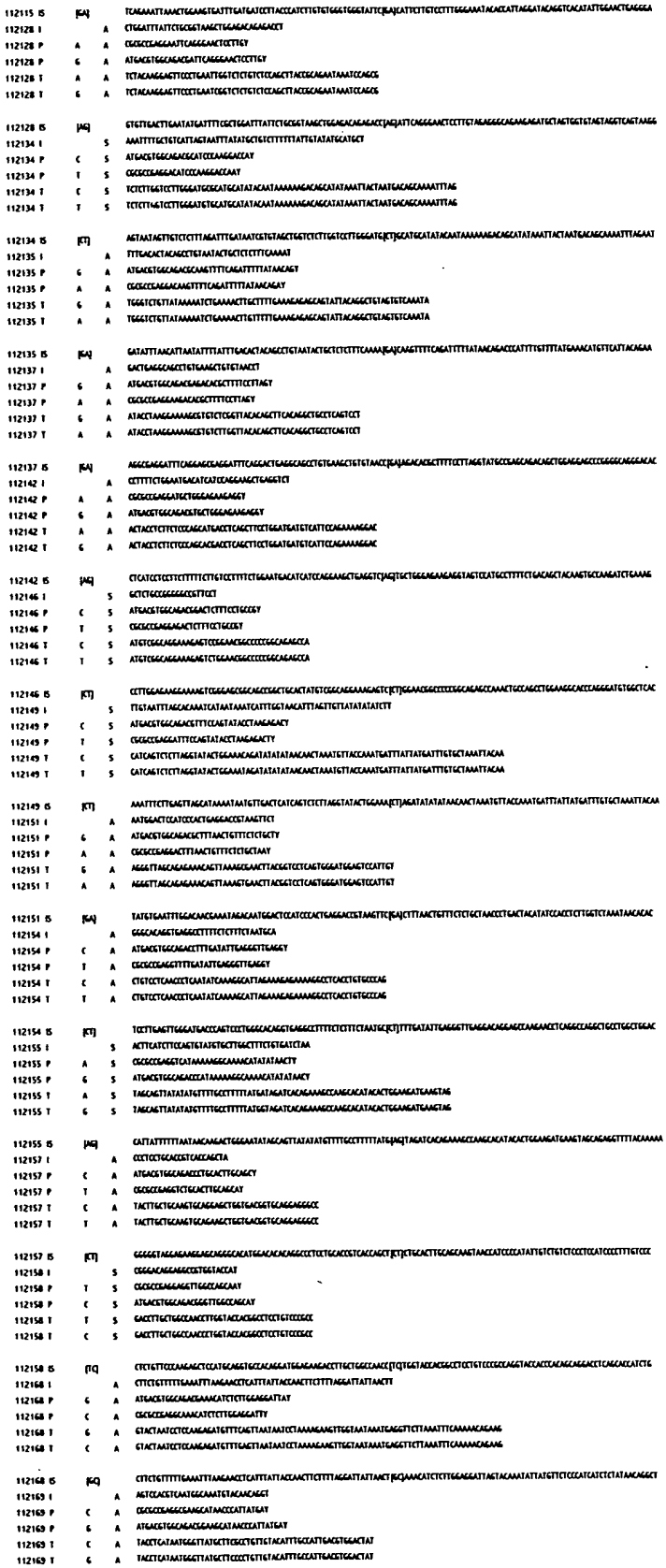
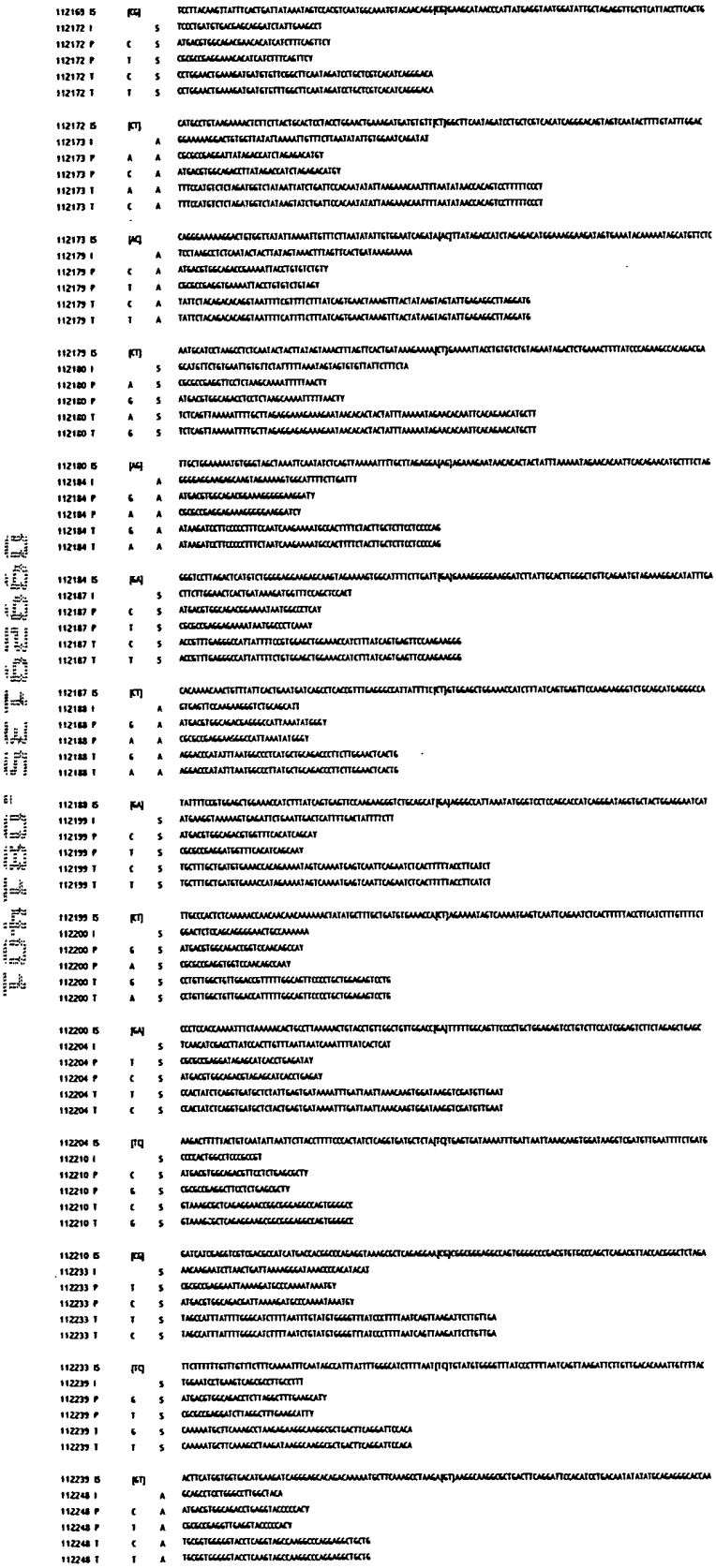


FIGURE 129G







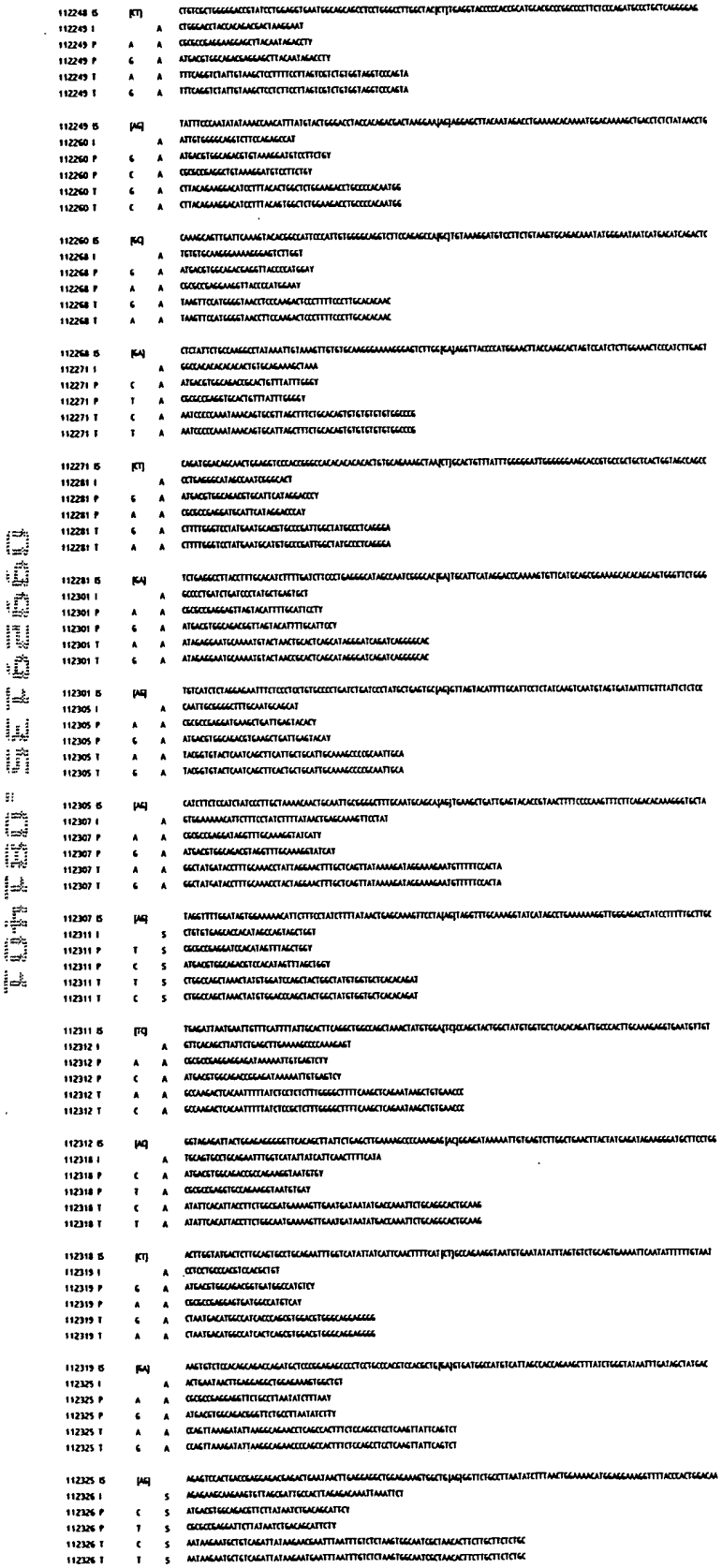


FIGURE 129G

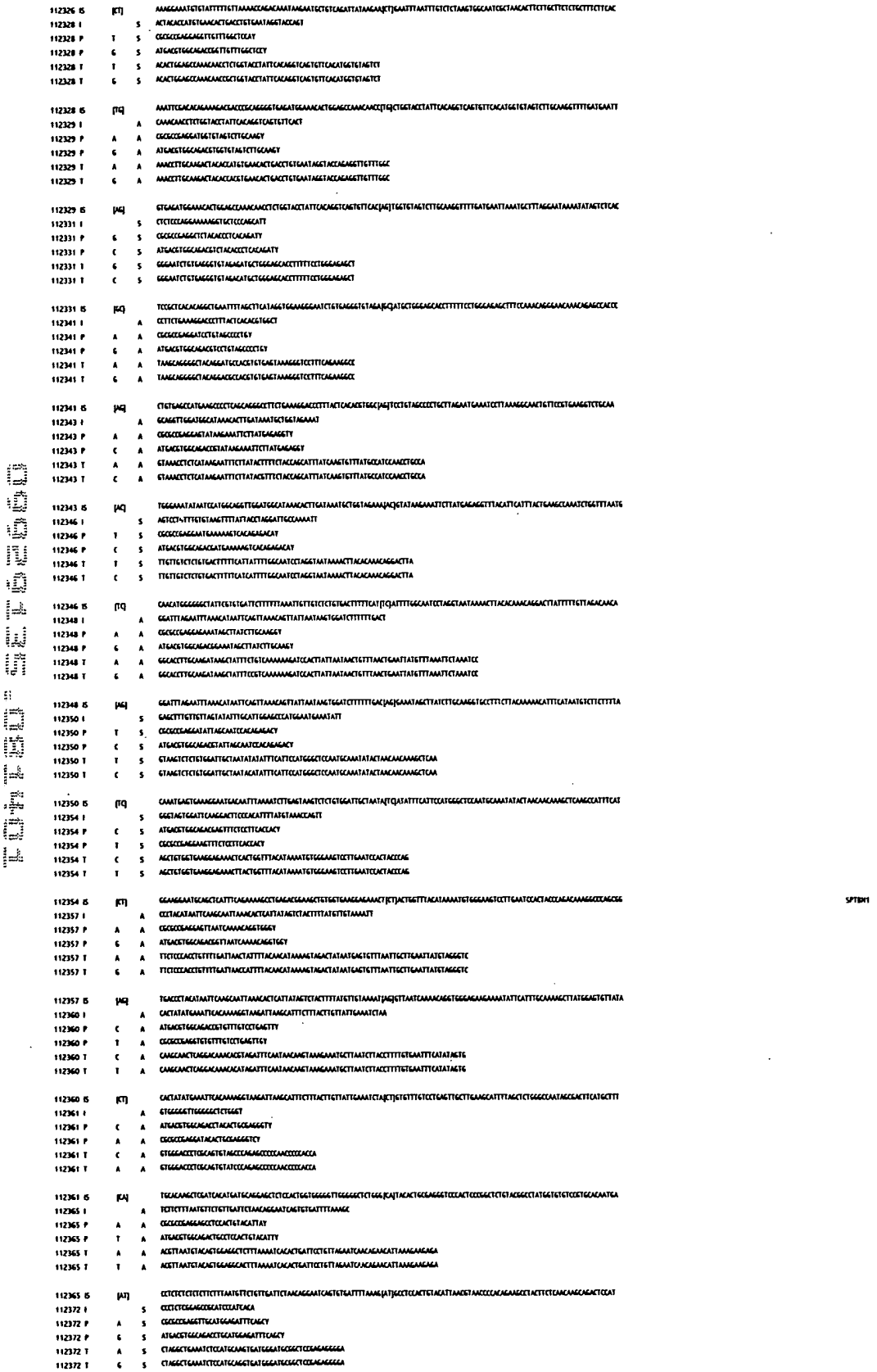


FIGURE 129G

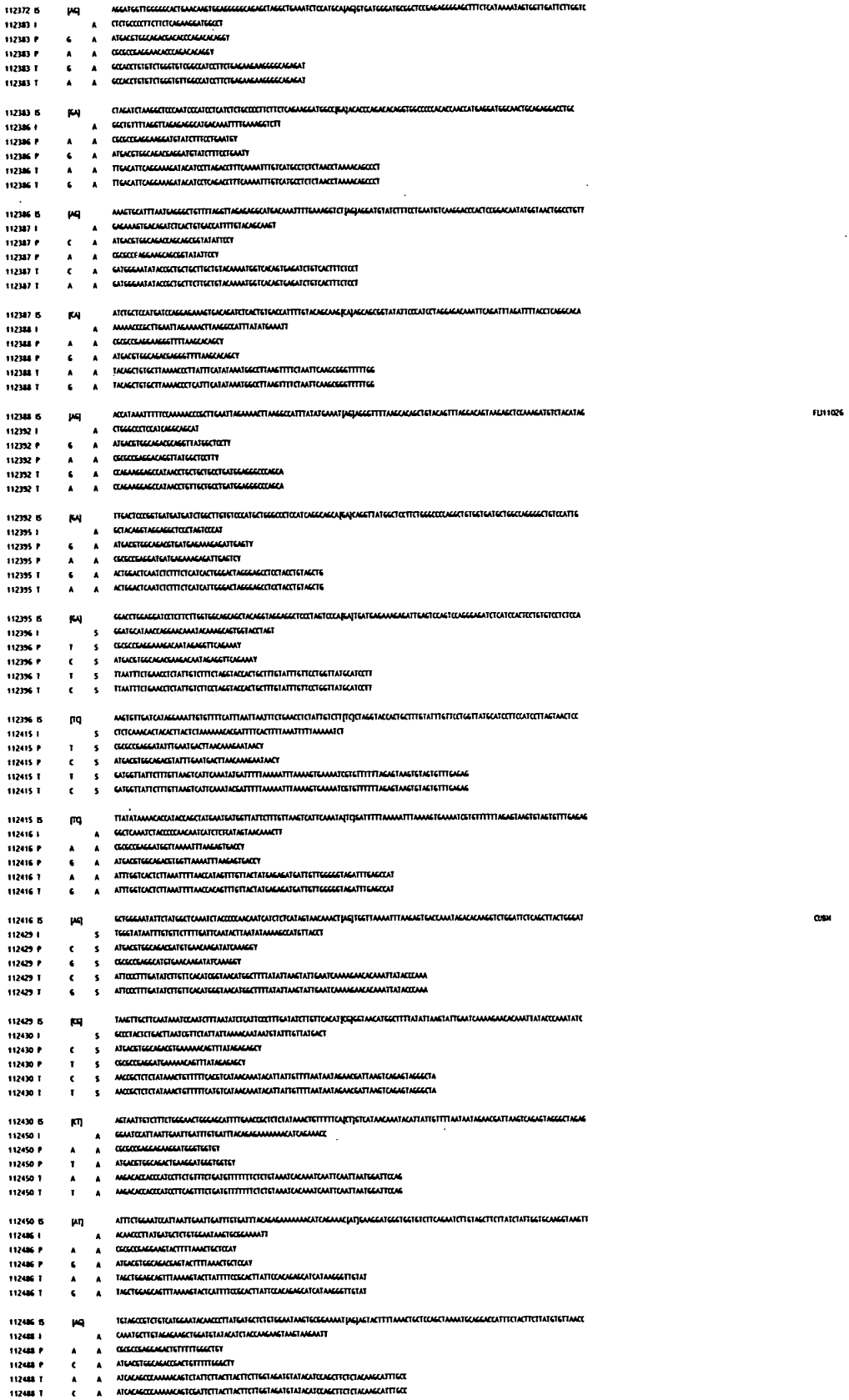


FIGURE 129G

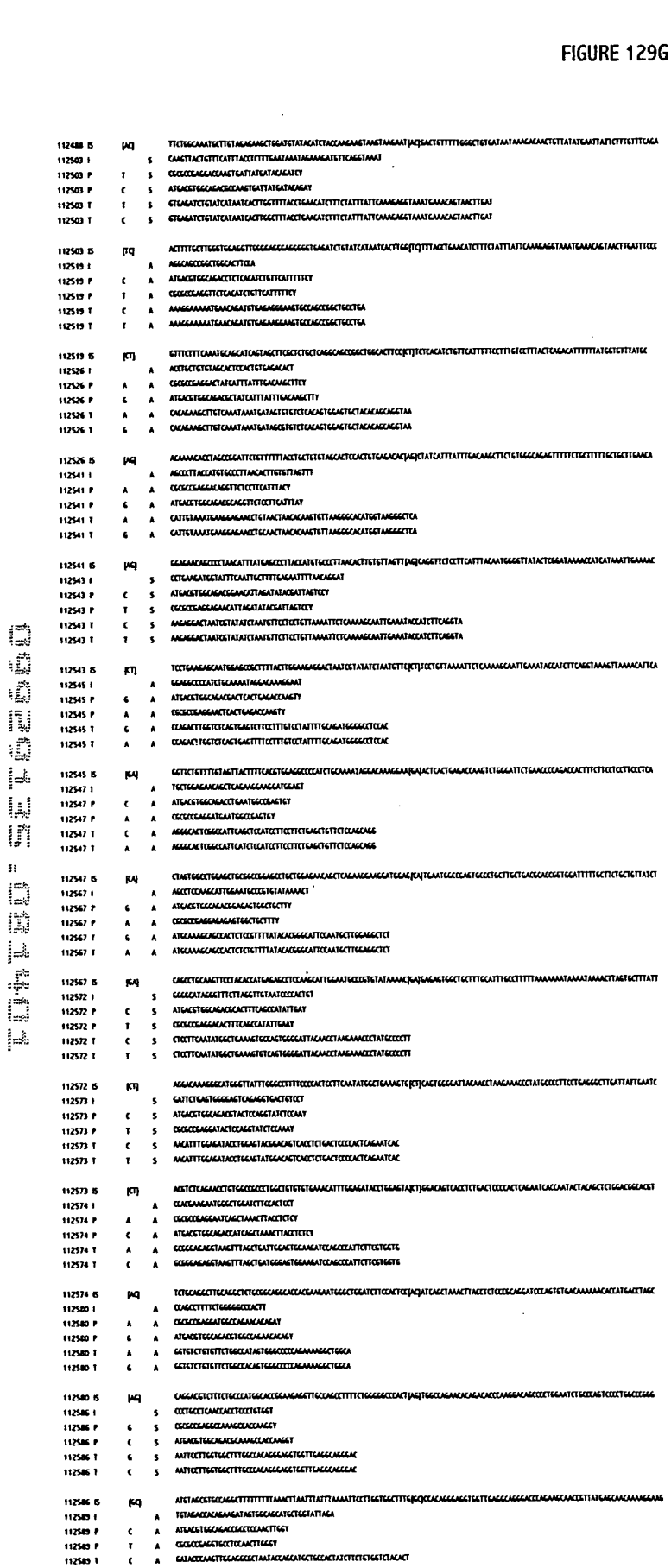


FIGURE 129G

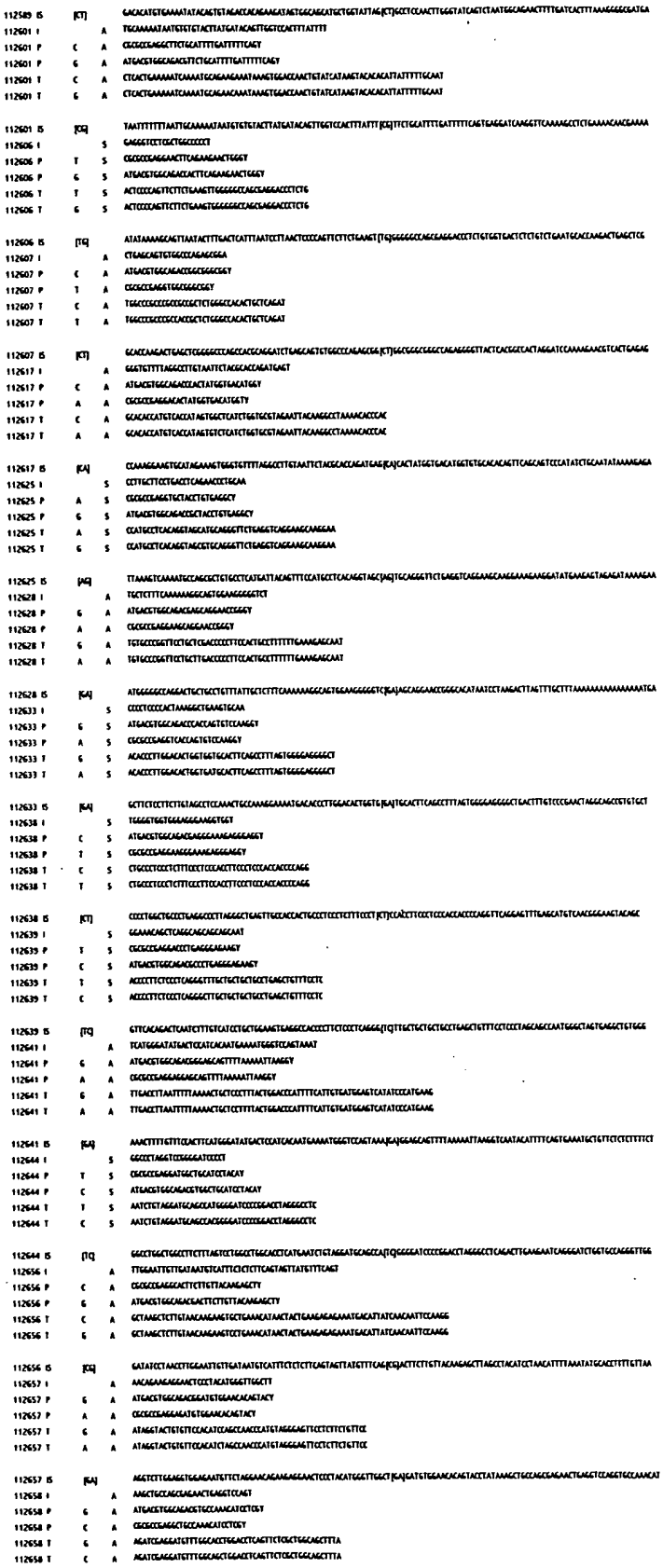
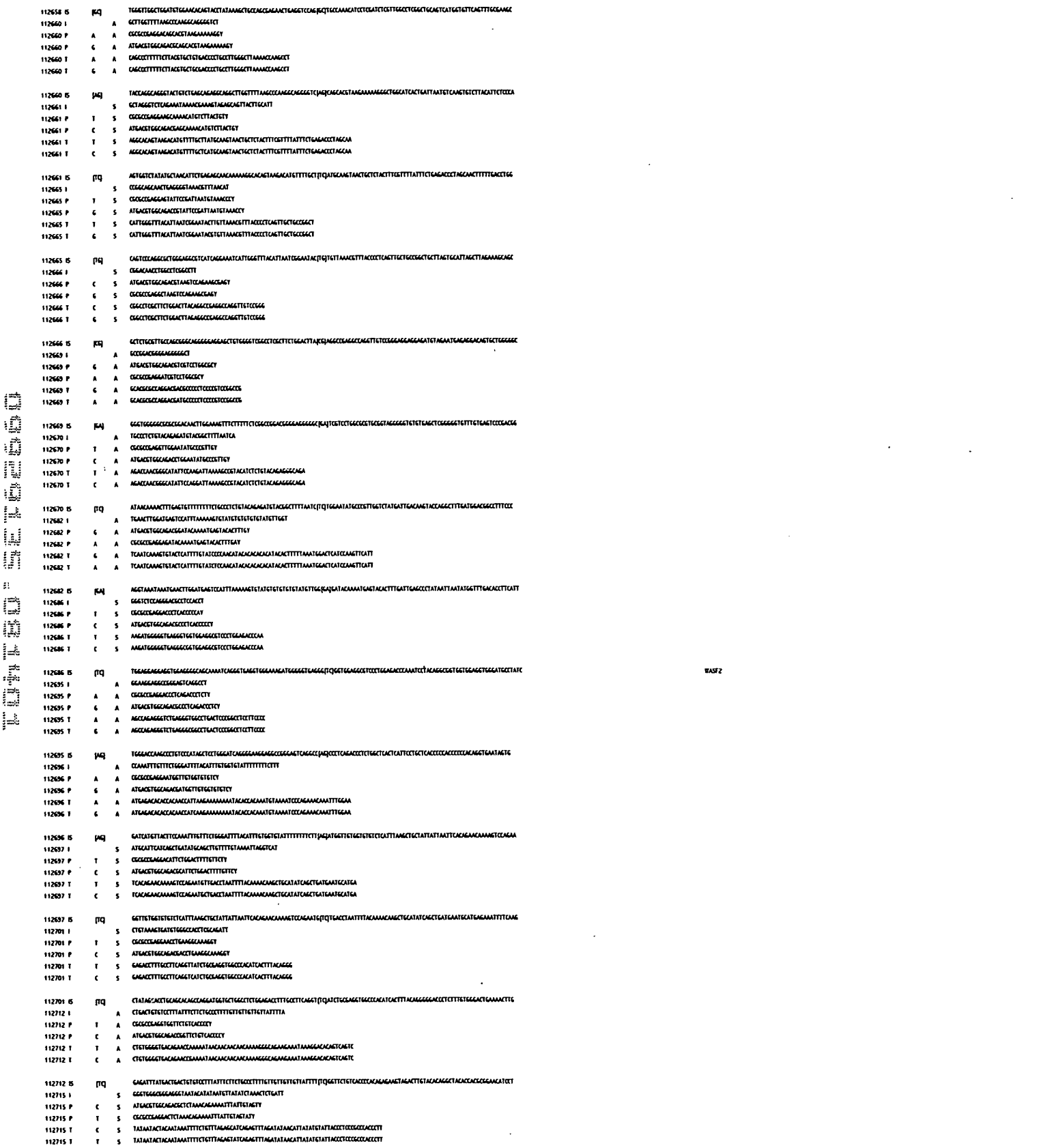


FIGURE 129G



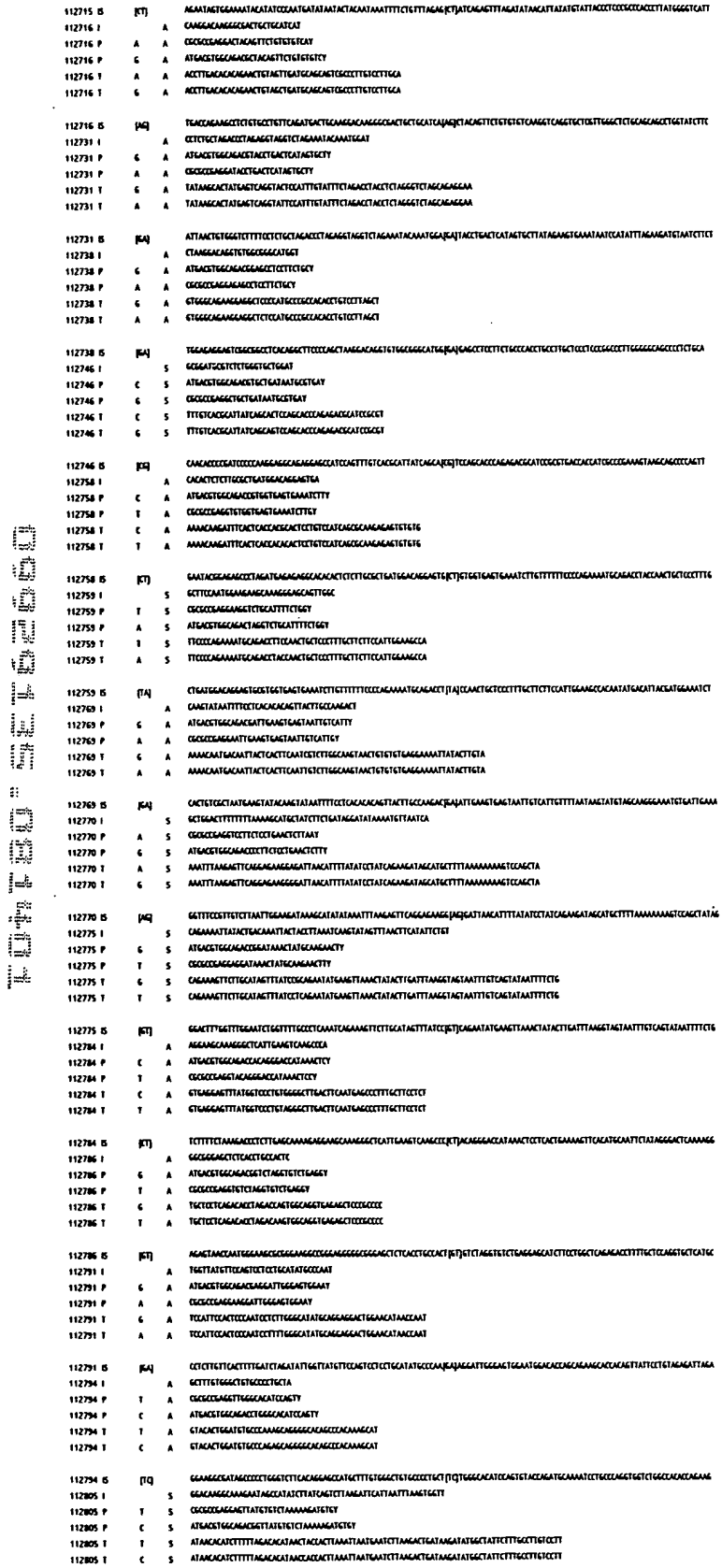


FIGURE 129G

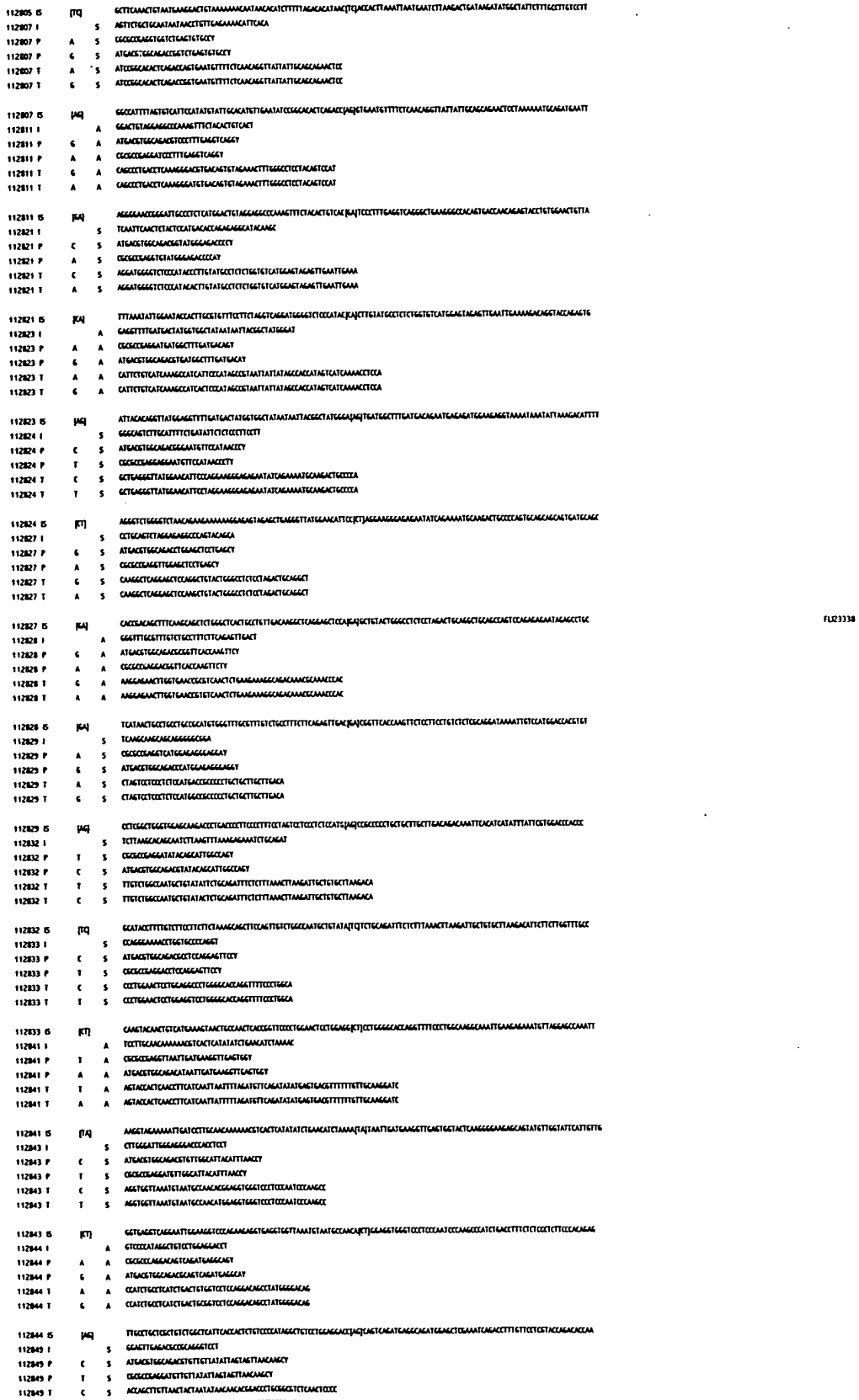


FIGURE 129G

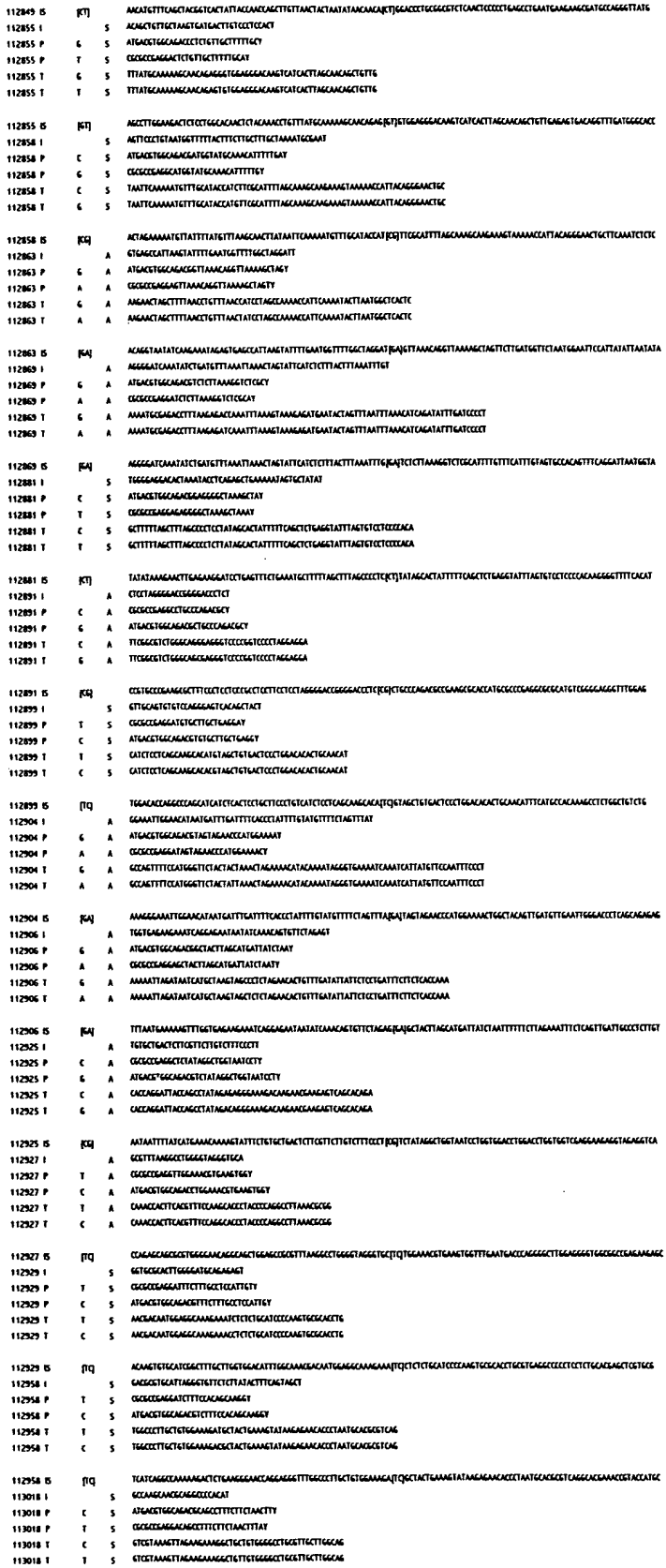


FIGURE 129G

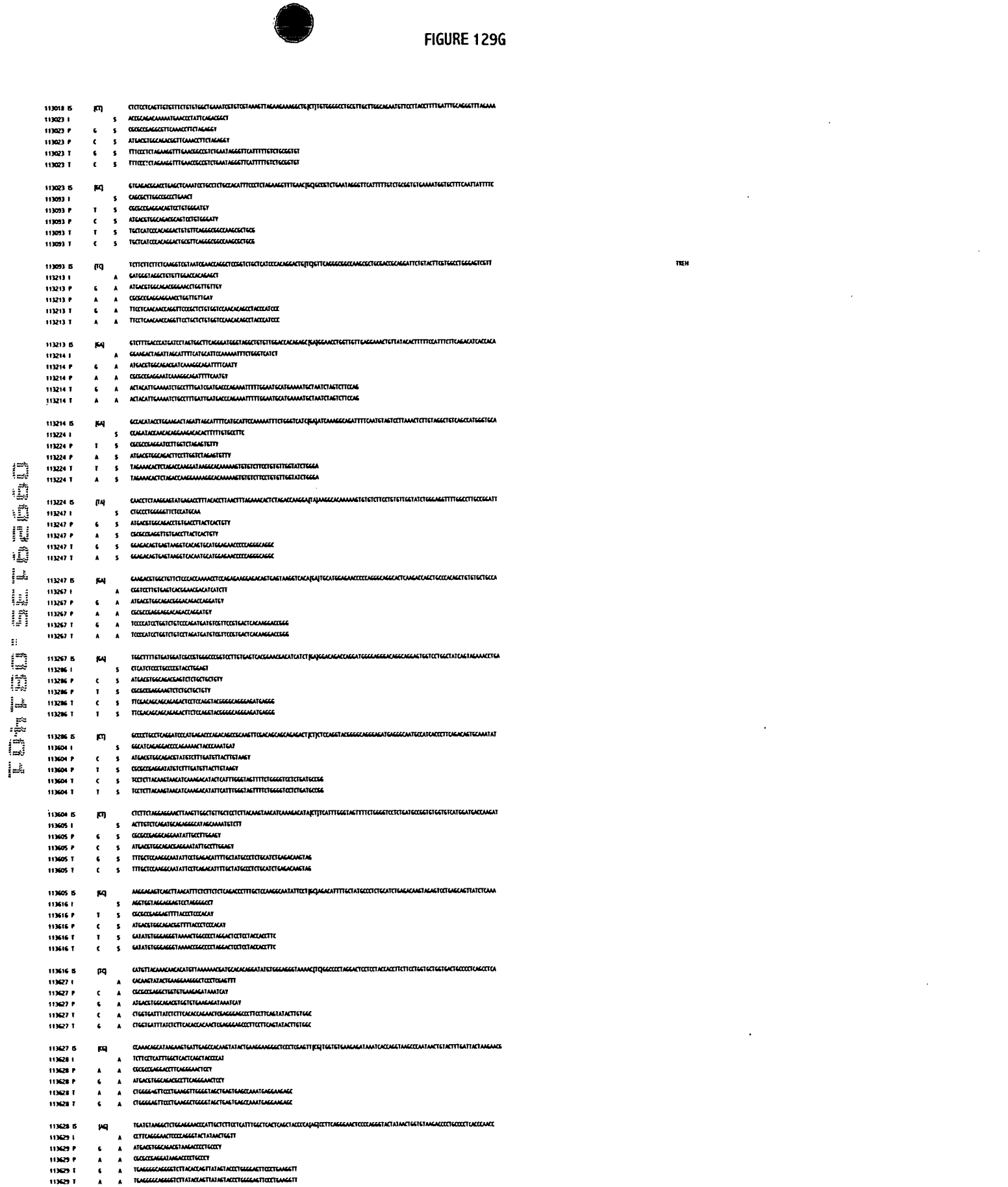
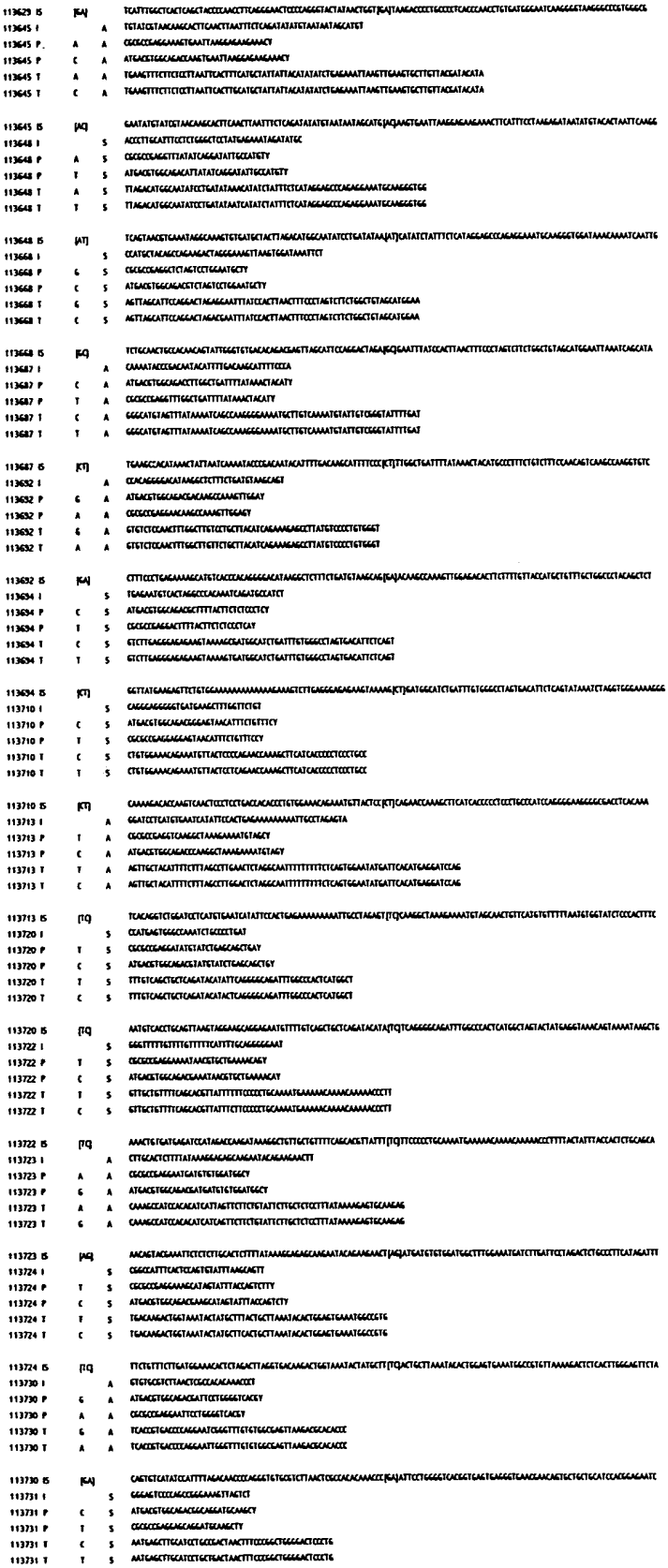


FIGURE 129G



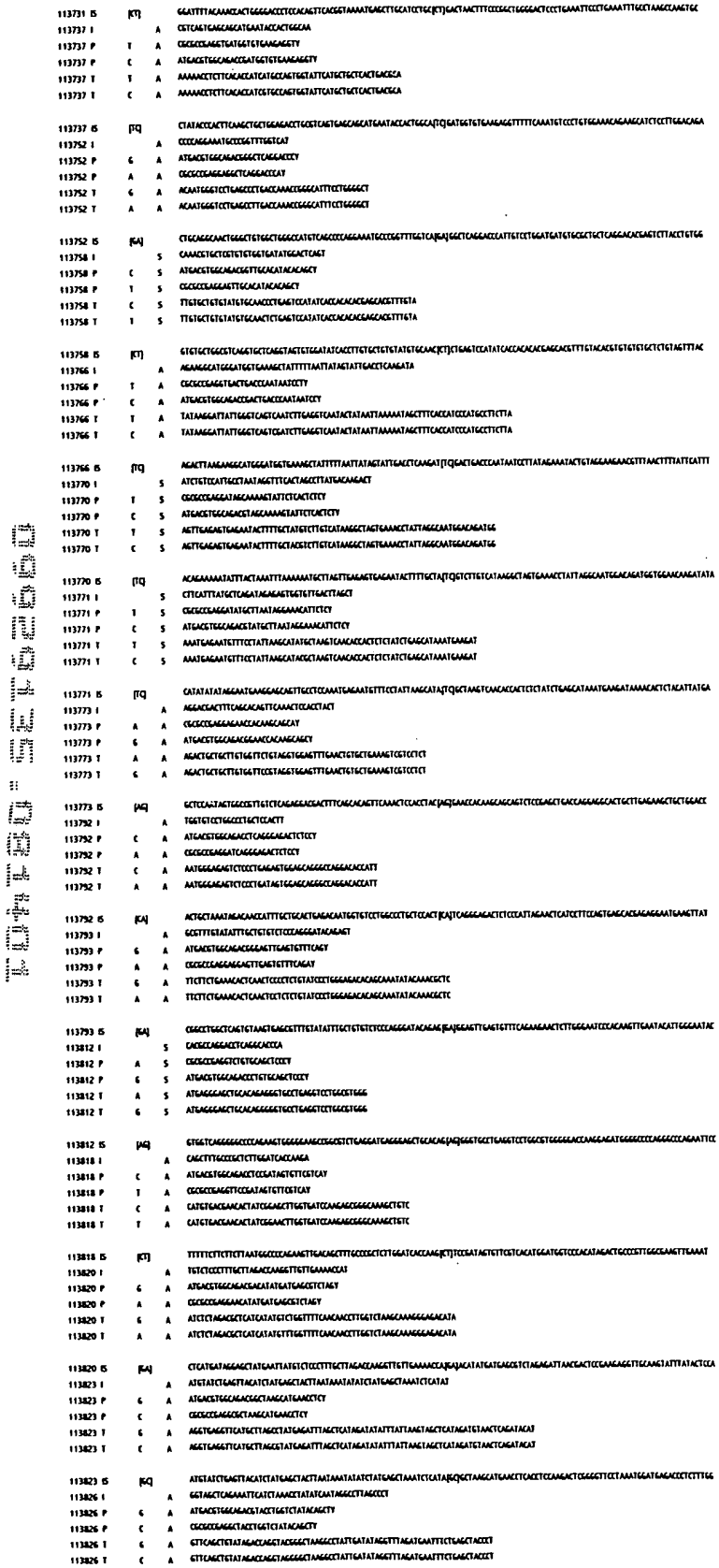
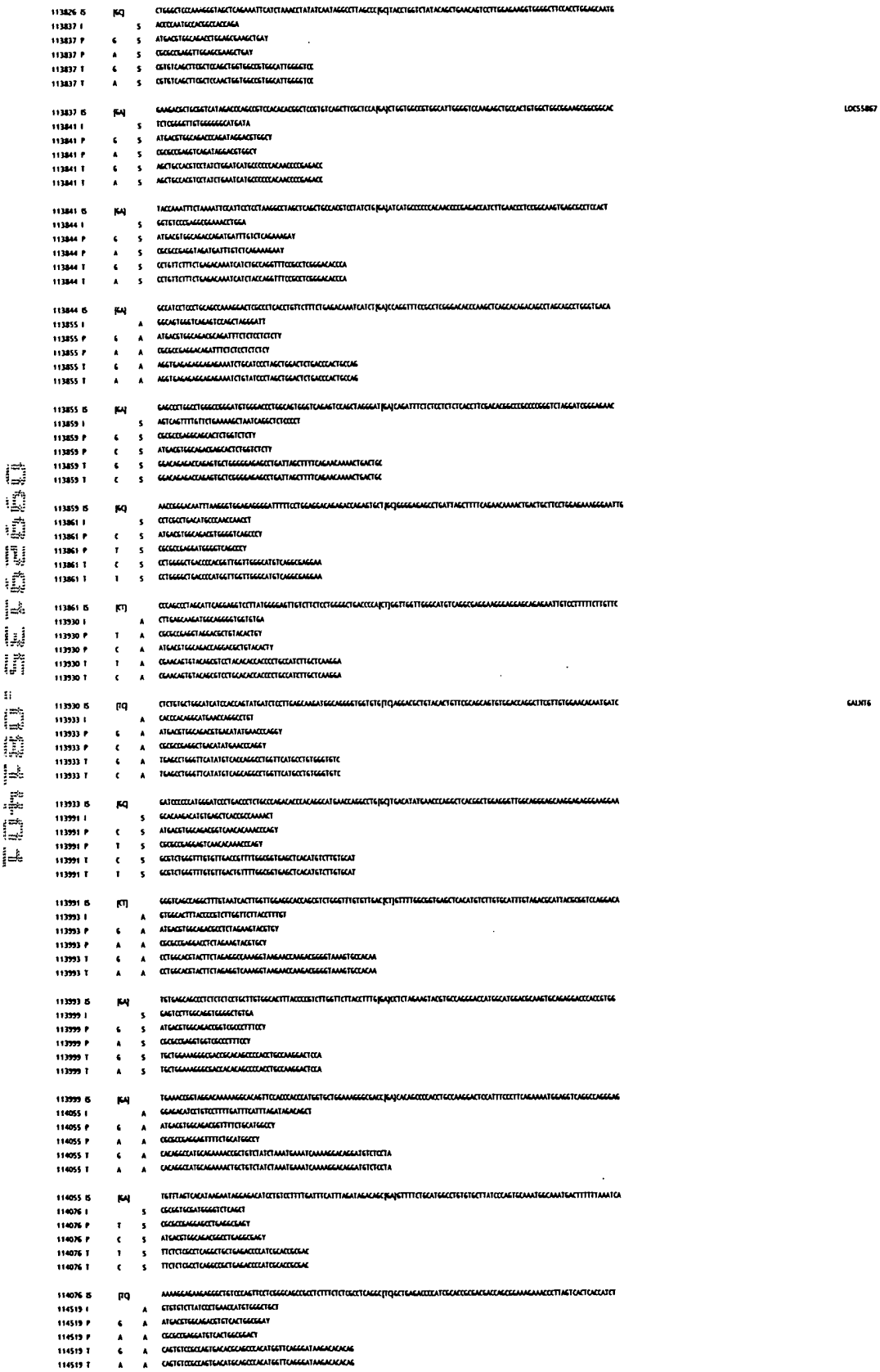


FIGURE 129G



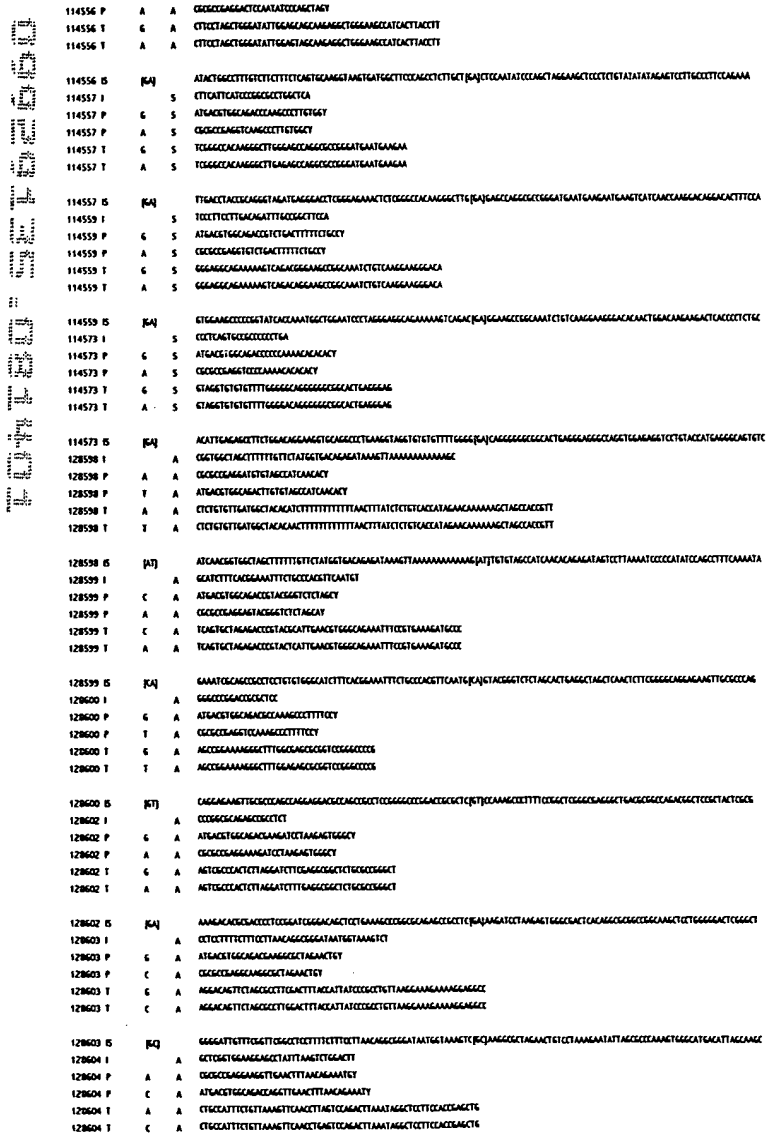
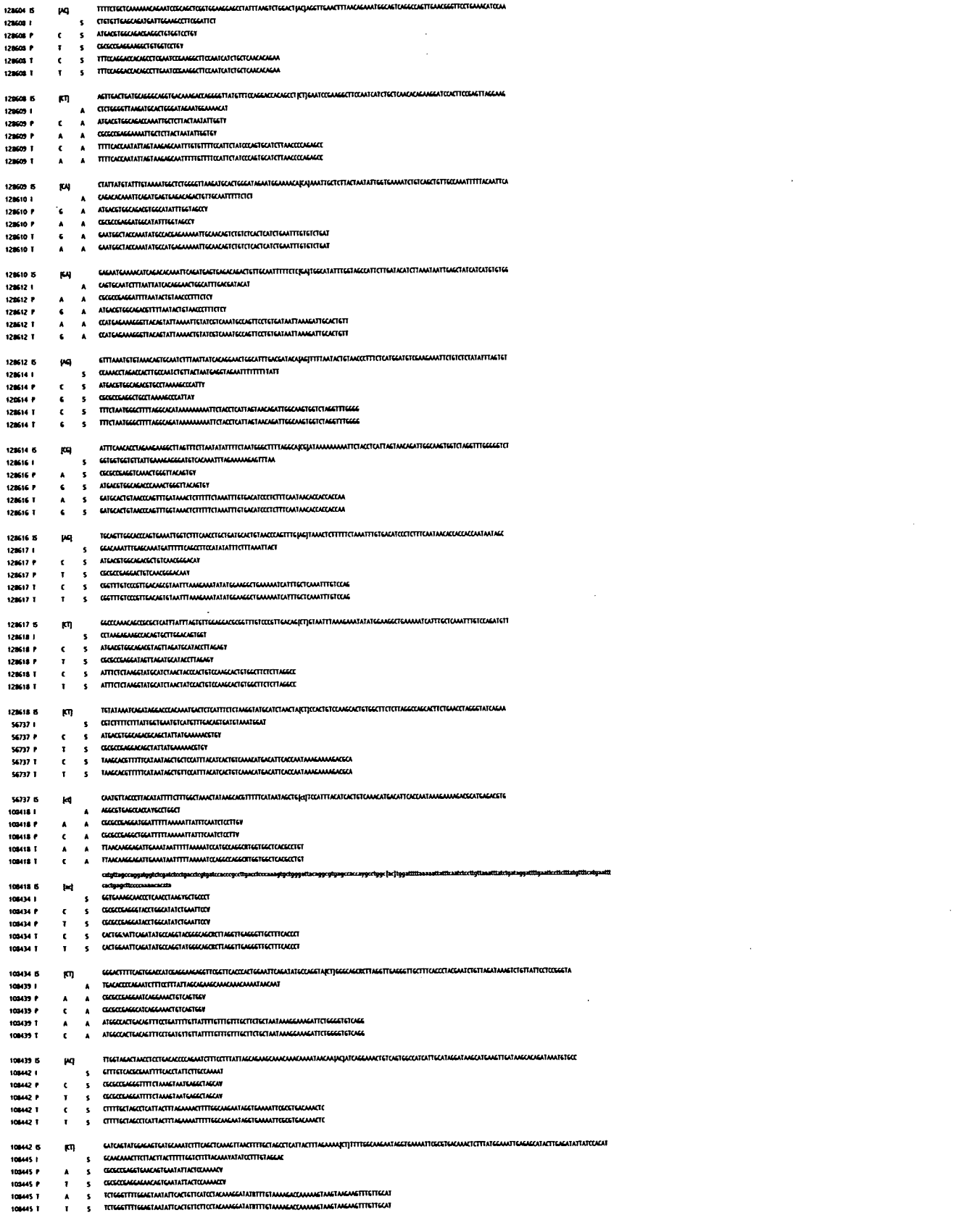


FIGURE 129G



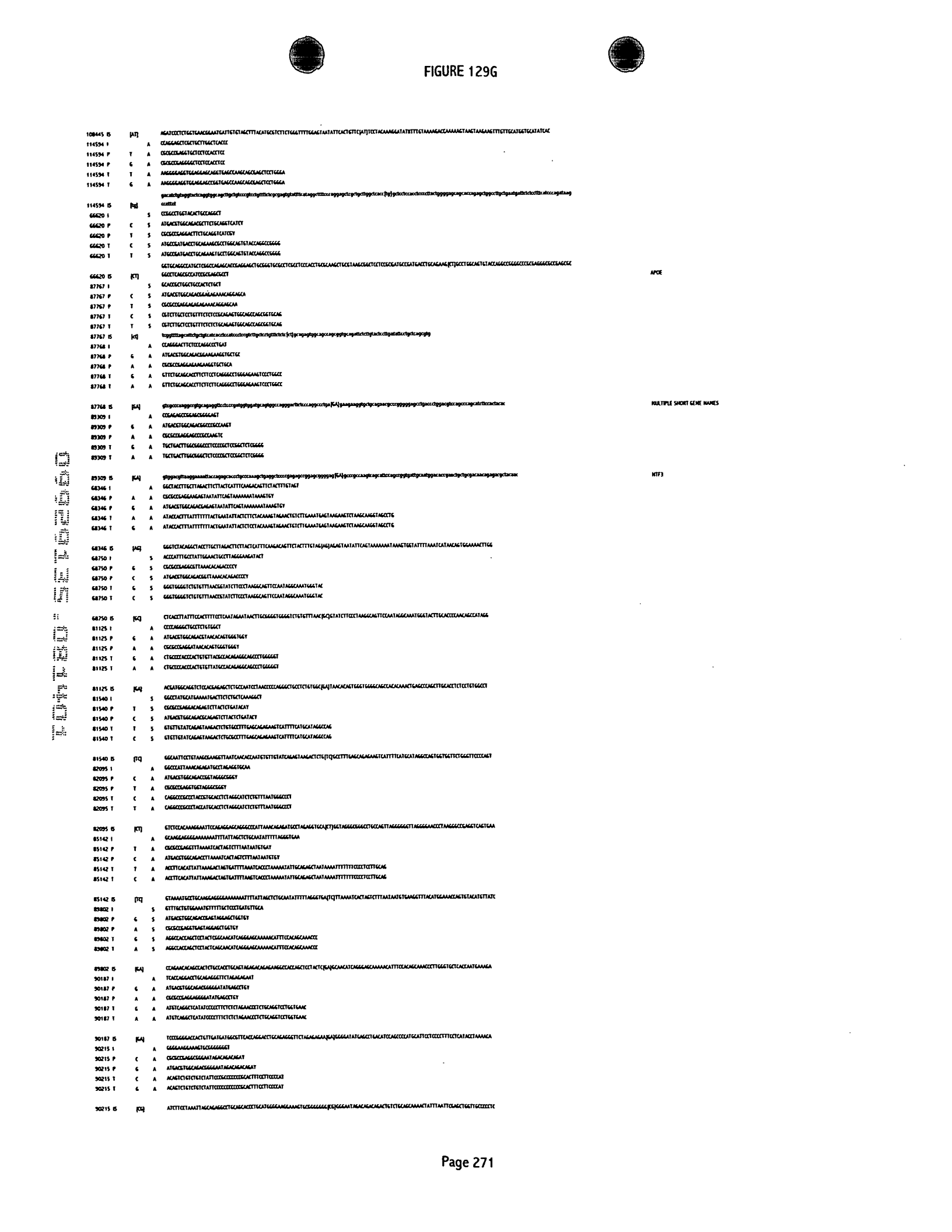
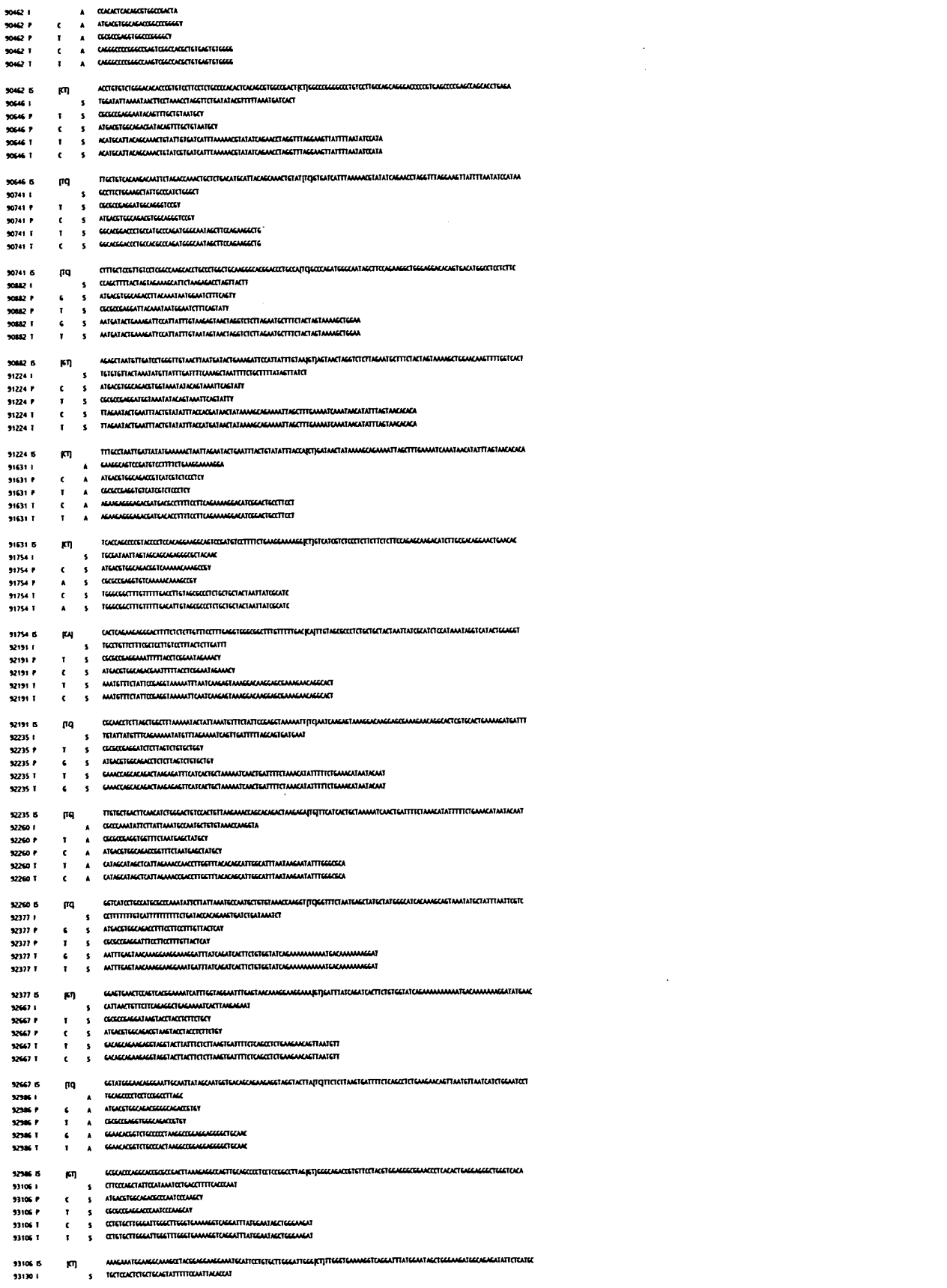

APOE
MULTIPLE SHORT GENE NAMES
NTF3

FIGURE 129G



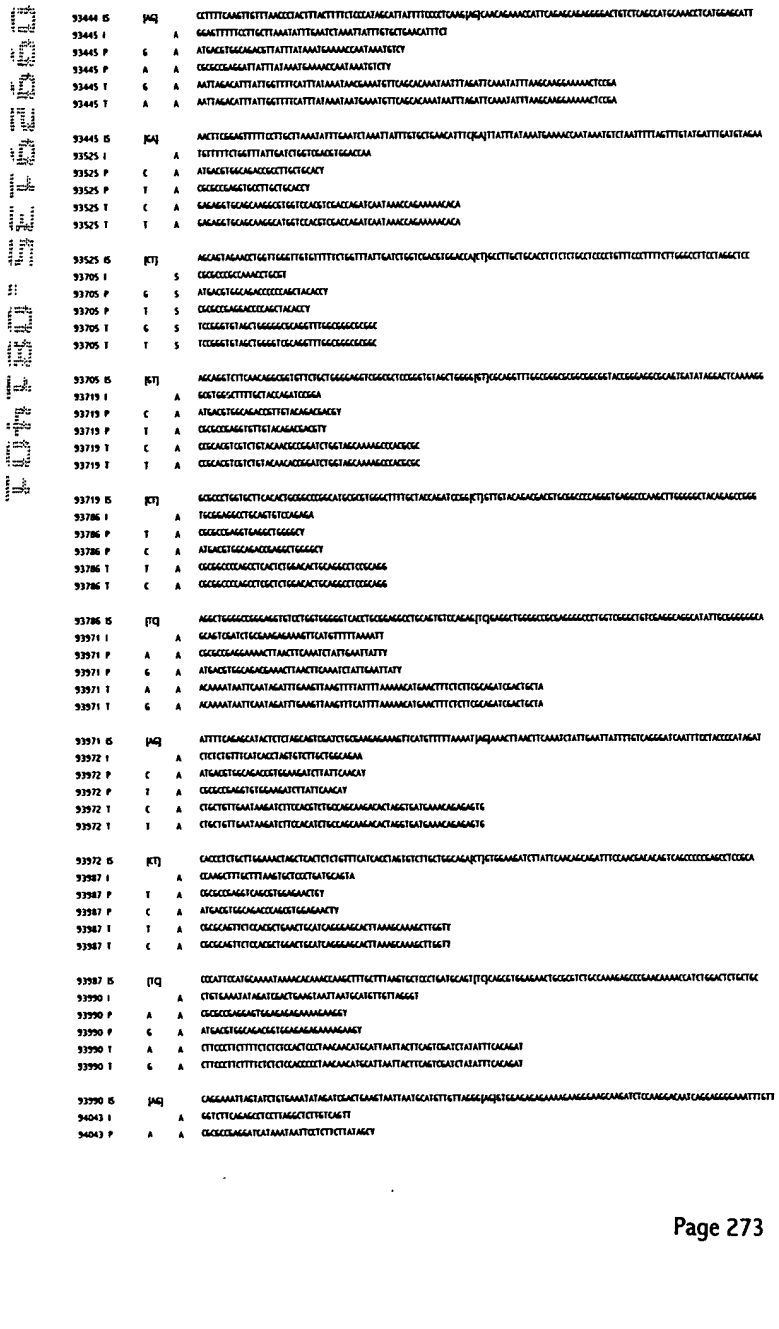


FIGURE 129G

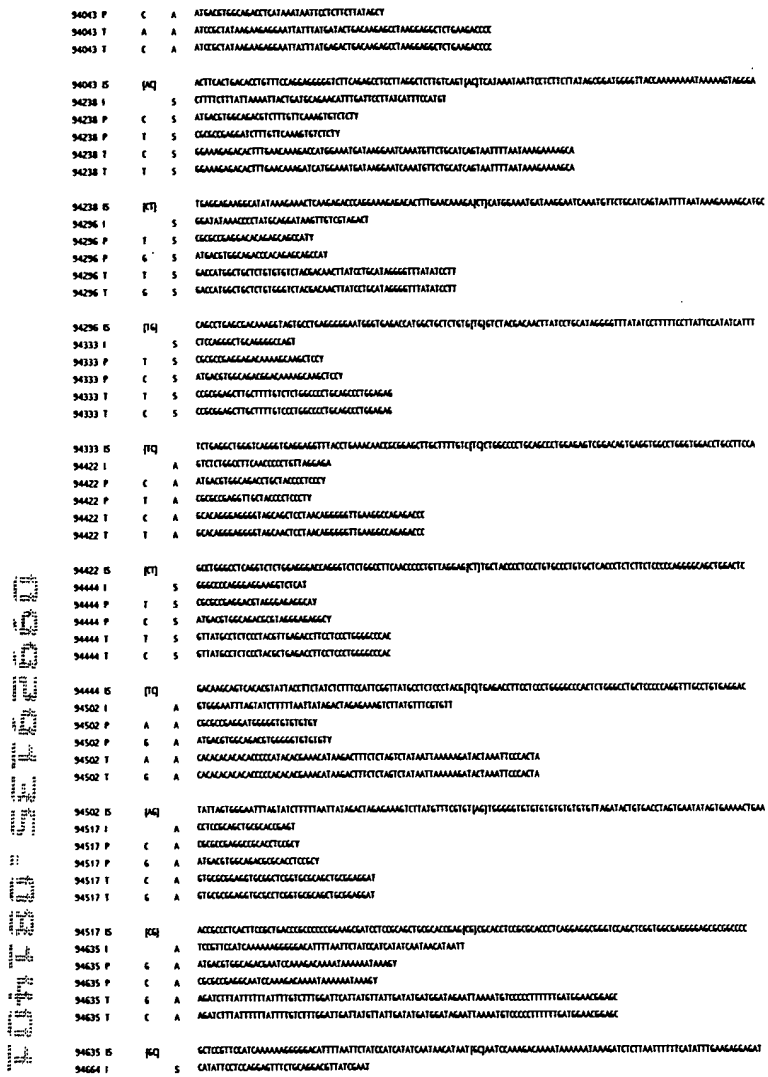
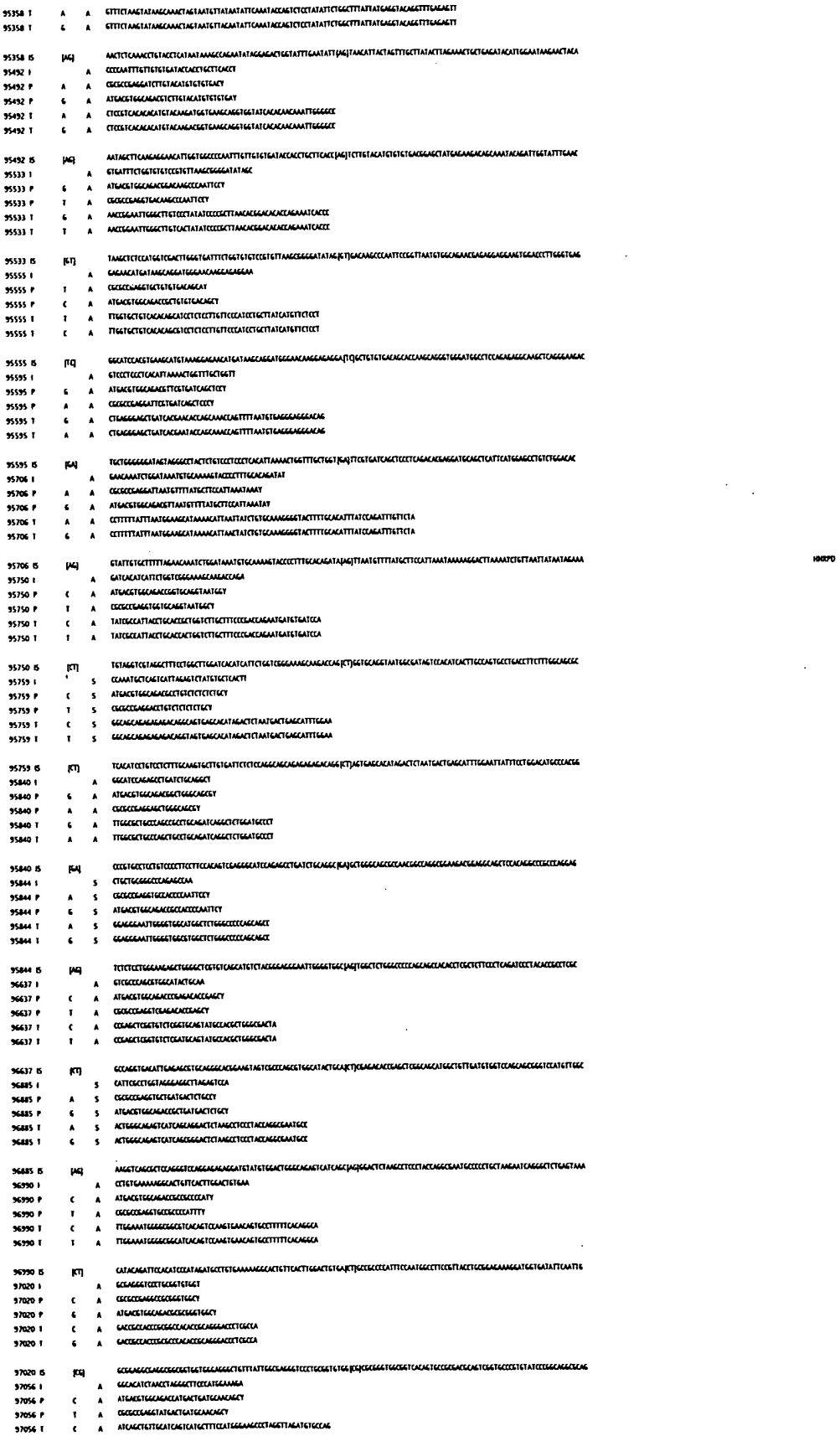


FIGURE 129G



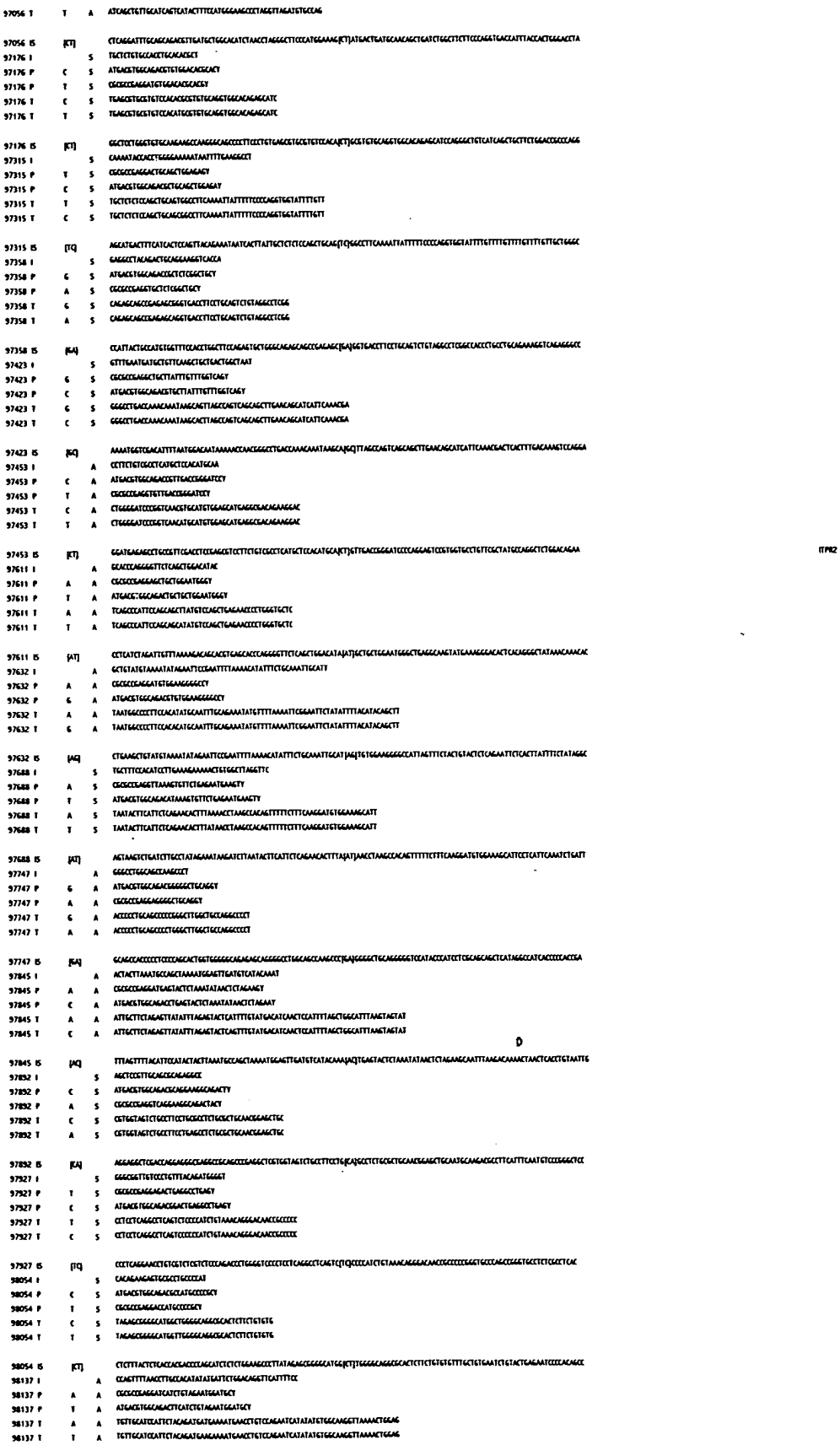
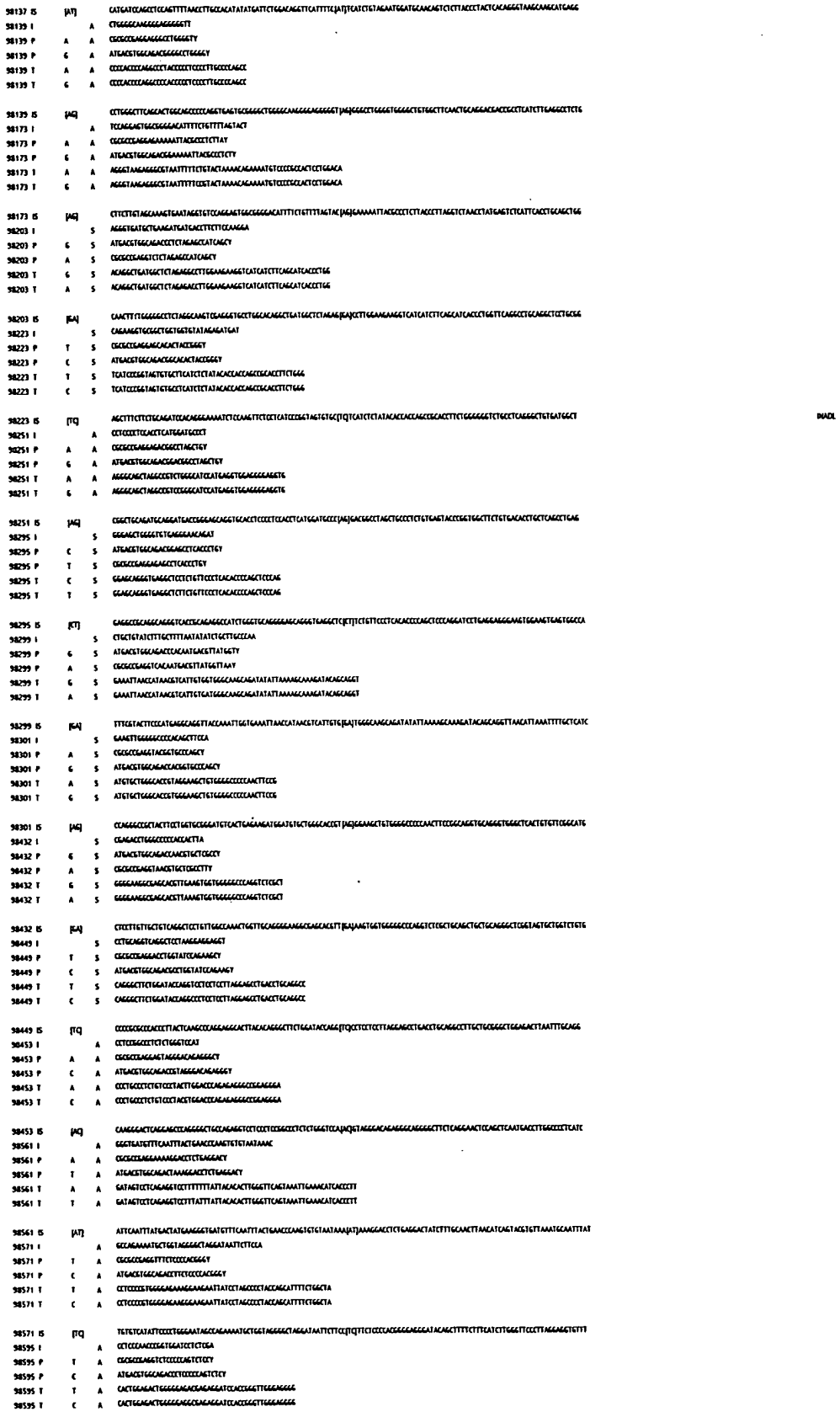


FIGURE 129G



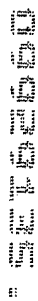


FIGURE 129G

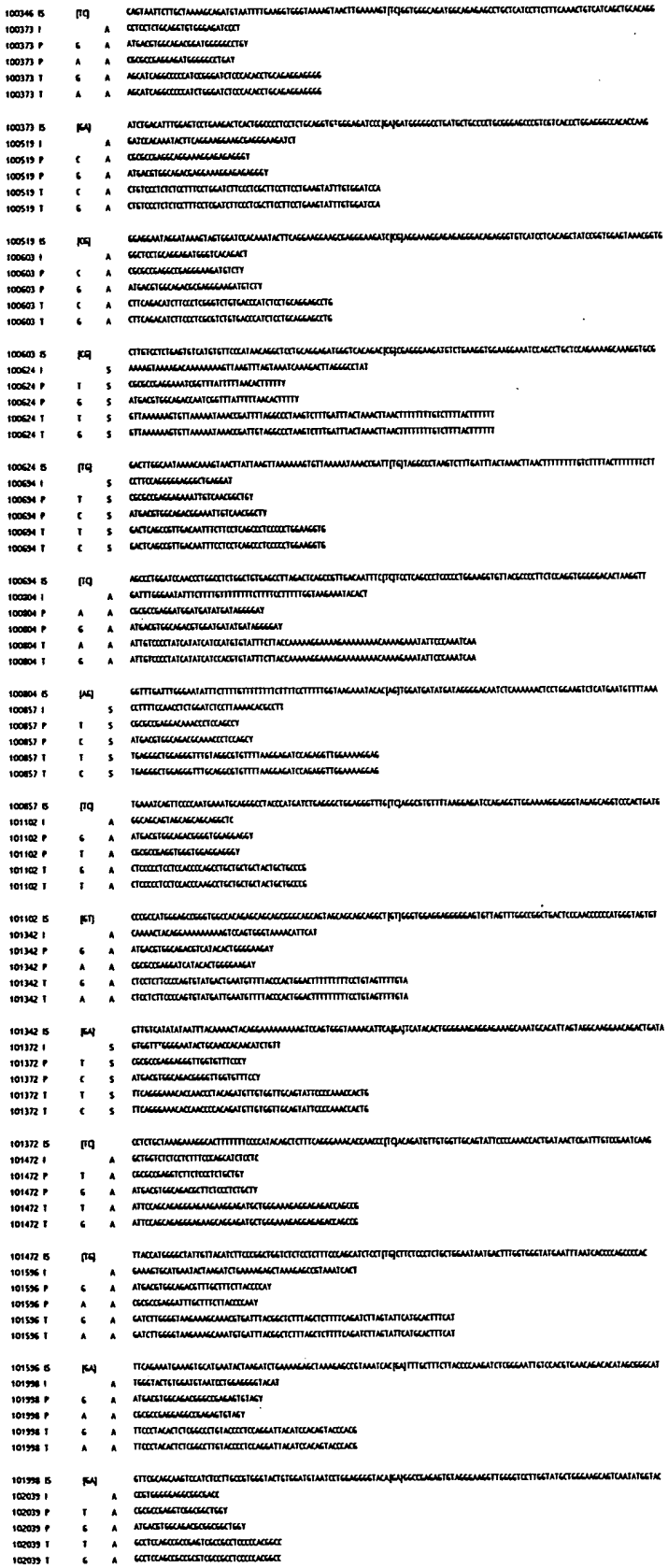


FIGURE 129G

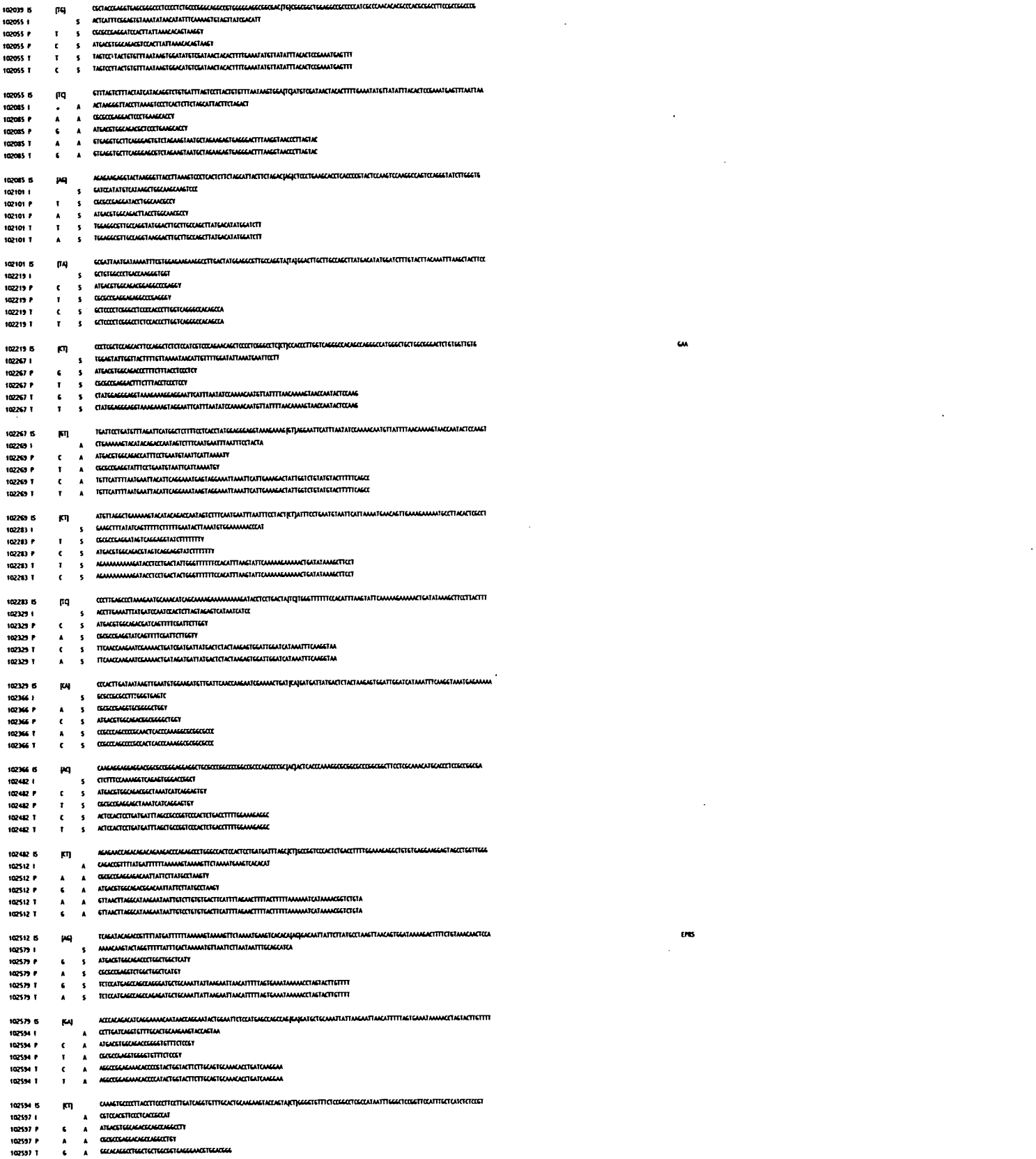


FIGURE 129G

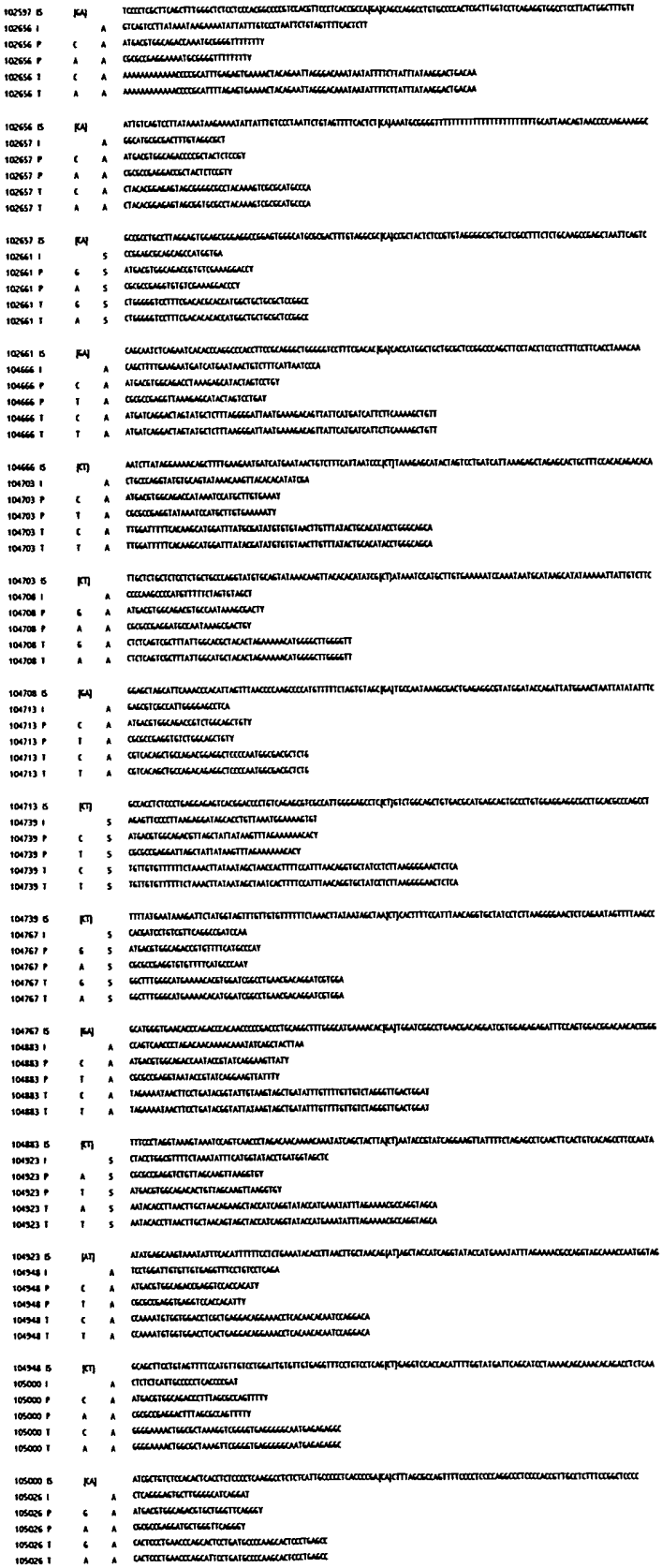
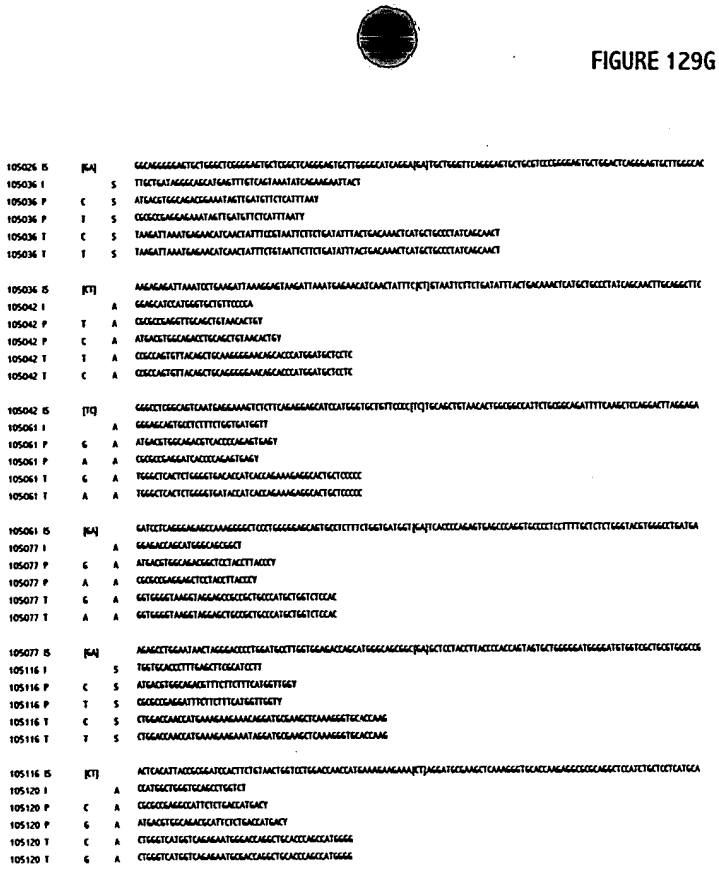
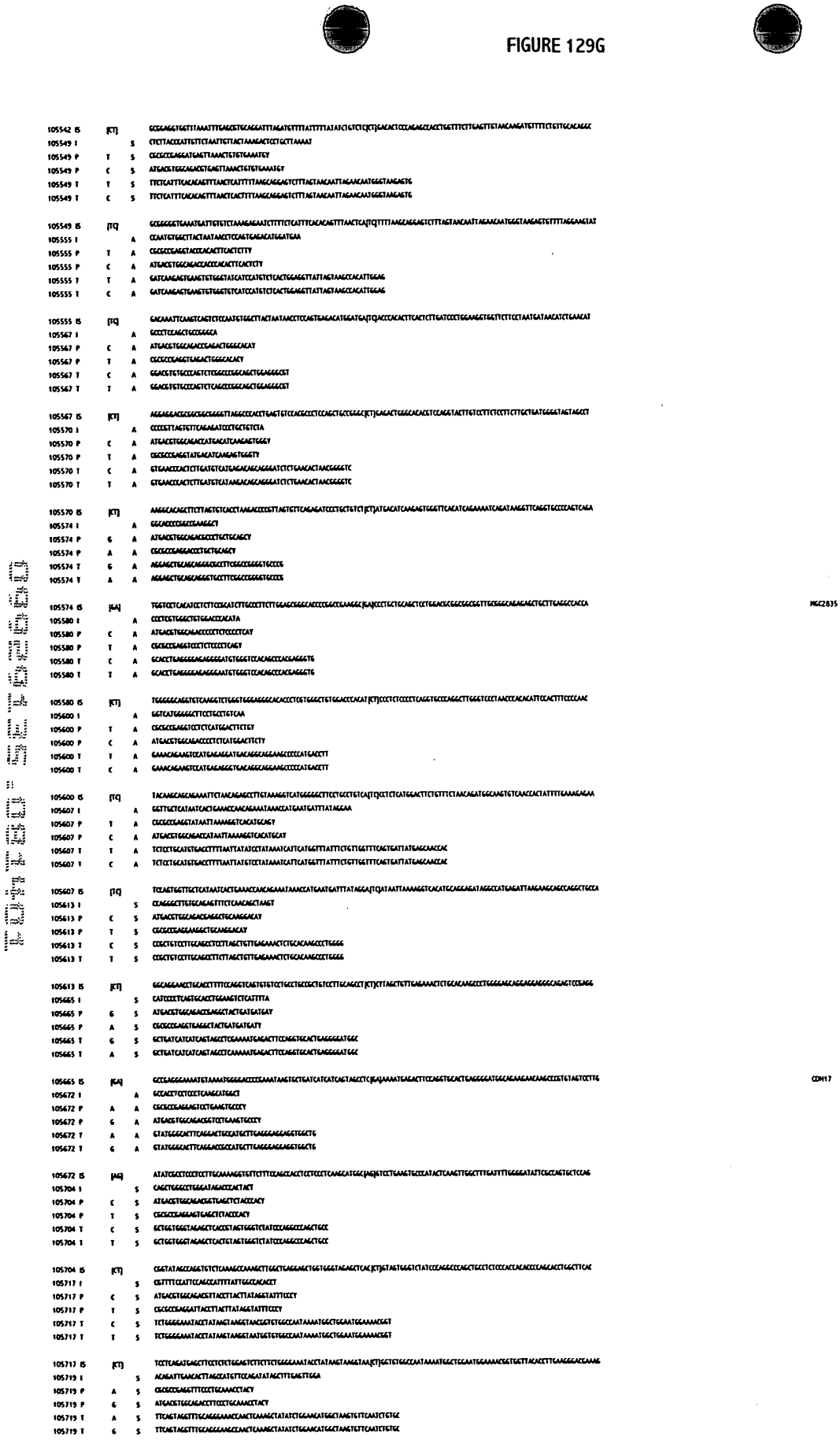


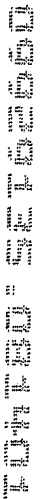
FIGURE 129G














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105723 I       A    GTTTCCCTTTACCCTTGGGCCCAGAAATTAAAGTATTTGACATTAA
105723 P    T  A    CGCGCCGAGGTATATATTTAAAGTGTCAGTGTGGY
105723 P    C  A    ATGACGTGGCAGACCATATATTTAAAGTGTCAGTGTGGY
105723 P    C  A    CTAGCCACACTGACACTTTAAATATATATAATGTCAAATACTTTAATTTCTGGGCCCAAGGGTAAAGGGAAACAT
105723 T    T  A    CTAGCCACACTGACACTTTAAATATATGTAATGTCAAATACTTTAATTTCTGGGCCCAAGGGTAAAGGGAAACAT

105723 IS    [TC]     AATCTCTAAAGGCATATTTCCCTTTACCCTTGGGCCCAGAAATTAAACTATTTGACATTA[TC]ATATATTTAAAGTGTCAGTGTGGCTAGGAATCACAAAGTTCATTACTTAATGTTTTATAT
105745 I       A    CCTGTGAGTGGCAGGTGCGCGTT
105745 P    G  A    ATGACGTGGCAGACGGAGTCAGTTCCCCTCY
105745 P    A  A    CGCGCCGAGGAGAGTCAGTTCCCCTCY
105745 T    G  A    CATGGAGGGGAACTGACTCCACGCGCACCTGCCACTCACAGGTG
105745 T    A  A    CATGGAGGGGAACTGACTCTACGCGCACCTGCCACTCACAGGTG

105745 IS    [GA]     AAGGCTCCCCTACCTCCCATGACCGTCTGTGAGCTTCACCTGTGAGTGGCAGGTGCGCGT[GA]CAGTCAGTTCCCCTCCATGCCCGCCTGCATTCCTACCCGGAGACCTCCGGCCGCGGTGGG
105749 I       A    AGCCTTGTAAACAATTCAGCAAGGCACTGGGTTT
105749 P    G  A    ATGACGTGGCAGACGGTGGCAGGTAGAAAAAGY
105749 P    C  A    CGCGCCGAGGCGTGGCAGGTAGAAAAAGY
105749 T    G  A    TCAGCTTTTTCTACCTCCCACCAACCCAGTGCCTTGCTGAATTGTTTACAAGGCTGA
105749 T    C  A    TCAGCTTTTTCTACCTCCCACCAACCCAGTGCCTTGCTGAATTGTTTACAAGGCTGA

105749 IS    [GC]     CTCAAATACATGAGGAGATTATTTCTCAGCCTTGTAAACAATTCAGCAAGGCACTGGGTT[GC]GTGGCAGGTAGAAAAAGCTCACGAATTTAACAGAAGATCTTCAAGGTCCCCCTGCATGAA
105753 I       A    CCTGCTCTTTCAACAGCCTGACCACAGCCA
105753 P    T  A    CGCGCCGAGGTCACTGAGCAGGATGACY
105753 P    C  A    ATGACGTGGCAGACCGACTGAGCAGGATGAY
105753 T    T  A    TCCTGTCATCCTGCTCAGTCAGGCTGTGGTCAGGCTGTTGAAAGAGCAGGCA
105753 T    C  A    TCCTGTCATCCTGCTCAGTCGGGCTGTGGTCAGGCTGTTGAAAGAGCAGGCA

105753 IS    [TC]     TCGGCTCTGACTACATTCCACTTACTATTTGCCTGCTCTTTCAACAGCCTGACCACAGCC[TC]GACTGAGCAGGATGACAGGACTCCTGGCAGACTTCAAGCTGTCTGGCCACCCCCAAAGAC
105803 I       A    CCCGCAGAGCTCTCTGGCCTTGGA
105803 P    C  A    ATGACGTGGCAGACCGGTTCTCACCTGTCAY
105803 P    T  A    CGCGCCGAGGTGGTTCTCACCTGTCAAY
105803 T    C  A    CCACTTGACAGGTGAGAACCACCAAGGCCCAGAGAGCTCTCCGGGCA
105803 T    T  A    CCACTTGACAGGTGAGAACCACCAAGGCCCAGAGAGCTCTCCGGGCA

105803 IS    [CT]     CGTGGGGCTGCCCCTCCCCTGGCGGGGCCCTGACTGCCCGGAGAGCTCTCTGGGCCTTGG[CT]GGTTCTCACCTGTCAAGTGGGCGTGGCCACCTGAGCTCCCTCCCTCCGGCCCCTGCTGACC
105809 I       S    GGTTTAGCACTCTCAAAAAATTGATACCTGATCTGATTCATTTAATAAATATTGAGTATCA
105809 P    G  S    ATGACGTGGCAGACCACTCTCTGTCAGTTTCTTTY
105809 P    A  S    CGCGCCGAGGTACTCTCTGTCAGTTTCTTTTCY
105809 T    G  S    CCTAGAAAAGAAACTGACAGACAGTGGATACTCAATATTTATTAATGAATCAGATCAGGTATCAATTTTTTGAGAGTGCTAAACC
105809 T    A  S    CCTAGAAAAGAAACTGACAGACAGTAGATACTCAATATTTATTAATGAATCAGATCAGGTATCAATTTTTTGAGAGTGCTAAACC

105809 IS    [GA]     CTCATGTTGTTTTATGTATTACTCTATCCTCTGTTCCTAGAAAAGAAACTGACAGACAGT[GA]CATACTCAATATTTATTAATGAATCAGATCAGGTATCAATTTTTTGAGAGTGCTAAACC
105815 I       S    CAGGTTTTACATGACAAGTGAATGTGCAGGAAGAAATGAAGGAAAT
105815 P    T  S    CGCGCCGAGGAAAACAATTCCTTATCAGAGCAY
105815 P    C  S    ATGACGTGGCAGACGAAACAATTCCTTATCAGAGCY
105815 T    T  S    TGTTTGCTCTGATAAGGAATTGTTTTTTTCCTTCATTTCTTCCTGCACATTCACTTGTCATGTAAAACCTGTT
105815 T    C  S    TGTTTGCTCTGATAAGGAATTGTTTCTTTCCTTCATTTCTTCCTGCACATTCACTTGTCATGTAAAACCTGTT

105815 IS    [TC]     ATCTGTTTTGTGTTTATGATGGTGAGTCTGAACTGTGTTTGCTCTGATAAGGAATTGTTT[TC]TTTCCTTCATTTCTTCCTGCACATTCACTTGTCATGTAAAACCTGTTTTGAGGATTCTGT
105824 I       S    TCAGGCACAGGCCTCCACTCCCCT
105824 P    C  S    ATGACGTGGCAGACGACACTCACCTGTCCTY
105824 P    G  S    CGCGCCGAGGCACACTCACCTGTCCTY
105824 T    C  S    AGGAAGCACAGGTGAGTGTCGGGGCAGTGGAGGCCTGTGCCTGACT
105824 T    G  S    AGGAAGCACAGGTGAGTGTCGGGGCAGTGGAGGCCTGTGCCTGACT

105824 IS    [CG]     TGACTGTGACACCCCTGCGTGGAGCCCAGTGGCTGACTTTCAGGAAGGACAGGTGAGTGT[CG]CGGGGAGTGGAGGCCTGTGCCTGACTAGGTGAGGGCCCAGGCCCAAGCTCCAAGGAAGAAA
105832 I       A    TGCTTCCAACGTGGATTAAAATATCAAAGAGAACATGGCCATT
105832 P    A  A    CGCGCCGAGGAATGCACATTCTCTGTTACAY
105832 P    C  A    ATGACGTGGCAGACCATGCACATTCTCTGTTACAY
105832 T    A  A    CATTTGTAACAGAGAATGTGCATTATGGCCATGTTCTCTTTGATATTTTAATCCACGTTGGAAGCAAA
105832 T    C  A    CATTTGTAACAGAGAATGTGCATGATGGCCATGTTCTCTTTGATATTTTAATCCACGTTGGAAGCAAA

105832 IS    [AC]     CCCACCAATGATATATTTTGCTTCCAACGTGGATTAAAATATCAAAGAGAACATGGCCATT[AC]ATGCACATTCTCTGTTACAAATGGAAGTTAATTGAAAAAGACTTCAATGCTGATTCAAGG
105862 I       A    GGAGCCCCCCGGGGTGTTTCAGC
105862 P    G  A    ATGACGTGGCAGACGCGCGTTGACGCY
105862 P    T  A    CGCGCCGAGGTCGCGTTGACGCAY
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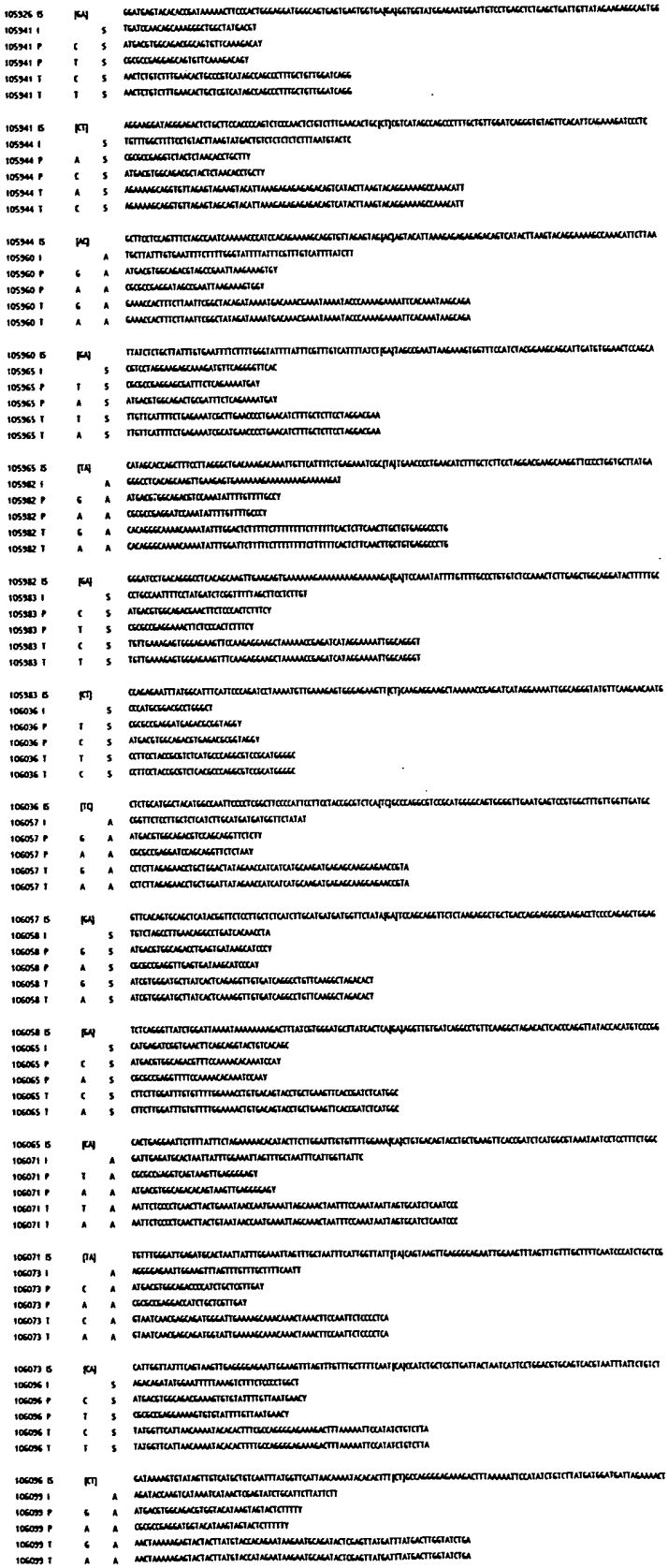
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105869 I       S    CCAAAAGTGAACTTAGCCACTTCAGCAGTCCTATAGCTC
105869 P    A  S    CGCGCCGAGGTTTAACGGTAGGAAGAGATTACY
105869 P    C  S    ATGACGTGGCAGACGTTAACGGTAGGAAGAGATTACY
105869 T    A  S    TTTAGTAATCTCTTCCTACCGTTAAAAGCTATAGGACTGCTGAAGTGGCTAAGTTCACTTTTGGGT
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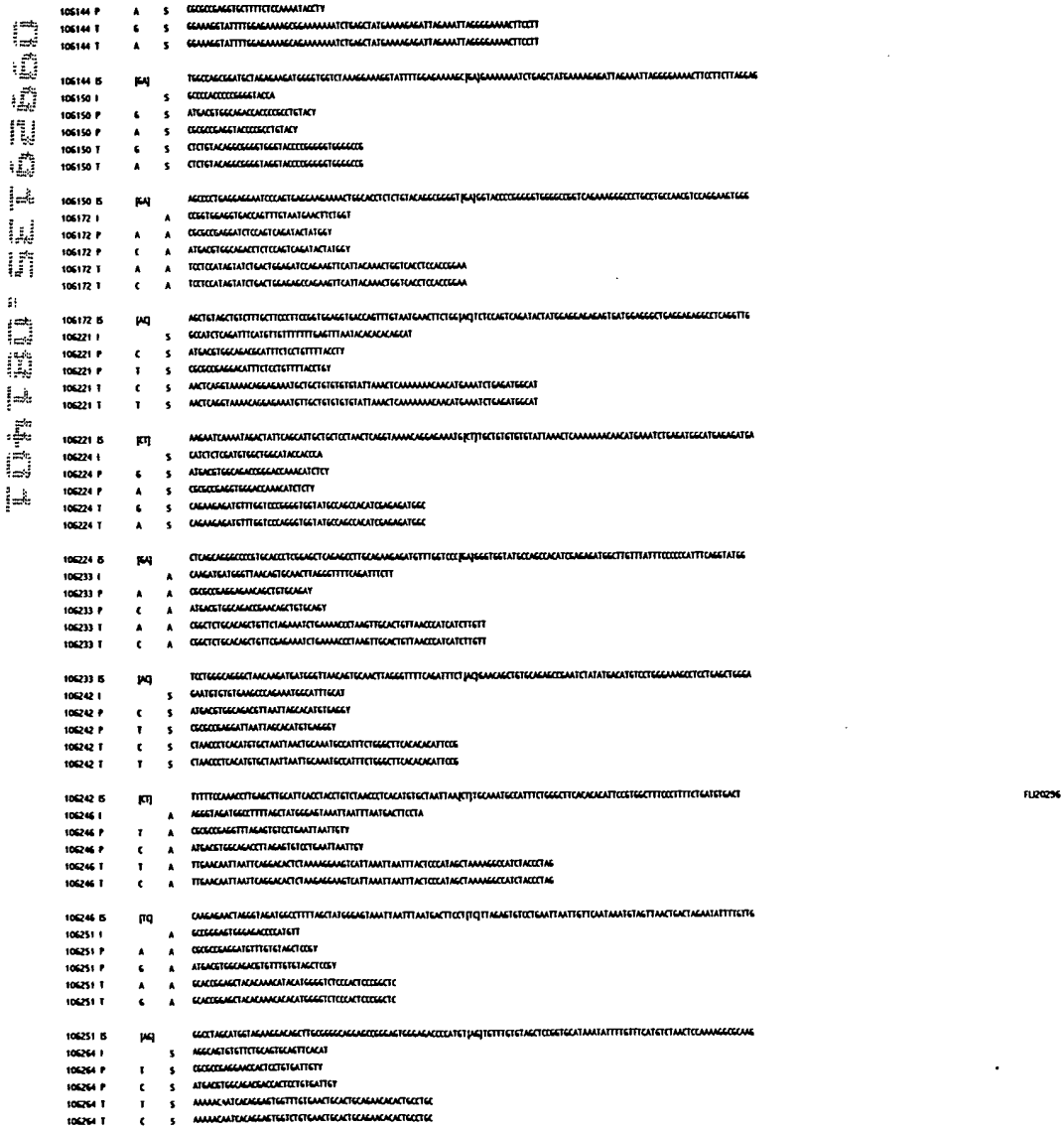
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105894 I       A    CAACAGTAGTGTCTTCCTACAAGAAGAAATTAATTCTTATATAATGATCATTCTCAGC
105894 P    T  A    CGCGCCGAGGTTTGGGCTTTAAGAATCACAY
105894 P    A  A    ATGACGTGGCAGACATTGGGCTTTAAGAATCACAY
105894 T    T  A    GTTTTGTGATTCTTAAAGCCCAAACTGAGAATGATCATTATATAAGAATTAATTTCTTCTTGTAAGAAGACACTACTGTTGGC
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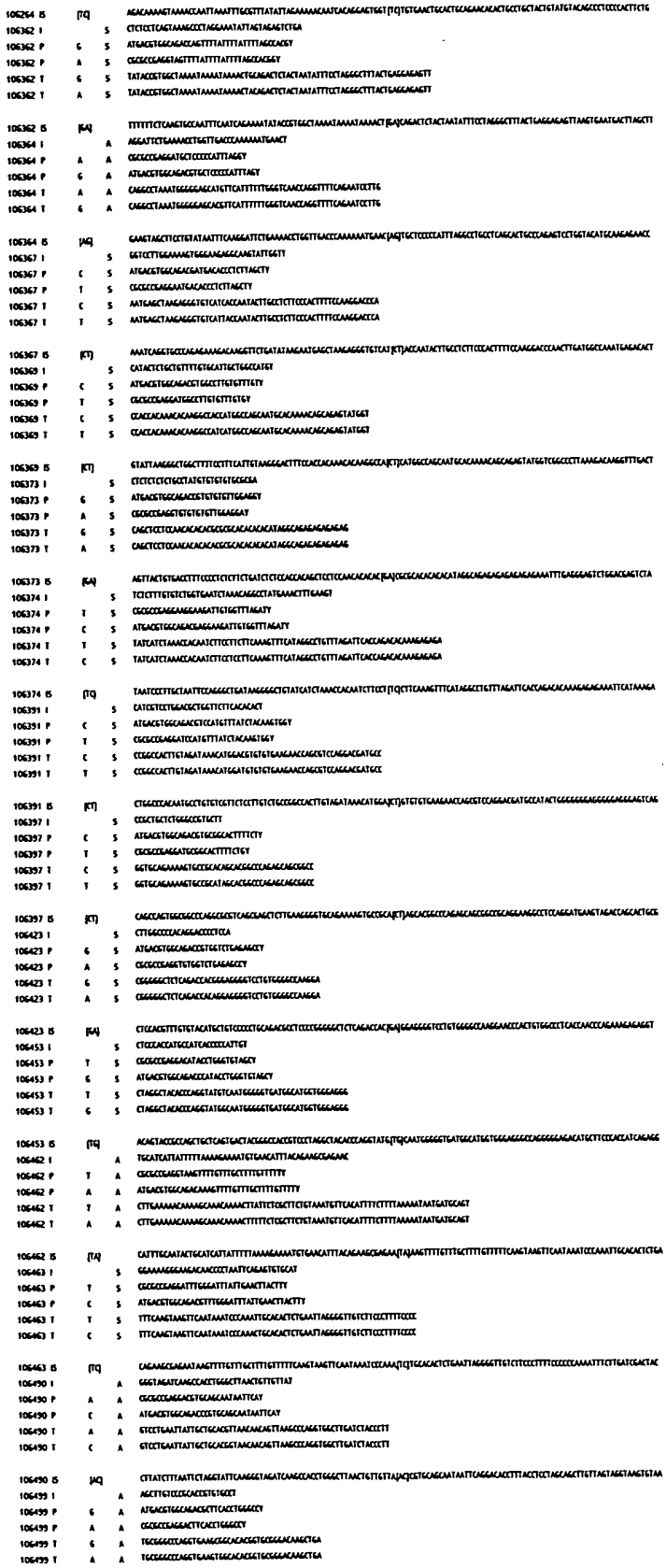
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105910 I       A    GCTCCCAGAAAGCAACTGGAAGCTGCT
105910 P    C  A    ATGACGTGGCAGACCCTCGTGGGGACCY
105910 P    A  A    CGCGCCGAGGACTCGTGGGGACCTY
105910 T    C  A    GGCCAGGTCCCCACAAGGCAGGCTCCAGTGGTTTCTGGGAGCCT
105910 T    A  A    GGCCAGGTCCCCACAAGTCAGGCTCCAGTGGTTTCTGGGAGCCT

105910 IS    [CA]     GCAGGGCAGGCGGTGGAGGGCACACCTTGTCCTAGGCTCCCAGAAACCACTGGAGCCTGC[CA]CTCGTGGGGACCTGGCCAGACTGCTTTGGTCAGGACACAATAGTGGCTTCAGCCTCAAG
105926 I       S    CTCAGACCTCAGGACAATCCATTCTCCATACCACCA
105926 P    G  S    ATGACGTGGCAGACCTCACCACTCACTCACTY
105926 P    A  S    CGCGCCGAGGTCACCACTCACTCACTY
105926 T    G  S    GGGCAGTGAGTGAGTGGTGAGGGTGGTATGGAGAATGGATTGTCCTGAGCTCTGAGCT
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FIGURE 129G







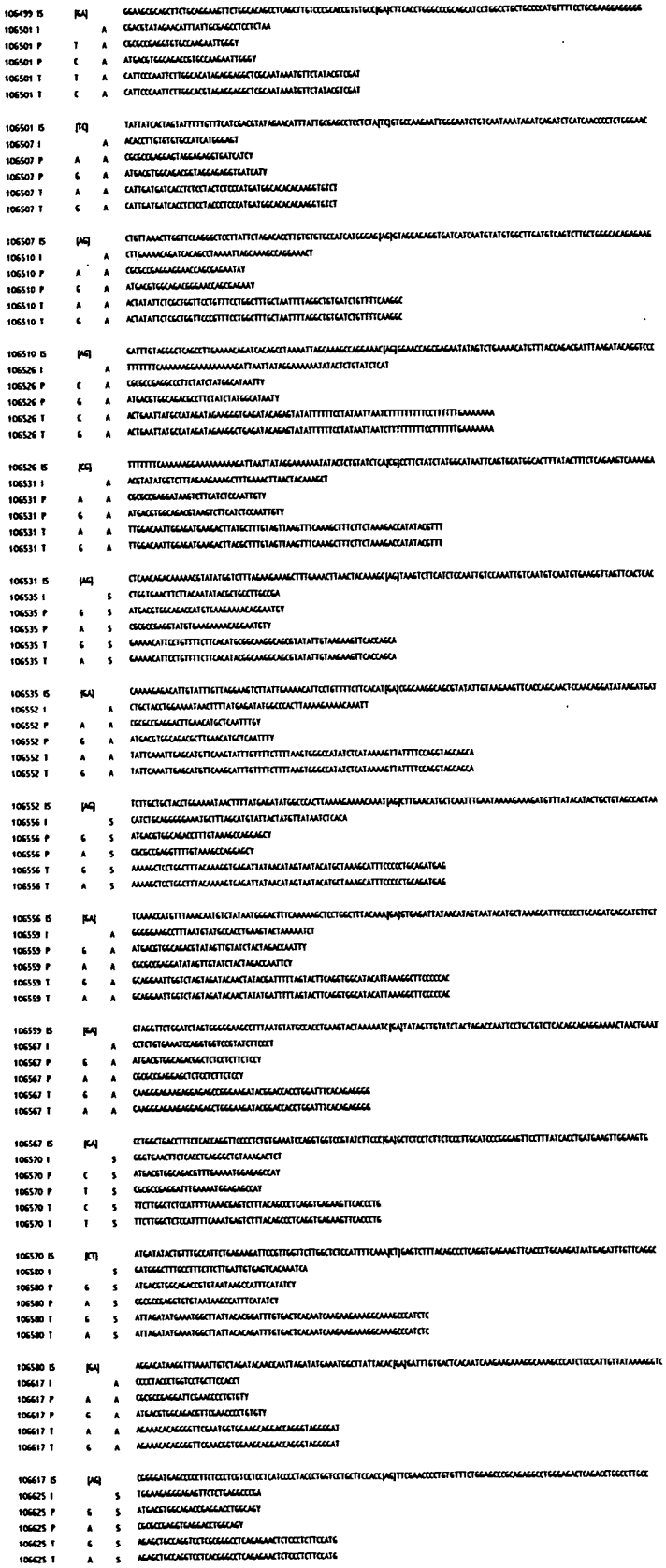


FIGURE 129G

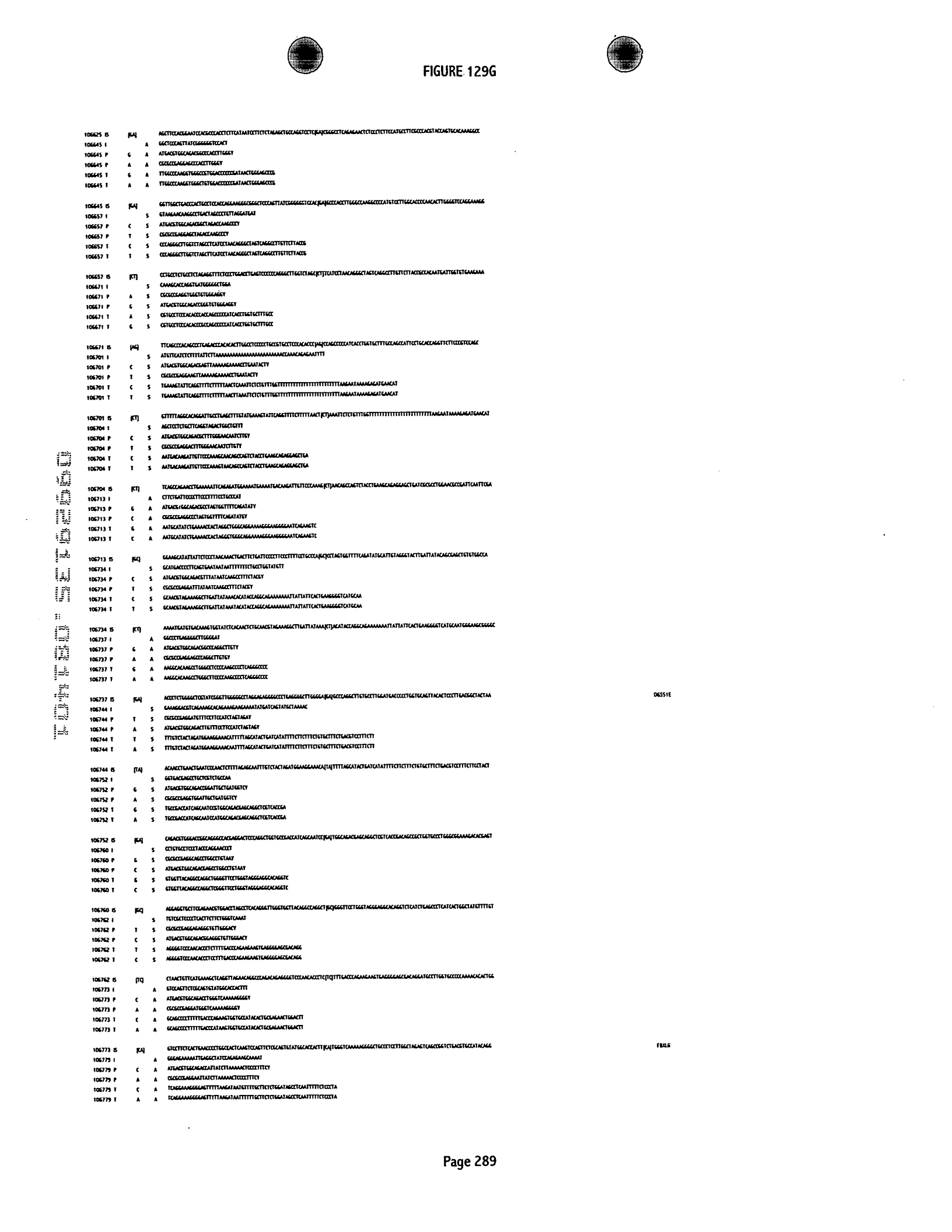


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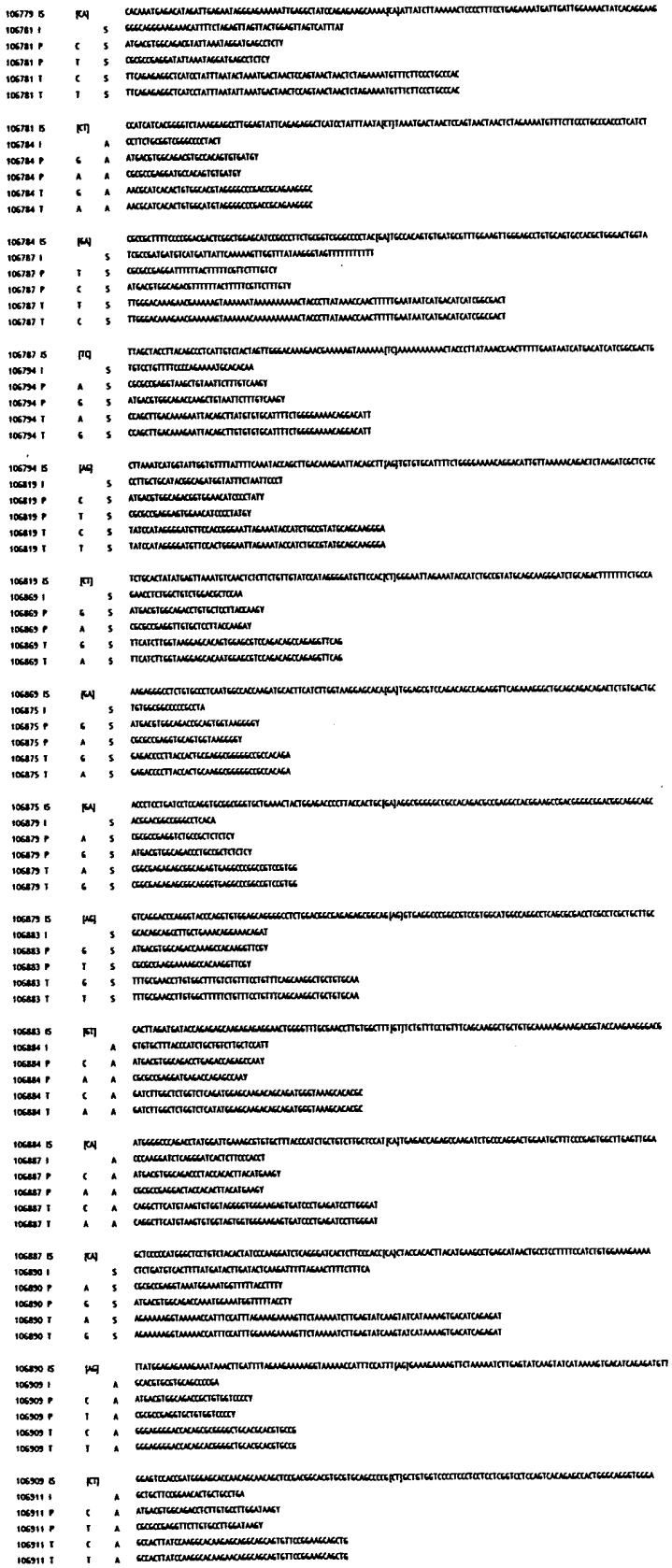


FIGURE 129G

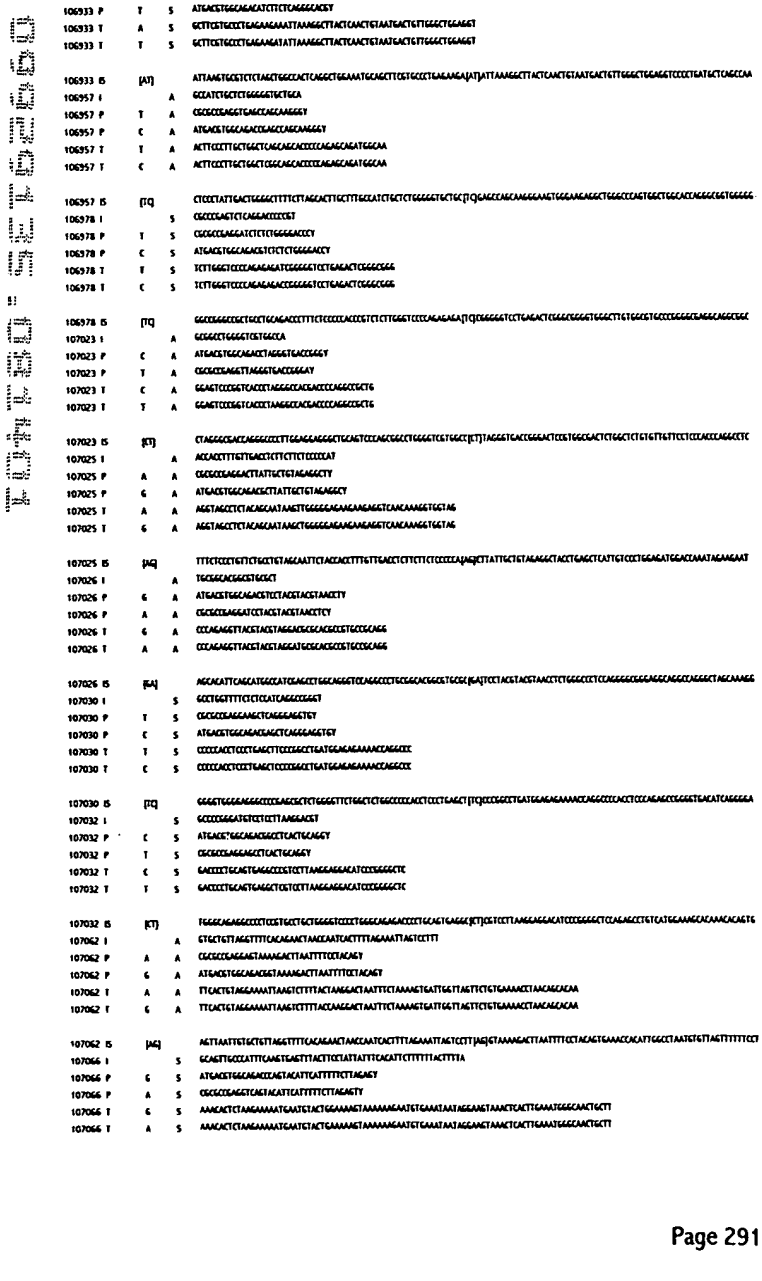


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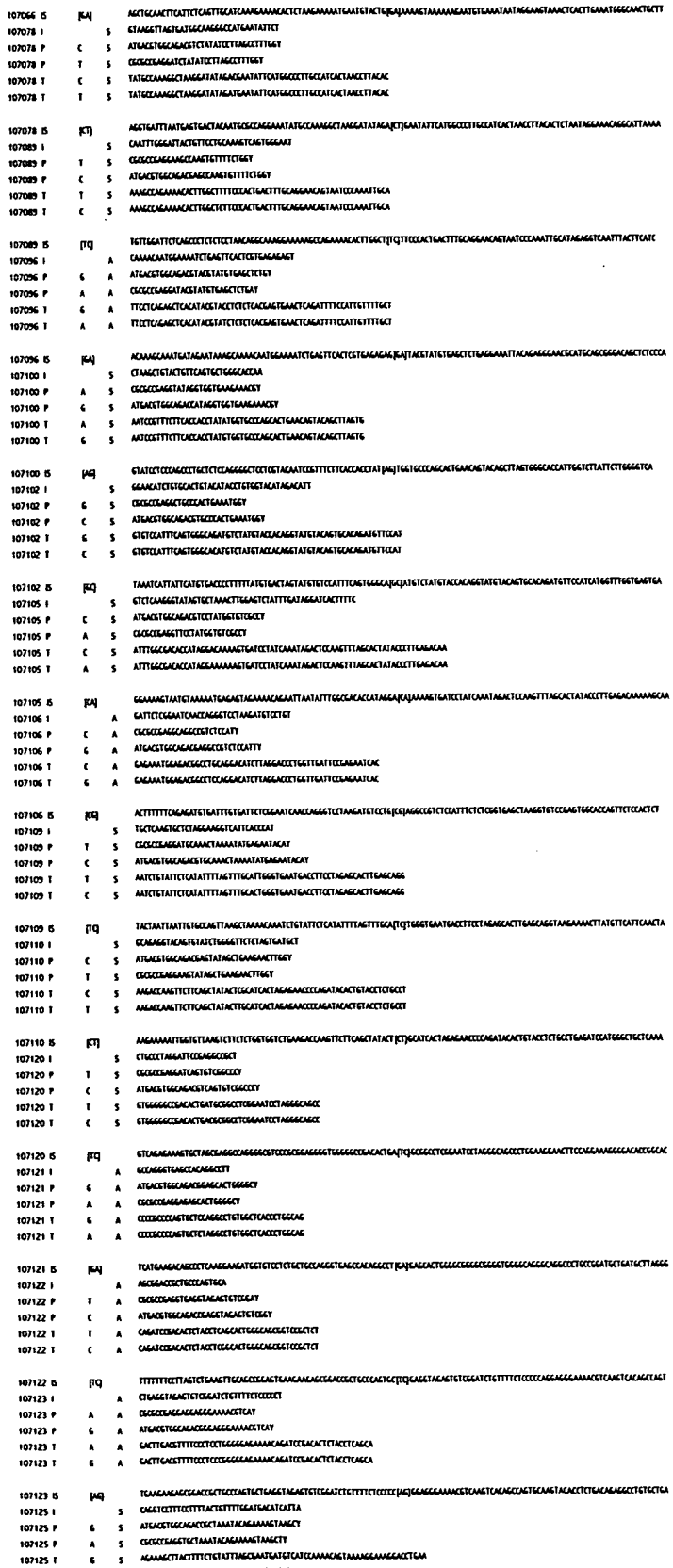


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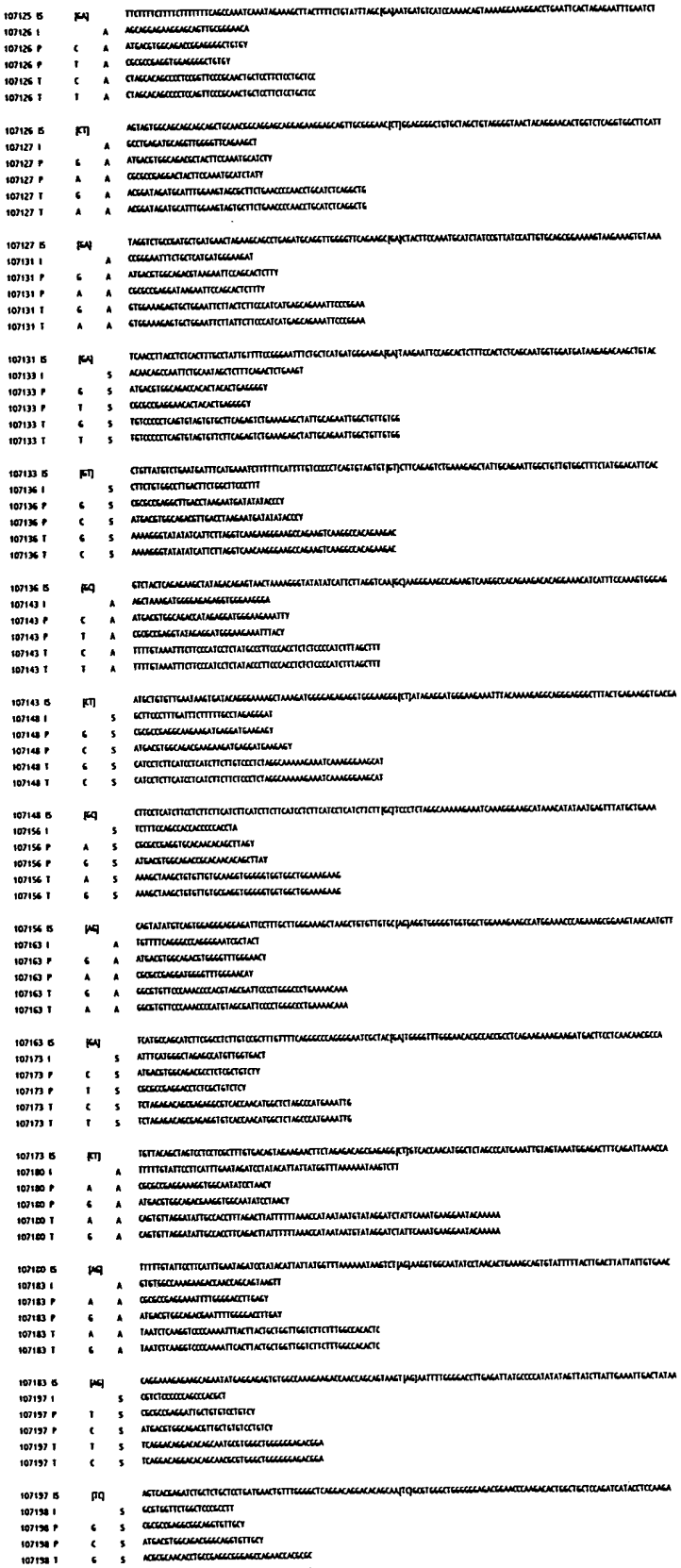


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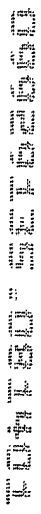
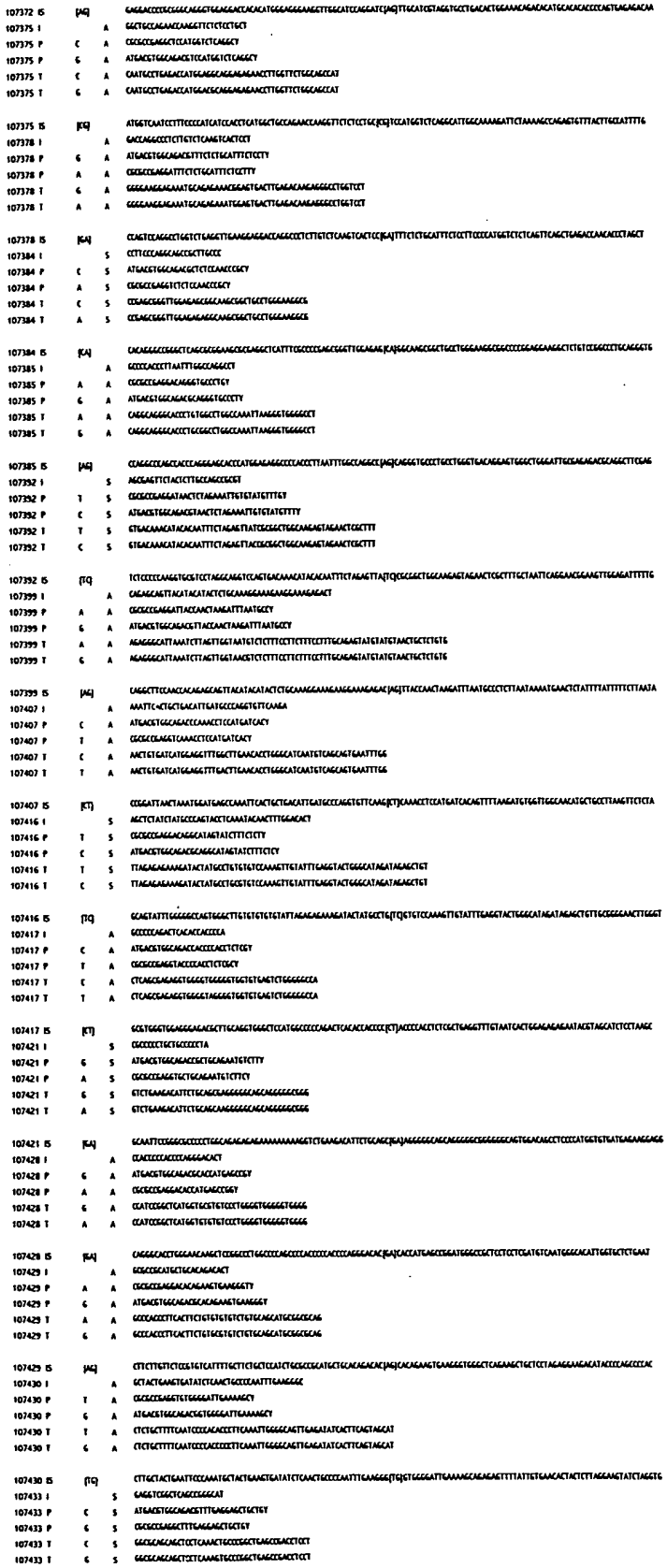
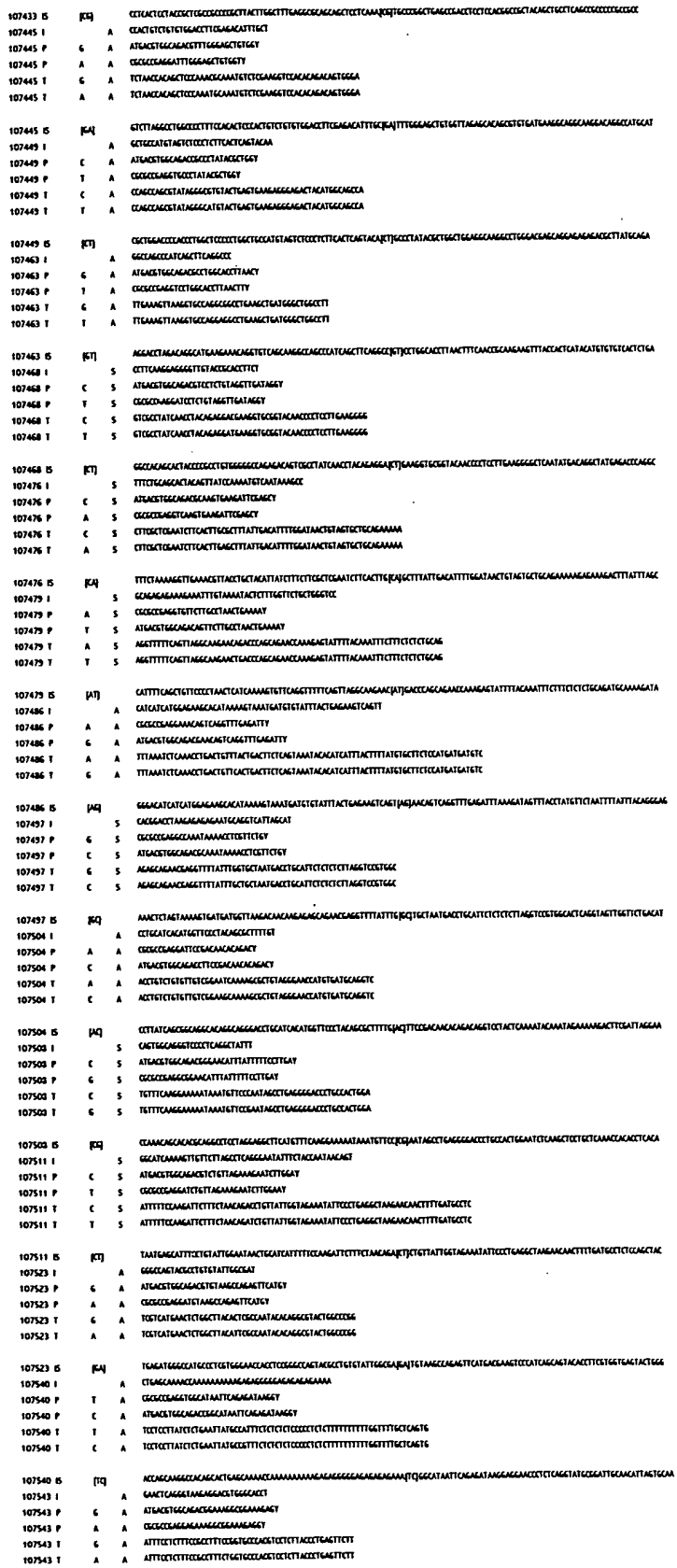


FIGURE 129G





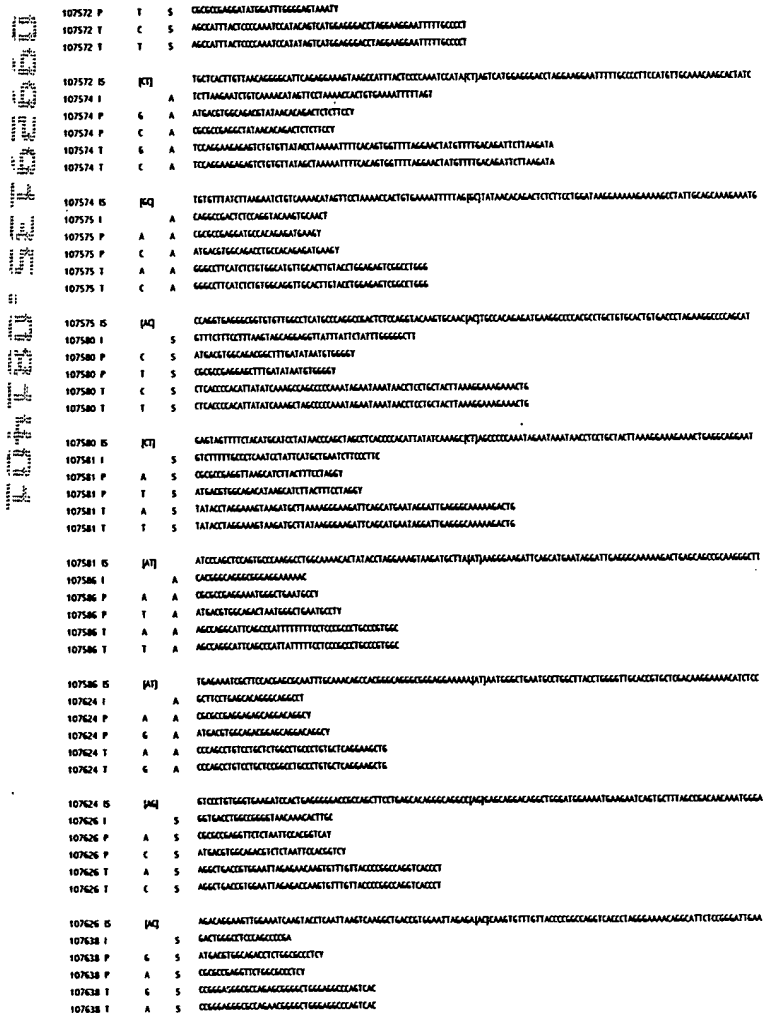
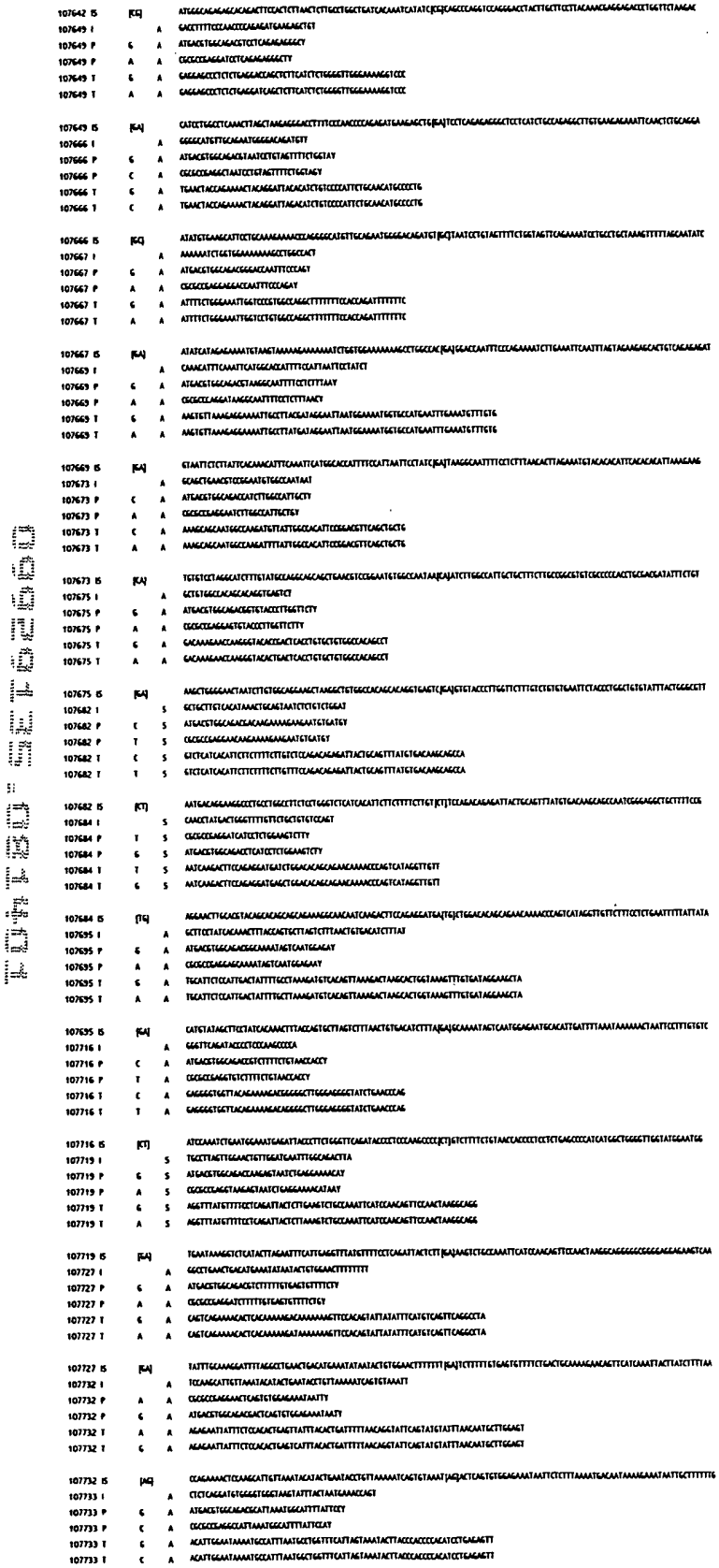
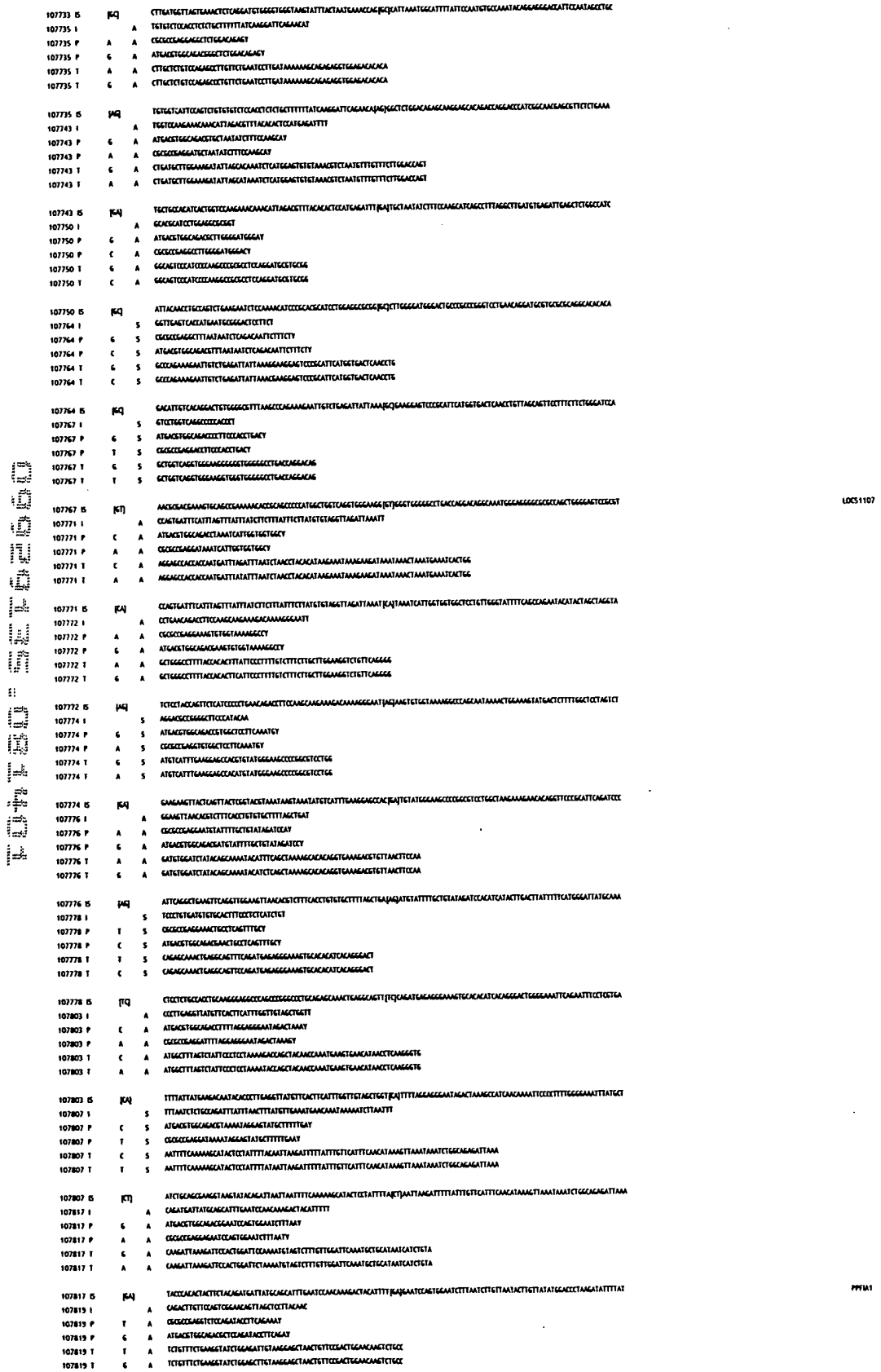
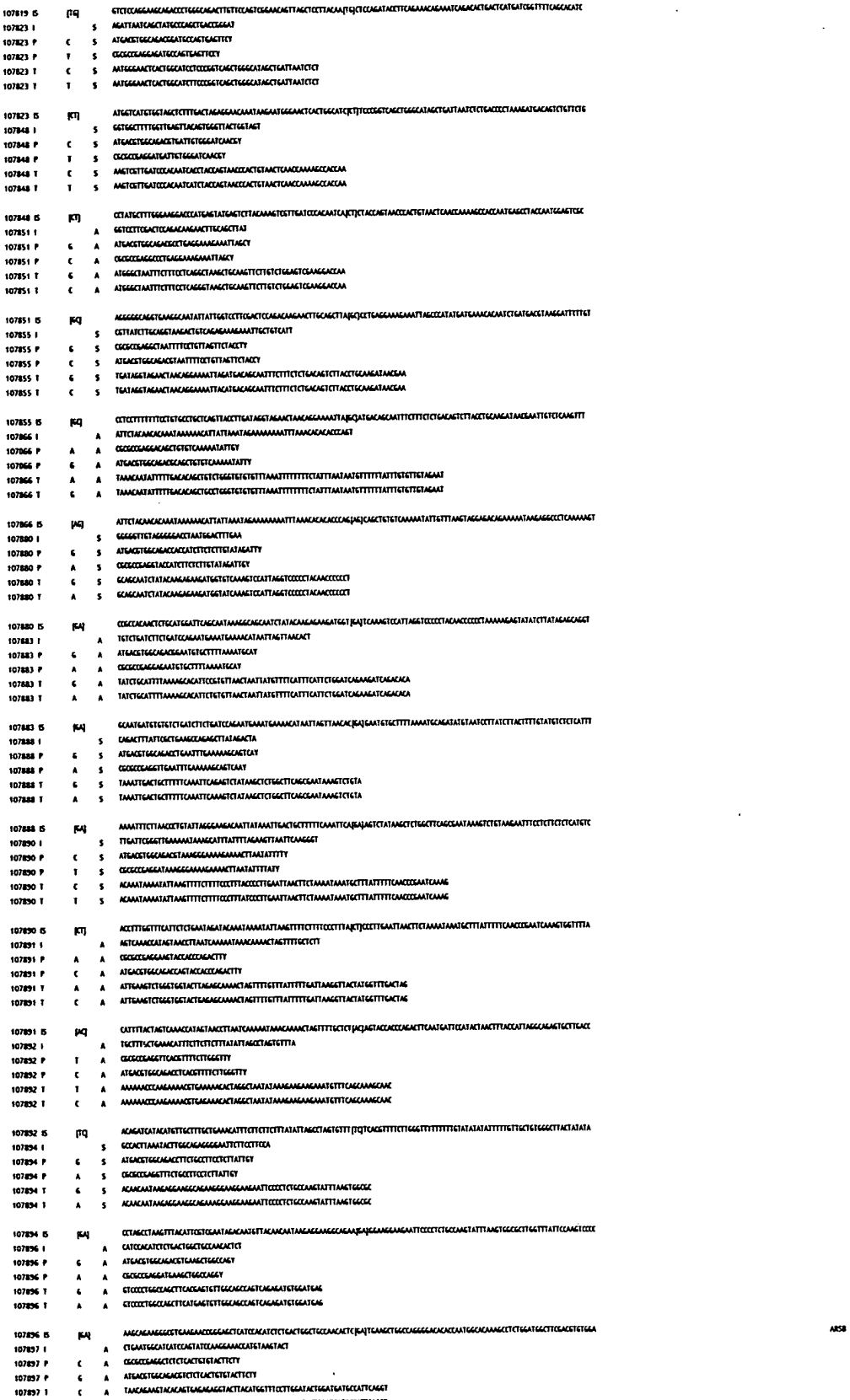


FIGURE 129G



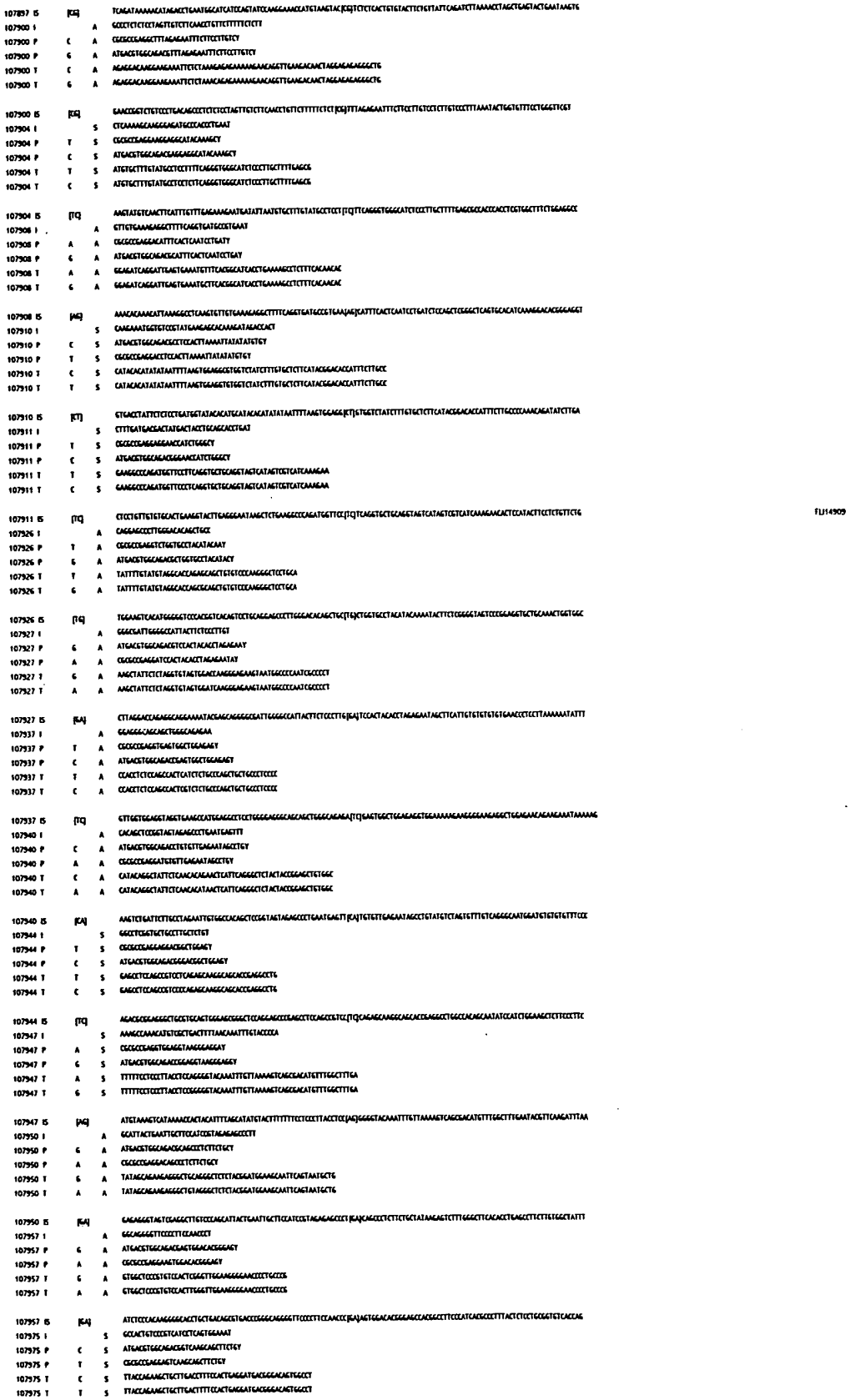


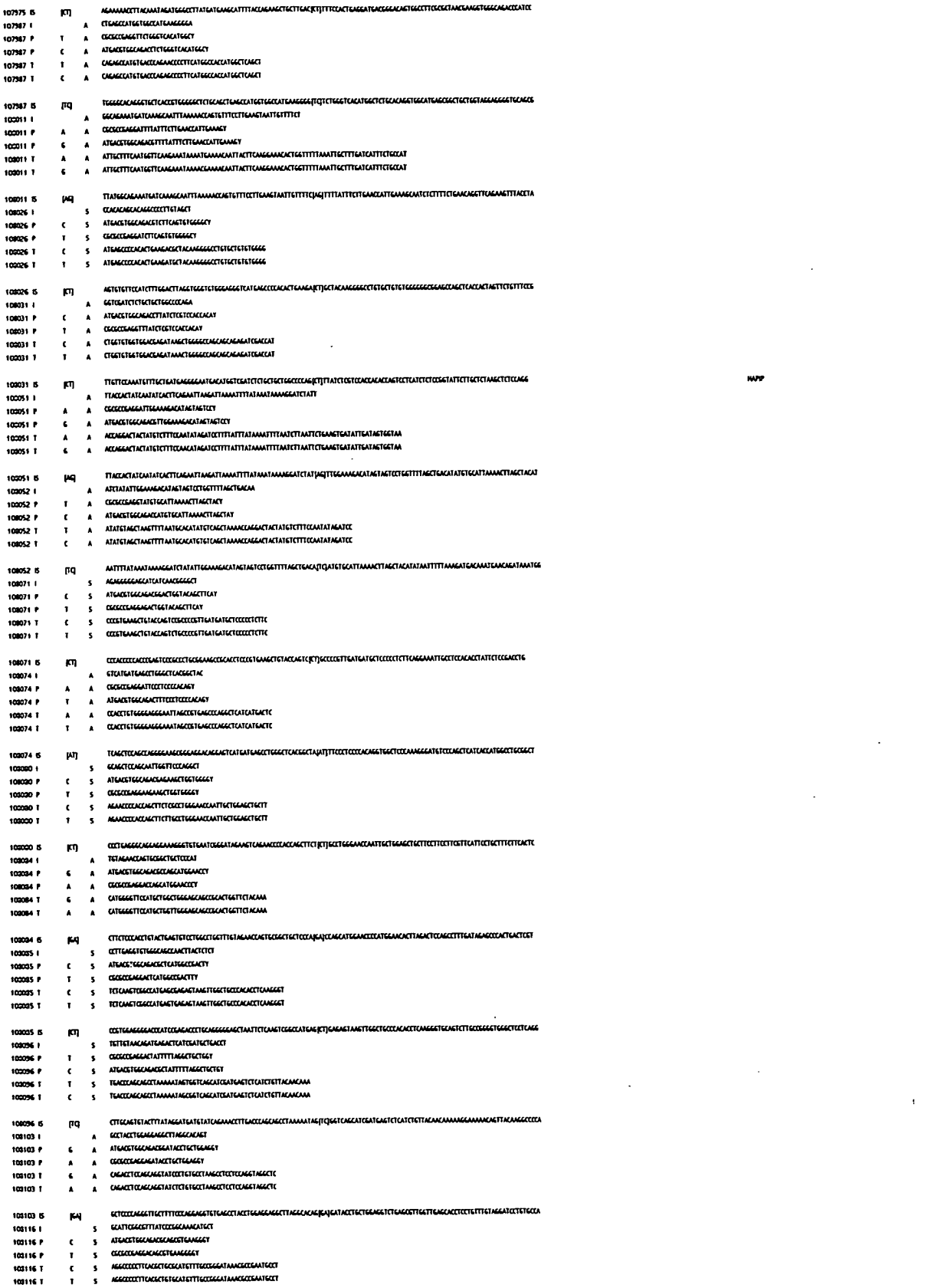
Replacement Sheet



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FIGURE 129G





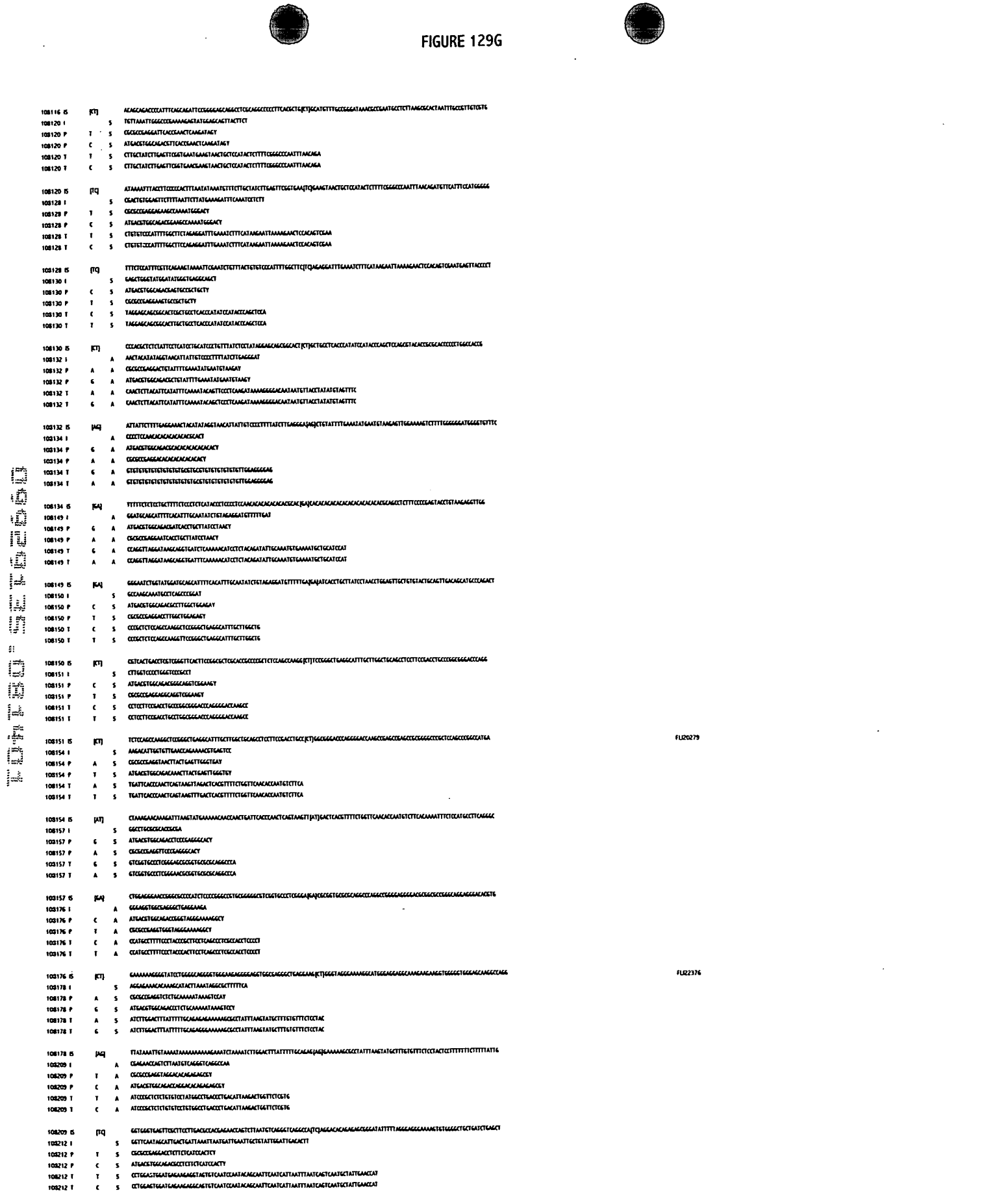
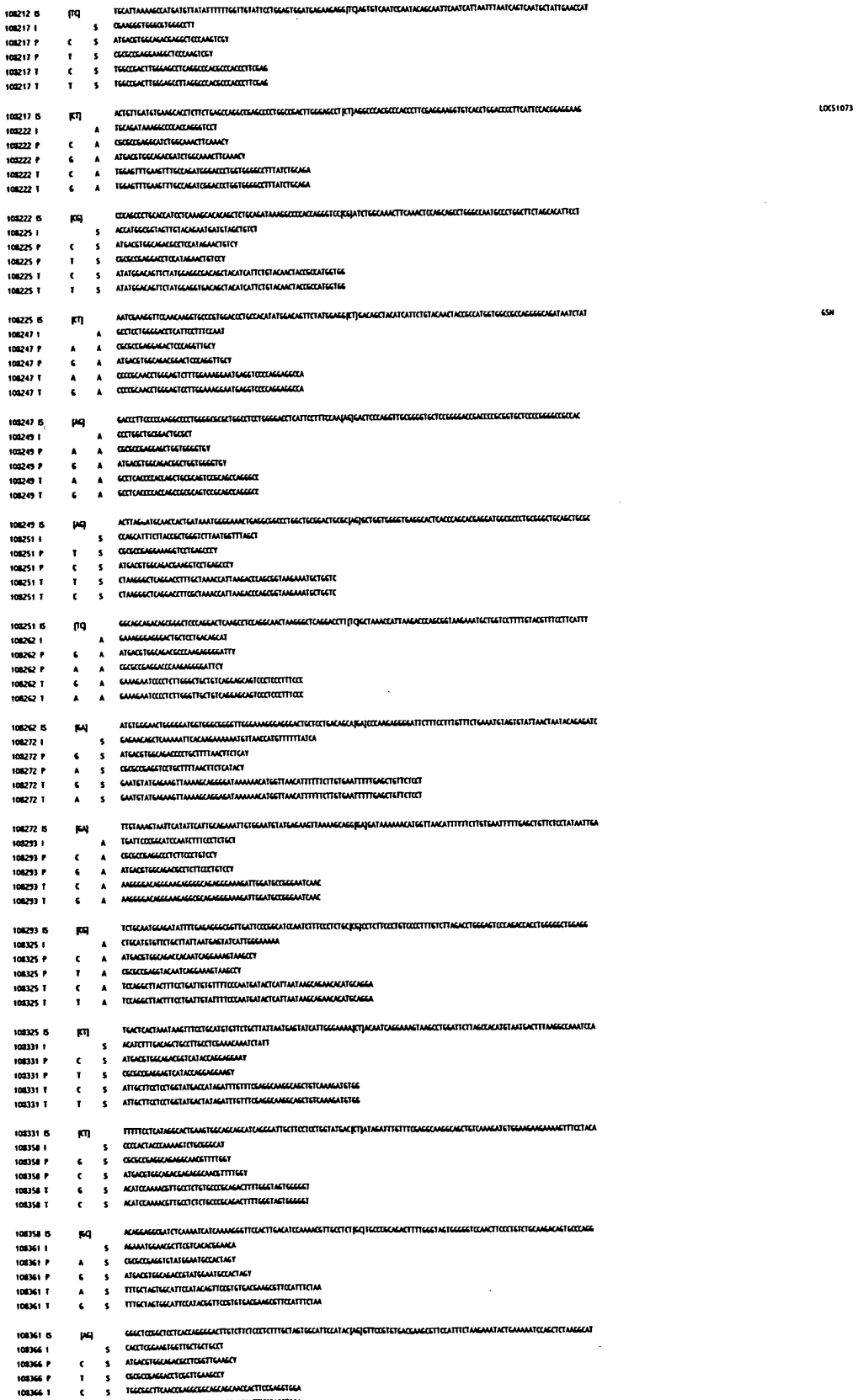


FIGURE 129G



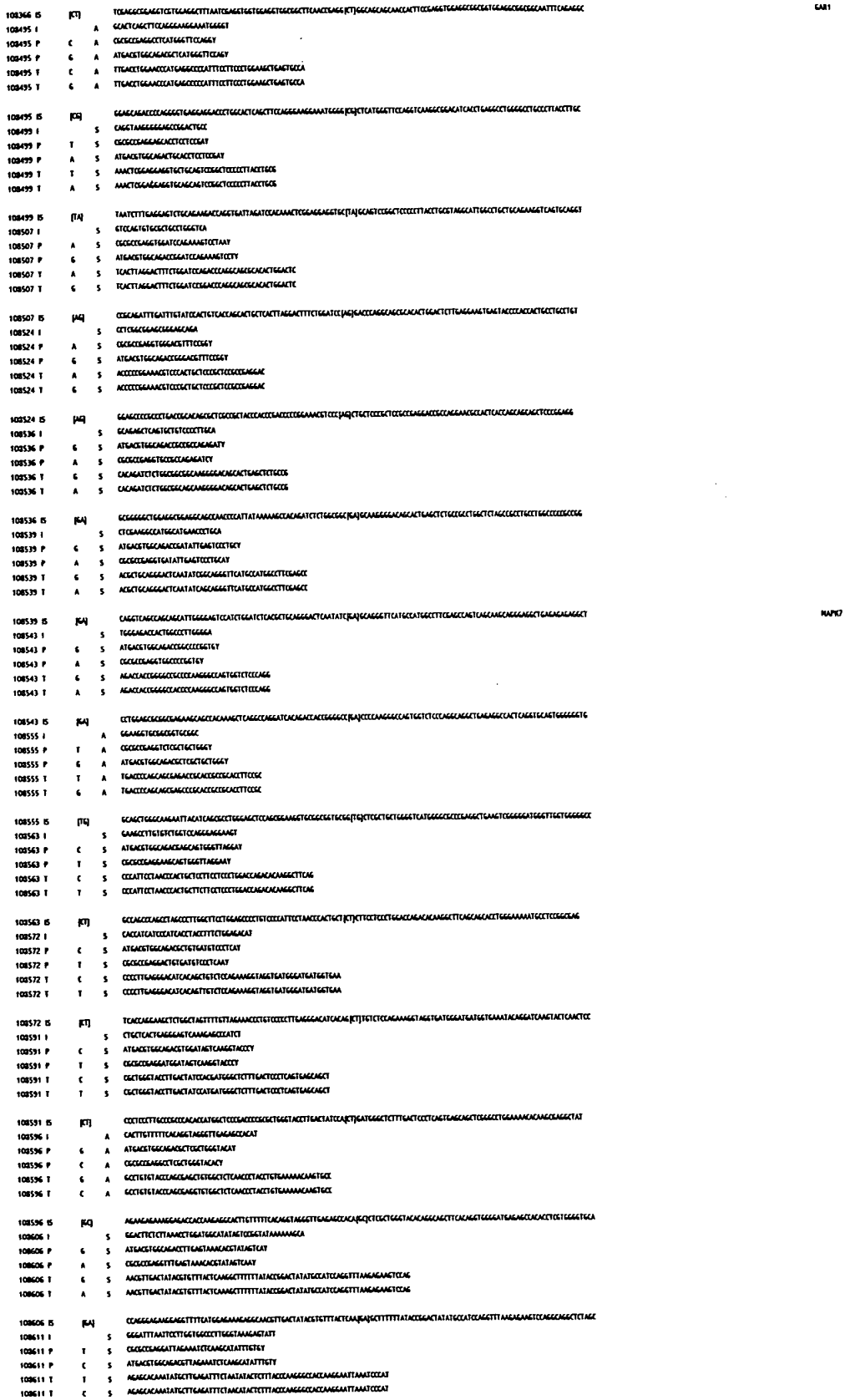


FIGURE 129G

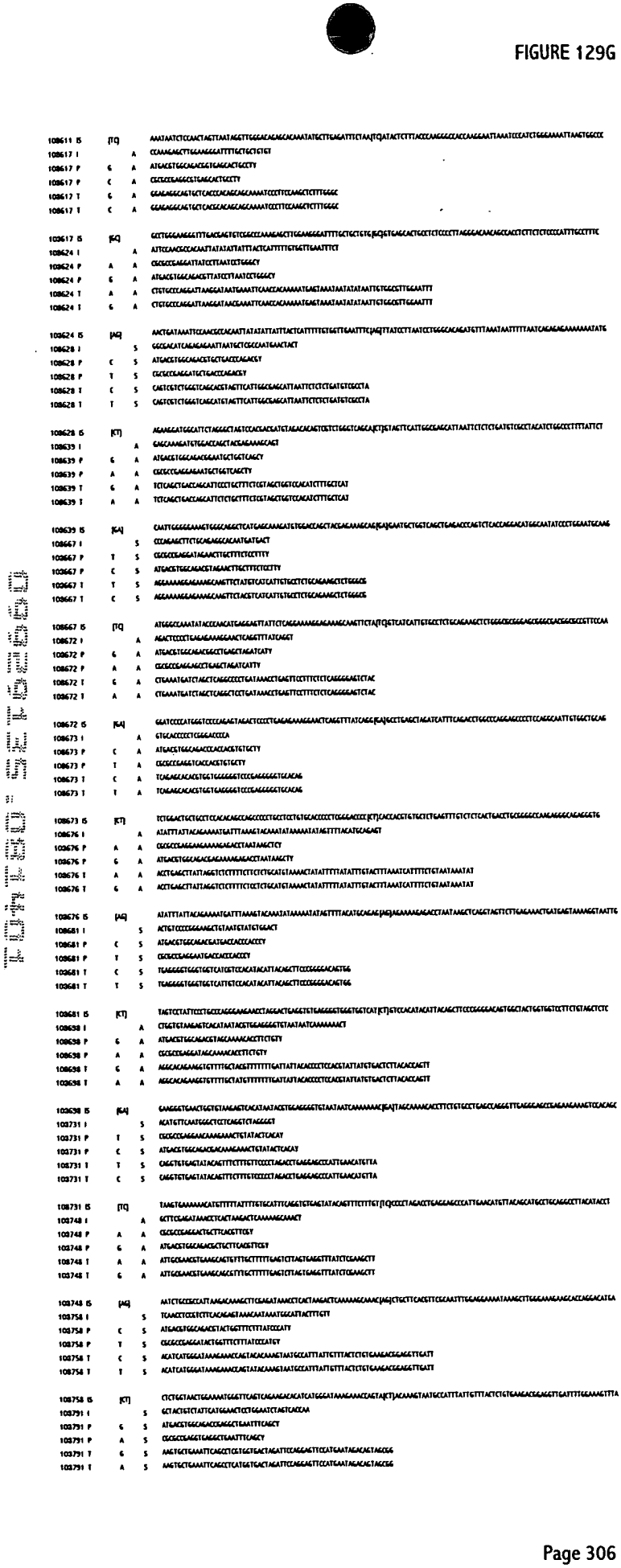


FIGURE 129G

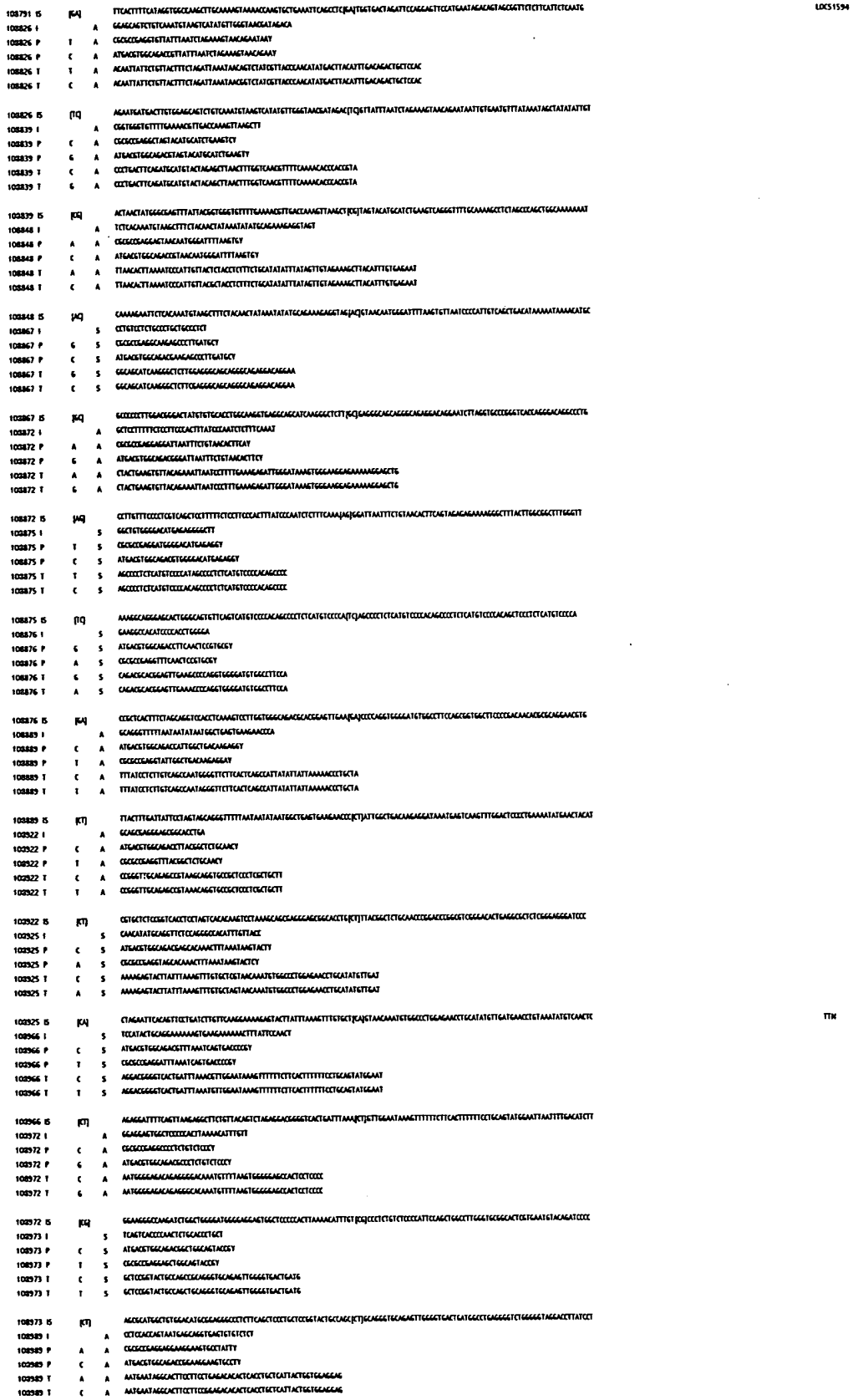
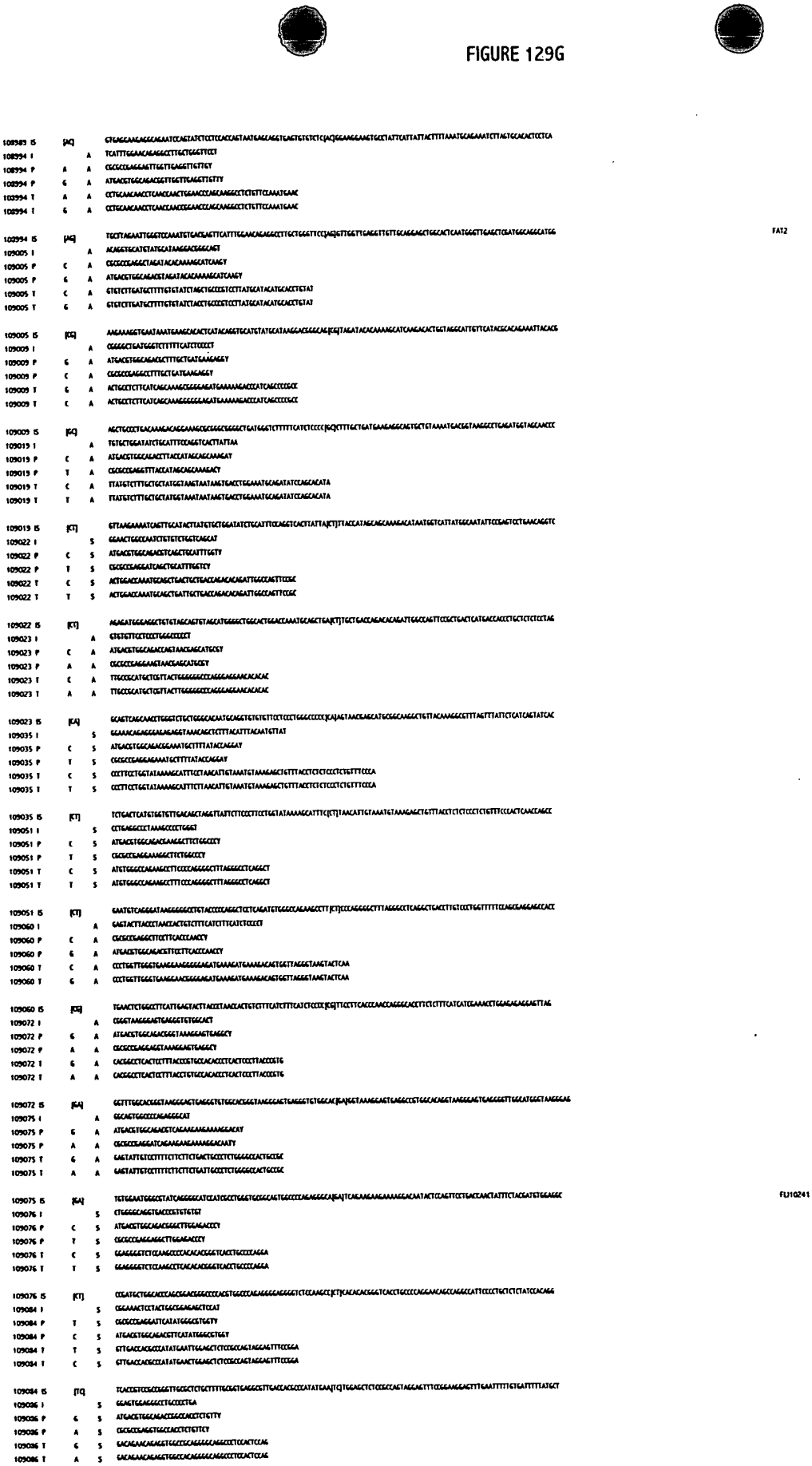
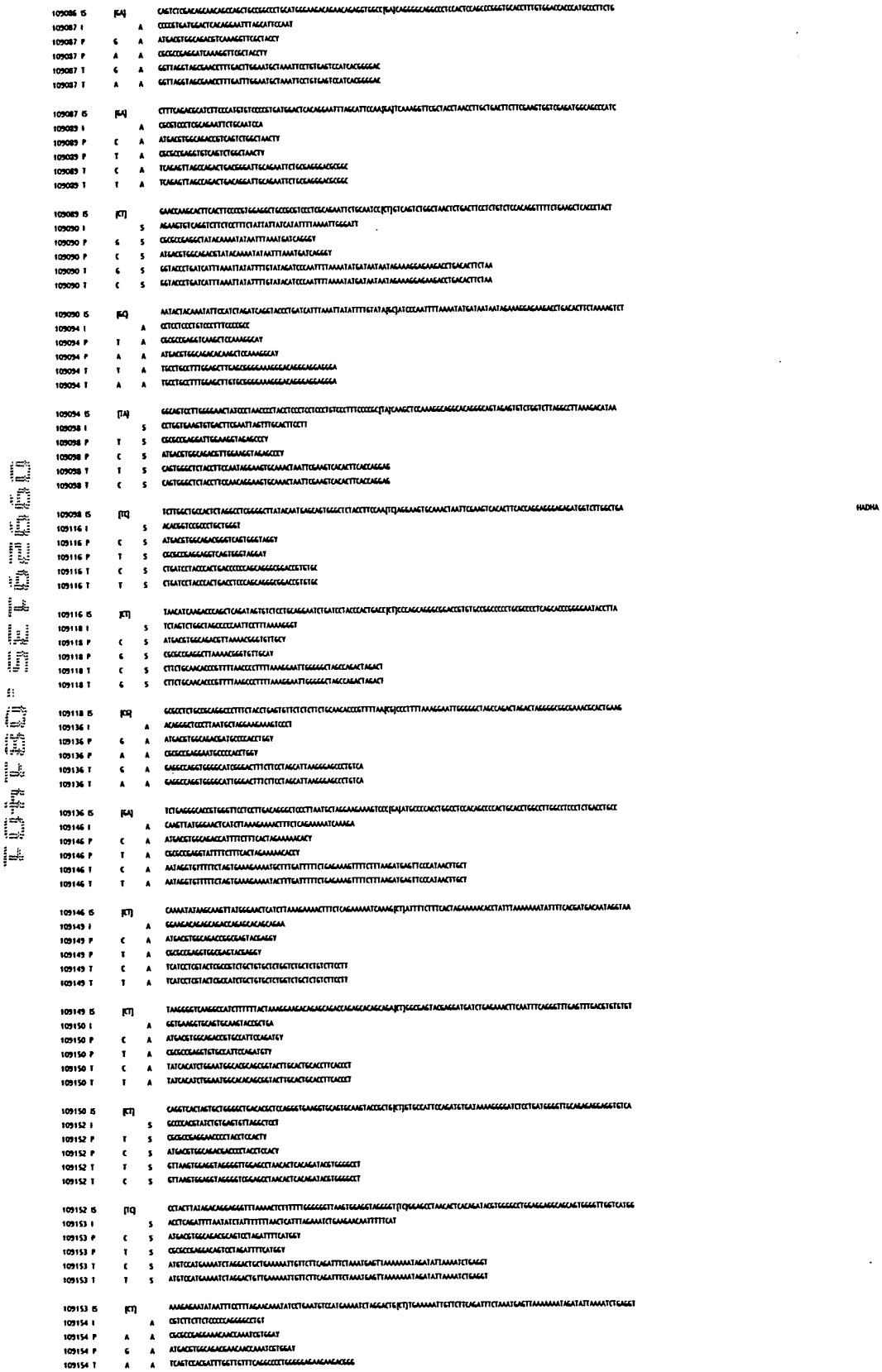
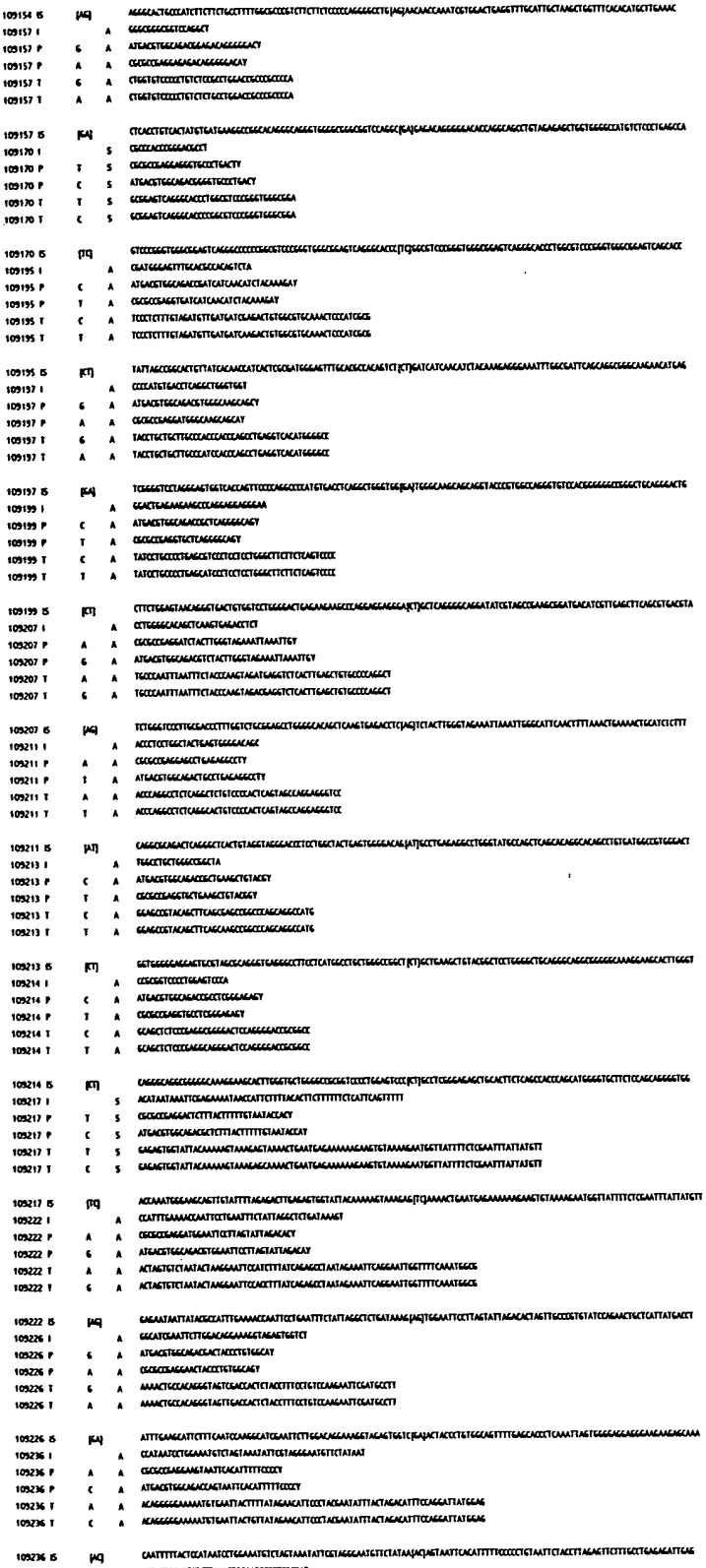


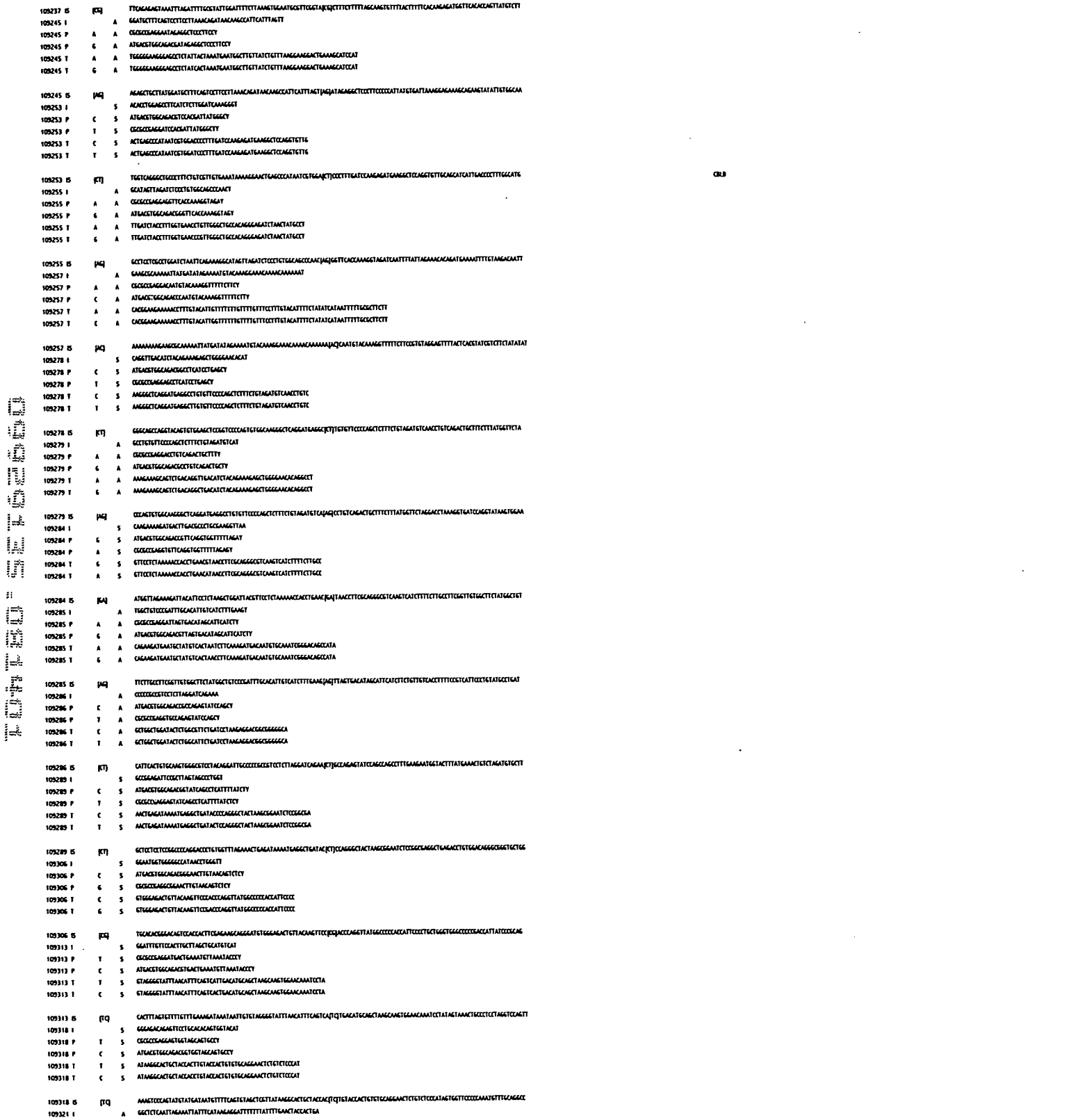
FIGURE 129G







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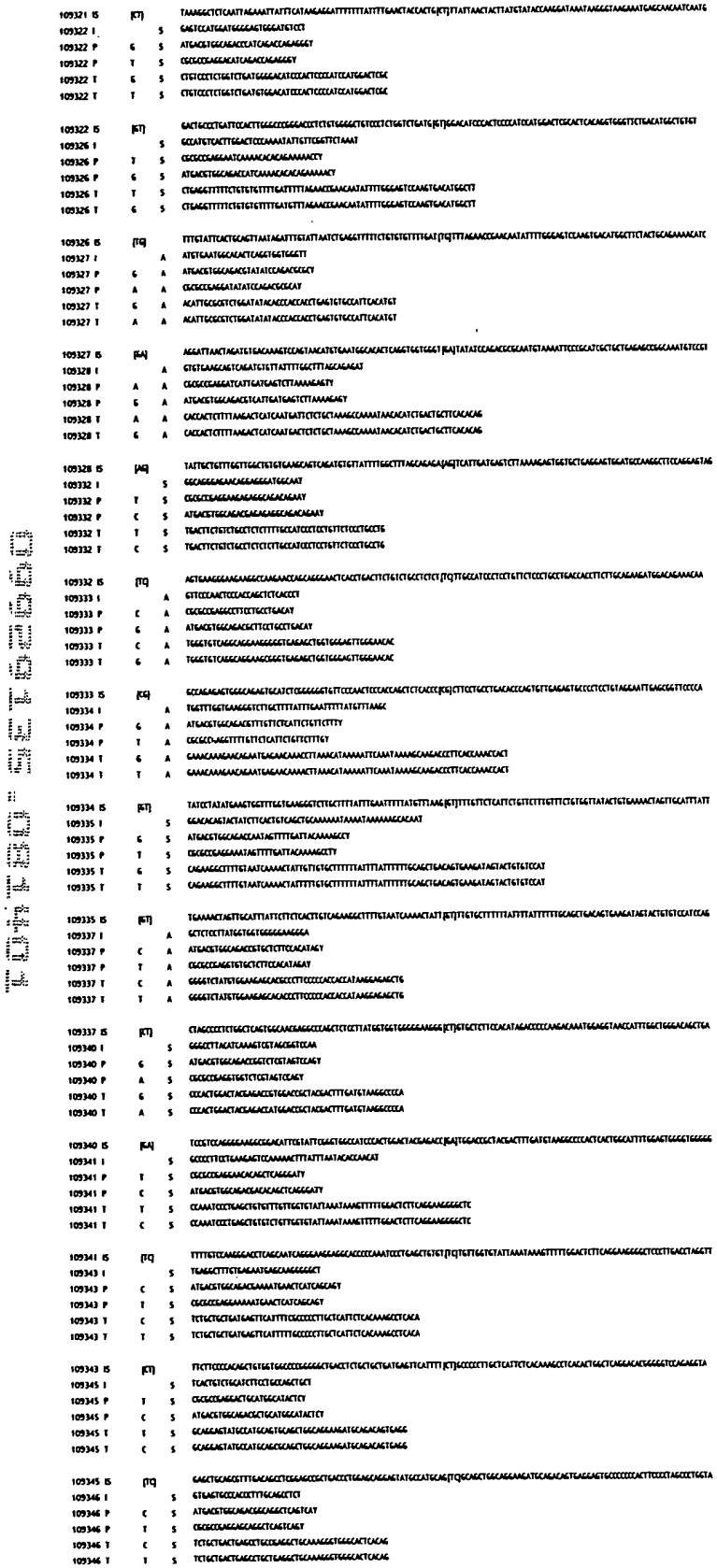


FIGURE 129G

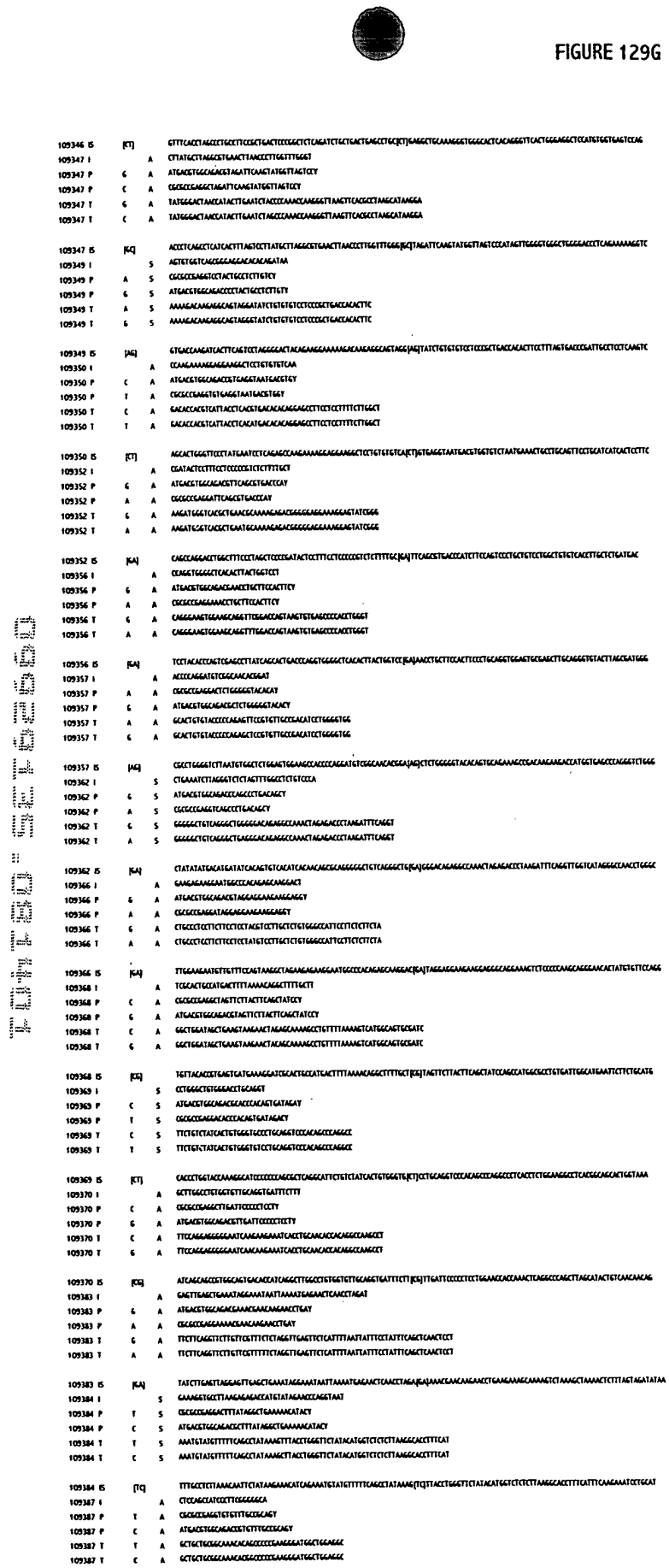
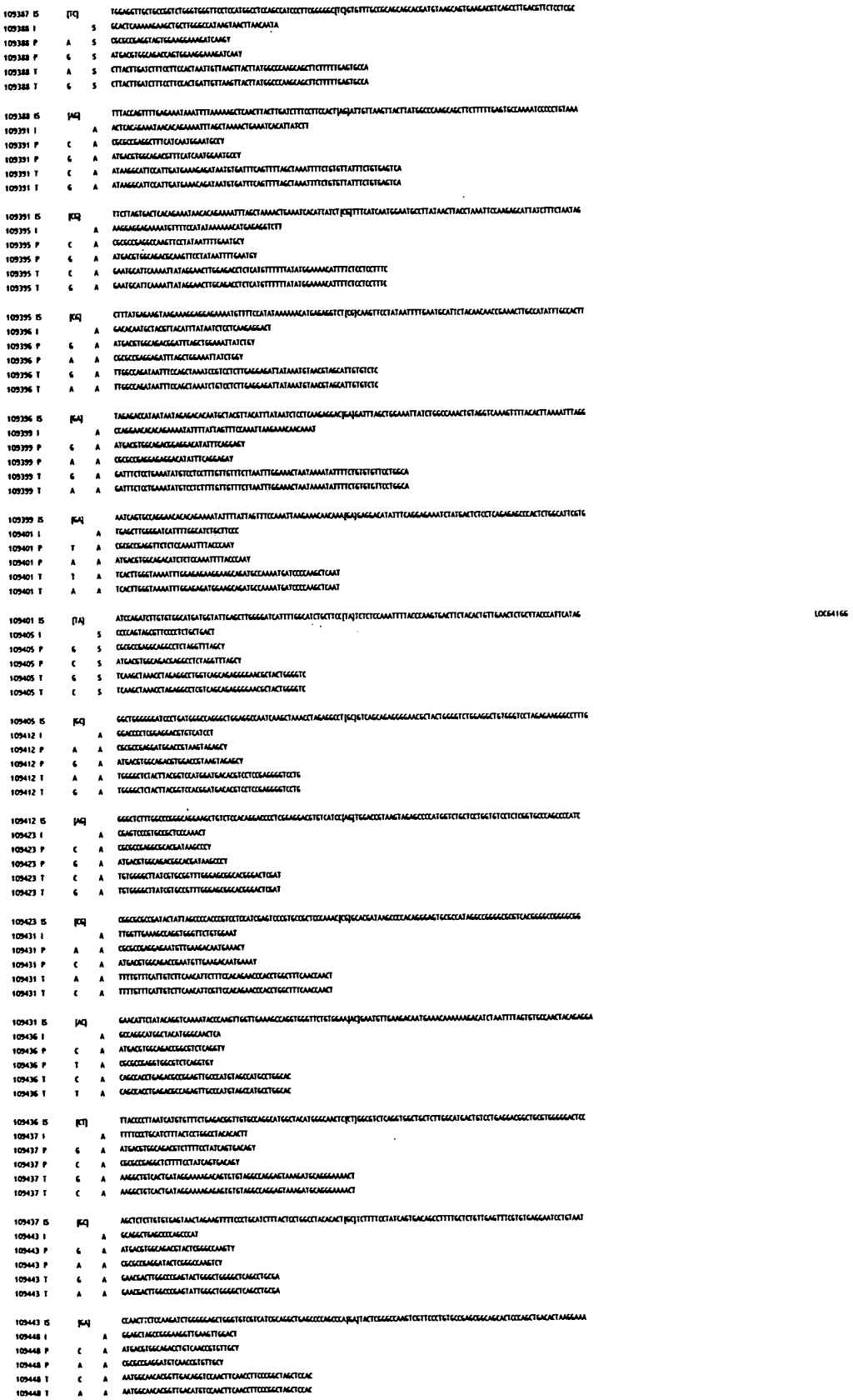
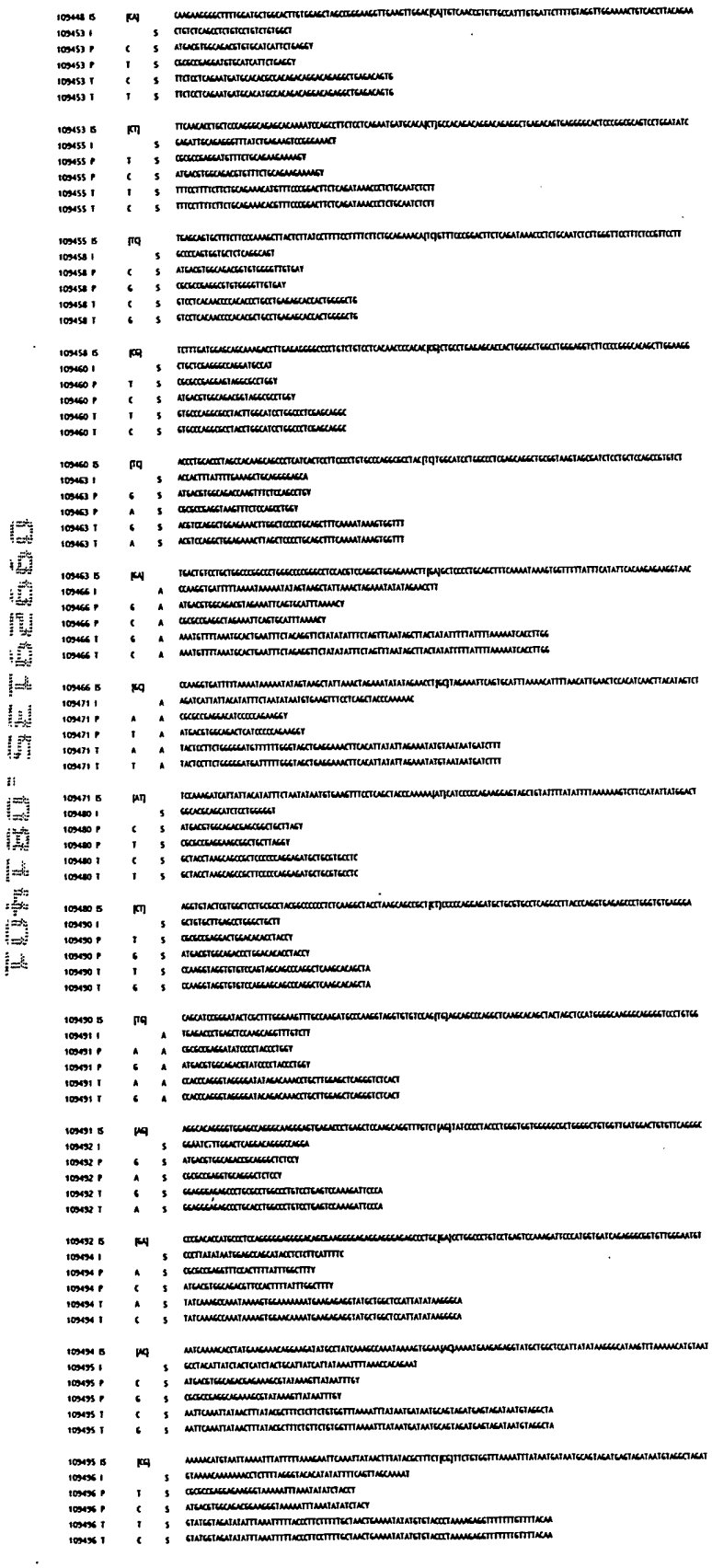
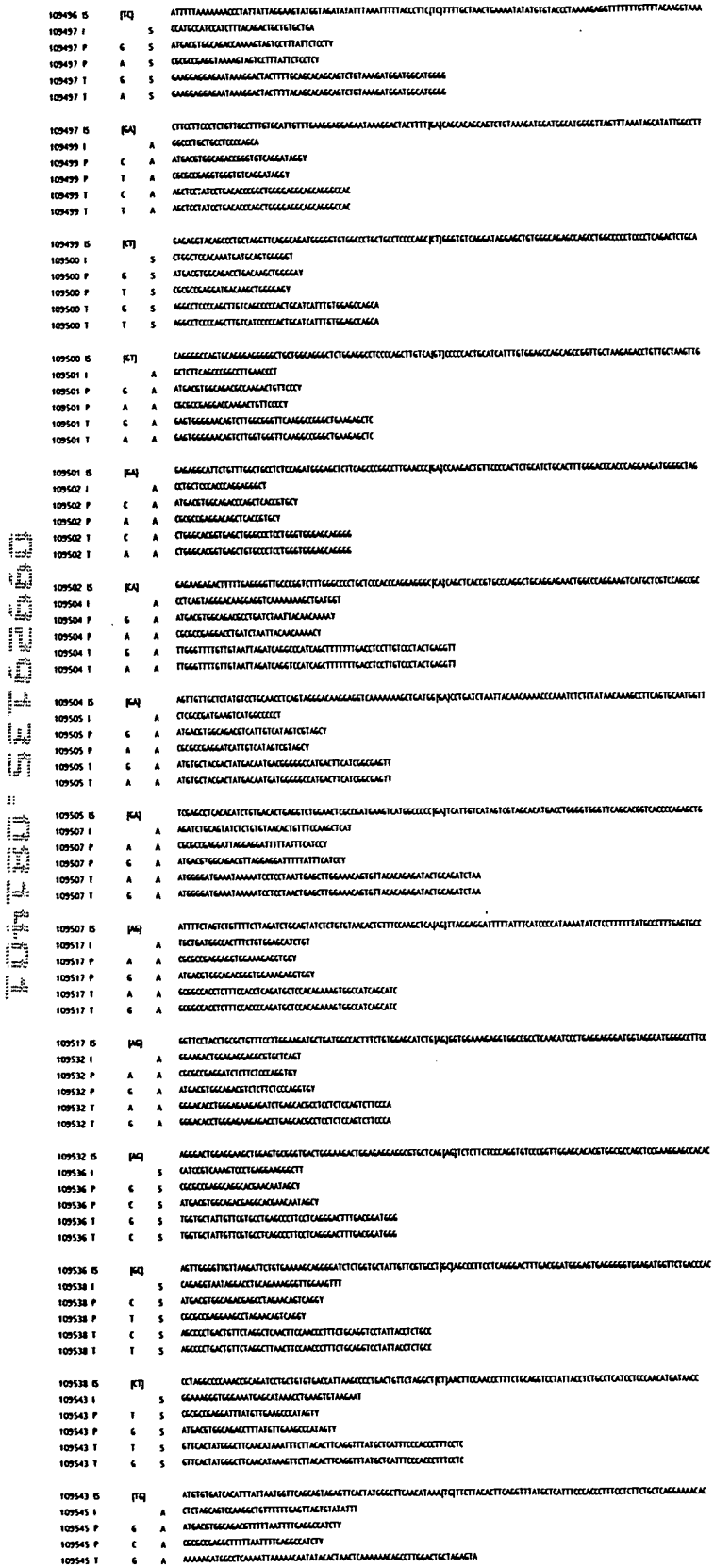
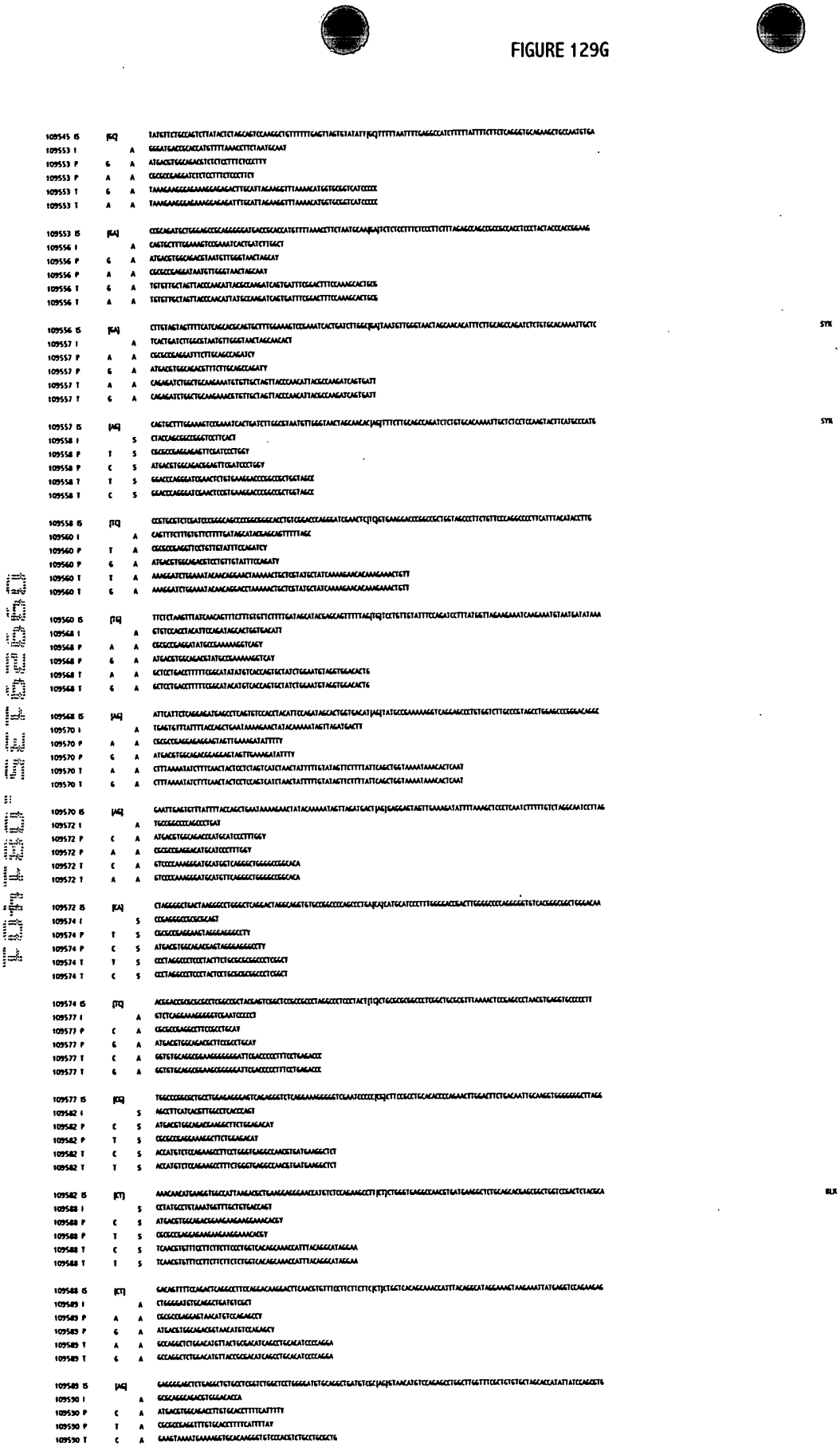


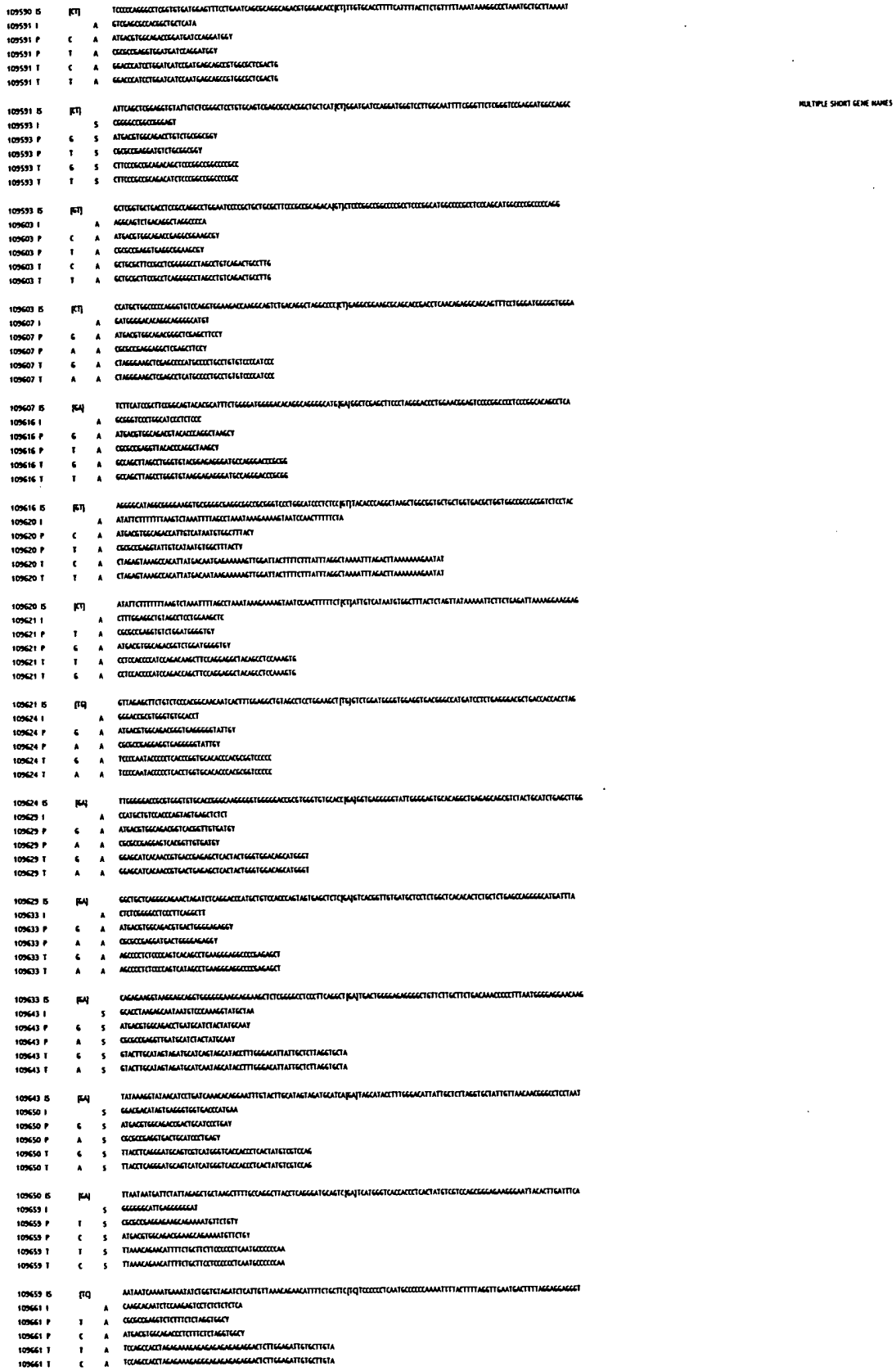
FIGURE 129G











Application Number: 09/782,897
Filing Date: February 14, 2001

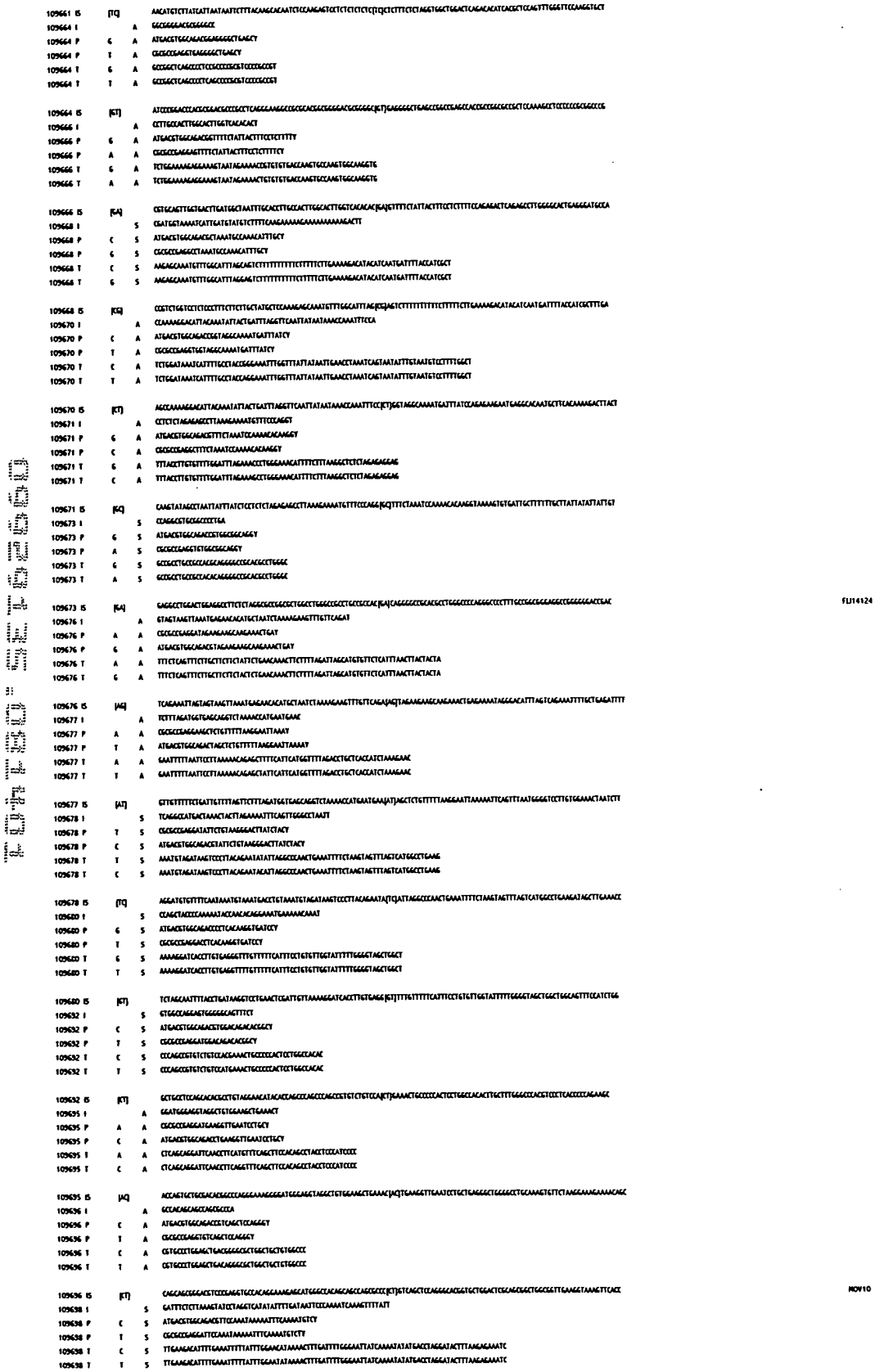


FIGURE 129G

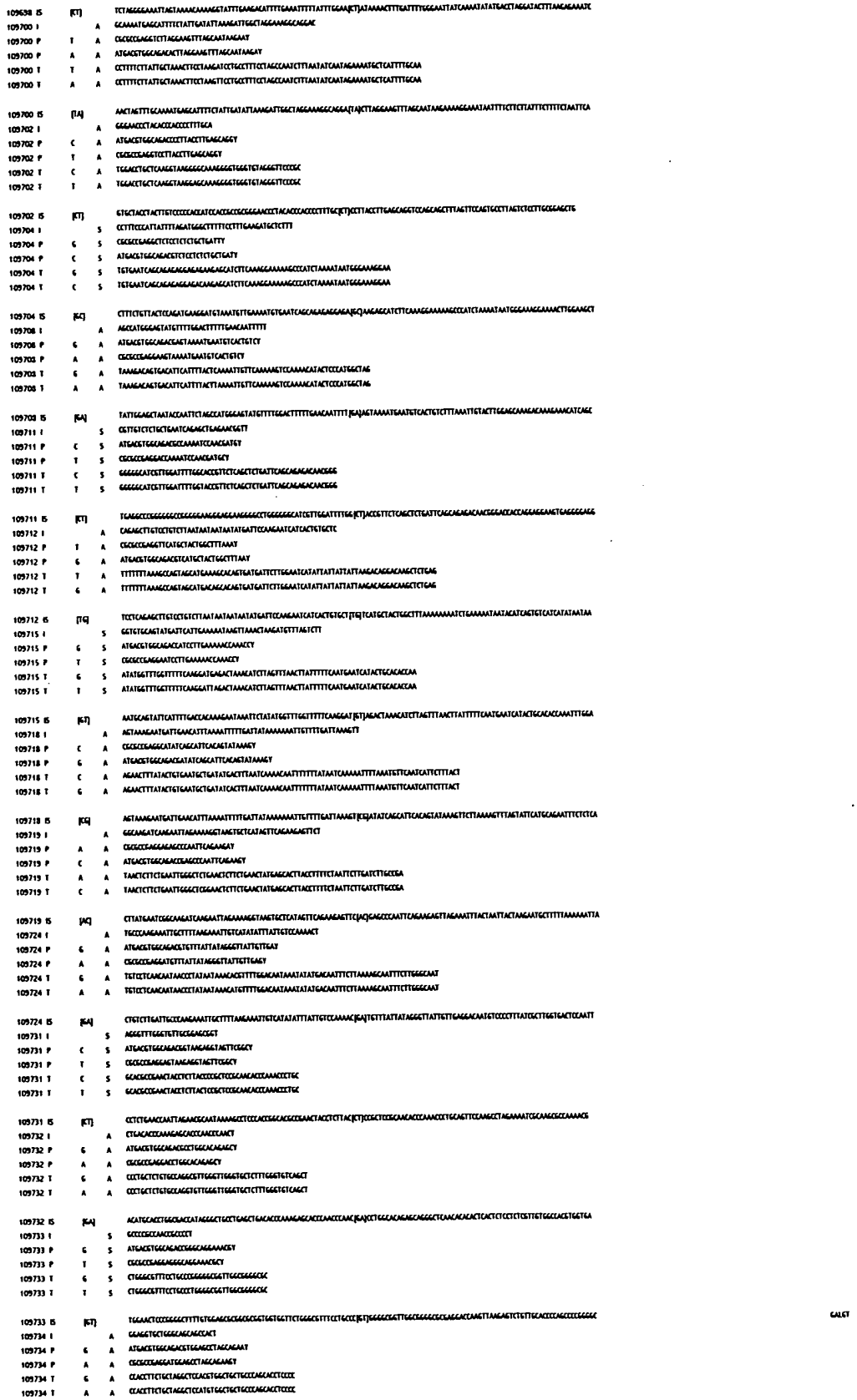


FIGURE 129G

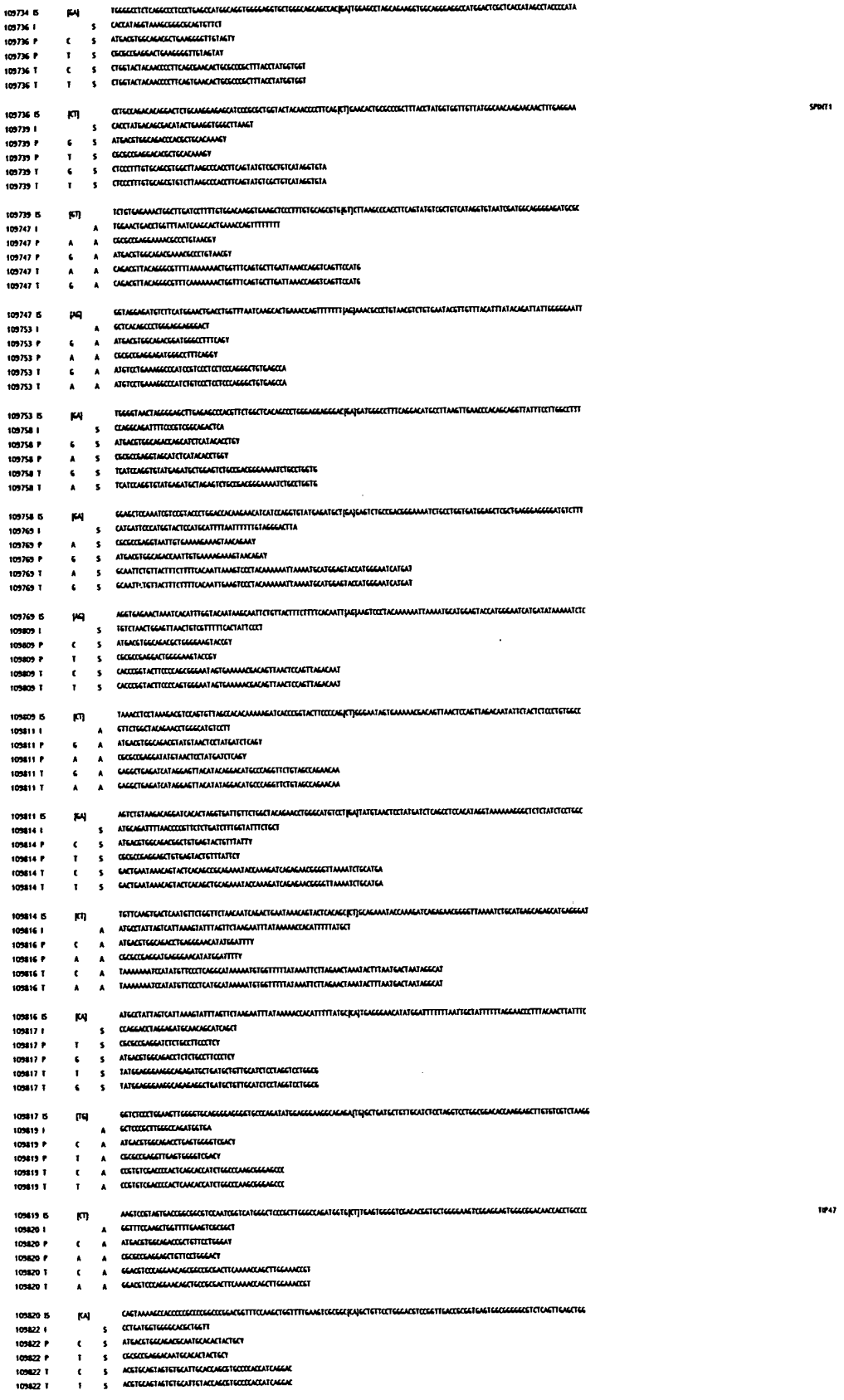
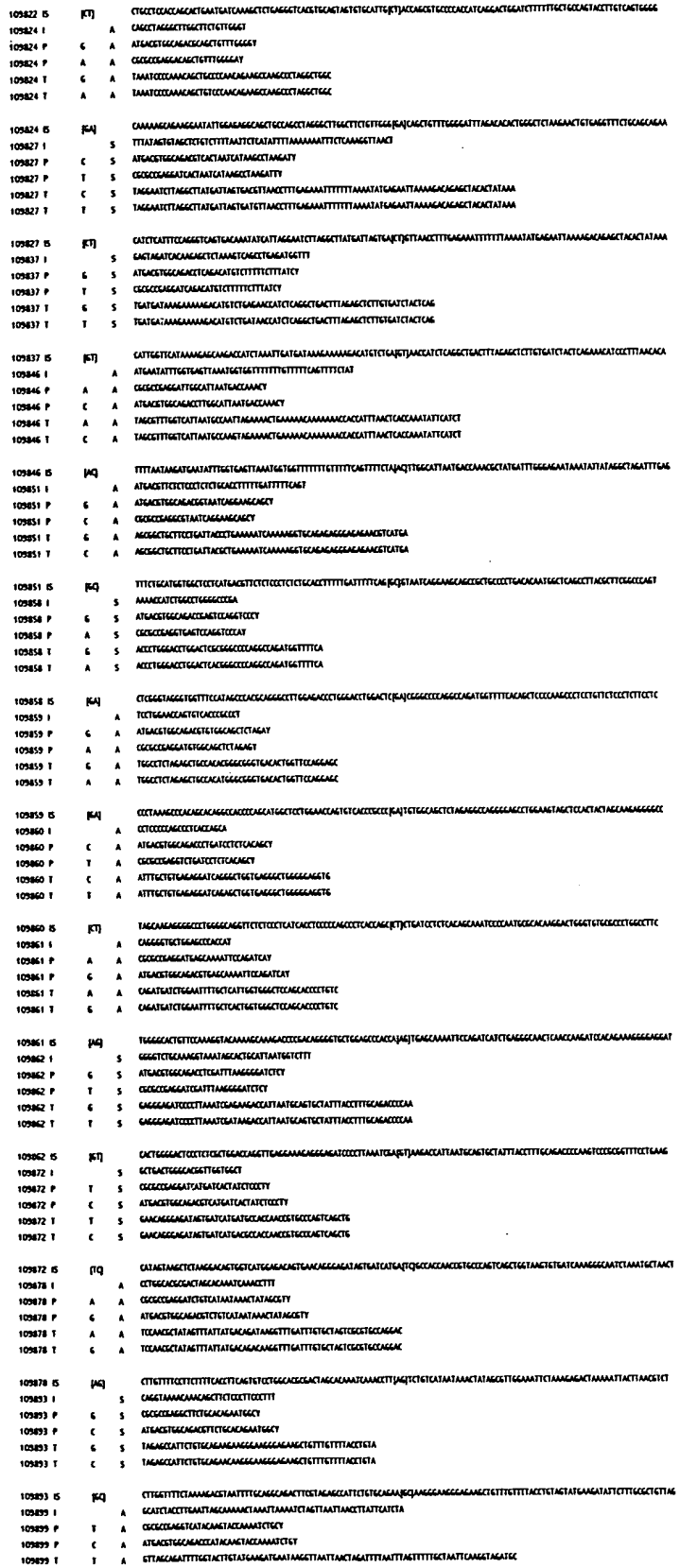
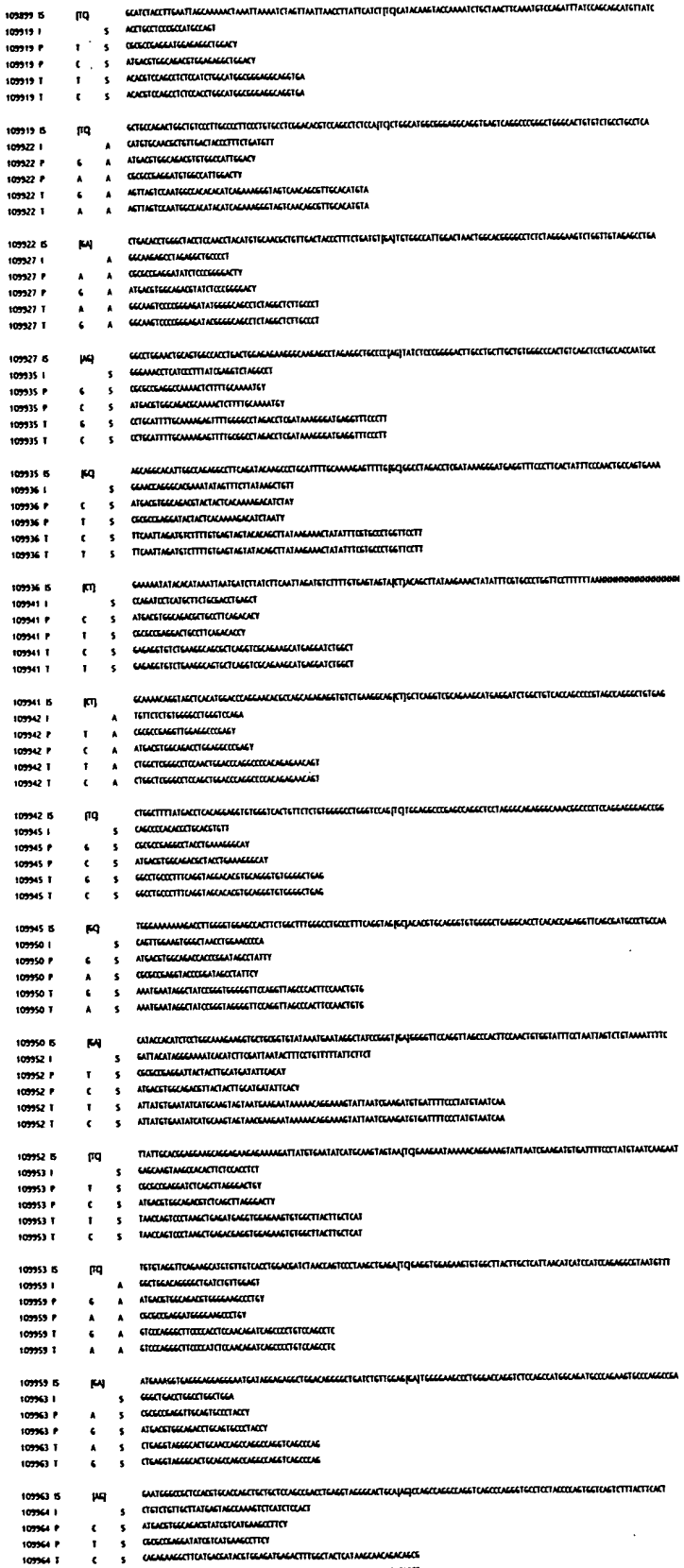


FIGURE 129G





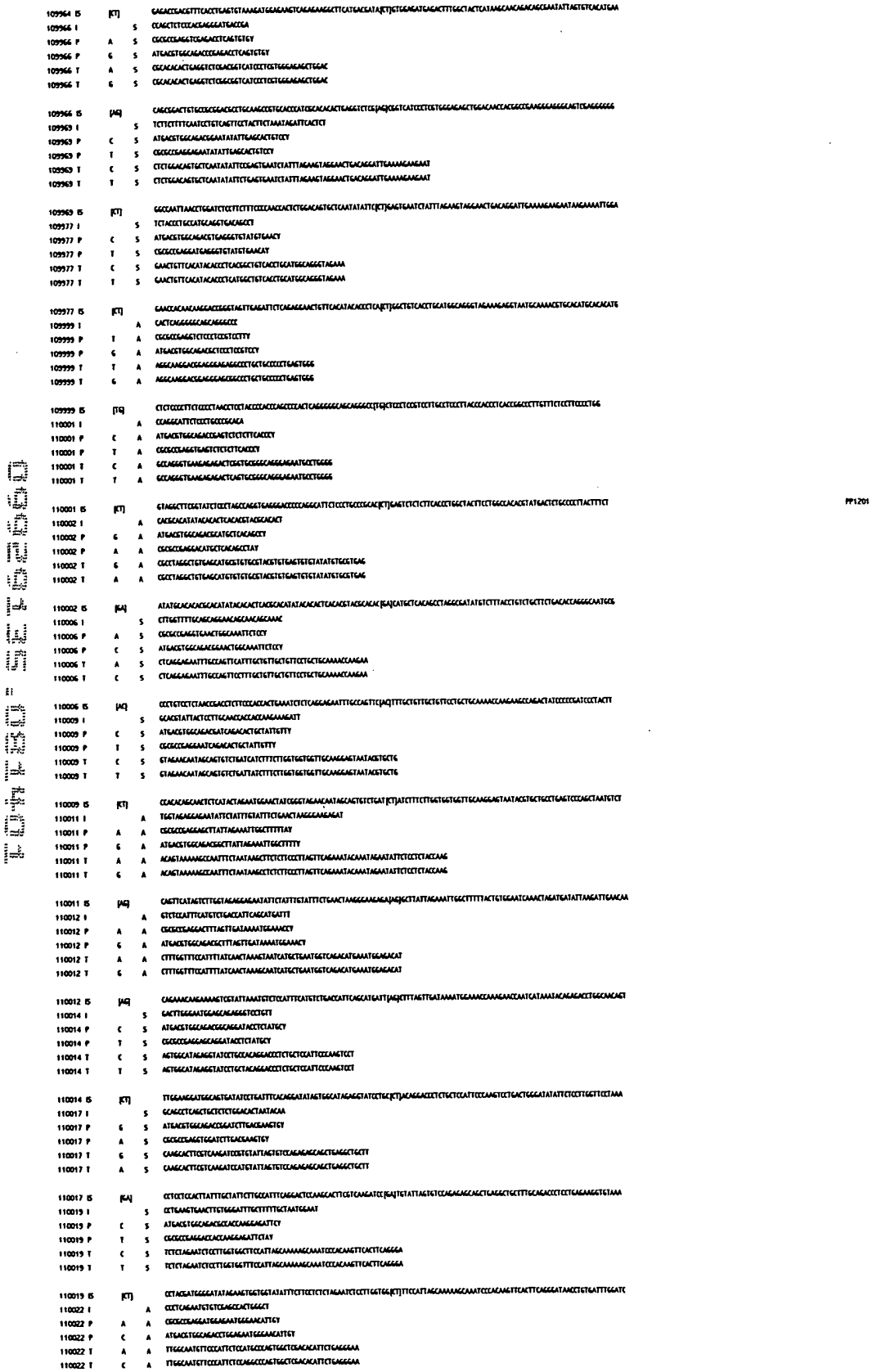


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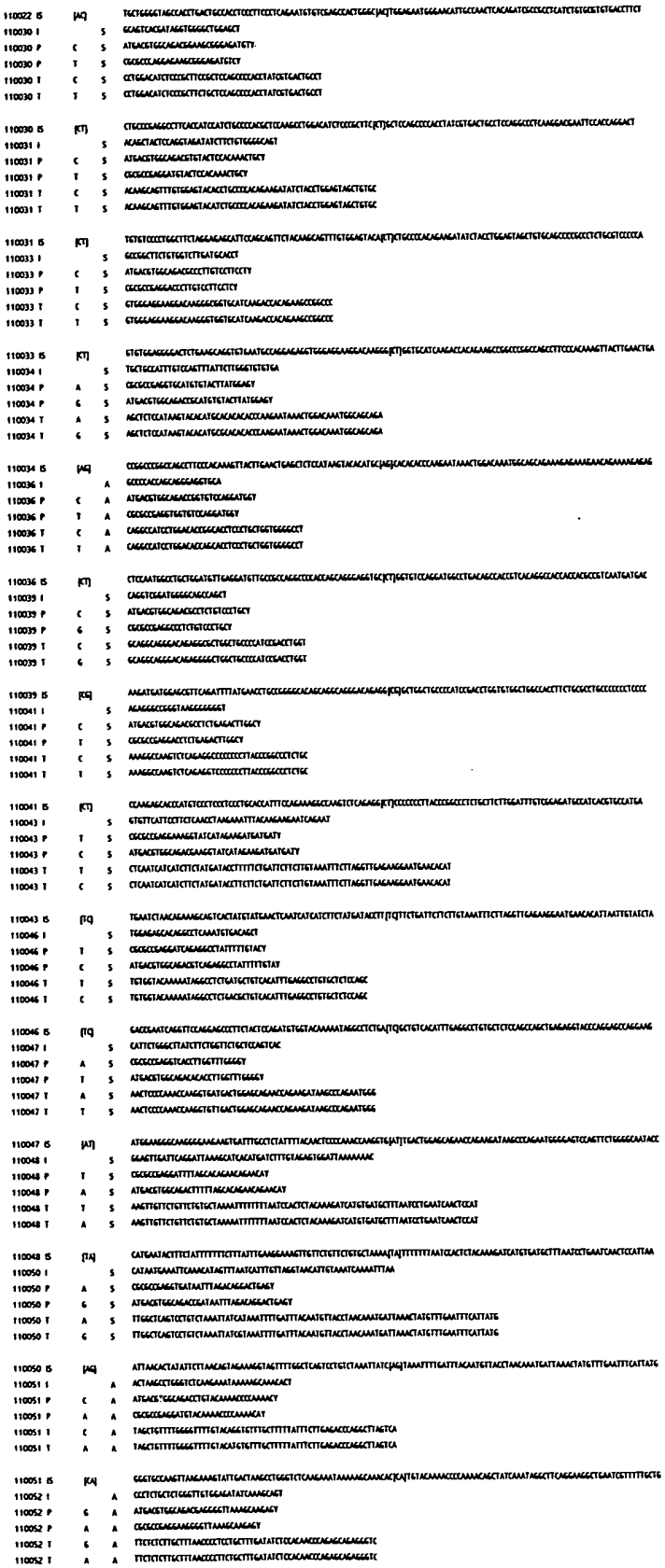


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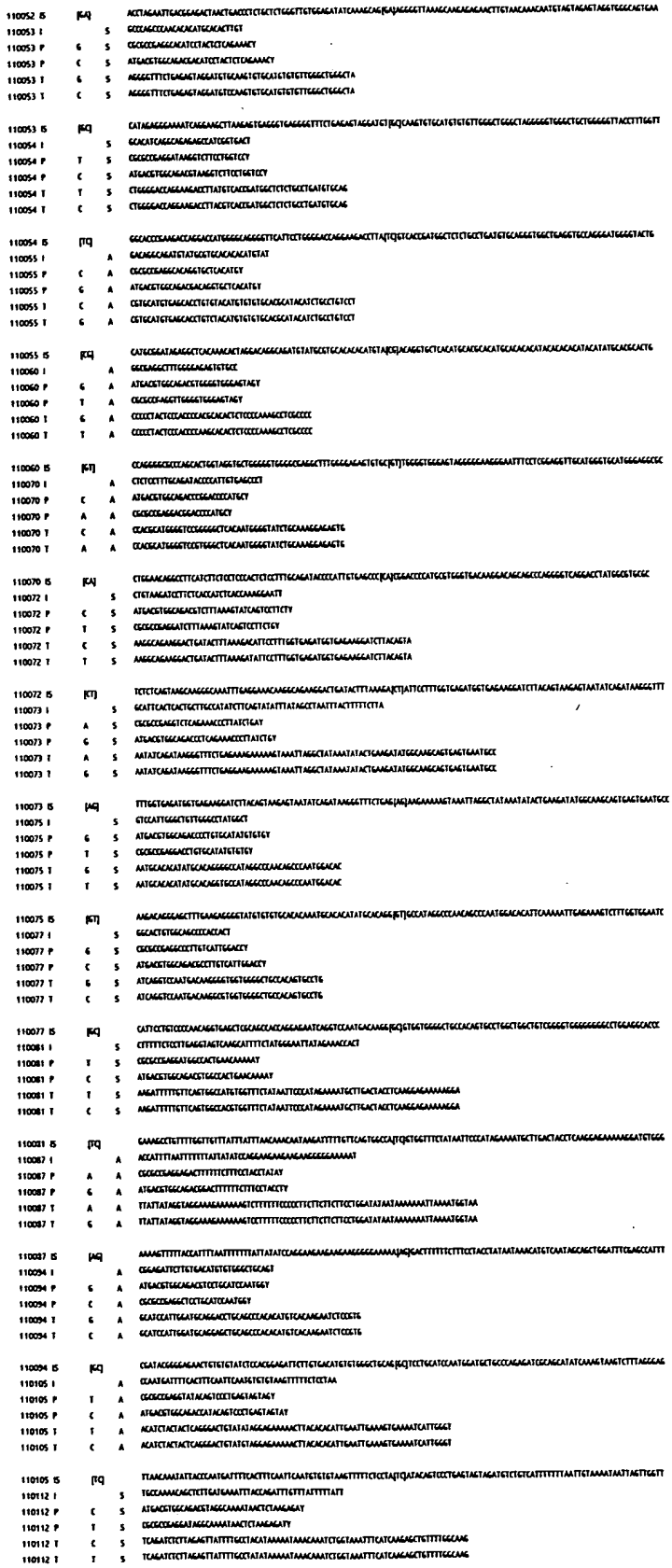
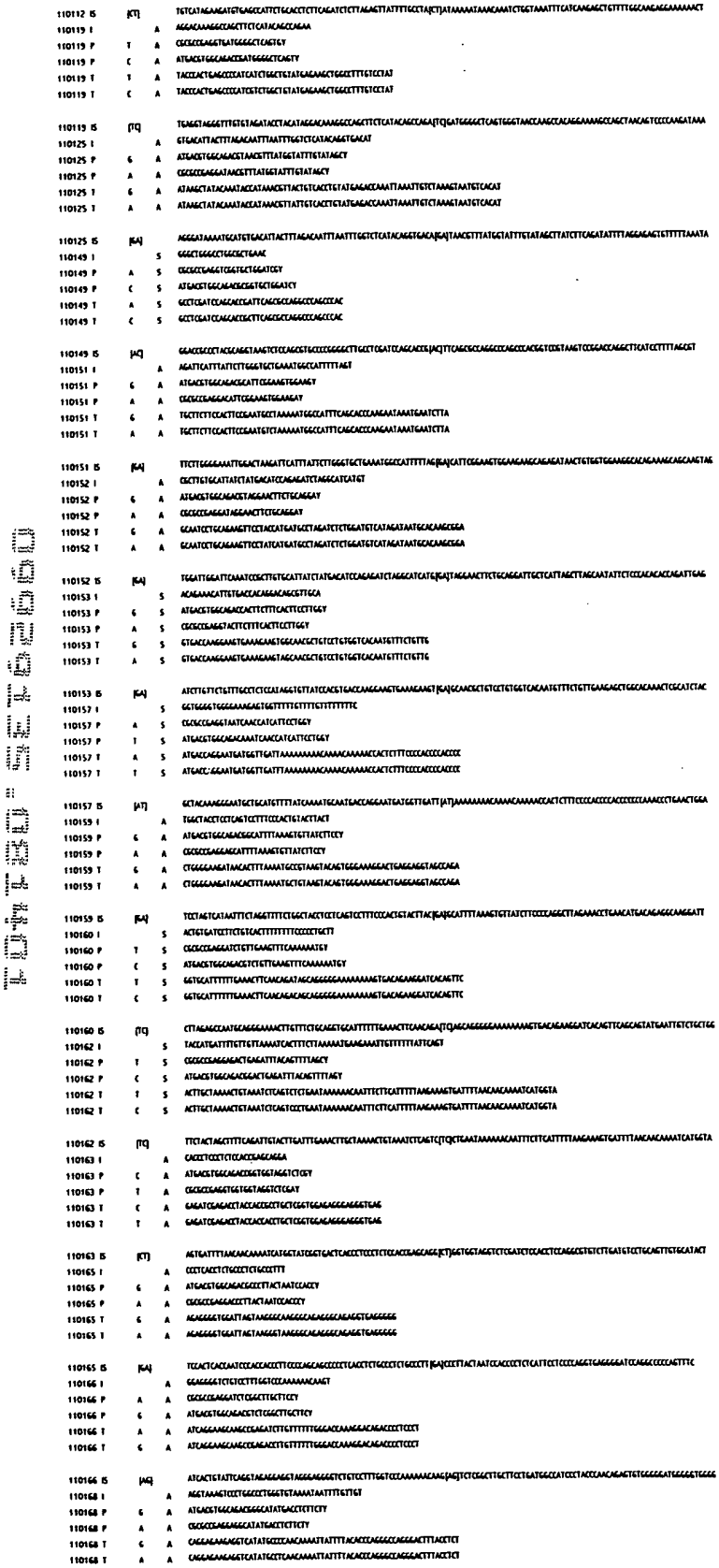
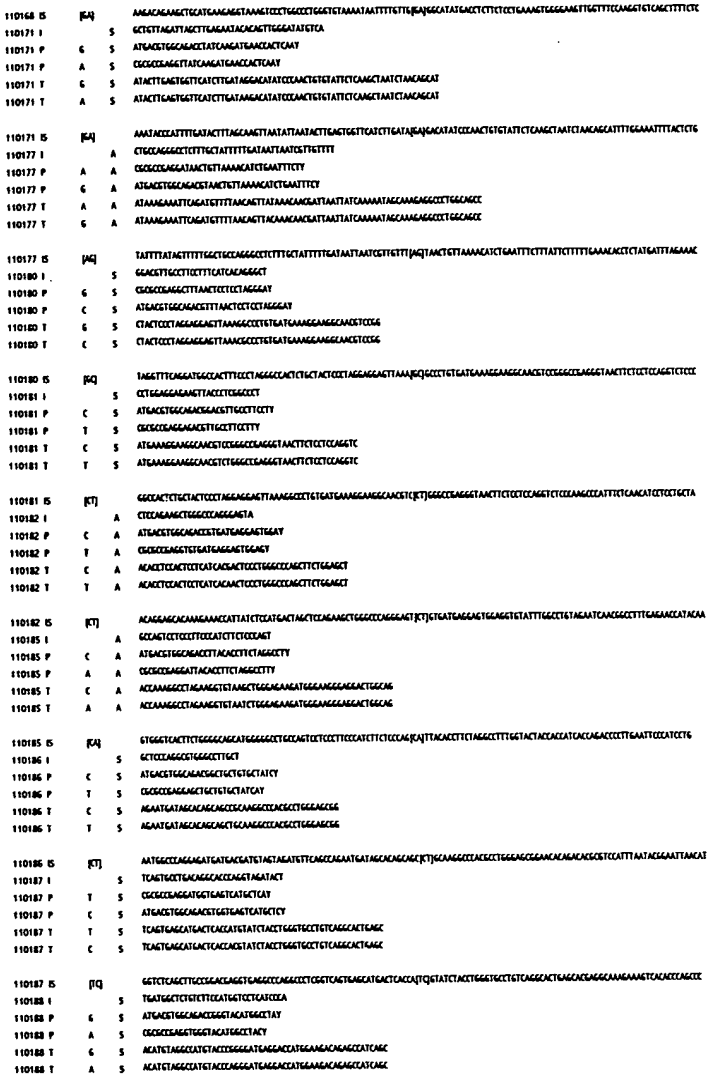
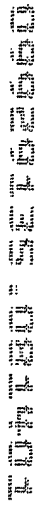


FIGURE 129G







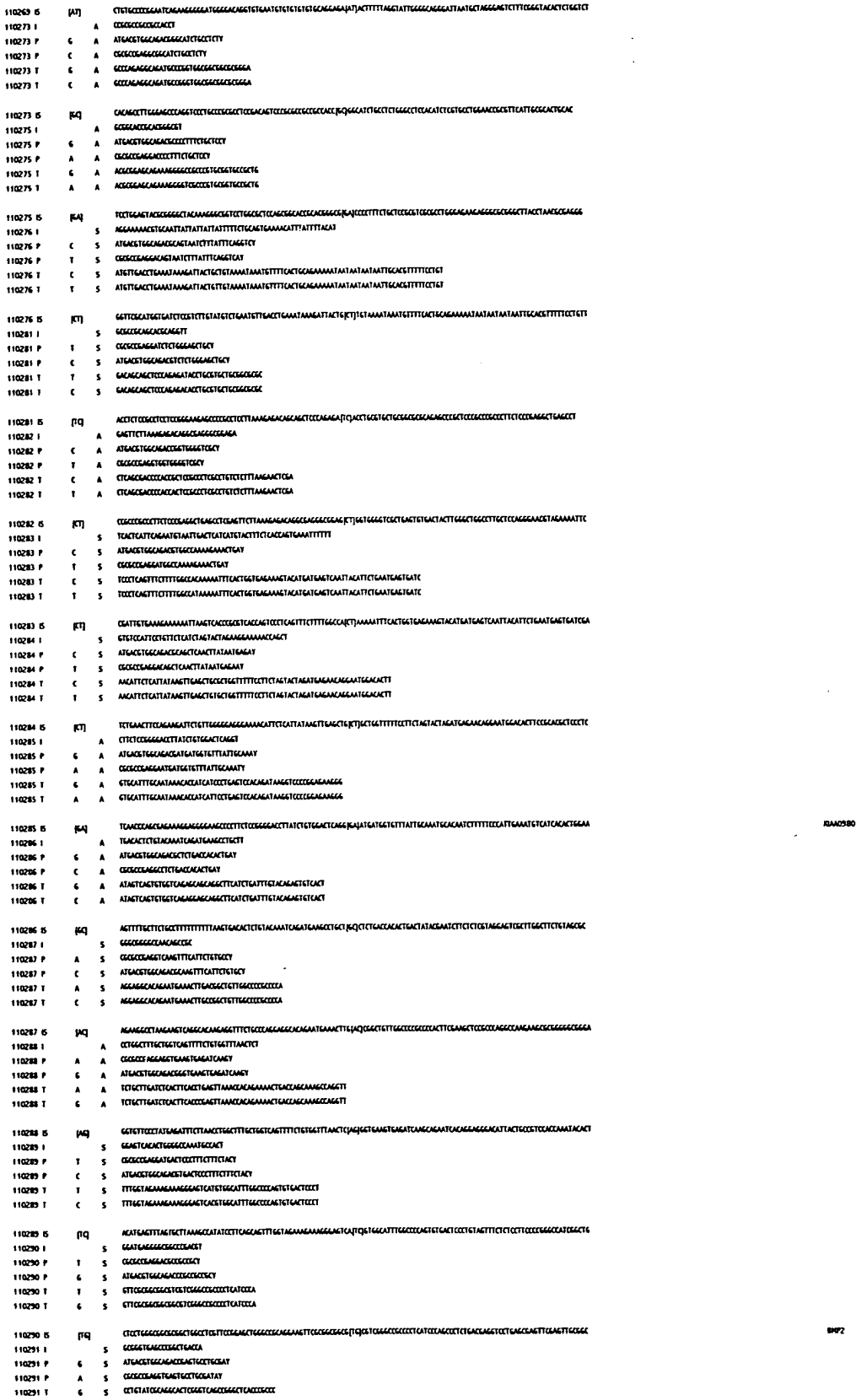
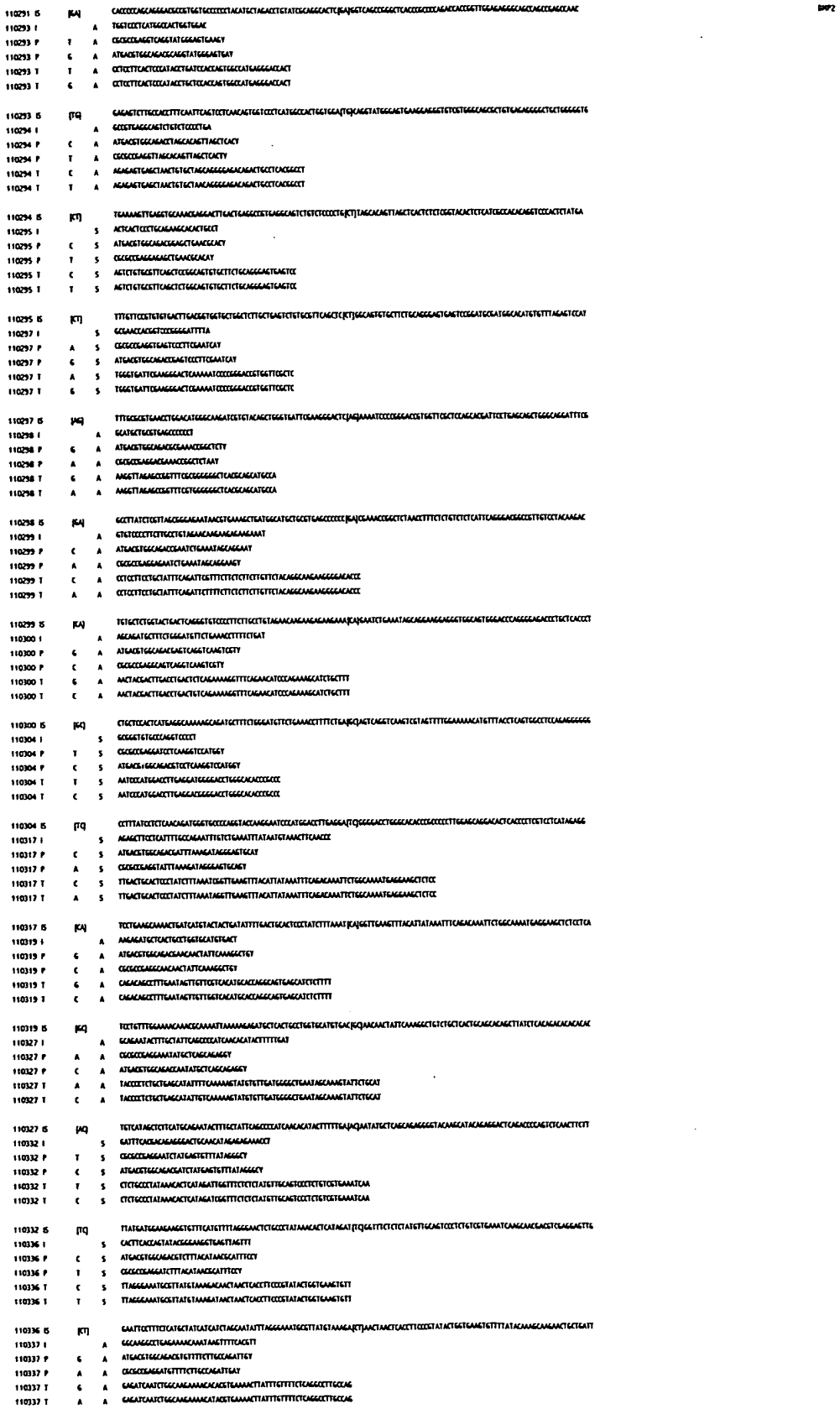
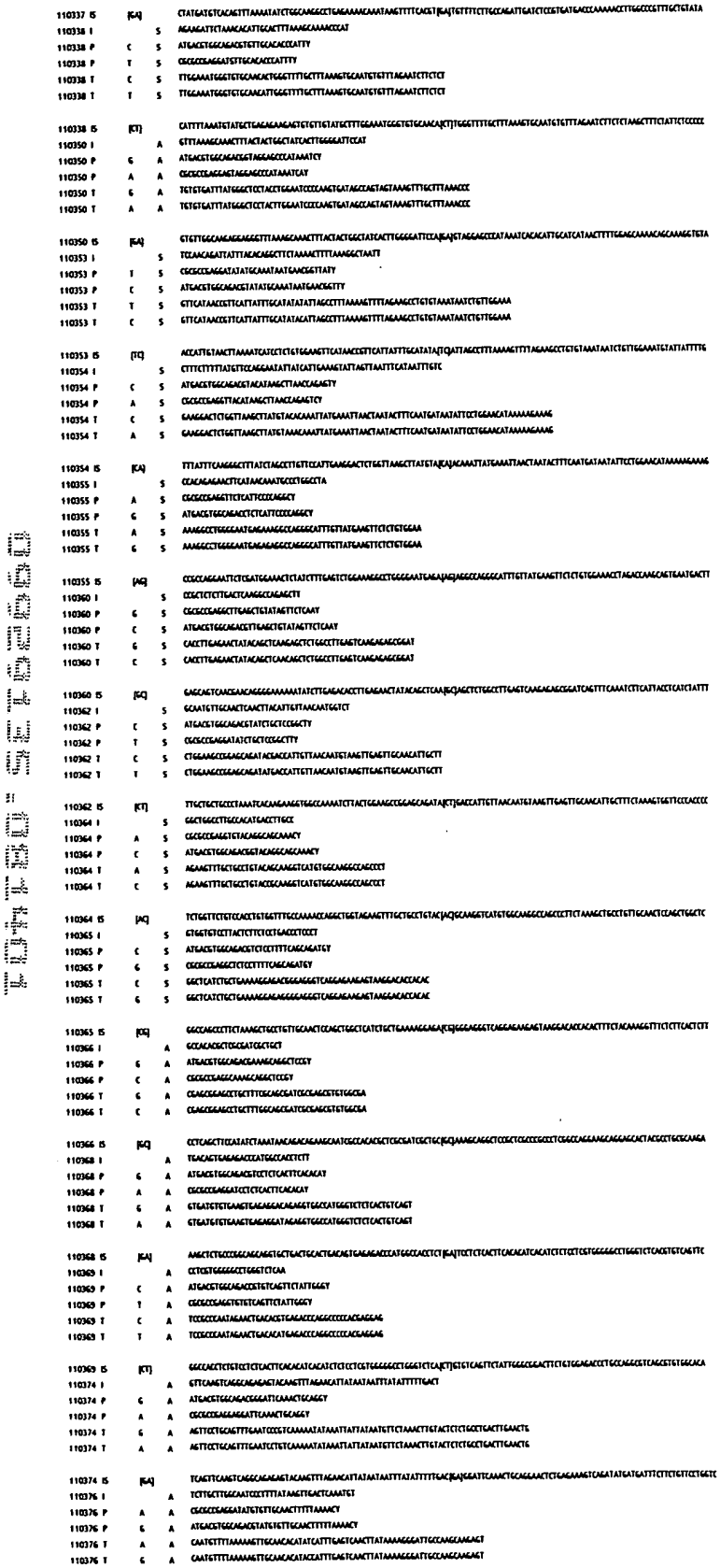
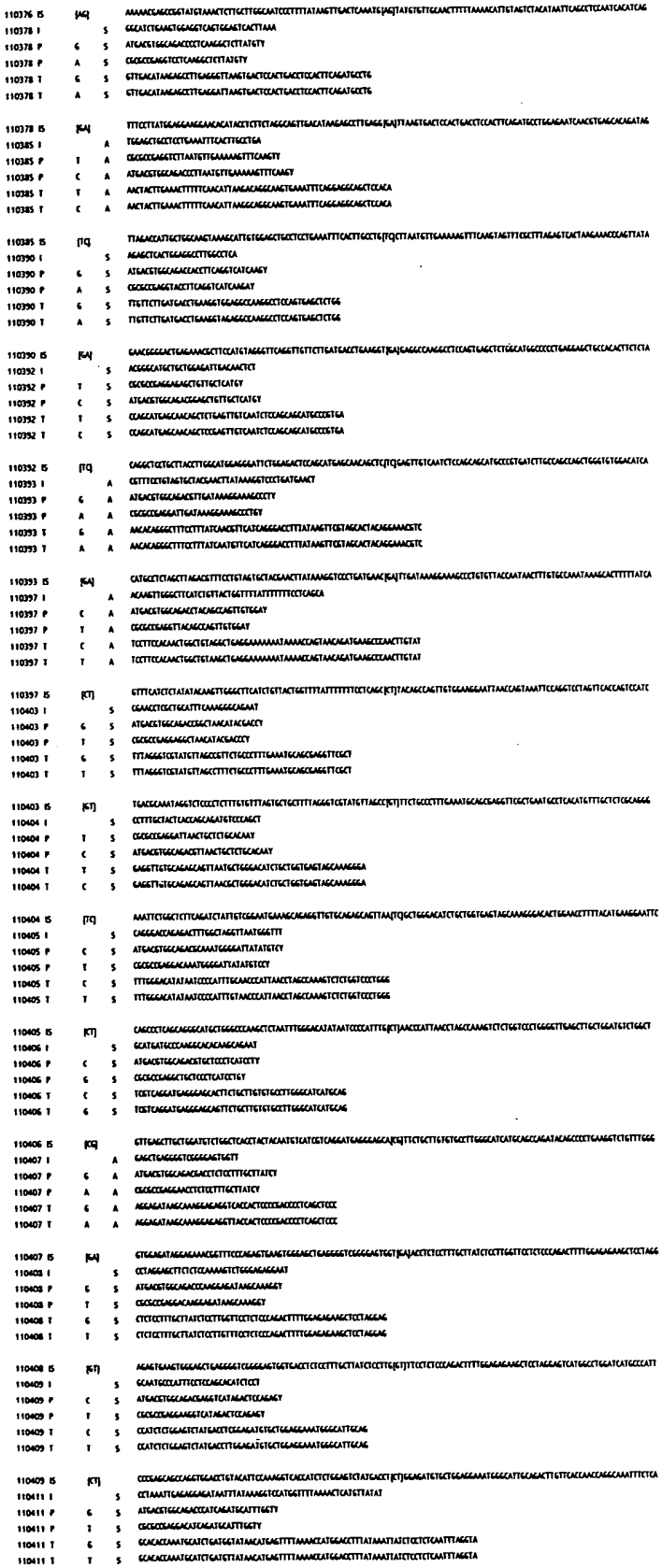


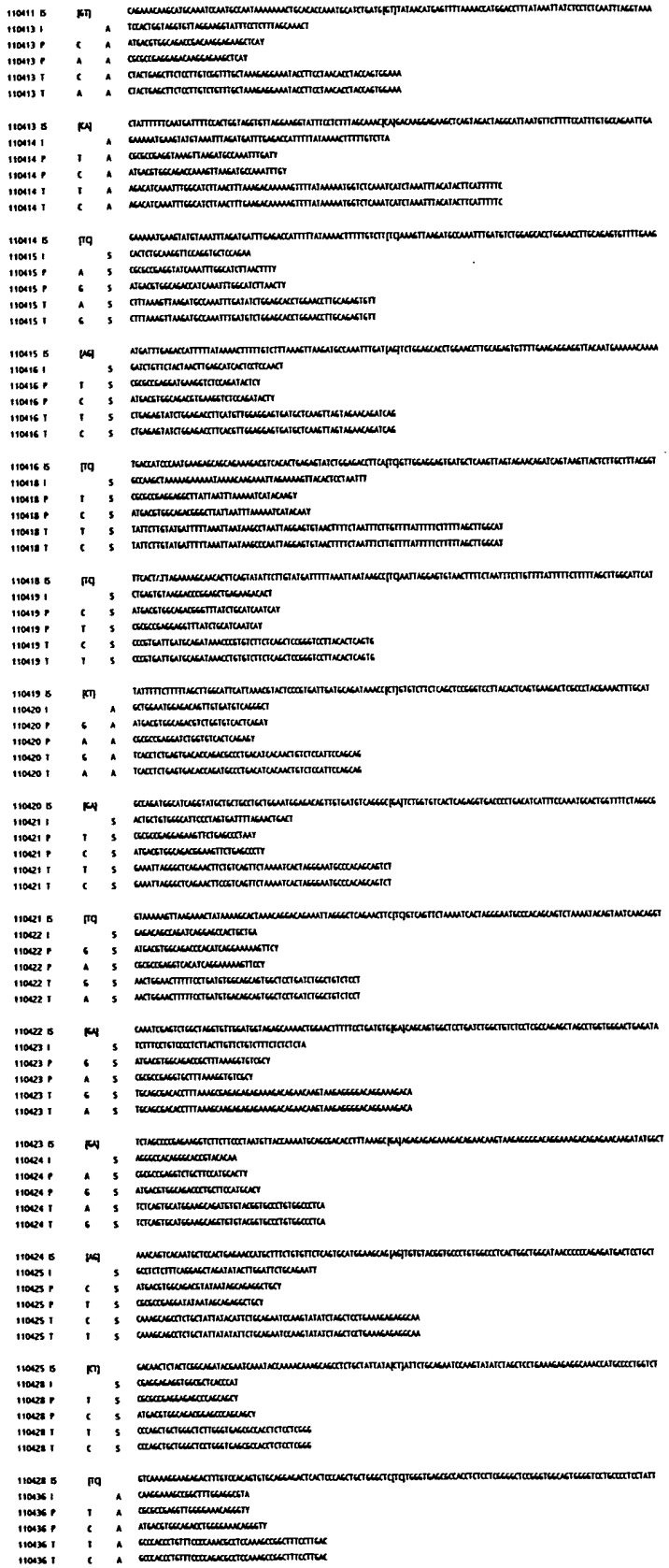
FIGURE 129G



Confidential and Proprietary Information of Celera Genomics











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110437 I         A            CCTGCACAGGCCTCGCATCCCCT
110437 P      G  A            ATGACGTGGCAGACGGGTCCCCACTGTGY
110437 P      A  A            CGCGCCGAGGAGGTCCCCACTGTGY
110437 T      G  A            AGGACACAGTGGGGAACCTGGGGATGCCAGGGCCTGTGCAGGCC
110437 T      A  A            AGGACACAGTGGGGAACCTGGGGATGCCAGGGCCTGTGCAGGCC

110437 IS      [CA]          CCATCGTTAGCACACCTGGGCCAGGTGTCCTGGCGTGGCCTGCACAGGCCTCGCATCCCC[CA]GGTCCCCACTGTGTCCTGCTGACACCCCTCCTCCCCACAGCACAGCTGTCAAAGTTCCAC
110439 I         S            GGGTGGTTATTTTTTCAACTTATCACTATGTTACAAAAAGTAAAAATCATTACTTAGAT
110439 P      C  S            ATGACGTGGCAGAGCTTCTTAACTGATGAGCTGTY
110439 P      G  S            CGCGCCGAGGCTTCTTAACTGATGAGCTGTY
110439 T      C  S            TCTAACAGCTCATCAGTTAAGAACTCTAAGTAATGATTTTTACTTTTTGTAAACATAGTGATAAGTTGAAAAAAATAACCACCC
110439 T      G  S            TCTAACAGCTCATCAGTTAAGAAGTCTAAGTAATGATTTTTACTTTTTGTAAACATAGTGATAAGTTGAAAAAAATAACCACCC

110439 IS      [CG]          TGGTAAAGGCAAGAAACATGAAGTTGCTCCTTCTGACTCTAACAGCTCATCAGTTAAGAAA[CG]TCTAAGTAATGATTTTTACTTTTTGTAAACATAGTGATAAGTTGAAAAAAATAACCACCC
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110440 P      T  S            CGCGCCCAGGATGTGCTACTGATTGTCTAACATAAT
110440 P      G  S            ATGACGTGGCAGACCTGTGTACTGATTGTCTAACATY
110440 T      T  S            CAGTTTATGTTAGACAATCAGTACACATGCTGGTGTGTTTTCCAATGGCCAGTGAT
110440 T      G  S            CAGTTTATGTTAGACAATCAGTACACAGGCTGGTGTGTTTTCCAATGGCCAGTGAT

110440 IS      [TC]          TGATGCACAGGCGTCTTGTGGCAAGCCCAGCTTCAGTTTATGTTAGACAATCAGTACACA[TC]GCTGGTGTGTTTTCCAATGGCCAGTGATAAGAAATTAAATAAGTATTTGTGAGATTTGCT
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110442 P      A  A            CGCGCCGAGGAACAAAAGAAAAGGTTTACAAATCY
110442 T      G  A            GATTGATTTGTAAACCTTTTCTTTTGTCTCTAGGTTTTTGACCAATATCTCAATTTTATTACTTTGGAAGATGATATGTTTGTA
110442 T      A  A            GATTGATTTGTAAACCTTTTCTTTTGTTTCTAGGTTTTTGACCAATATCTCAATTTTATTACTTTGGAAGATGATATGTTTGTA

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110448 P      G  S            ATGACGTGGCAGACCTGAAGAGTGCCCTAGTY
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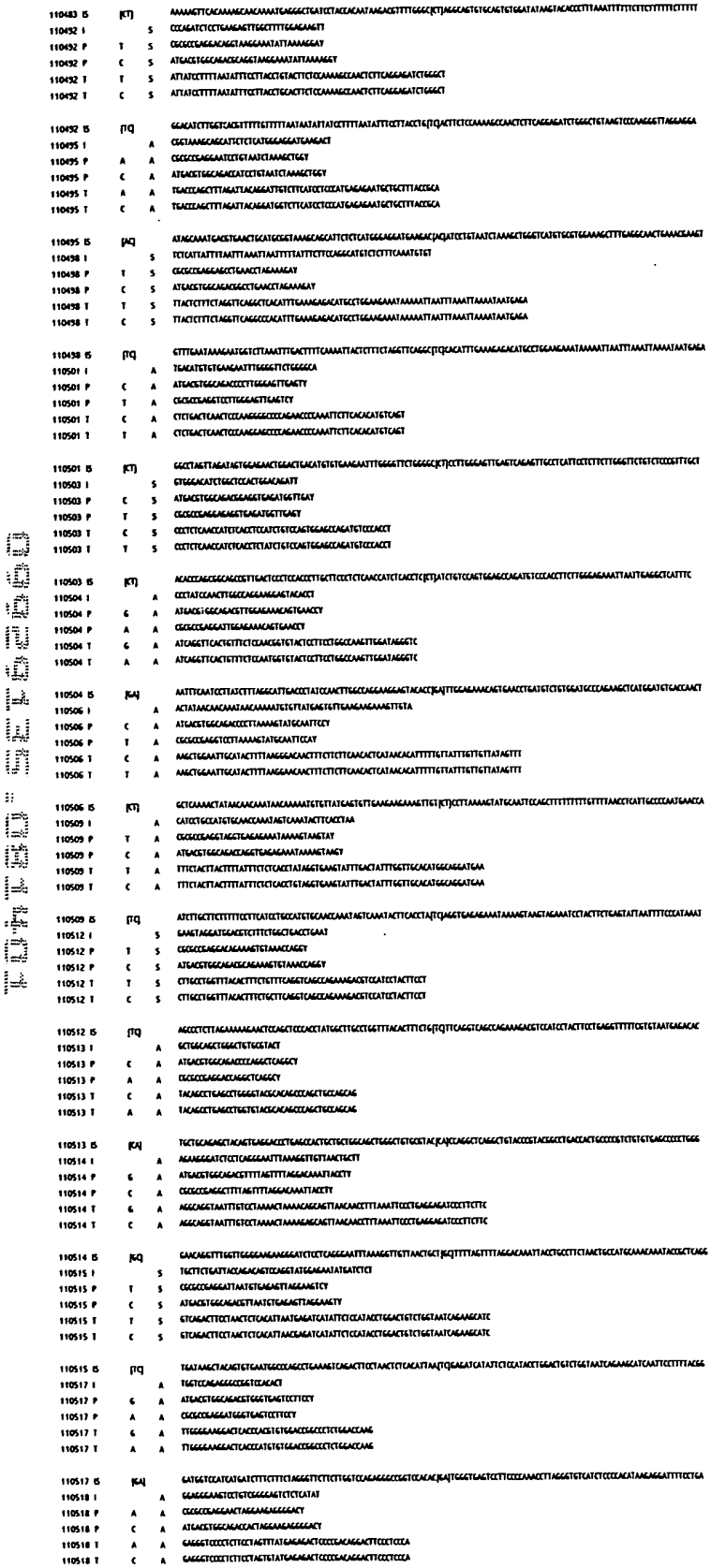
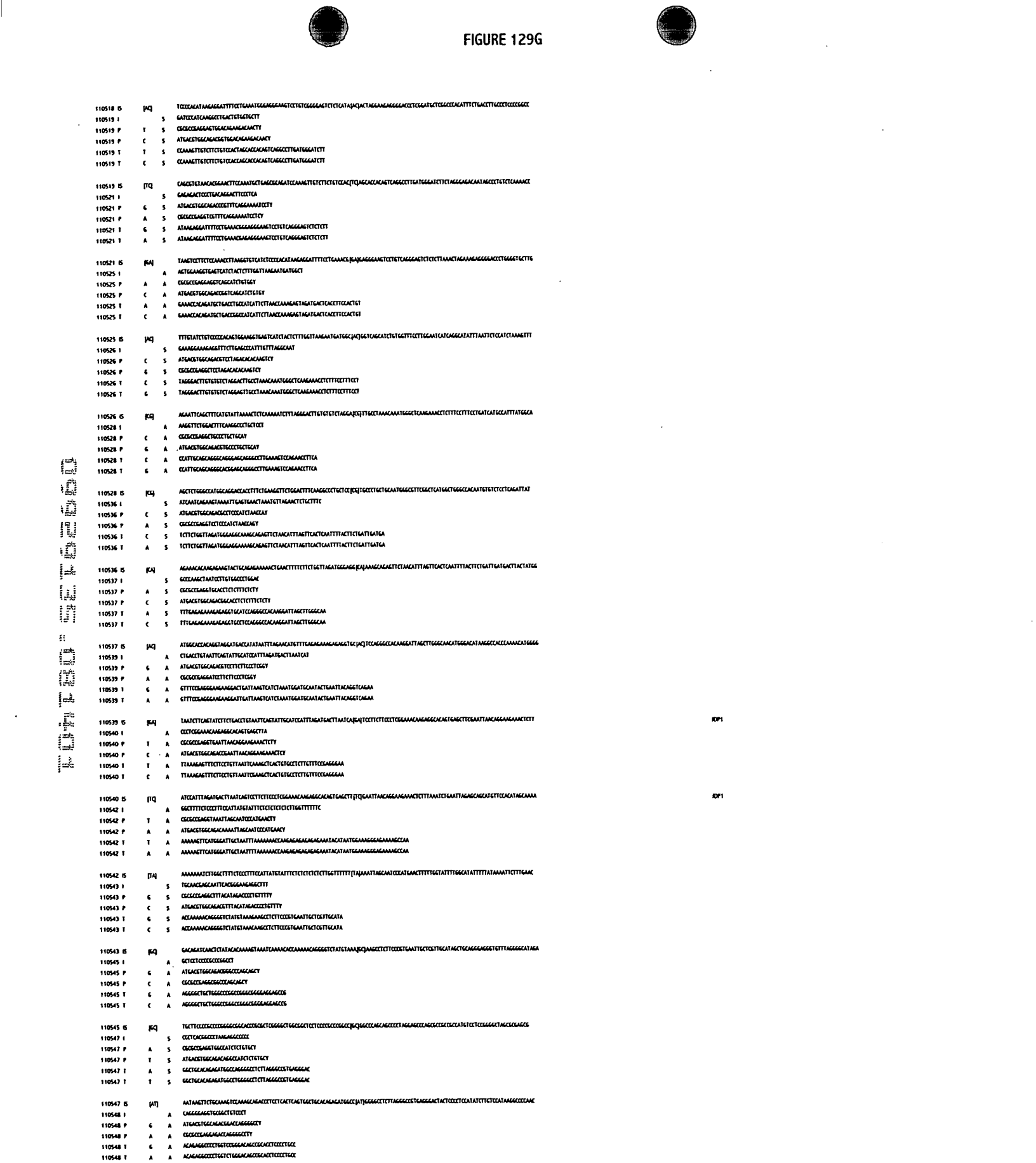
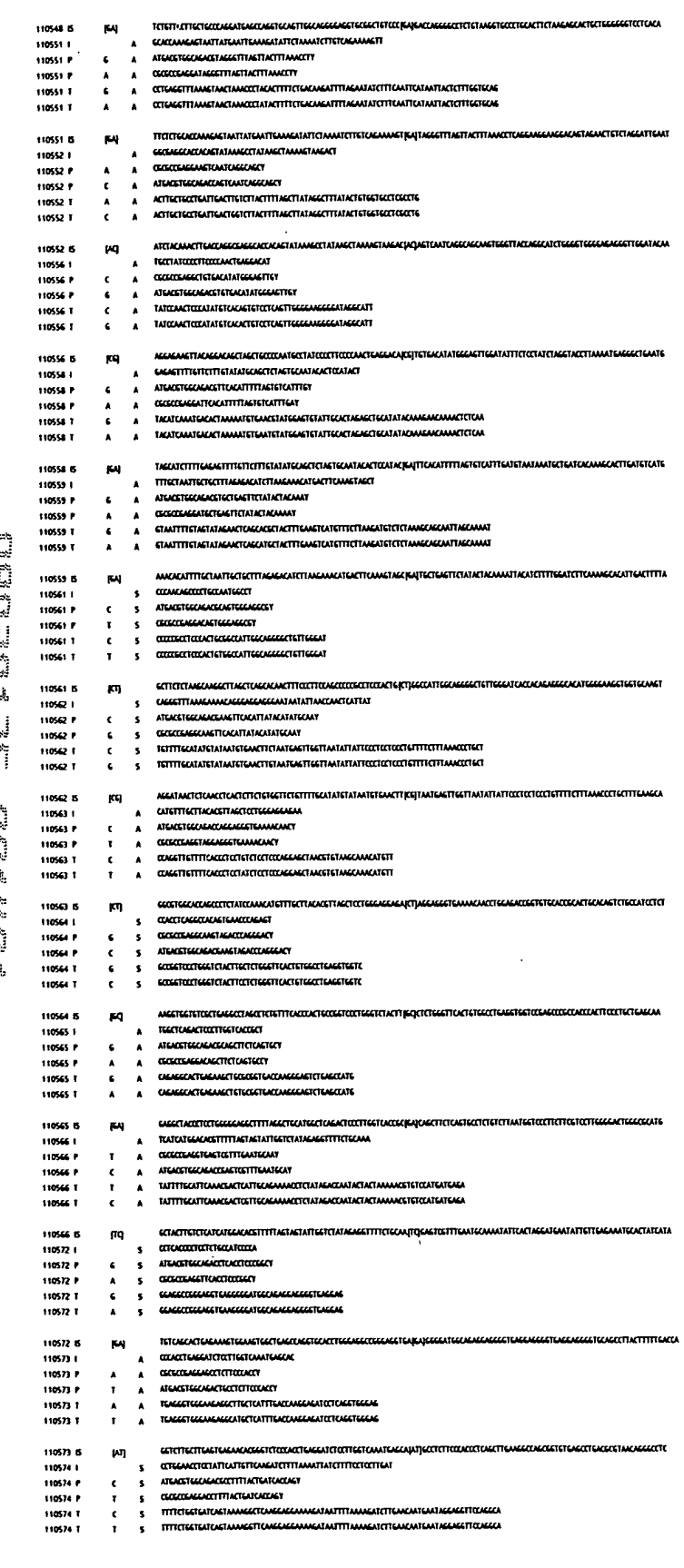
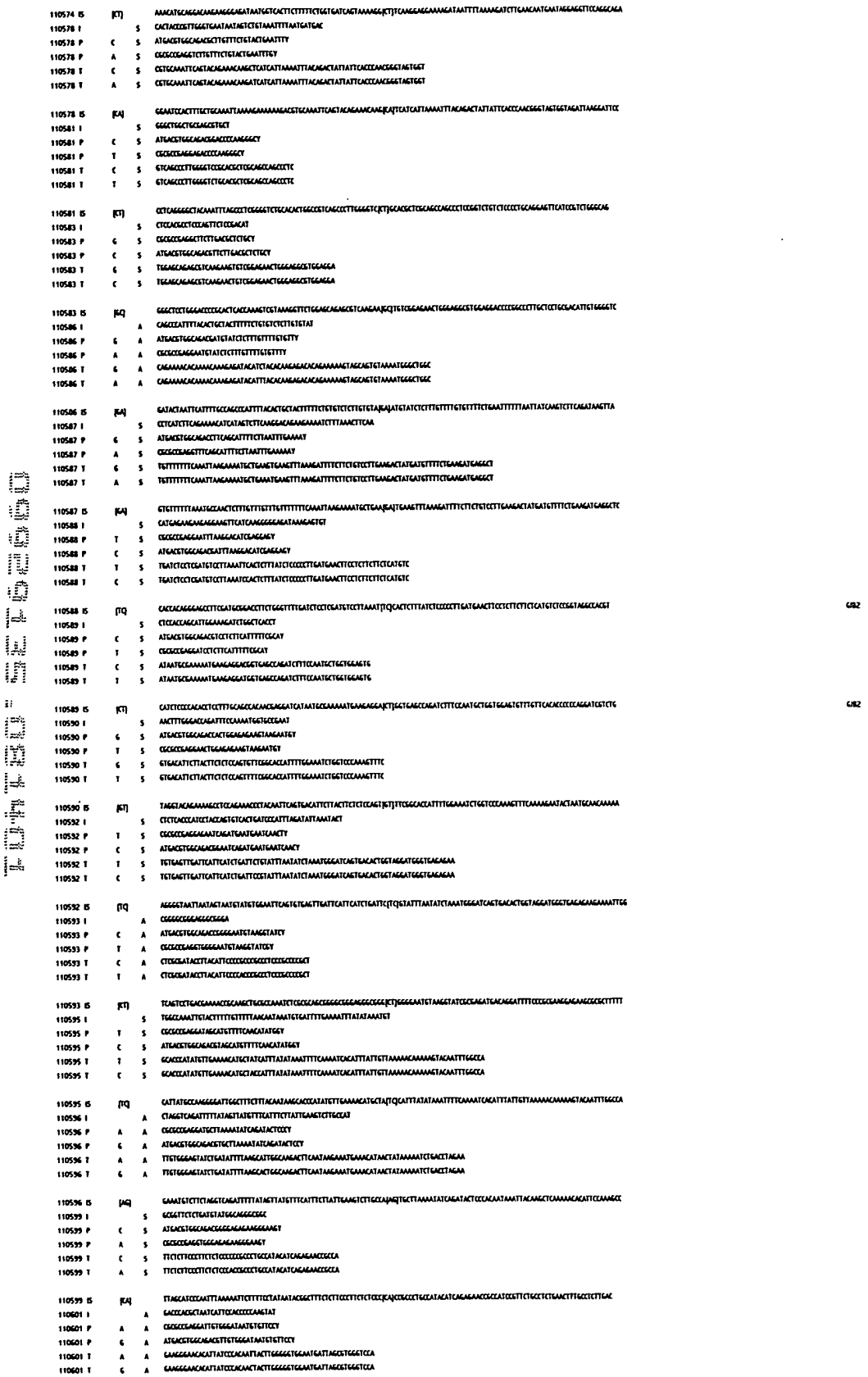
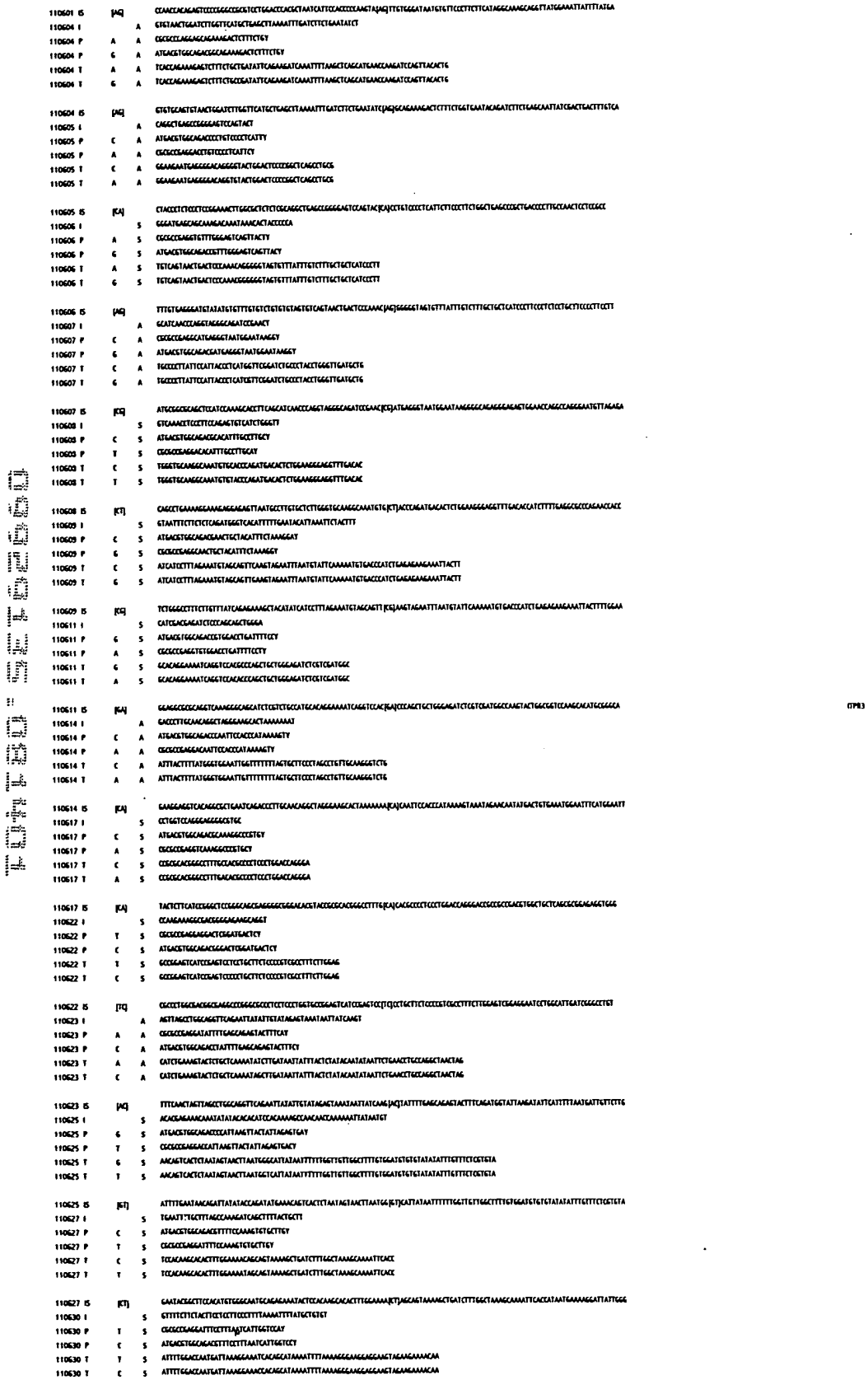


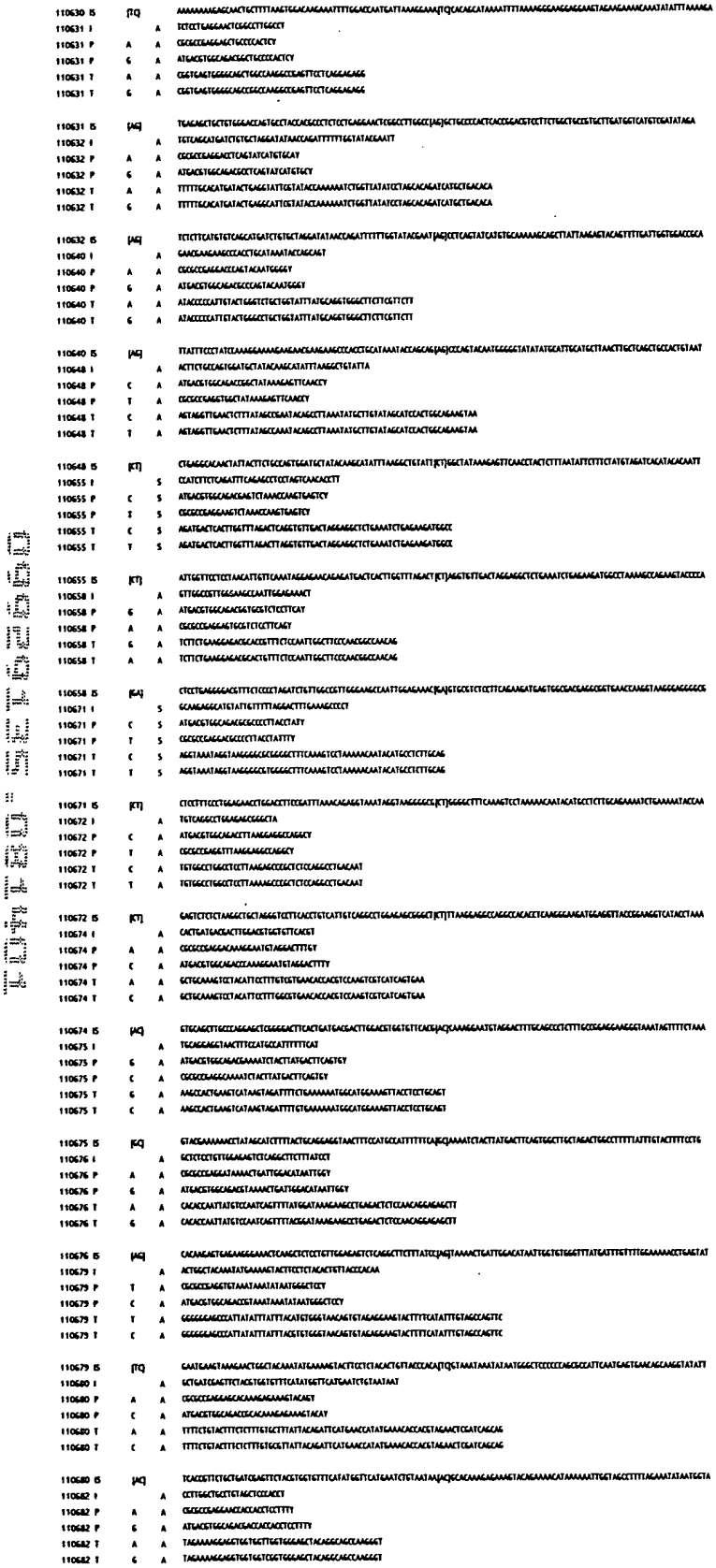
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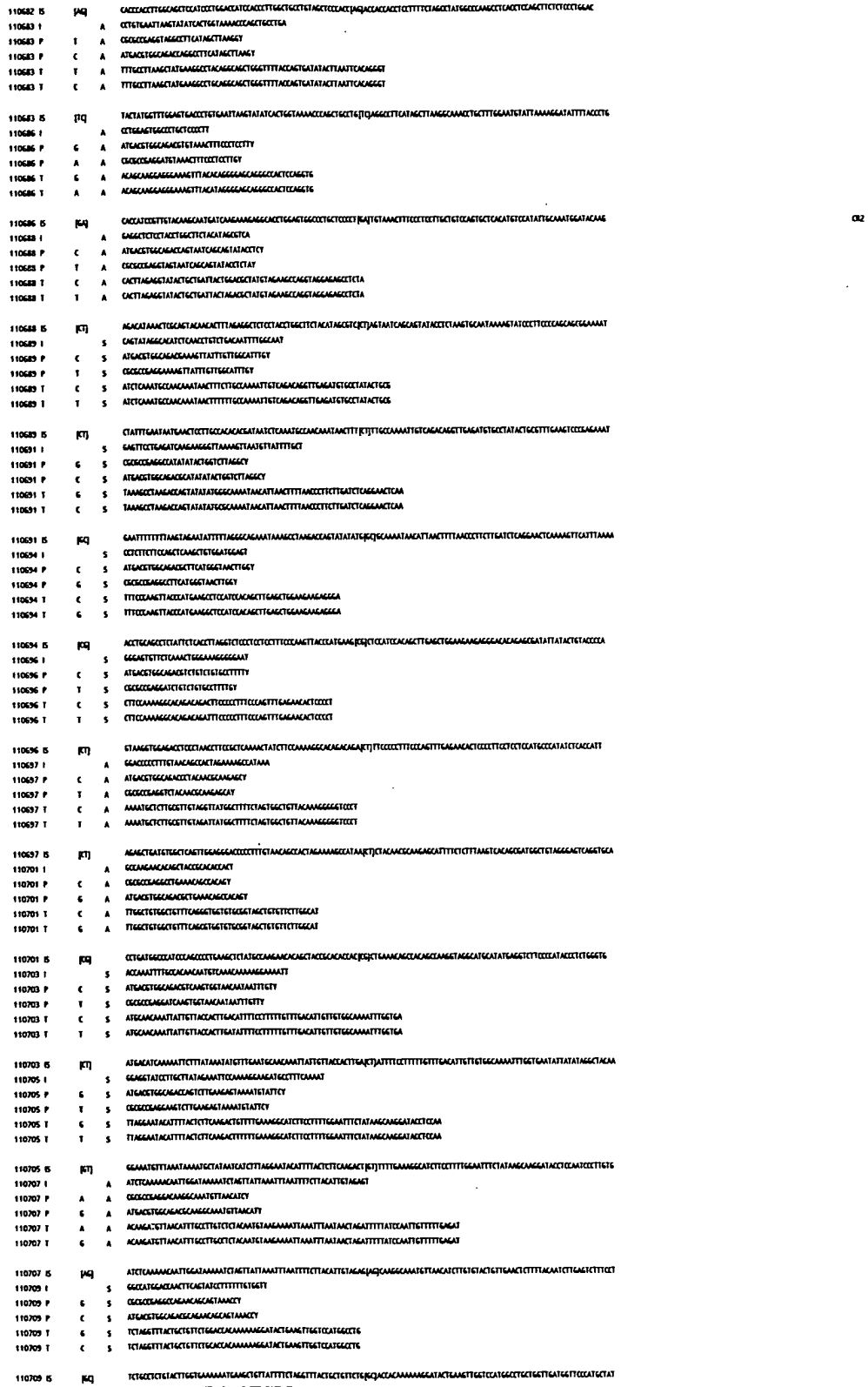












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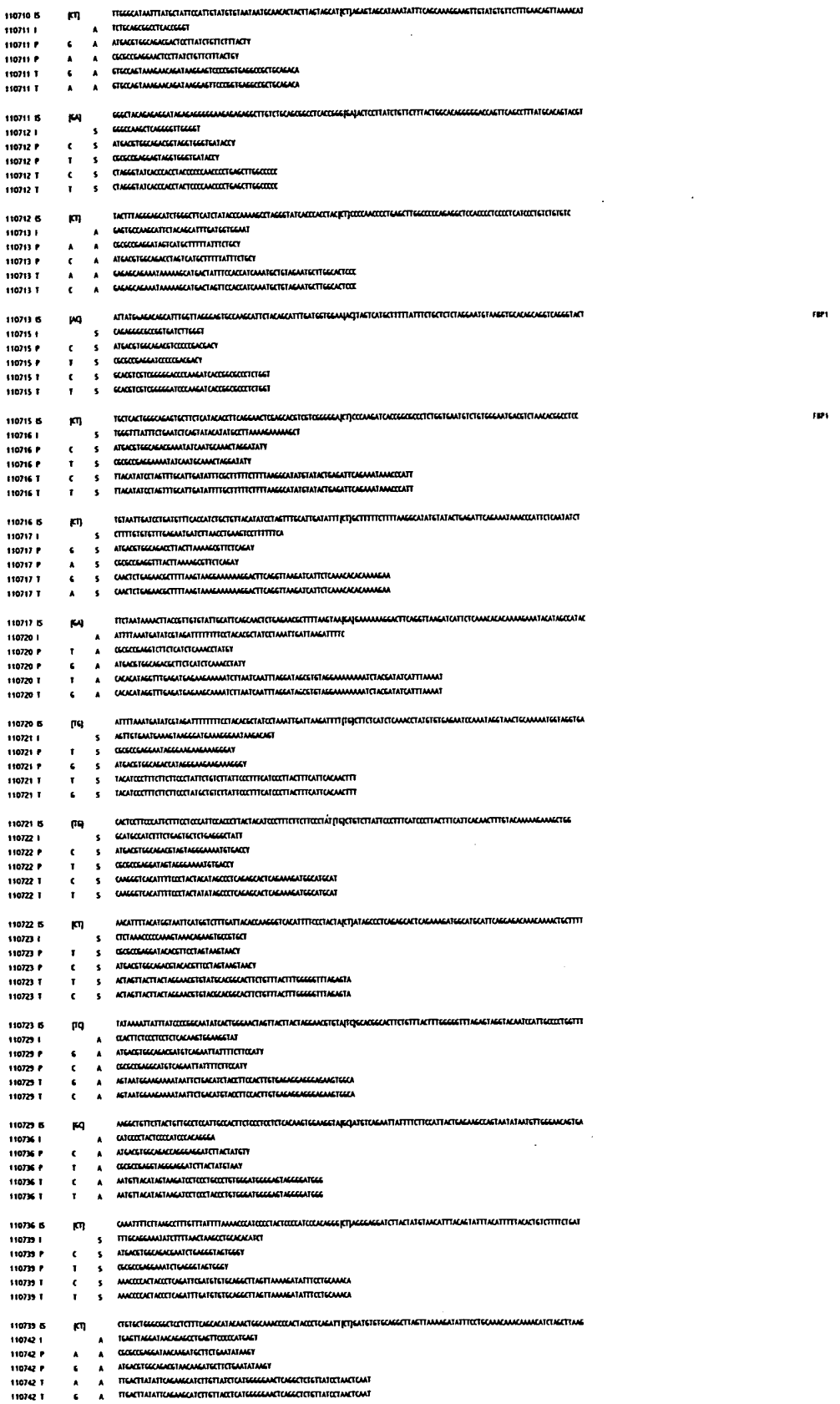


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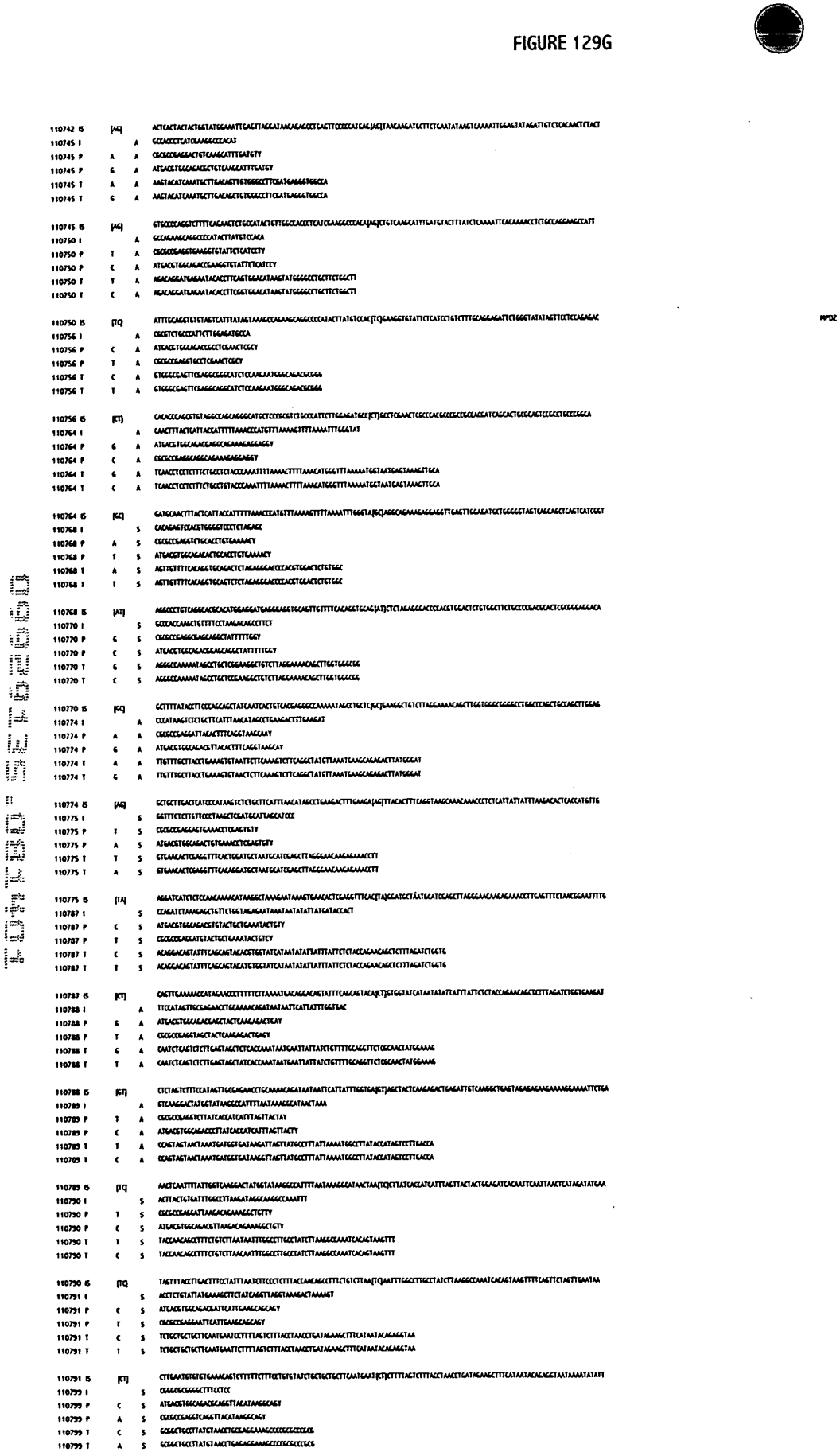


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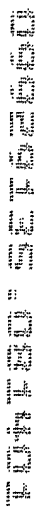


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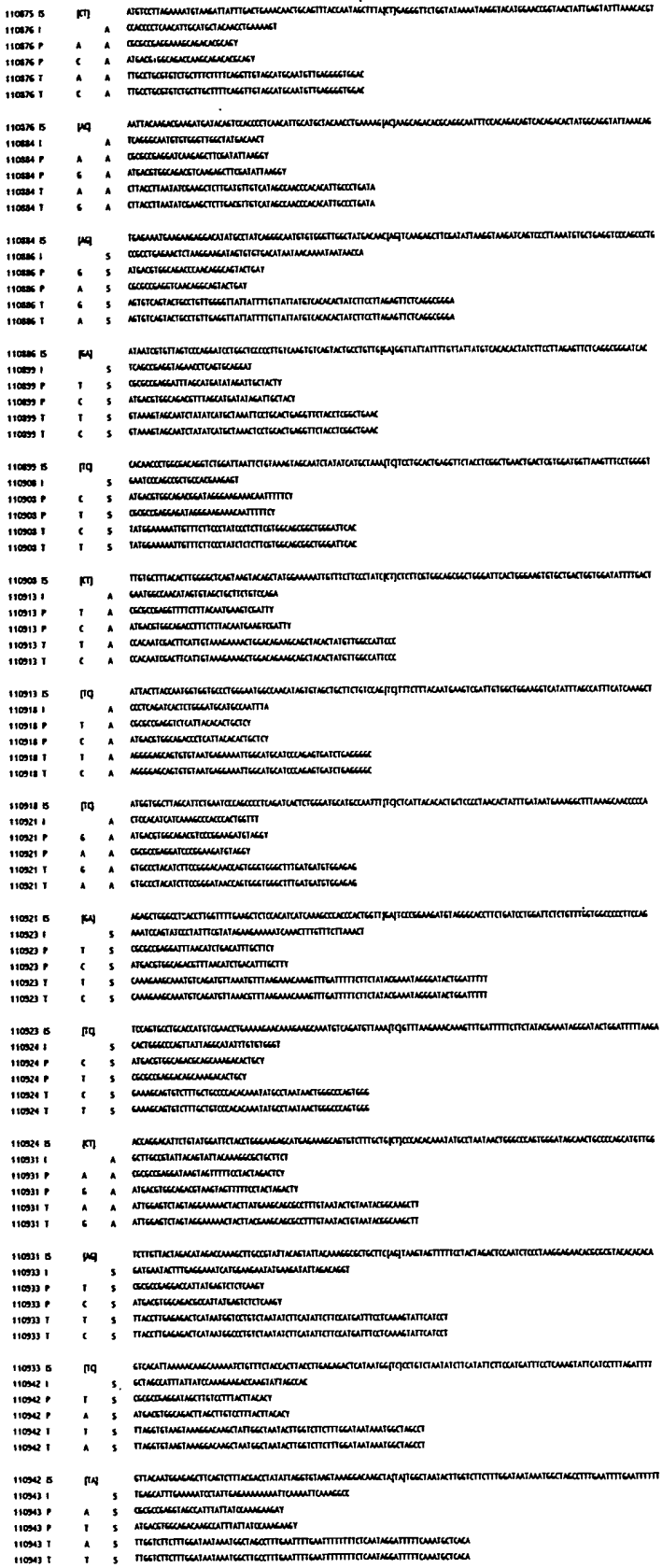


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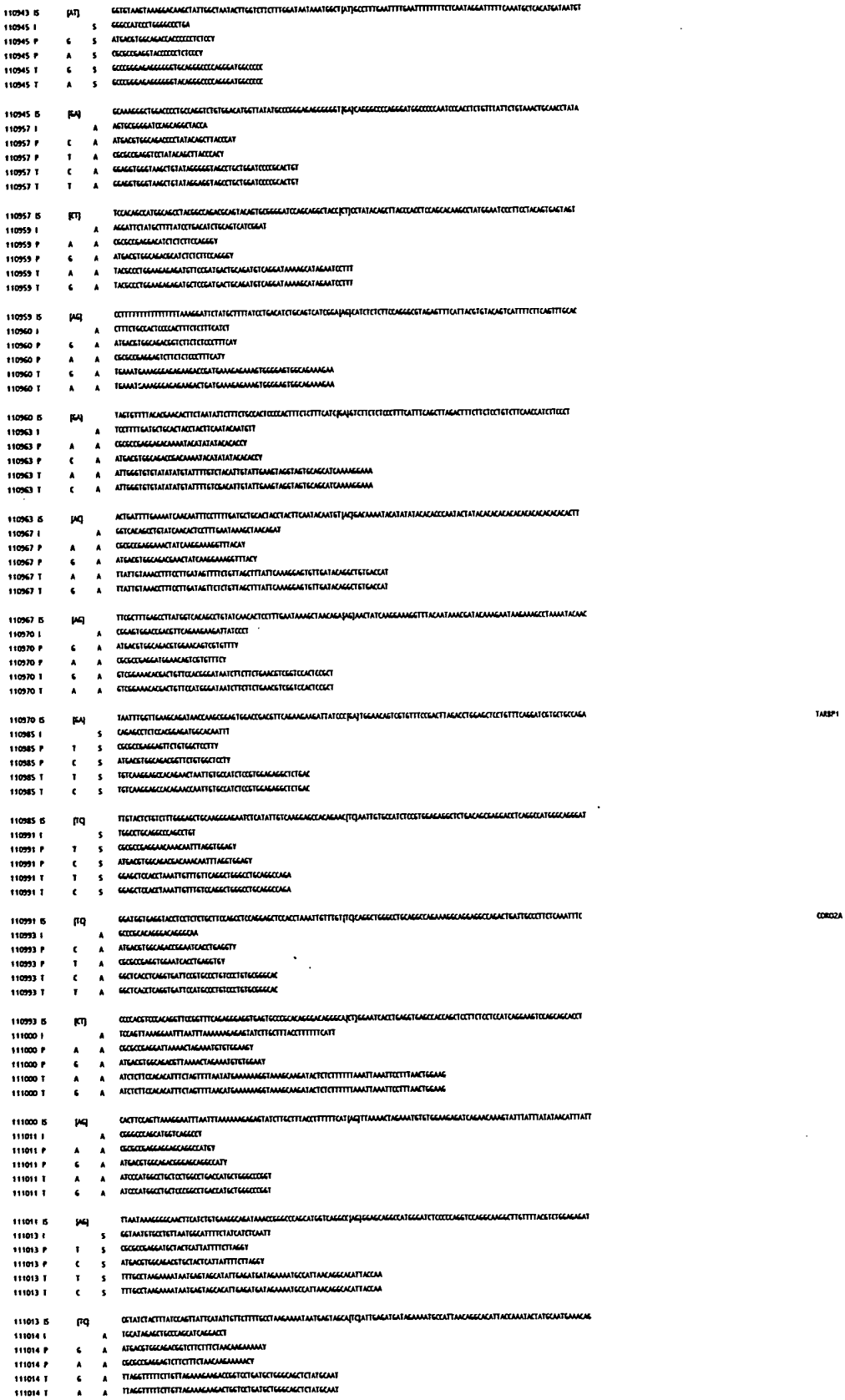
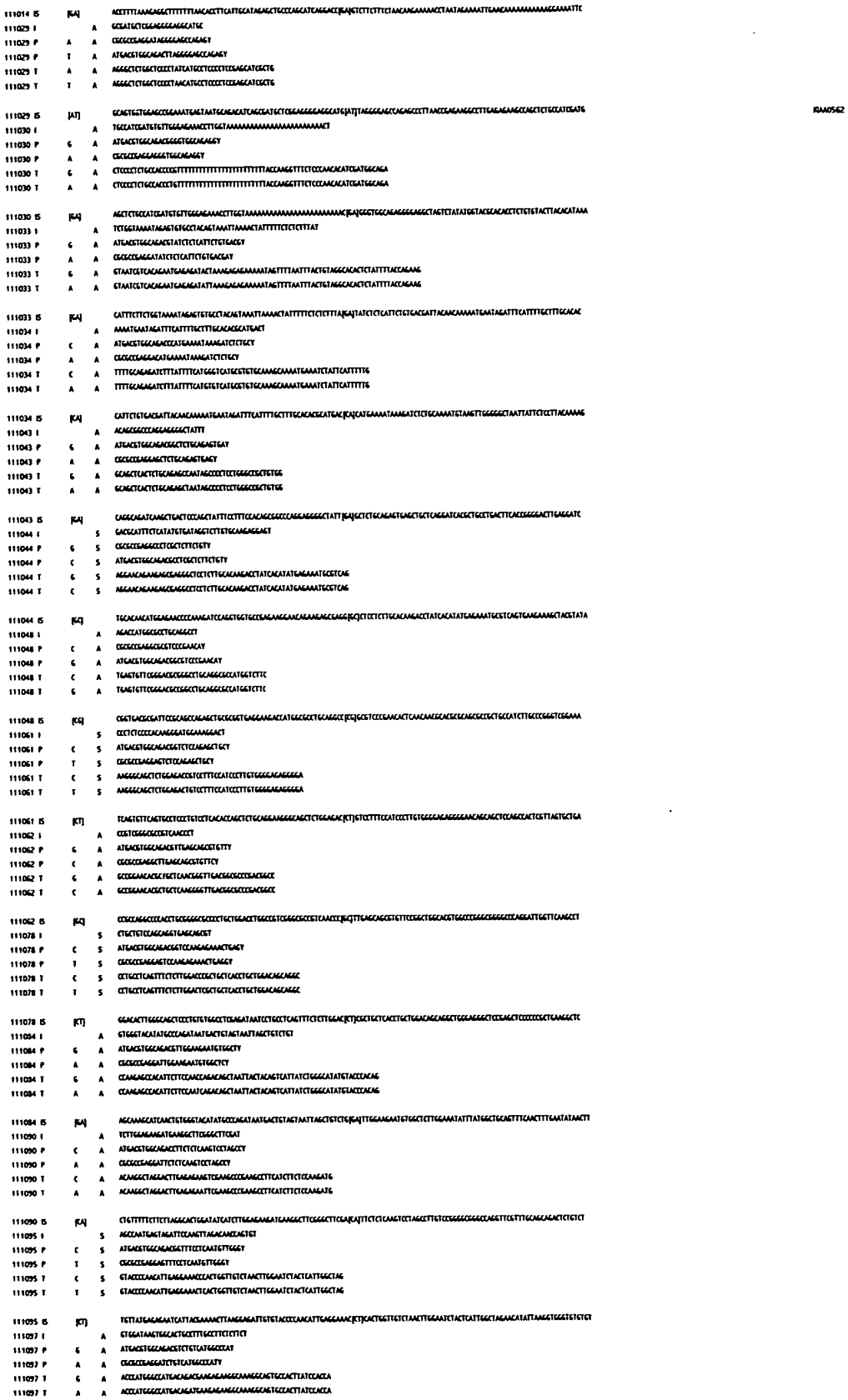


FIGURE 129G



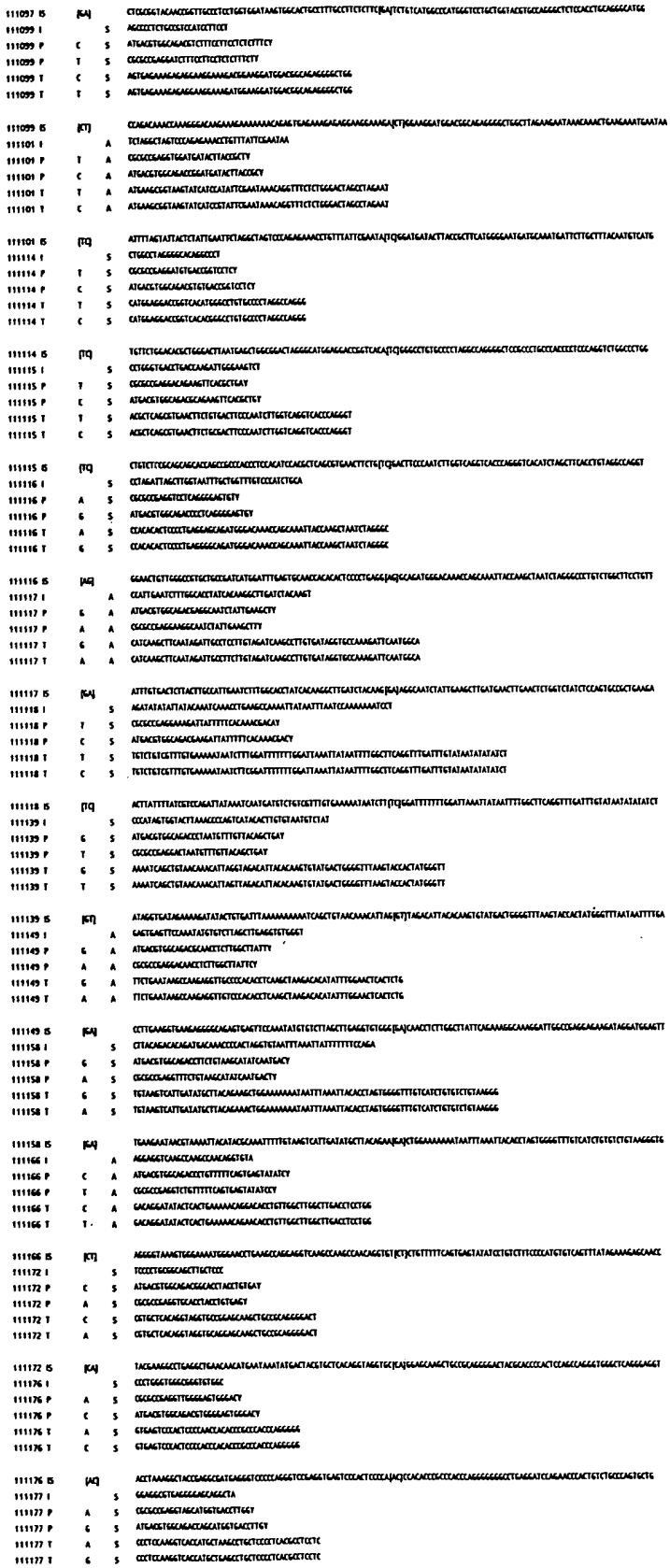


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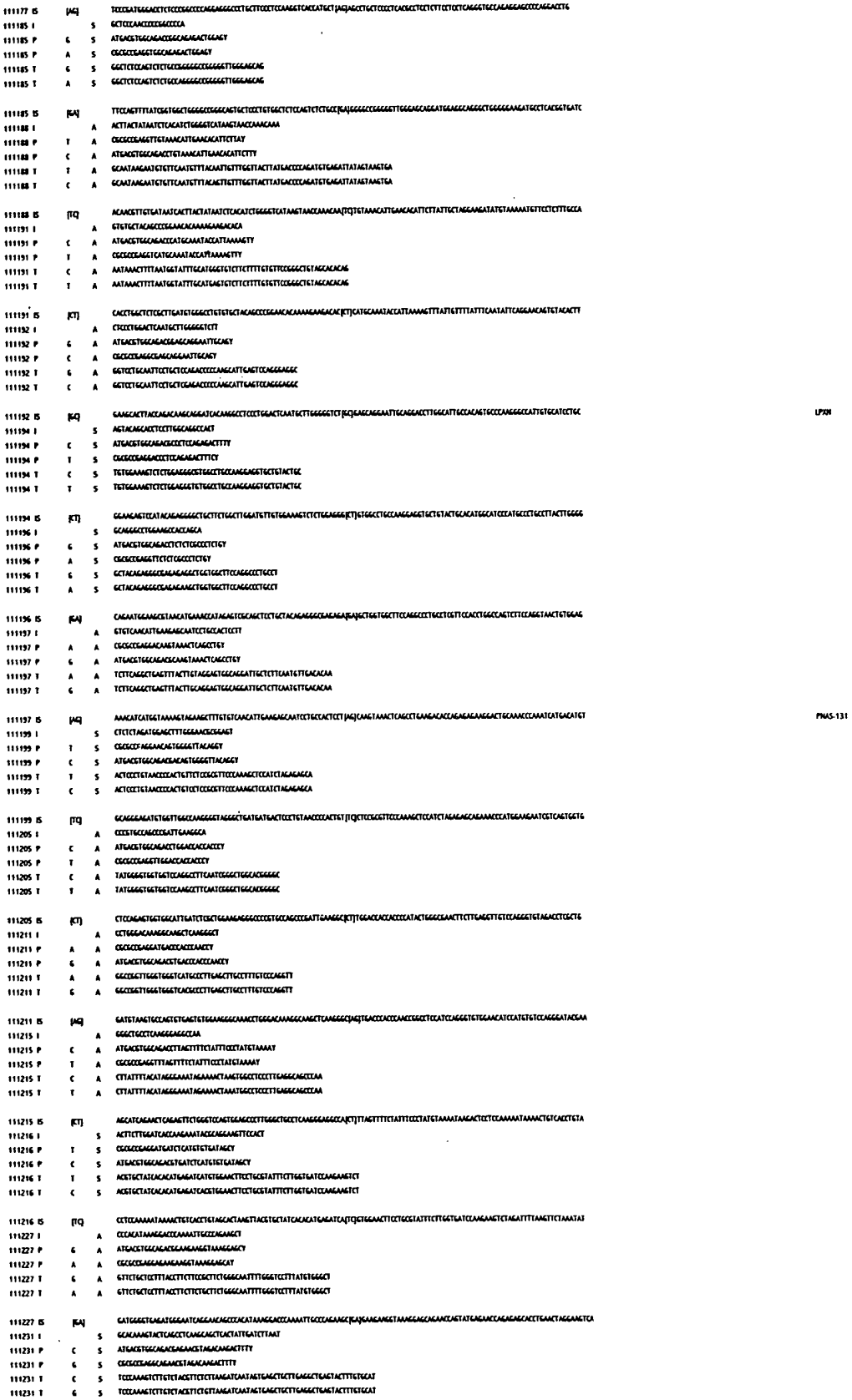


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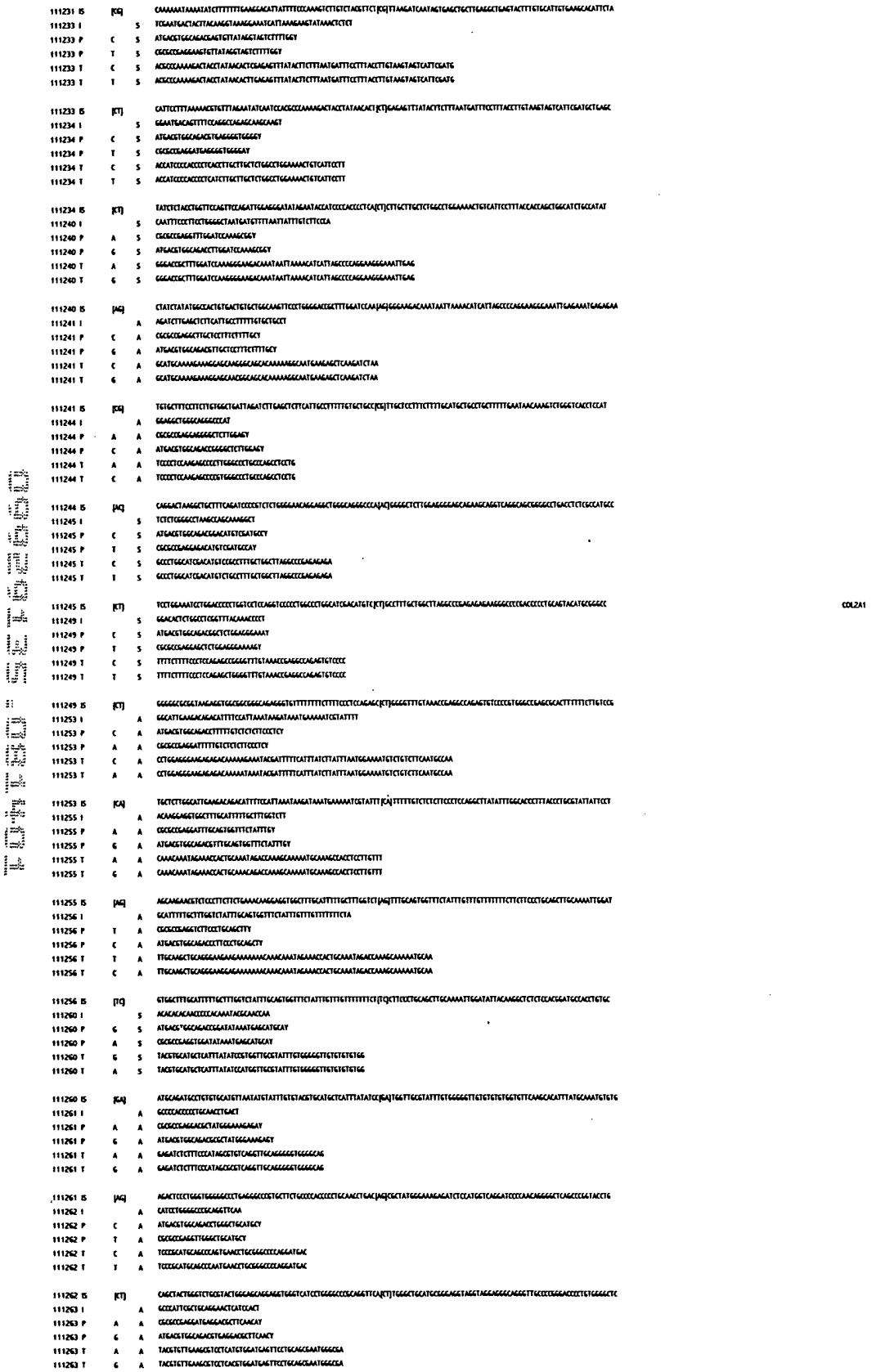


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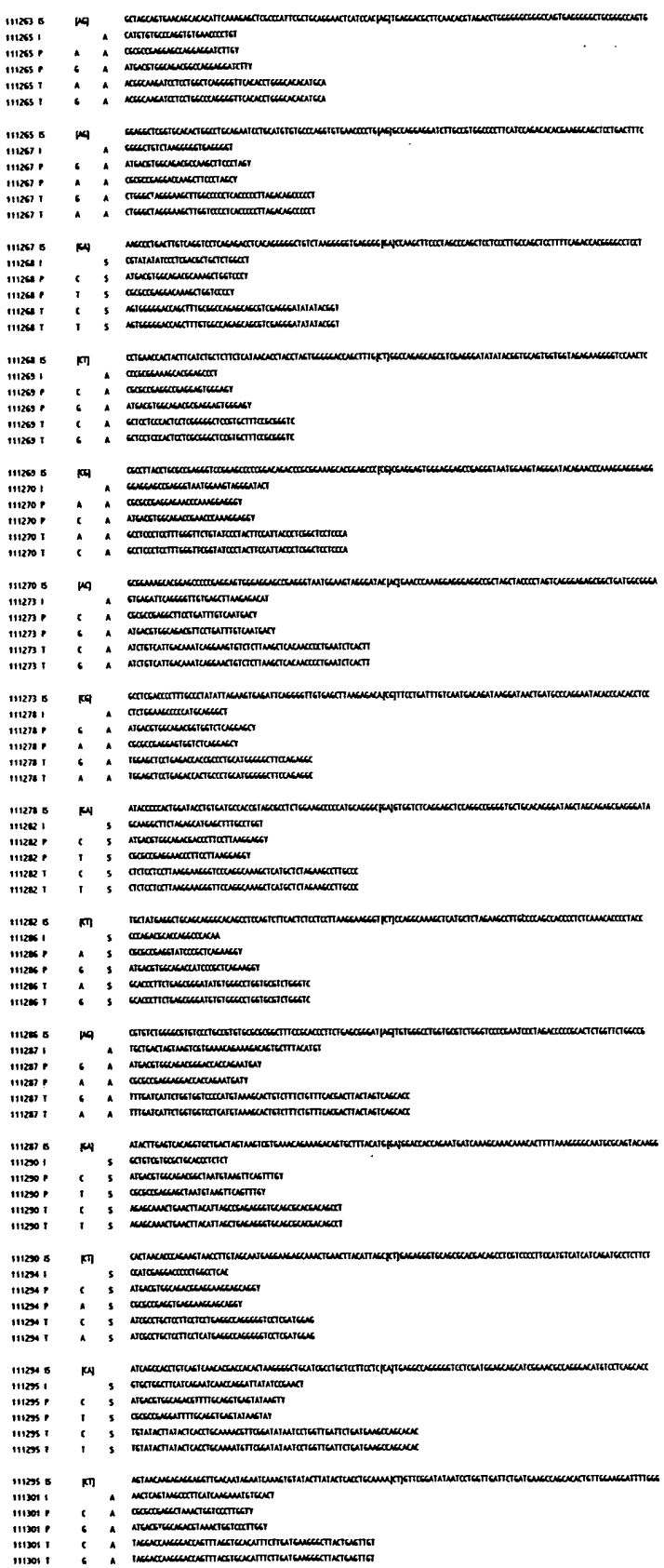


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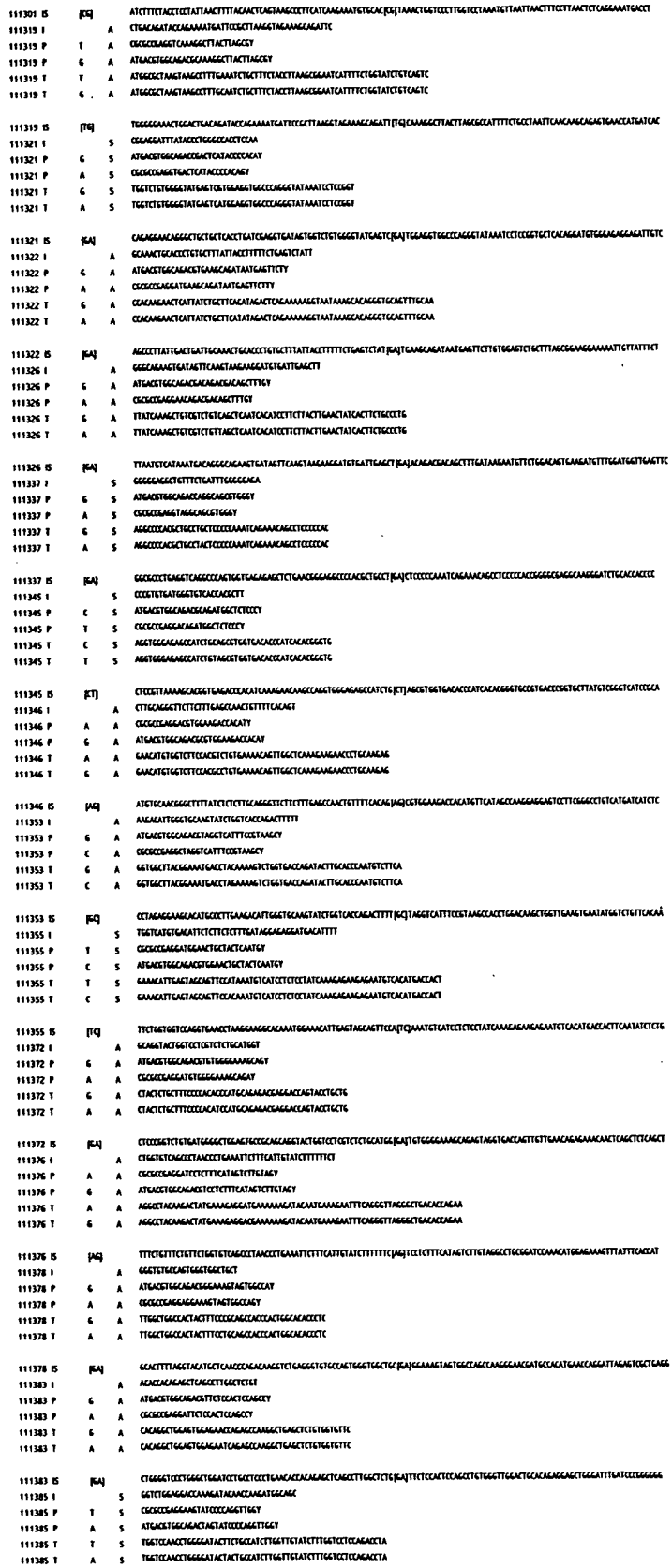


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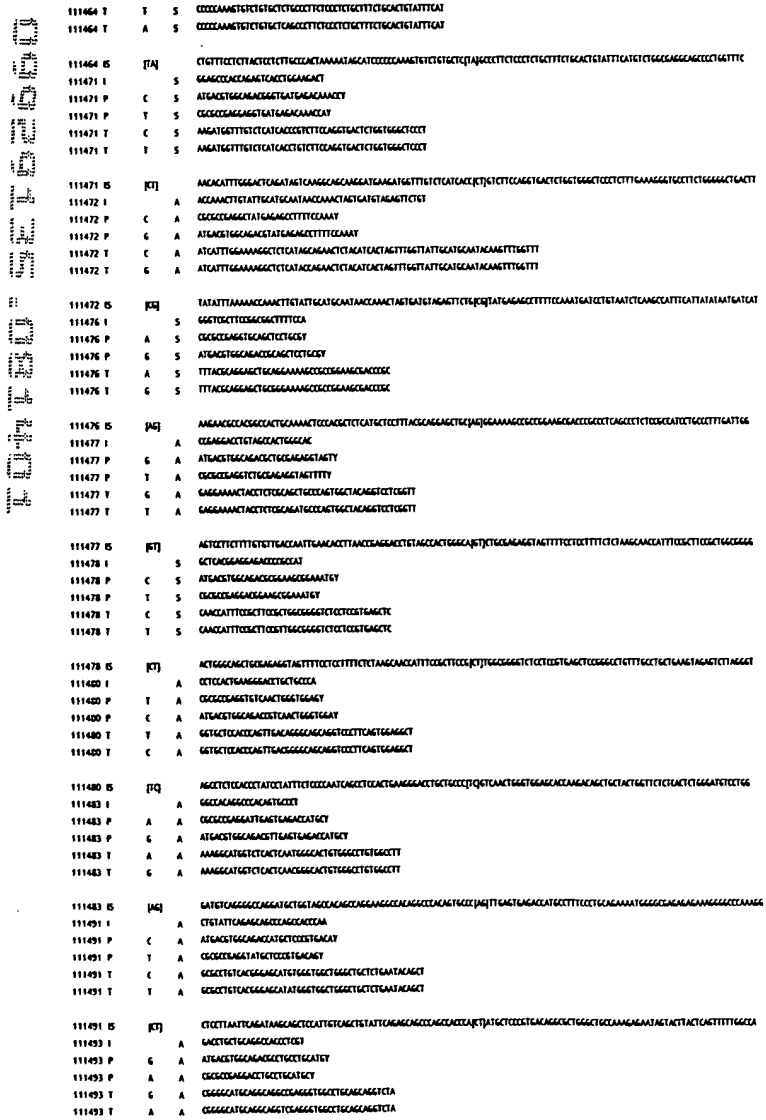


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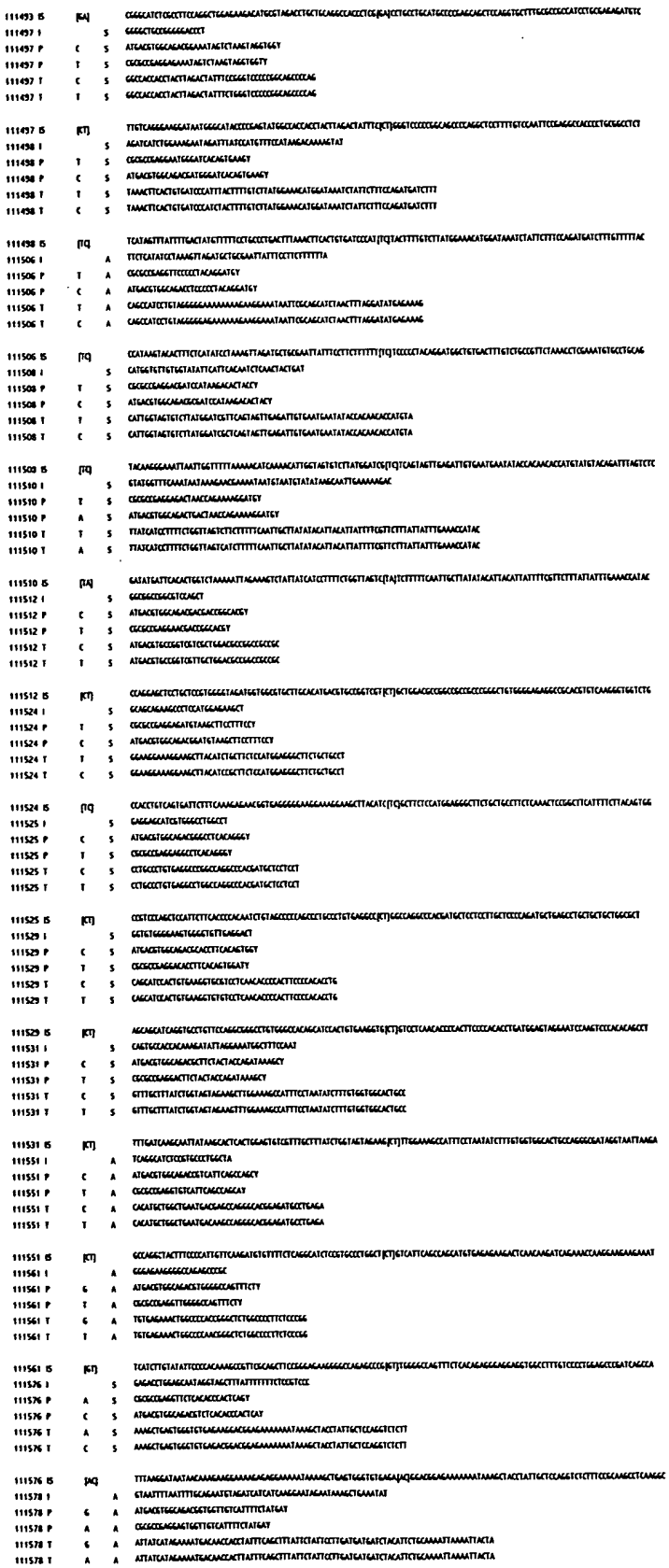


FIGURE 129G

FIGURE 129G

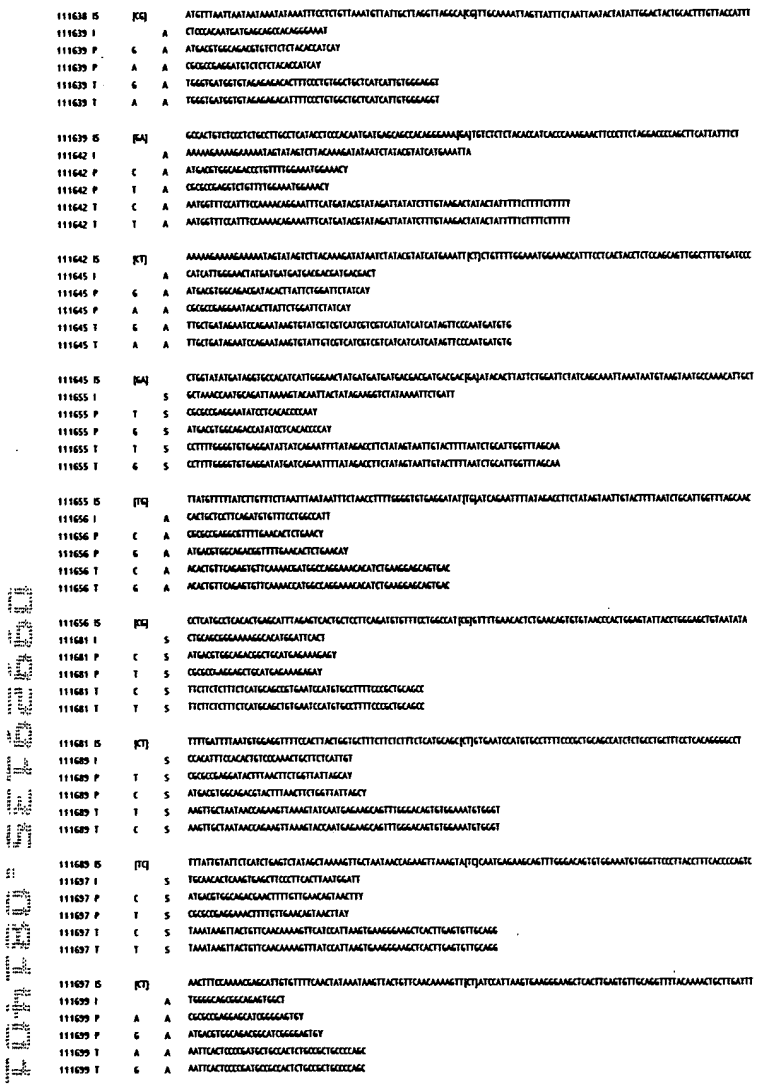
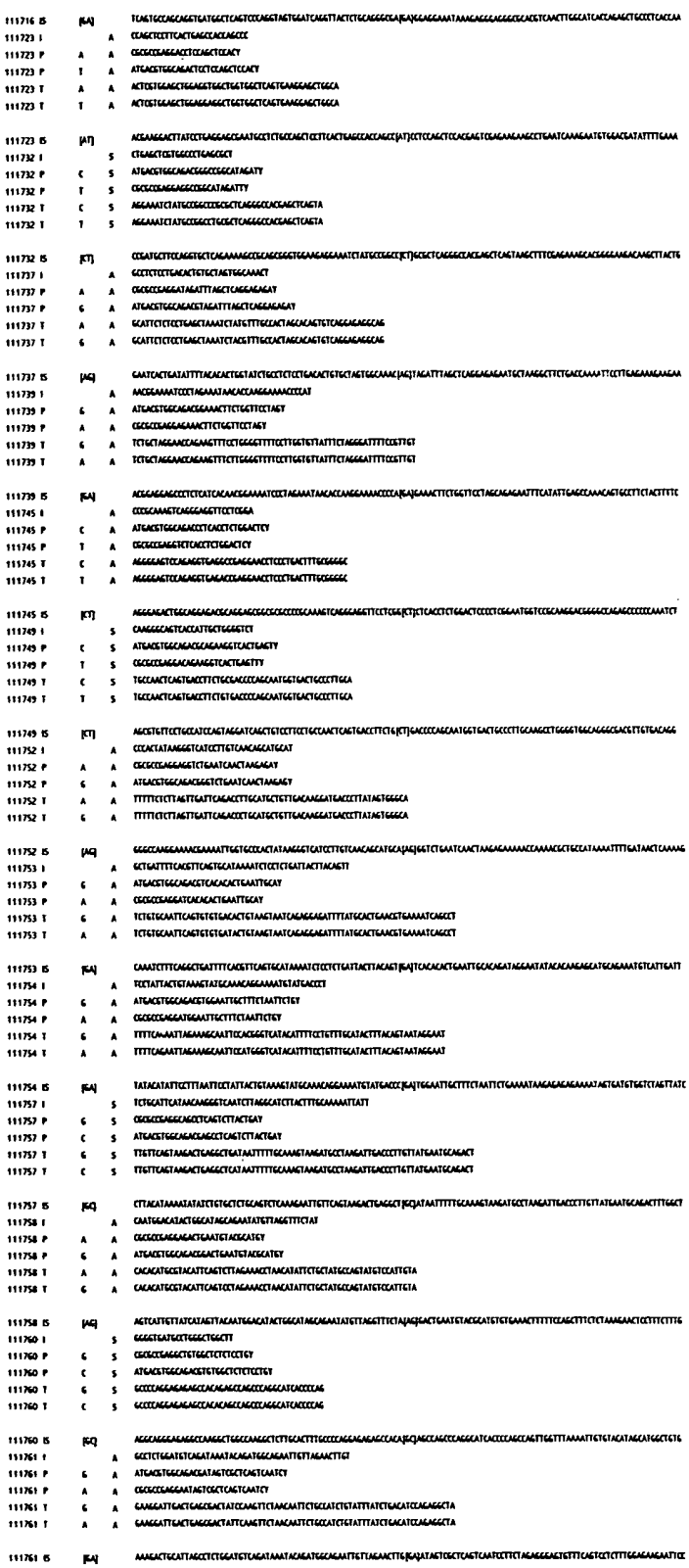
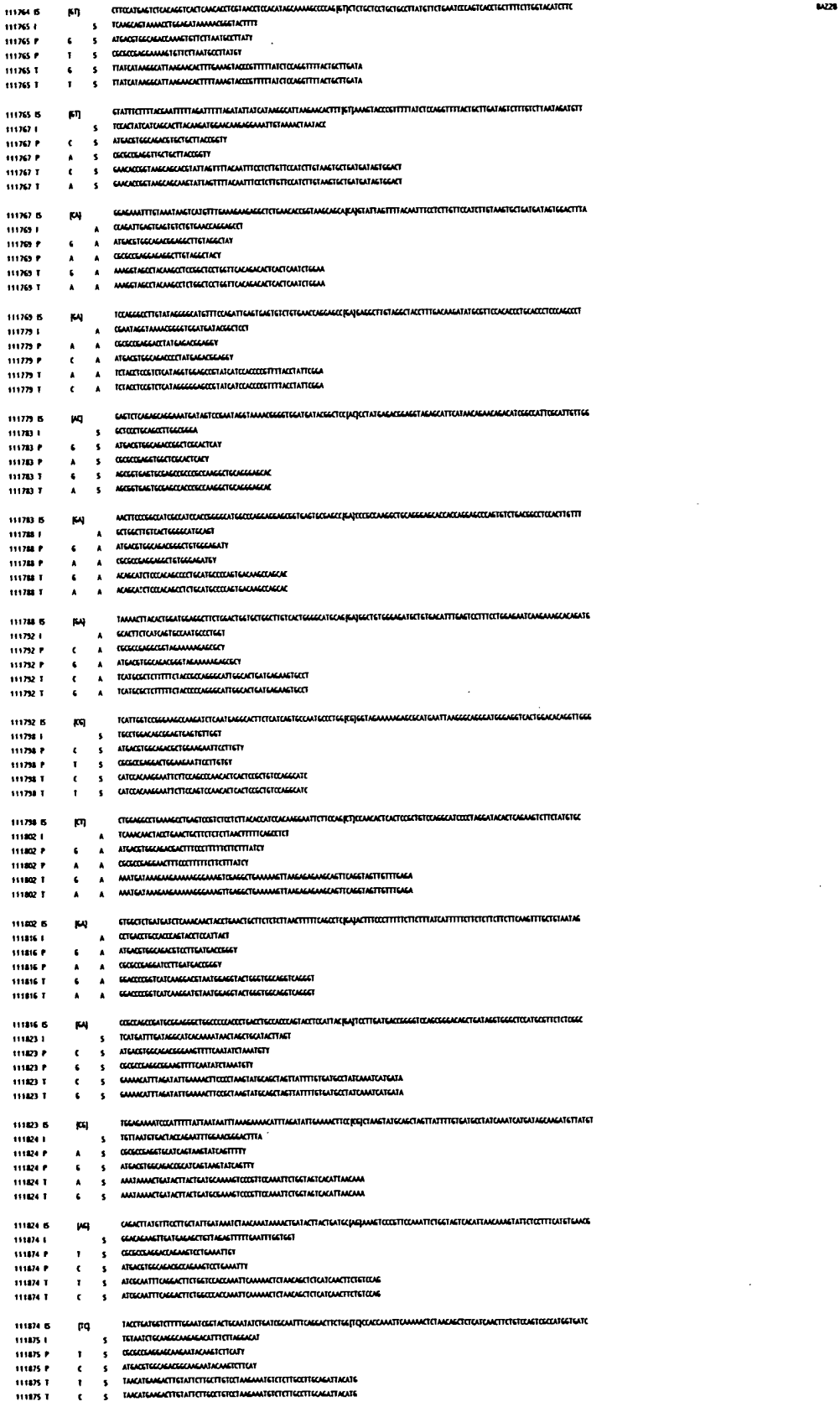


FIGURE 129G





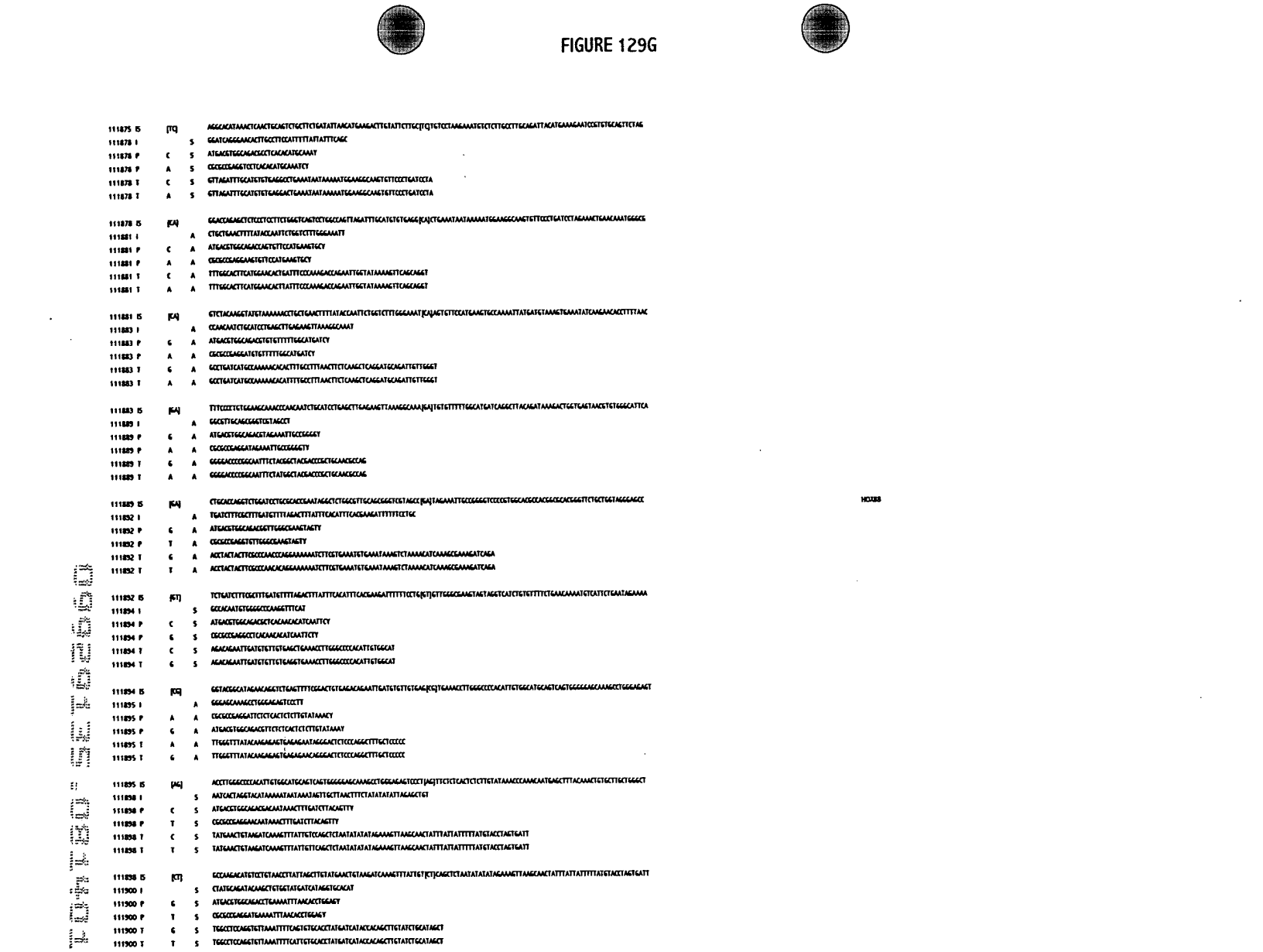
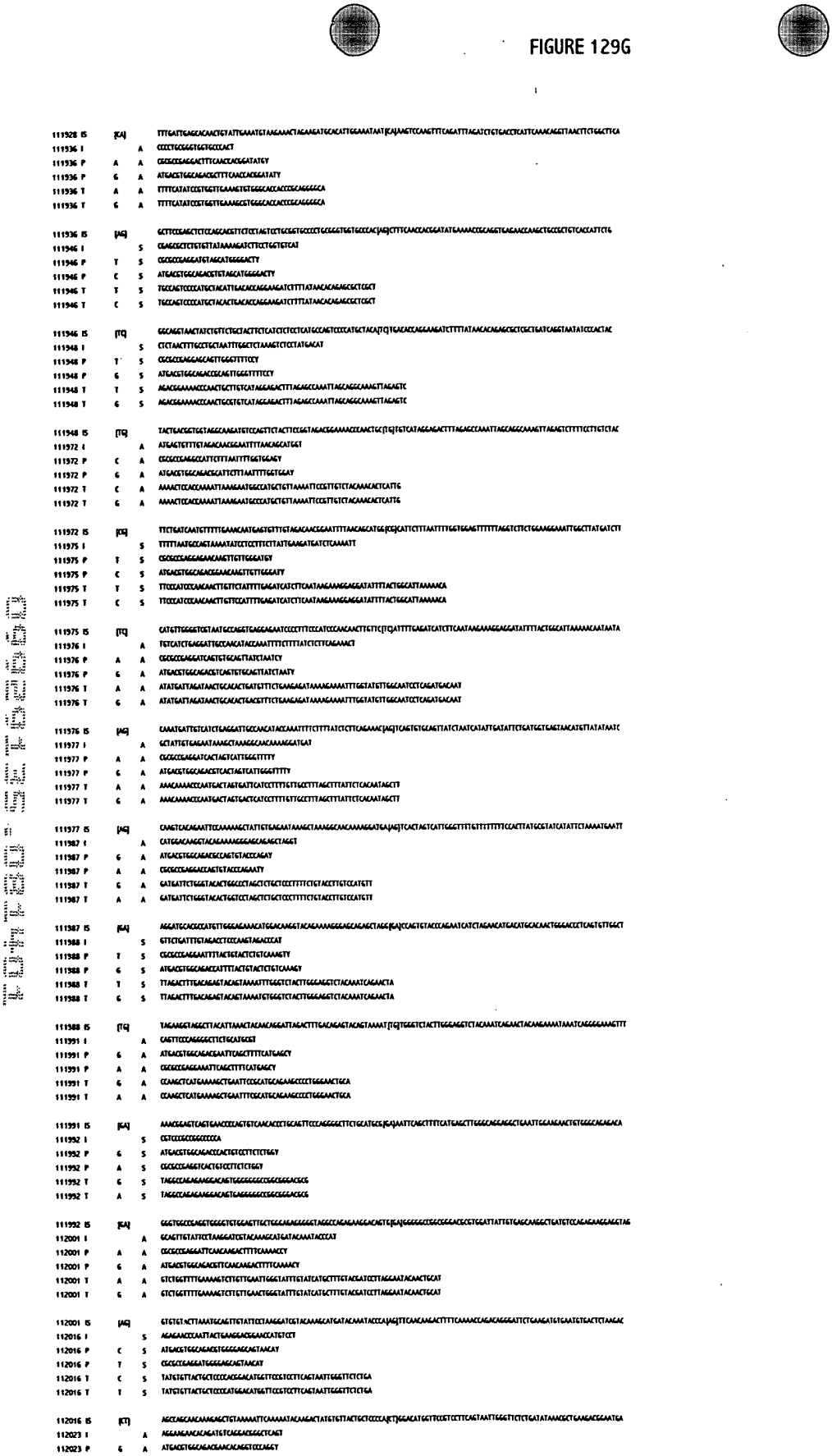


FIGURE 129G



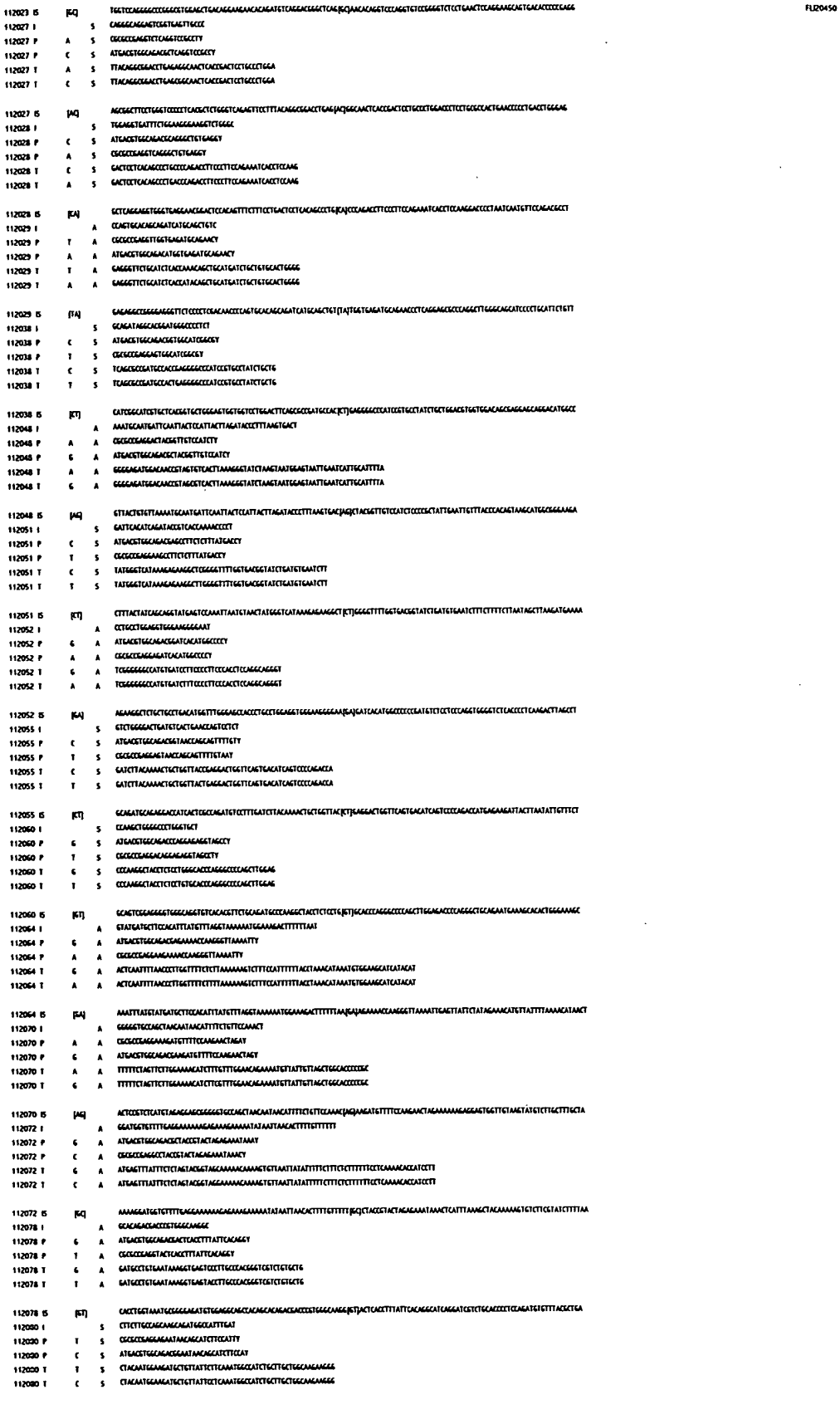


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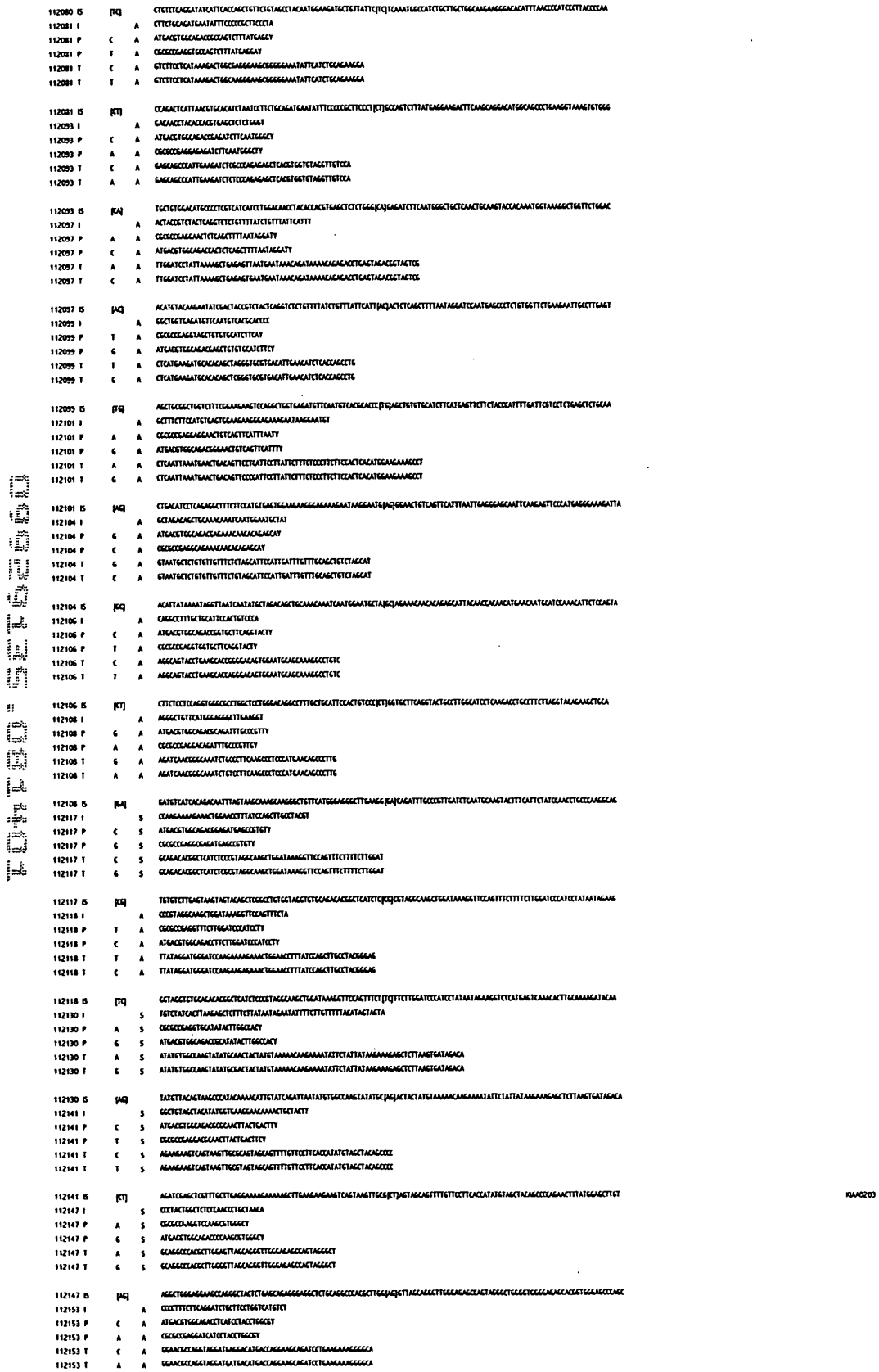


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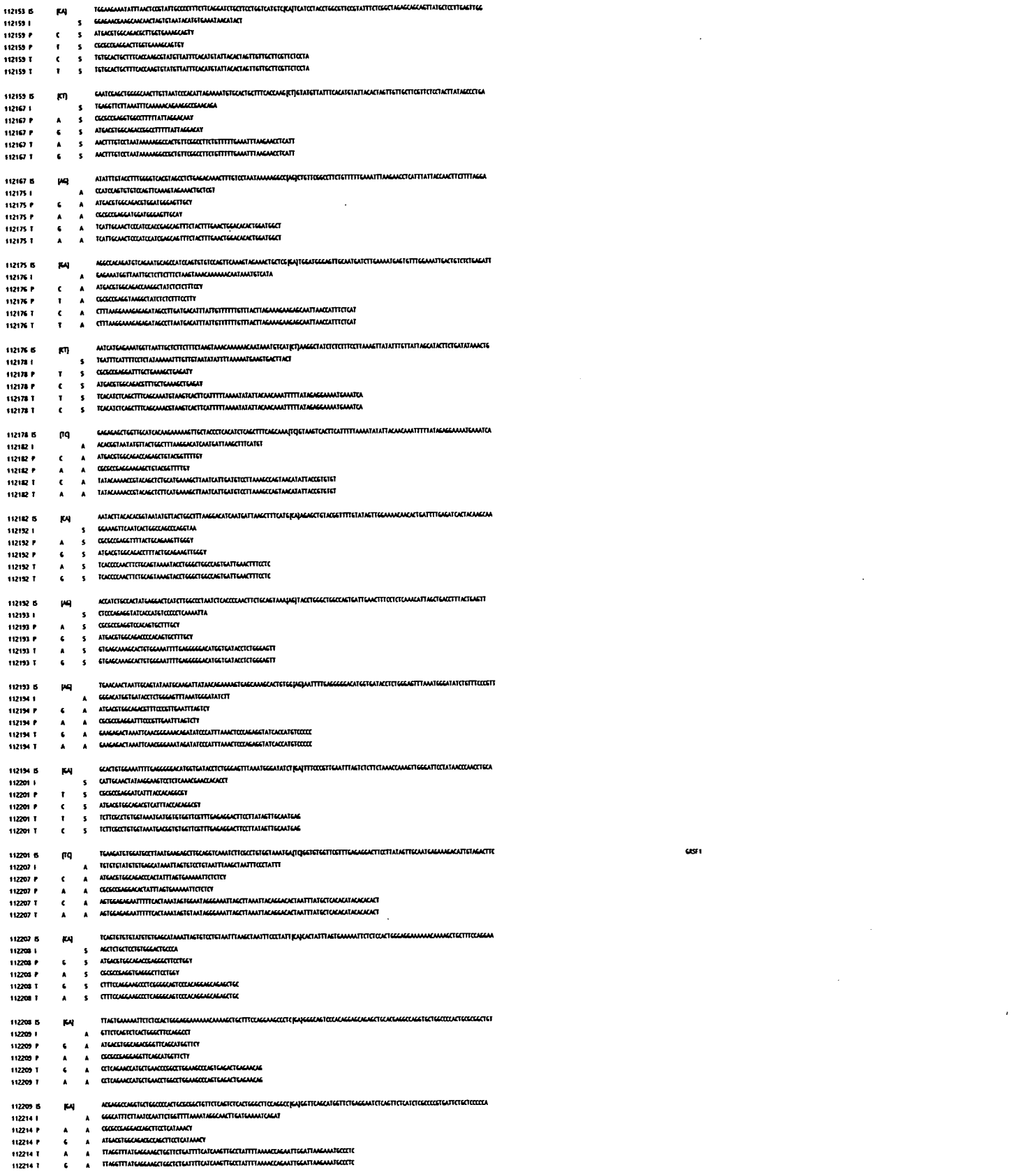


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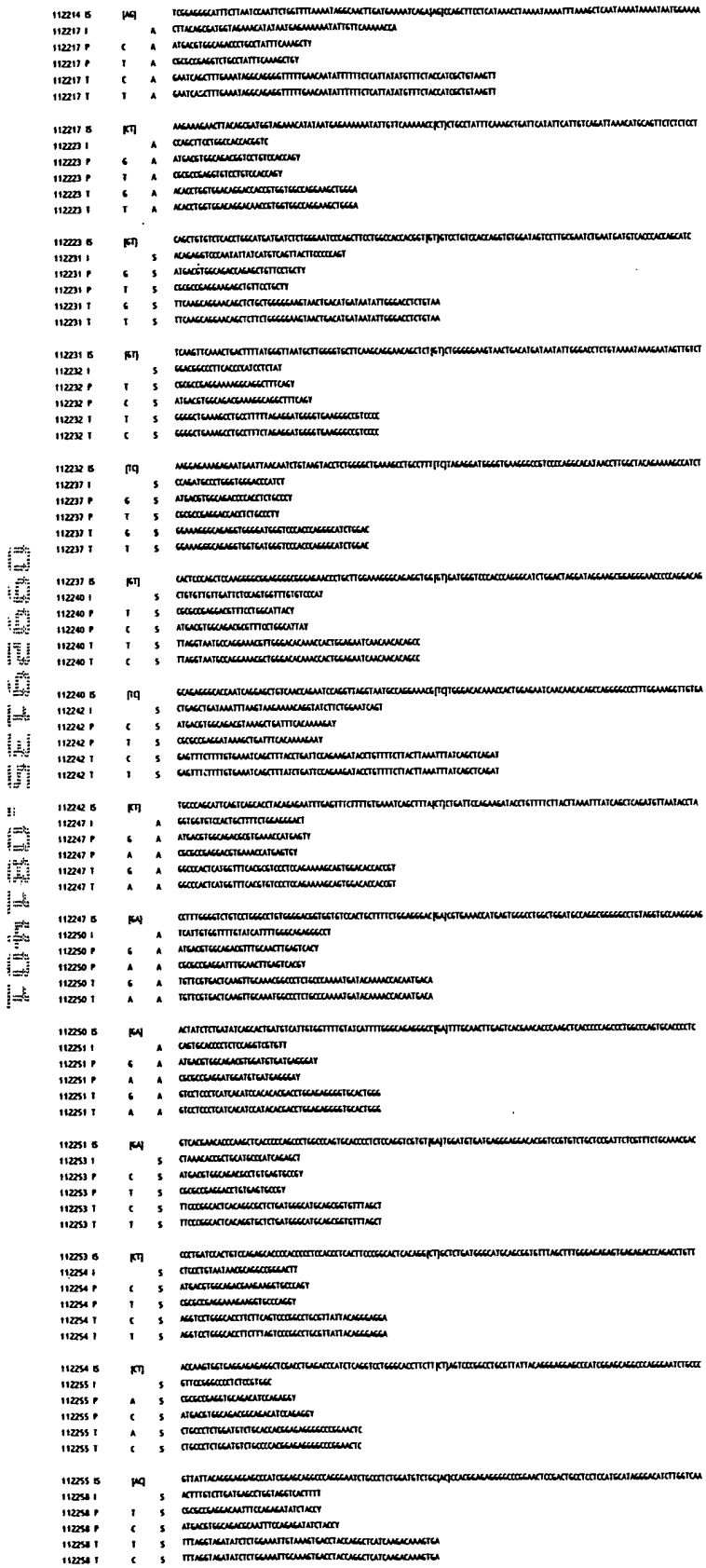
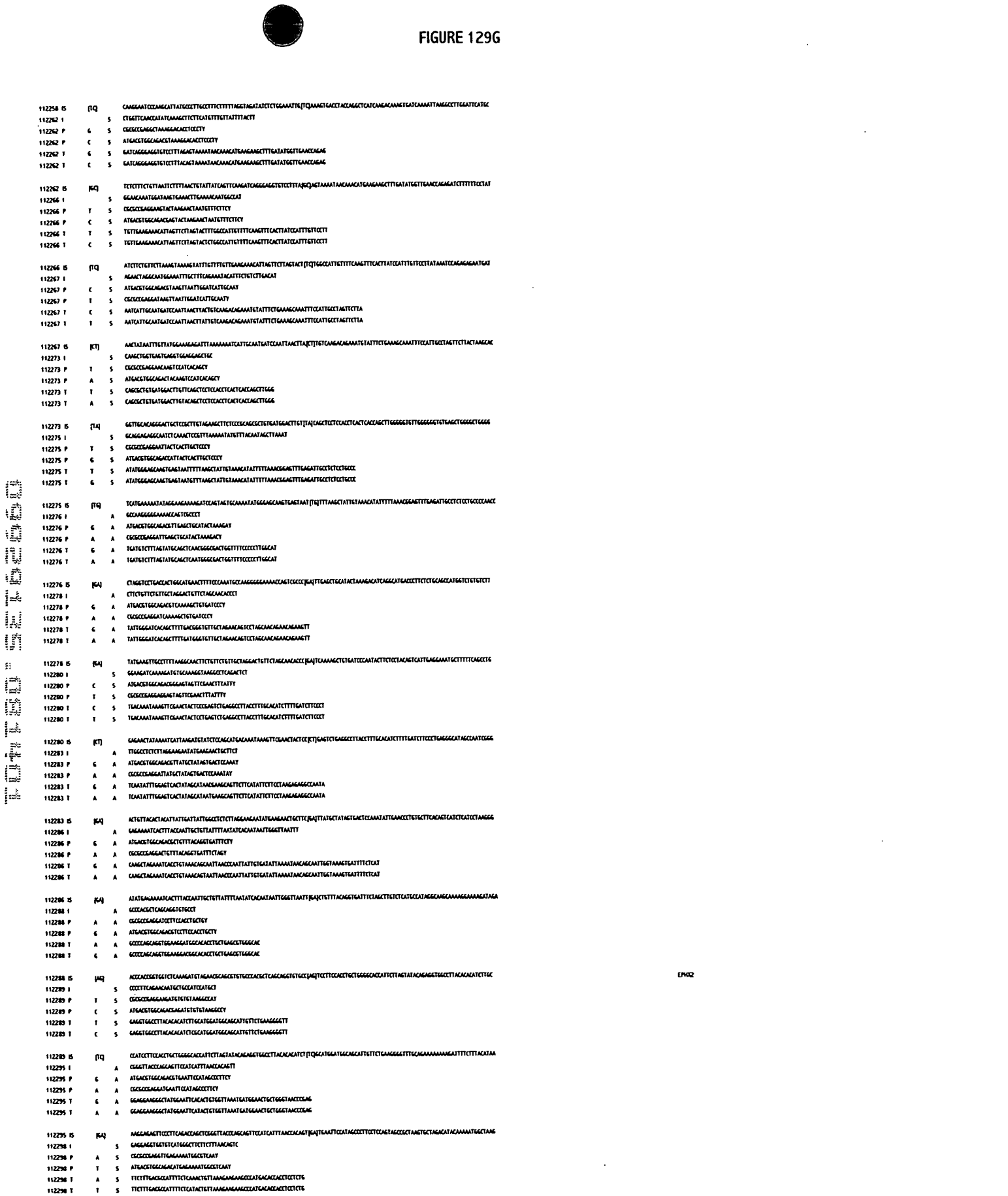
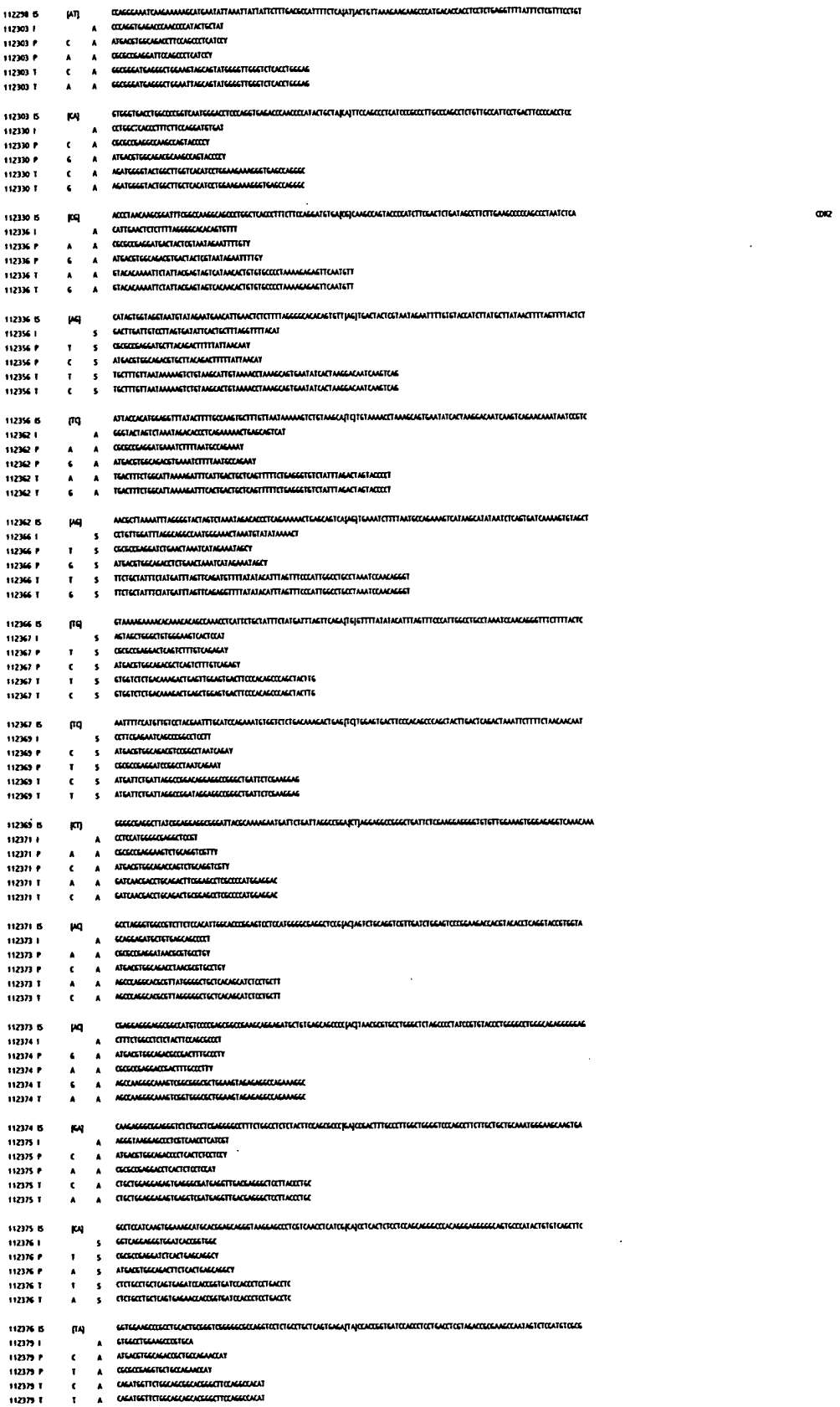


FIGURE 129G





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FIGURE 129G

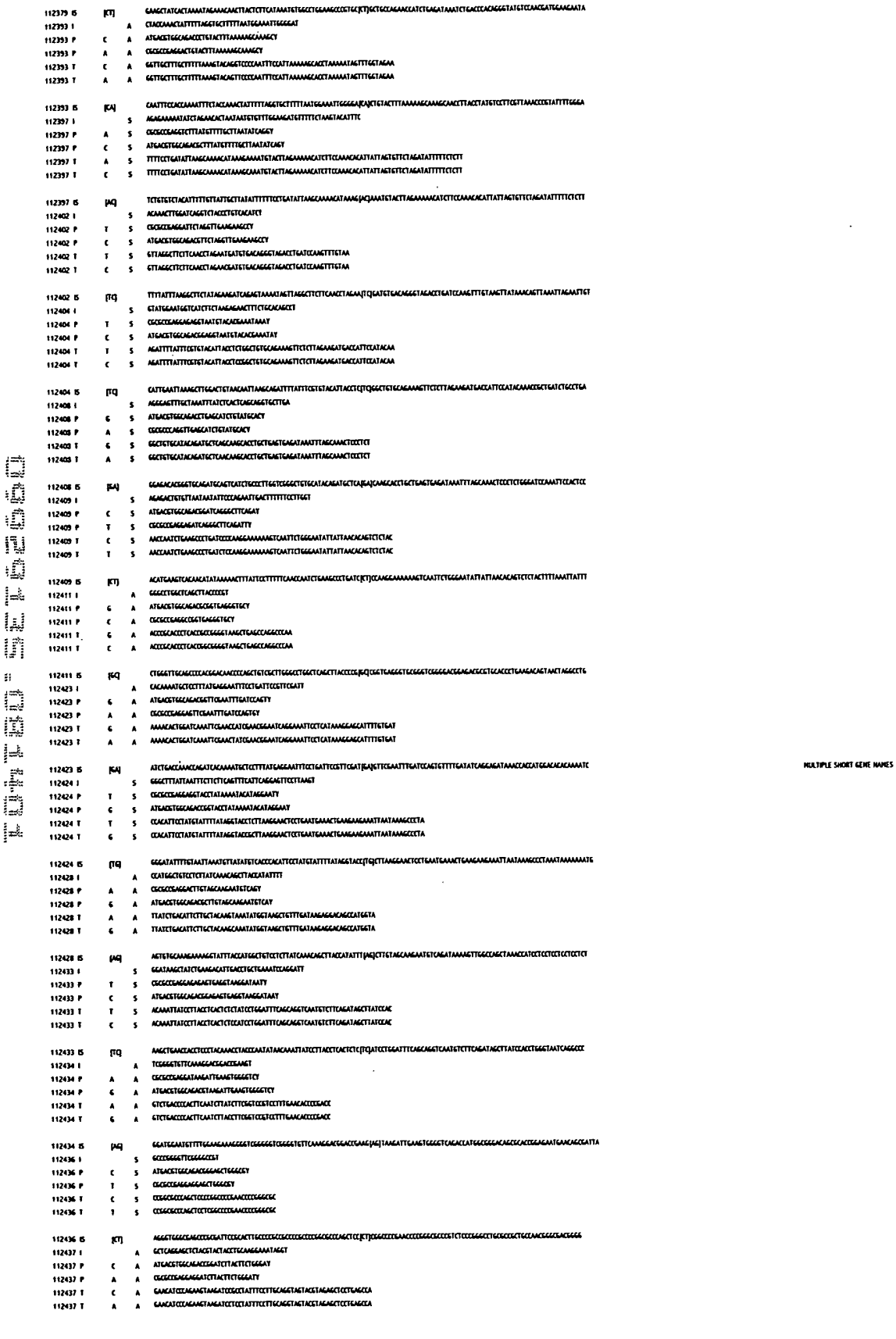


FIGURE 129G

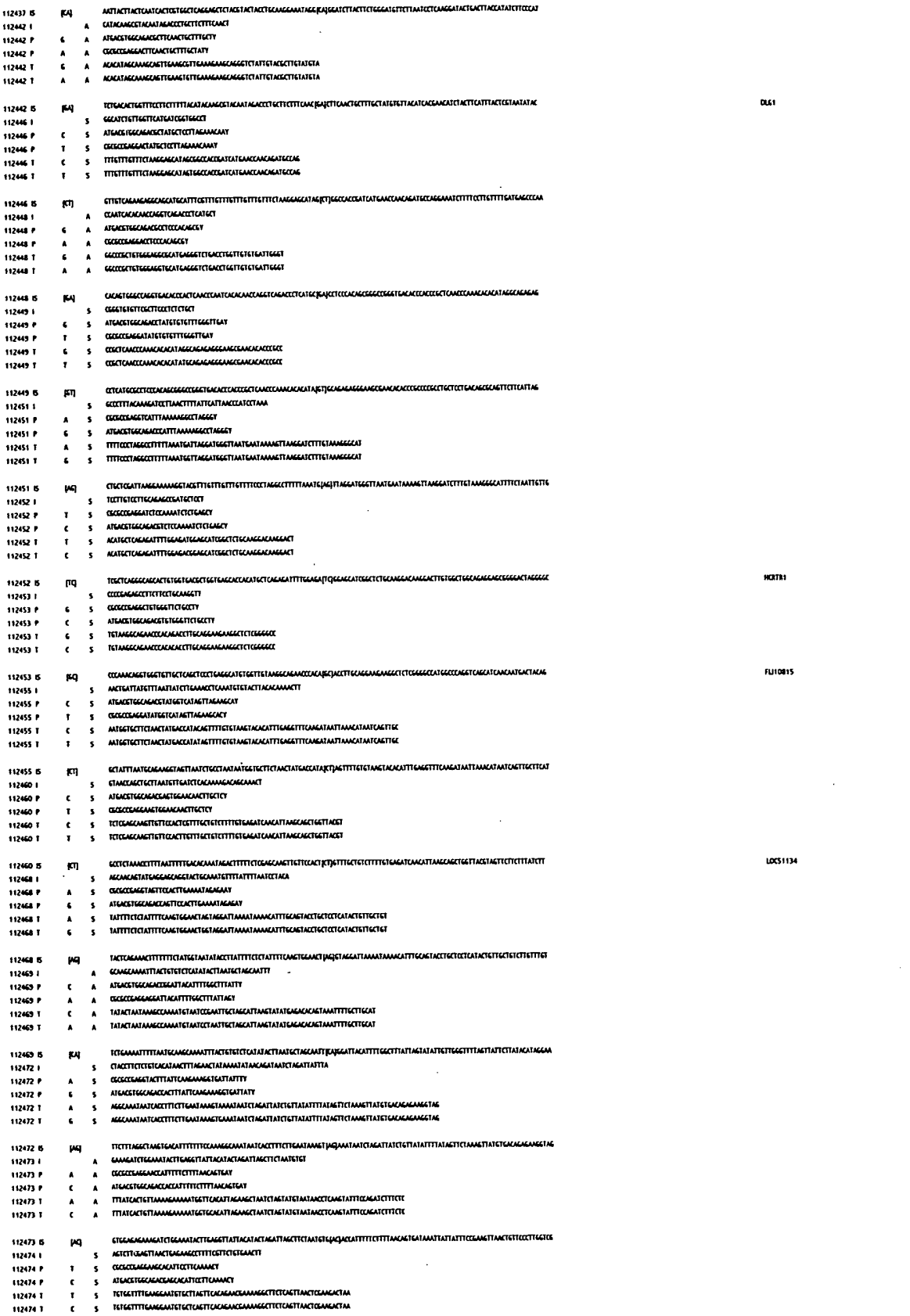
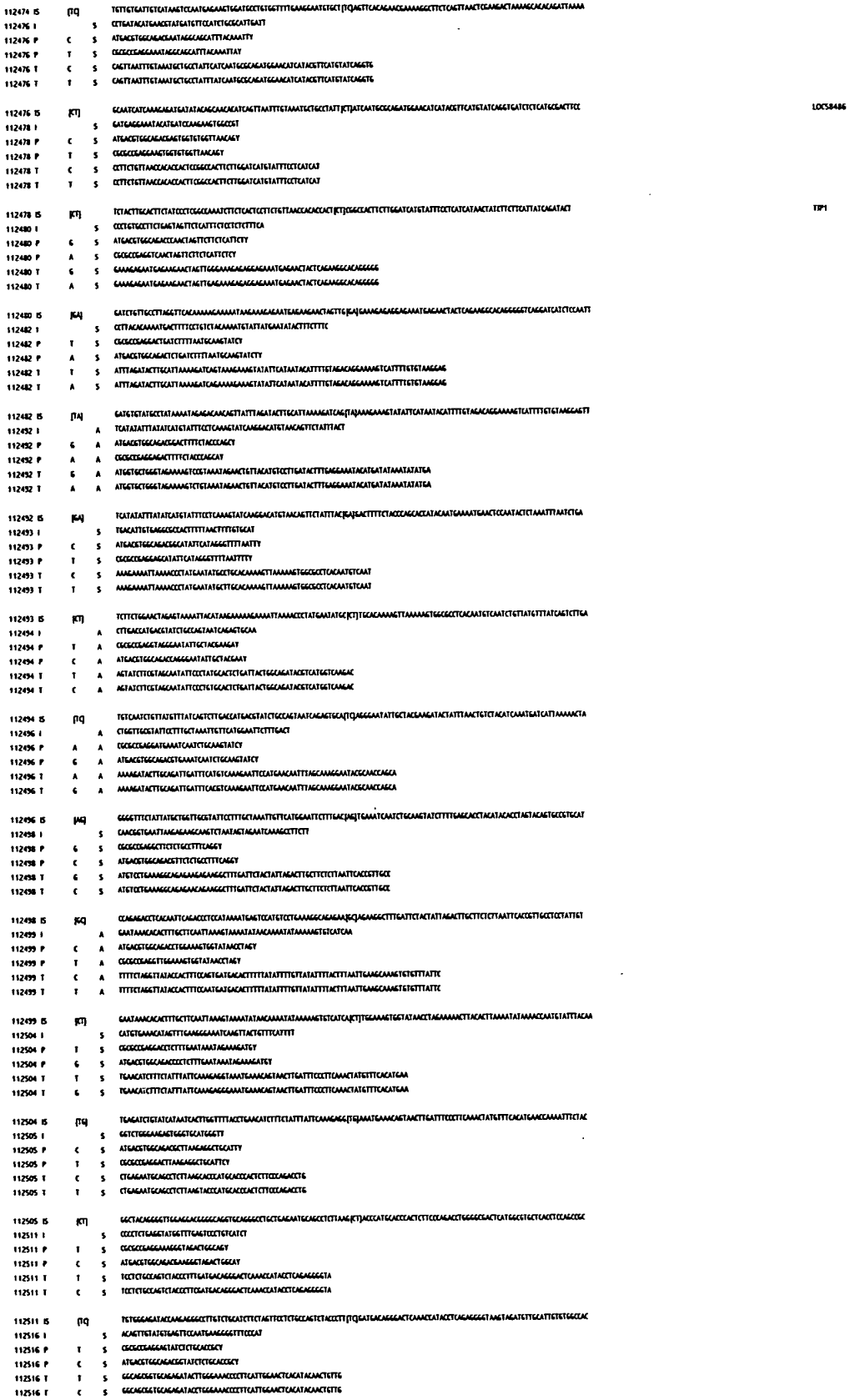
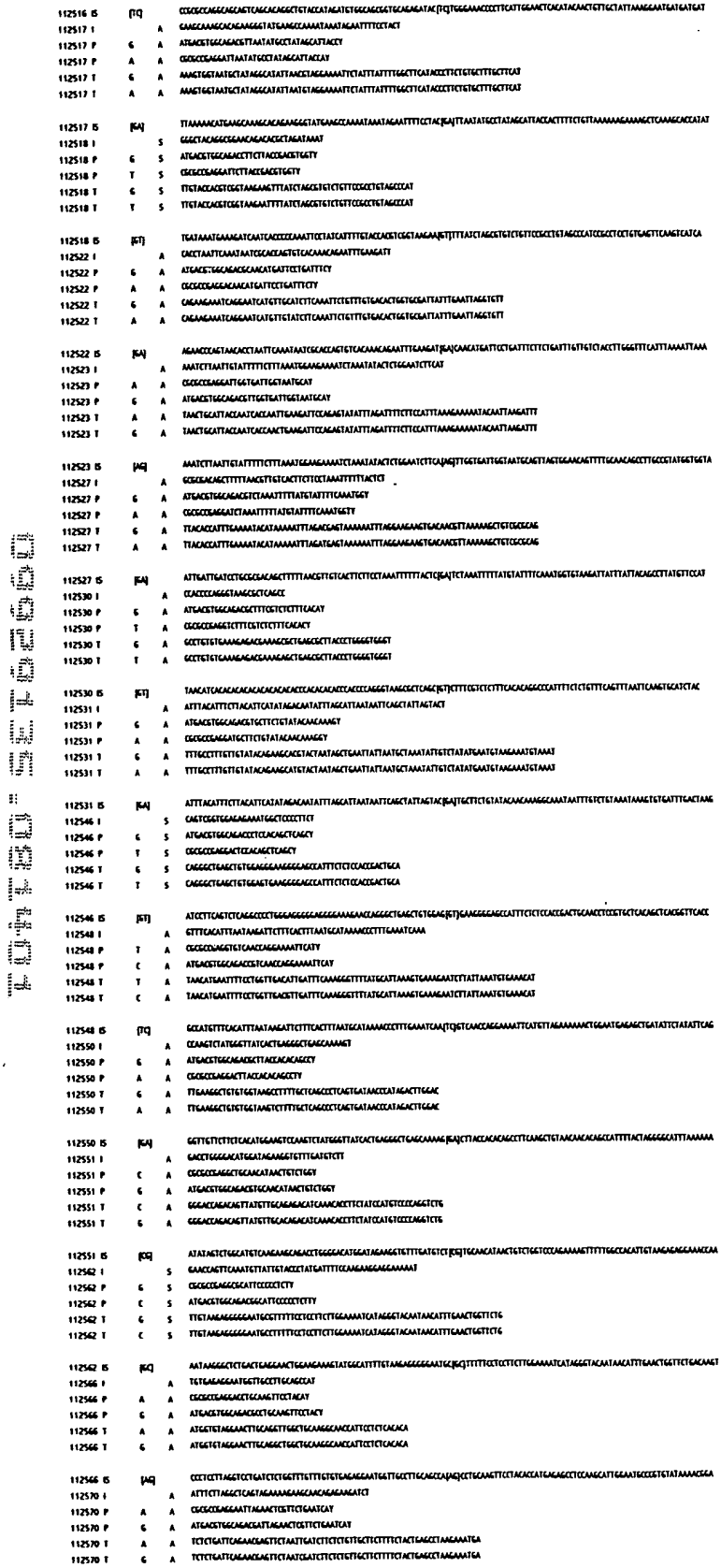


FIGURE 129G





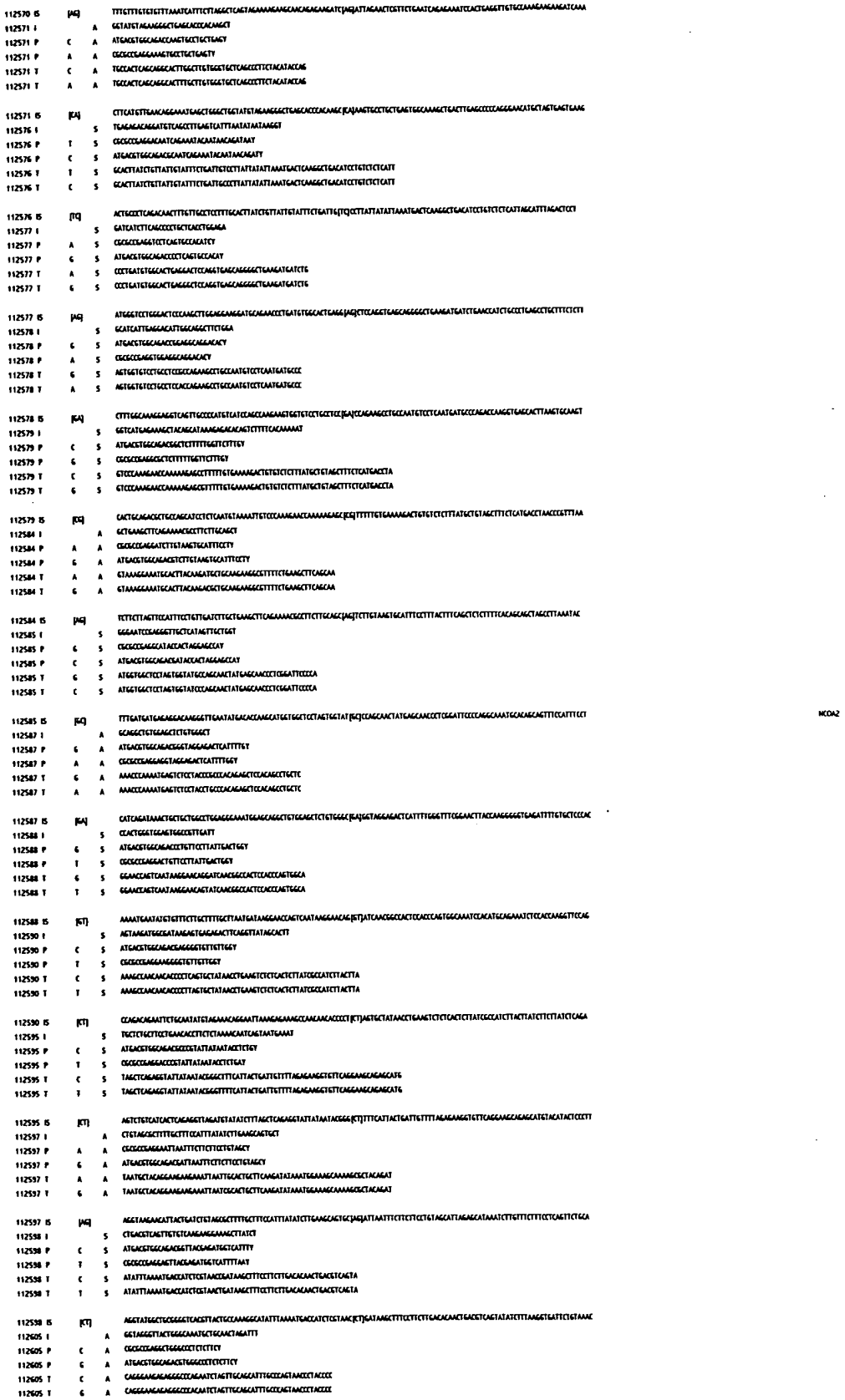


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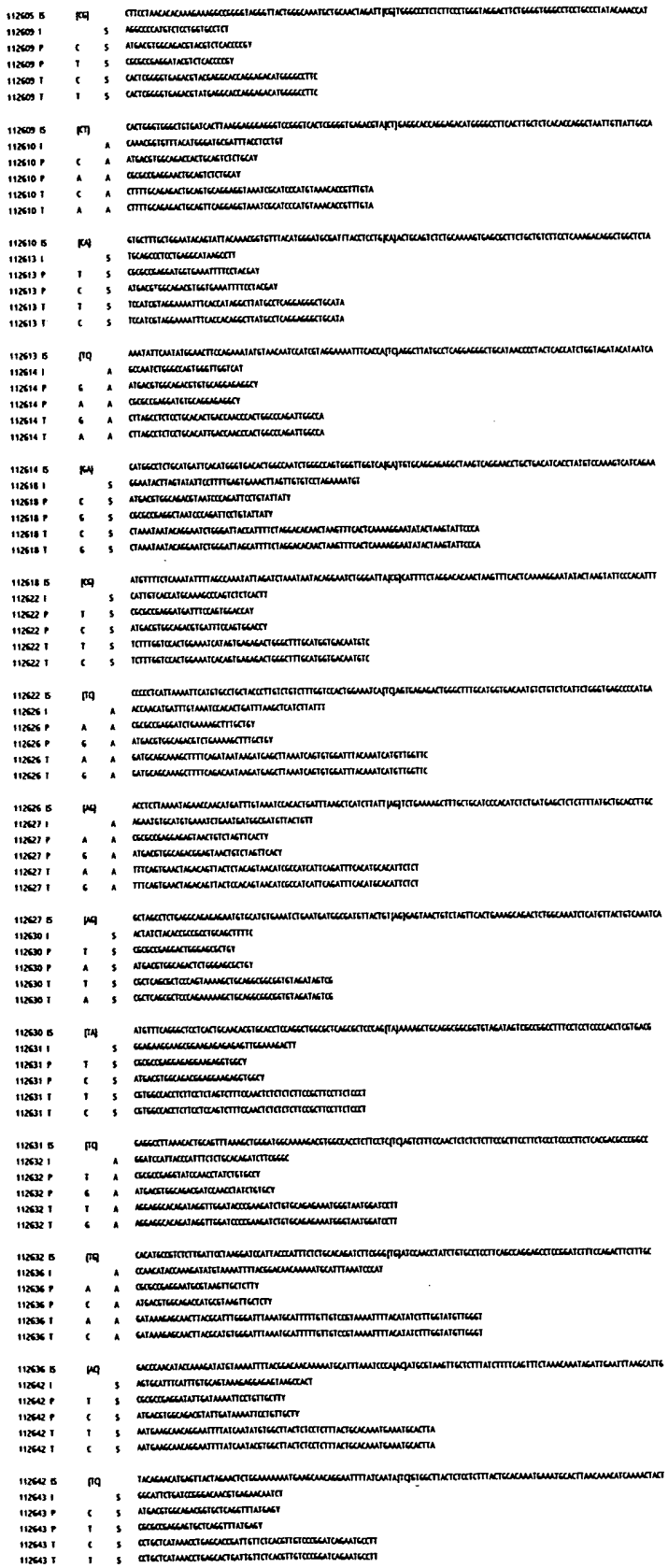
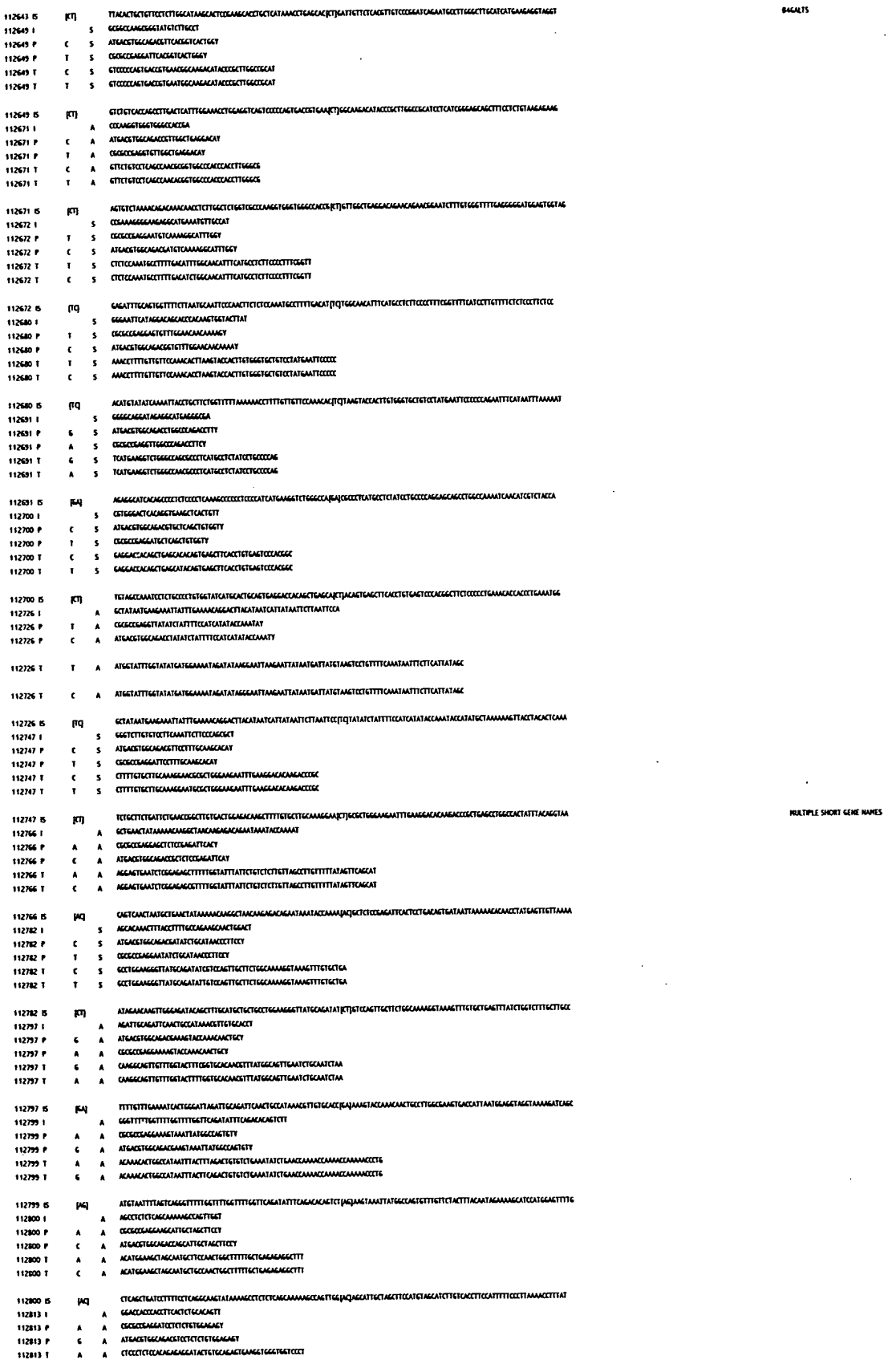
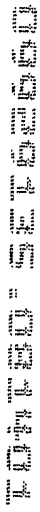


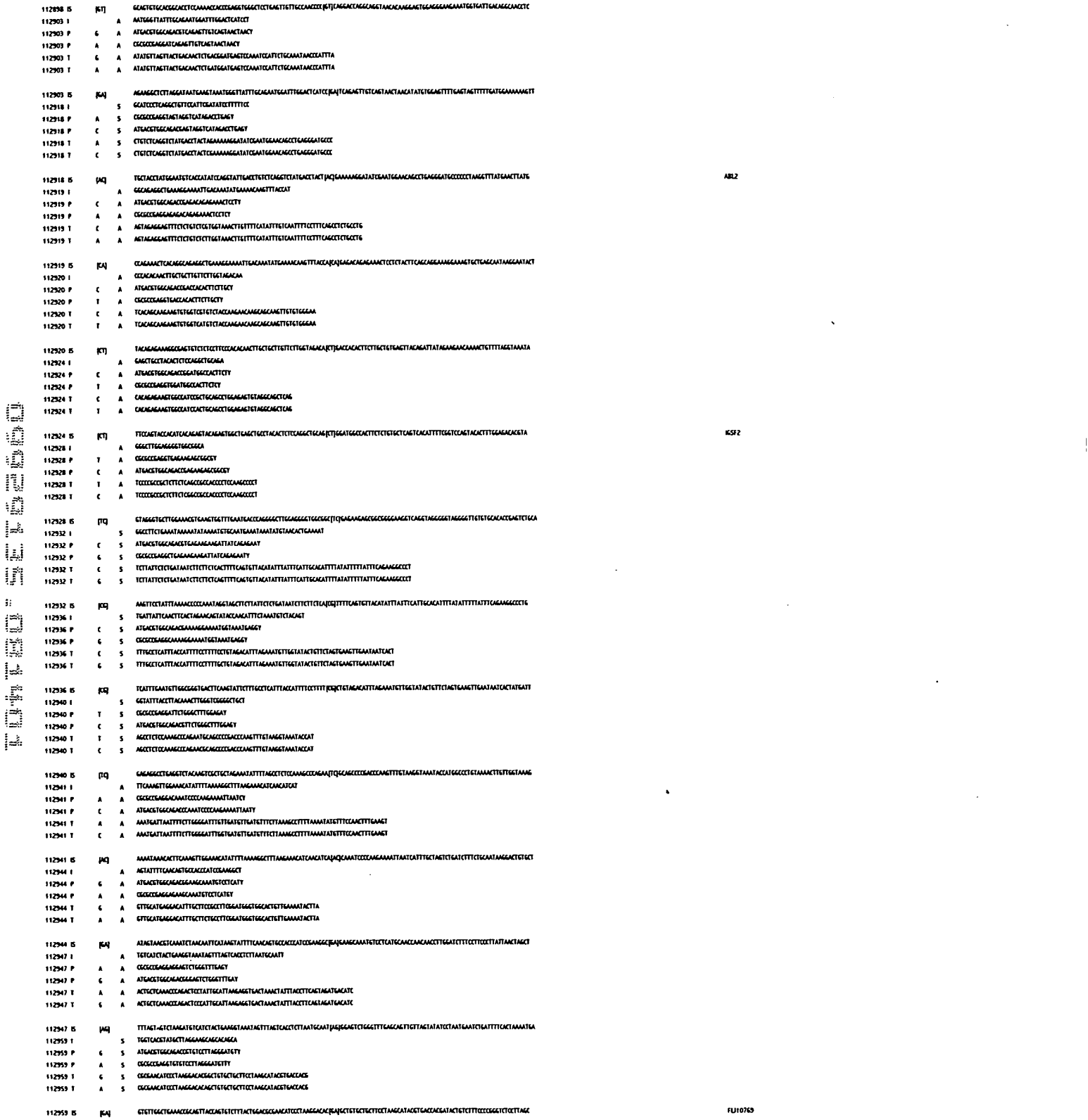
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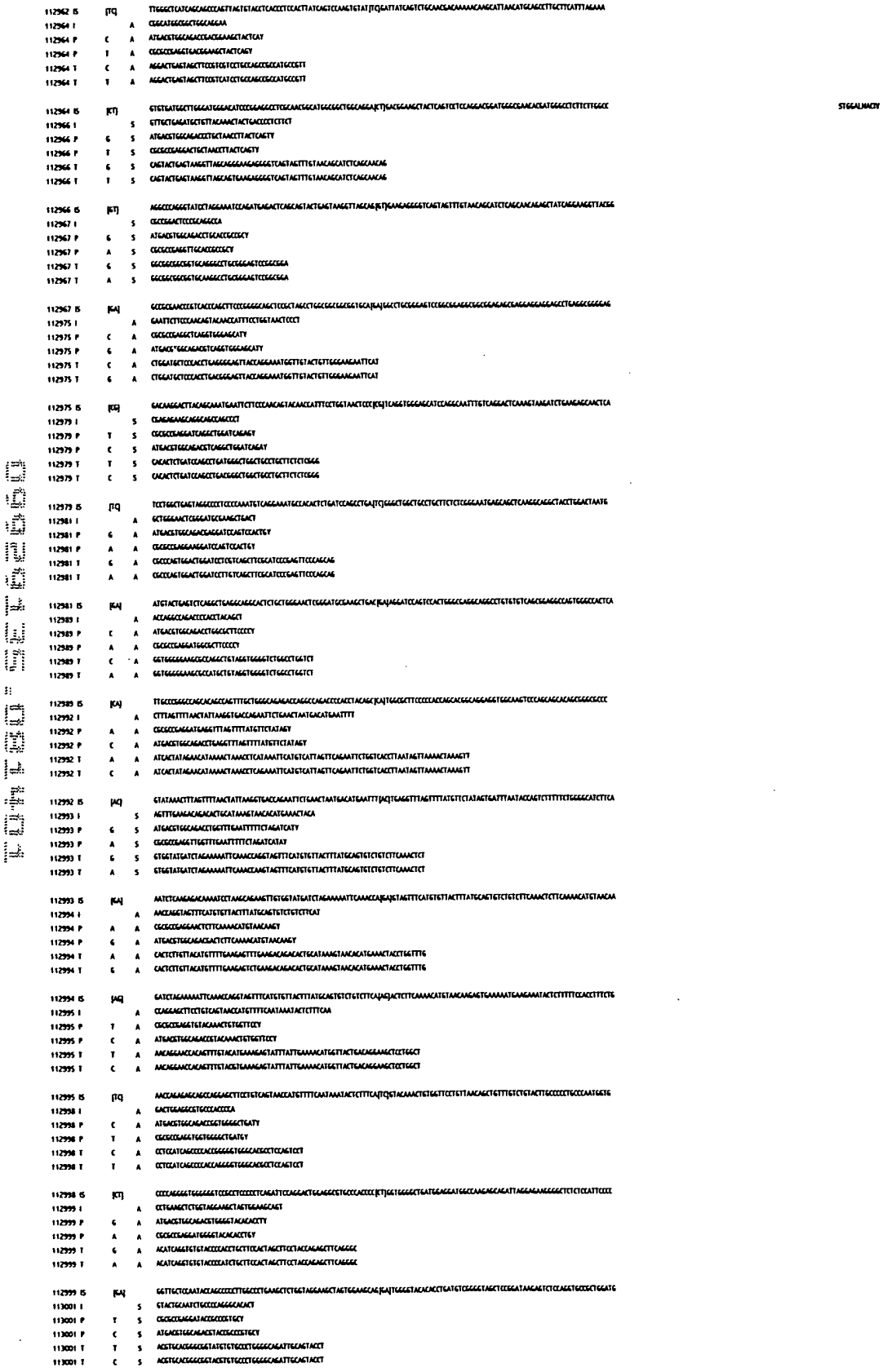
















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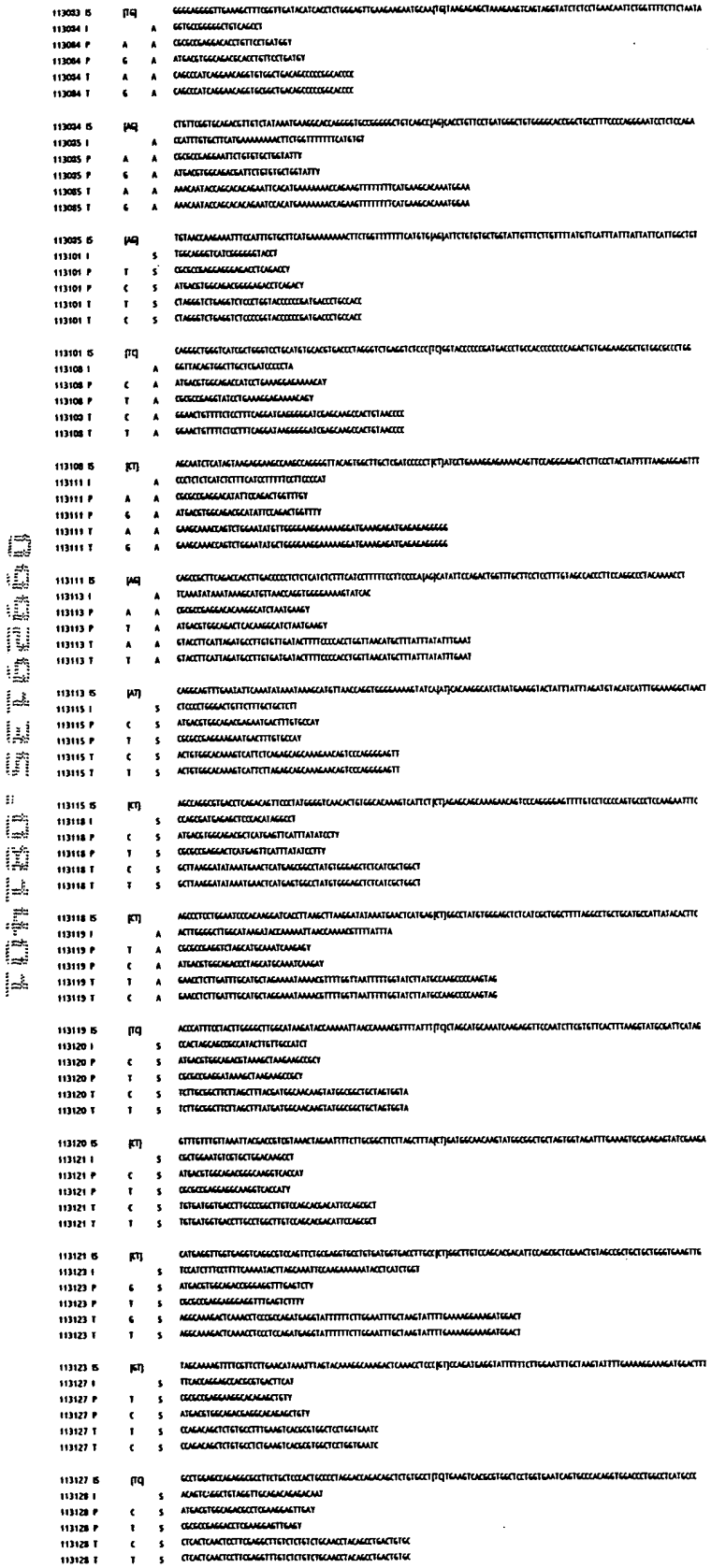


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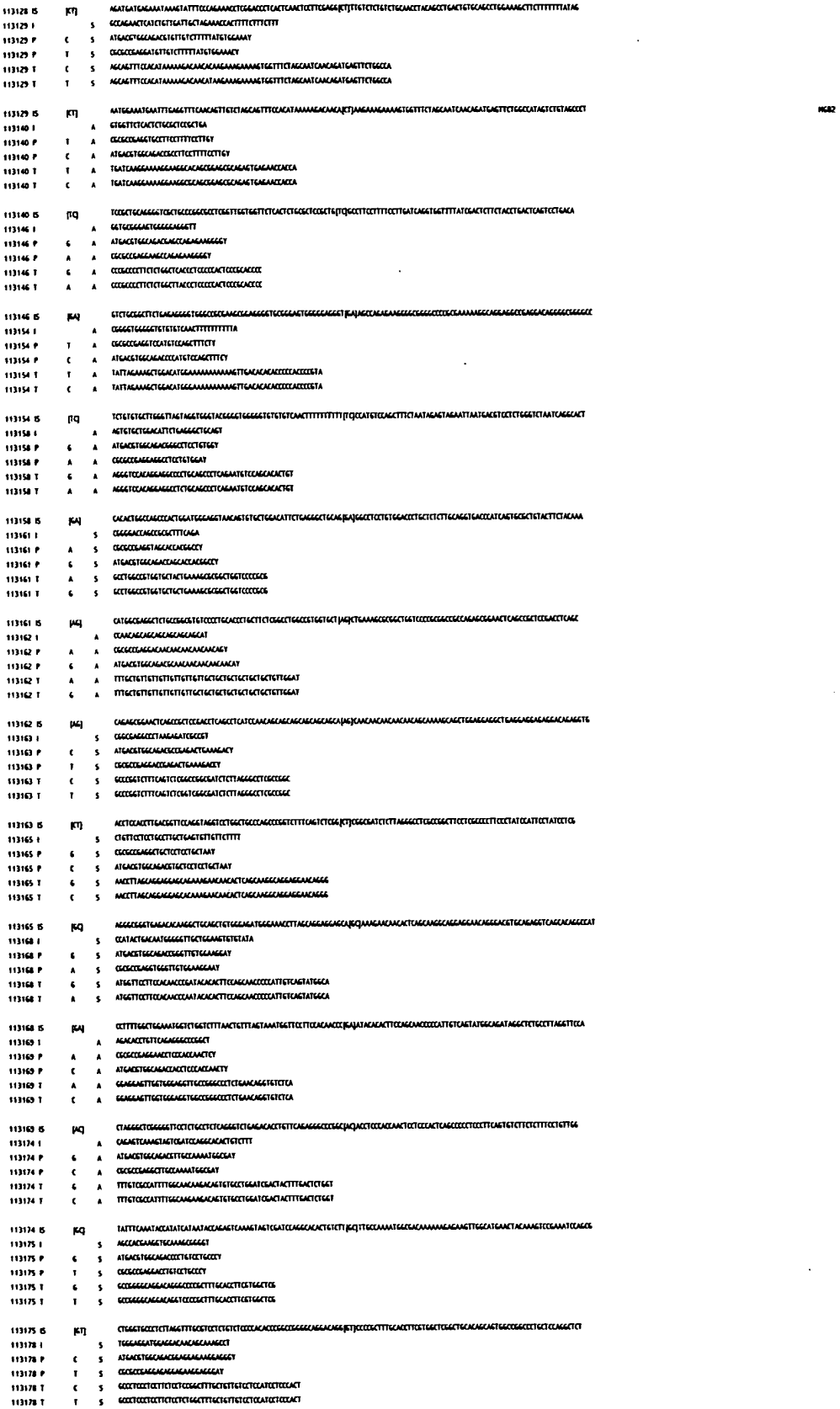


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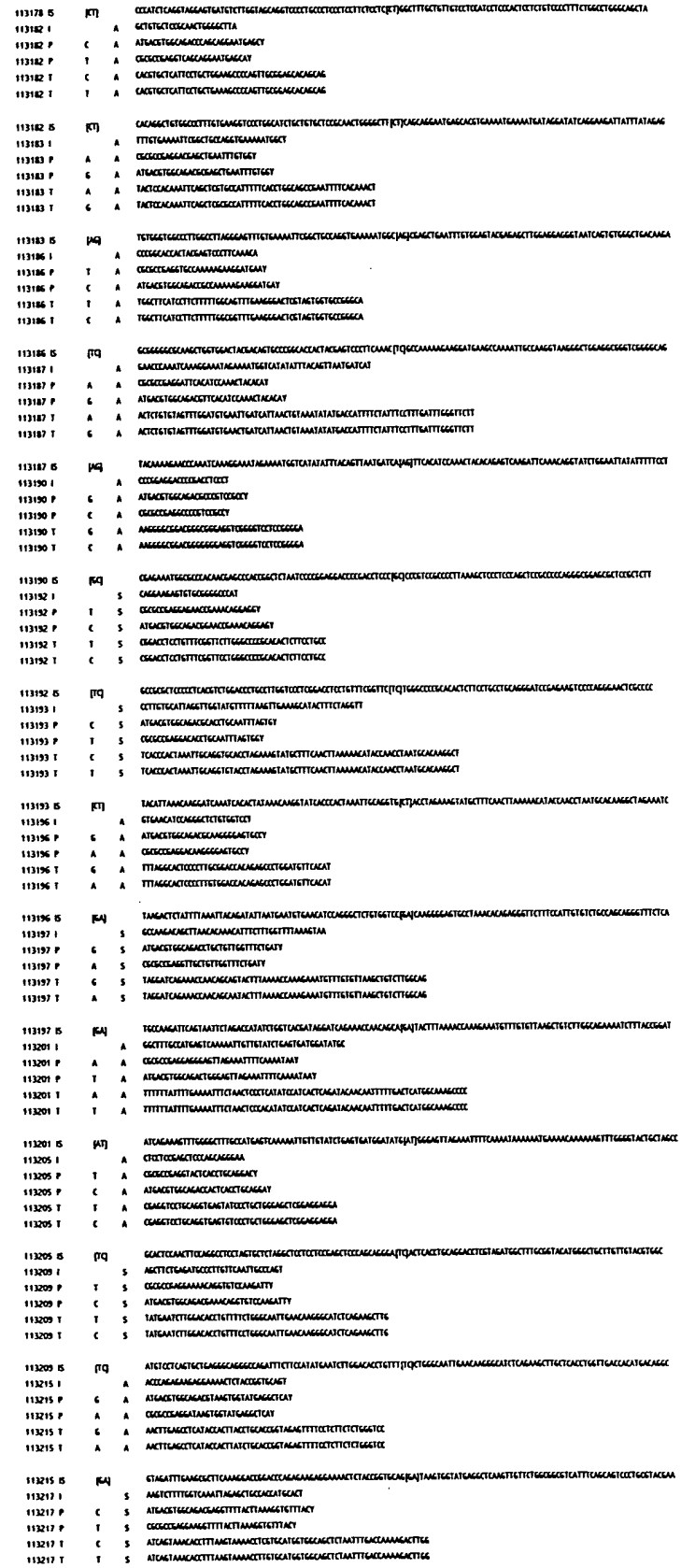
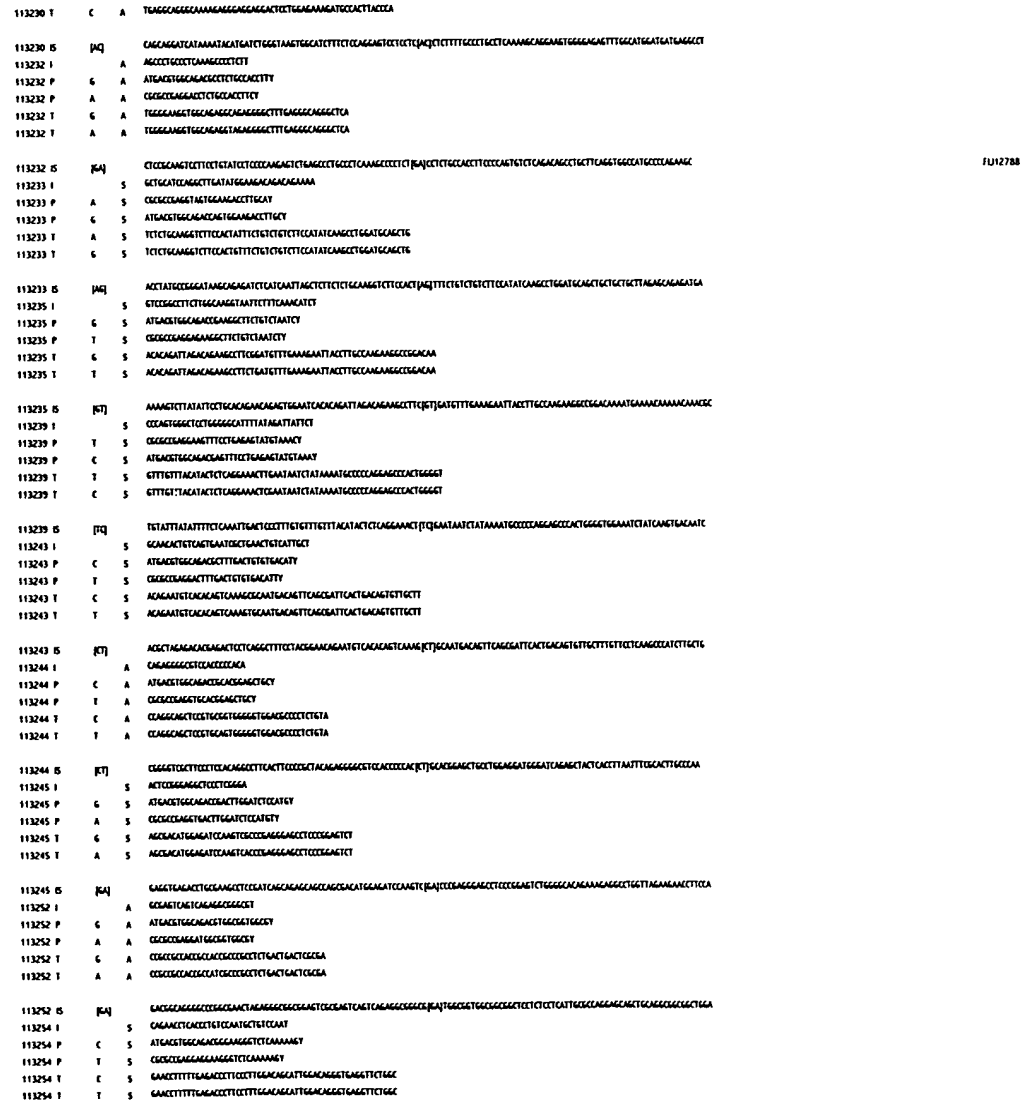
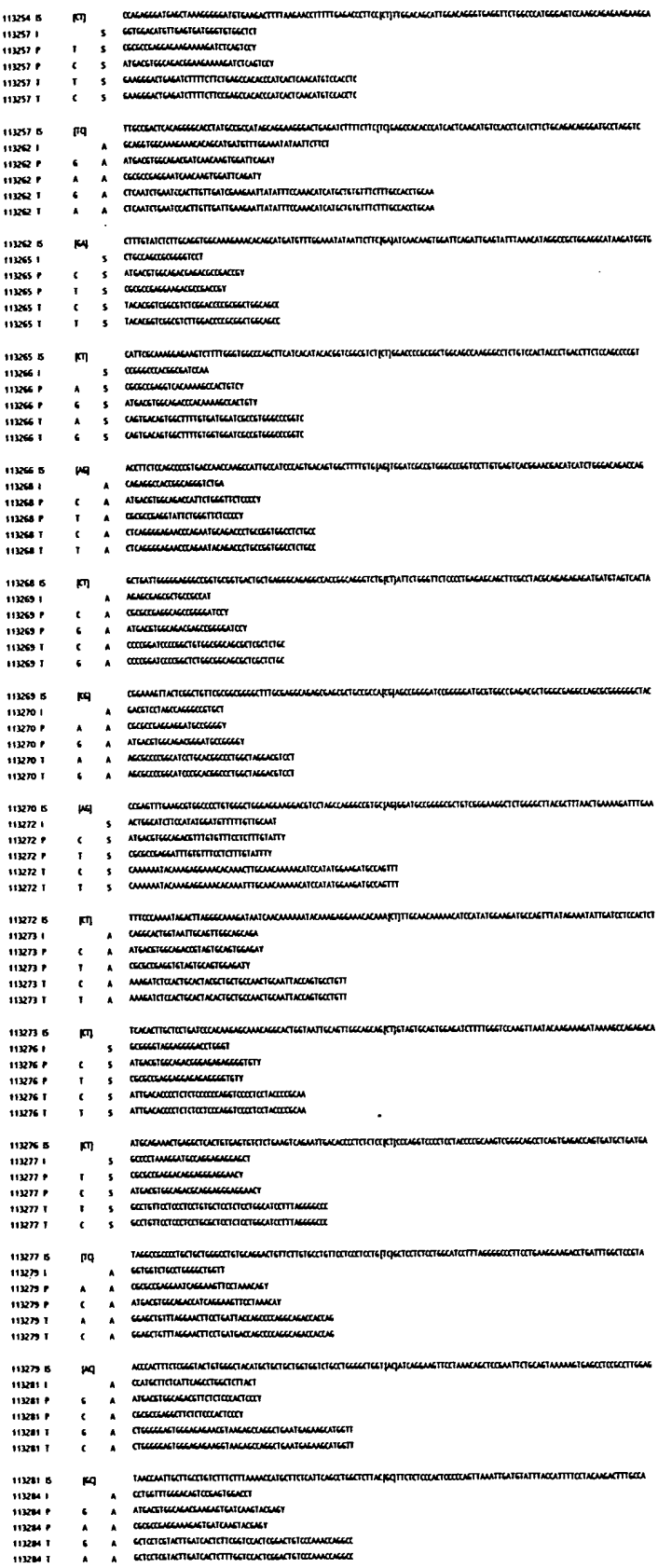
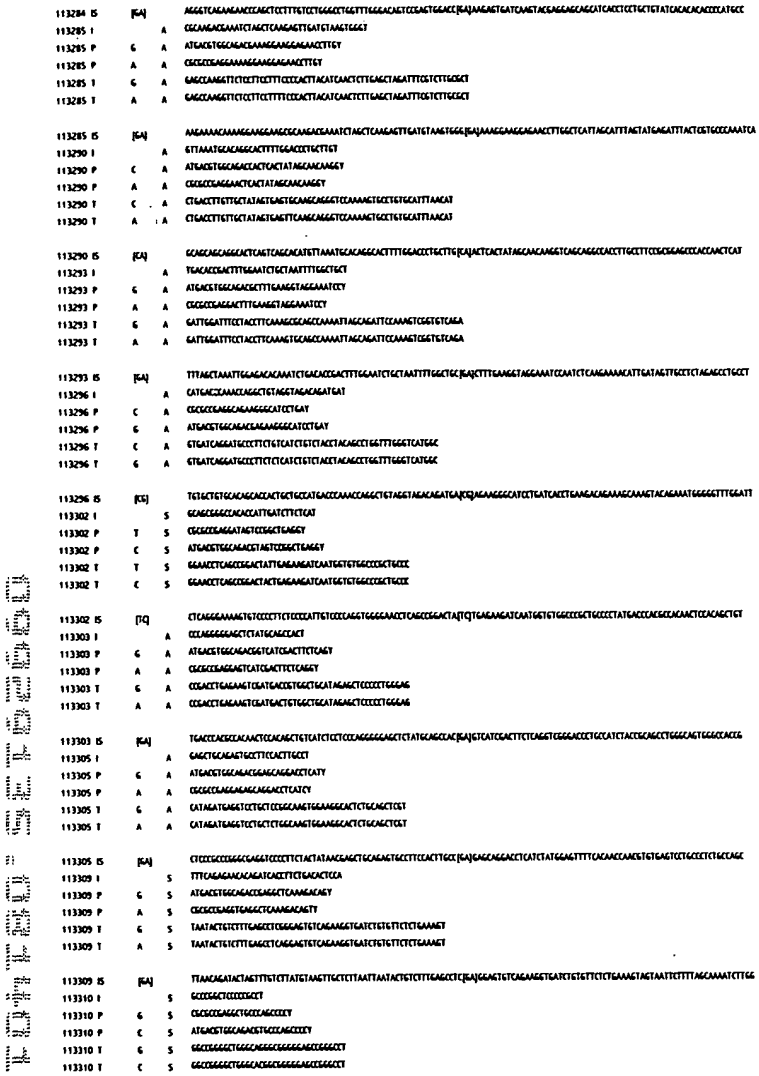


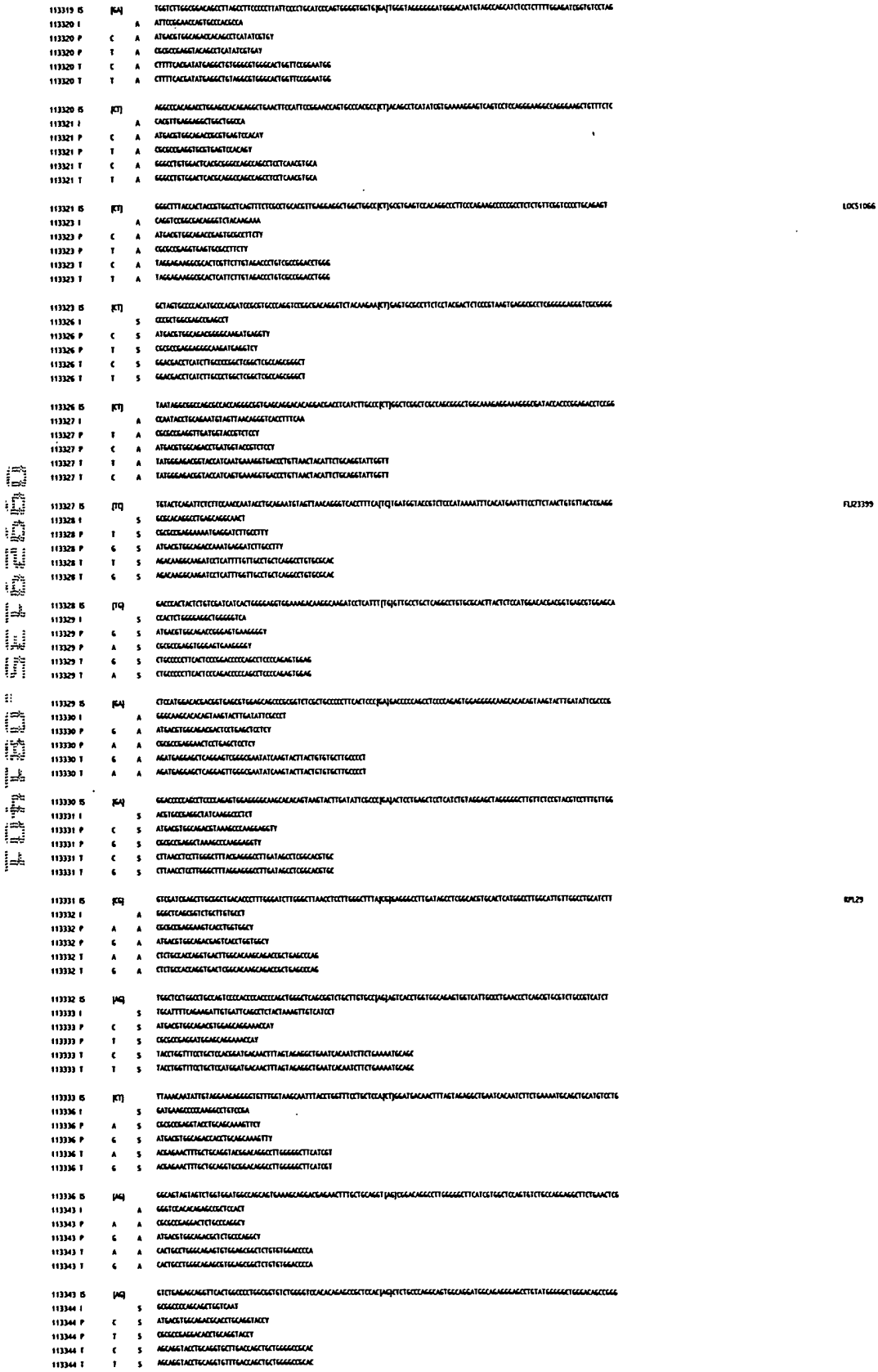
FIGURE 129G











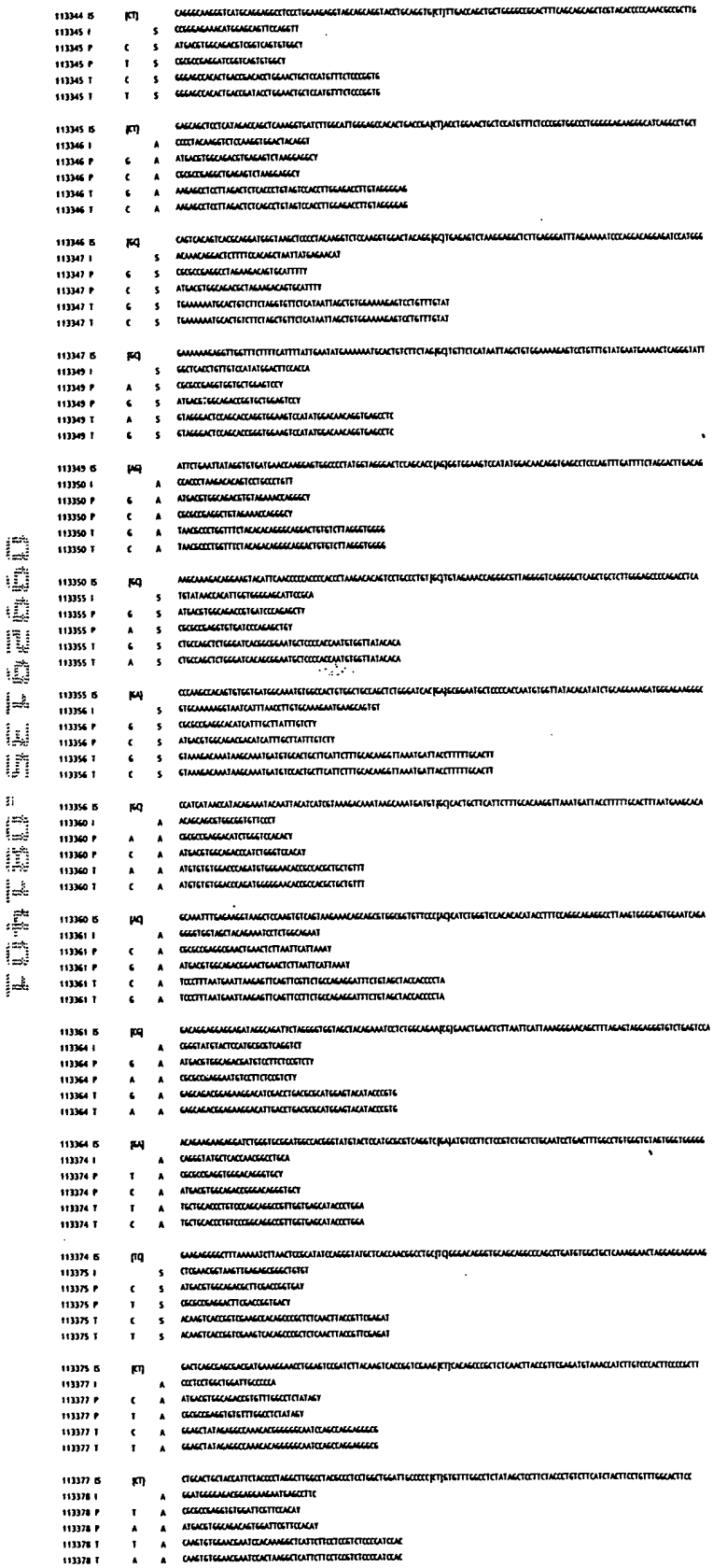
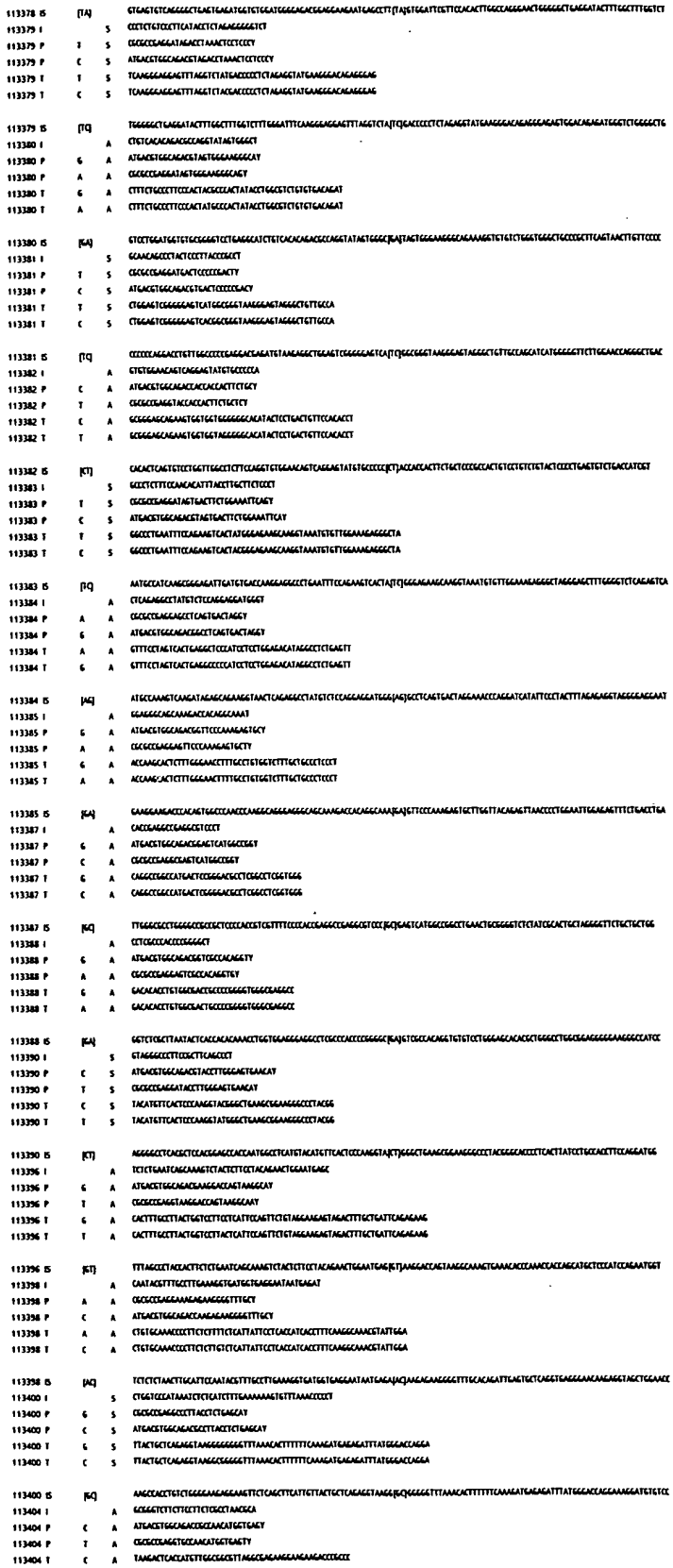
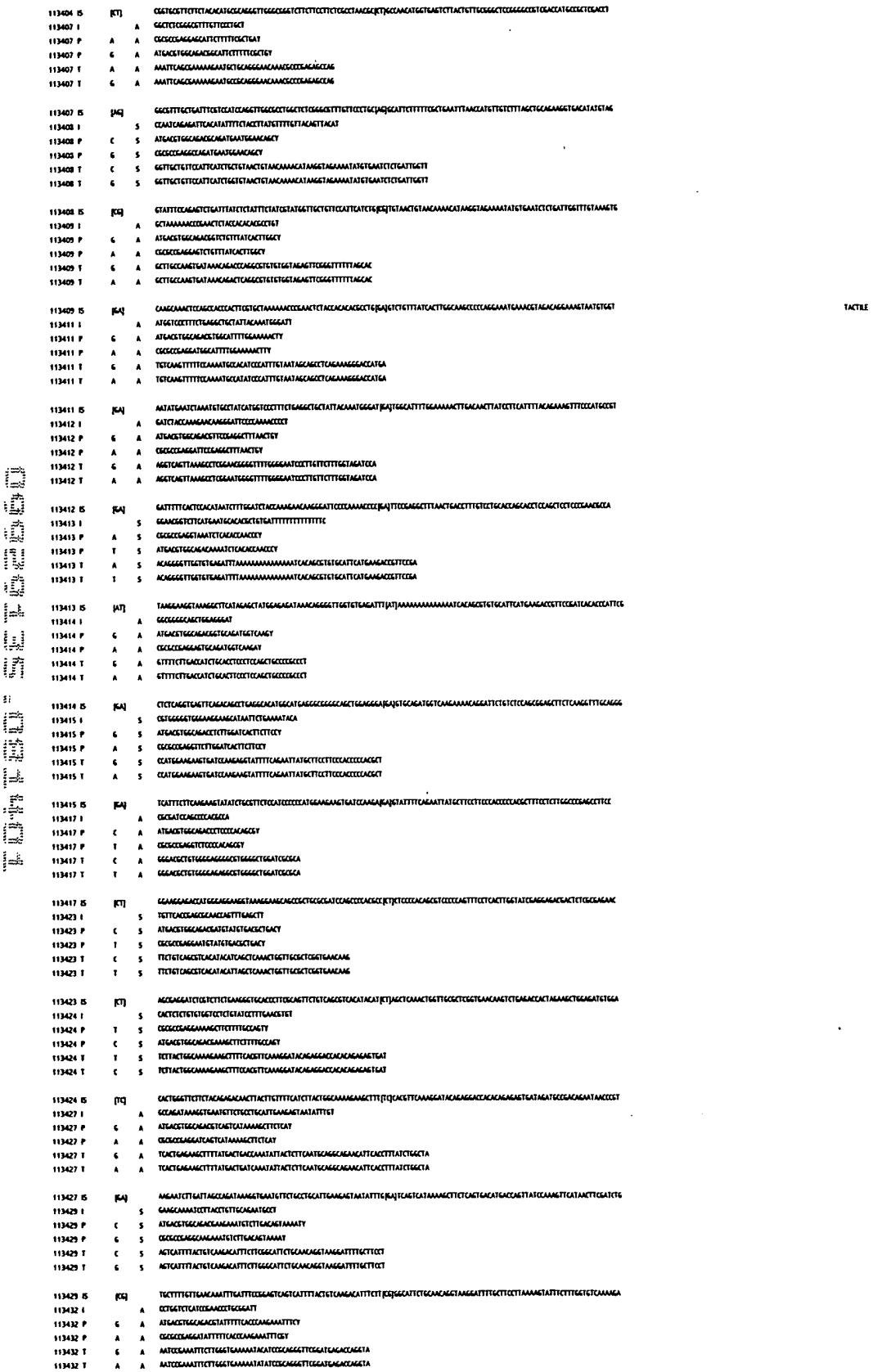
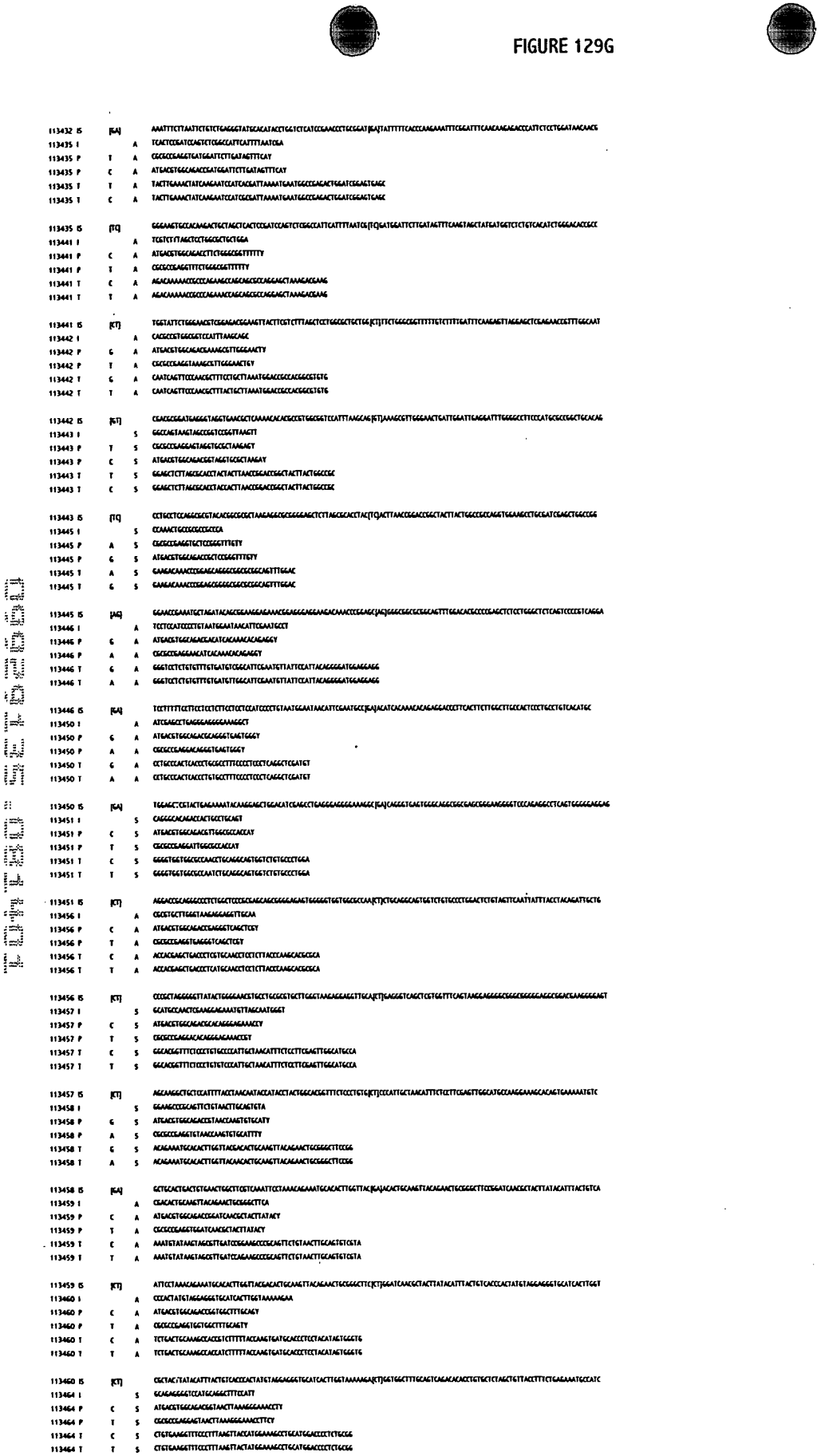
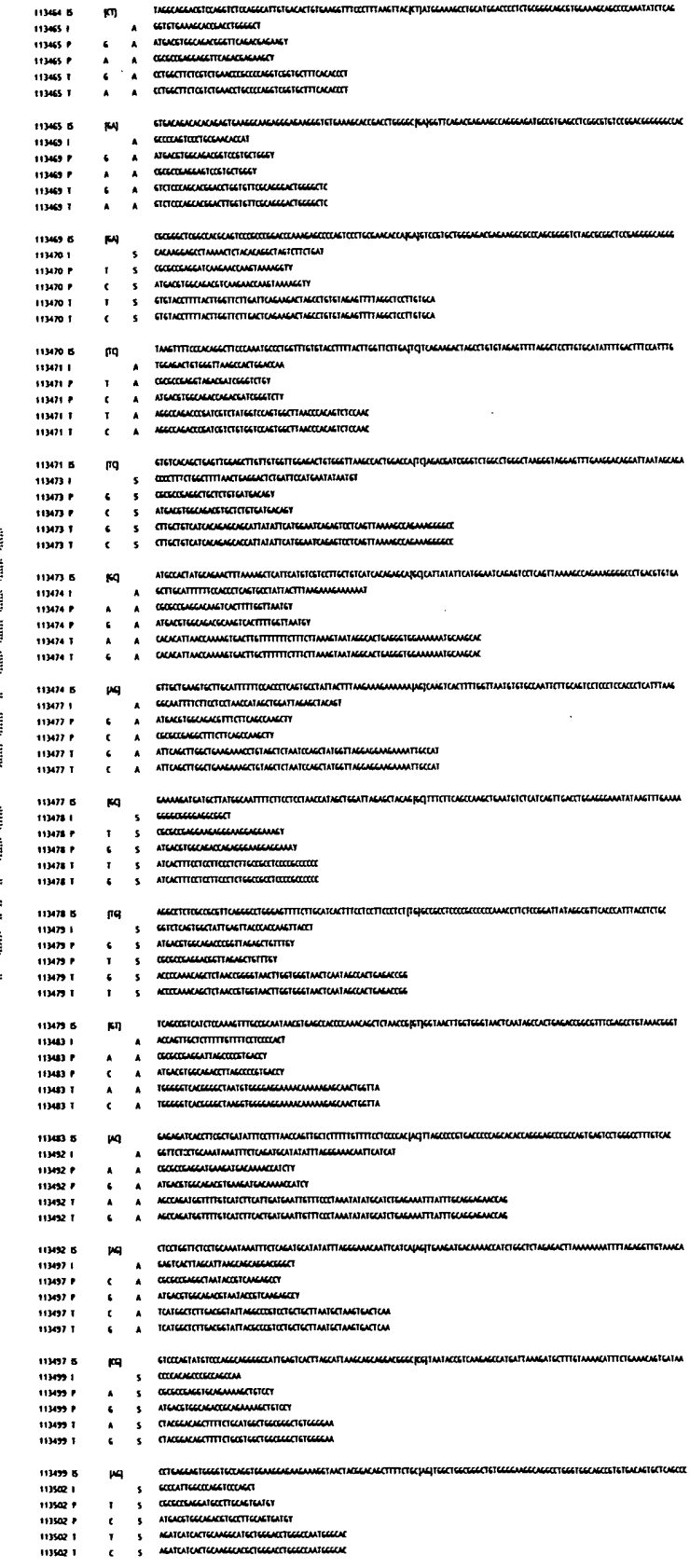


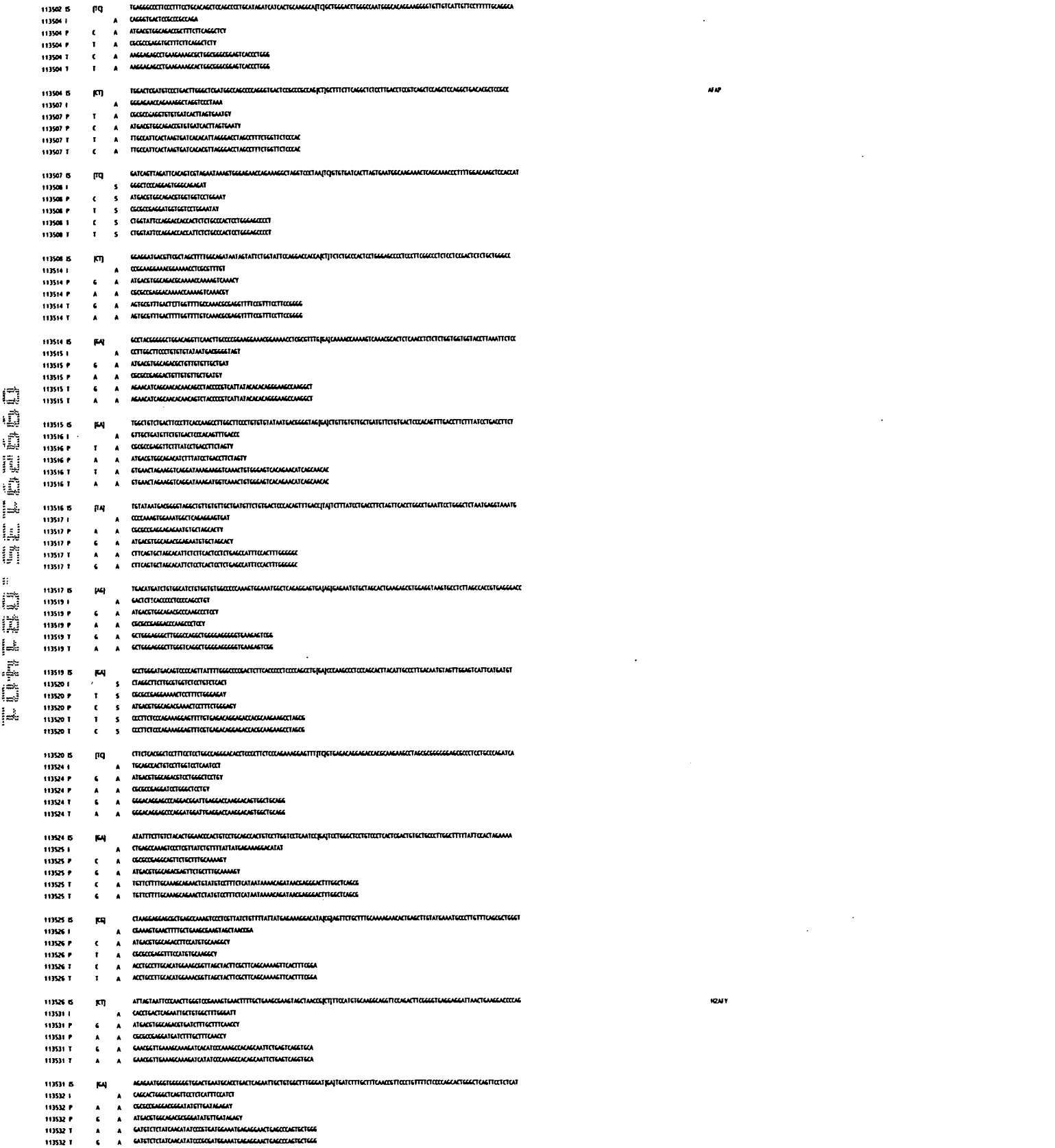
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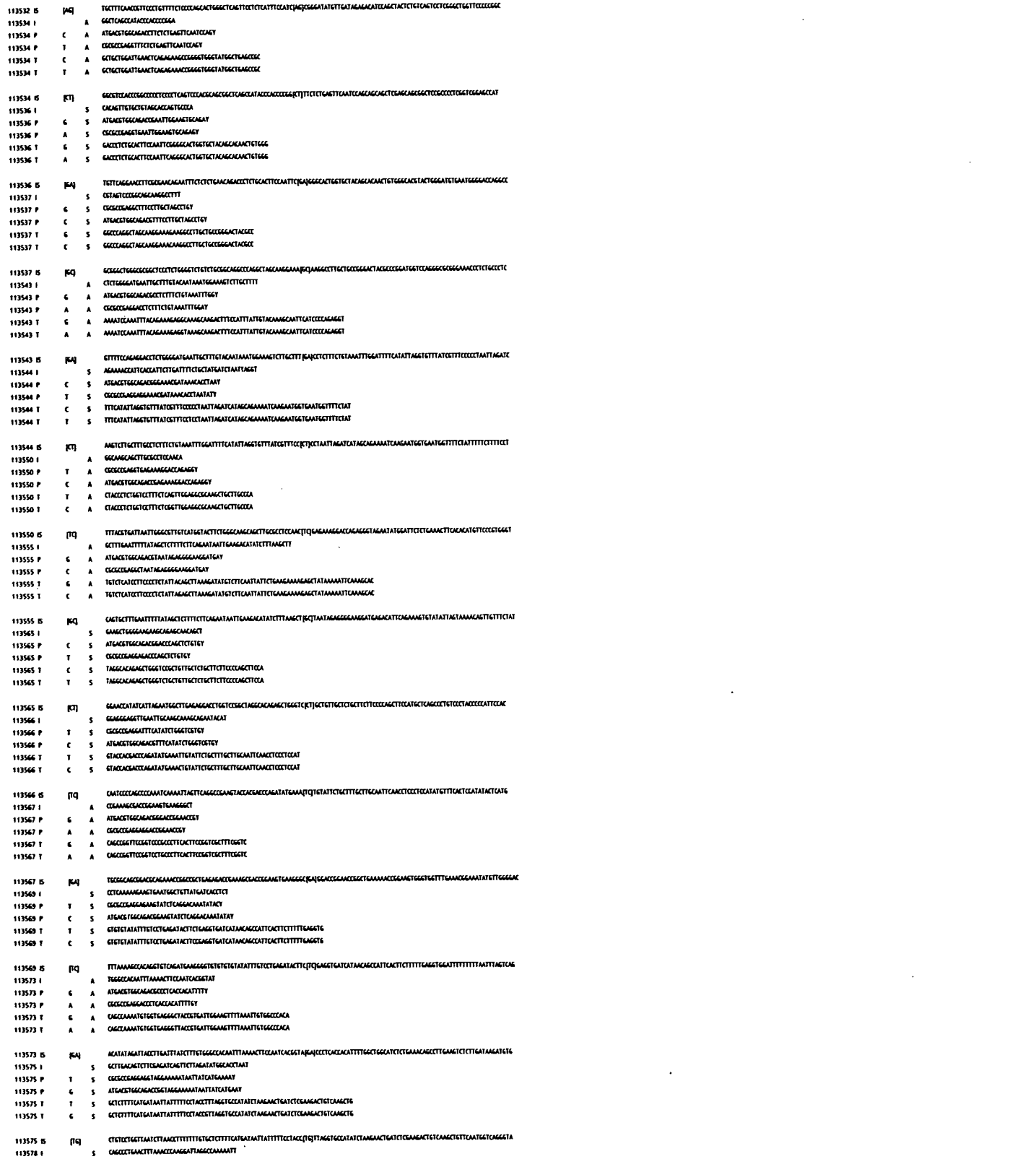


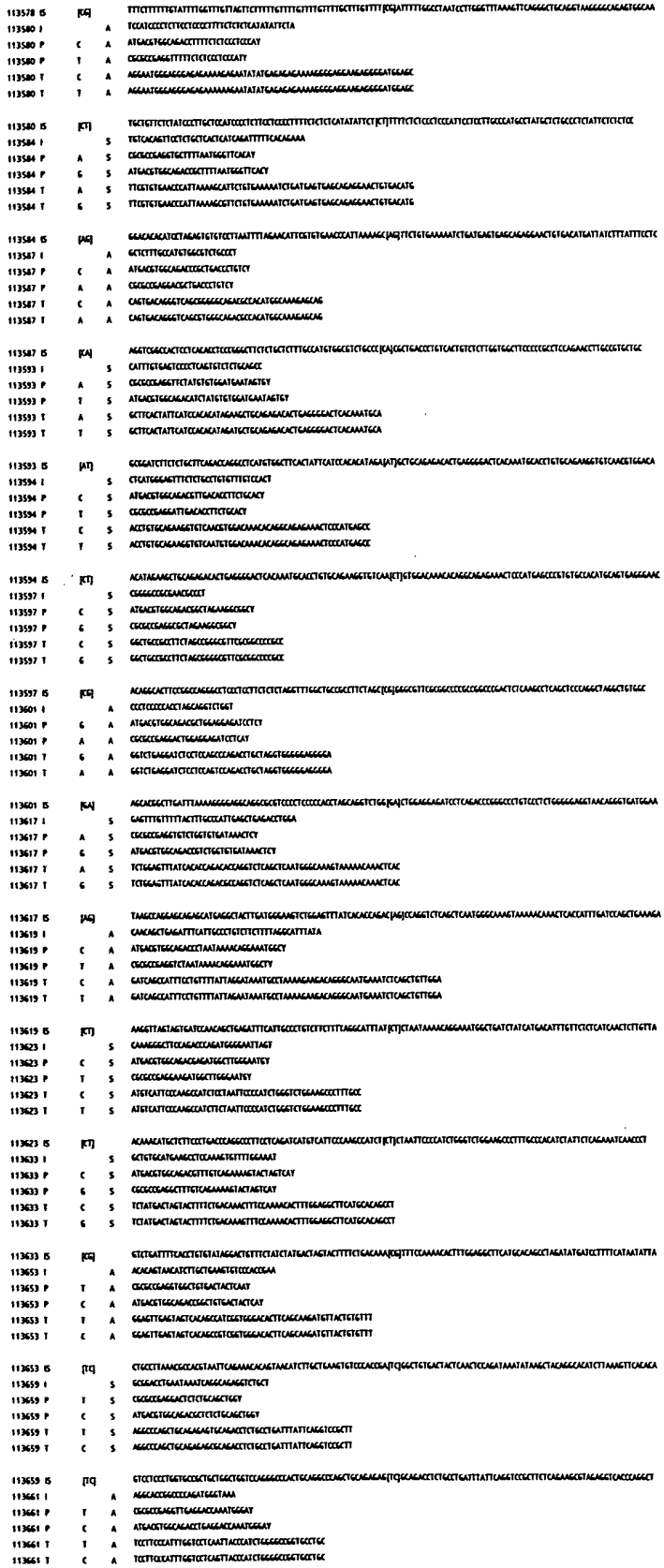


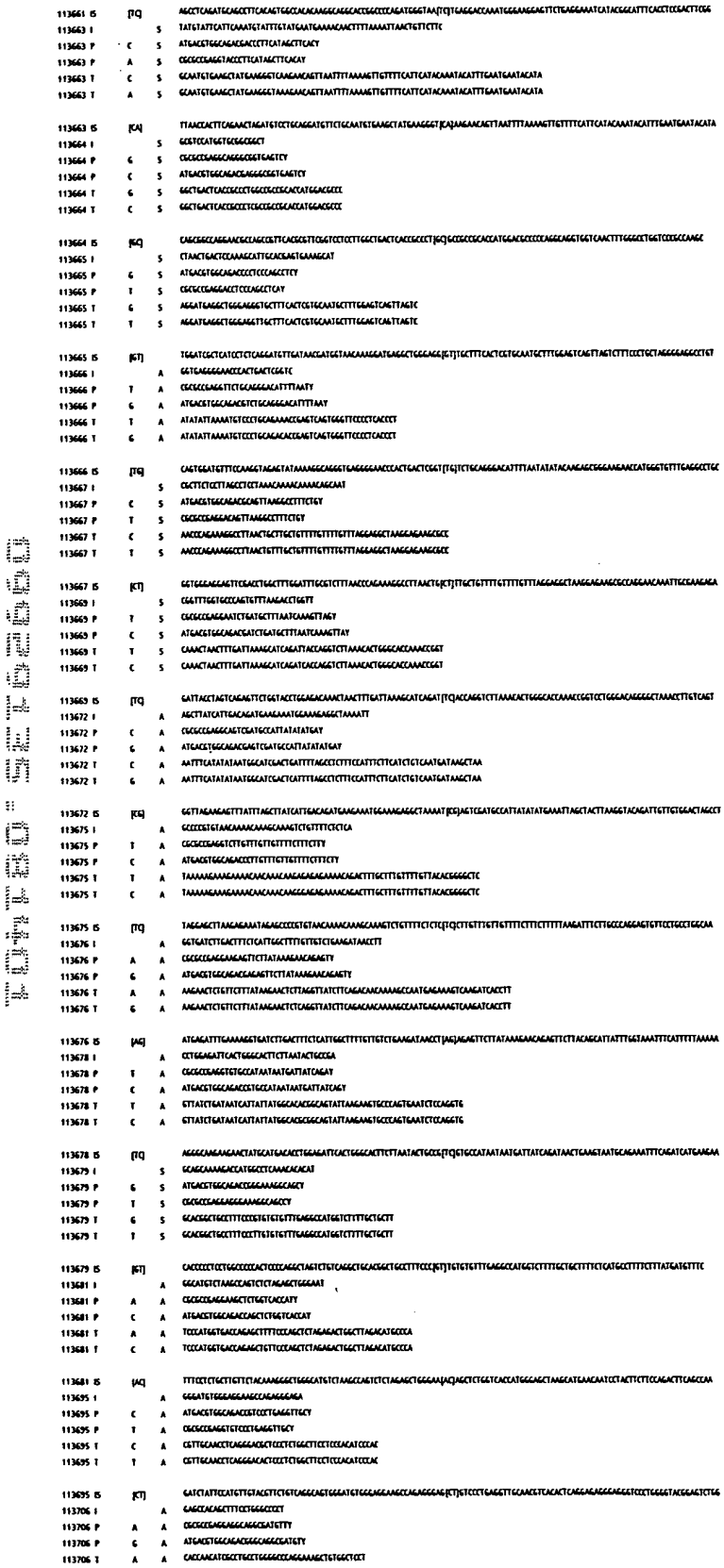


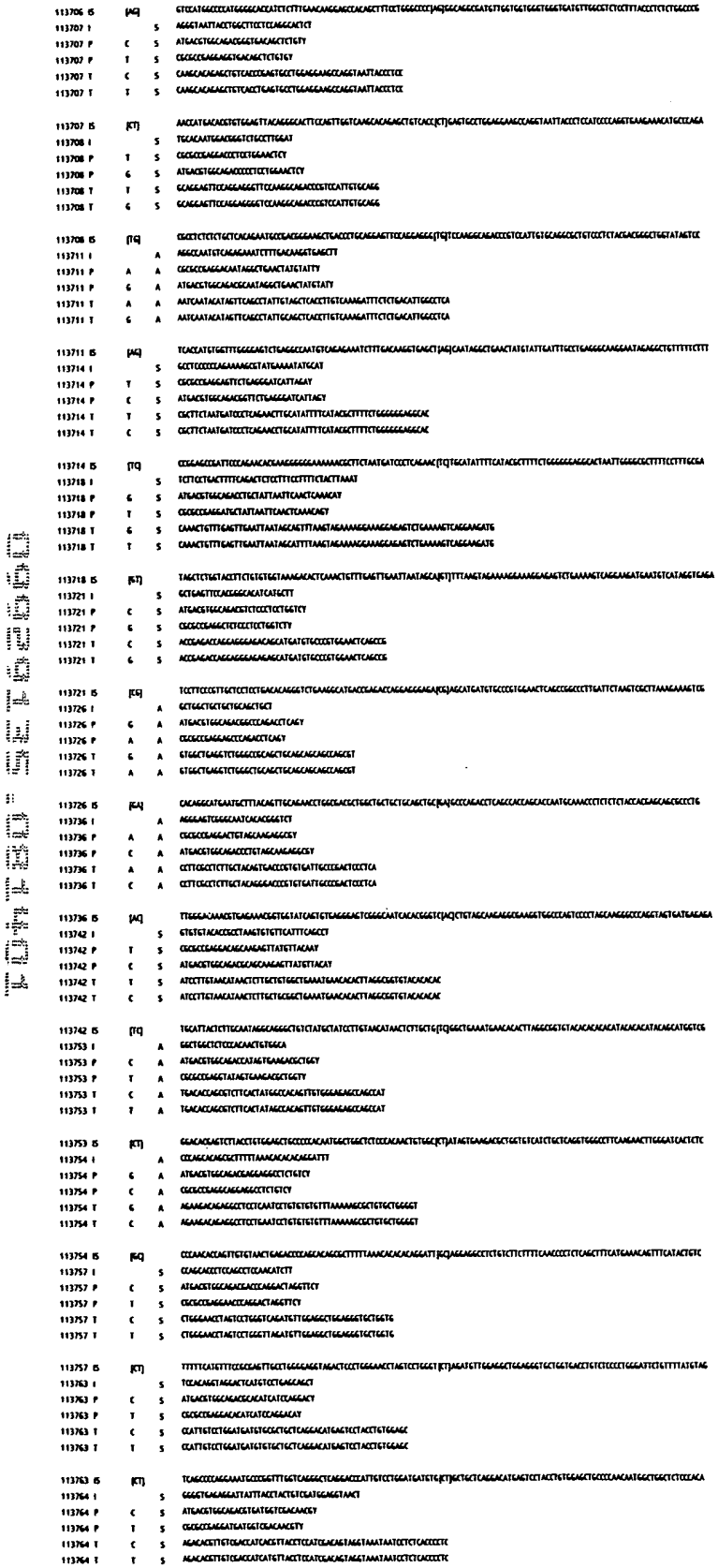


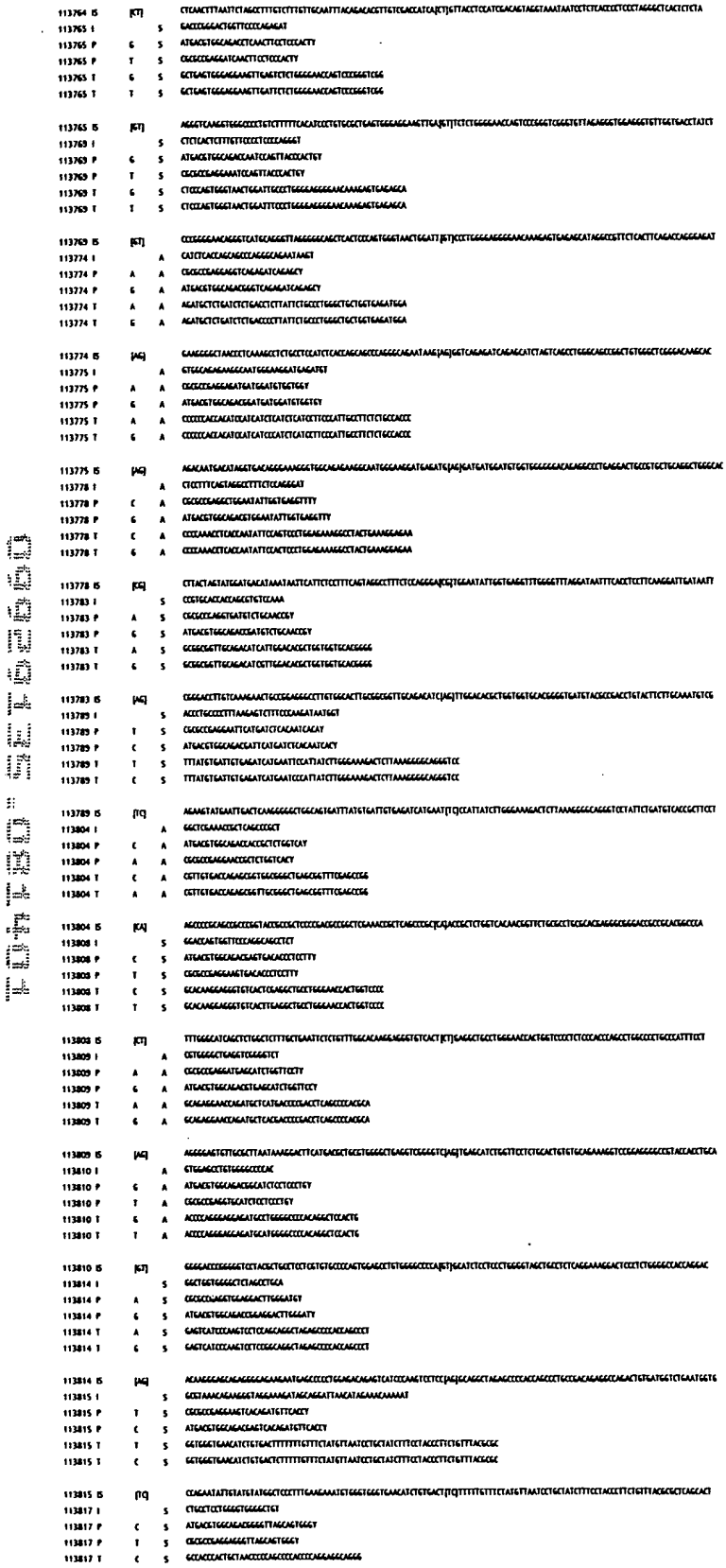












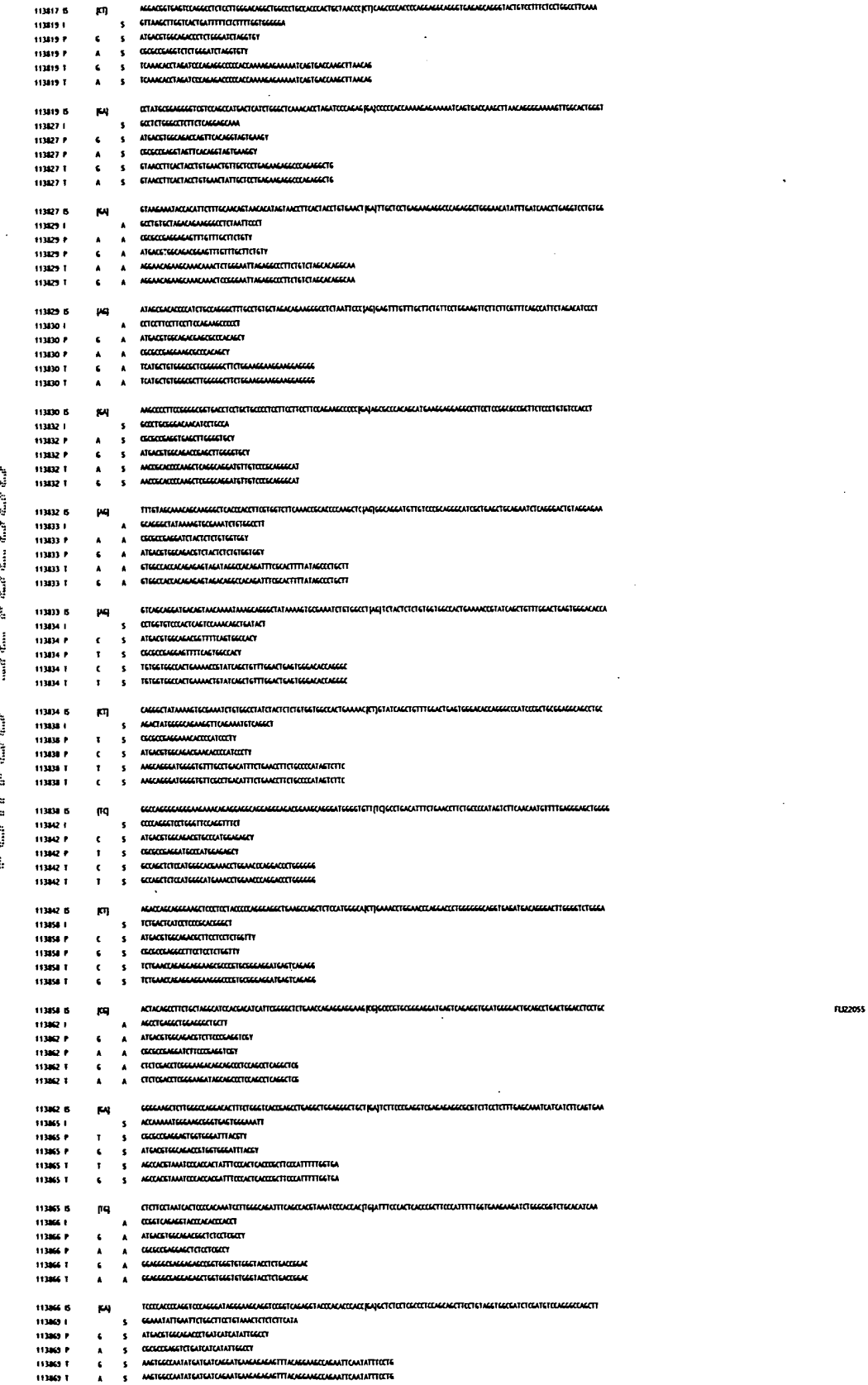
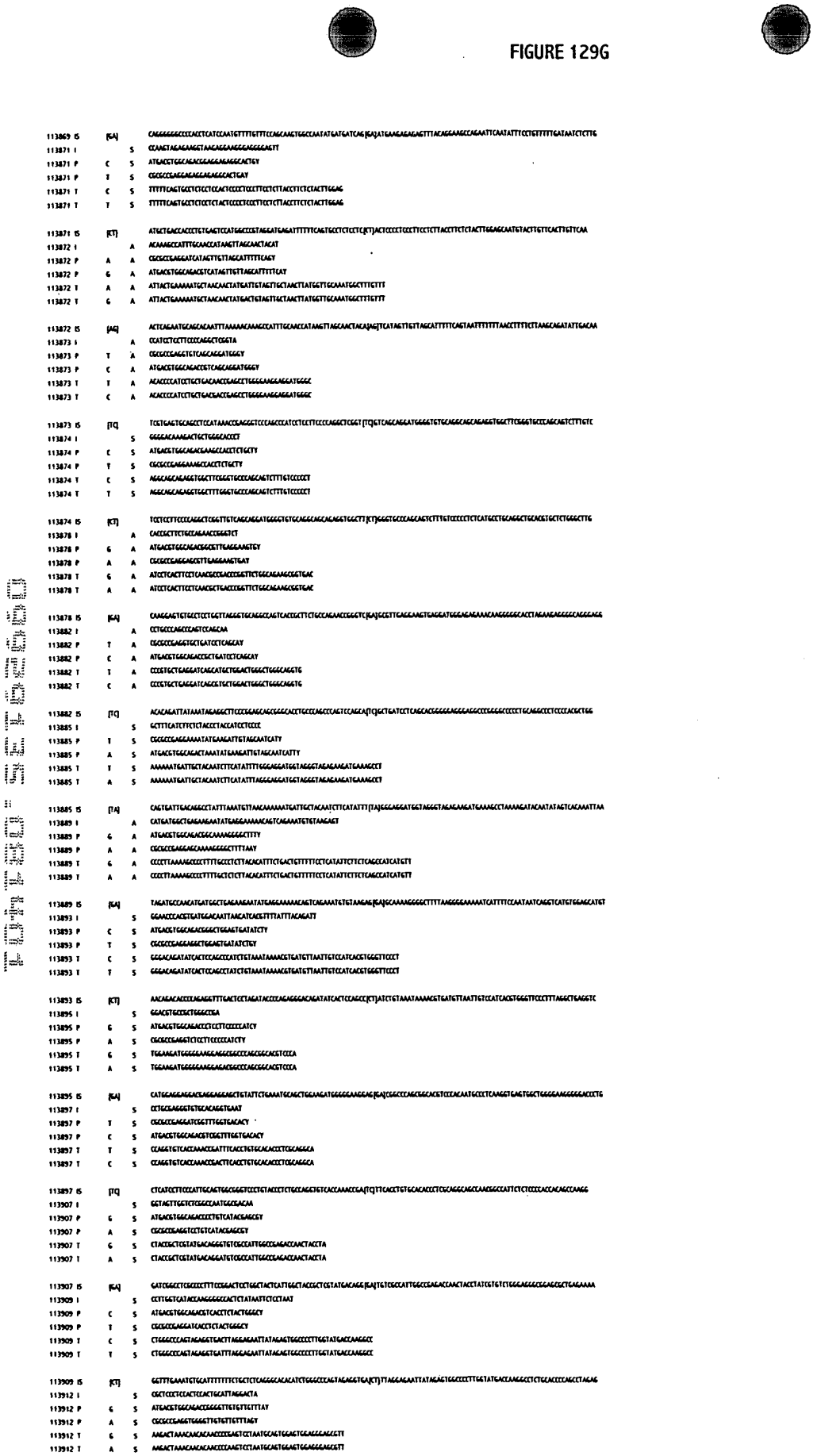
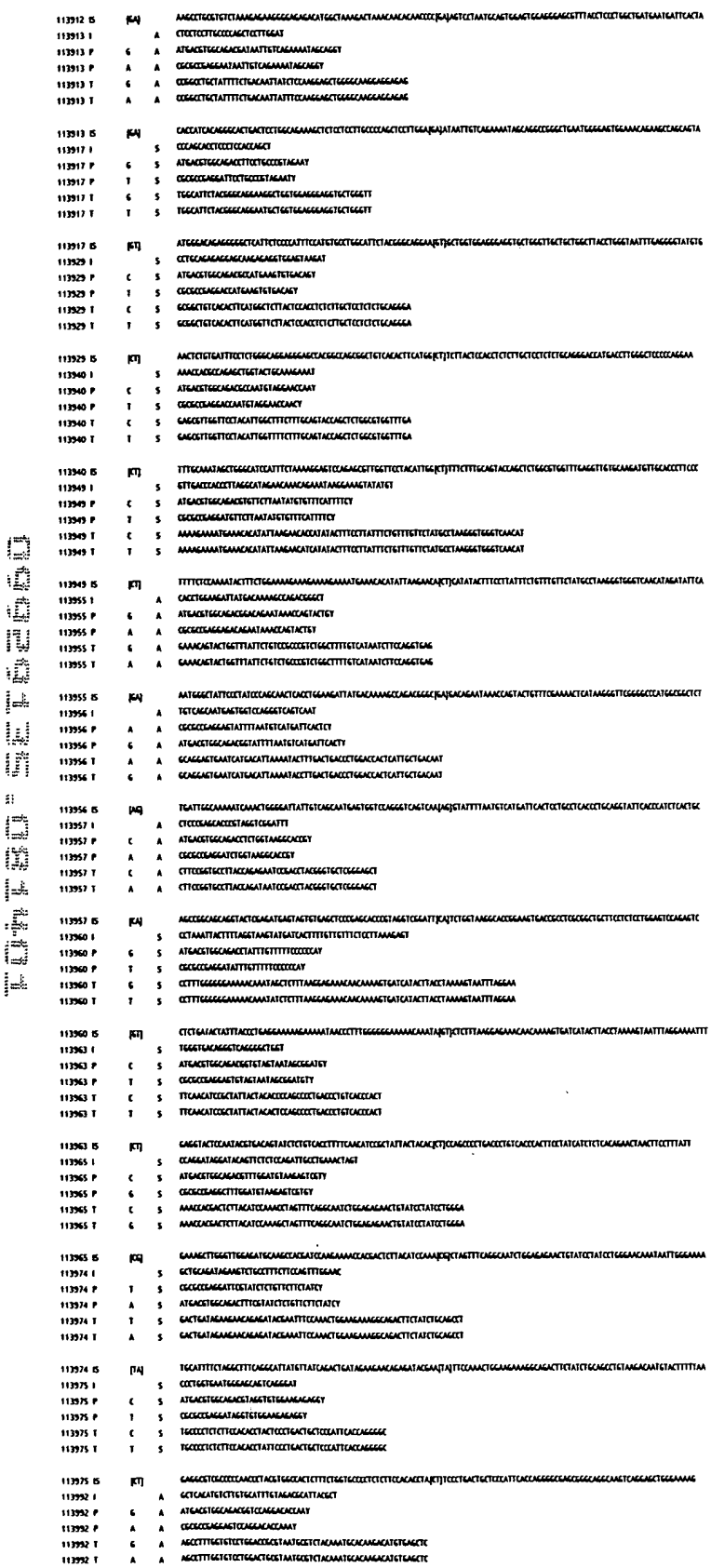
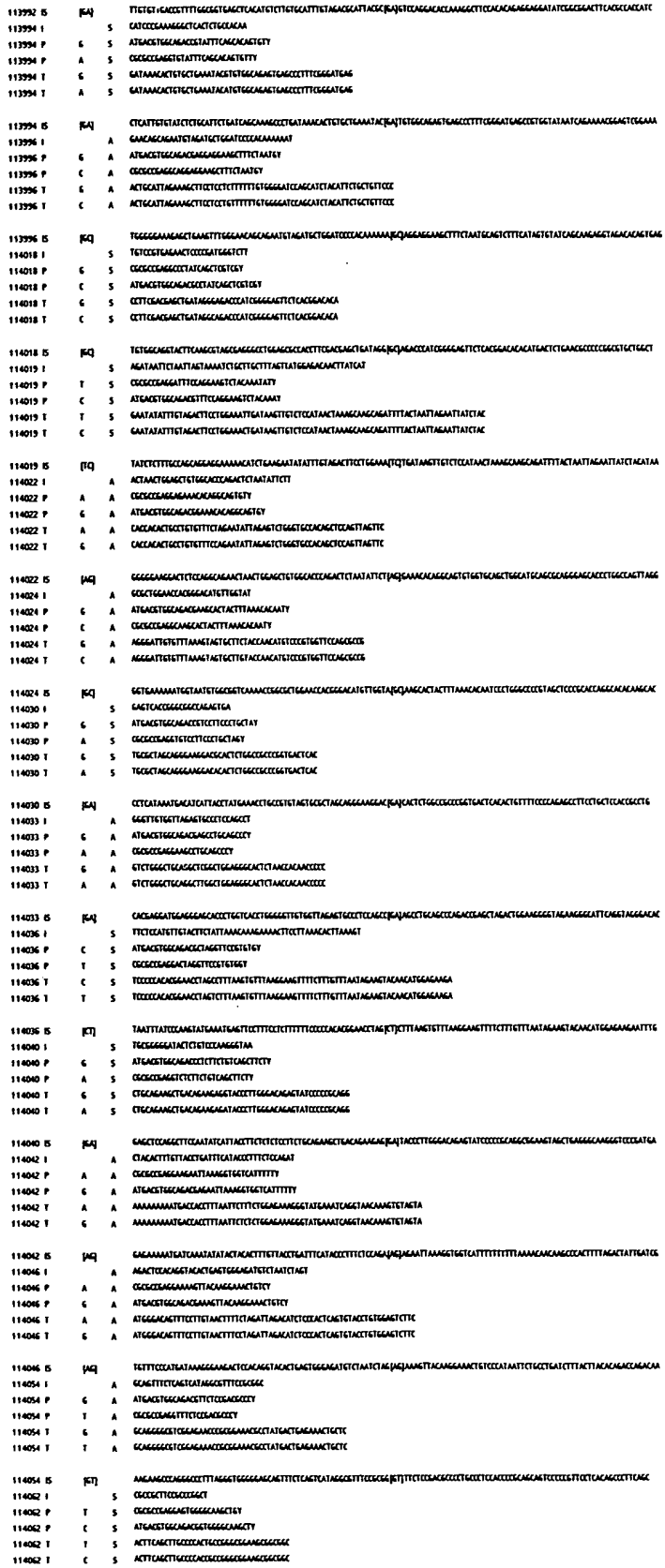
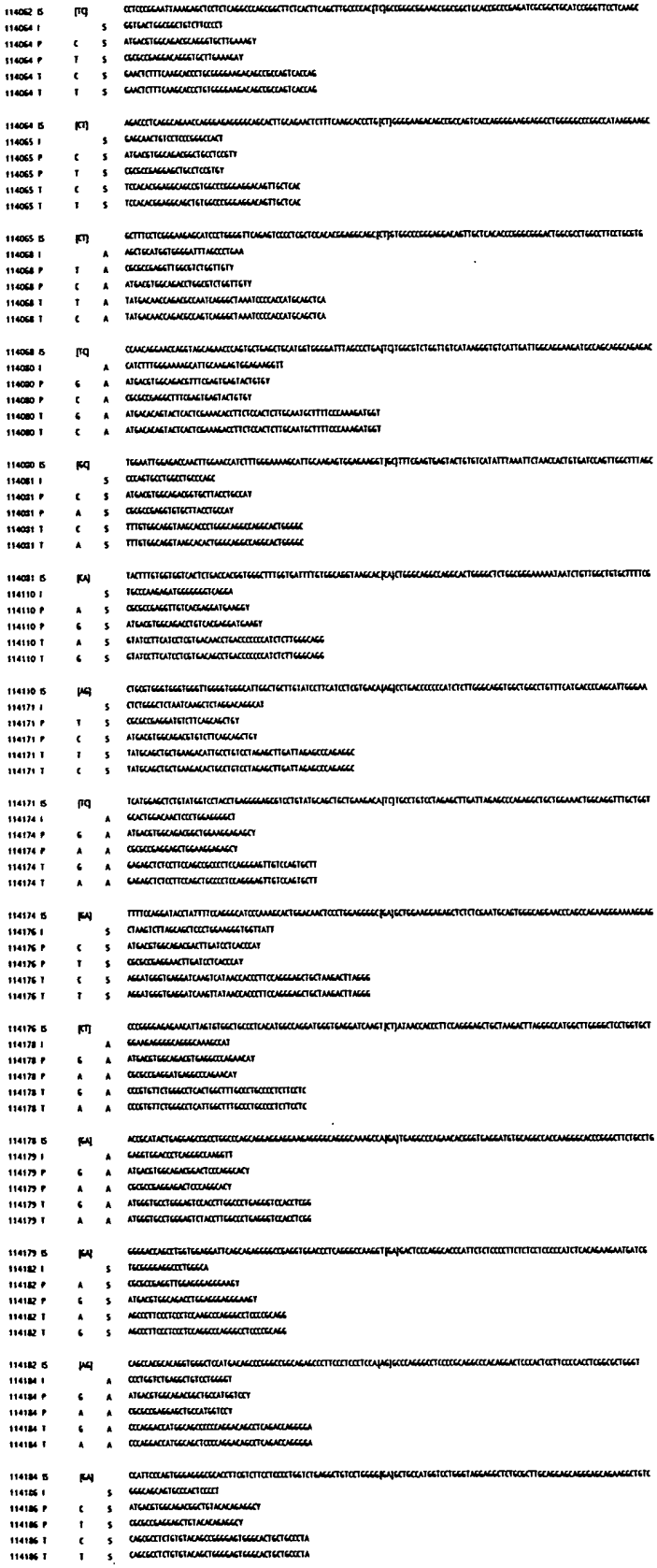


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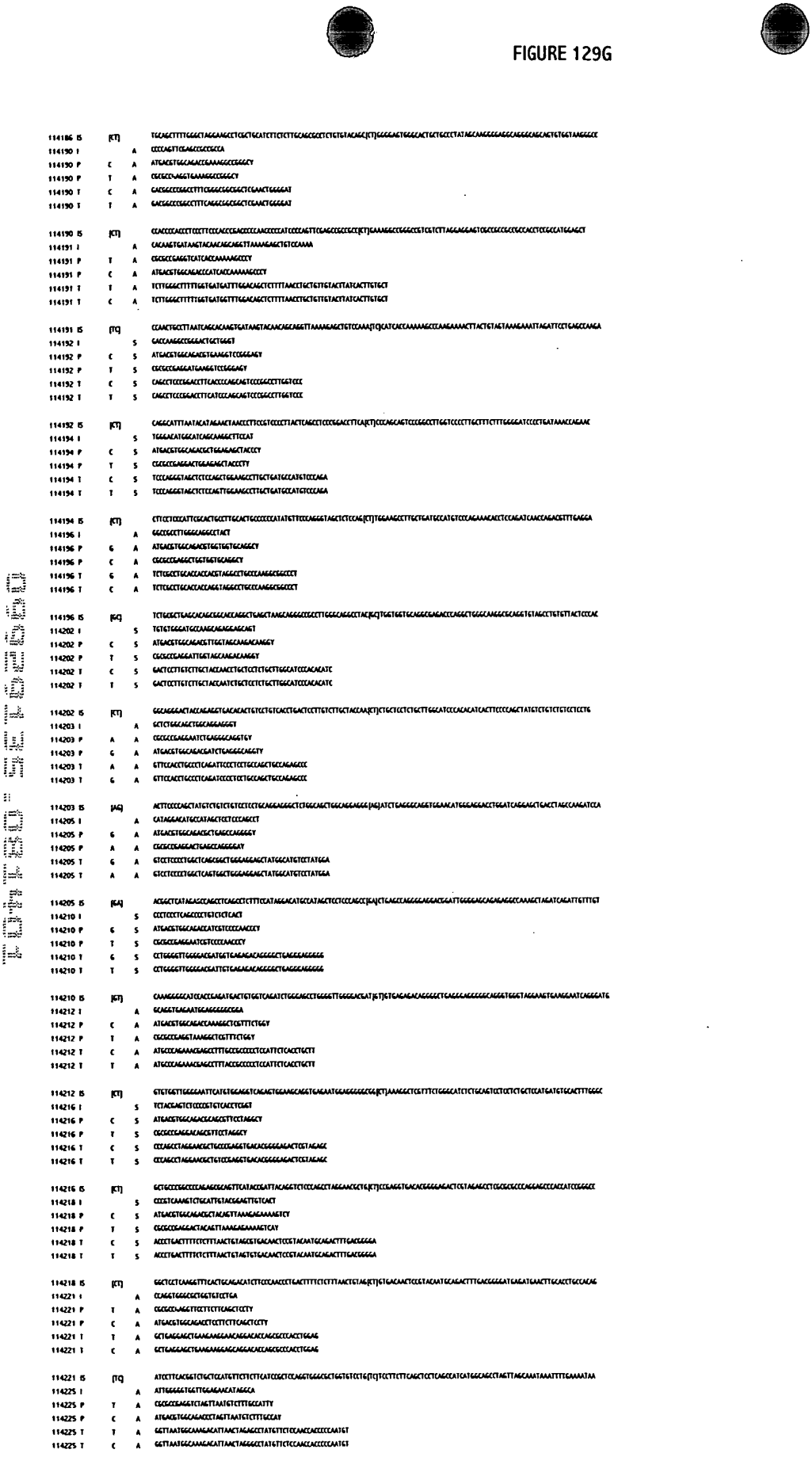


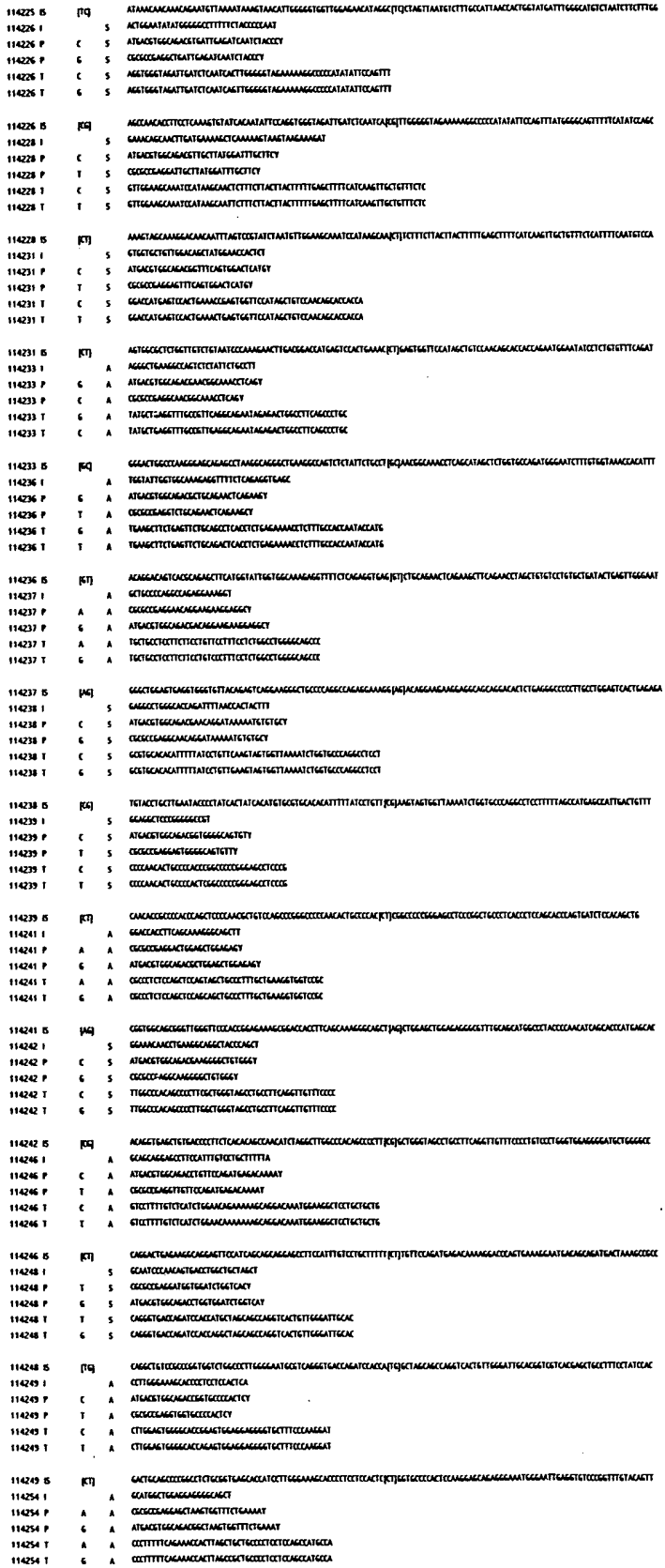


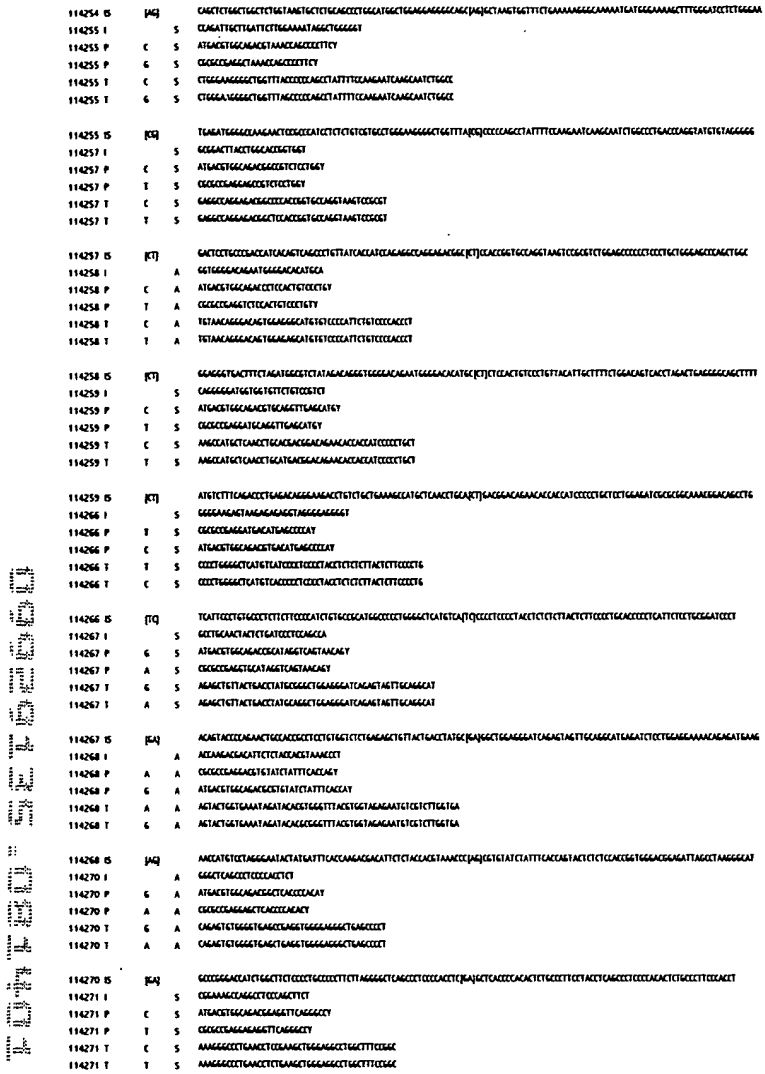




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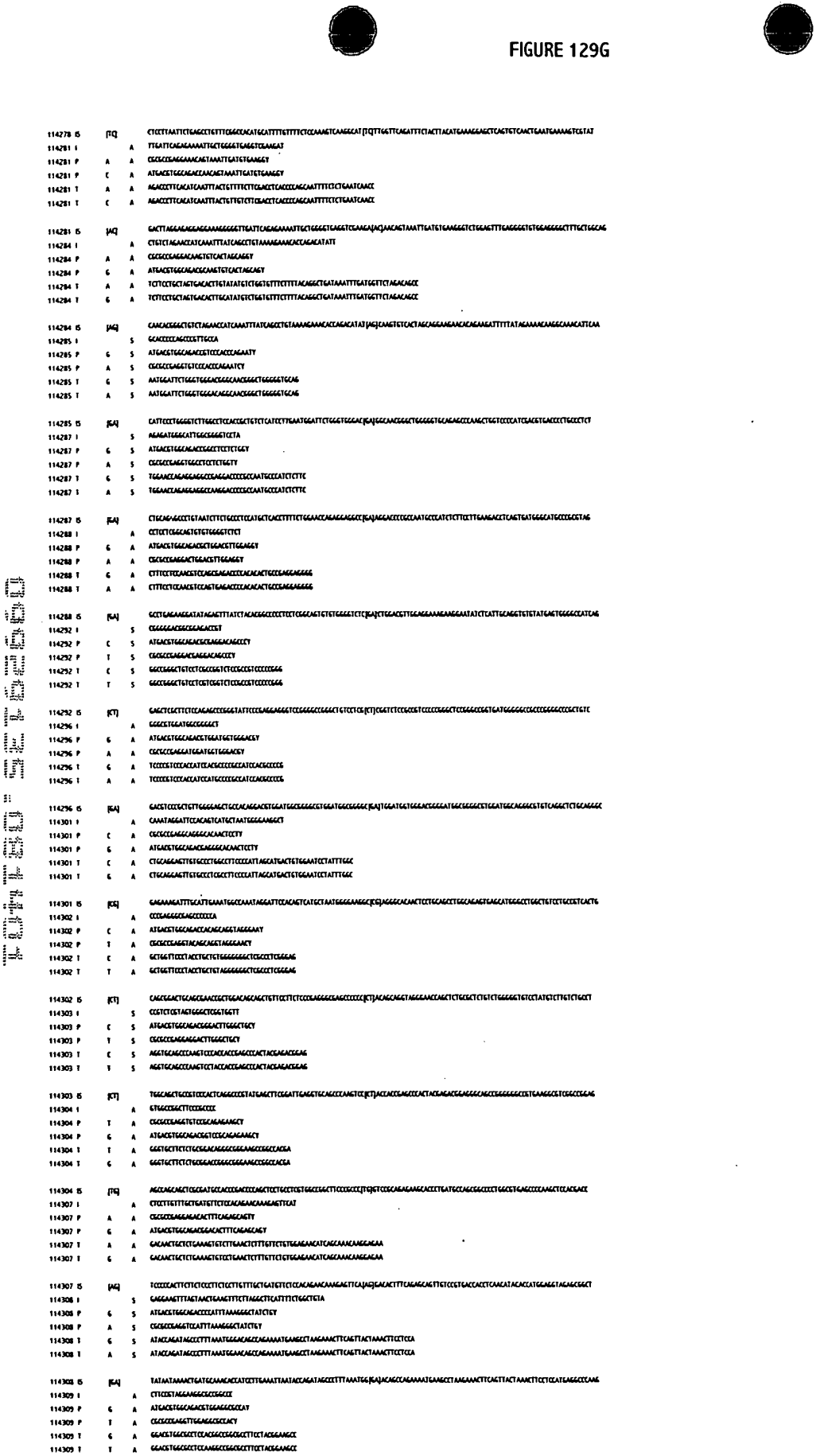


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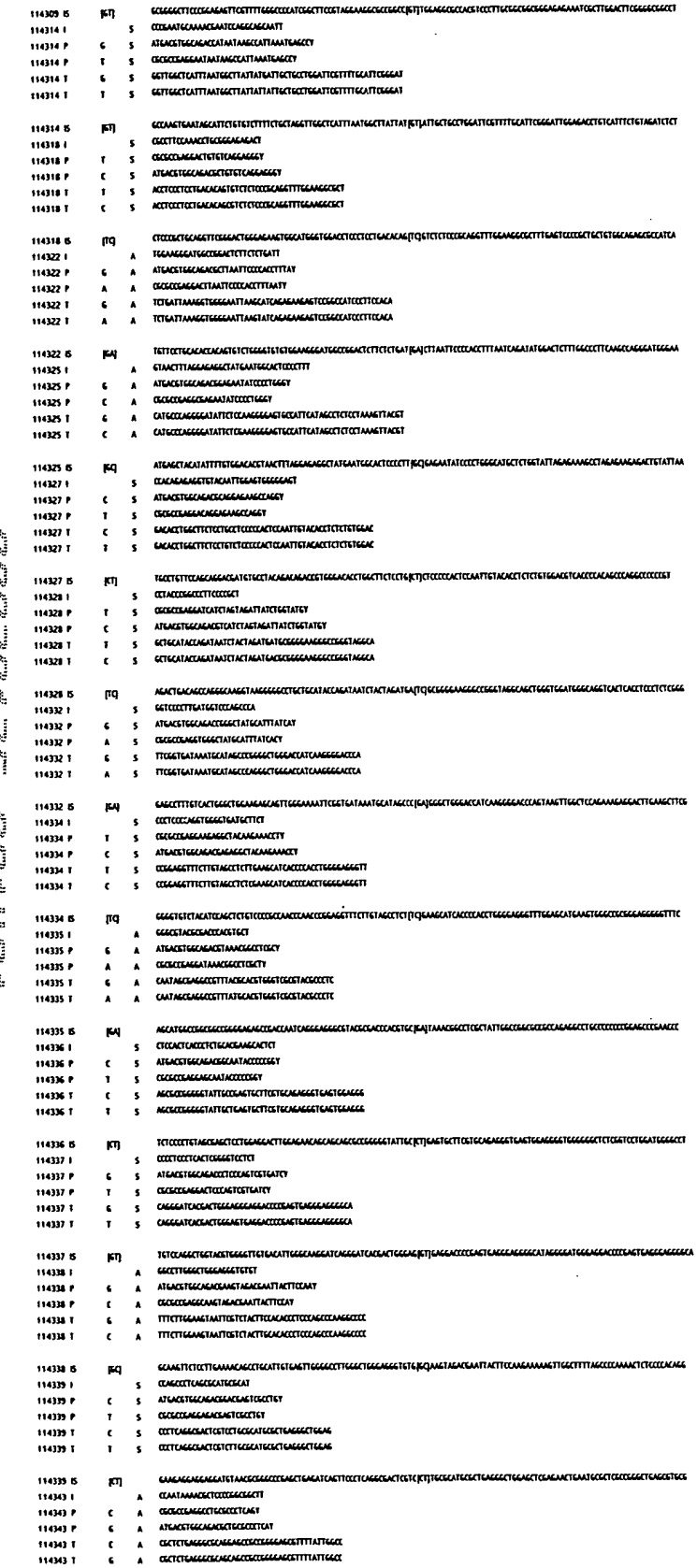


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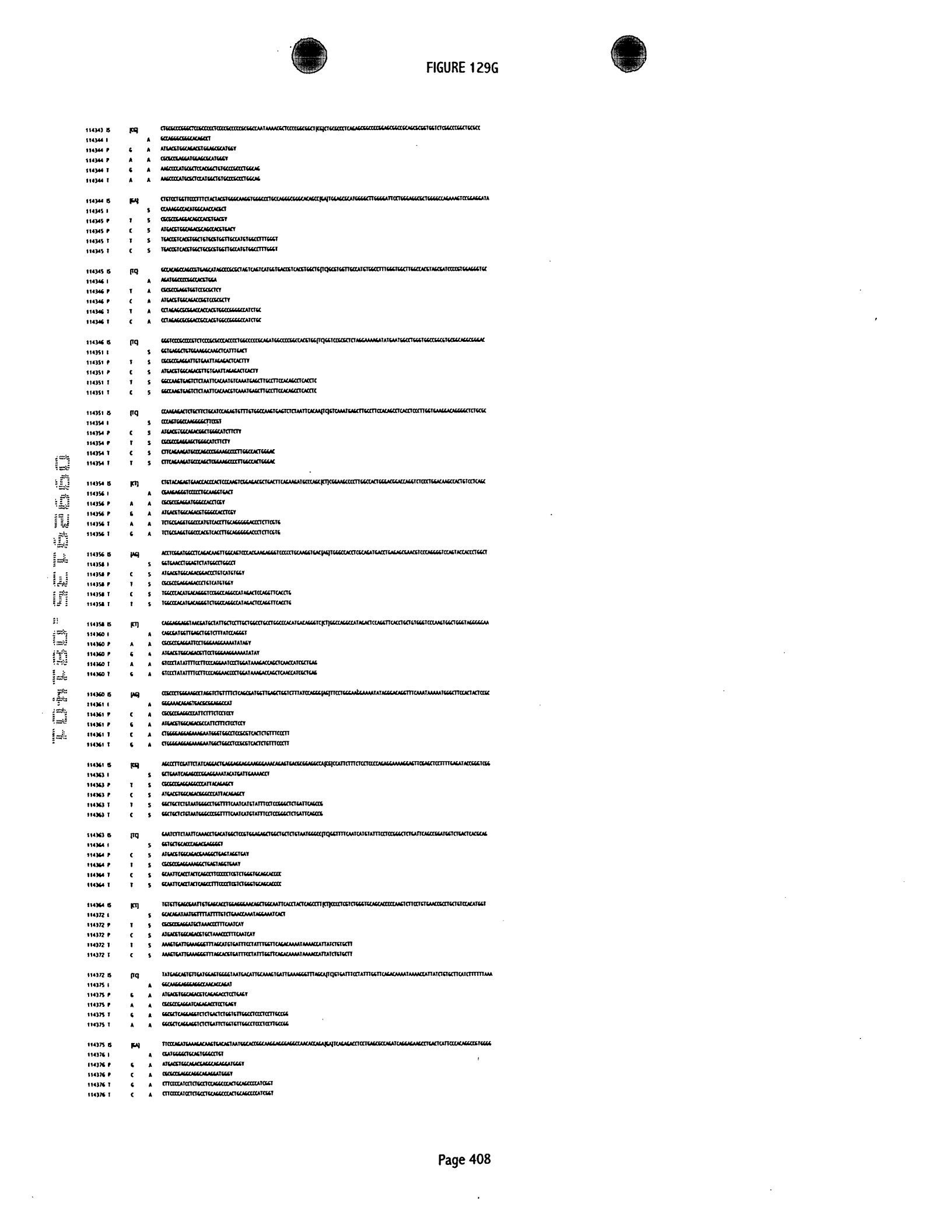
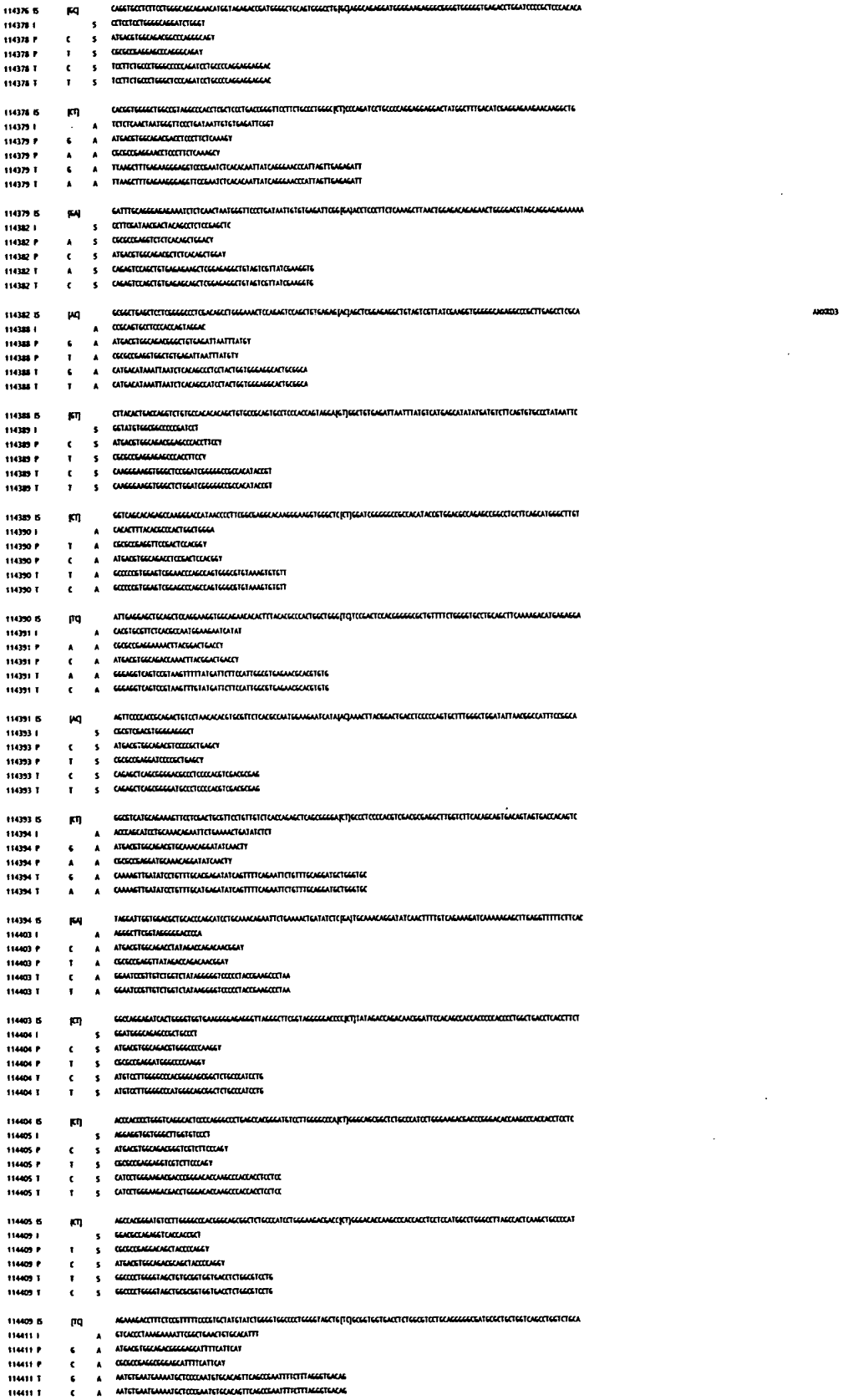
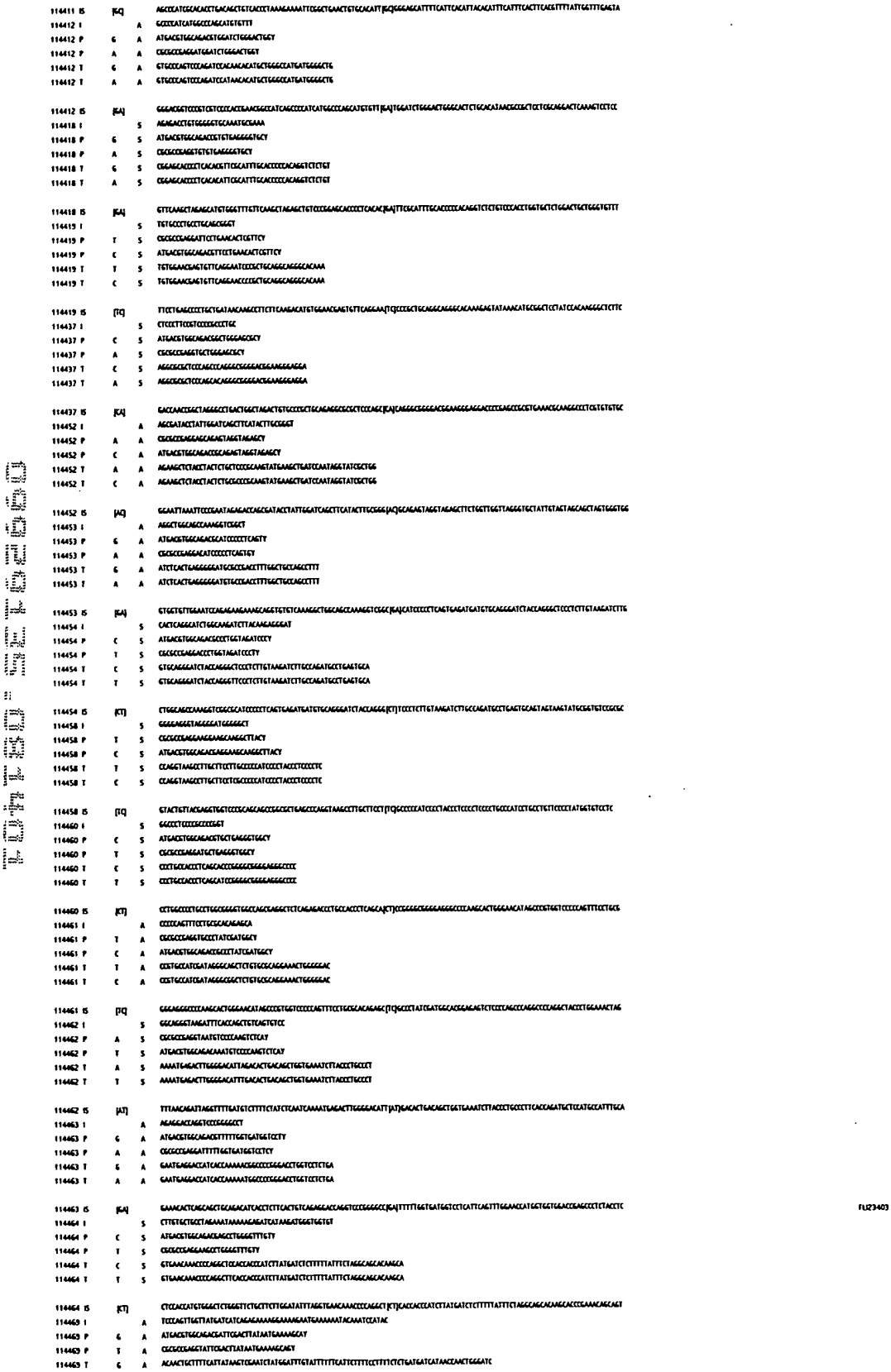
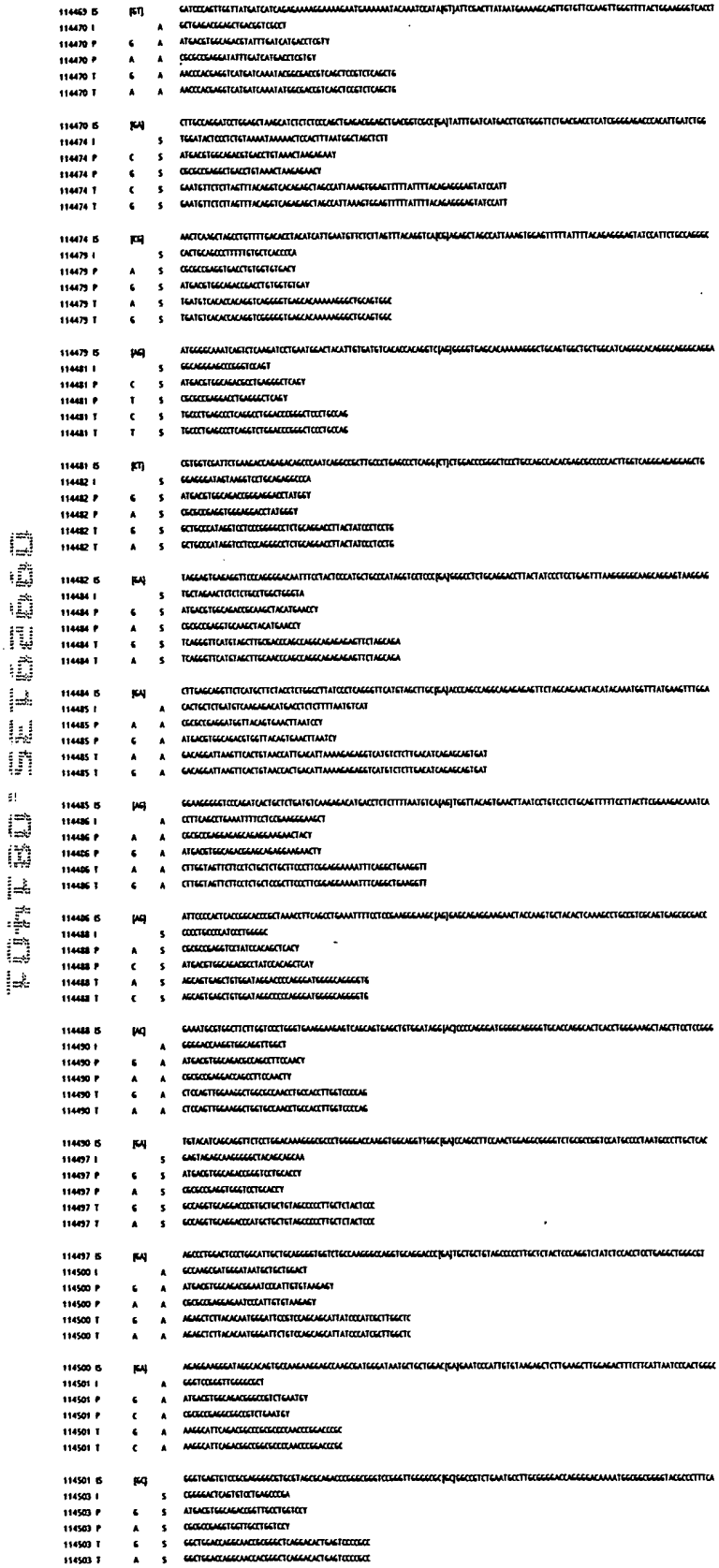


FIGURE 129G







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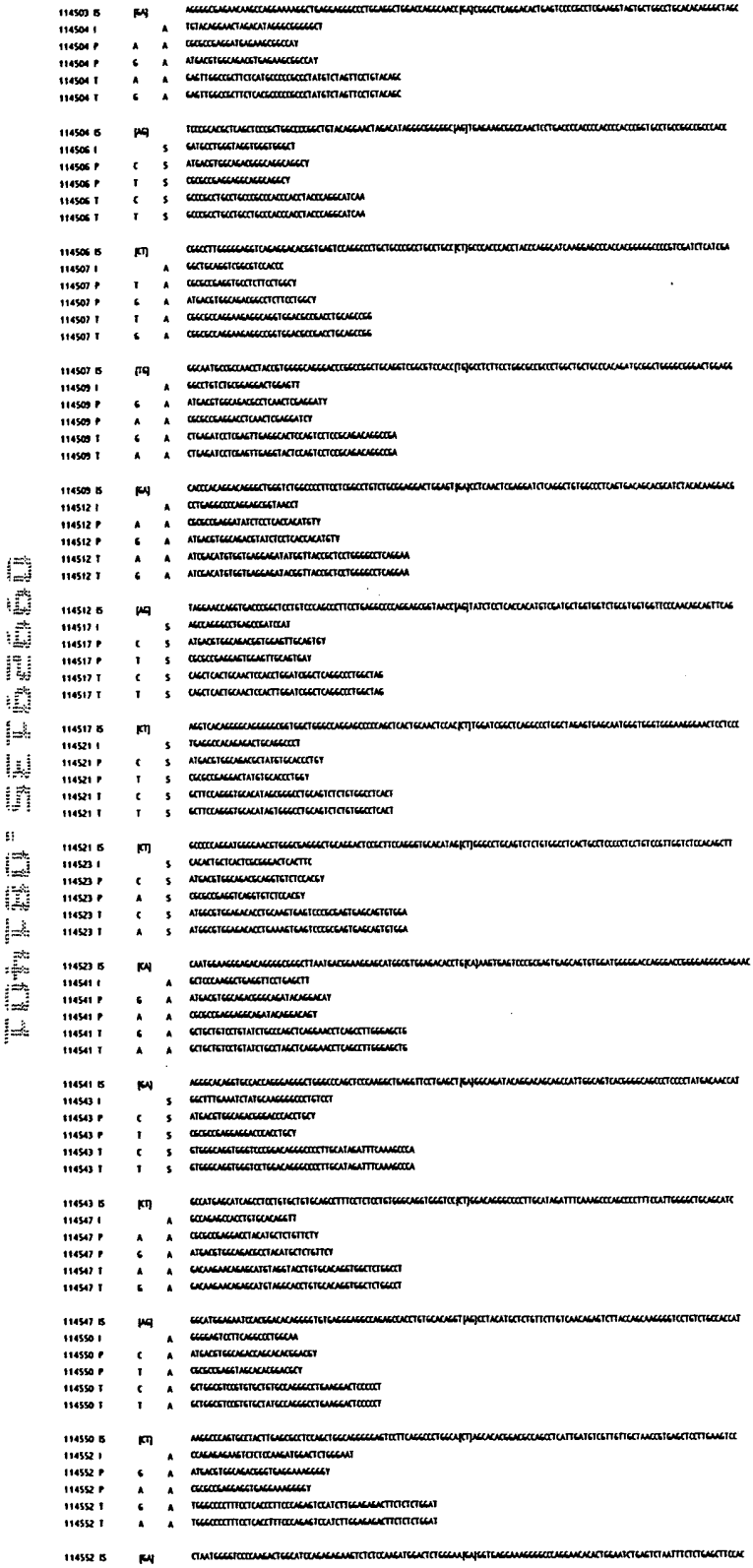
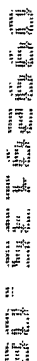
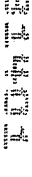


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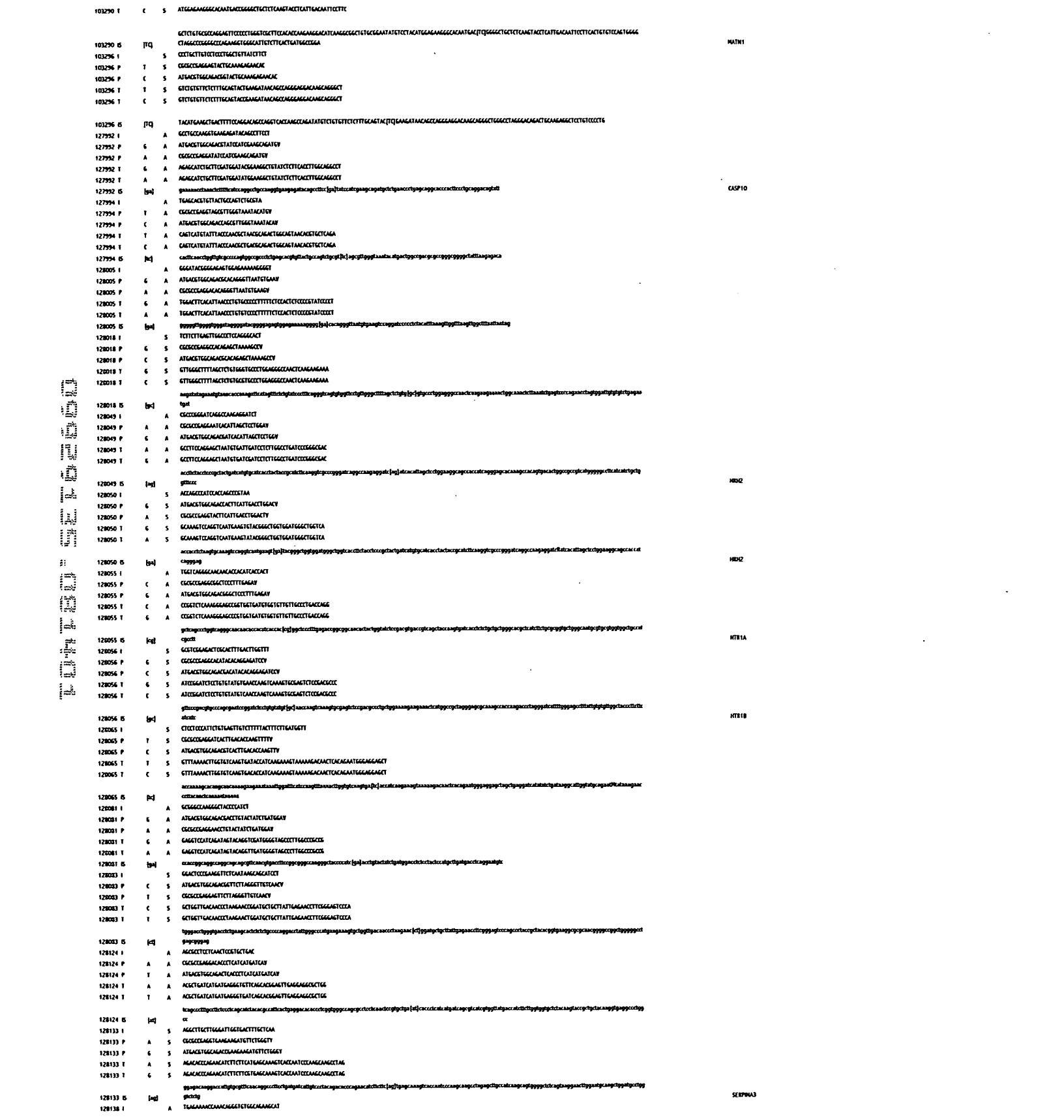








TAP1


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CASP10
HRH2
HRH2
HTR1A
HTR1B
SERPINA3

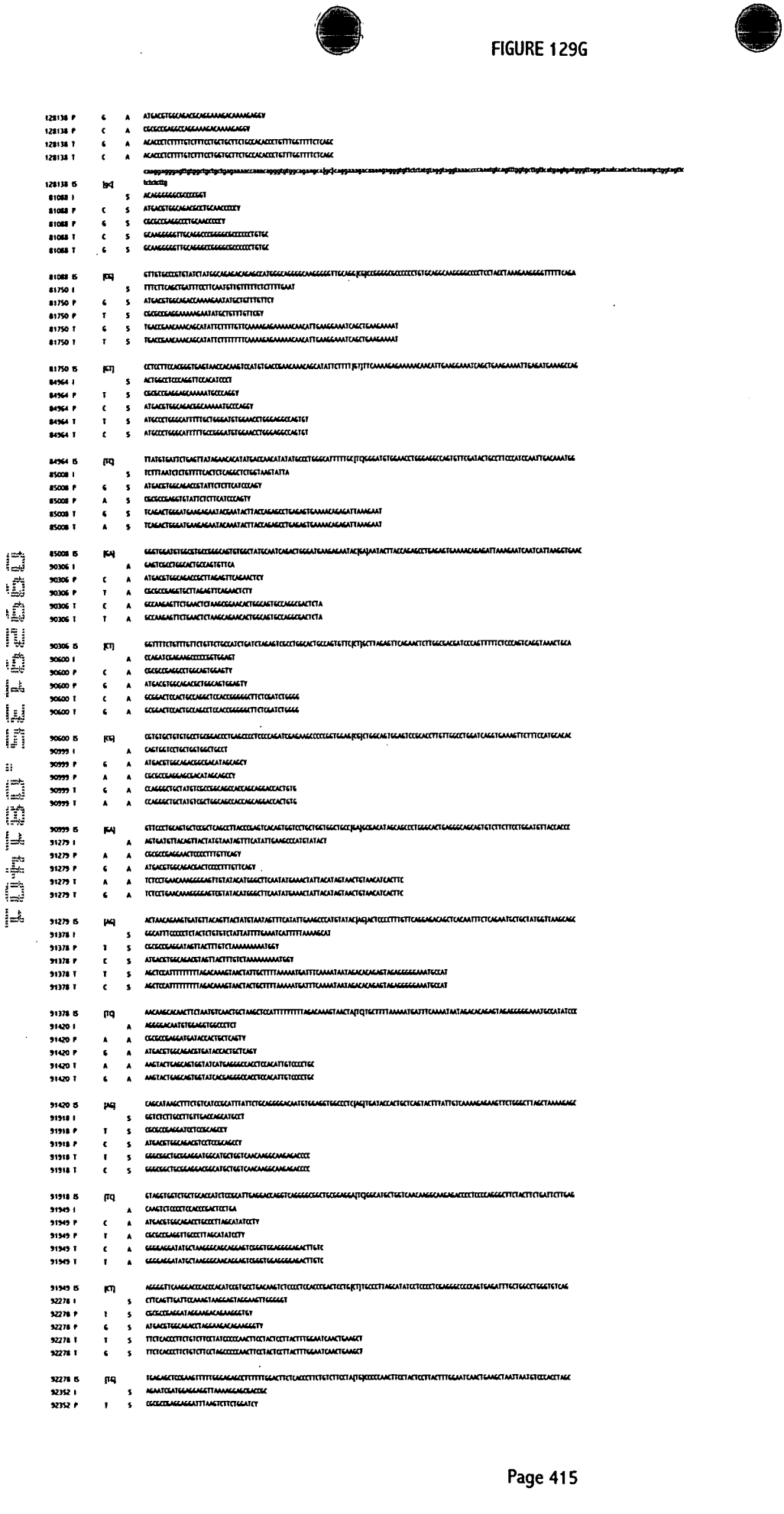


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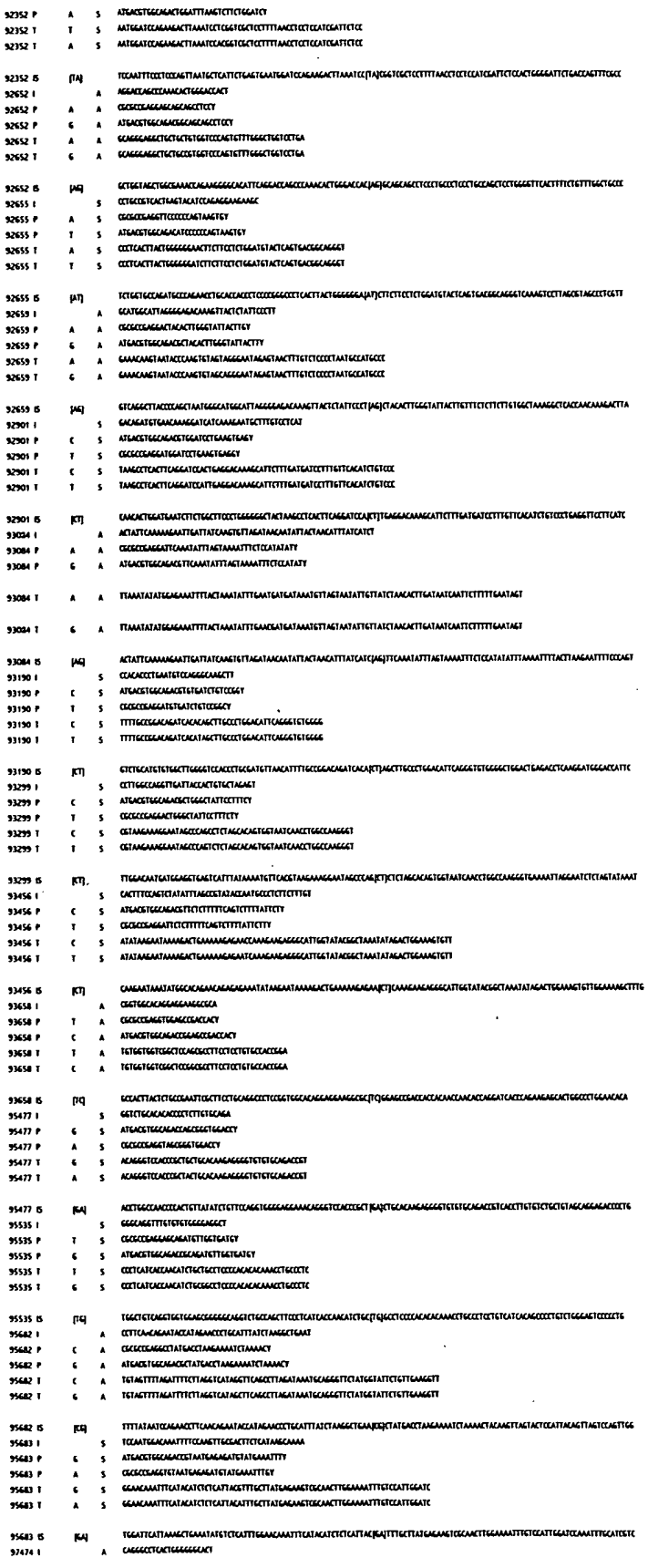


FIGURE 129G

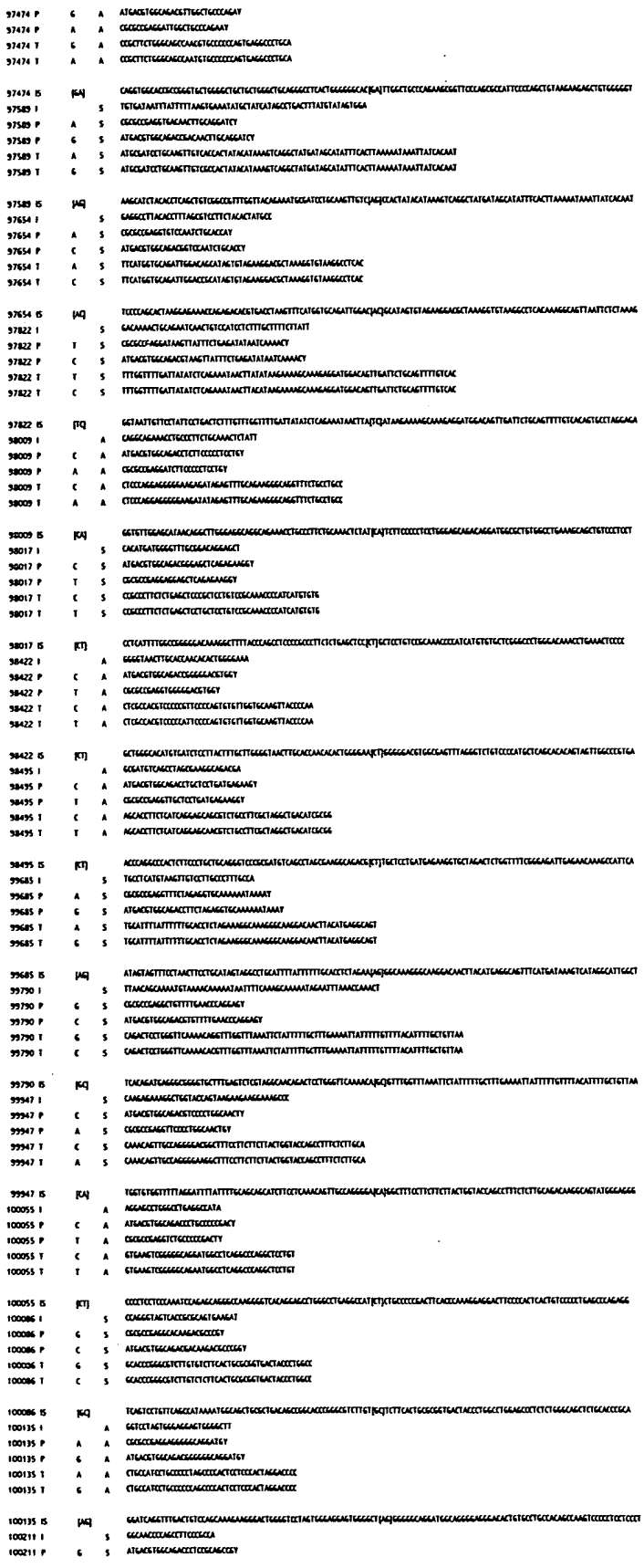
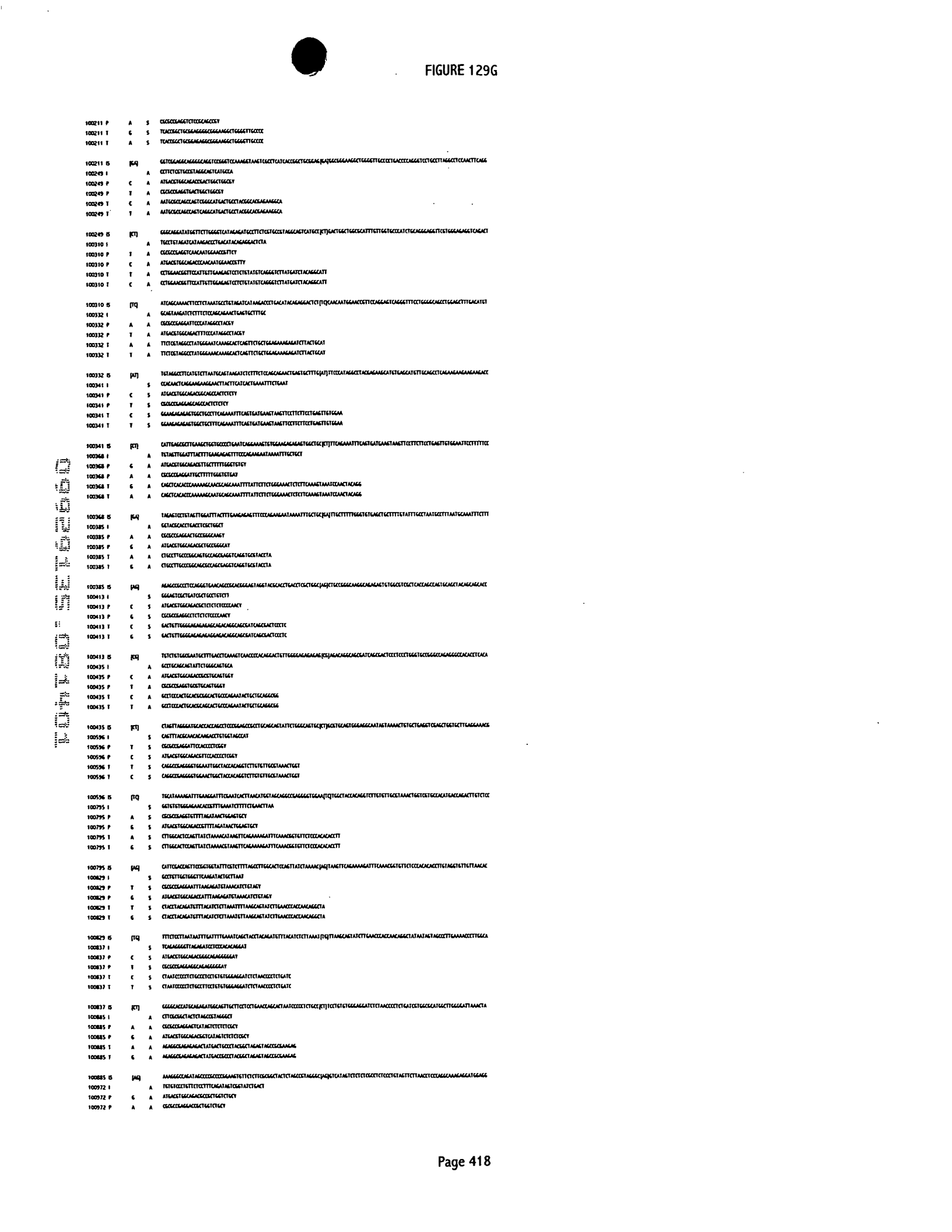


FIGURE 129G







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FIGURE 129G

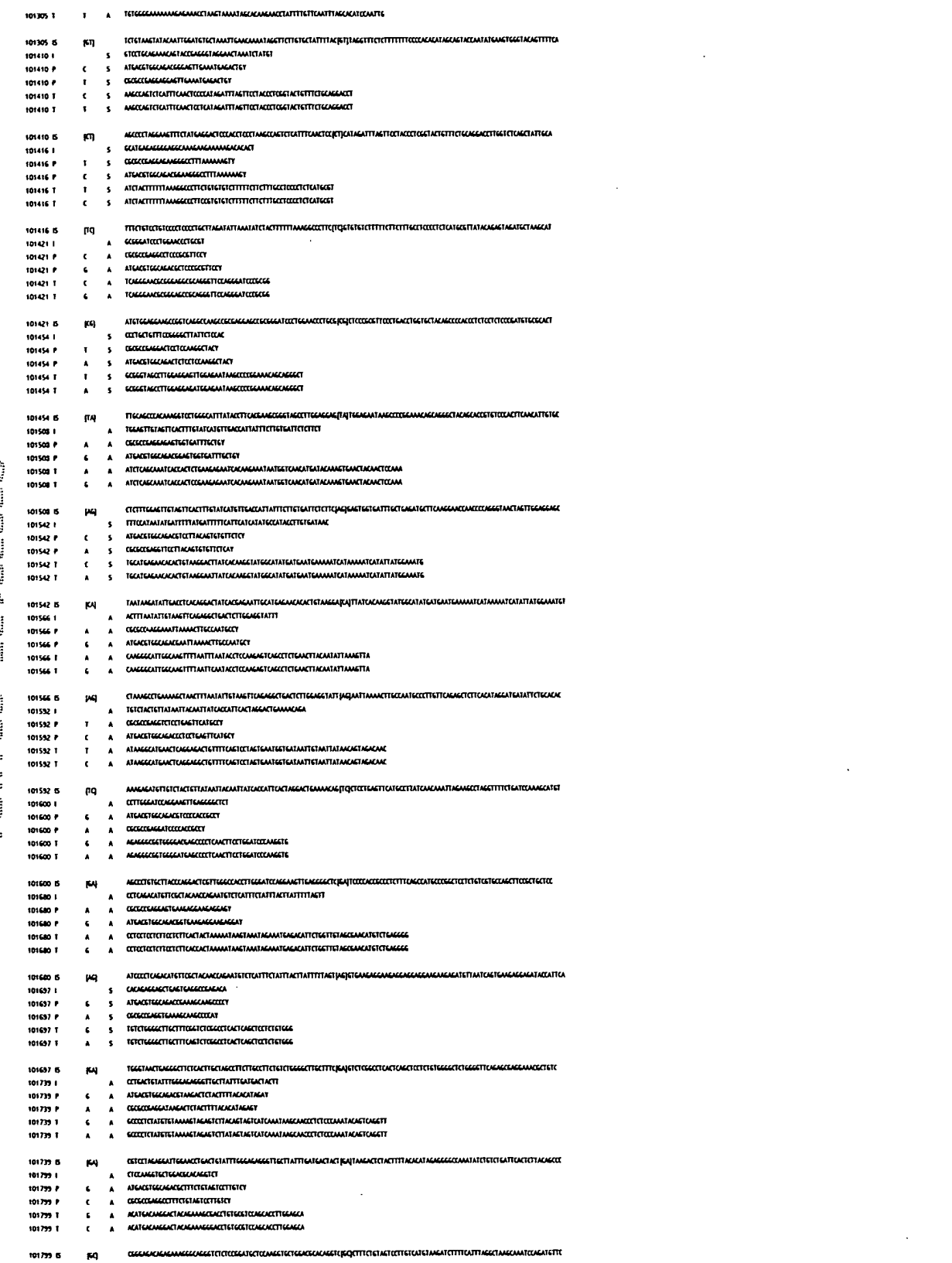
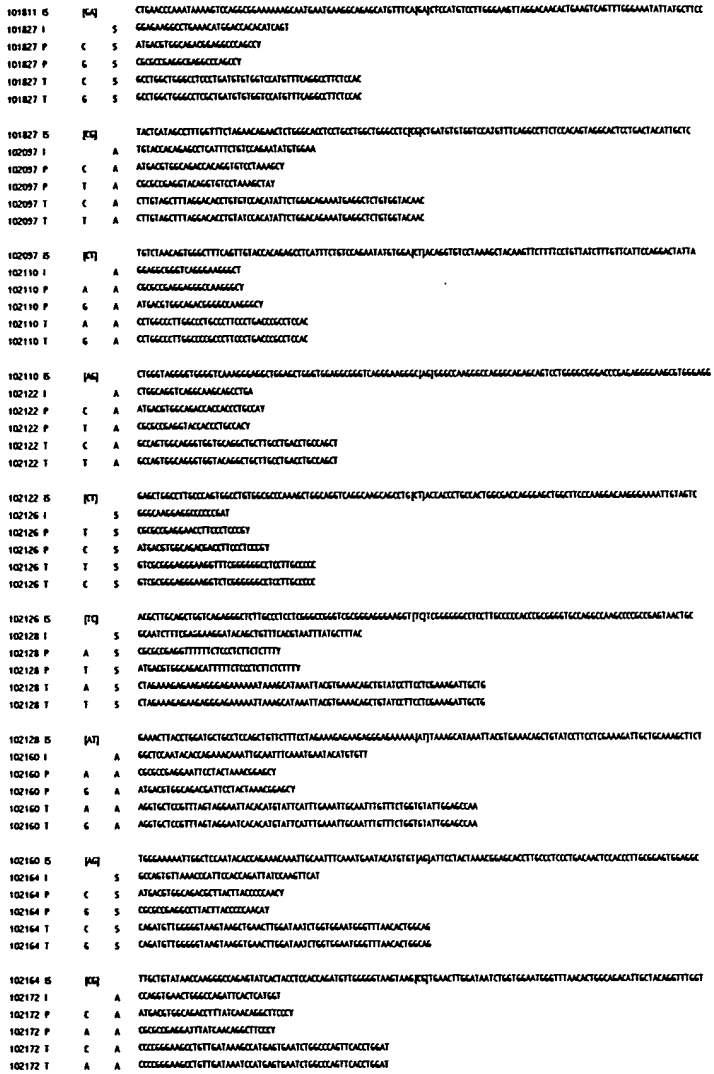


FIGURE 129G



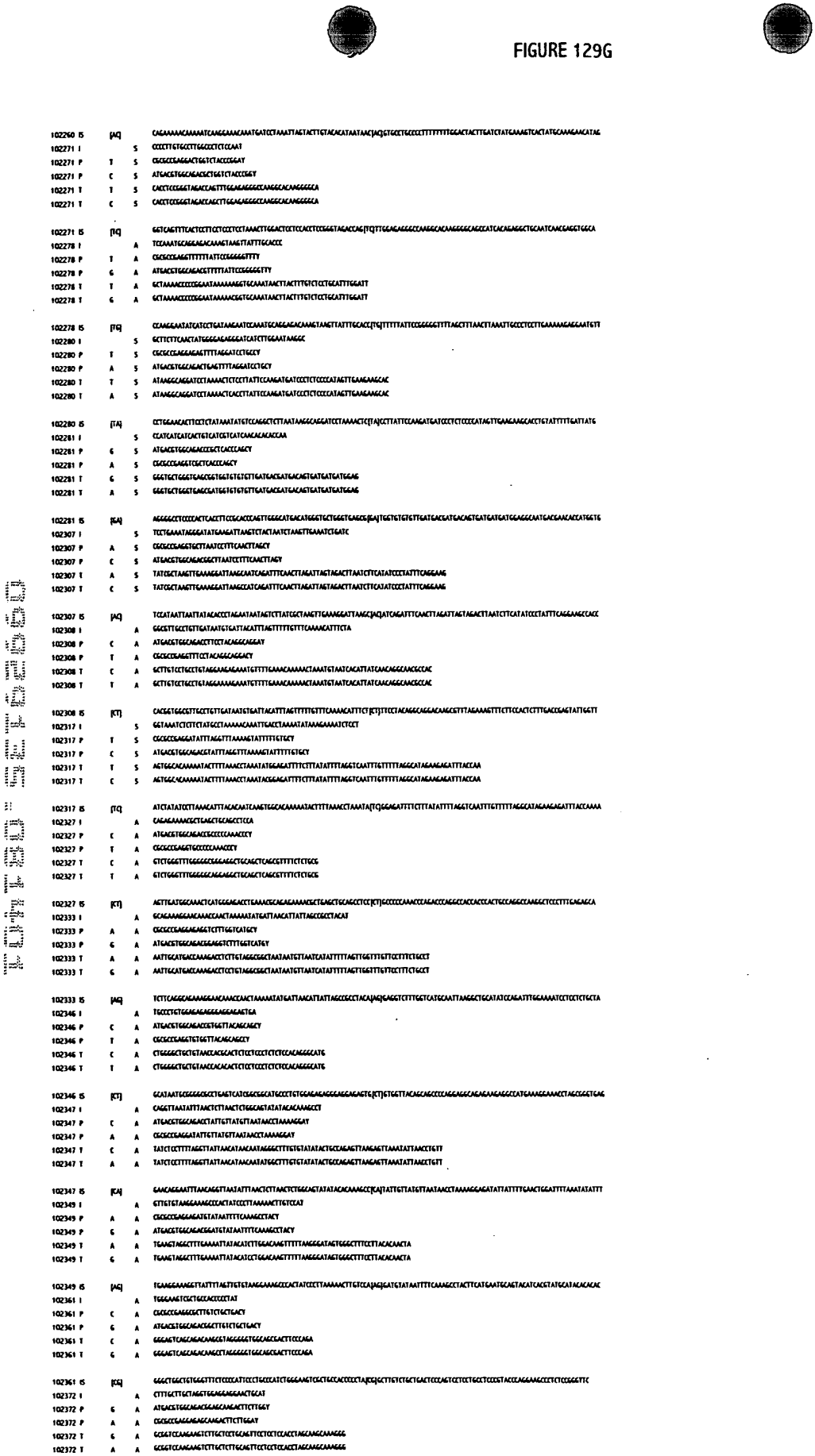
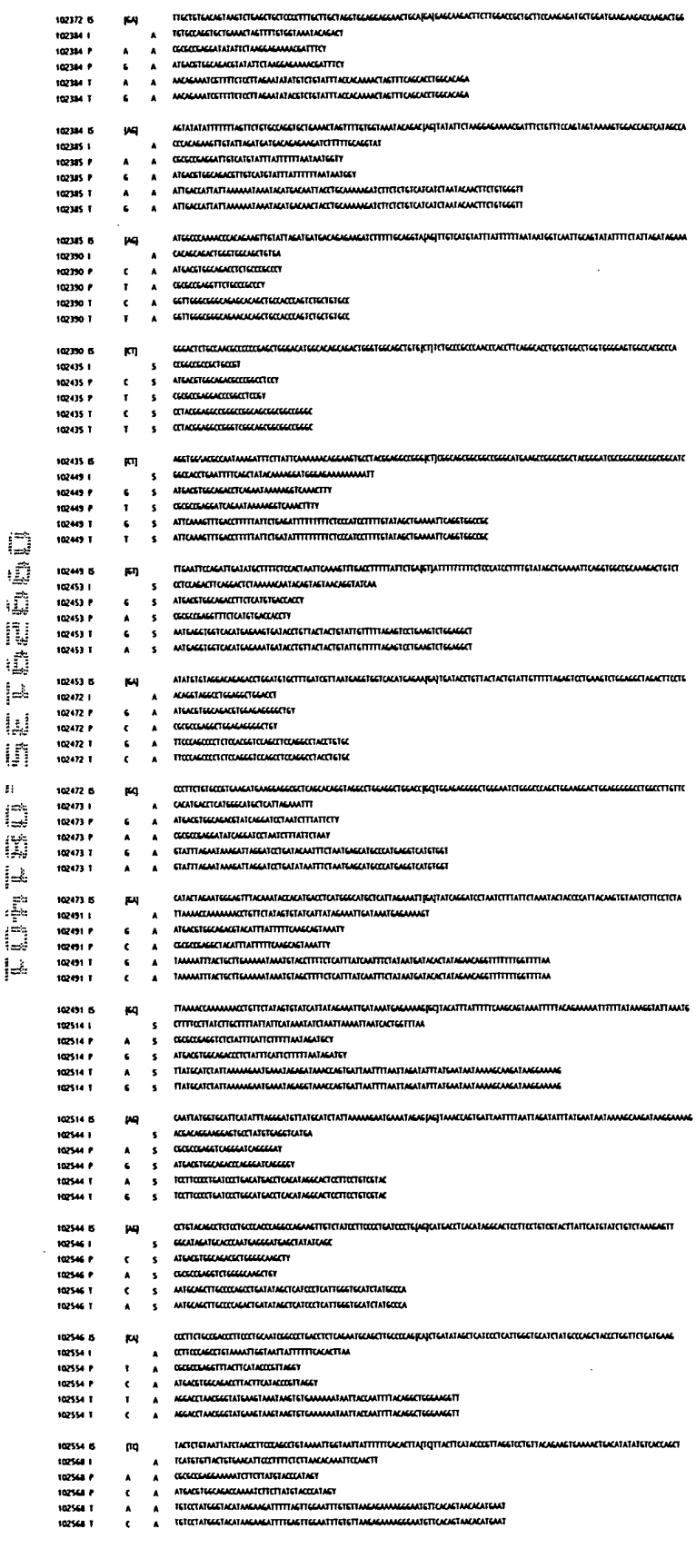


FIGURE 129G





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102580 I               A CAAGGGAAGGTGACTCCCCTTGGCCTTCA
102580 P       C       A ATGACGTGGCAGACCCCCTGGAAGACCCY
102580 P       T       A CGCGCCCAGGTCCCTGGAAGACCCAY
102580 T       C       A CATGTGGGTCTTCCAGGGGAAGGCCAAGGGGAGTCACCTTCCCTTGCC
102580 T       T       A CATGTGGGTCTTCCAGGGAGAAGGCCAAGGGGAGTCACCTTCCCTTGCC

102580 IS      [CT]      TAGGGGTGGGGGAGAGGCGTCGTGCAAACTGGCAAGGGAAGGTGACTCCCCTTGGCCTT[CT]CCCTGGAAGACCCACATGACCAACAGCAAGGCAGGGGAAGGTACATGGCAGGCAGGGGCGG
102604 I               S GGTGCTCAGCCTGTTCTTACTTGGAGGTGGAA
102604 P       G       S ATGACGTGGCAGACCGGTTGGTTCTCGTGY
102604 P       A       S CGCGCCGAGGTGGTTGGTTCTCGTGCY
102604 T       G       S TGGGGCACGAGAACCAACGTCCACCTCCAAGTAAGAACAGGCTGAGCACCTC
102604 T       A       S TGGGGCACGAGAACCAACCATCCACCTCCAAGTAAGAACAGGCTGAGCACCTC

102604 IS      [GA]      GGGCAAGGATGGCCATAGGGAACACTATAGAGAGTGAGGGGTGGGGCACGAGAACCAACC[GA]TCCACCTCCAAGTAAGAACAGGCTGAGCACCTCATTGCTTAATTTCTTTTCCCAAATTG
102621 I               A CTTATTGTCCAATTGTCAGCAAGAACAGGGCCTGAT
102621 P       A       A CGCGCCGAGGAAATGCTCAGGGCTCTY
102621 P       C       A ATGACGTGGCAGACCAATGCTCAGGGCTCY
102621 T       A       A GCTGAGAGCCCTGAGCATTTTCAGGCCCTGTTCTTGCTGACAATTGGACAATAAGGC
102621 T       C       A GCTGAGAGCCCTGAGCATTGTCAGGCCCTGTTCTTGCTGACAATTGGACAATAAGGC

102621 IS      [AC]      AGTGAAACAACAGAAGTCTCTCAGCCTTATTGTCCAATTGTCAGCAAGAACAGGGCCTGA[AC]AATGCTCAGGGCTCTCAGCCTGCTGGCAGAACTCAGGACTCATGTTCCTGCTACACCACA
102674 I               A CGCCAACAGGAAGTGAAGACGGATCCAGATCTT
102674 P       G       A ATGACGTGGCAGACGTGTGTGTGTGTGTGTY
102674 P       C       A CGCGCCGAGGCTGTGTGTGTGTGTGTY
102674 T       G       A CACACACACACACACACACAGATCTGGATCCGTCTTCACTTCCTGTTGGCCTG
102674 T       C       A CACACACACACACACACACAGATCTGGATCCGTCTTCACTTCCTGTTGGCCTG

102674 IS      [GC]      TGAACCAGTGTGTTATTGGTACTGCTCAGGCCAACAGGAAGTGAAGACGGATCCAGATCT[GC]TGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTCCCTATG
102738 I               A TGCCCTGGTTGTTGGGTGCTCTGGAATAAAGT
102738 P       A       A CGCGCCGAGGAGCTCCCACACCAACY
102738 P       G       A ATGACGTGGCAGACGCTCCCACACAAT
102738 T       A       A AAATGTTGGTGTCGGAGCTCTTATTCCAGAGCACCCAACAACCAGGGCATC
102738 T       G       A AAATGTTGGTGTCGGAGCCCTTATTCCAGAGCACCCAACAACCAGGGCATC

102738 IS      [AG]      AAGTTCCTCGGAGCGCAAGCAGACATCTGATGCCCTGGTTGTTGGGTGCTCTCGGAATAAAG[AG]GCTCCGCACACCAACATTTCAGTCTGAGGGAGTTACCTCAGTGTGCCTGCTTCCCTGGCAT
102753 I               A ACGCCACAGCAAAGGCATCACTTCAGGAA
102753 P       C       A ATGACGTGGCAGACCAGCAAAGCCCCTGY
102753 P       T       A CGCGCCGAGGTAGCAAAGCCCCTGTY
102753 T       C       A GGAGACAGGGGCTTTGCTGTCCTGAAGTGATGCCTTGCTGTGGCGTGA
102753 T       T       A GCACACAGGGGCTTTGCTATCCTGAAGTGATGCCTTTGCTGTGGCGTGA

102753 IS      [CT]      TTCCCTGGGGCCCGGCTCCAGTCTGAGCTGTCACGCCACAGCAAAGGCATCACTTCAGGA[CT]AGCAAAGCCCCTGTCTCCCTCCCTTCCAGCTCCTCAGACTTCACCCTGGTAACACGTTTG
102795 I               A CATCACATGATCTGTTTTTCACCACTTCACTGAAAGACACCATTTATT
102795 P       A       A CGCCCCCAGGATACCCAAGGGCAGAAAY
102795 P       C       A ATGACGTGGCAGACCTACCCAAGGGCAGAAY
102795 T       A       A CTACTTTCTGCCCTTGGGTATATAAATGGTGTCTTTCAGTGAAGTGGTGAAAAACAGATCATGTGATGGC
102795 T       C       A CTACTTTCTGCCCTTGGGTAGATAAATGGTGTCTTTCAGTGAAGTGGTGAAAAACAGATCATGTGATGGC

102795 IS      [AC]      GTTAAGAAGCAGCCATCACATGATCTGTTTTTCACCACTTCACTGAAAGACACCATTTAT[AC]TACCCAAGGGCACAAAGTAGAACTTACTATTCATTAAATGTTTGACACAATTGGAATTGT
103233 I               S GCAAAACAAACGGAAGGTTCGCCTTTTACCTTATTCACT
103233 P       C       S ATGACGTGGCAGACGTCAAAATTCTCCTGCAC
103233 P       T       S CGCGCCGAGGATCAAAATTCTCCTGCAC
103233 T       C       S CTCCGGTGCAGGAGAATTTTGACGTGAATAAGGTAAAAGGCGAACCTCCCGTTTGTTTTGCTG
103233 T       T       S CTCCGGTGCAGGAGAATTTTGATGTGAATAAGGTAAAAGGCGAACCTCCCGTTTGTTTTGCTG

                         TGCTGCTGCTTTCCGCACTGGCTGCCTCTTCGCTGCGGCAGAGGGACAAGCATTTCATCTTGGGAAGTGCCCCAATCCTCCGGTGCAGGAGAATTTTGA[CT]TGTGAATAAGGTAAAAGGCGAACCTCCCGTTTGTTTTGCTGCCTCCGCTGTGA
103233 IS      [CT]      ATAAGCGTTCTACAAGGTTCAATGTAATTATGCTGCTTTAATTTCCAC
103240 I               A TAAAGCTGAAAACTGCAACTTGTAAATGTGGTAAAGAGTTAGTTTGAGTTT
103240 P       A       A CGCGCCGAGGAGTATCATGTCAAAGTGAAA
103240 P       G       A ATGACGTGGCAGACGCTATCATGTCAAACGTGA
103240 T       A       A GCATTTTCACGTTTGACATGATAGTAACTCAAACTAACTCTTTACCACATTTACAAGTTGCAGTTTTCAGCTTTA
103240 T       G       A GCATTTTCACGTTTGACATGATAGCAACTCAAACTAACTCTTTACCACATTTACAAGTTGCAGTTTTCAGCTTTA

103240 IS      [AG]      TAAAGCTGAAAACTGCAACTTGTAAATGTGGTAAAGAGTTAGTTTGAGTT[AG]CTATCATGTCAAACGTGAAAATGCTGTATTAGTCACAGAGATAATCTAG
103300 I               A CCACCTCCCAGGTCCGTCCCAGGT
103300 P       C       A CGCGCCGAGGCACATCACCAGCCTG
103300 P       G       A ATGACGTGGCAGACGACATCACCAGCCTG
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103300 T       G       A CCTCCAGGCTGGTGATGTCCCTGGCACGGACCTCGGCAGCTGGTC

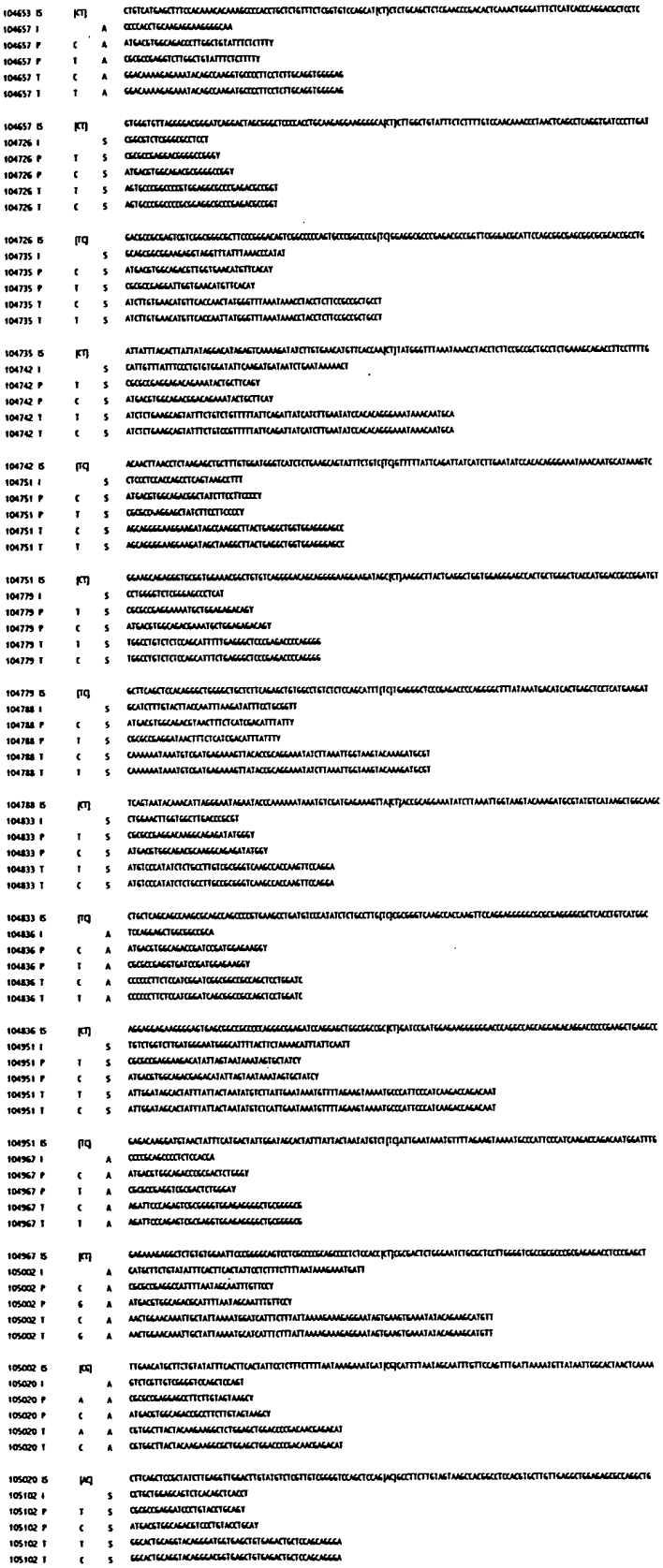
103300 IS      [CG]      GGGACCTGCAGTGCCTGTGTGTGAAGACCACCTCCCAGGTCCGTCCCAGG[CG]ACATCACCAGCCTGGAGGTGATCAAGCCCGGCACCCCACTGCCCCACTGCC                                                    MULTIPLE SHORT GENE NAMES
103304 I               A GAGTGGAGCCAACCCATGAAGAGGCTGACT
103304 P       A       A CGCGCCGAGGAACTTGGCAACACCAC
103304 P       C       A ATGACGTGGCAGACCCTTGGCAACACCAC
103304 T       A       A GGAGGTGGTGTTGCCAAGTGTCAGCCTCTTCATGGGTTGGCTCCACTCGG
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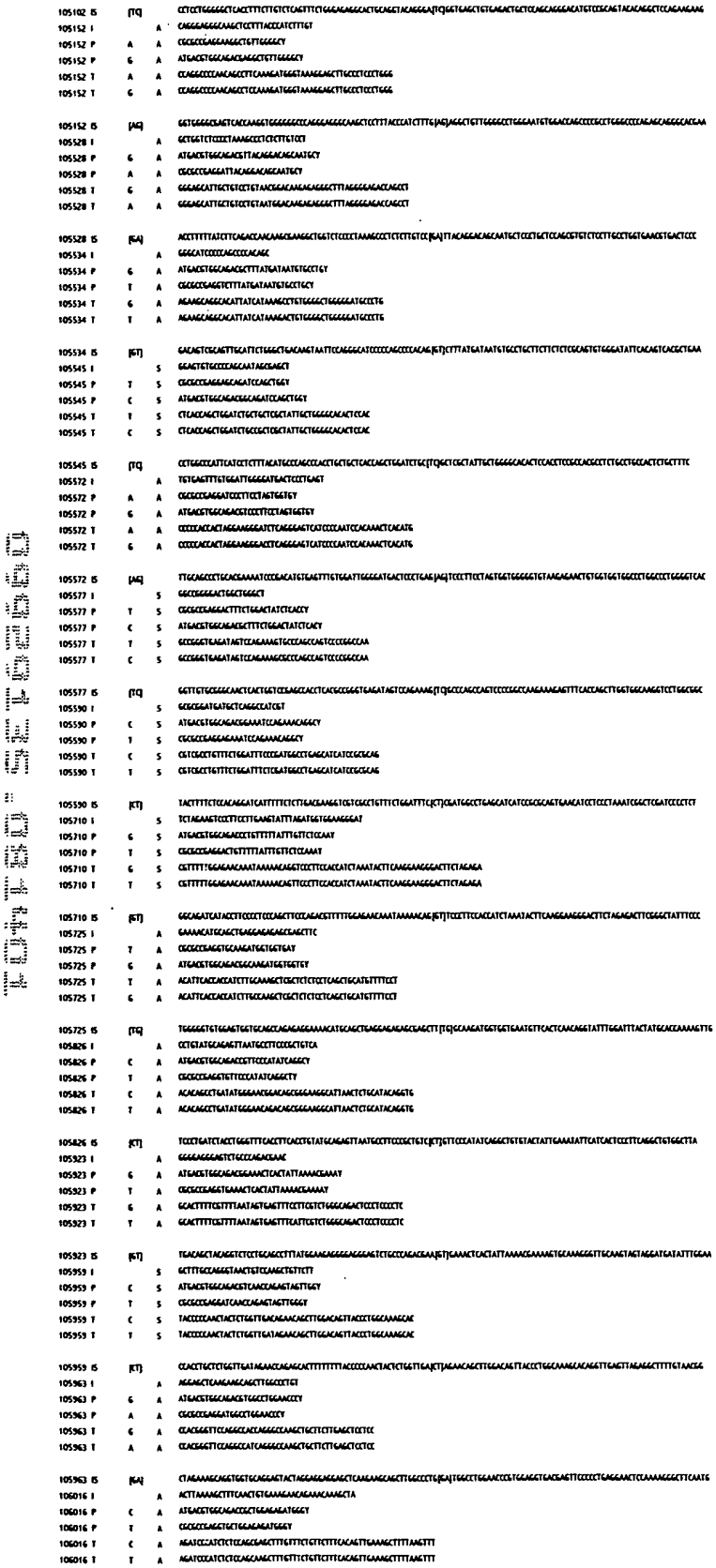
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103309 I               A TTTTTAACATGGGTTTCCTTATTGAAAAATCAGTGTATTAGTCATAAAACT
103309 P       A       A CGCGCCGAGGAACATCATTAAGAATAATTGAACAA
103309 P       C       A ATGACGTGGCAGACCCCATCATTAAGAATAATTGAACA
103309 T       A       A TTTATTGTTCAATTATTCTTAATGATGGTGTTTTATGACTAATACACTGATTTTTCAATAAGGAAACCCATGTTAAAAA
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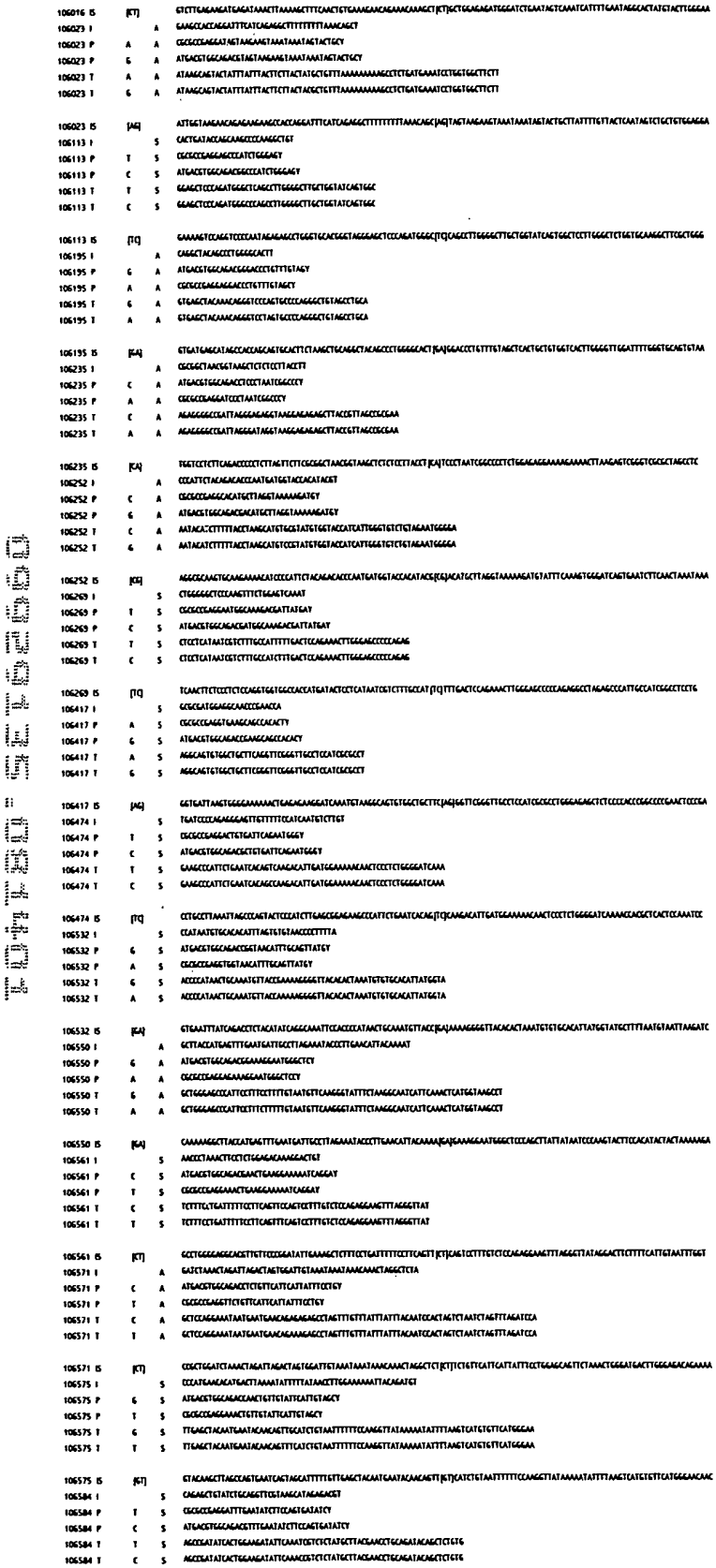
103309 IS      [AC]      TTTTTAACATGGGTTTCCTTATTGAAAAATCAGTGTATTAGTCATAAAAC[AC]CCATCATTAAGAATAATTGAACAATAAAGTTTGCTTCAGATGCAGTTTT
104643 I               S TCCCCTCTCCTCCCCTCCCCTCCT
104643 P       C       S ATGACGTGGCAGACGAGAGGCCAGATAGGCT
104643 P       G       S CGCGCCGAGGCAGAGGCCAGATAGGCY
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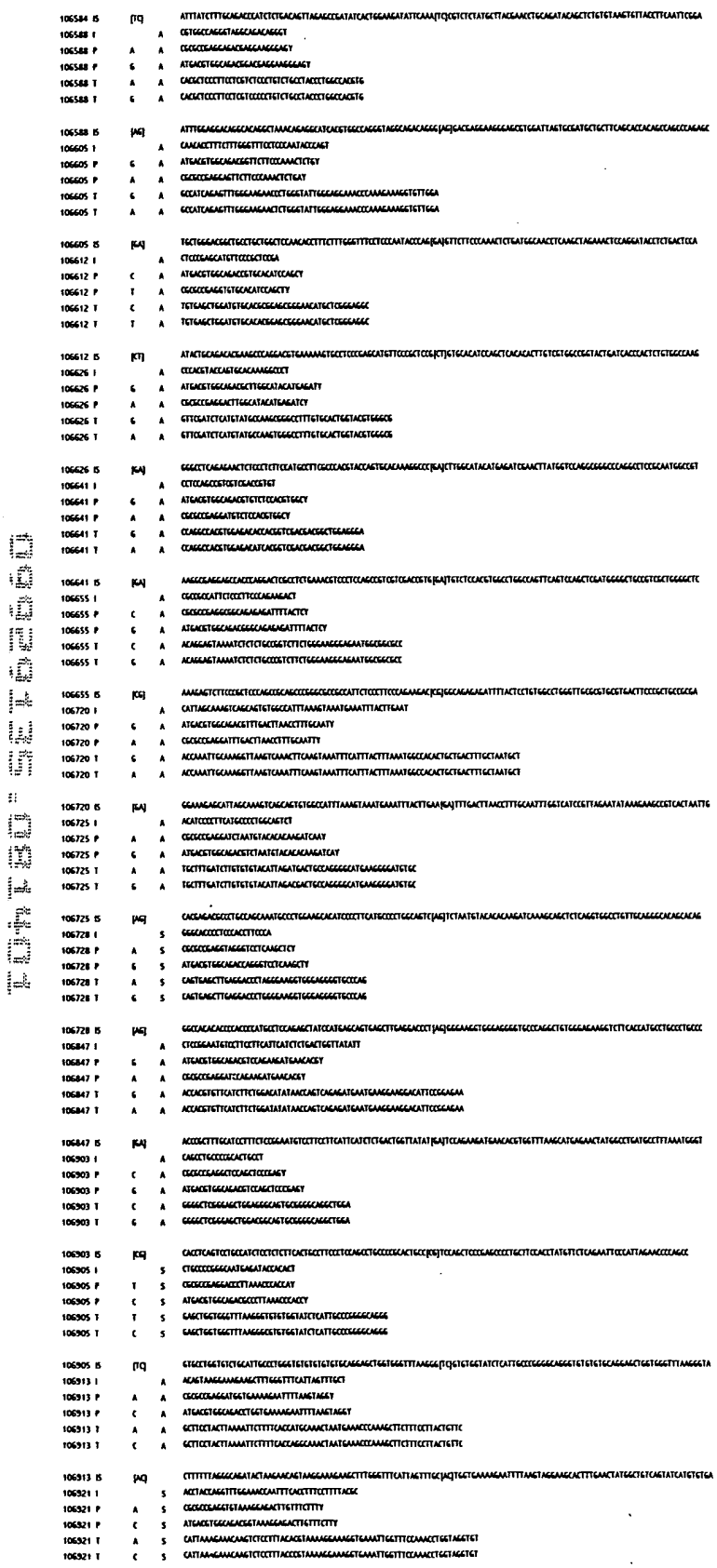
104643 IS      [CG]      AGACCCCAAACGTTACCATTCCCCCCATCTCTTCCTACCCACCCTGCCTATCTGGCCTCT[CG]ACAAGGGGAGGGGAGGAGACAGGGAGGGCAGGGGCAGGGAGGCAGGGGAGGAGGGGCGG
104653 I               S GTTTGAGTGTCCGGGTTCGAGAGCTGCAGAGT
104653 P       C       S ATGACGTGGCAGACGATGCTGCAGACCGAT
104653 P       T       S CGCGCCGAGGAATGCTGCAGACCGAT
104653 T       C       S TTTCTCGGTGTCAGCATCCTCTGCAGCTCTCGAACCCGACACTCAAACTG
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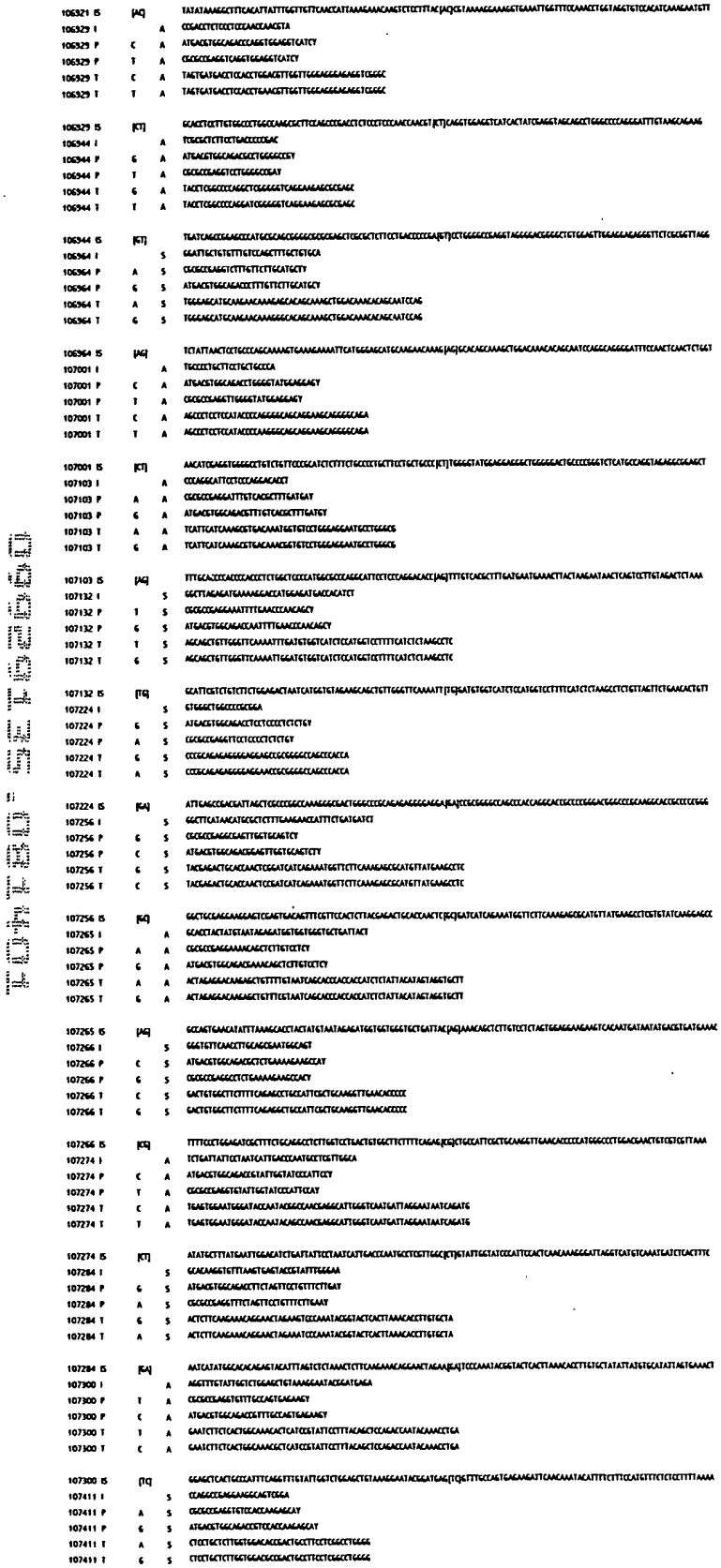
FIGURE 129G

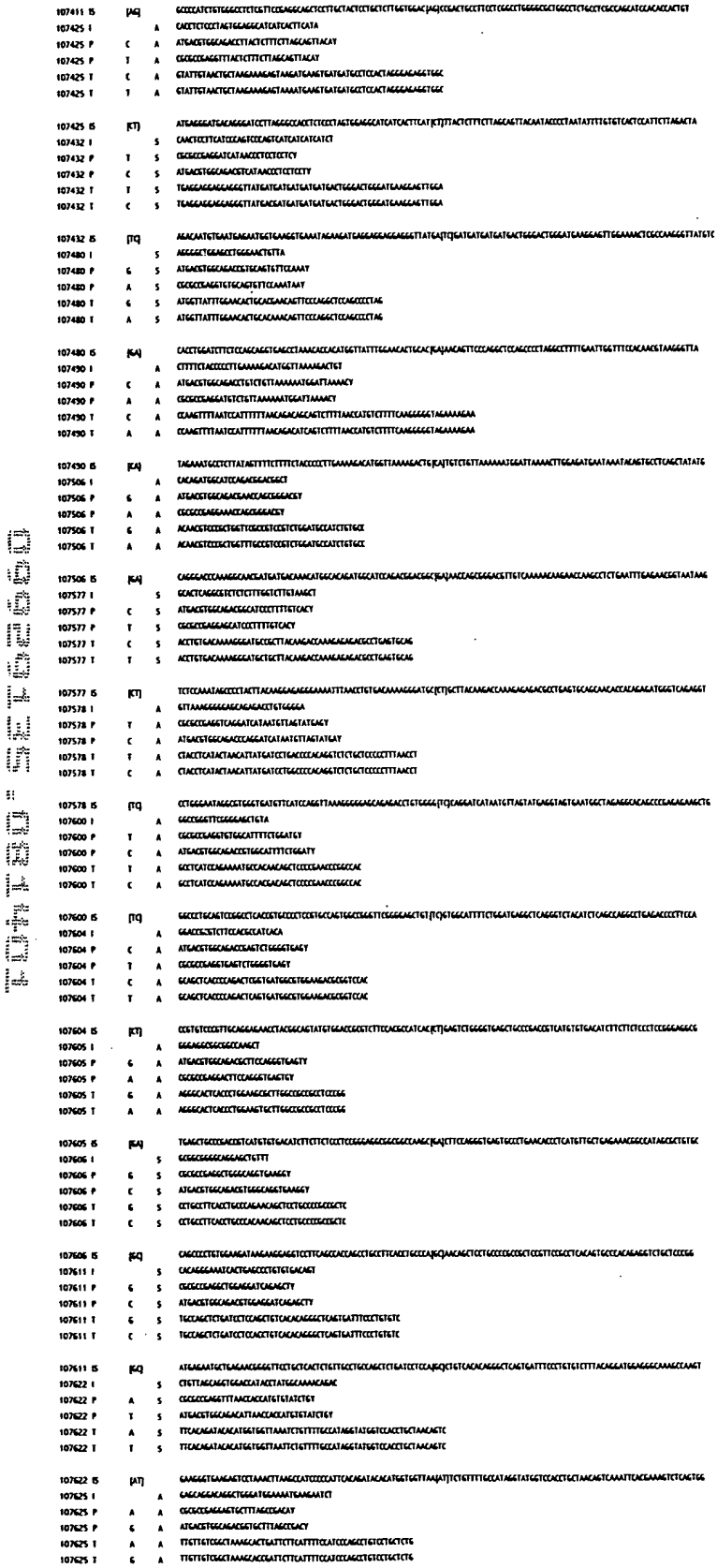


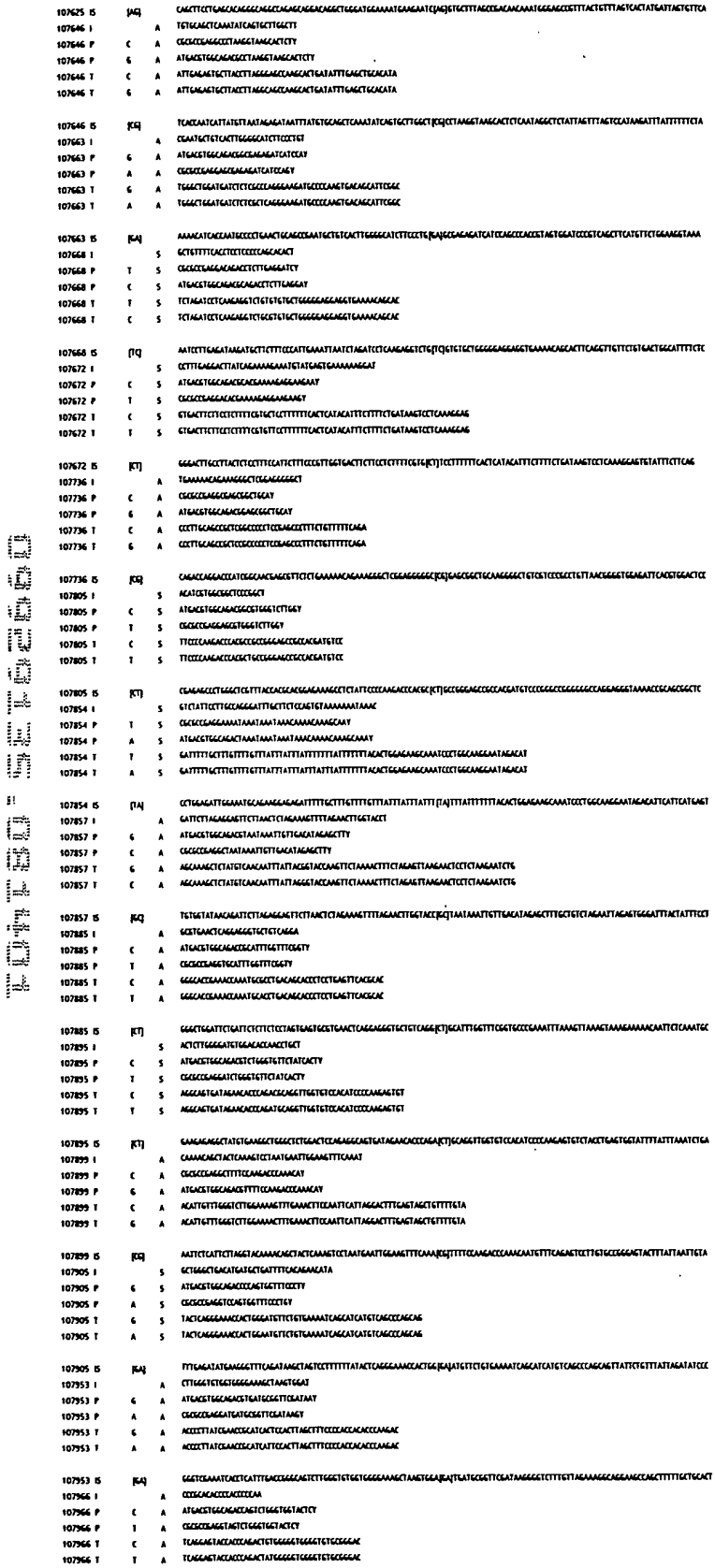


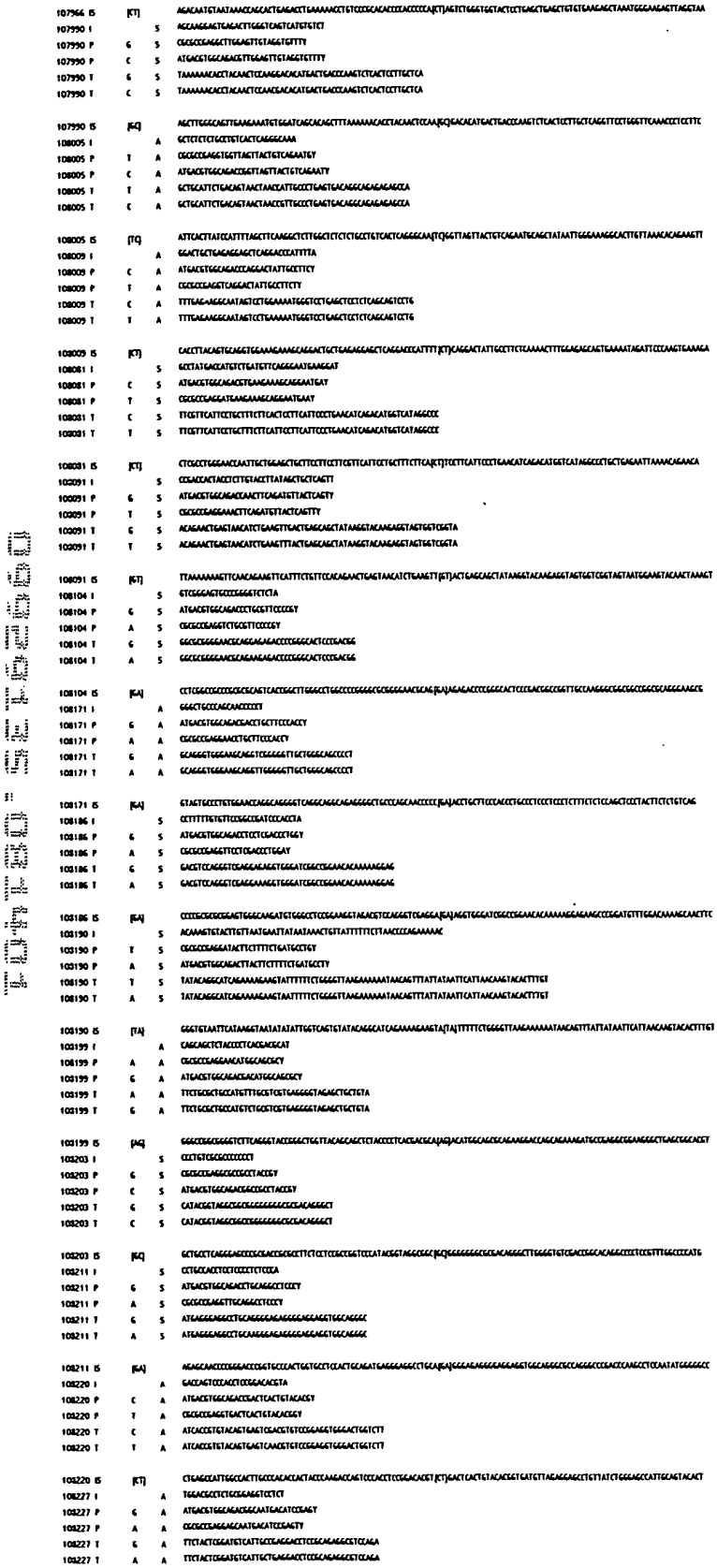












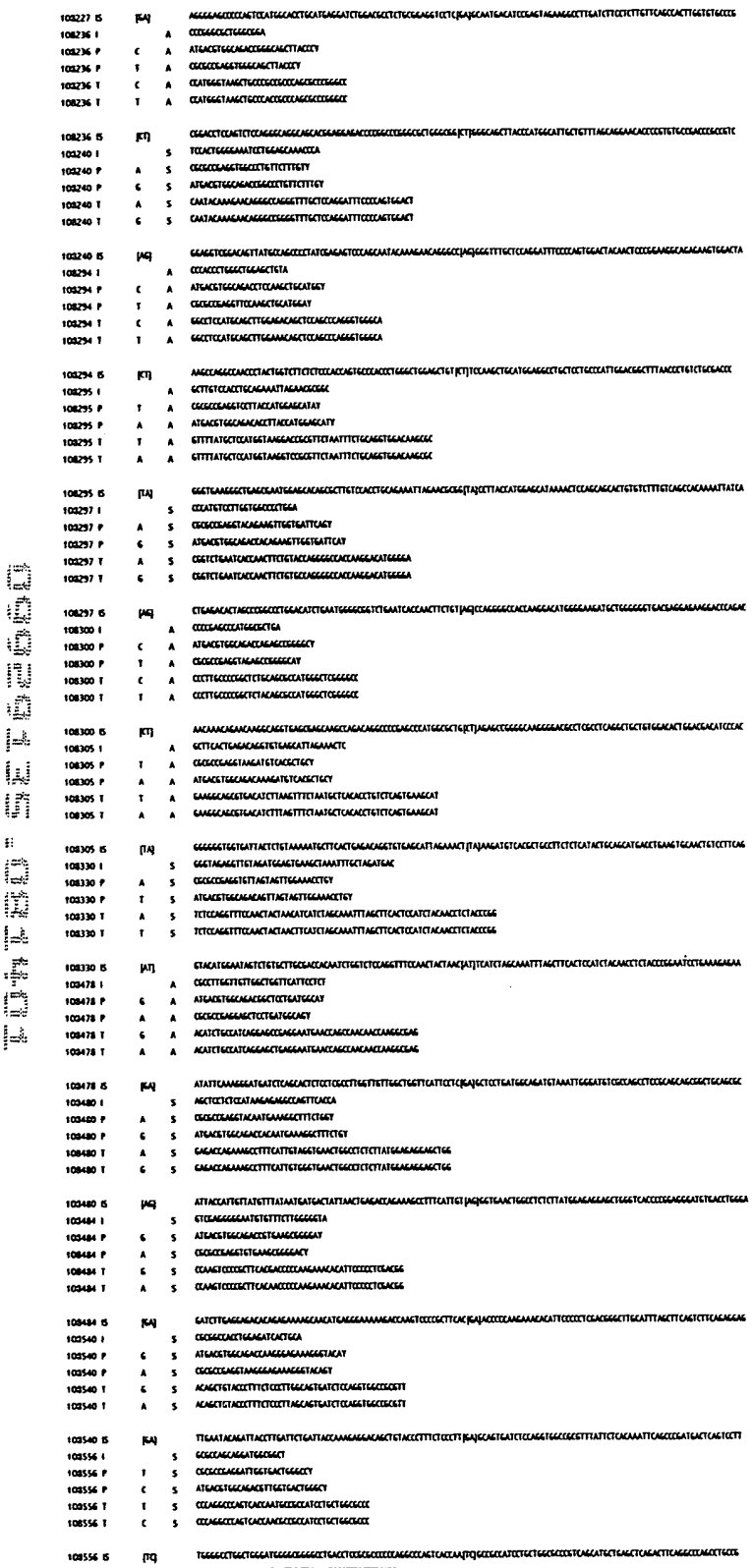
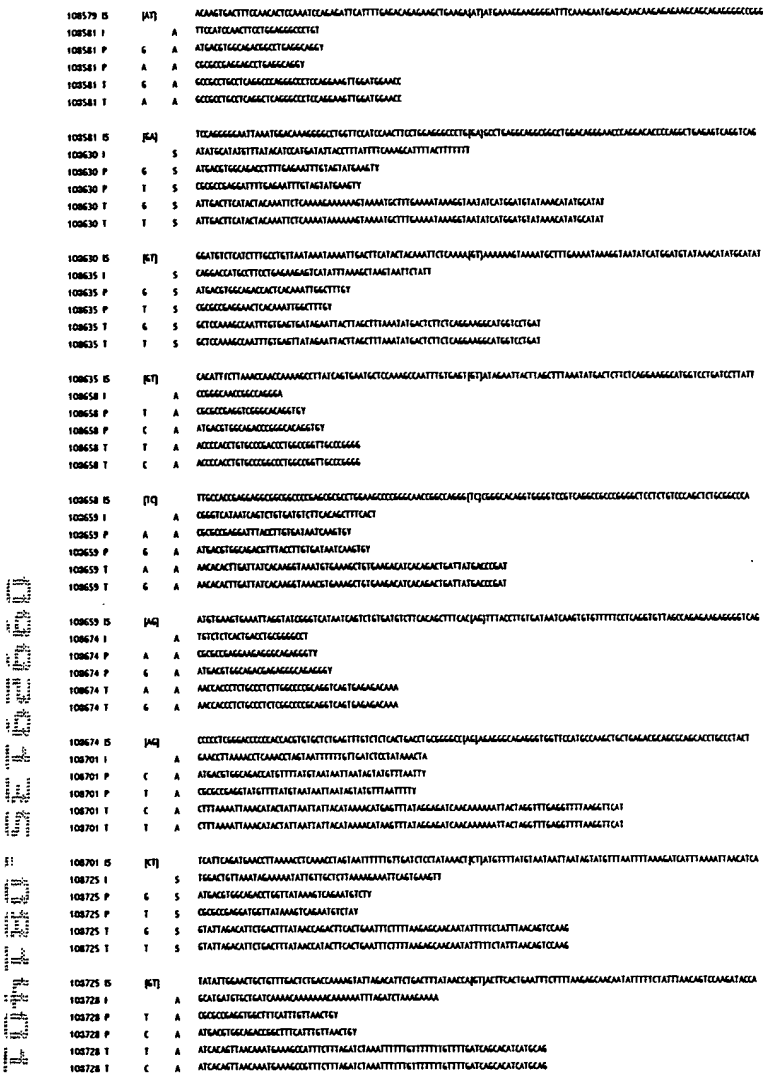


FIGURE 129G



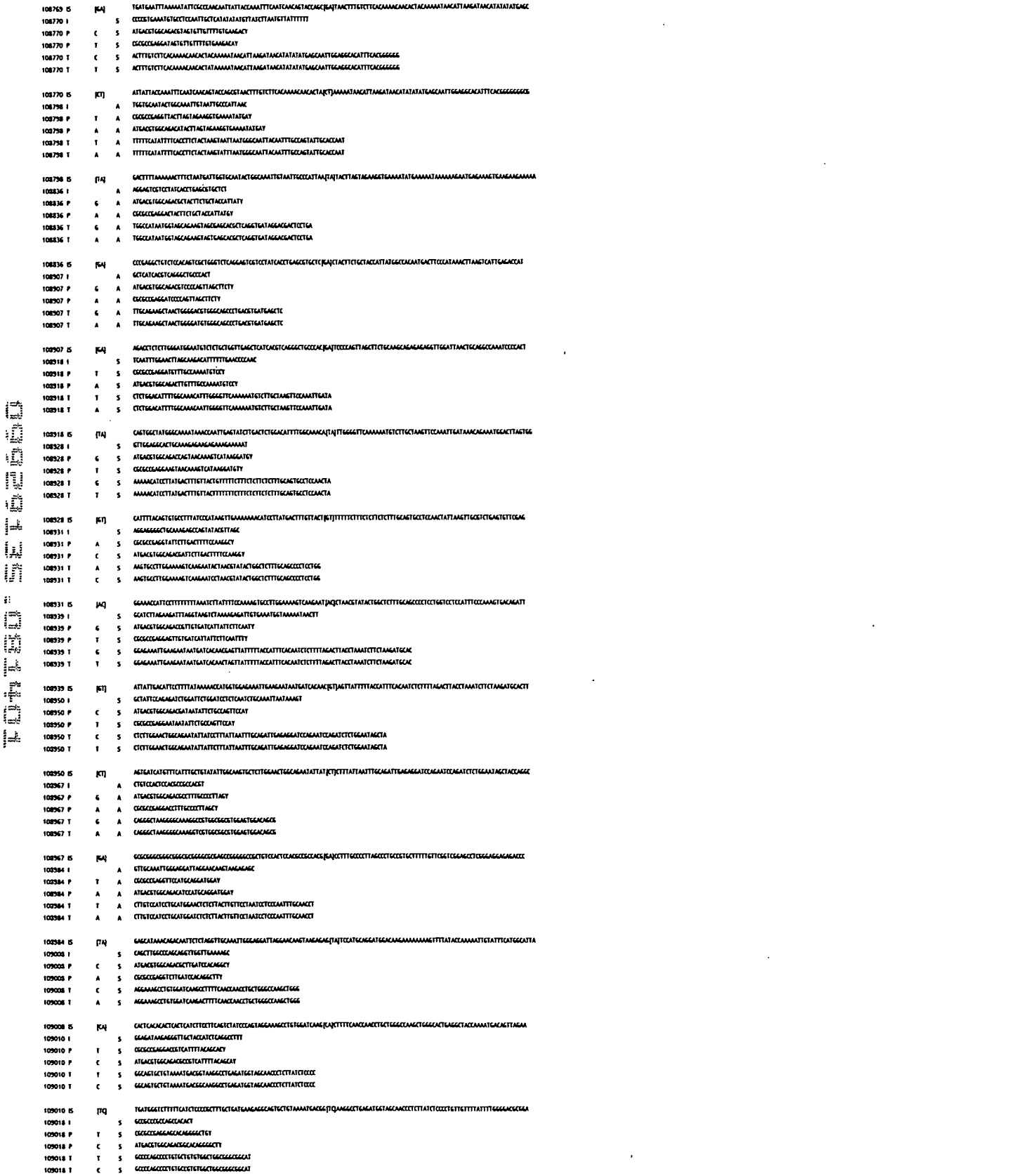
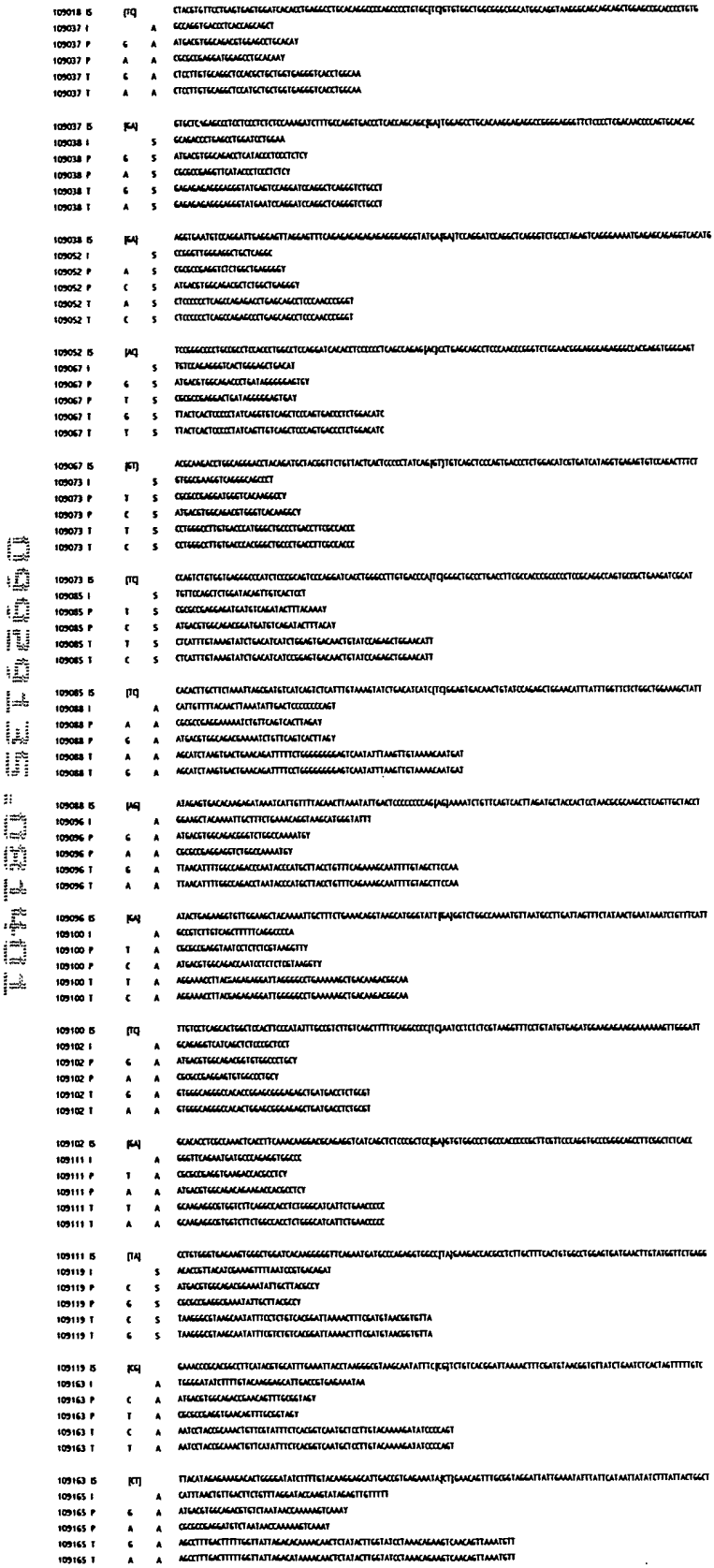


FIGURE 129G



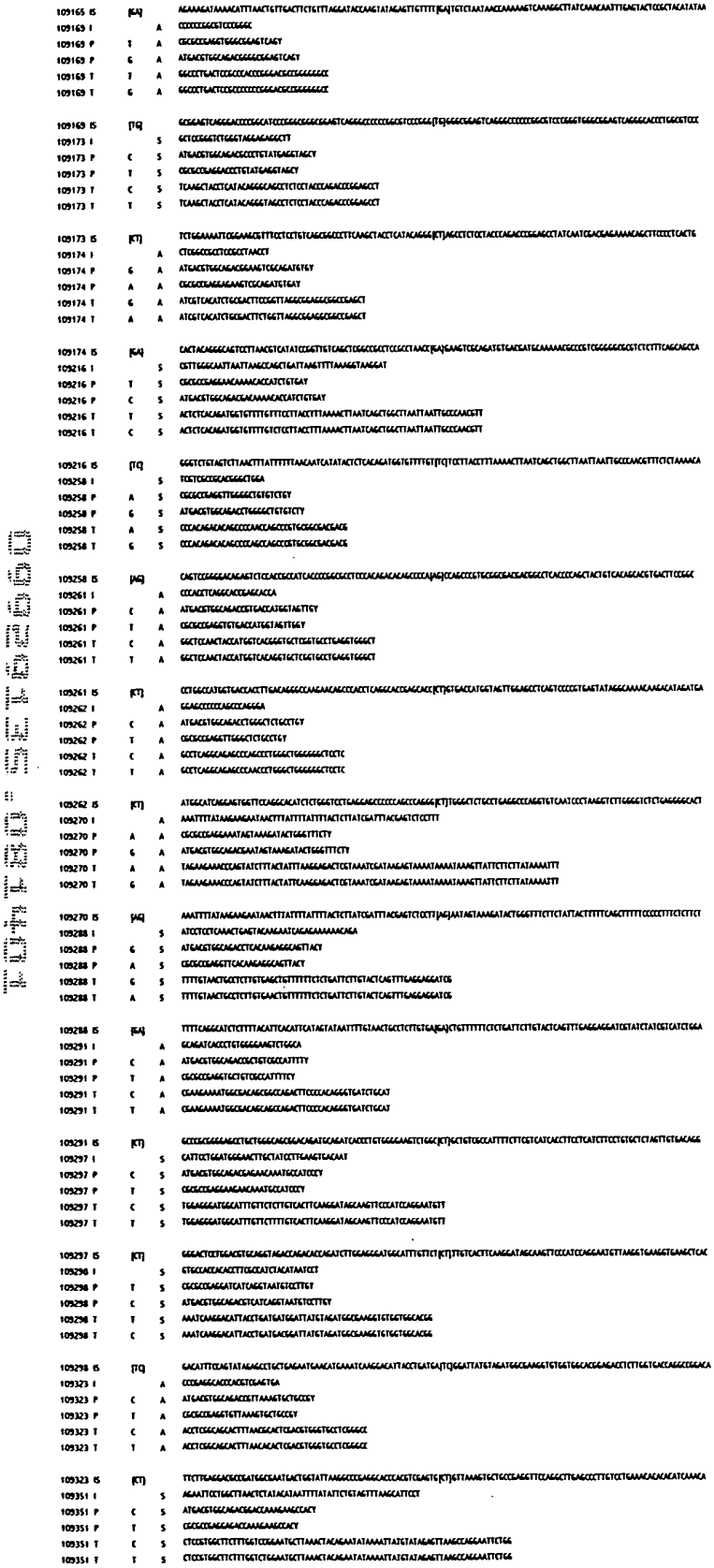


FIGURE 129G

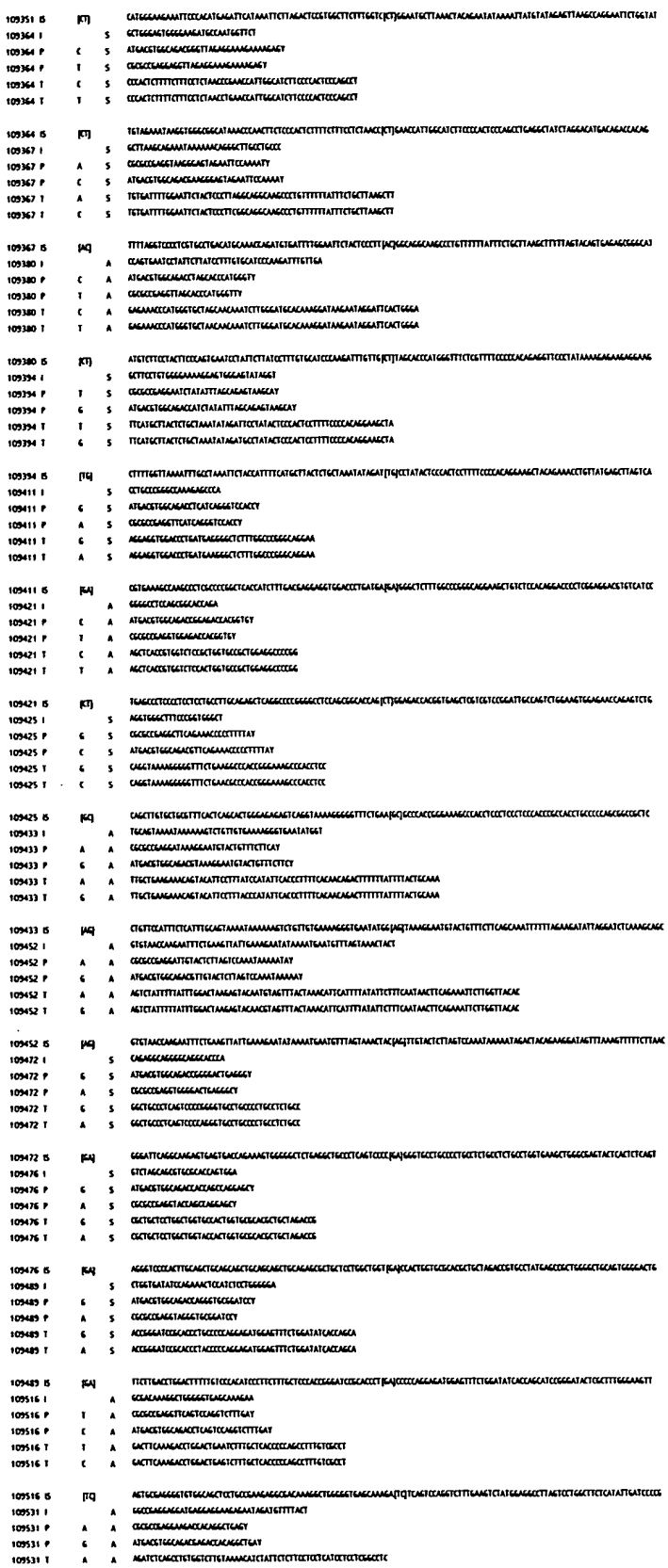


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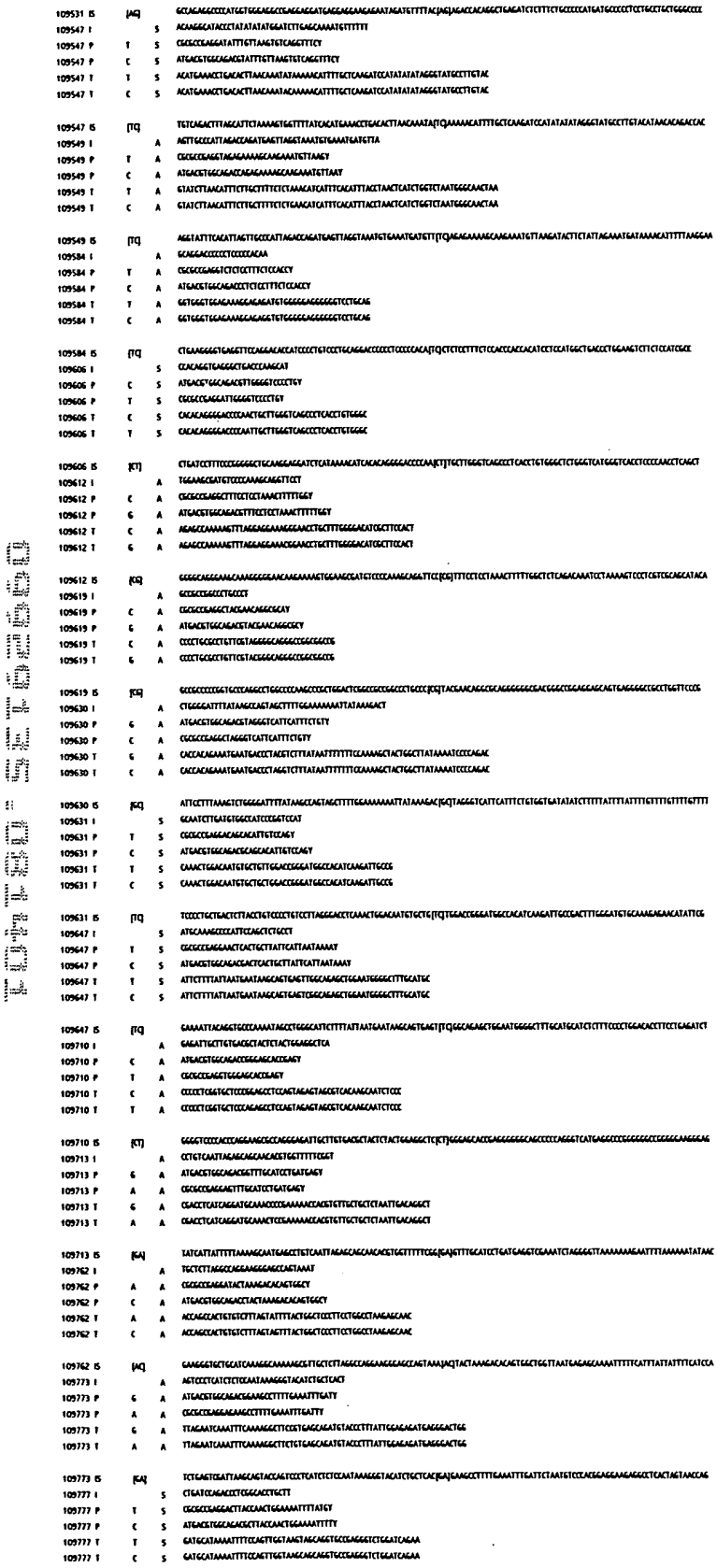


FIGURE 129G

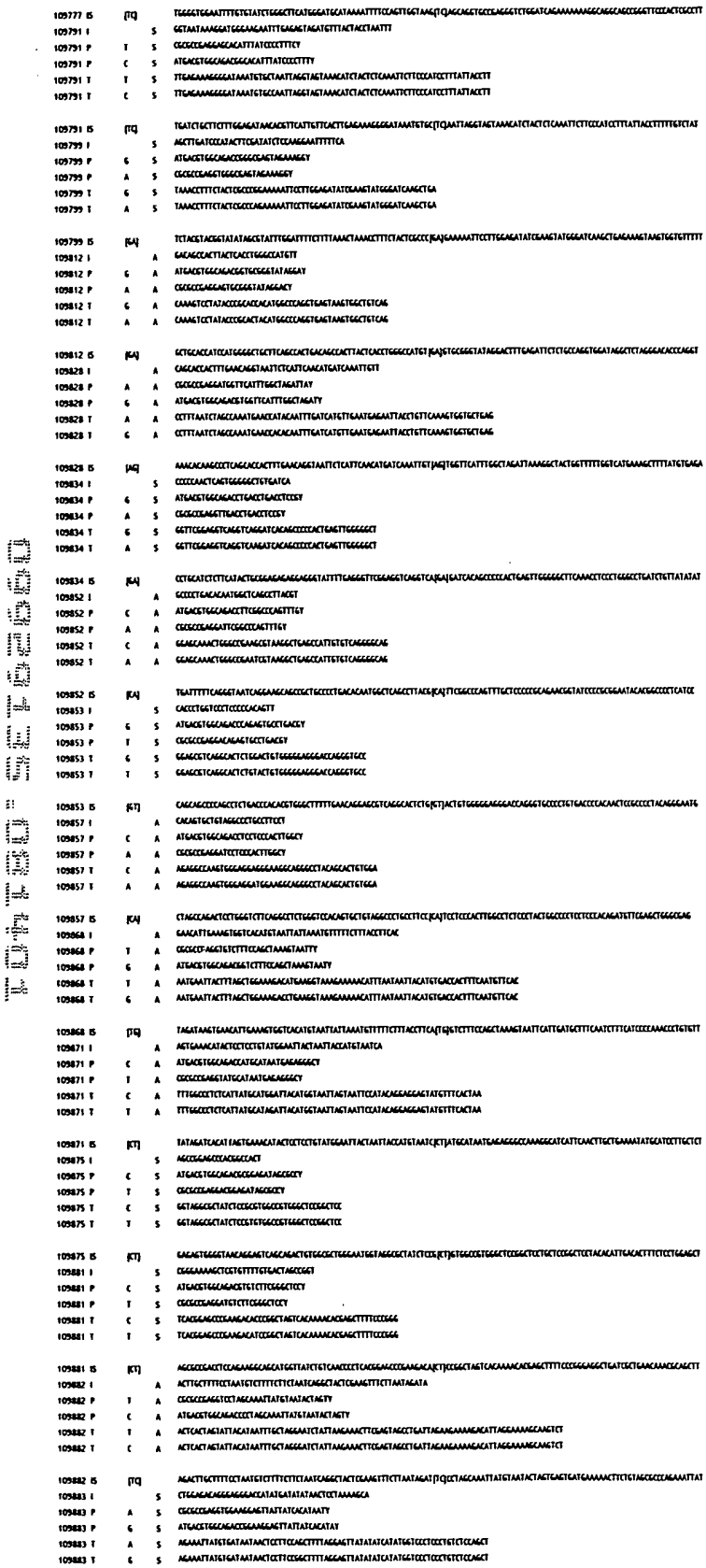
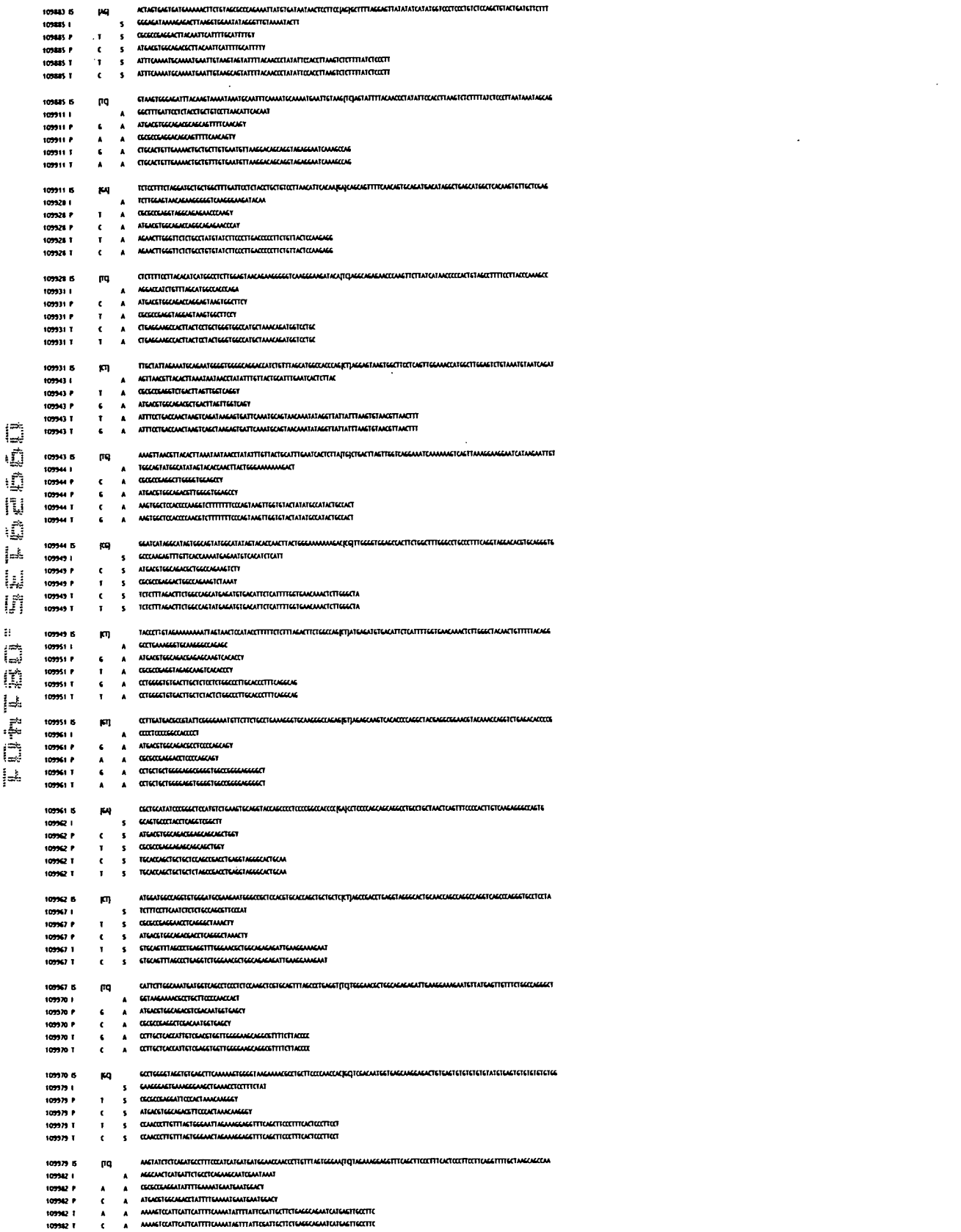
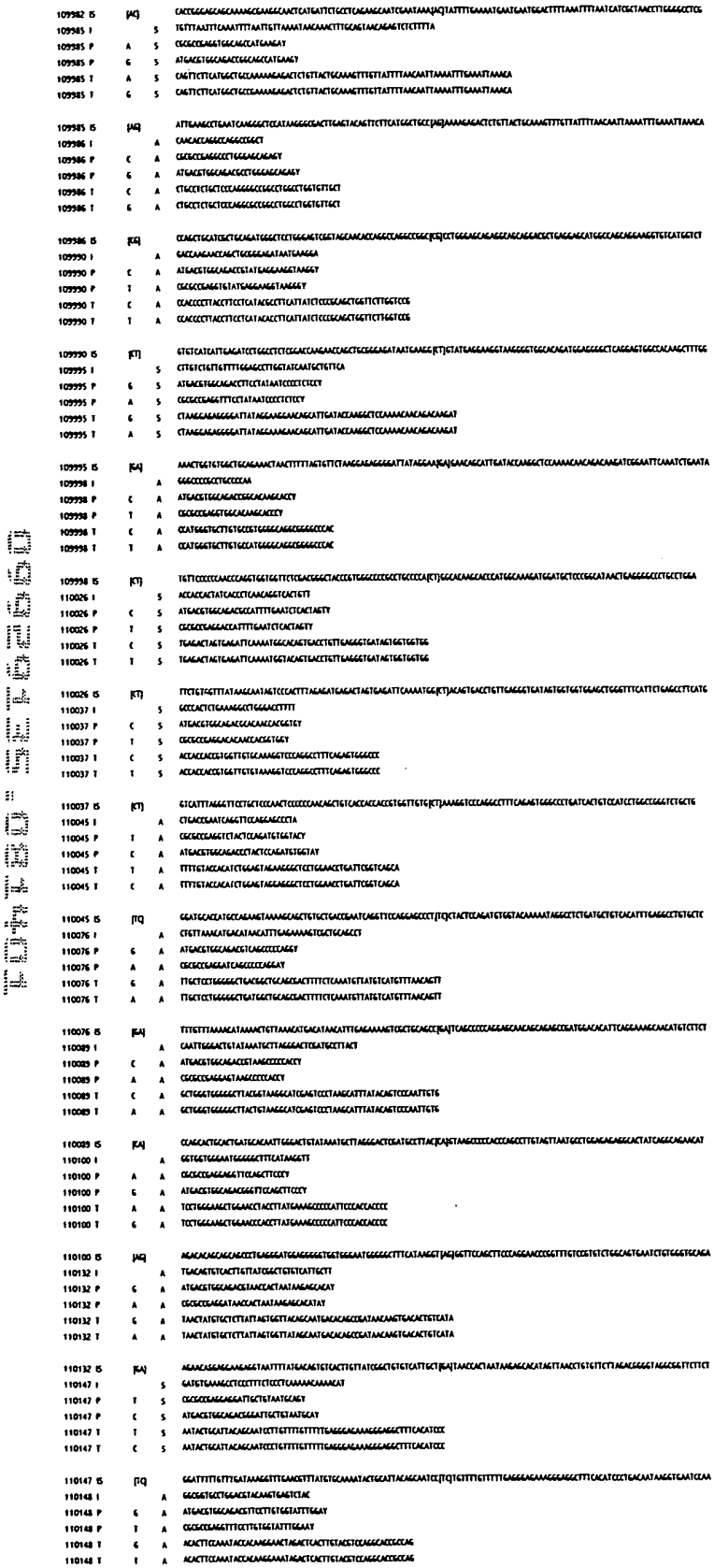


FIGURE 129G





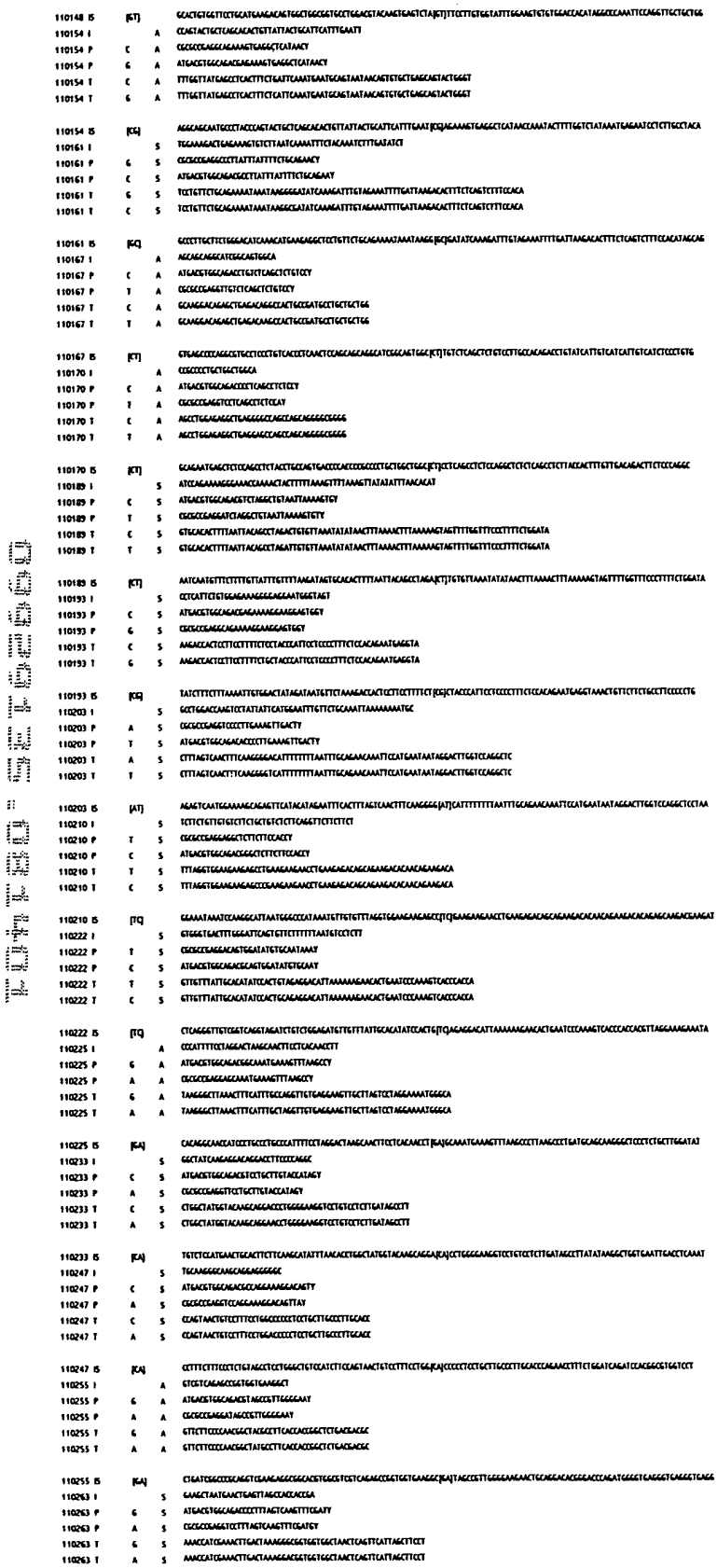
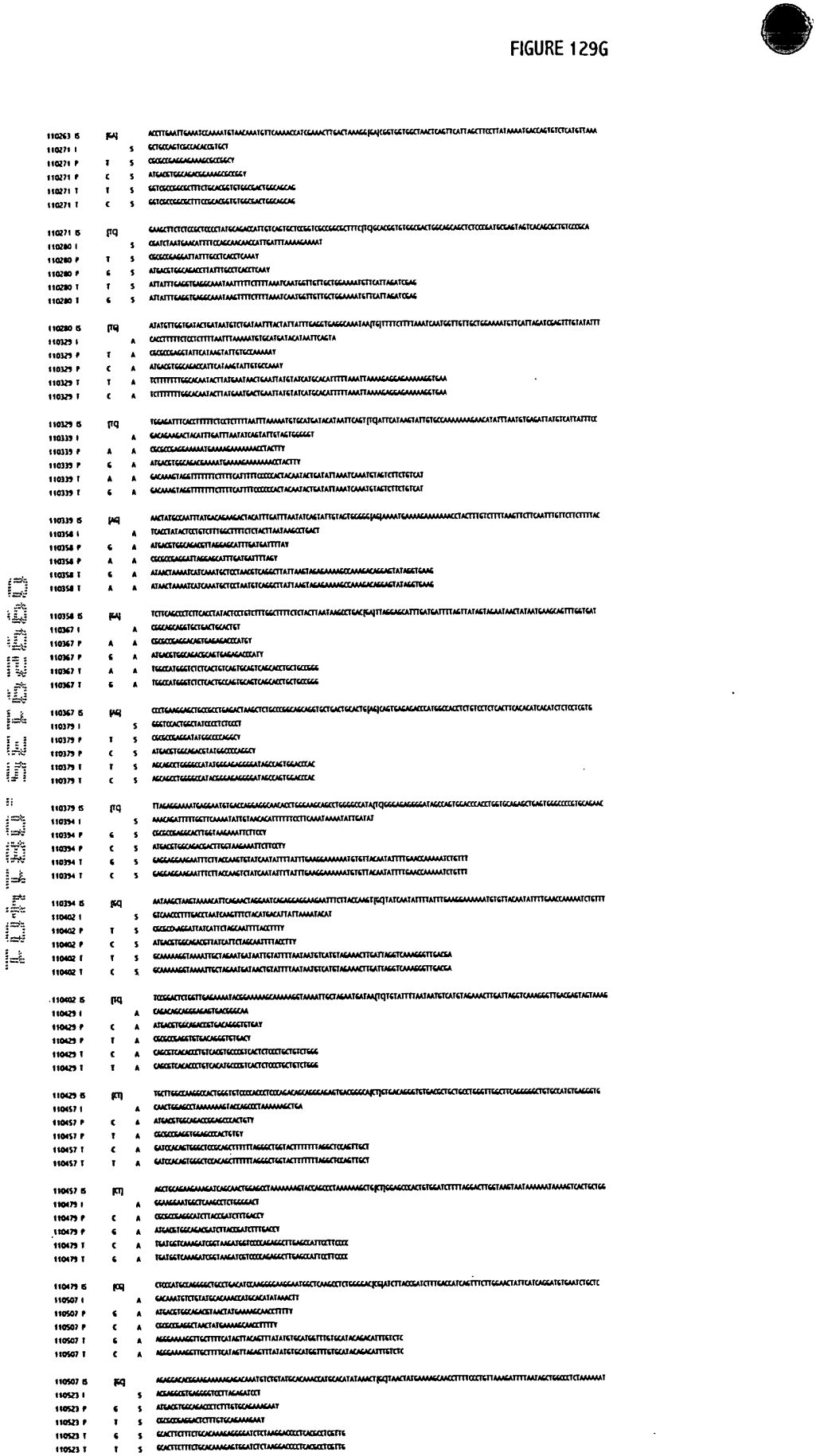


FIGURE 129G



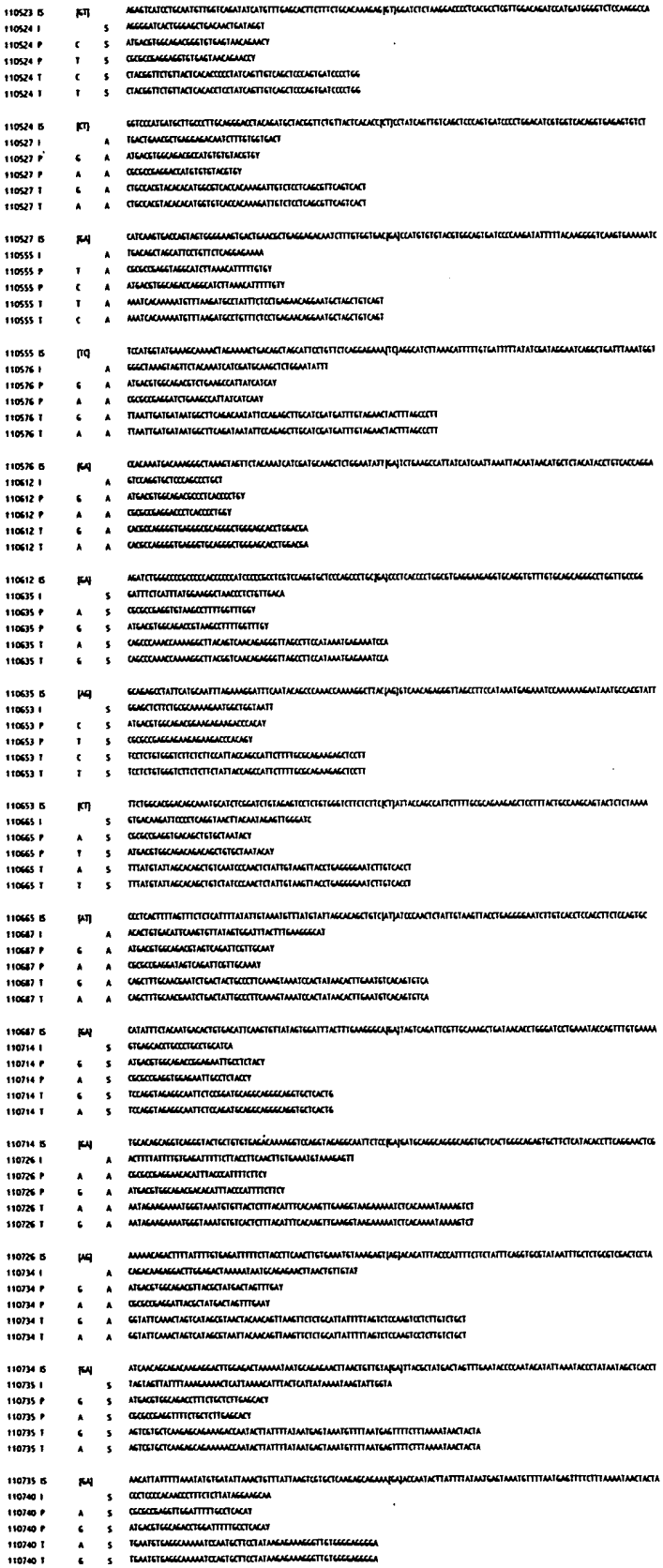


FIGURE 129G

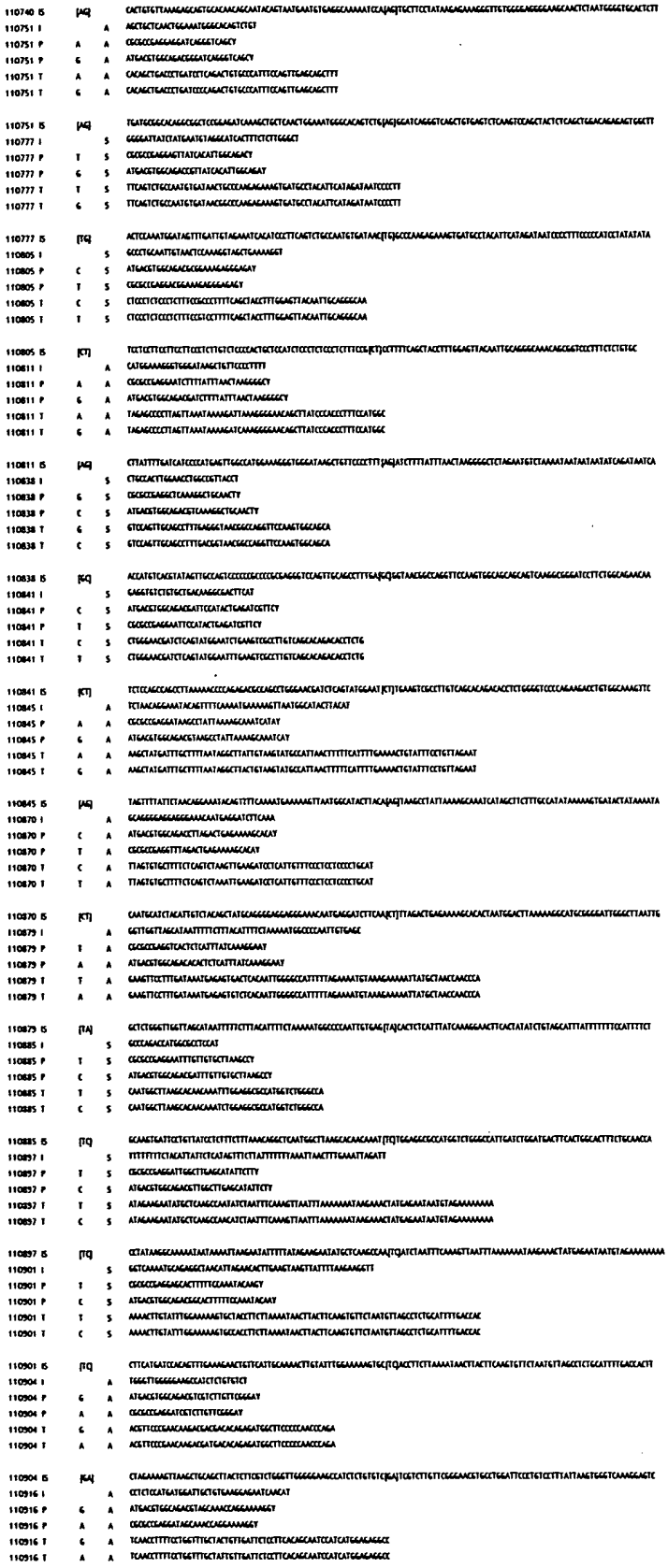


FIGURE 129G

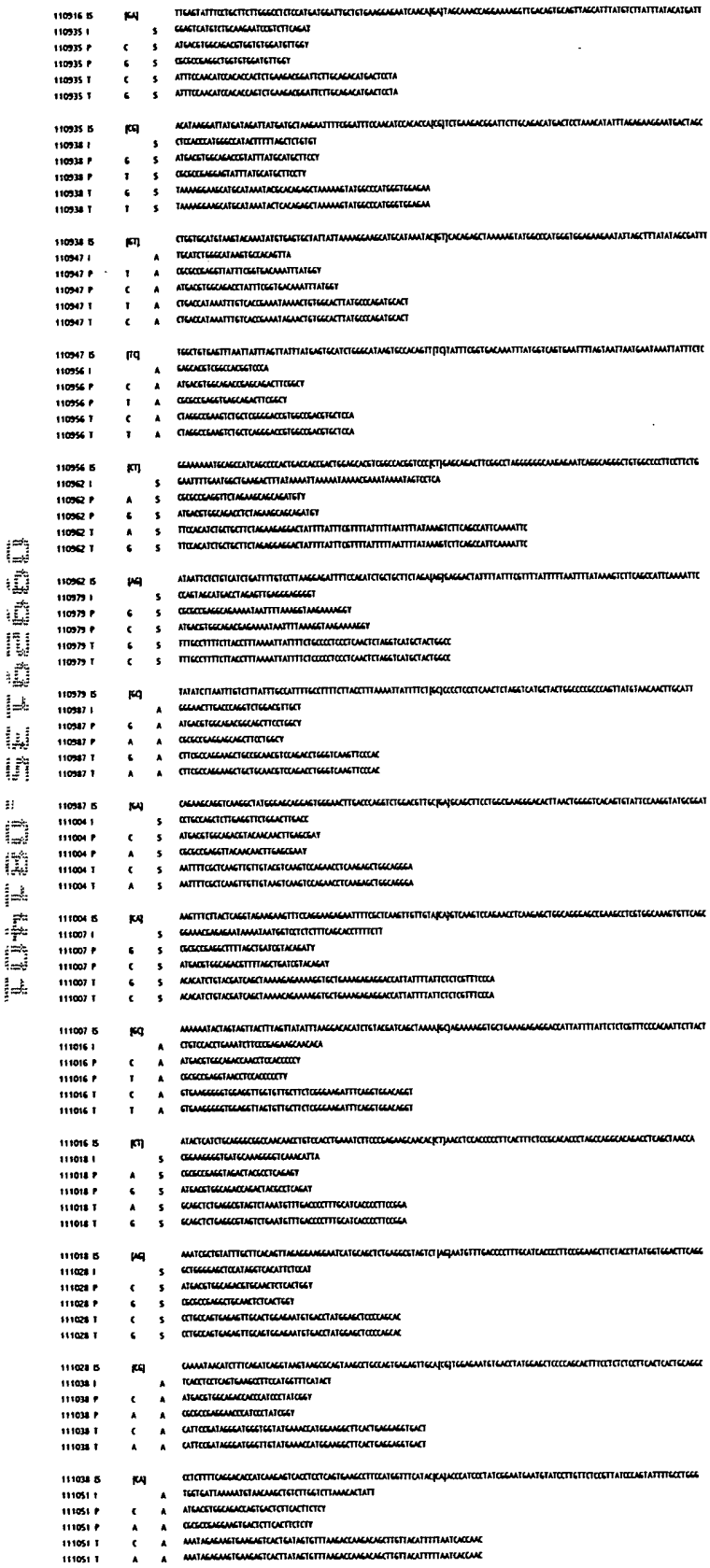


FIGURE 129G

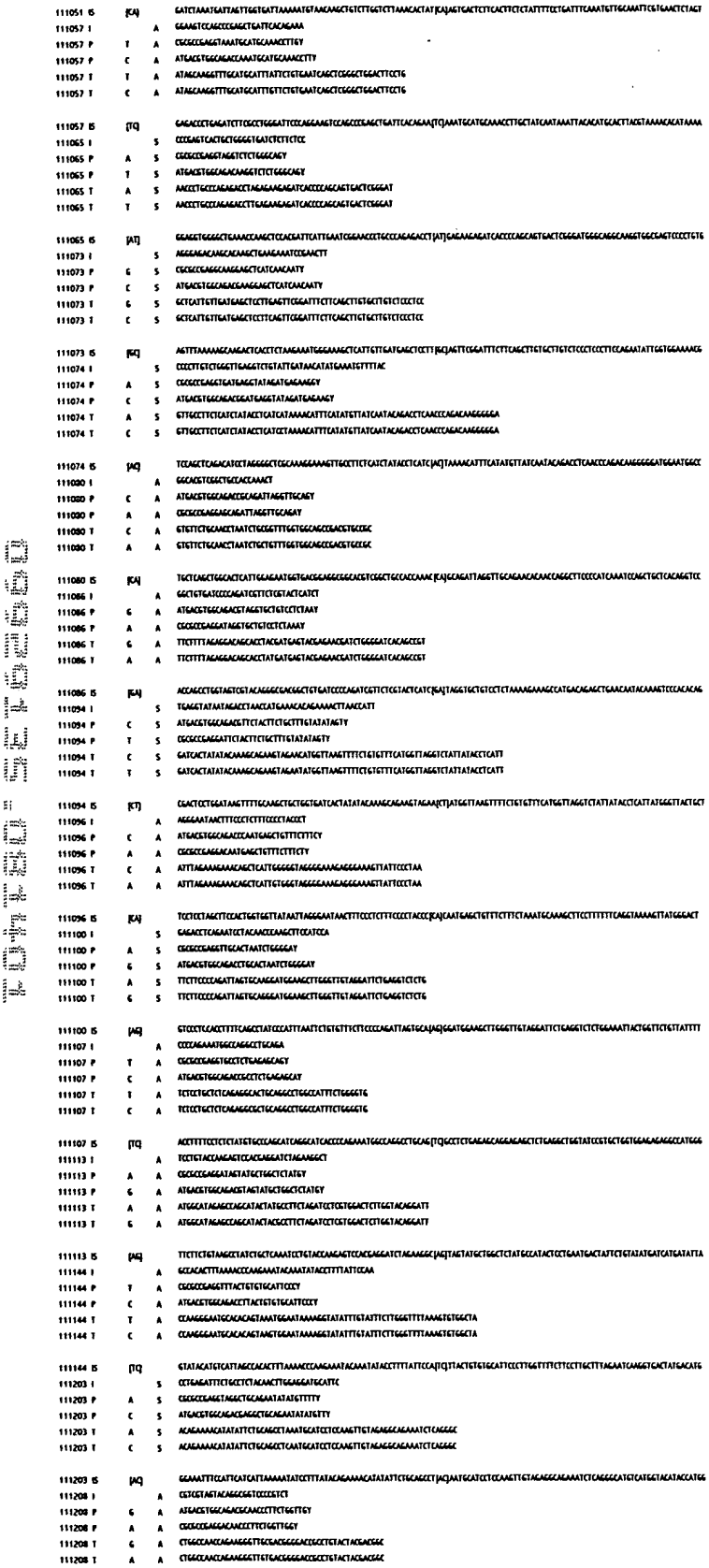
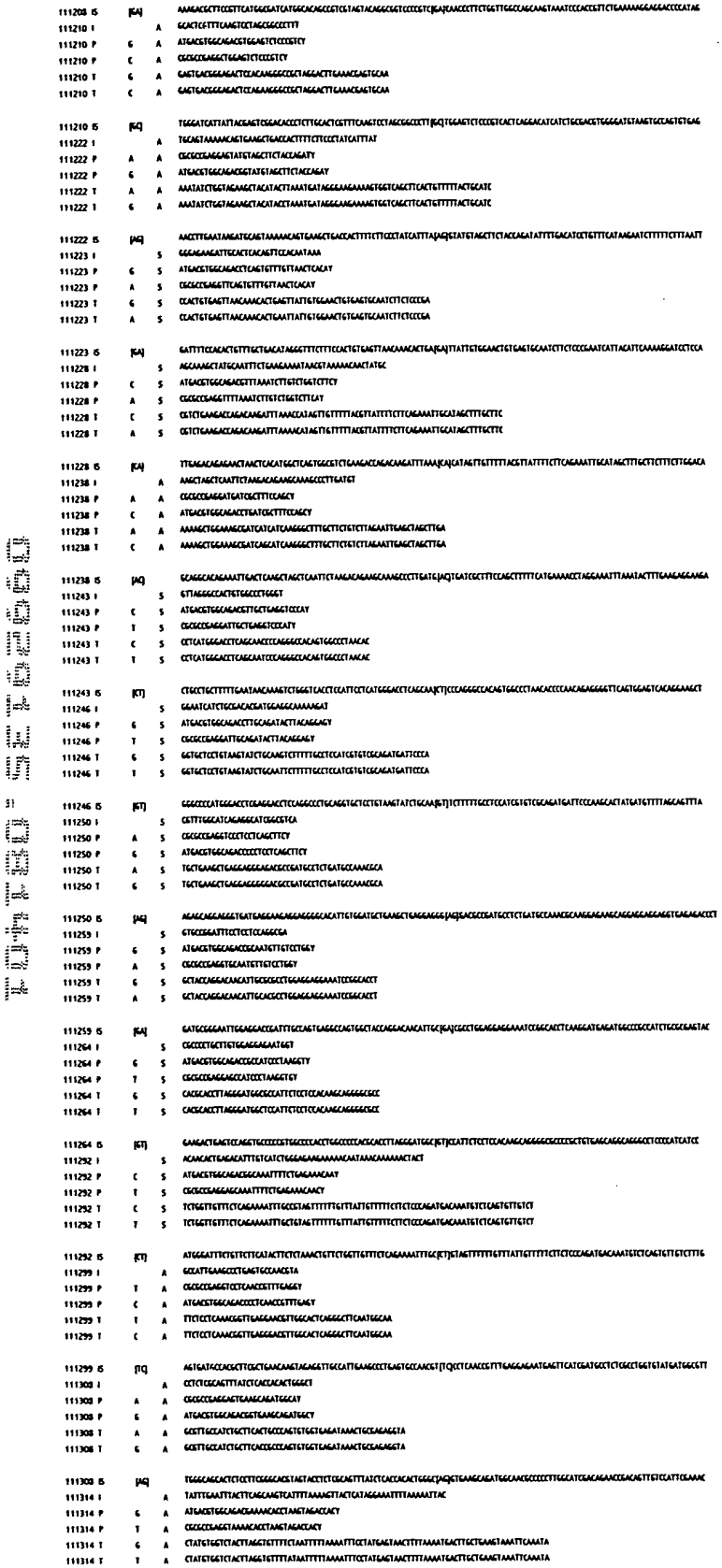


FIGURE 129G



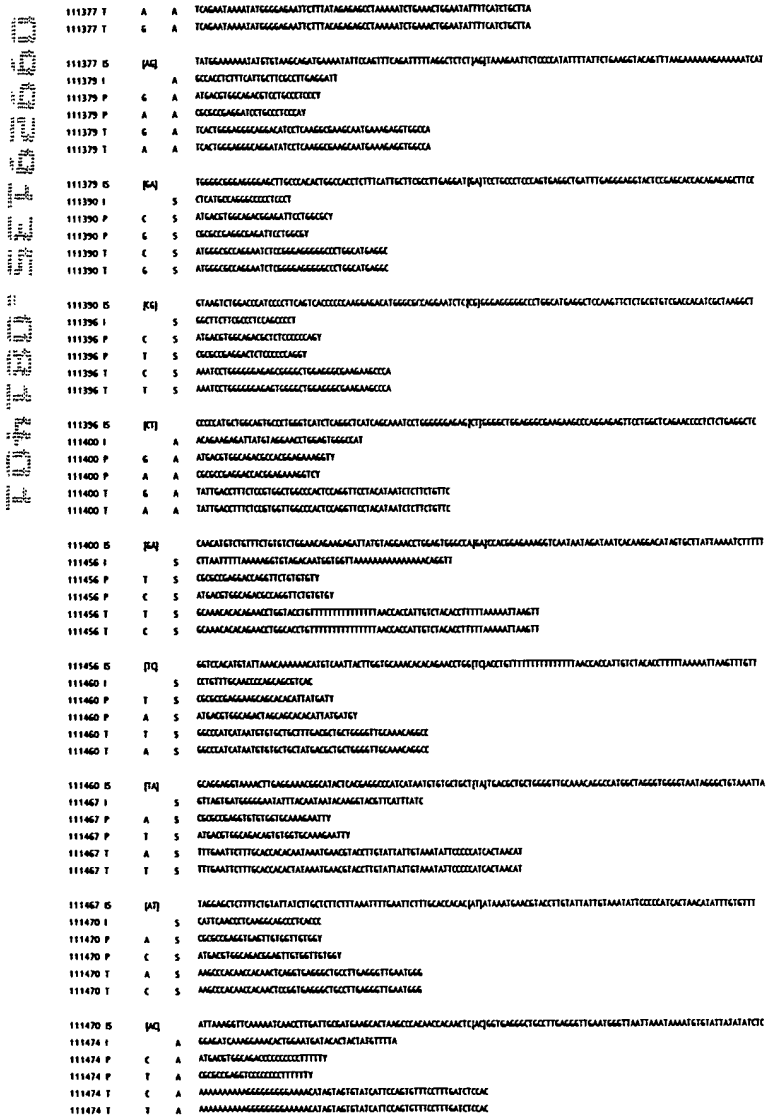
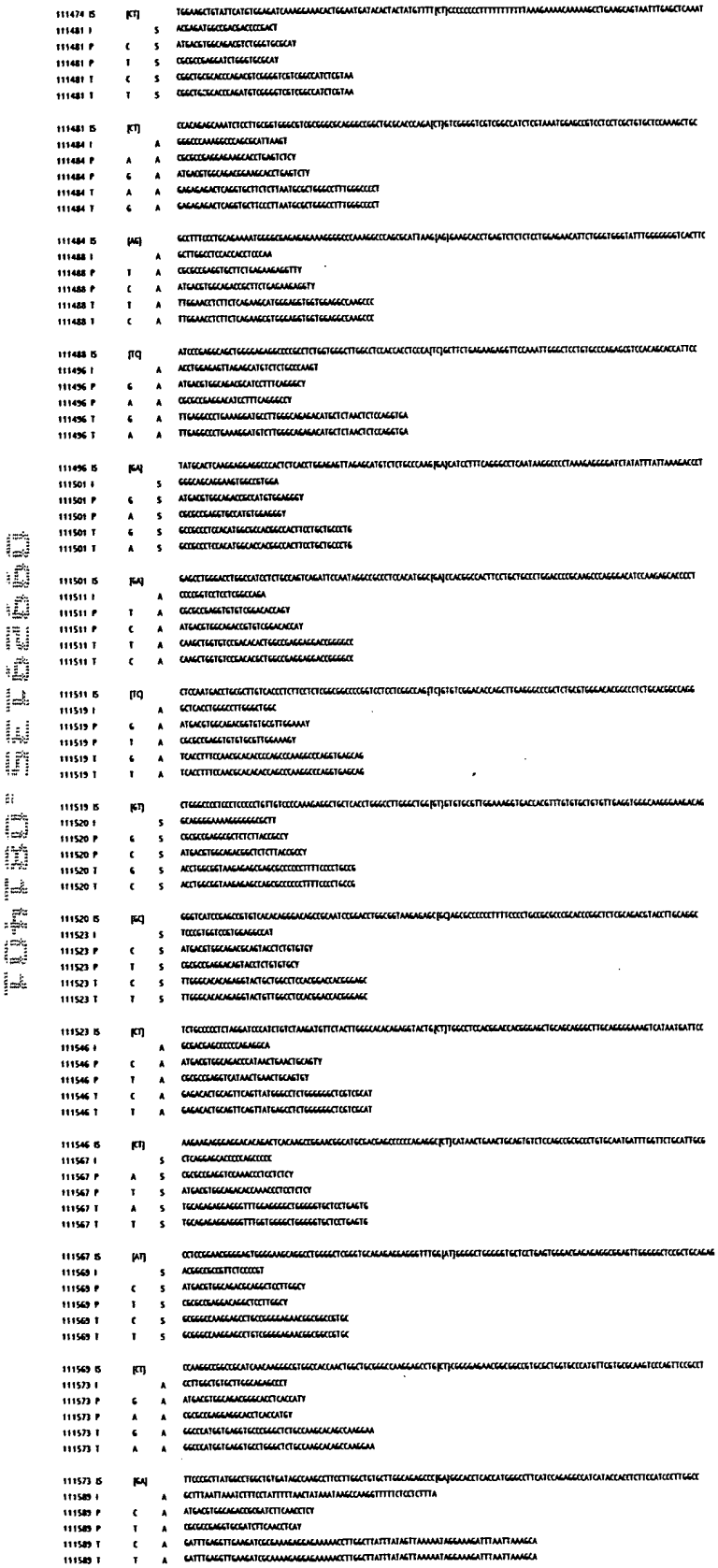


FIGURE 129G



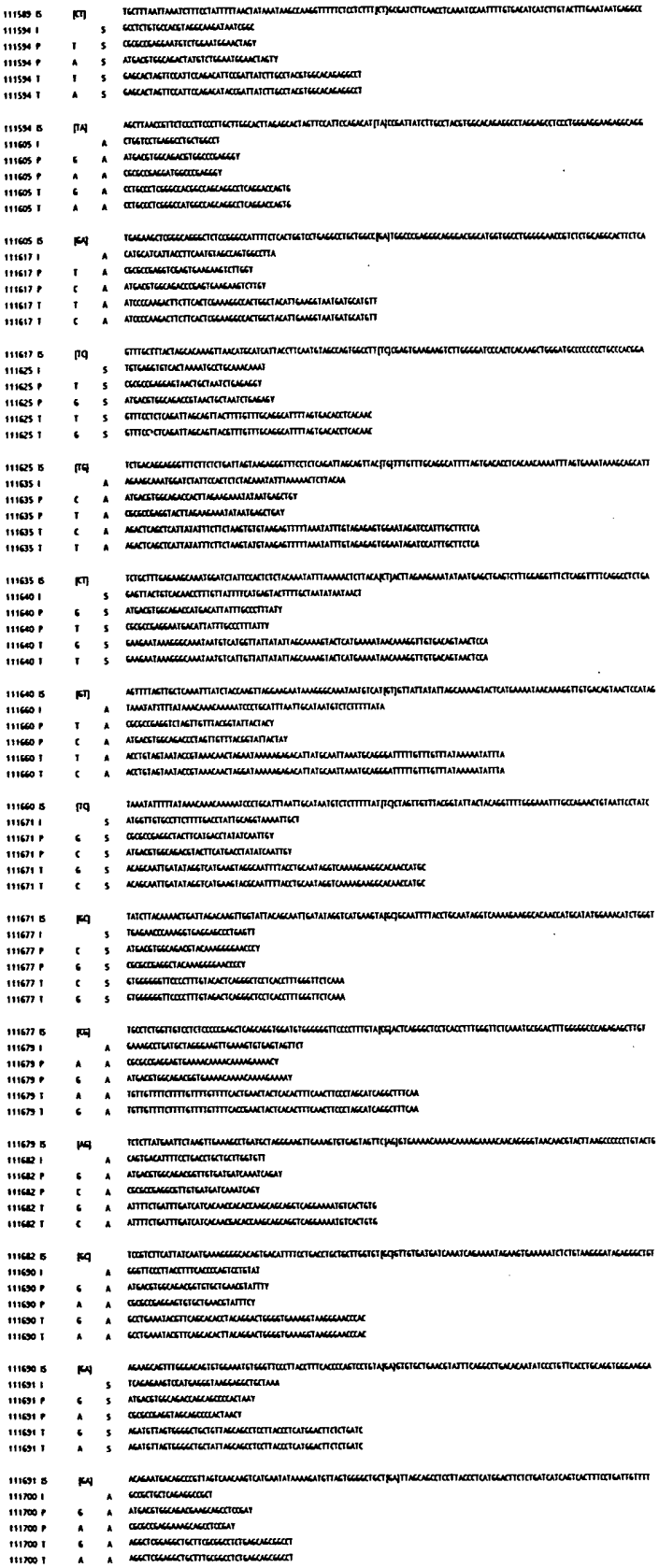


FIGURE 129G

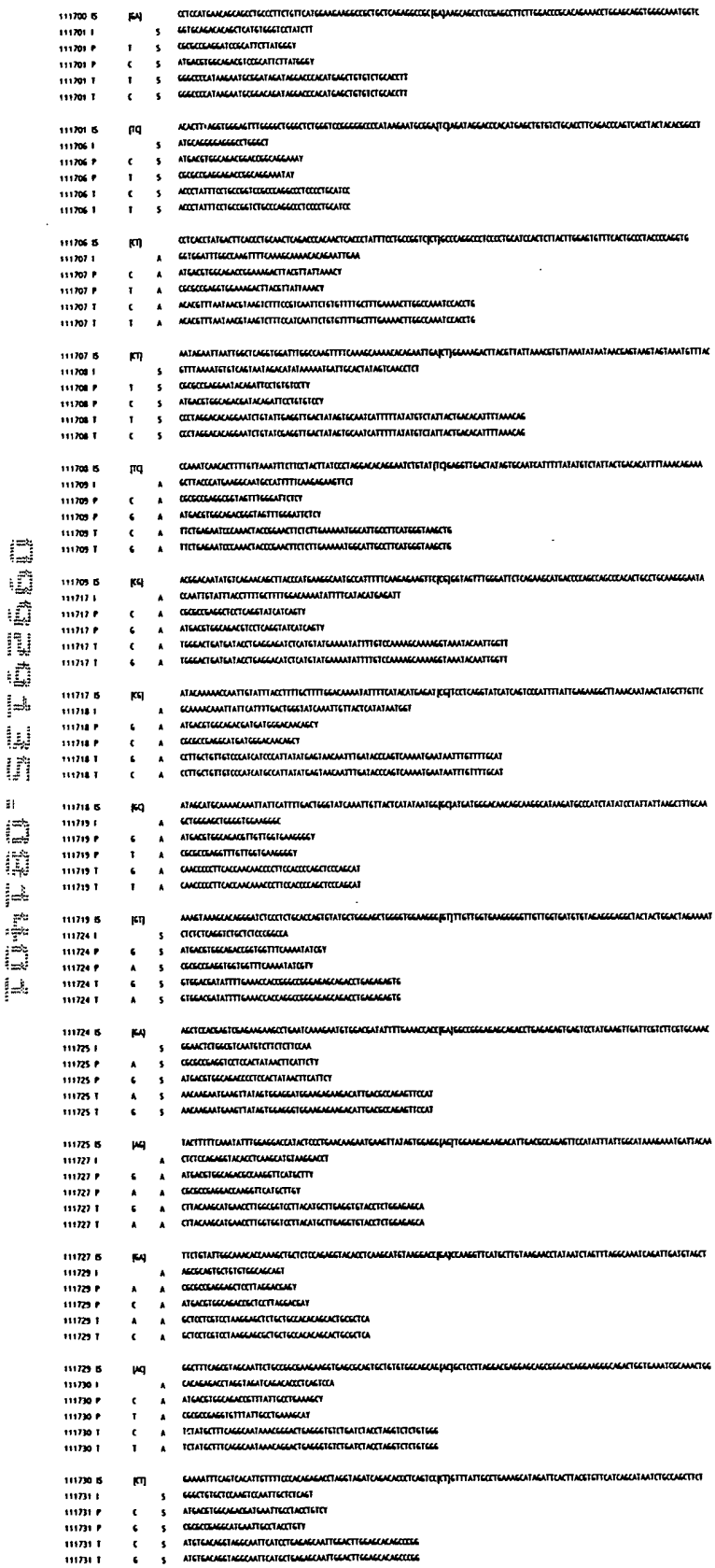
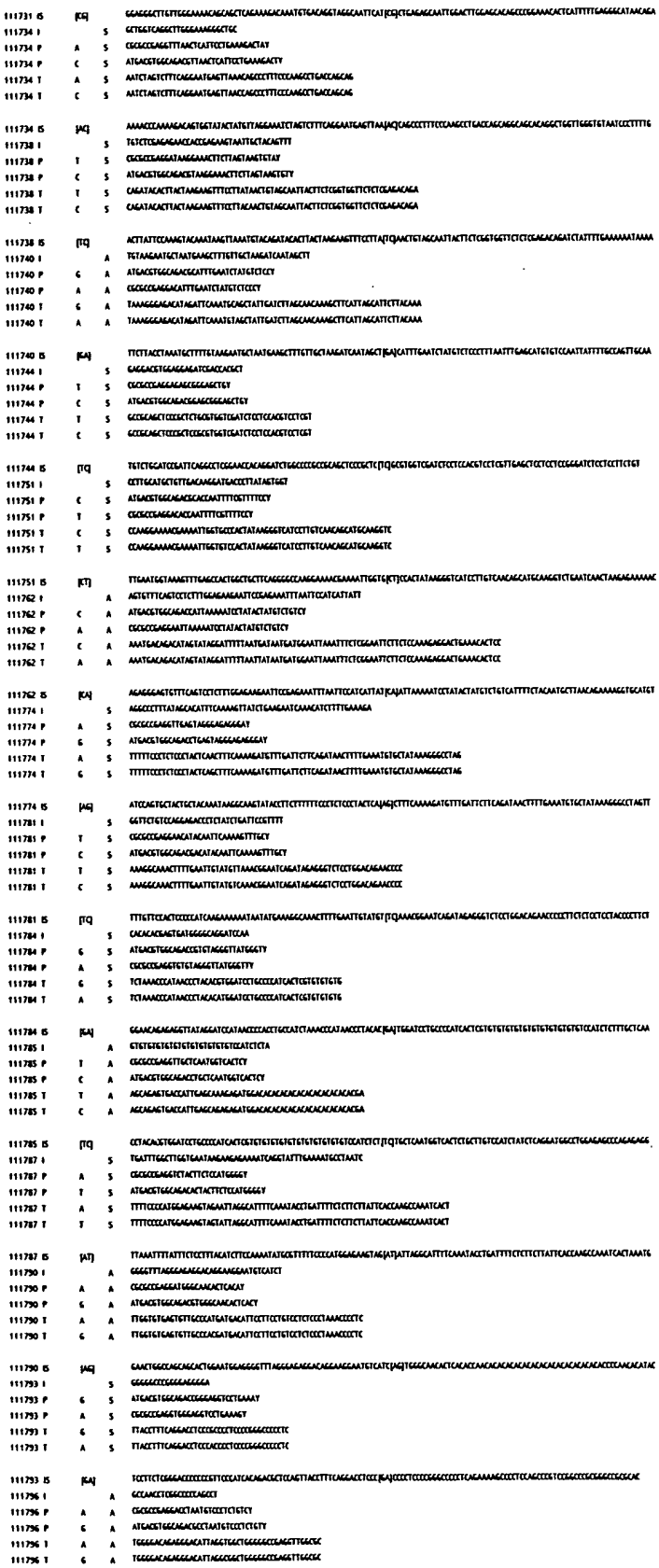
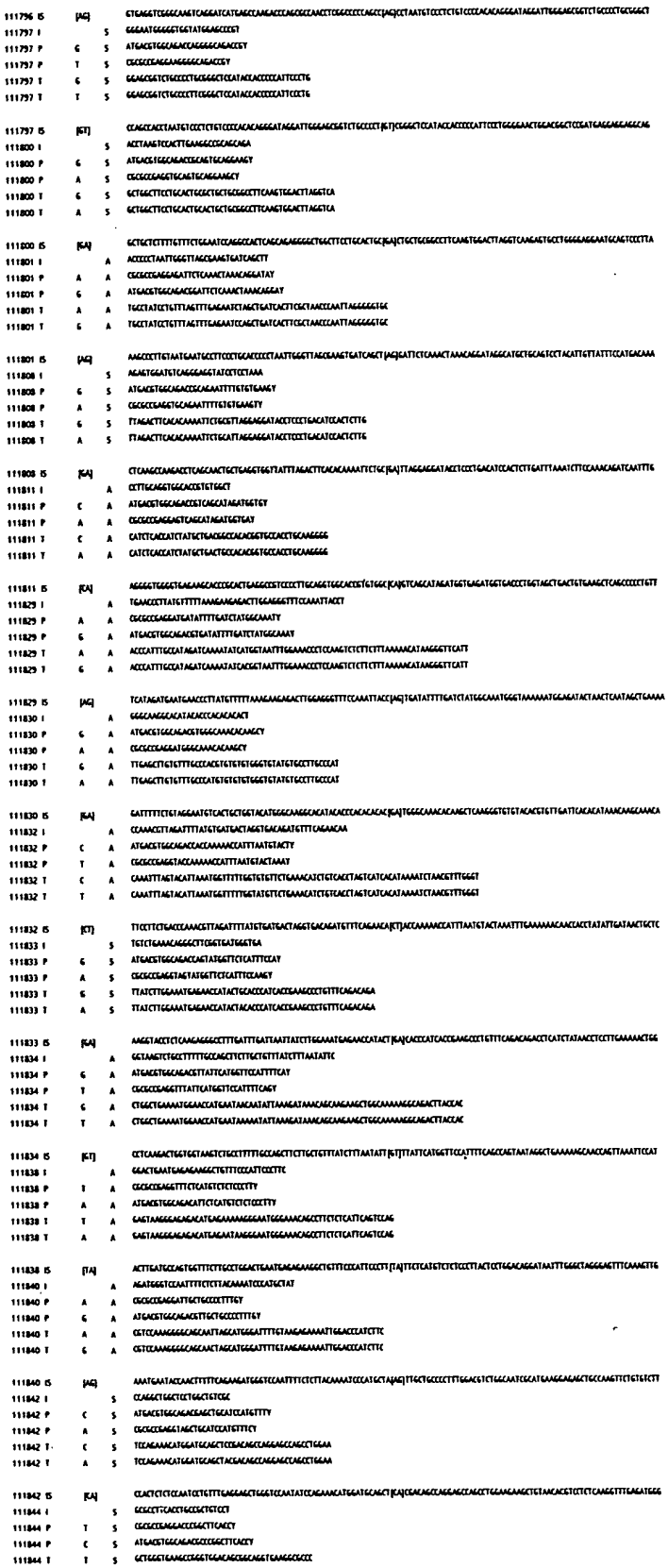


FIGURE 129G





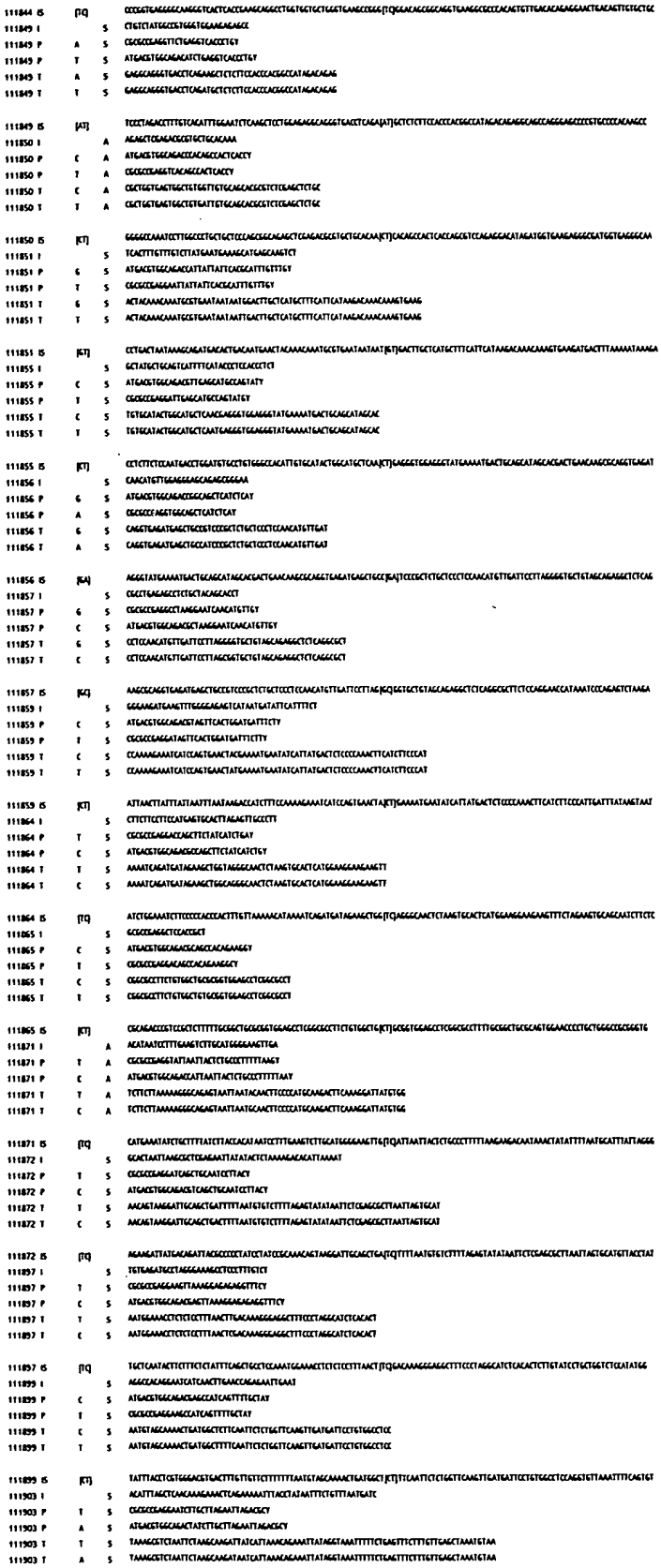


FIGURE 129G

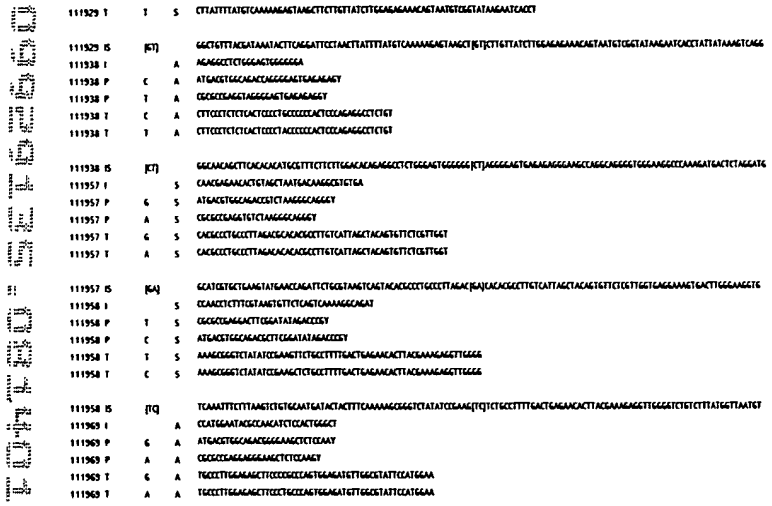


FIGURE 129G

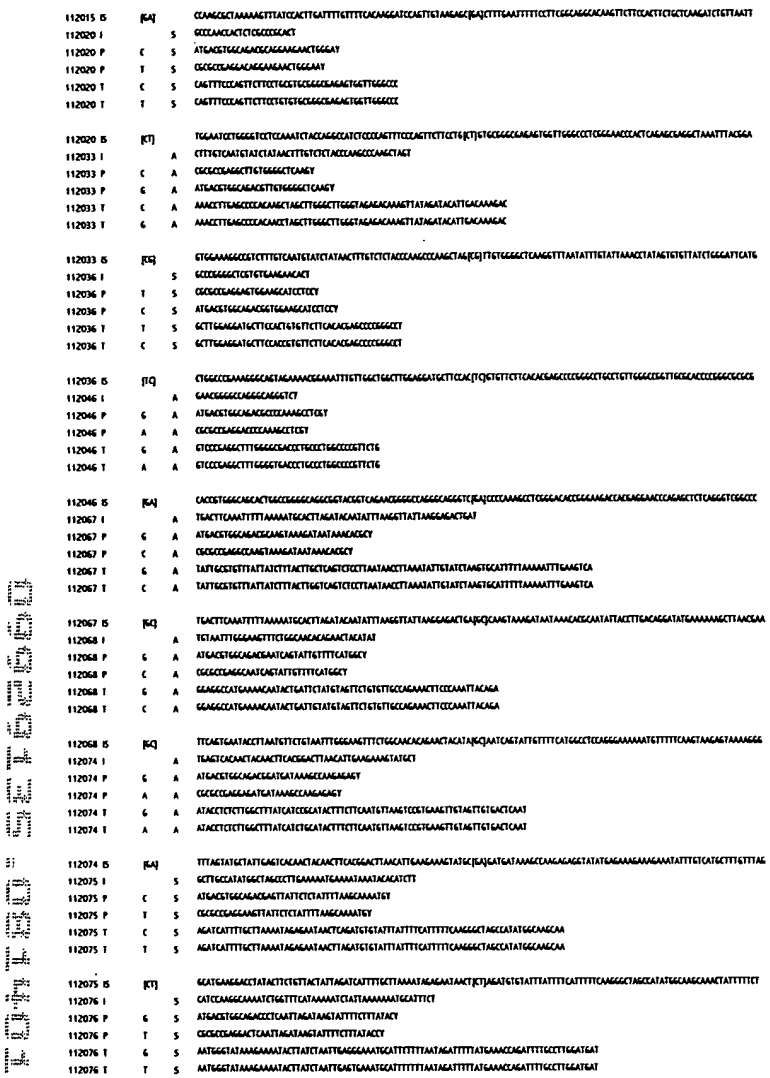


FIGURE 129G

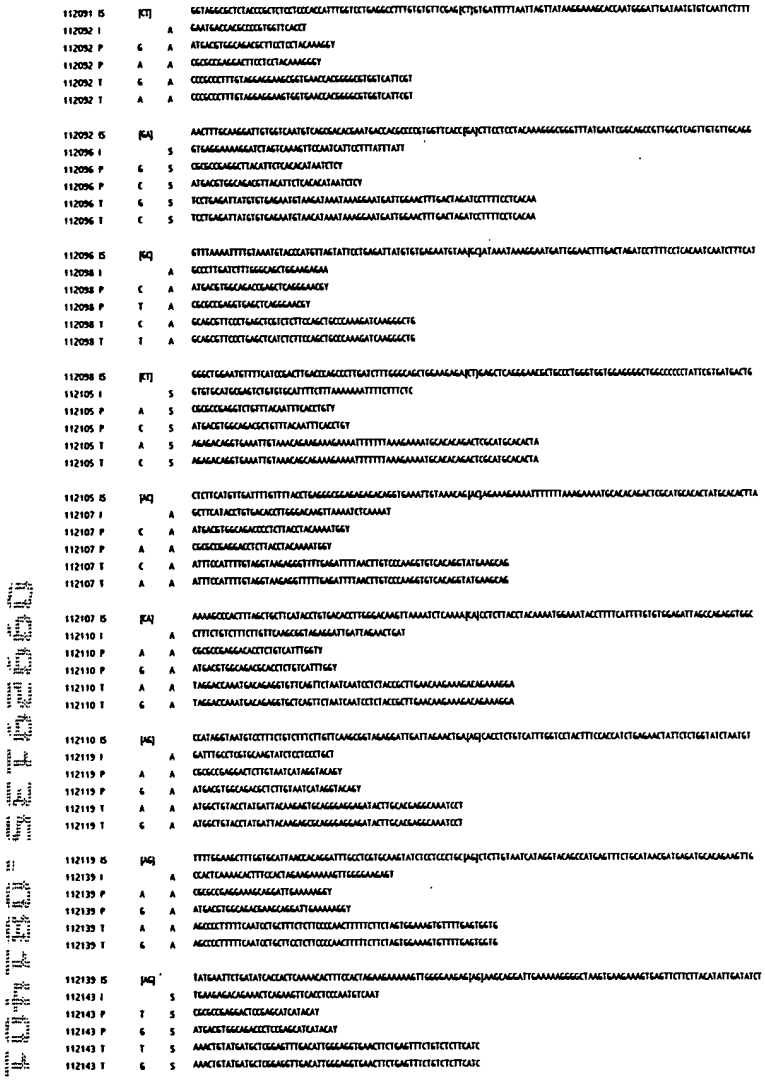


FIGURE 129G

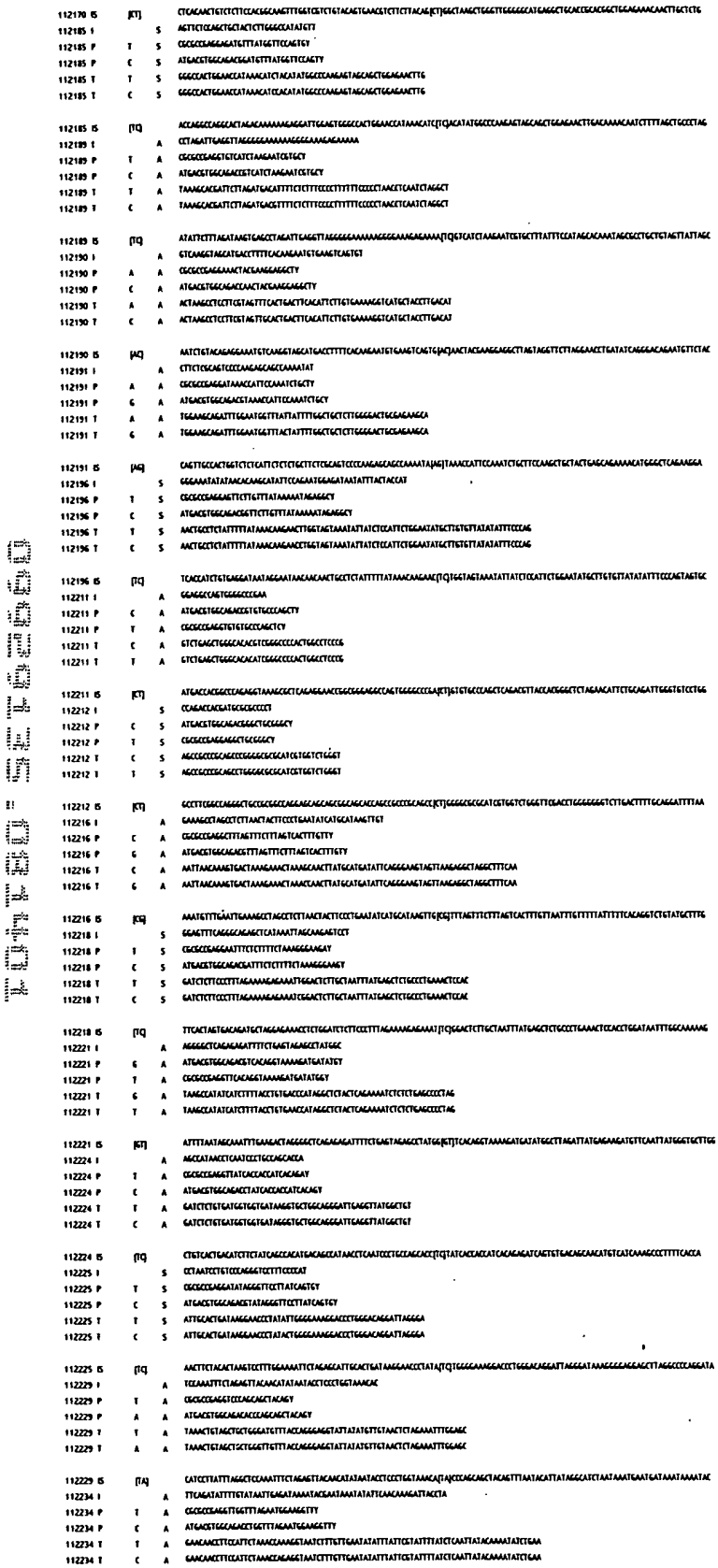
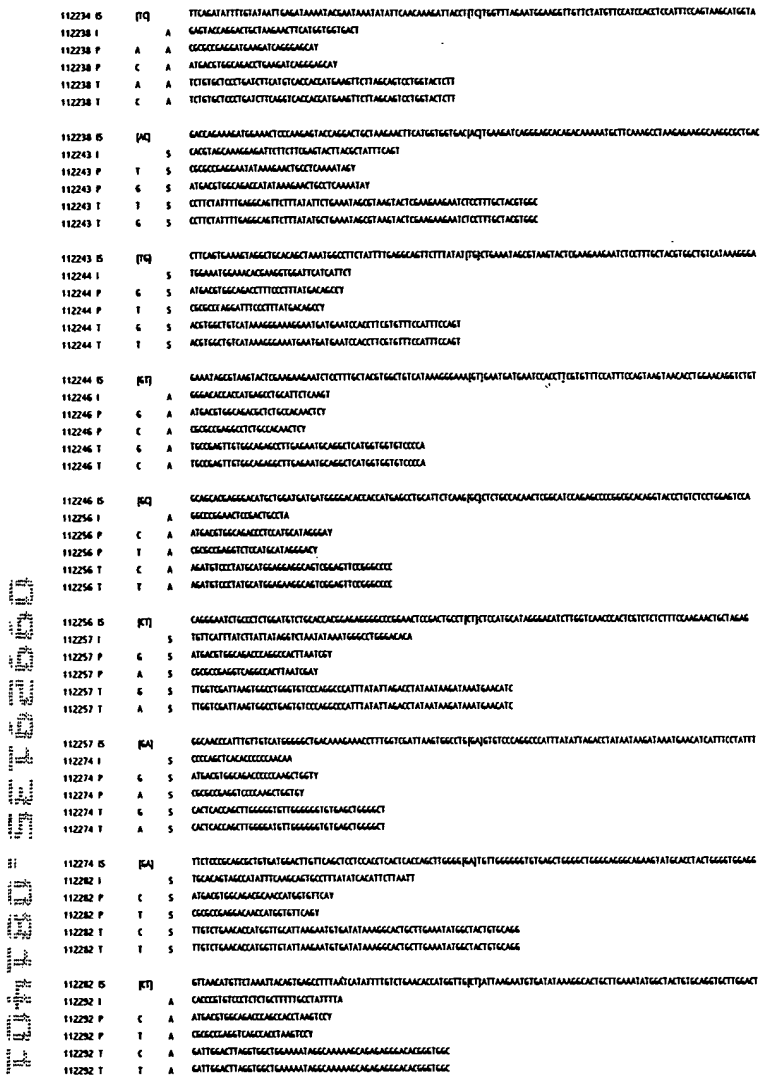


FIGURE 129G



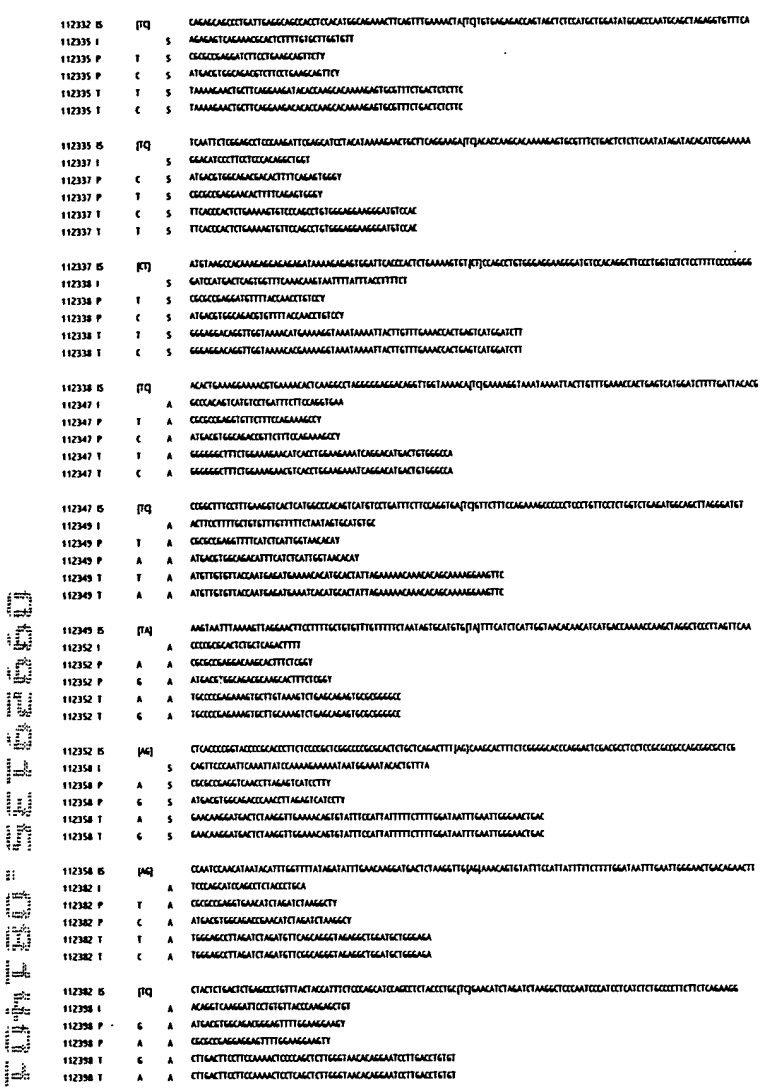


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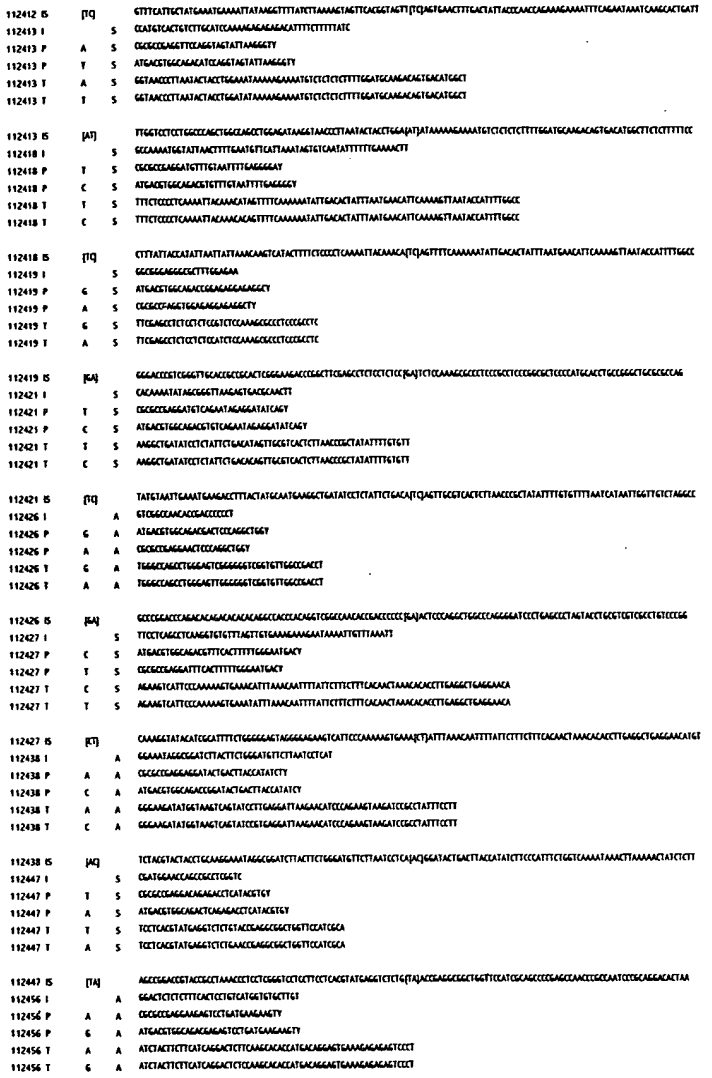
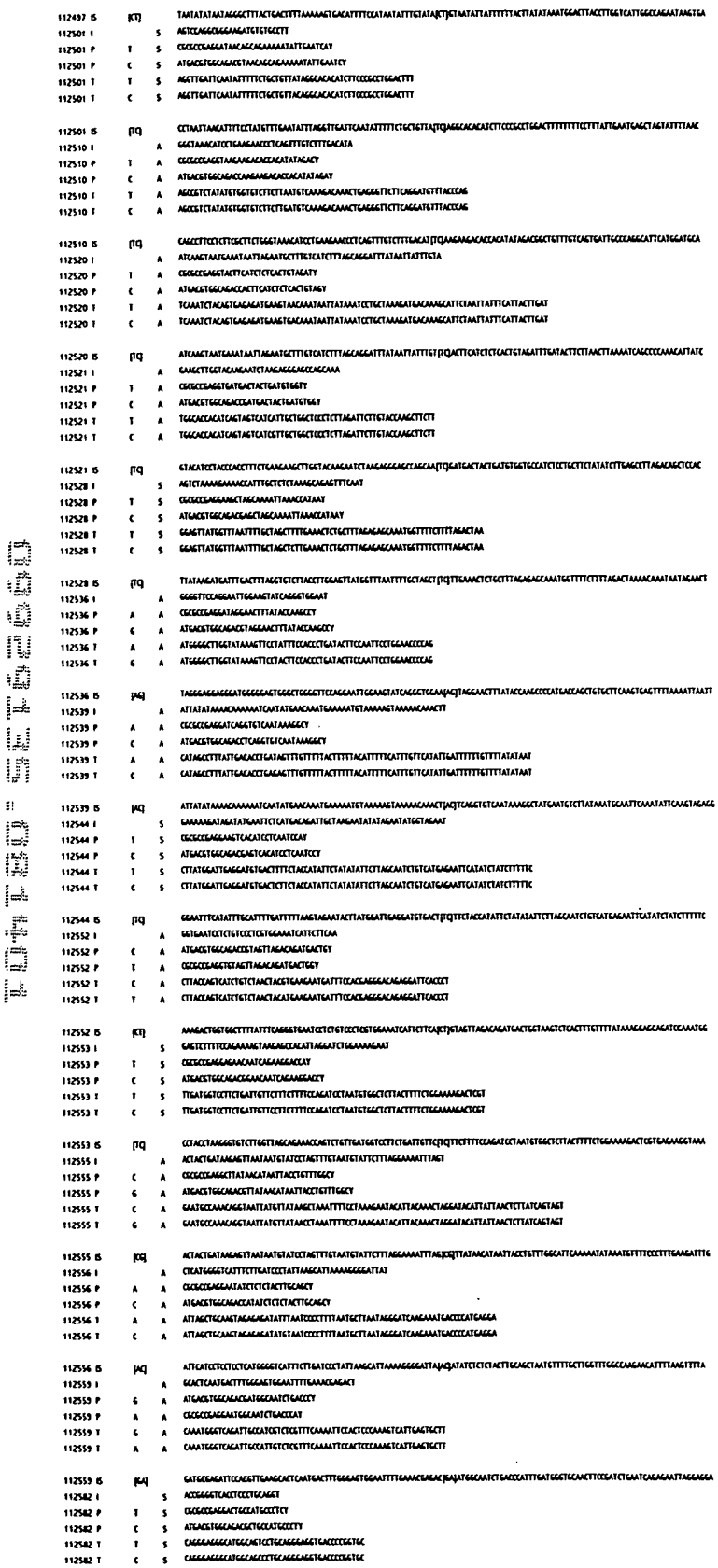
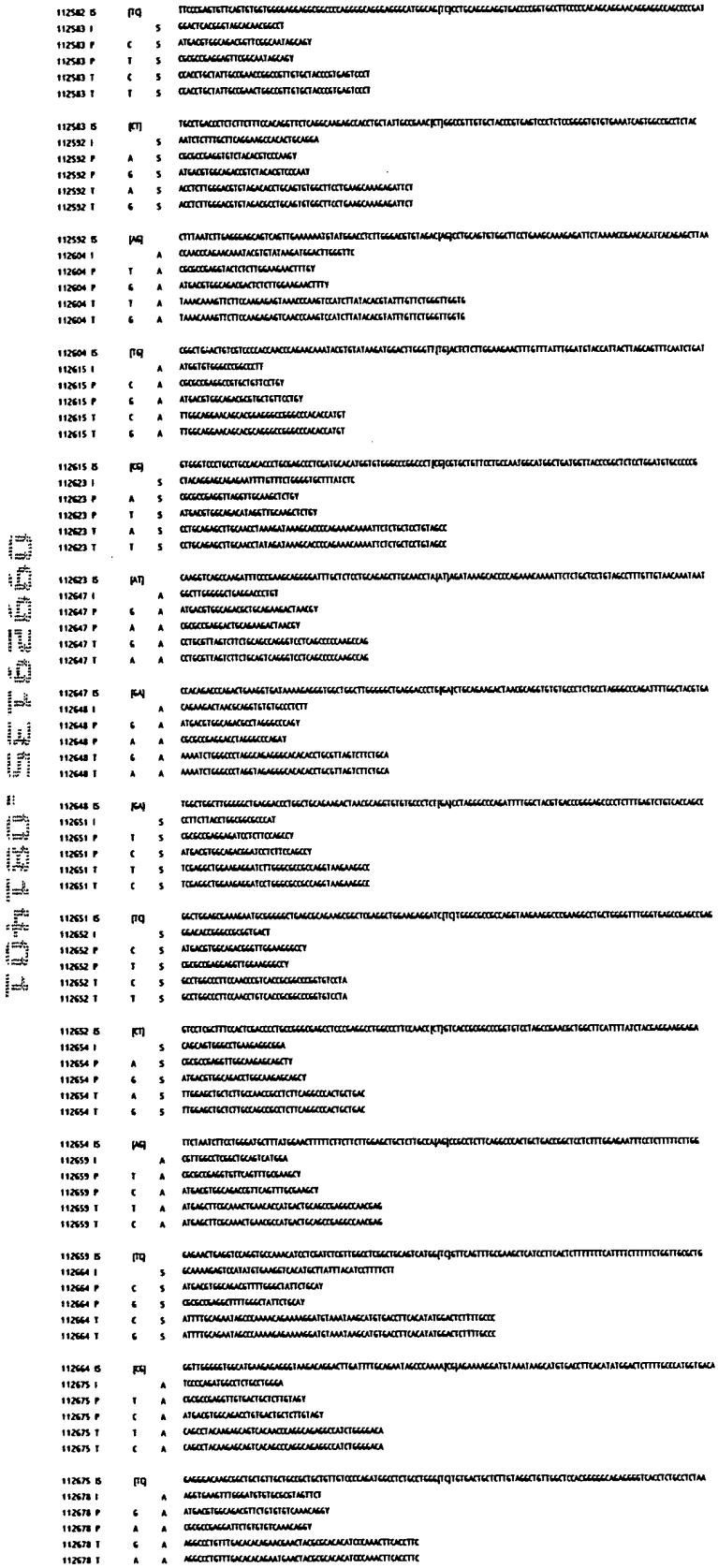


FIGURE 129G





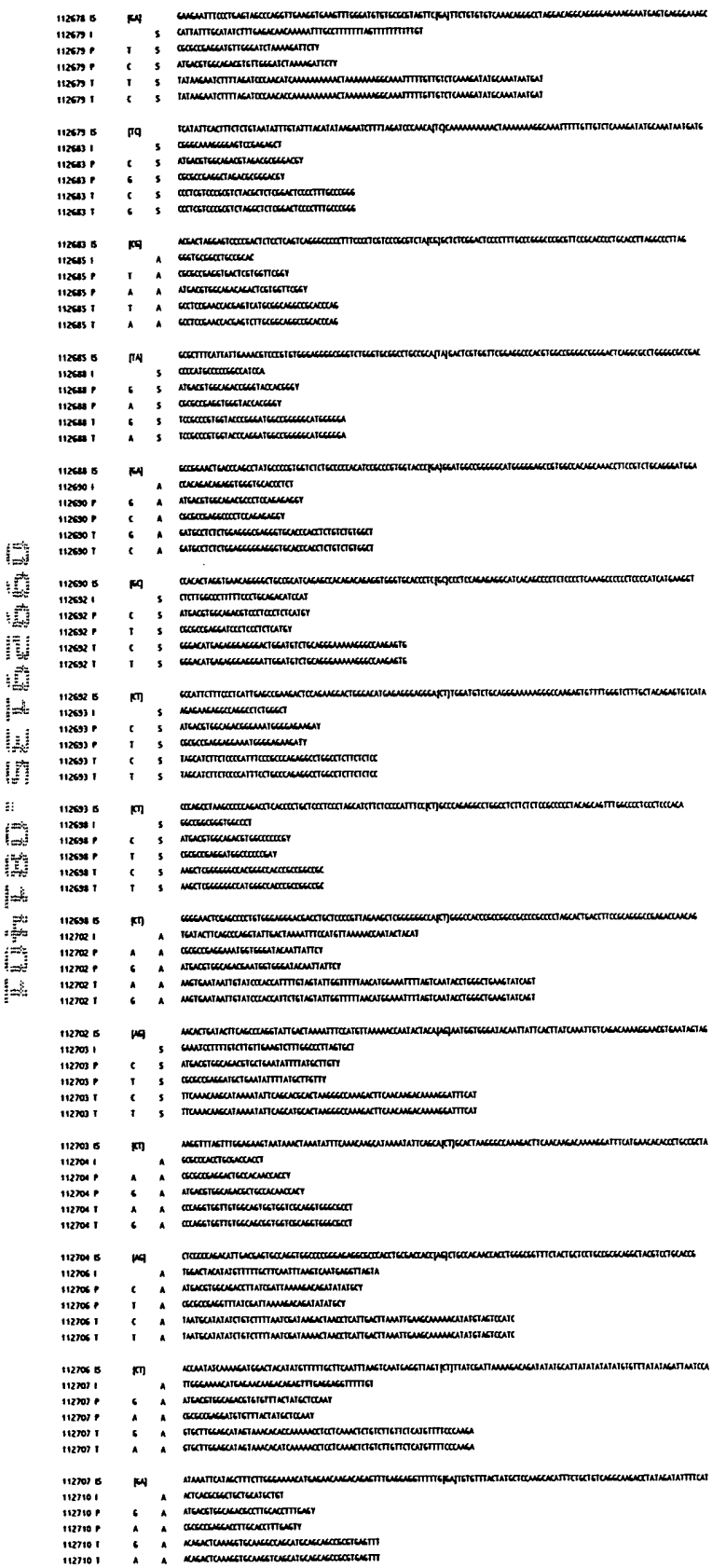
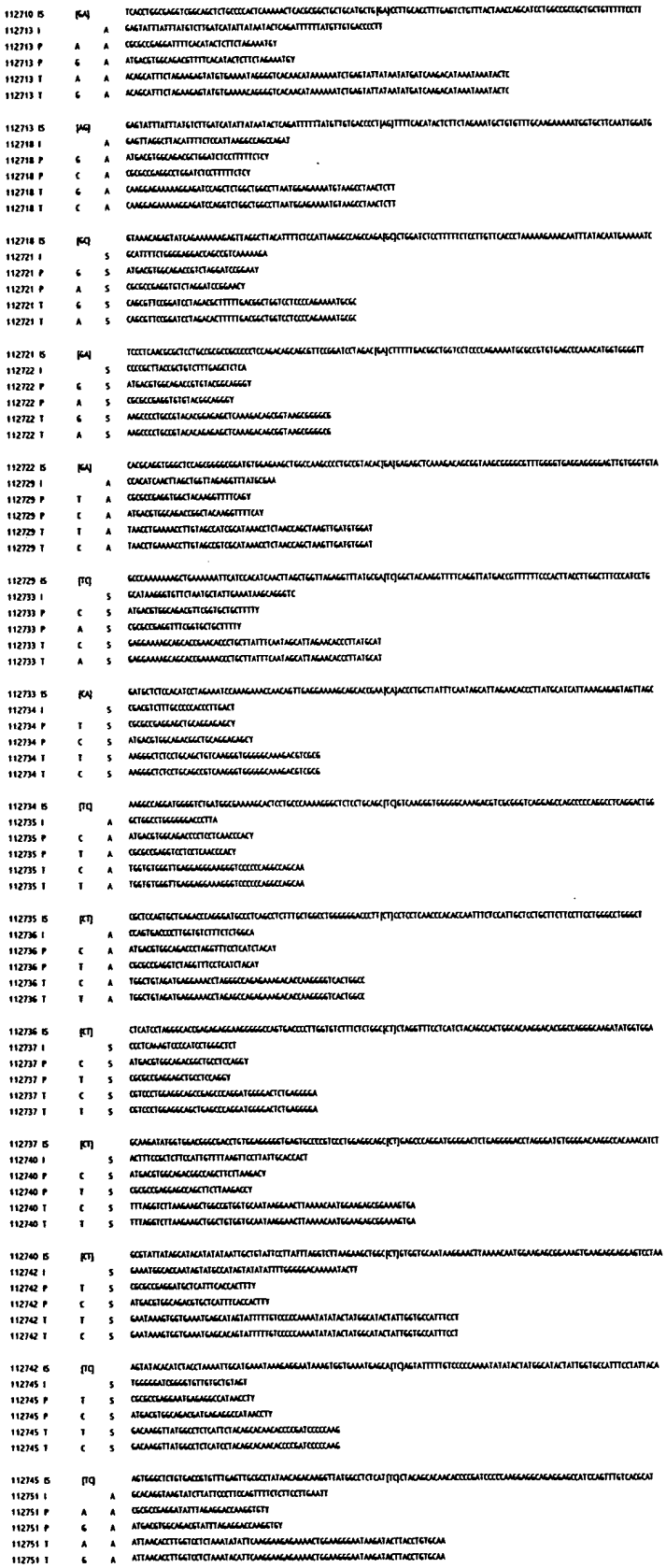


FIGURE 129G



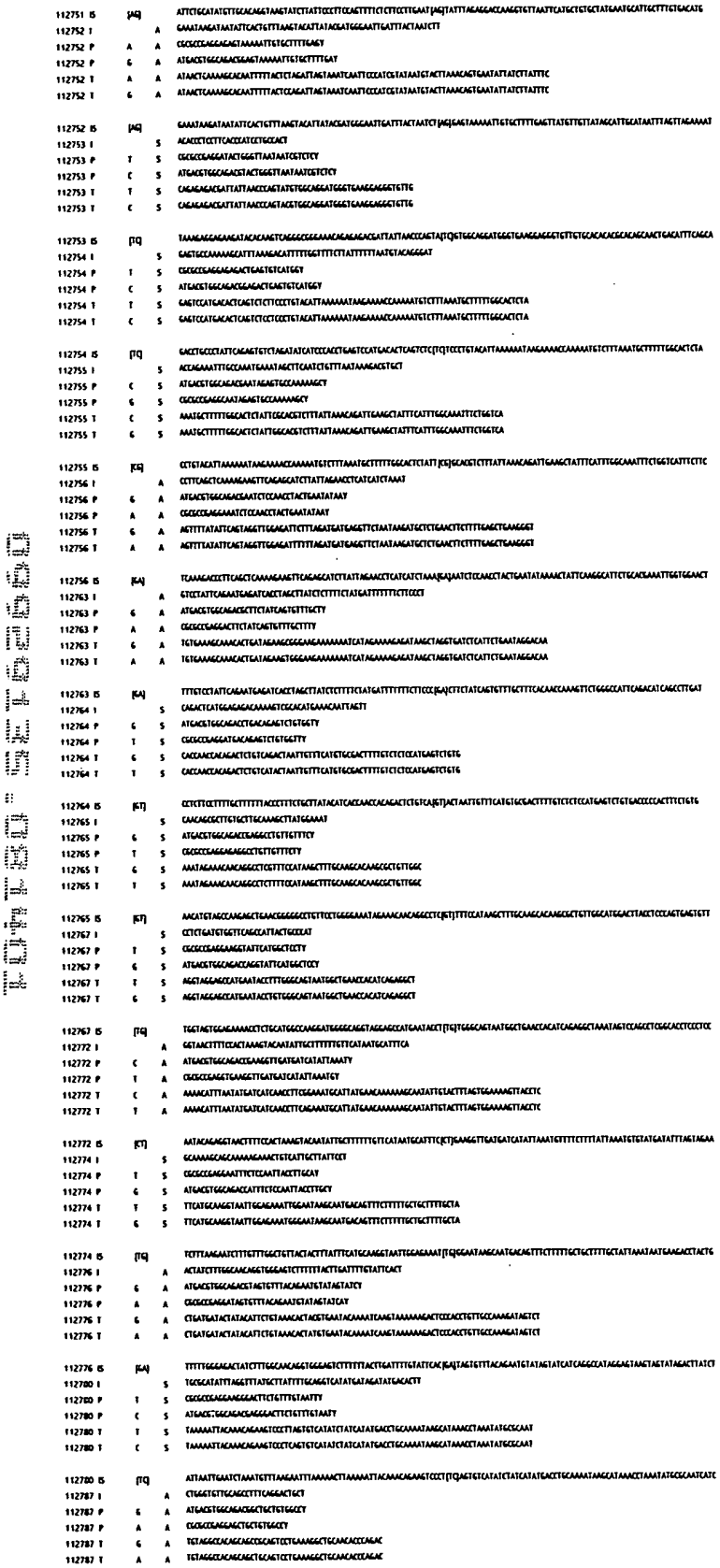


FIGURE 129G

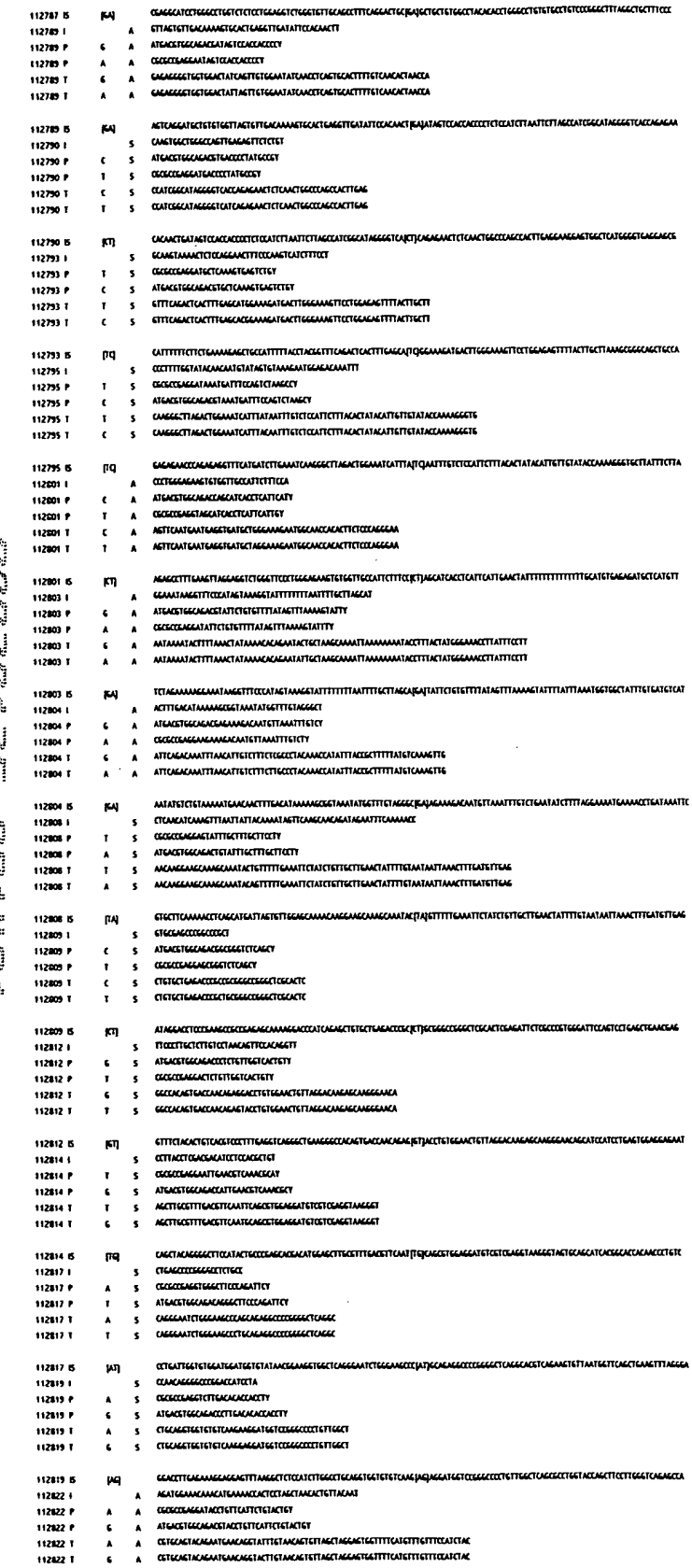


FIGURE 129G

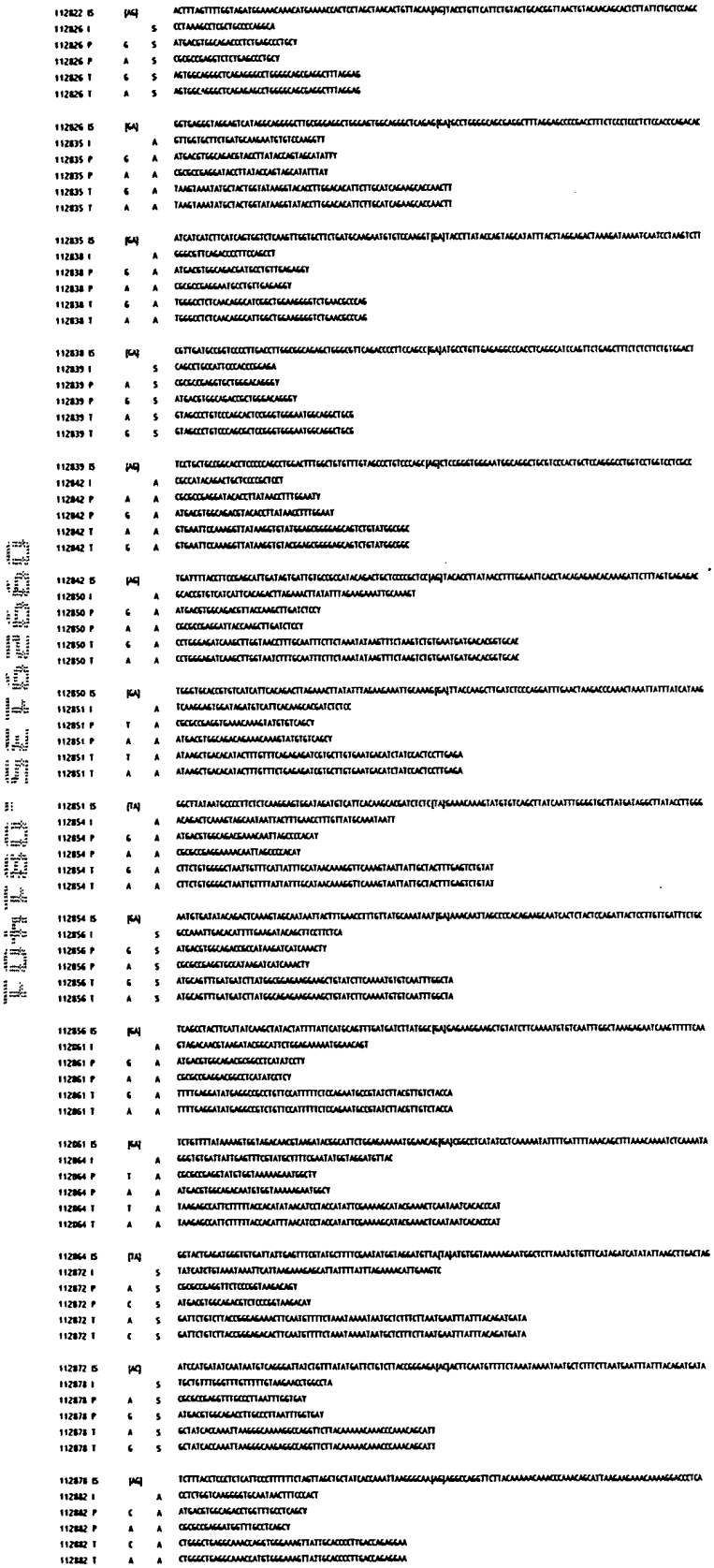


FIGURE 129G

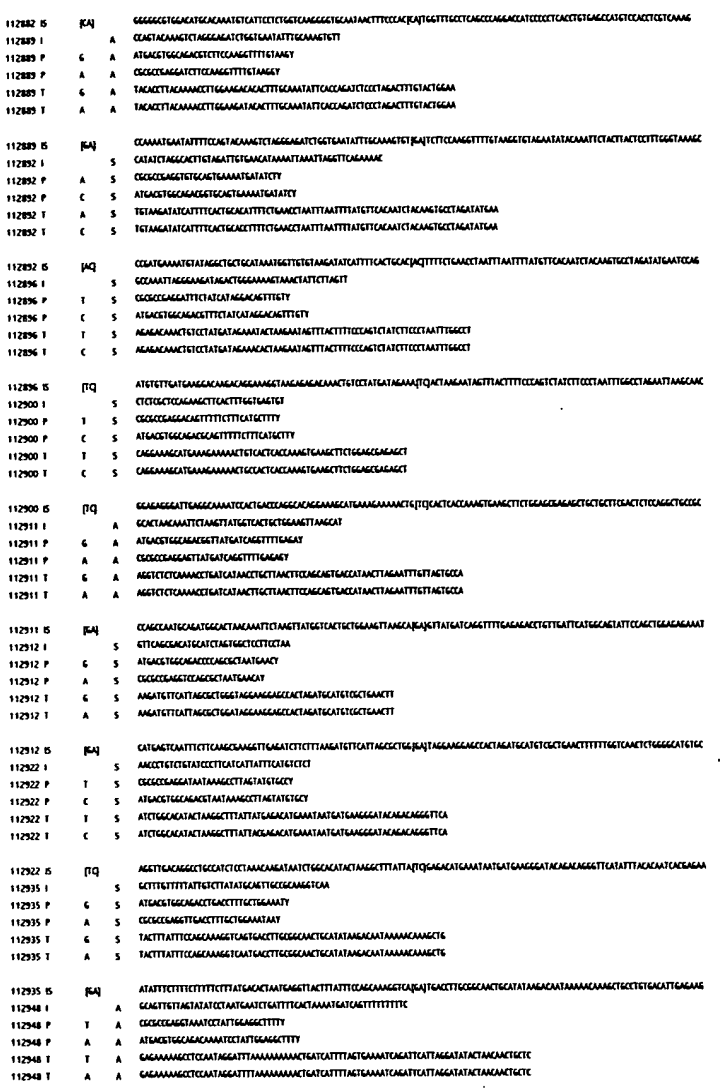
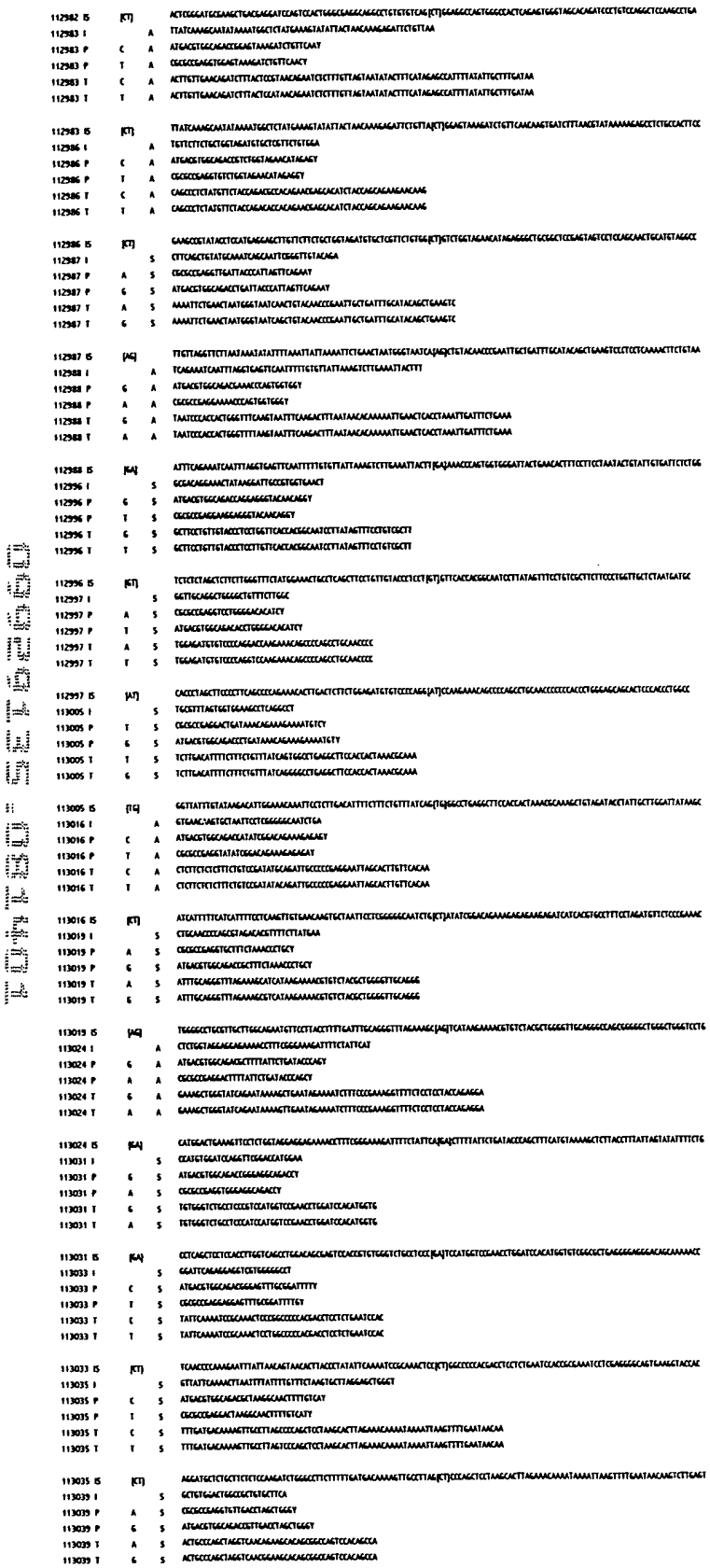
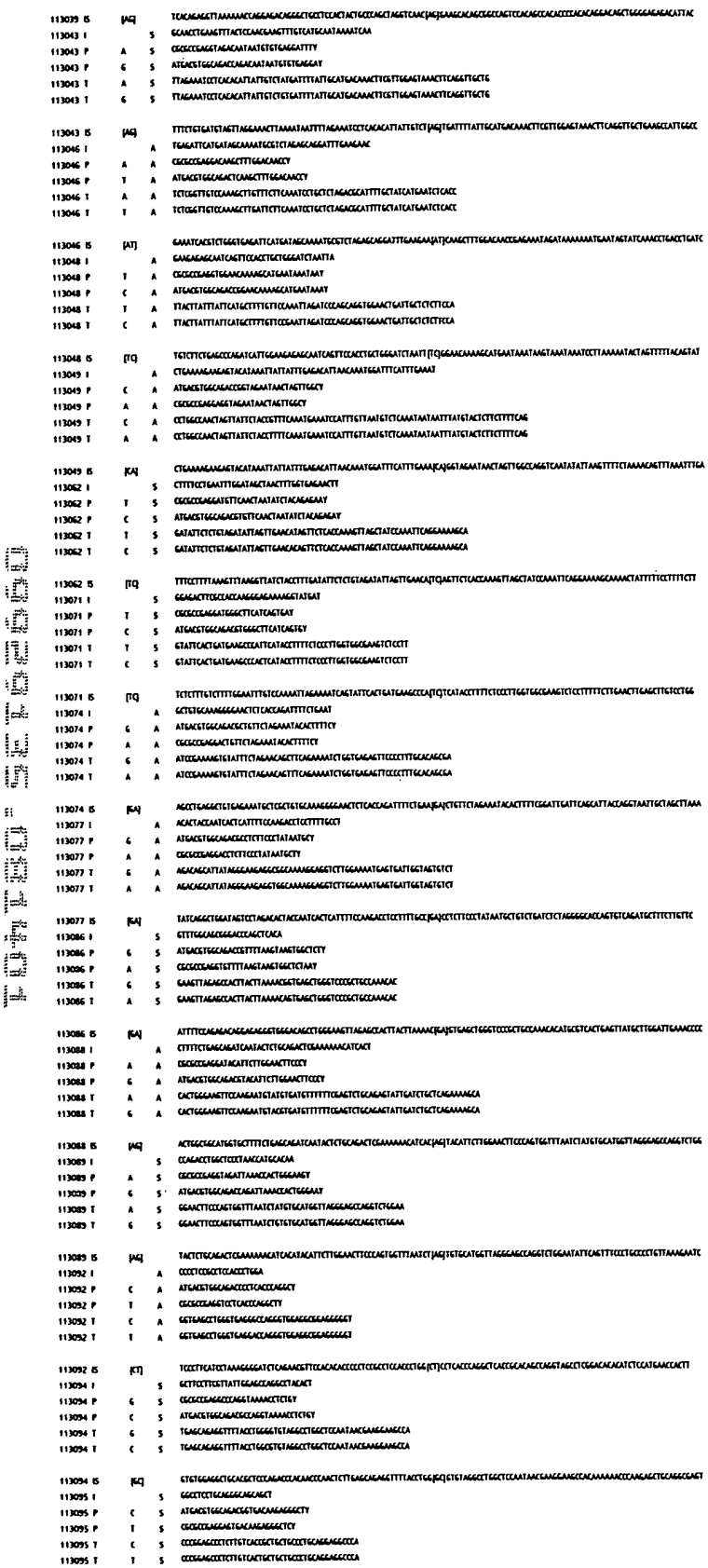
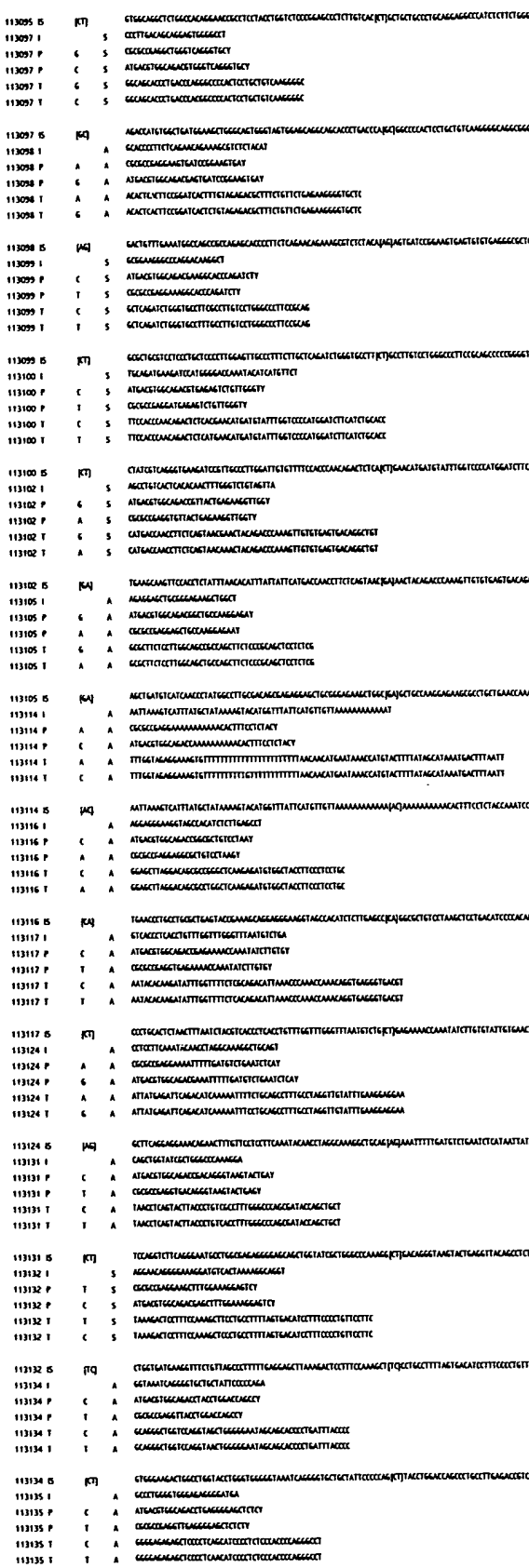


FIGURE 129G







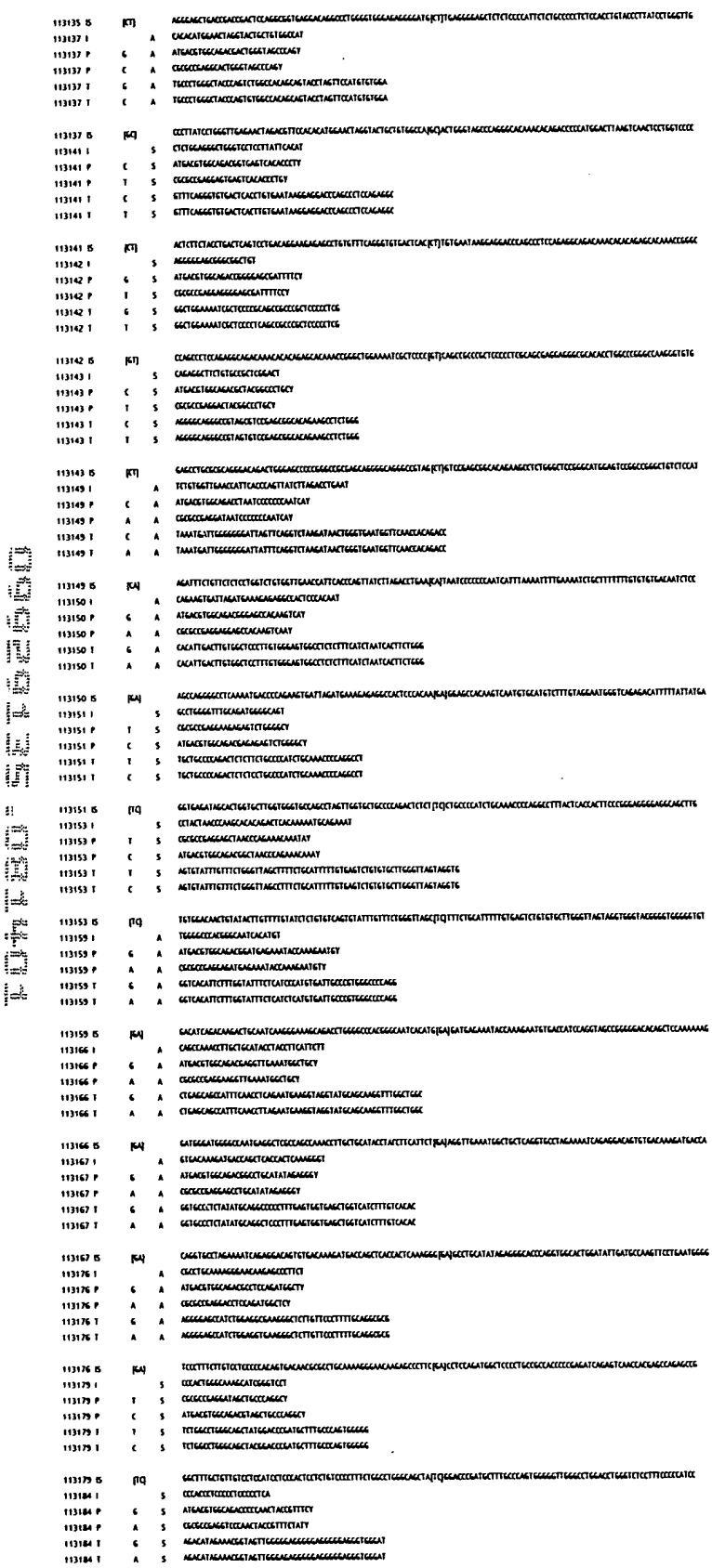
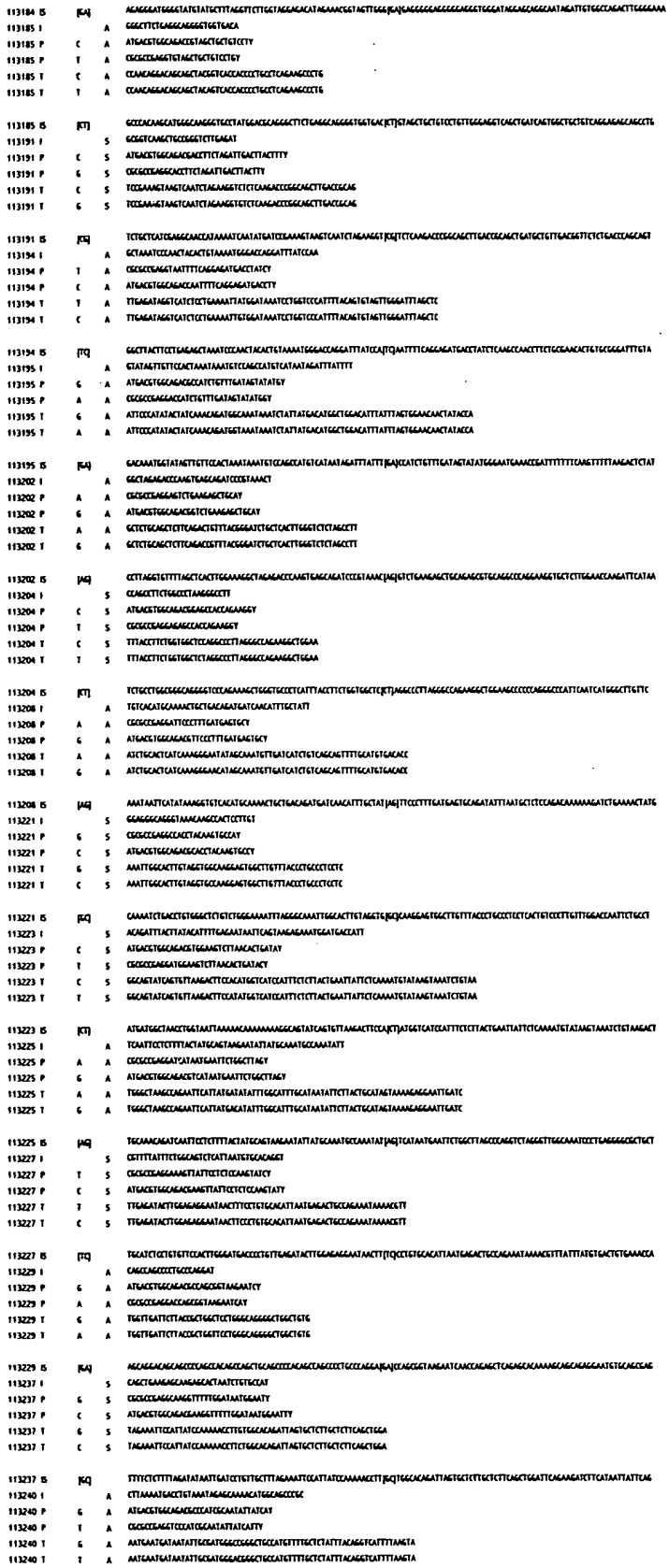


FIGURE 129G



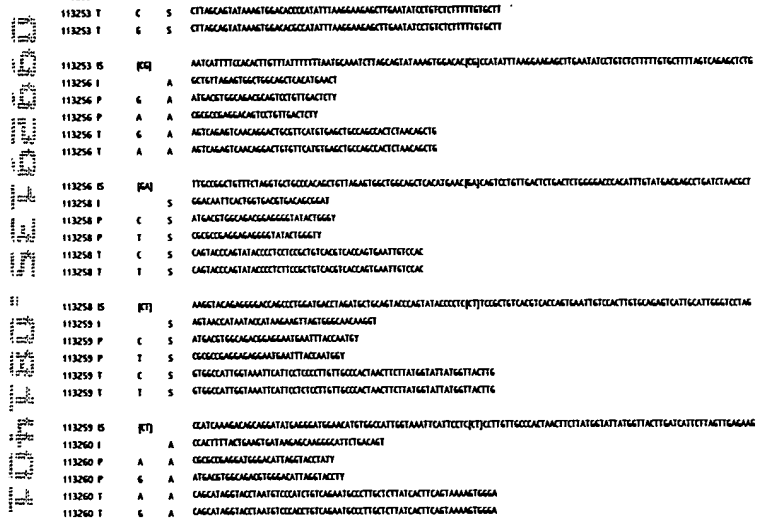
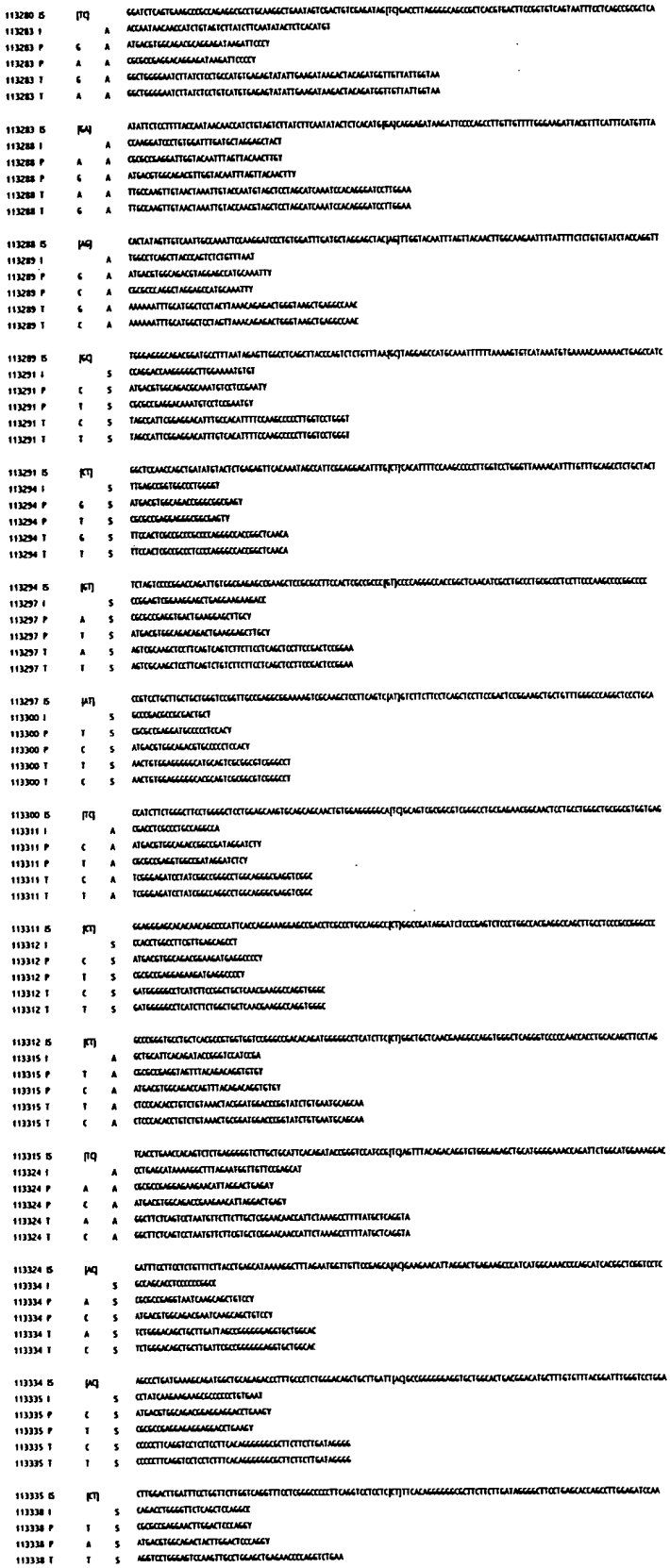


FIGURE 129G



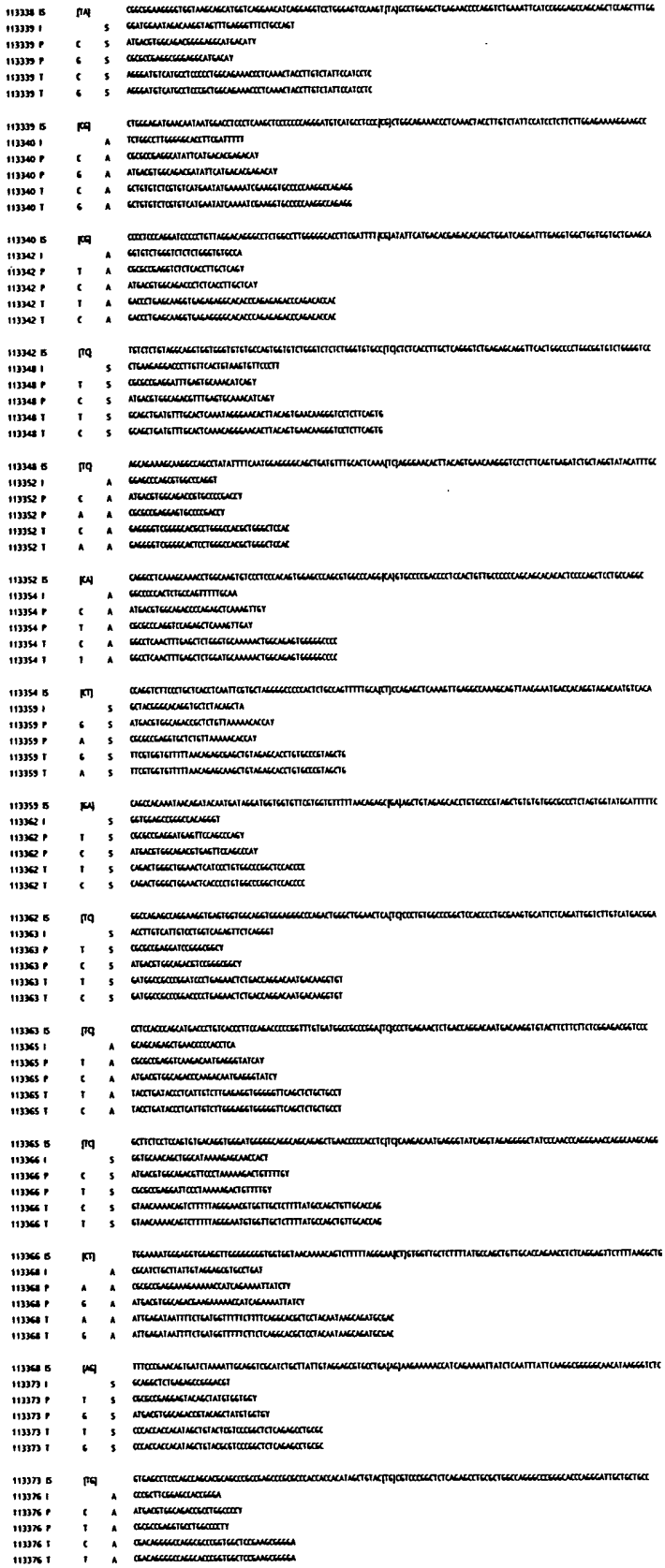


FIGURE 129G

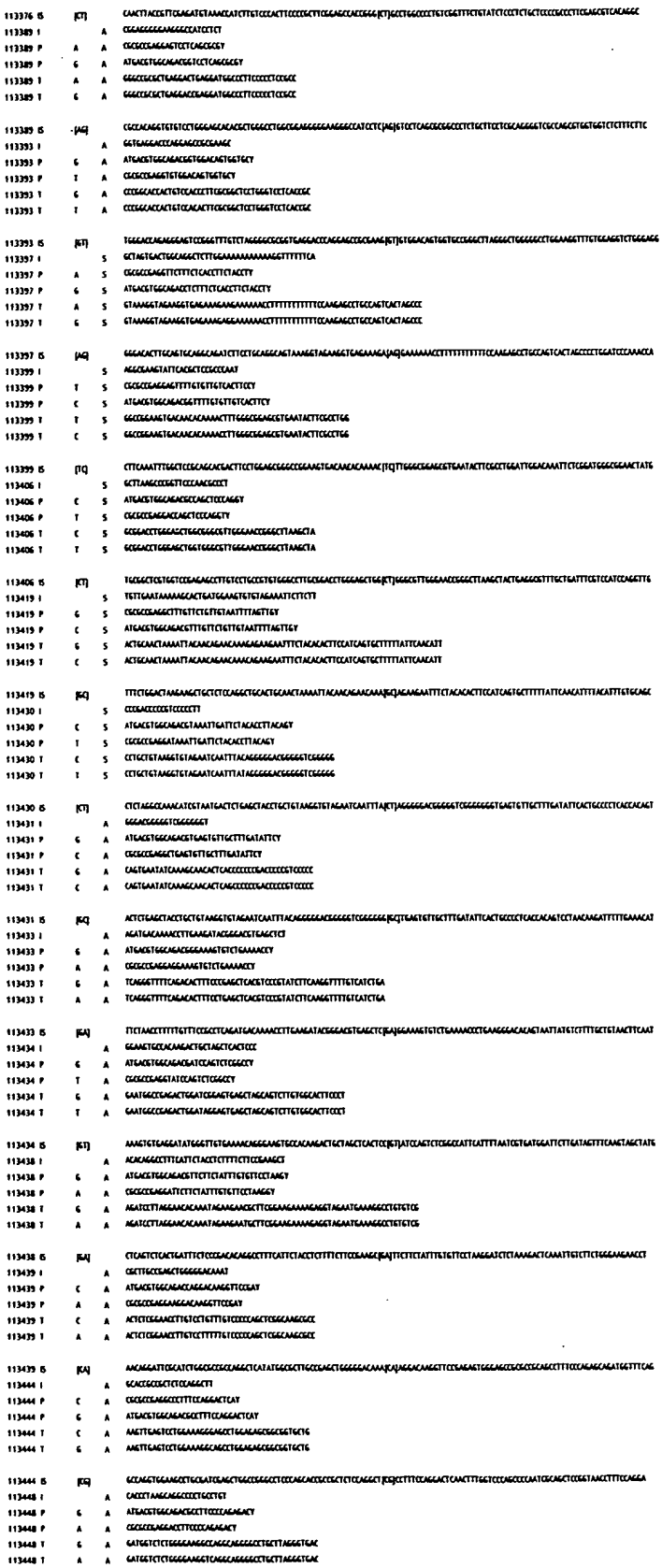


FIGURE 129G

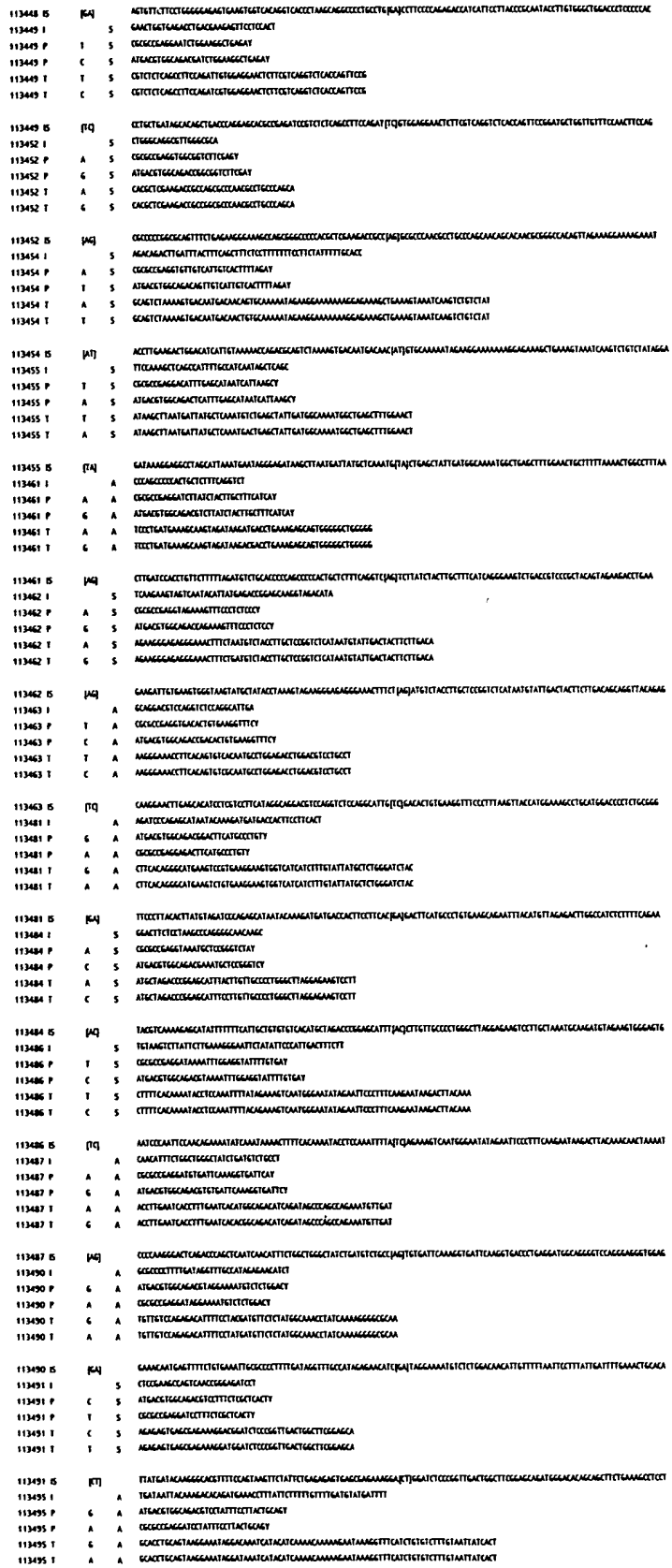


FIGURE 129G

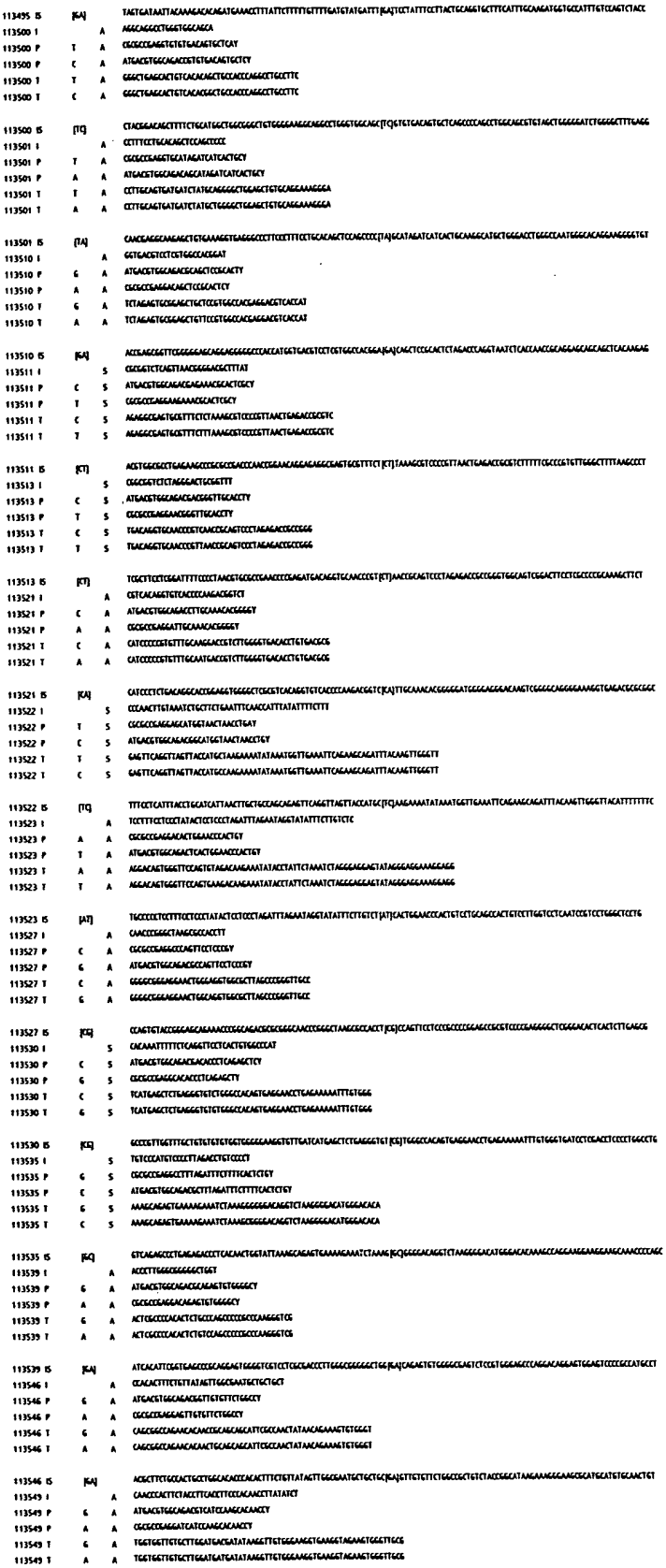
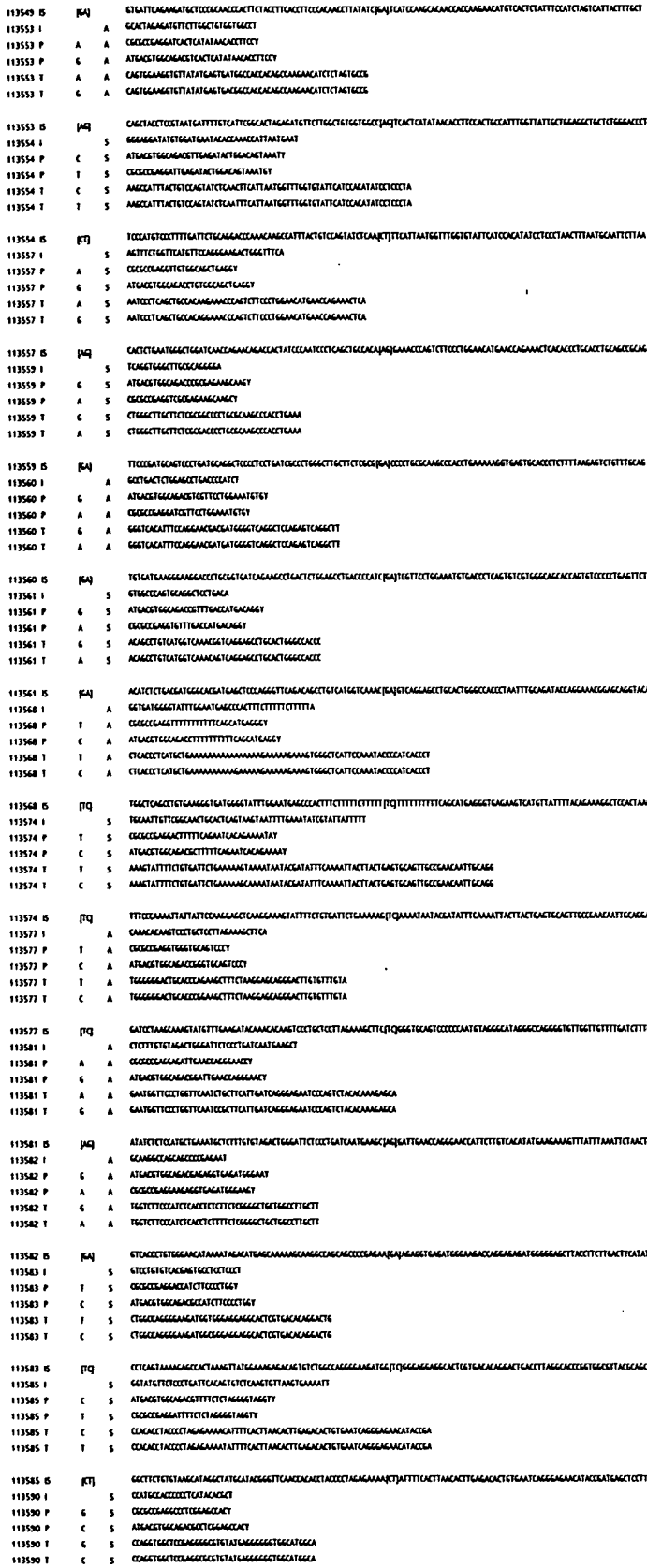
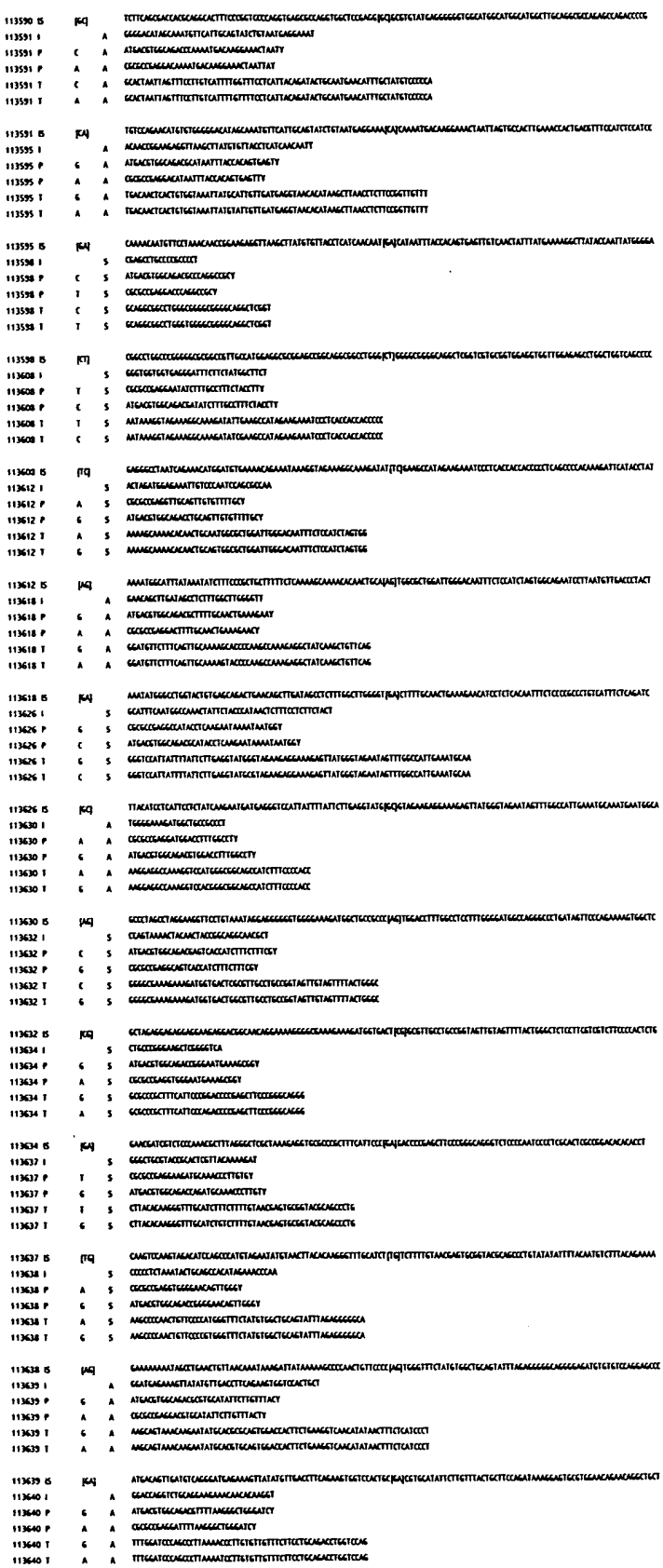
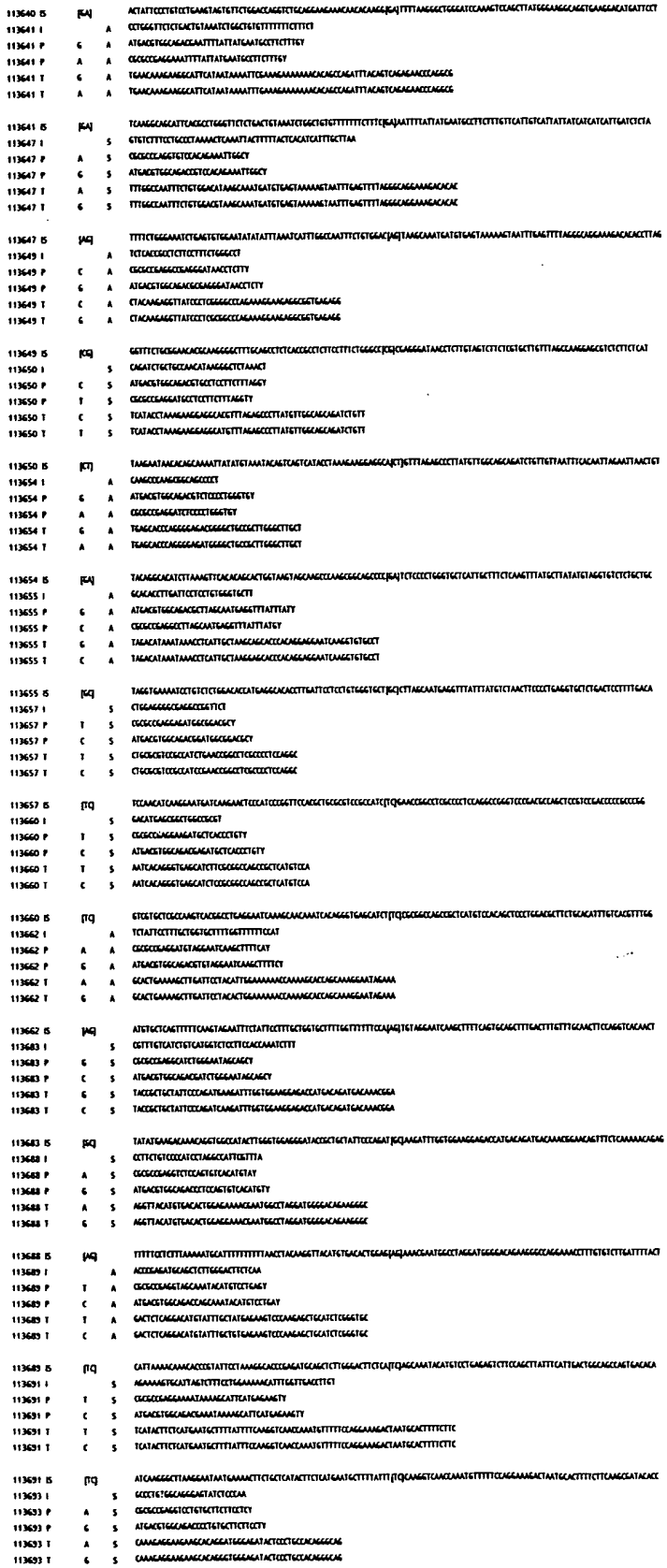


FIGURE 129G







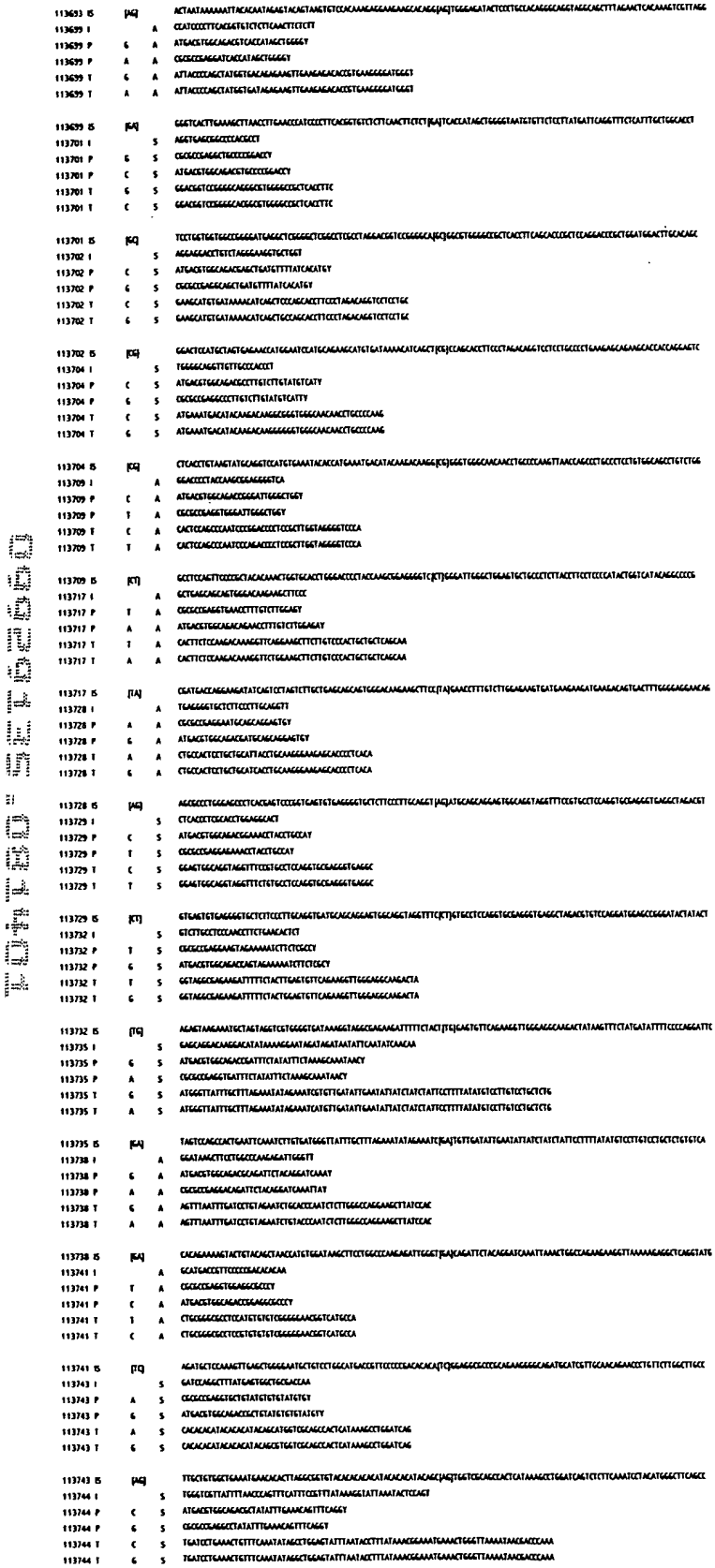


FIGURE 129G

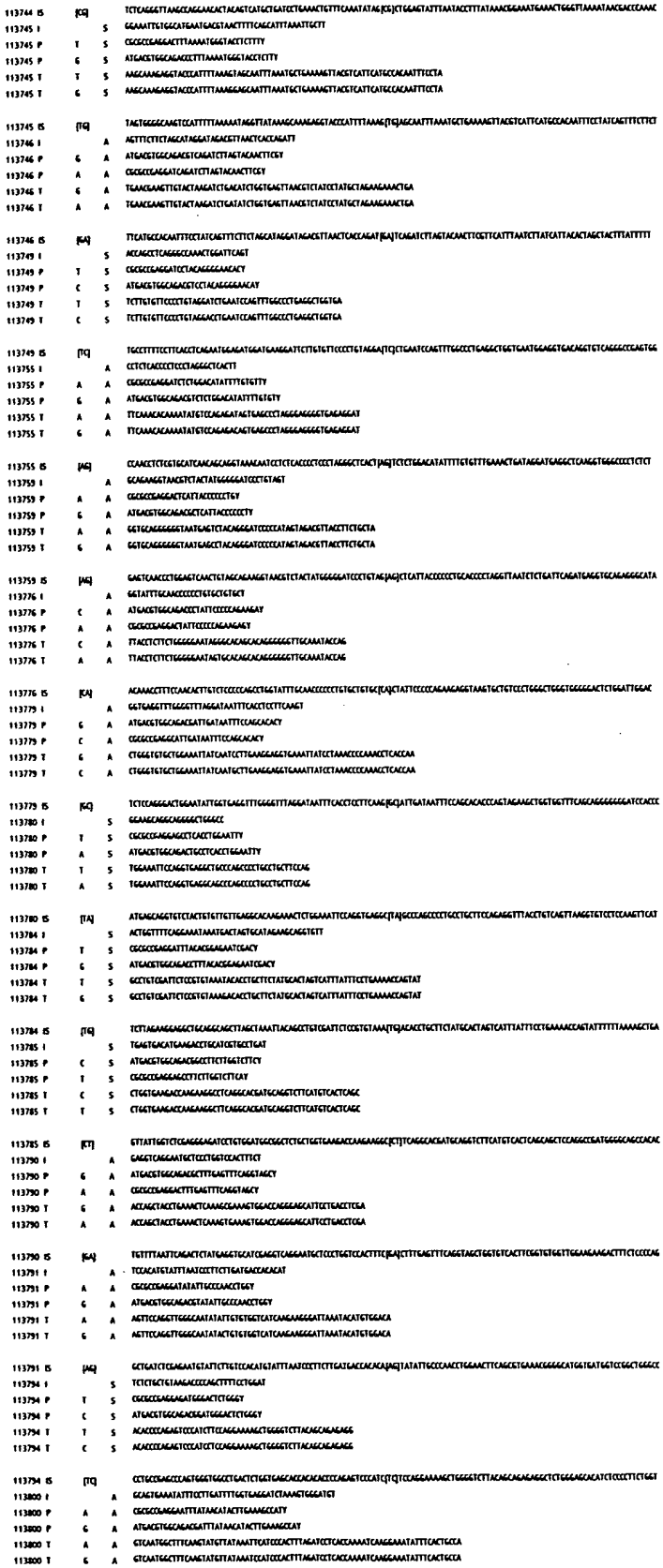


FIGURE 129G

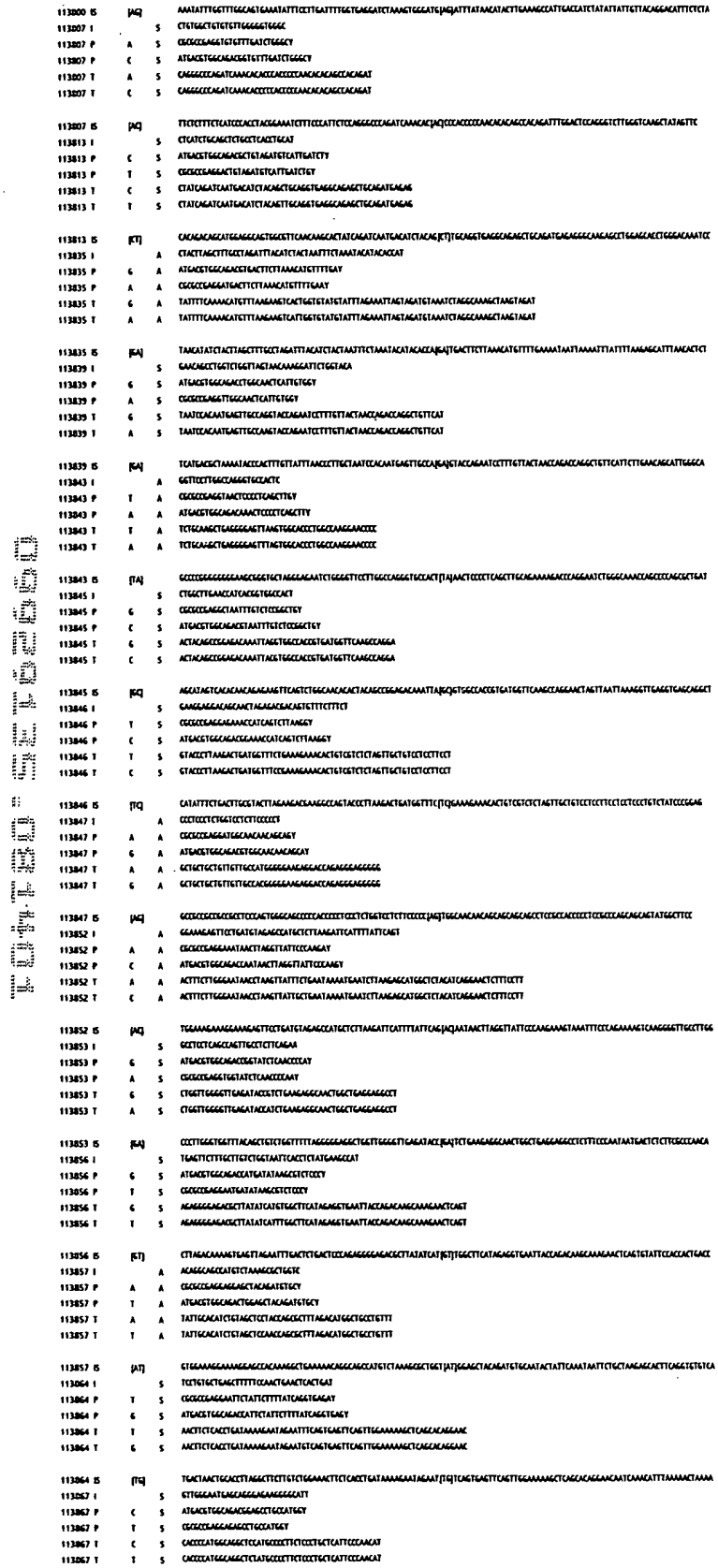


FIGURE 129G

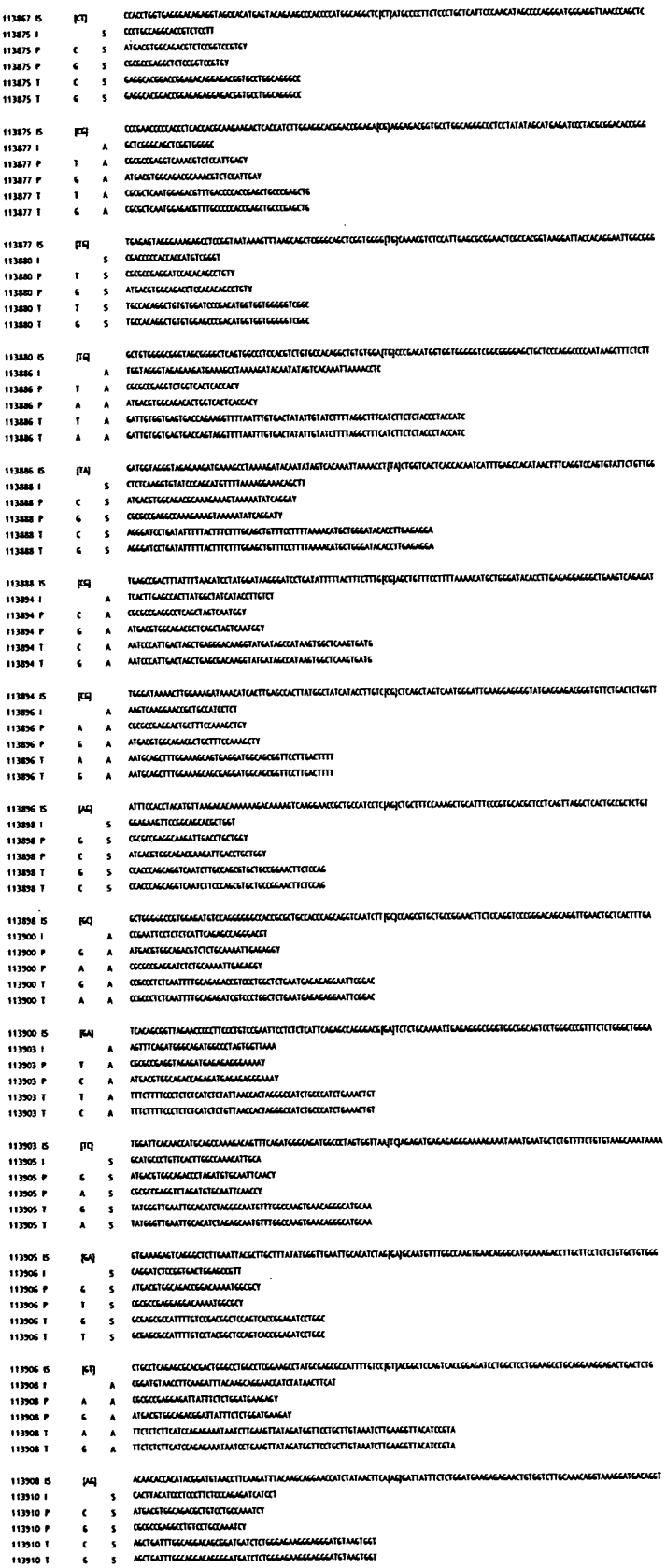


FIGURE 129G

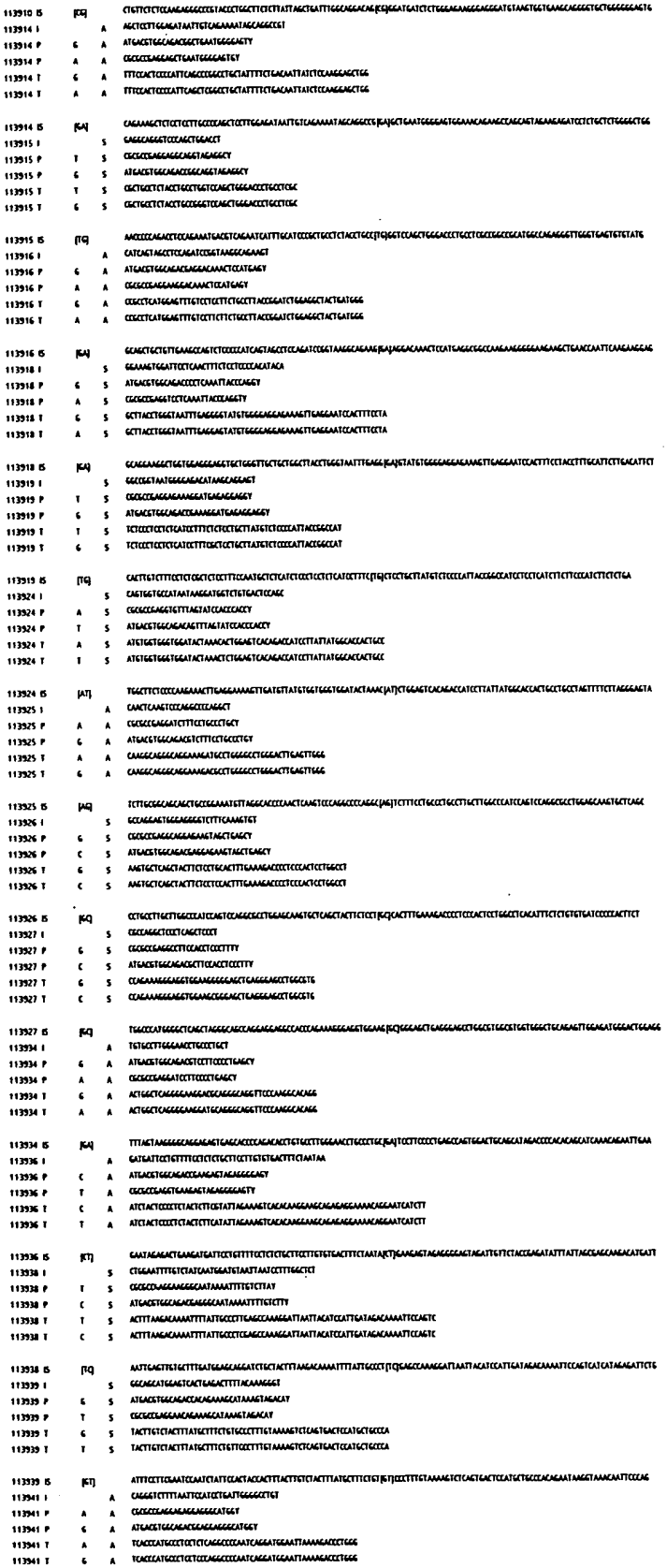
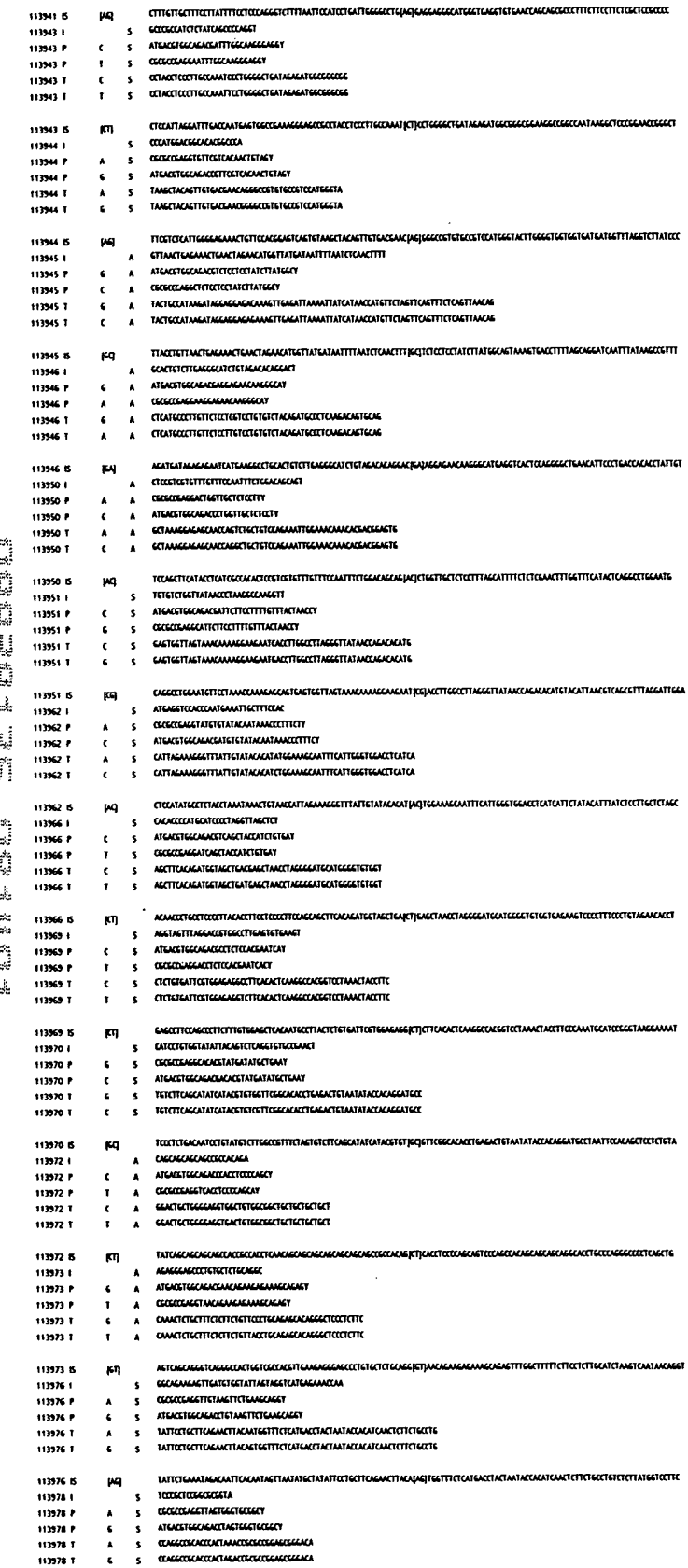
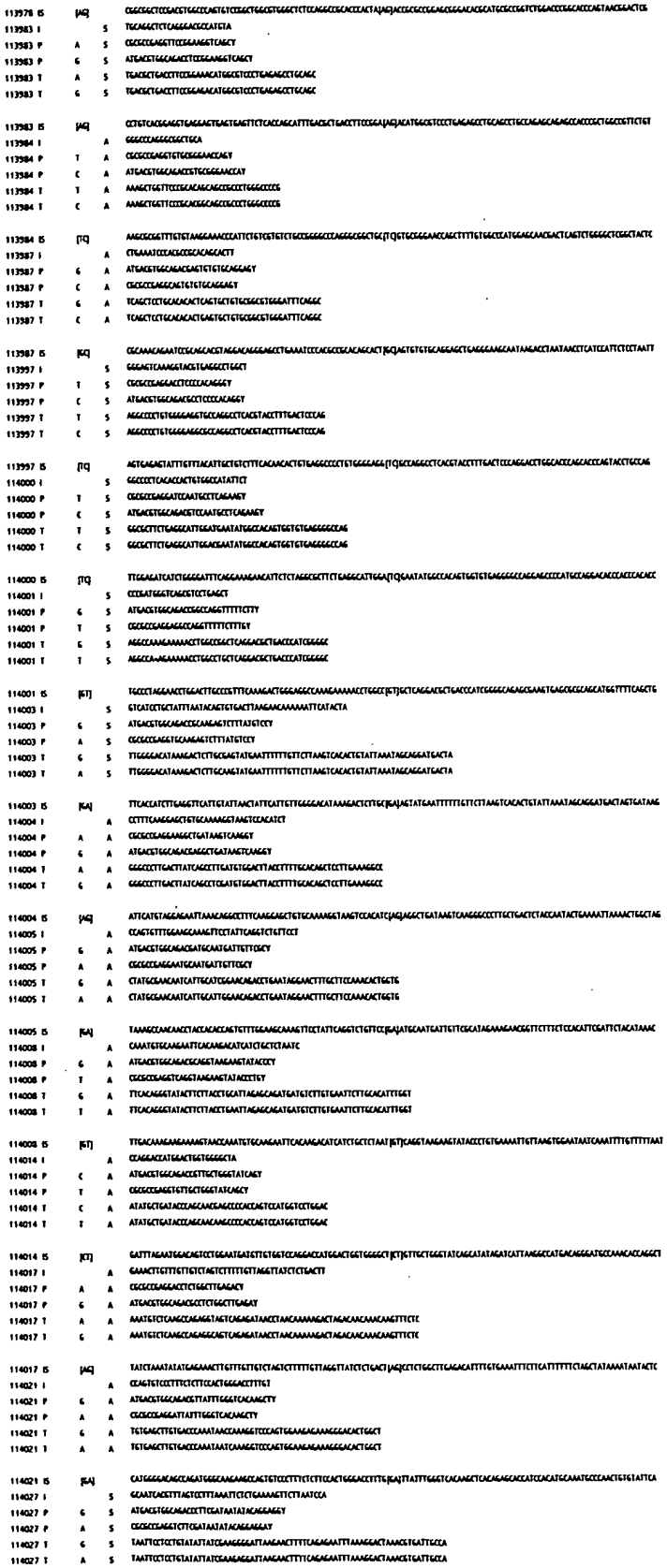


FIGURE 129G





Replacement Sheet

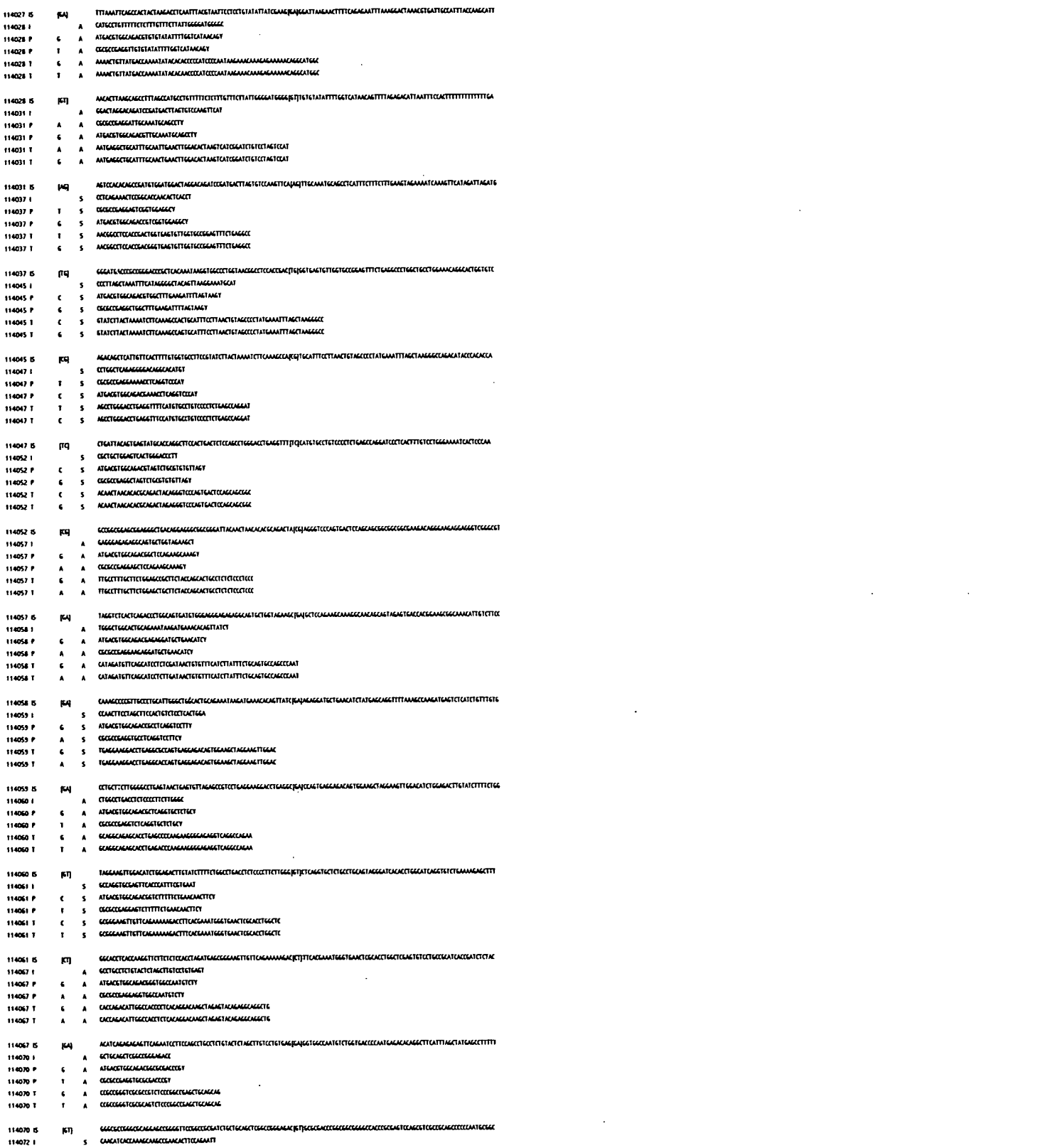
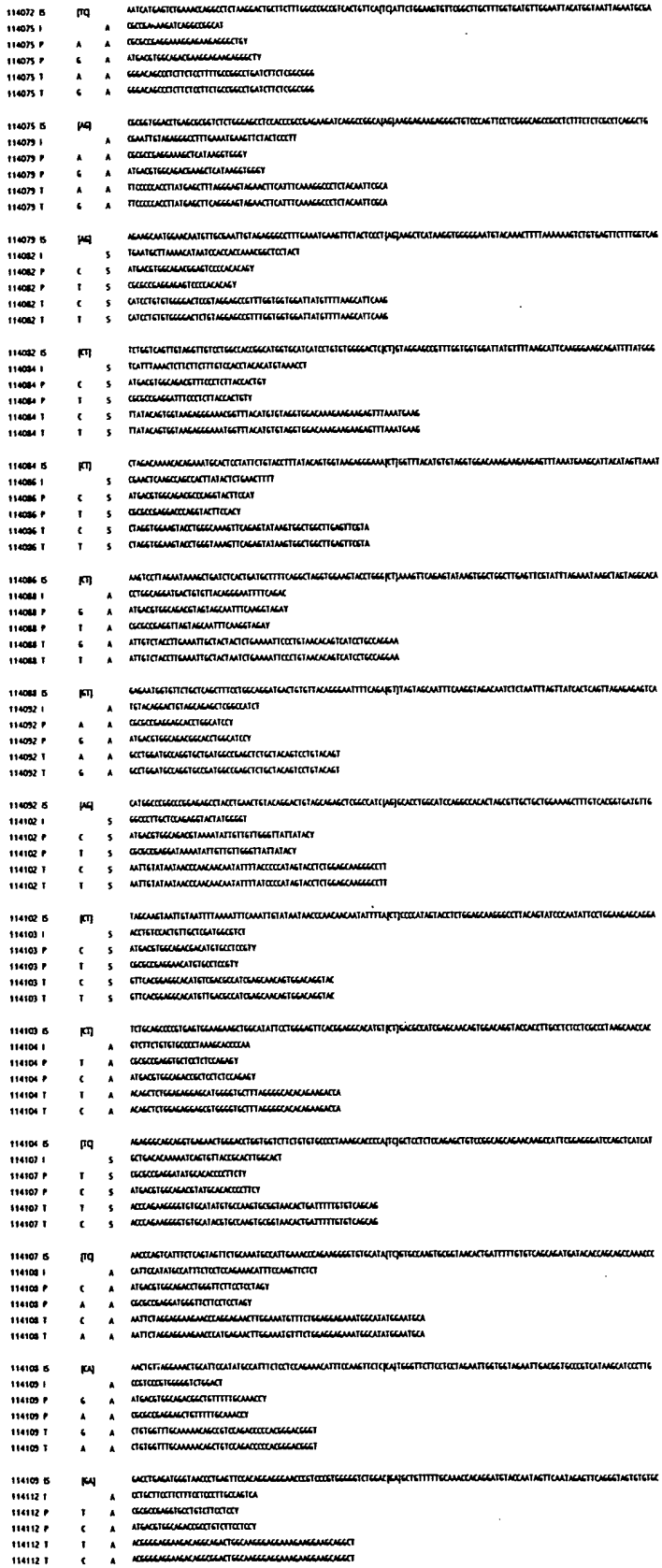


FIGURE 129G



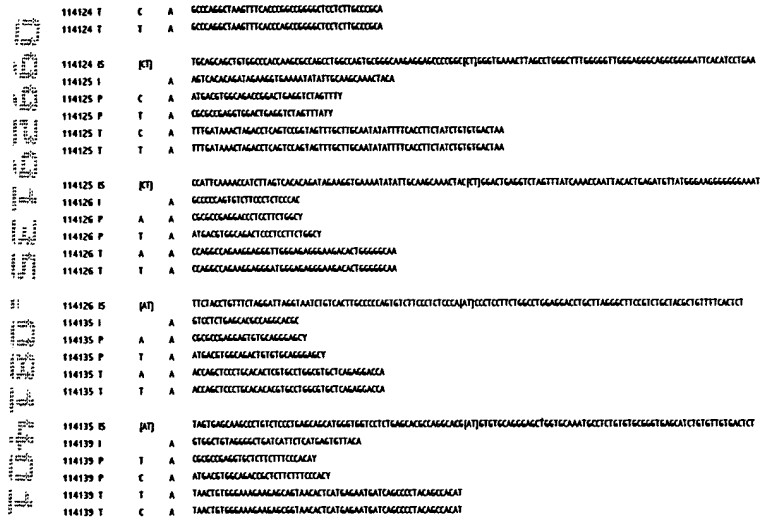


FIGURE 129G

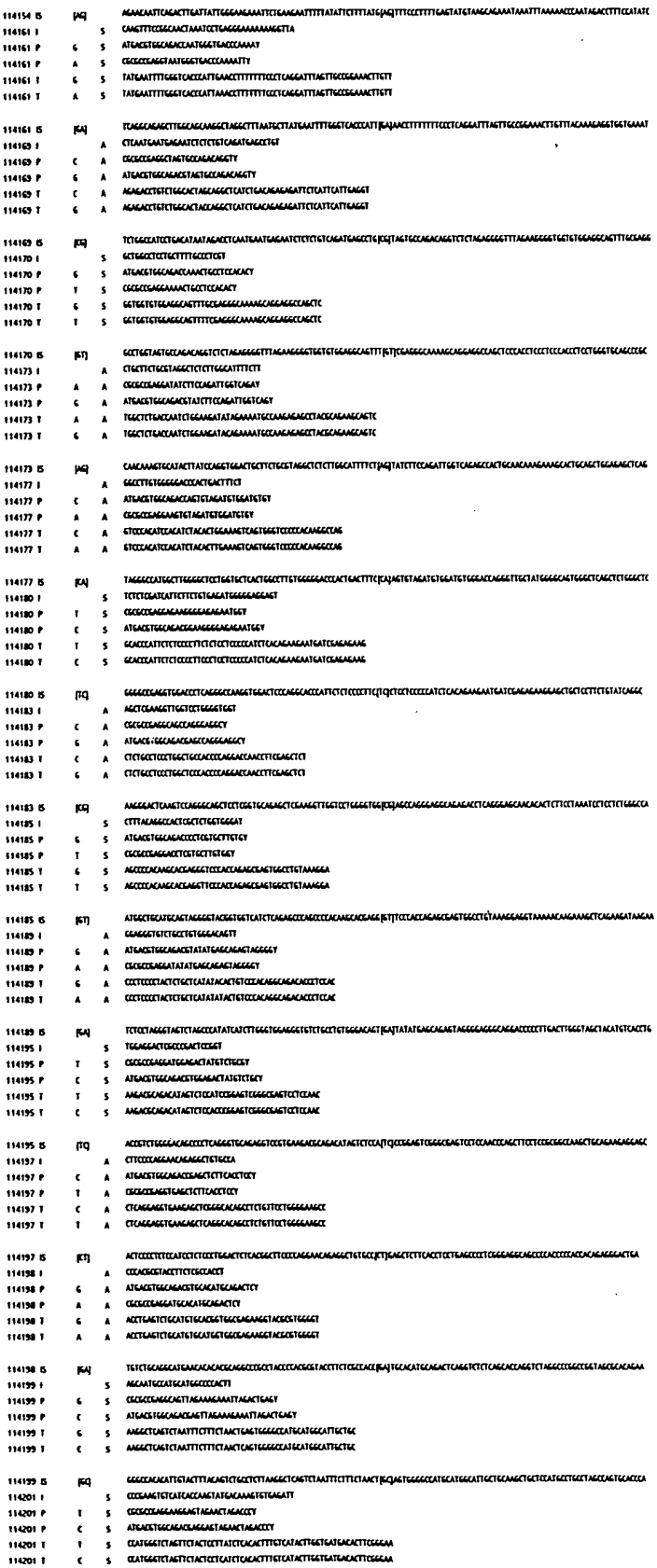


FIGURE 129G

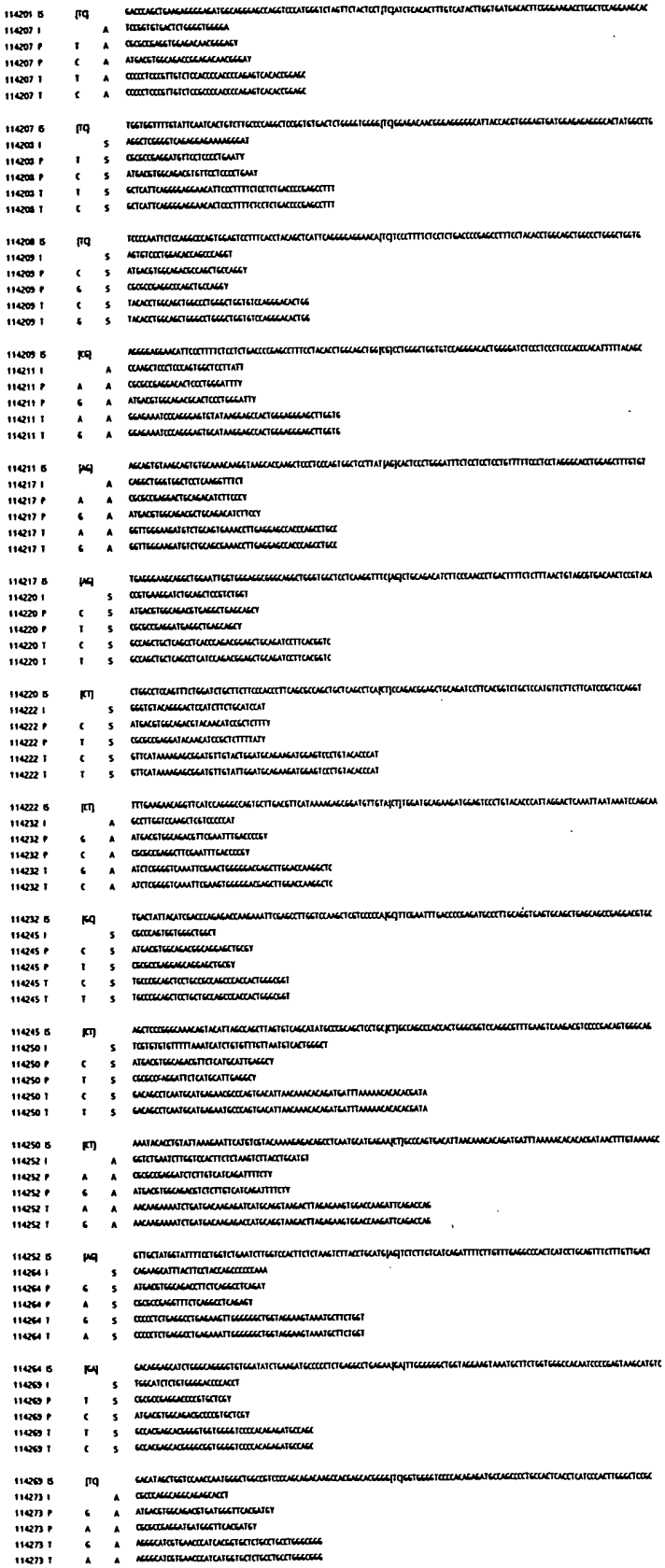


FIGURE 129G

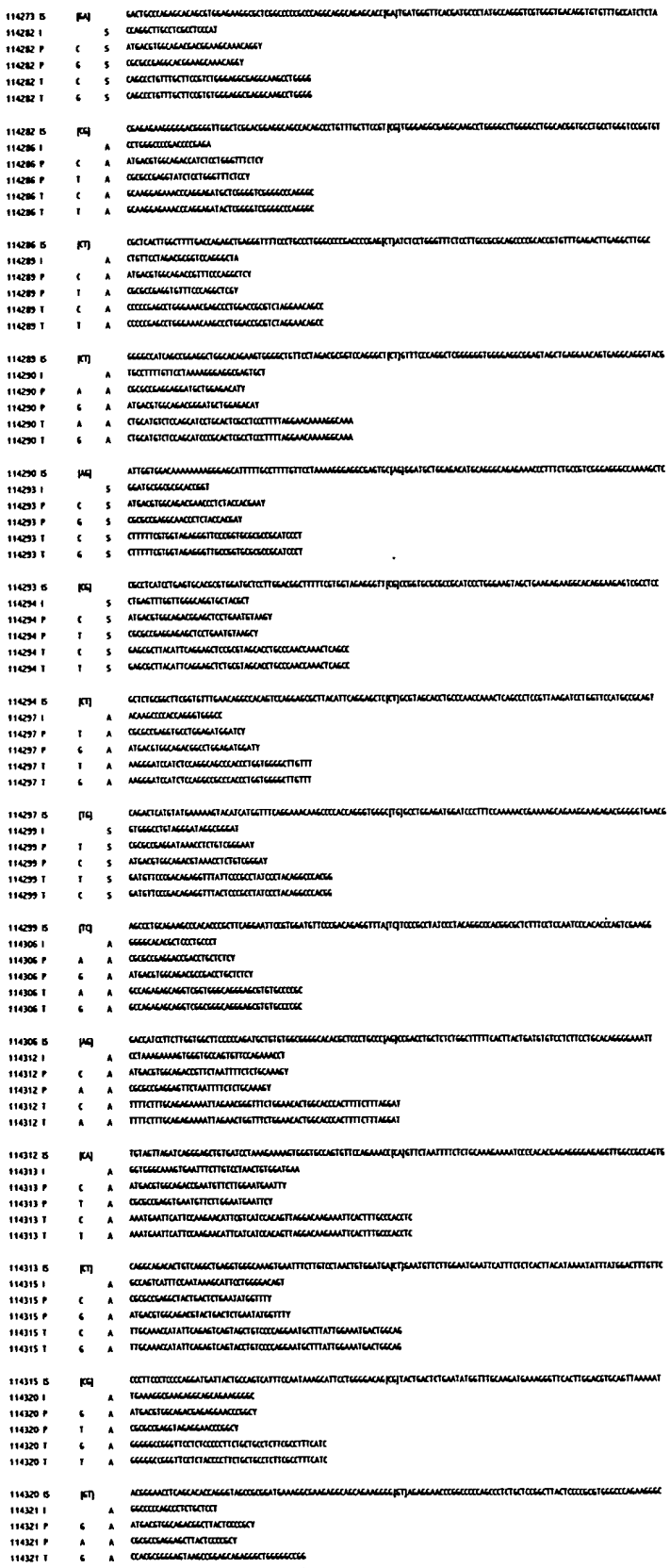
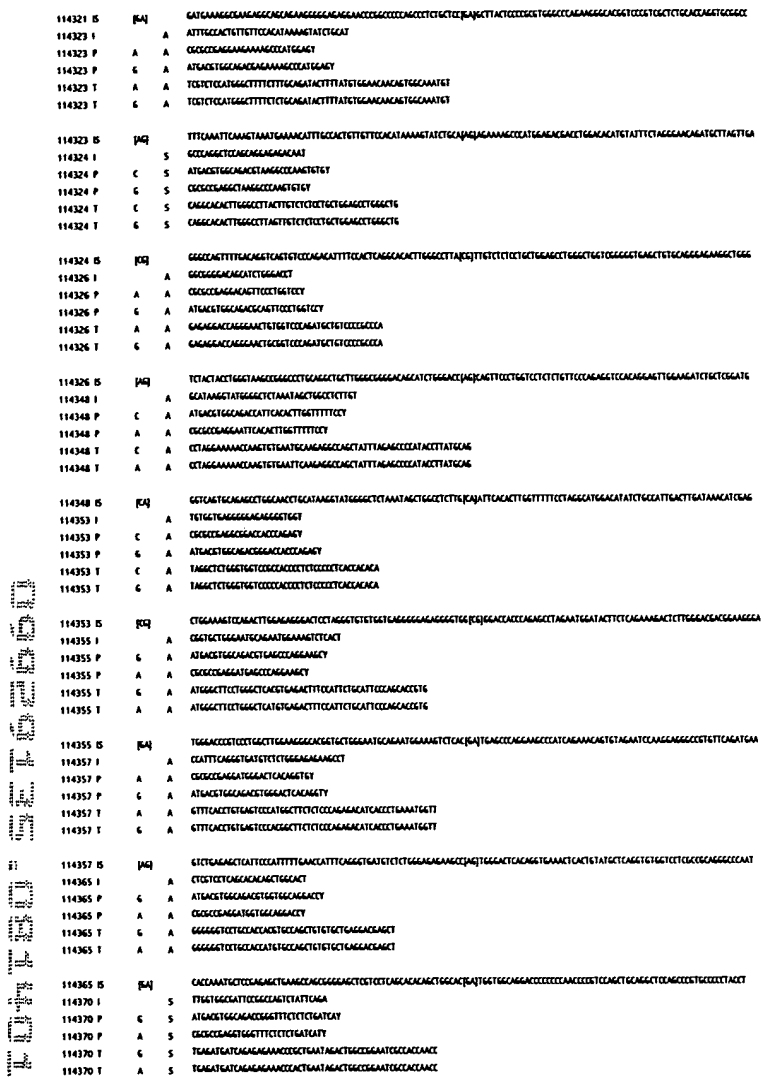
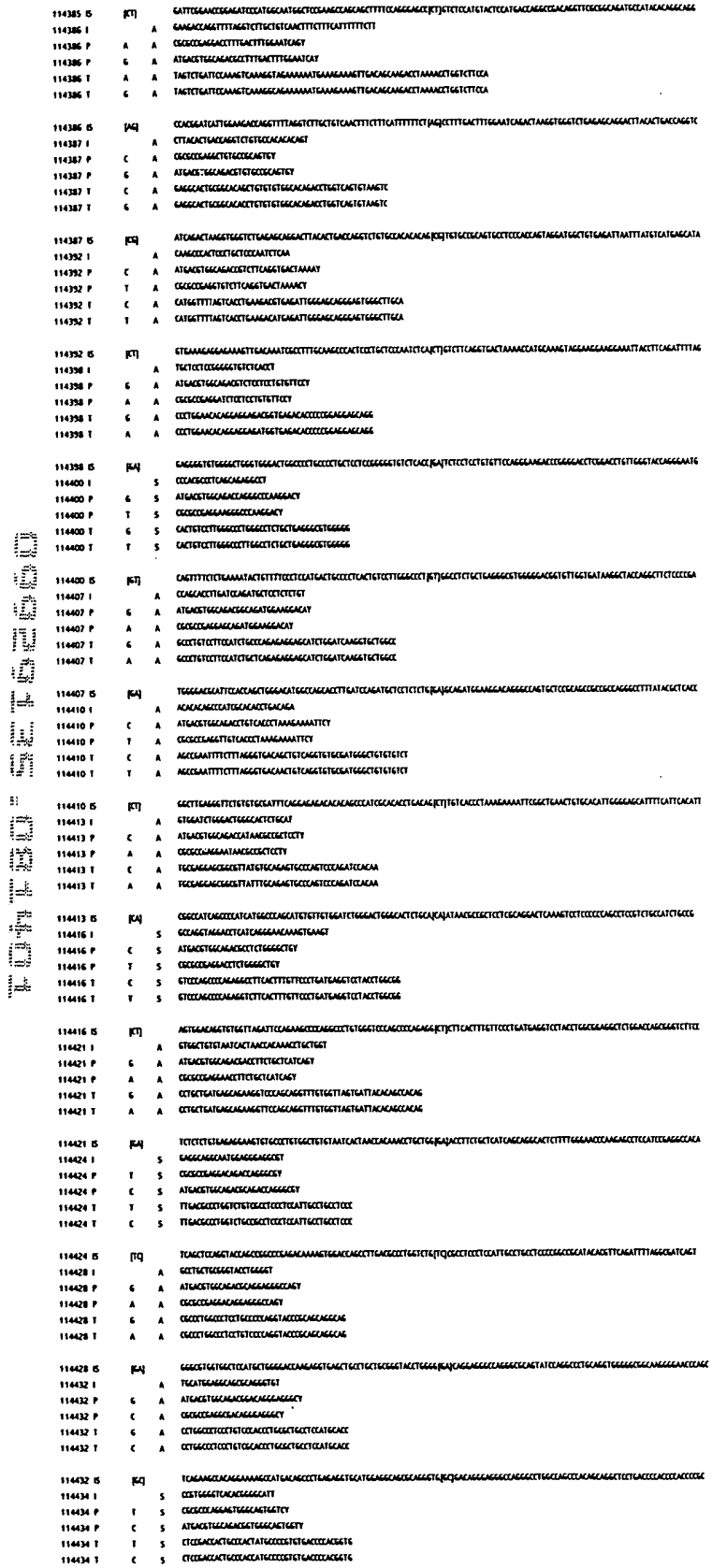


FIGURE 129G





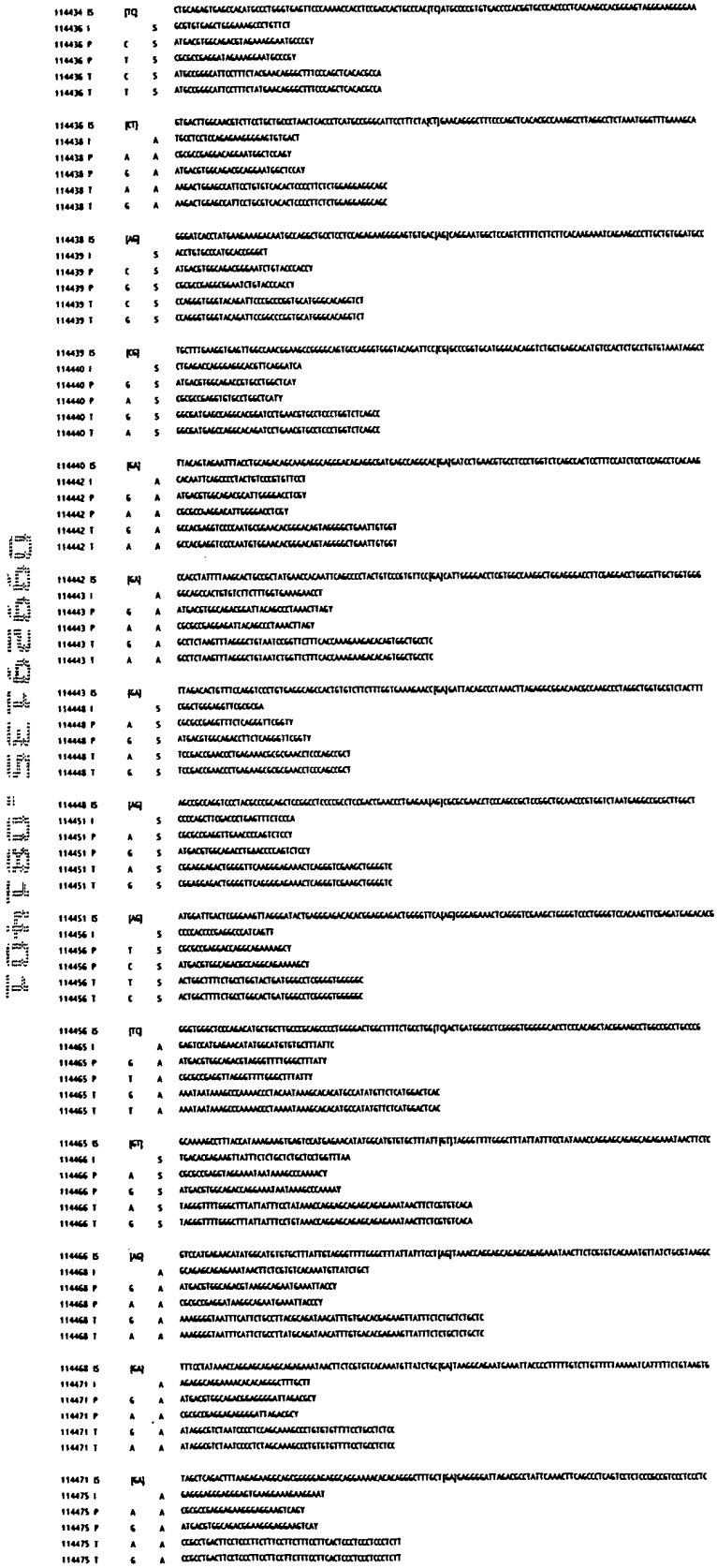


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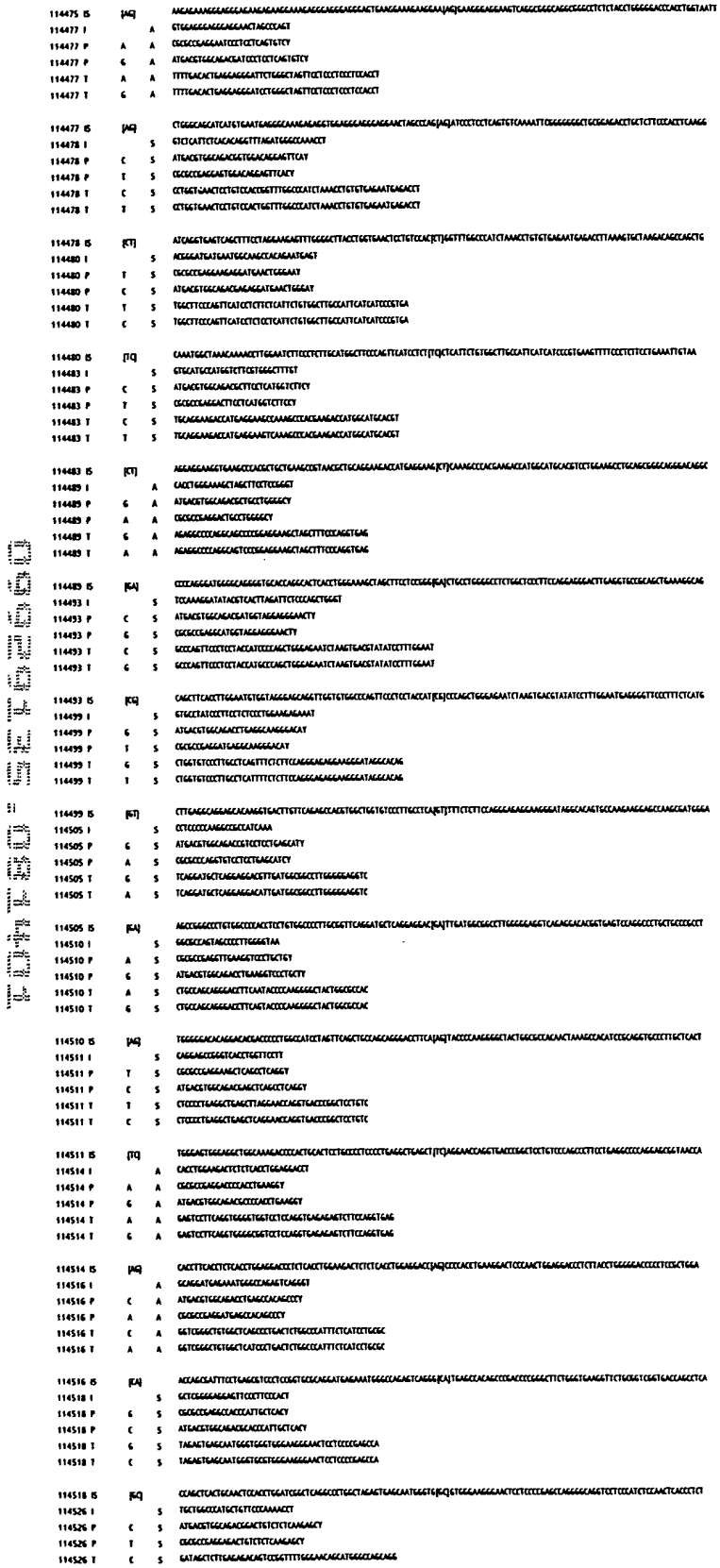


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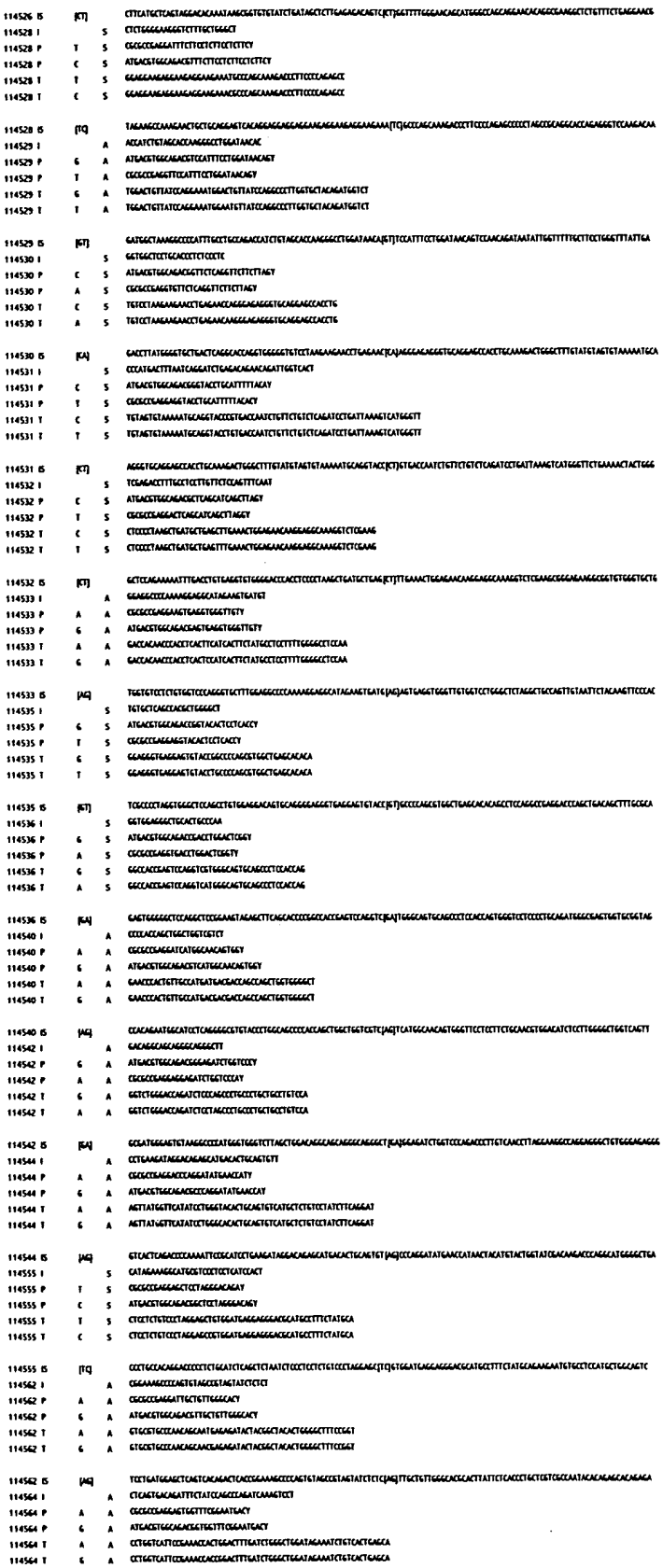


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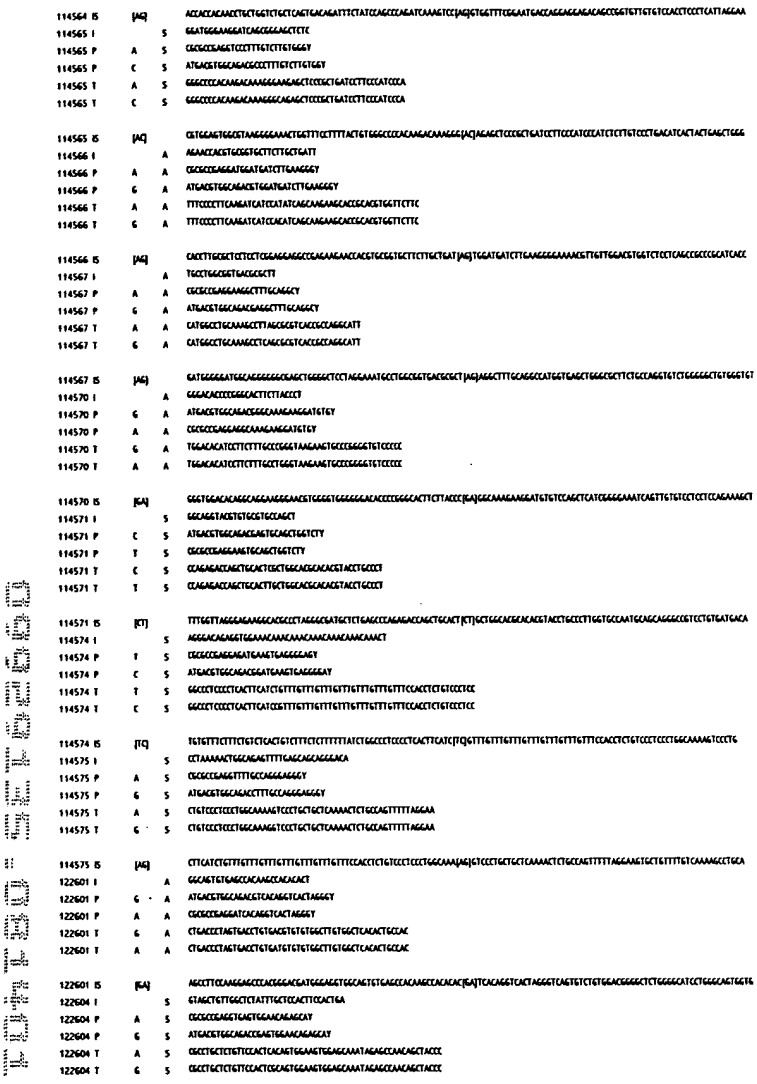


FIGURE 129G

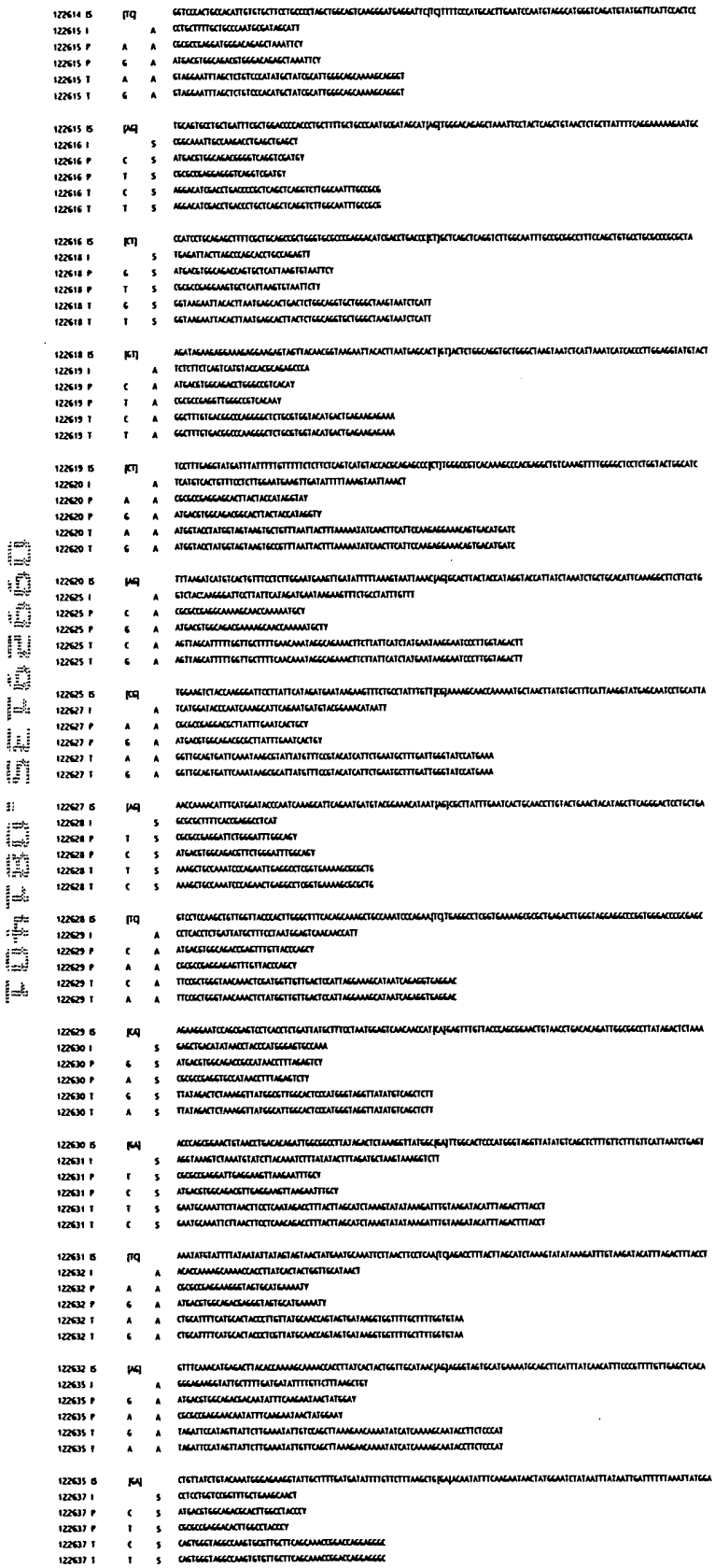
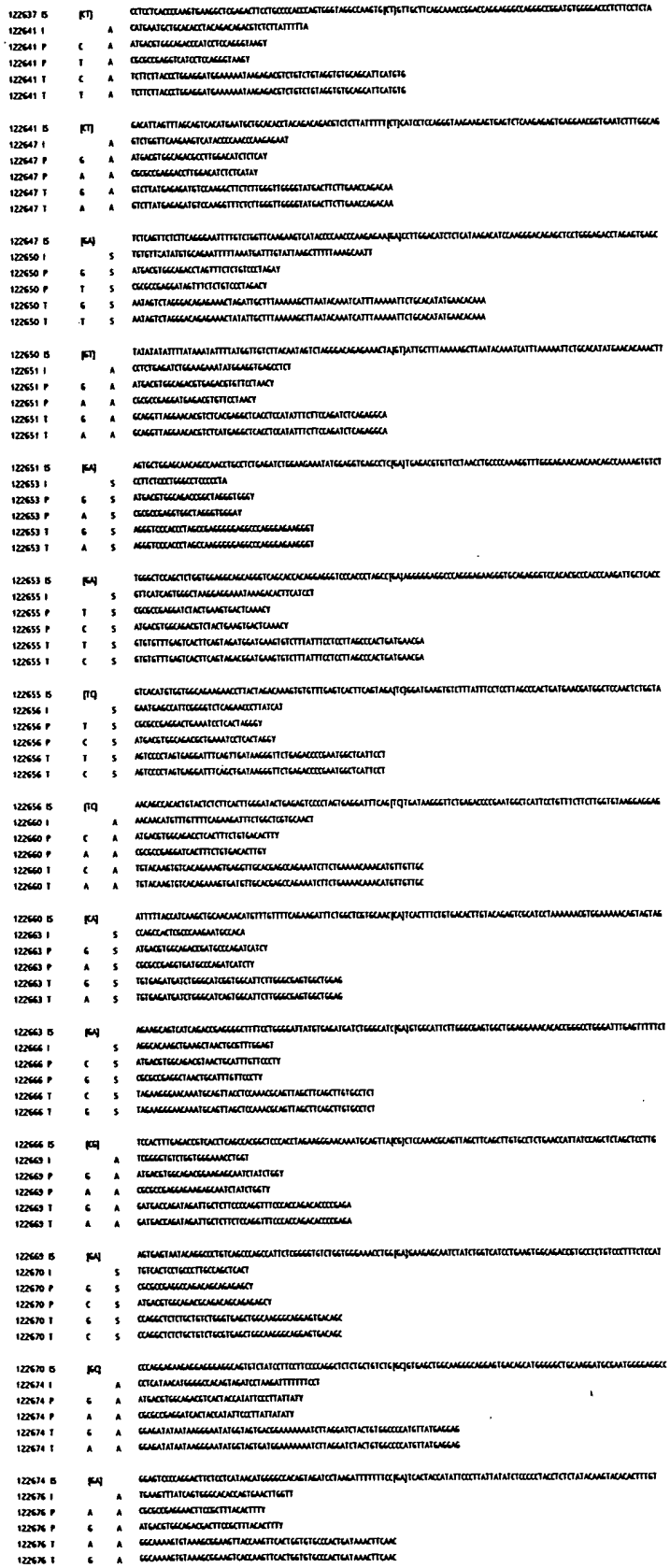


FIGURE 129G



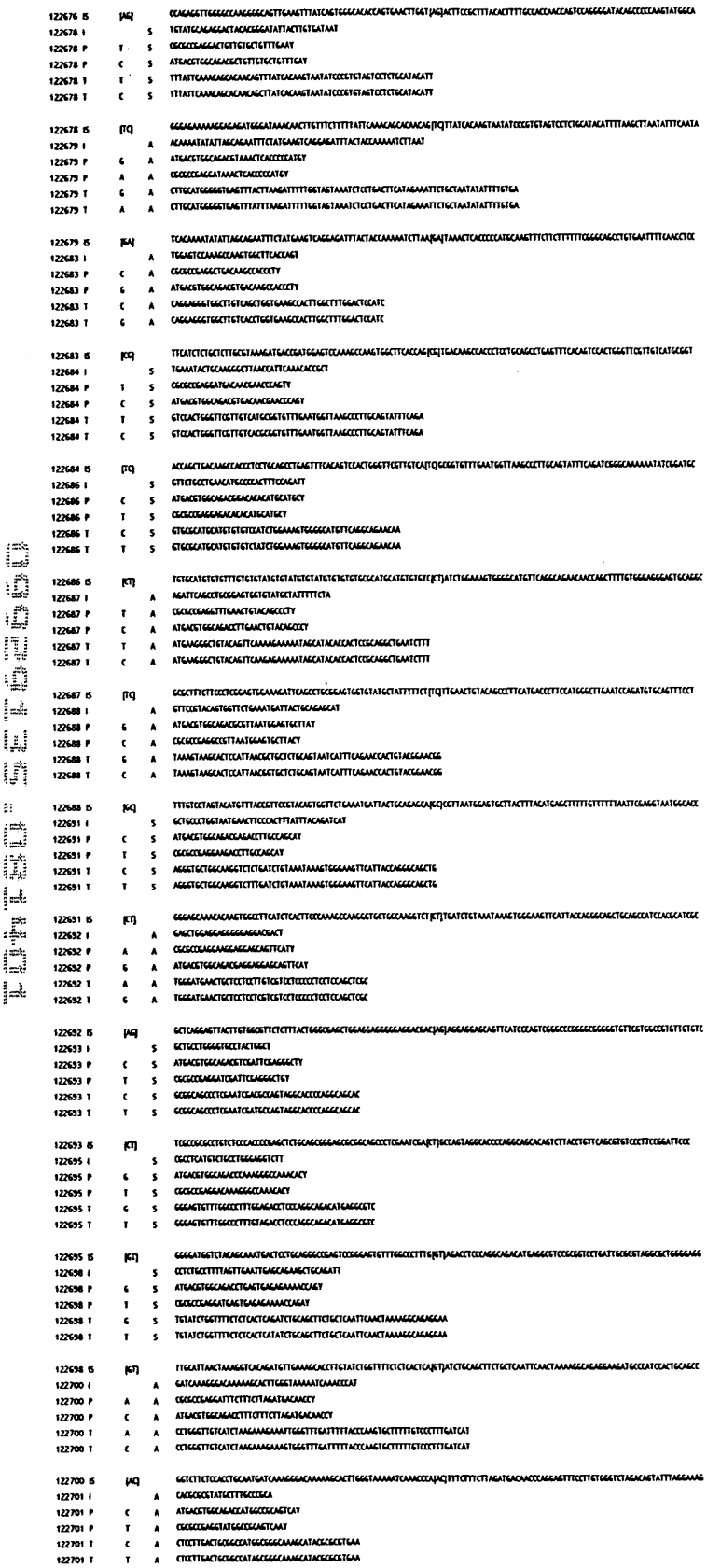
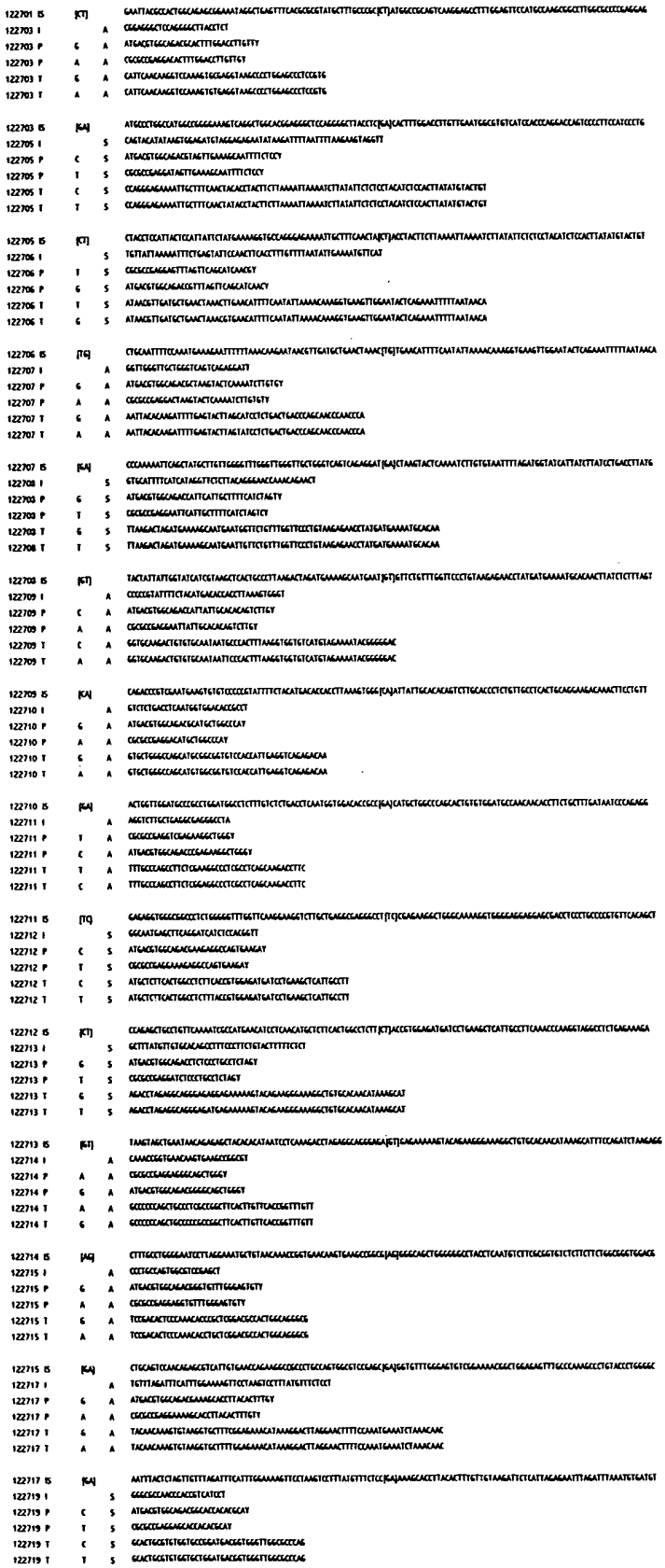
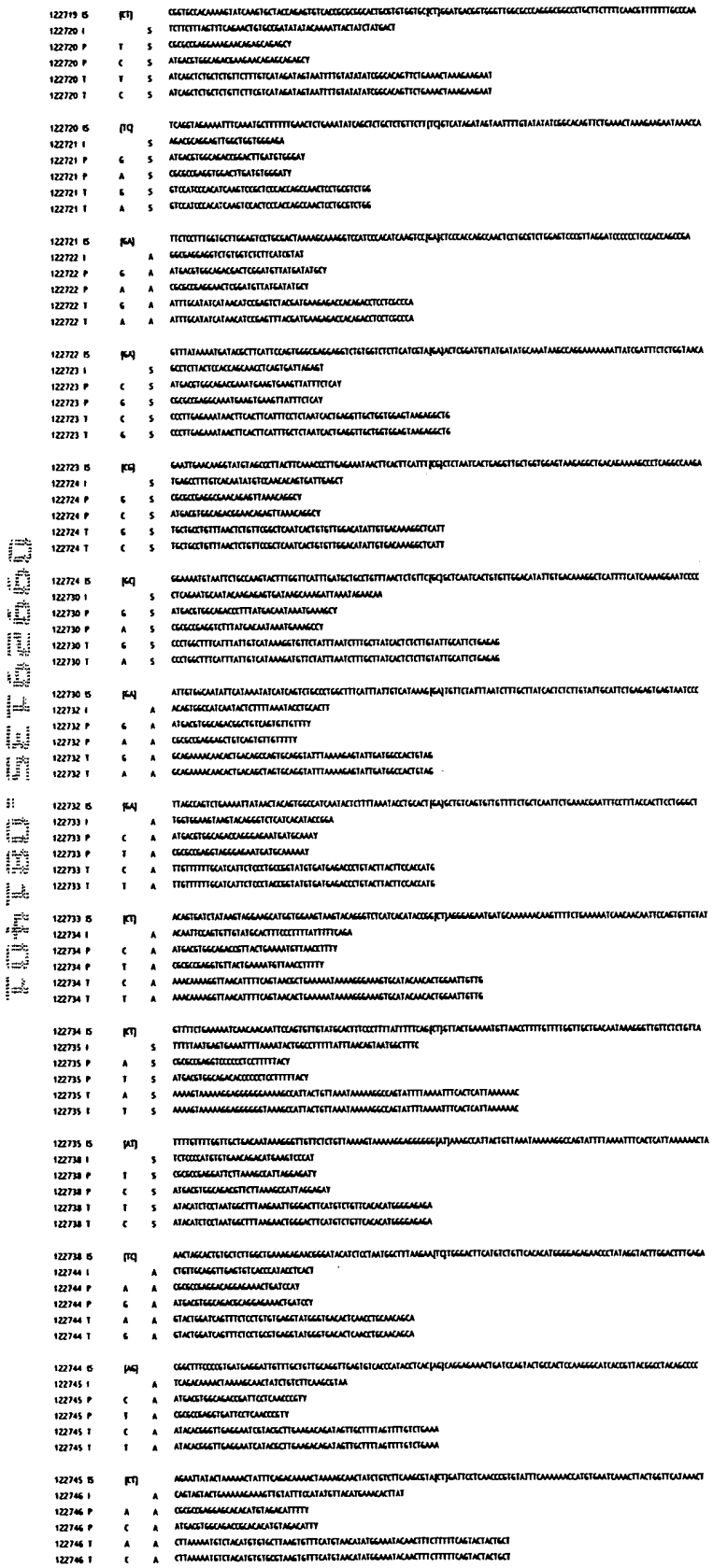


FIGURE 129G





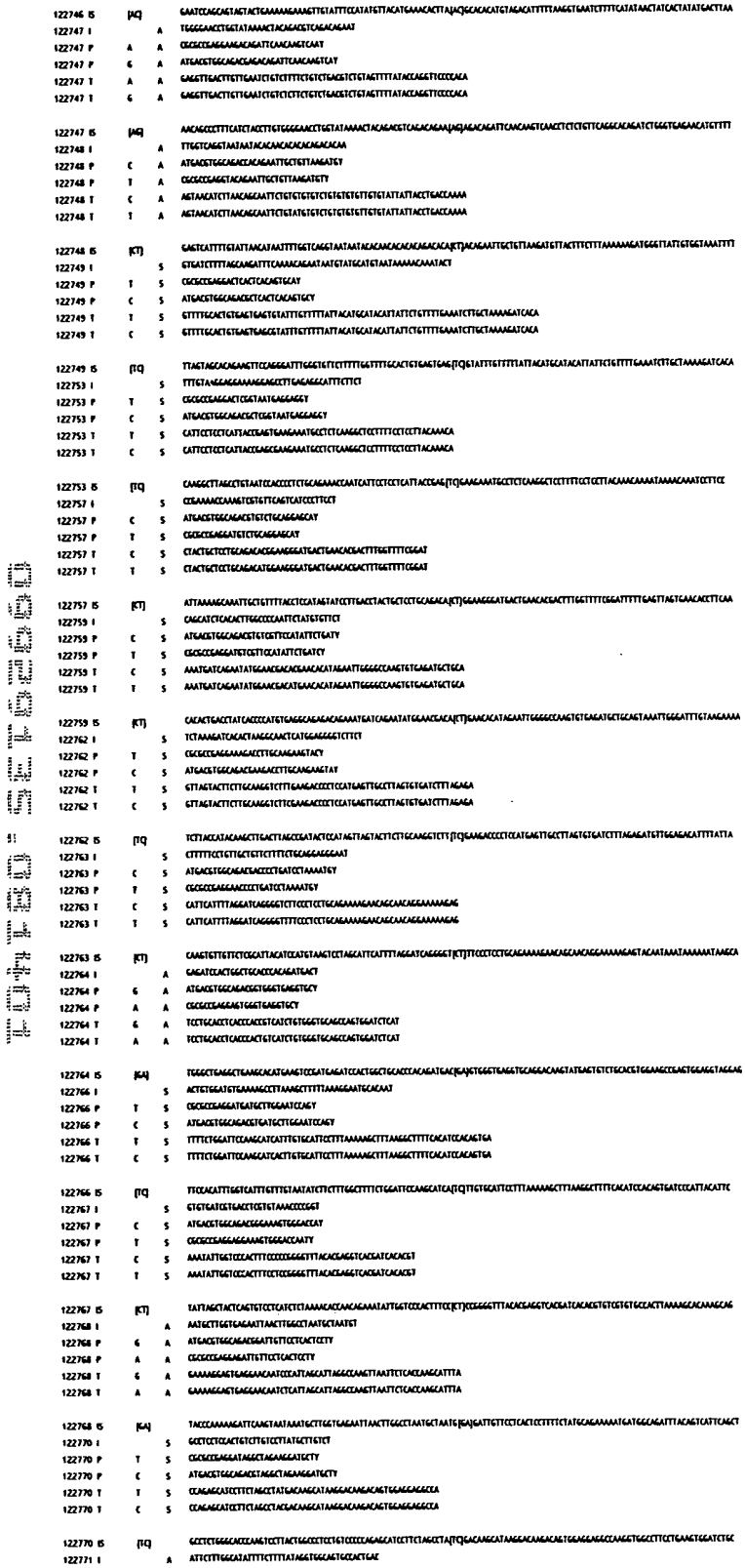


FIGURE 129G

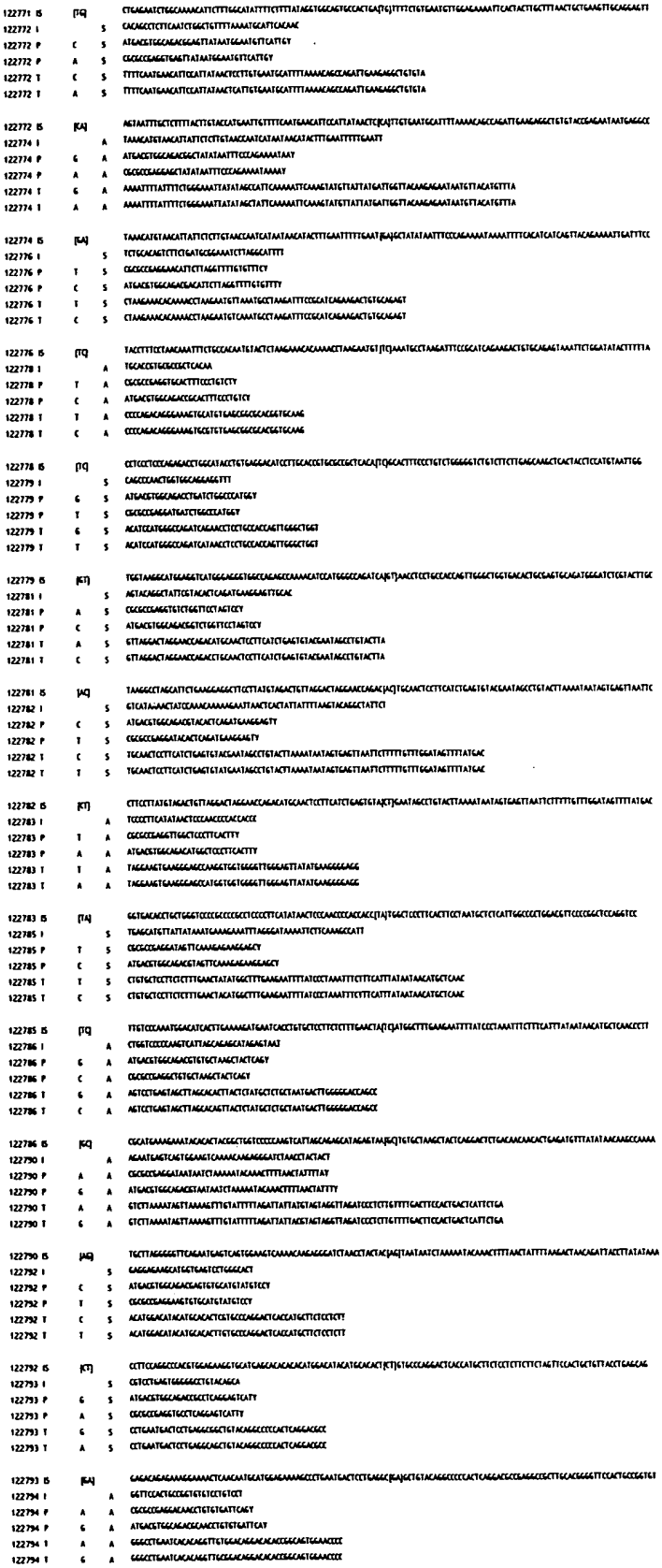


FIGURE 129G

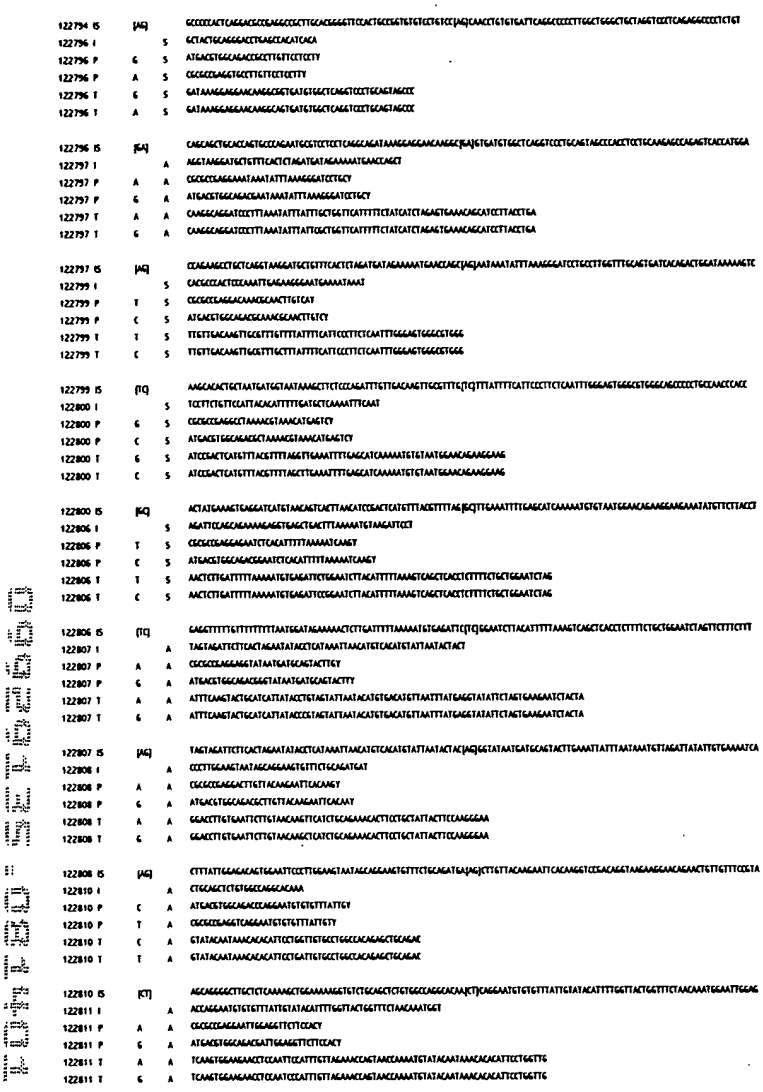


FIGURE 129G

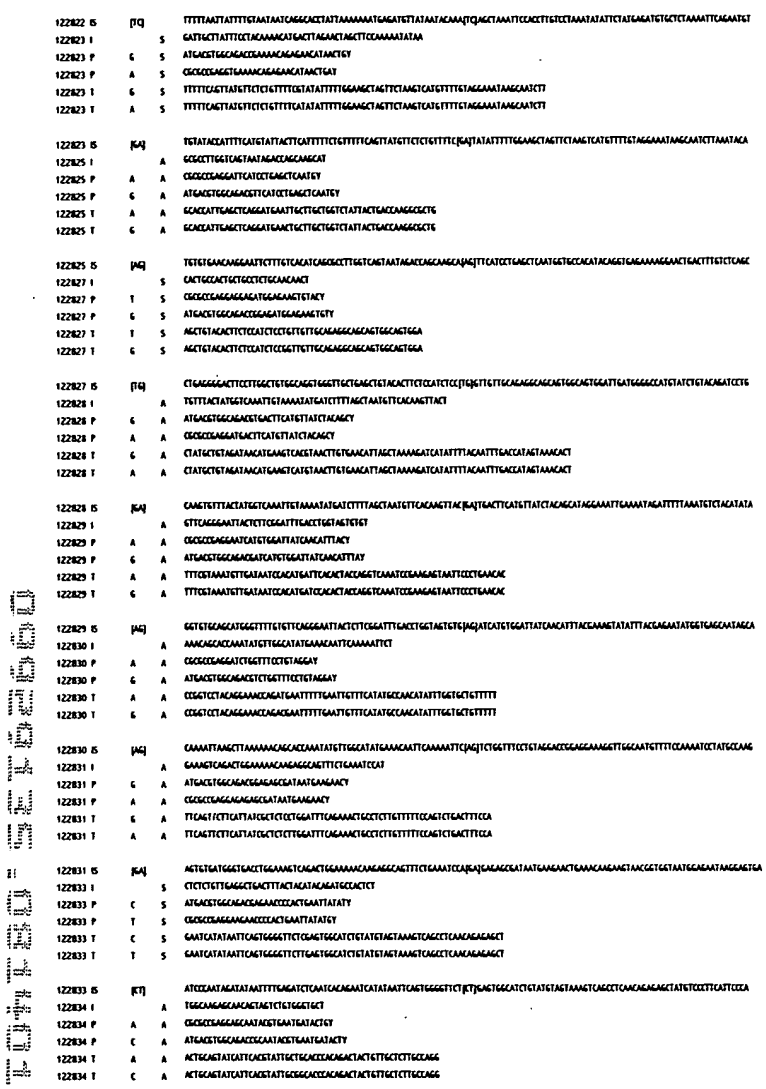
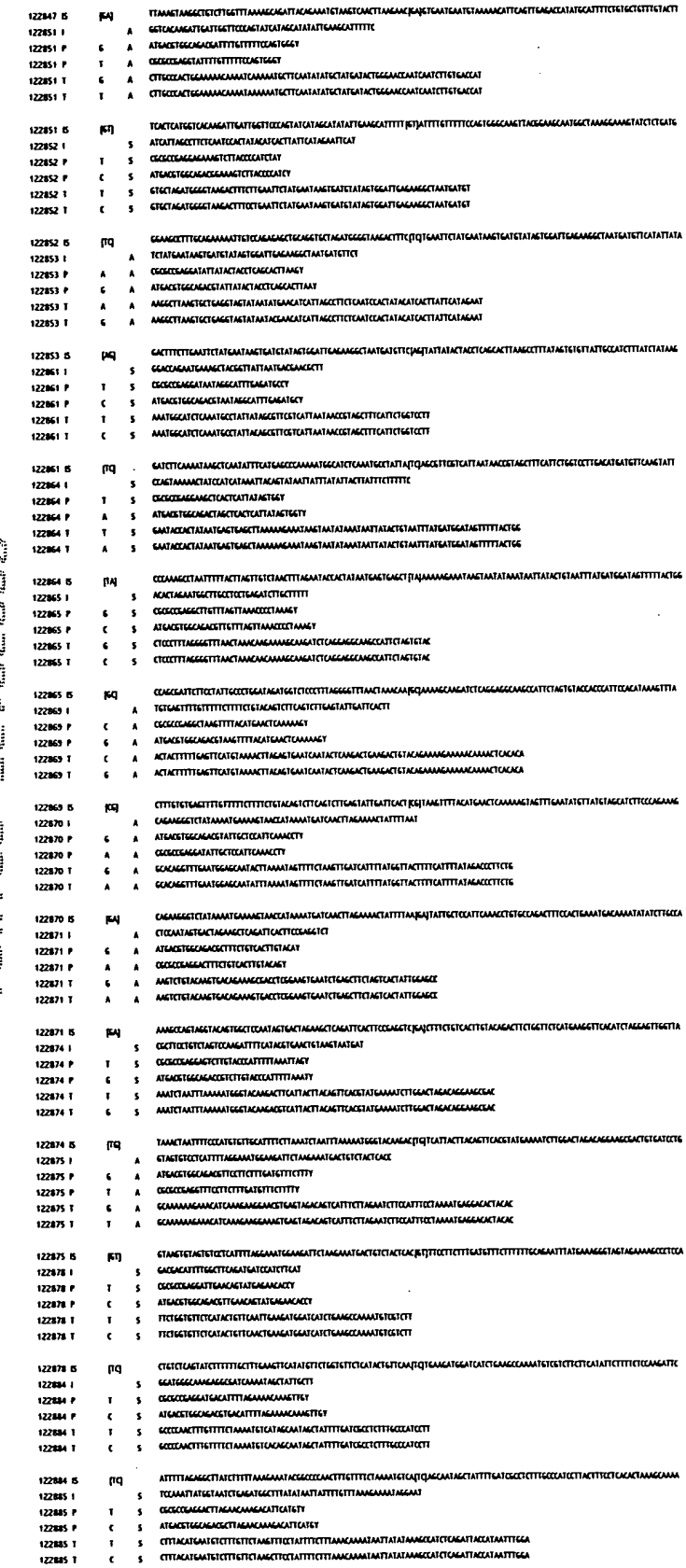
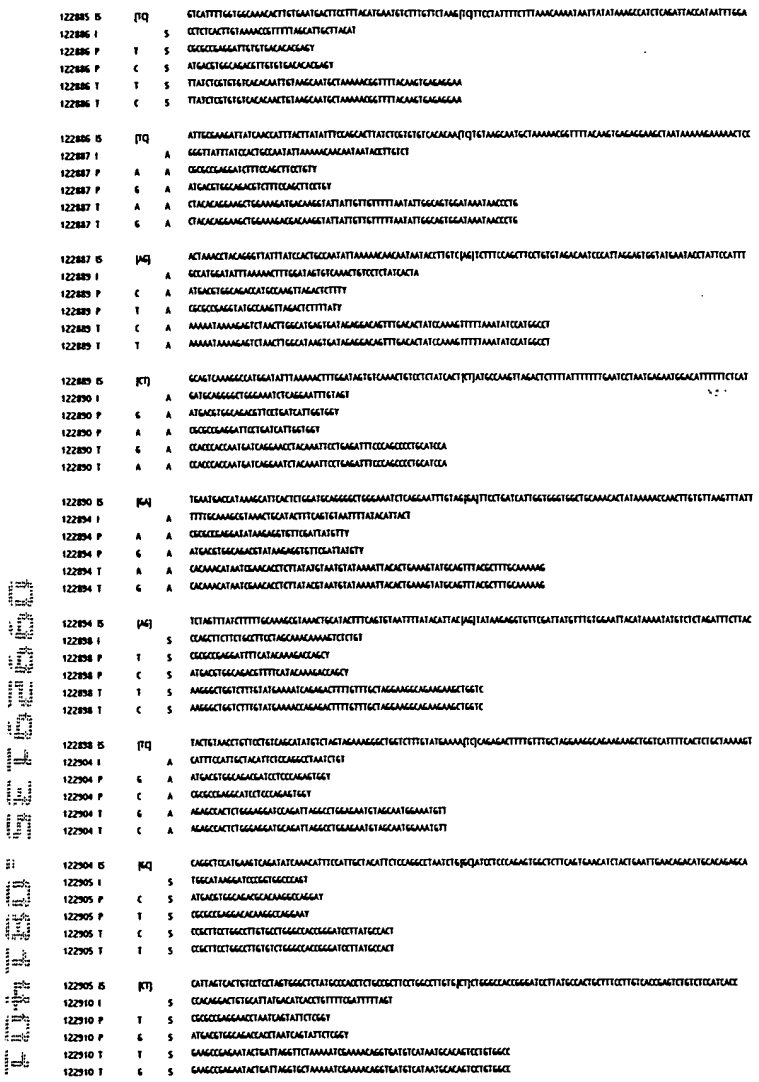


FIGURE 129G





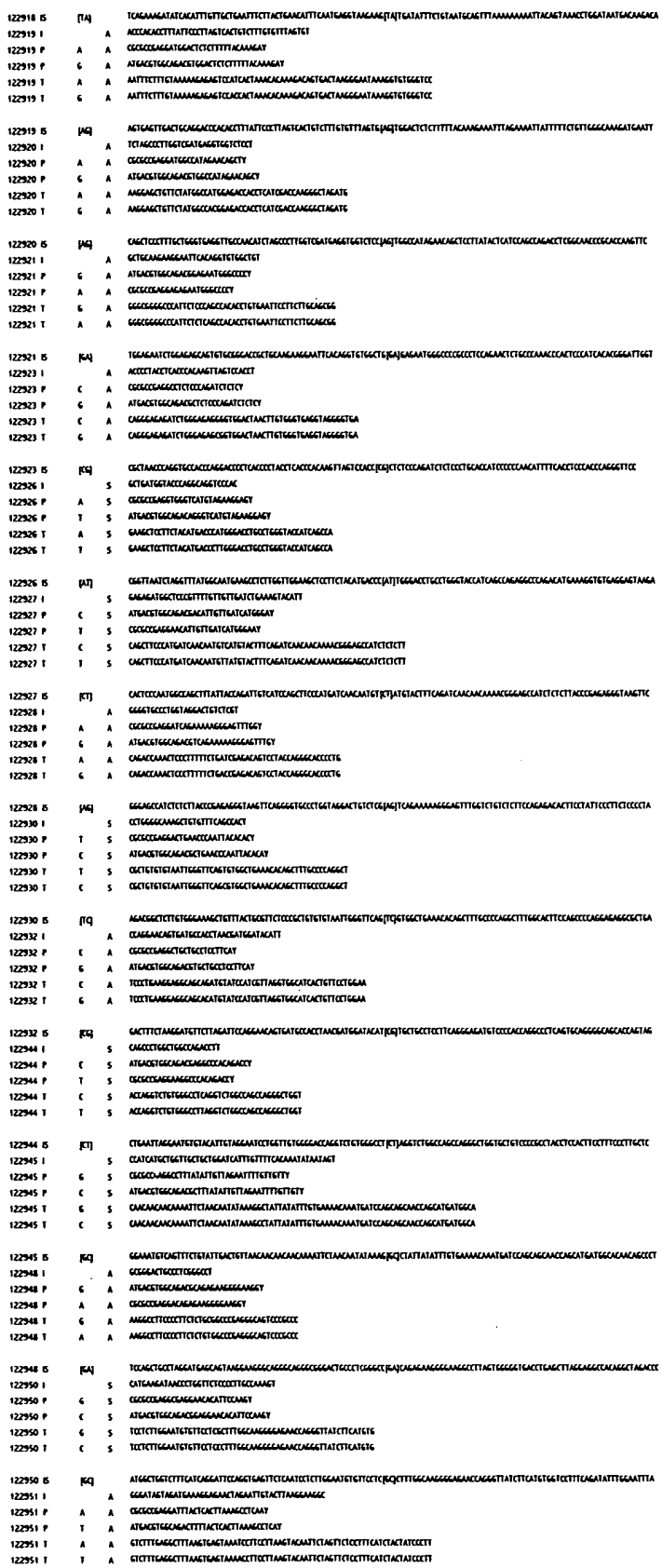


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FIGURE 129G

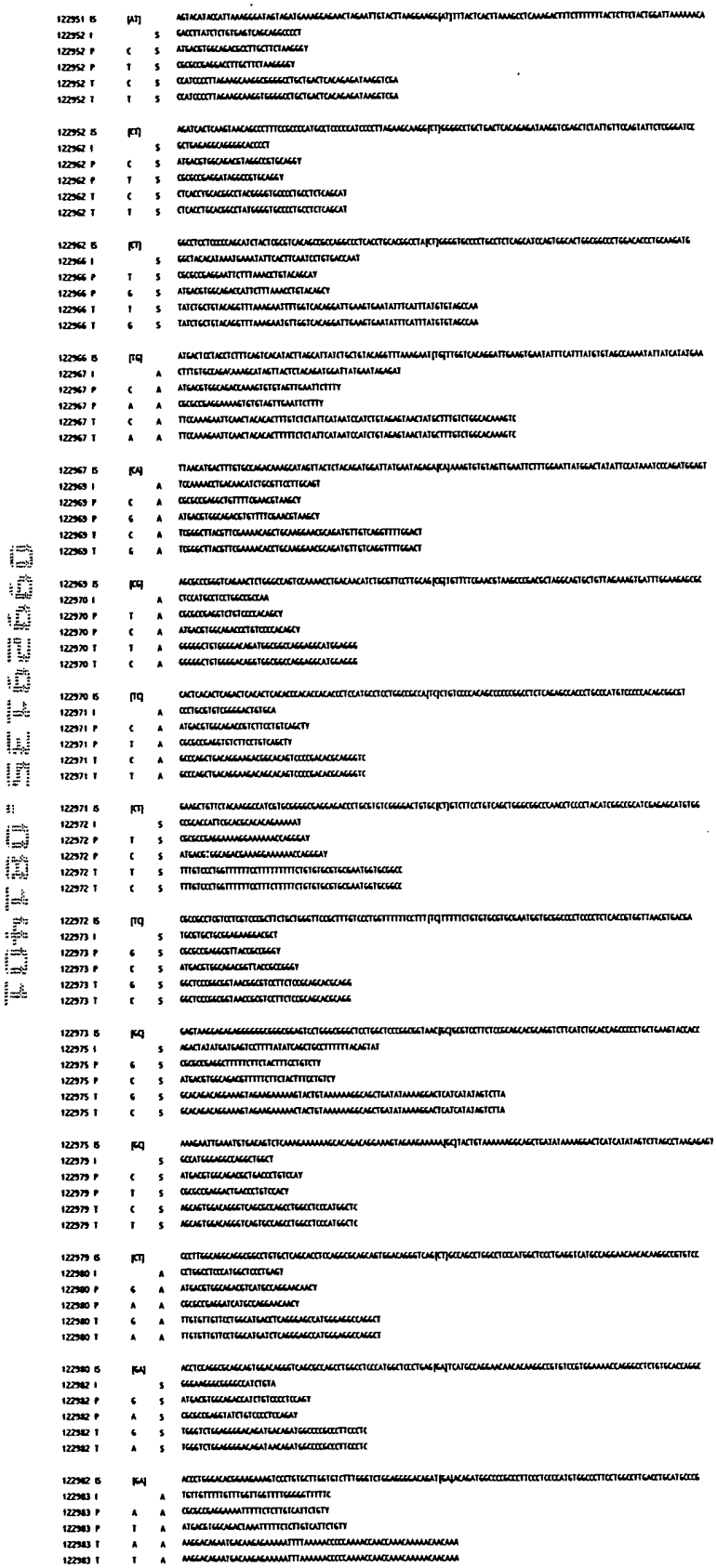


FIGURE 129G

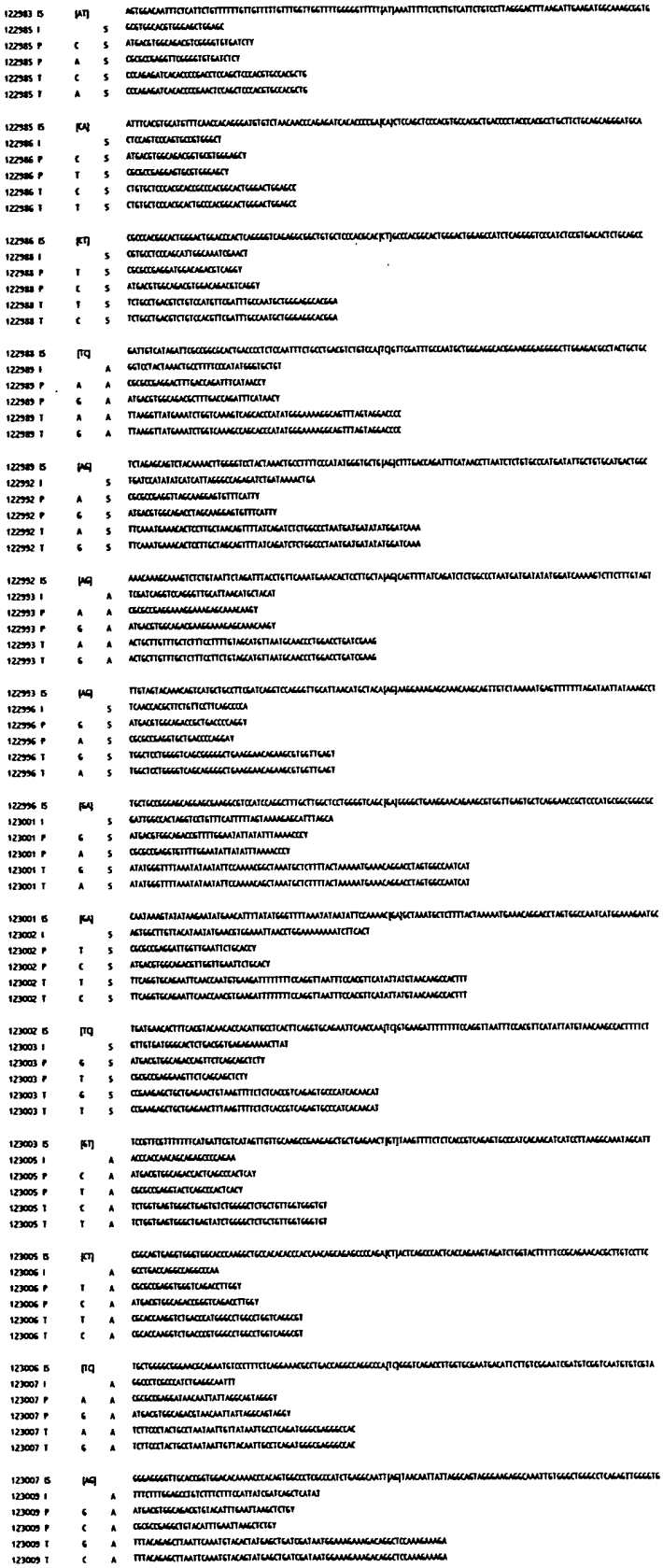
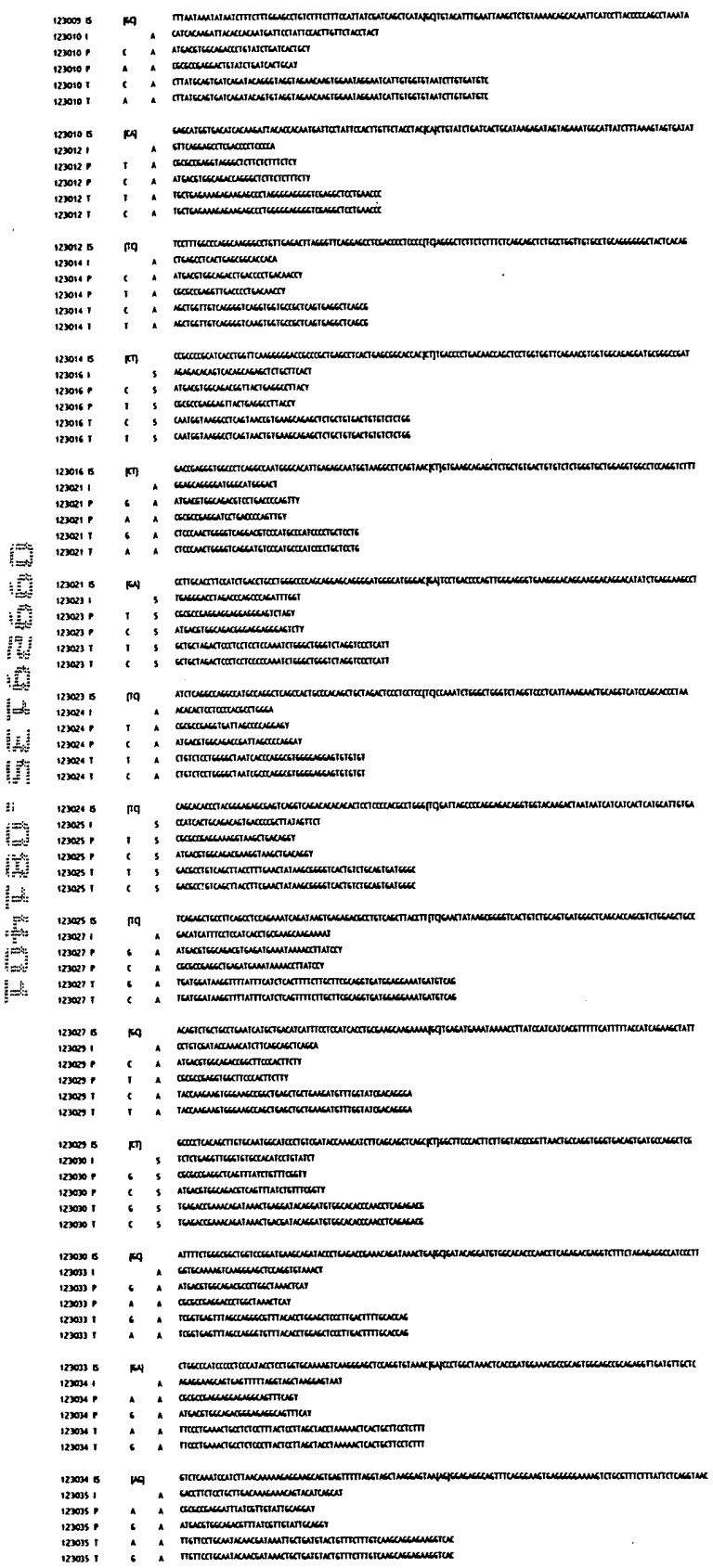


FIGURE 129G



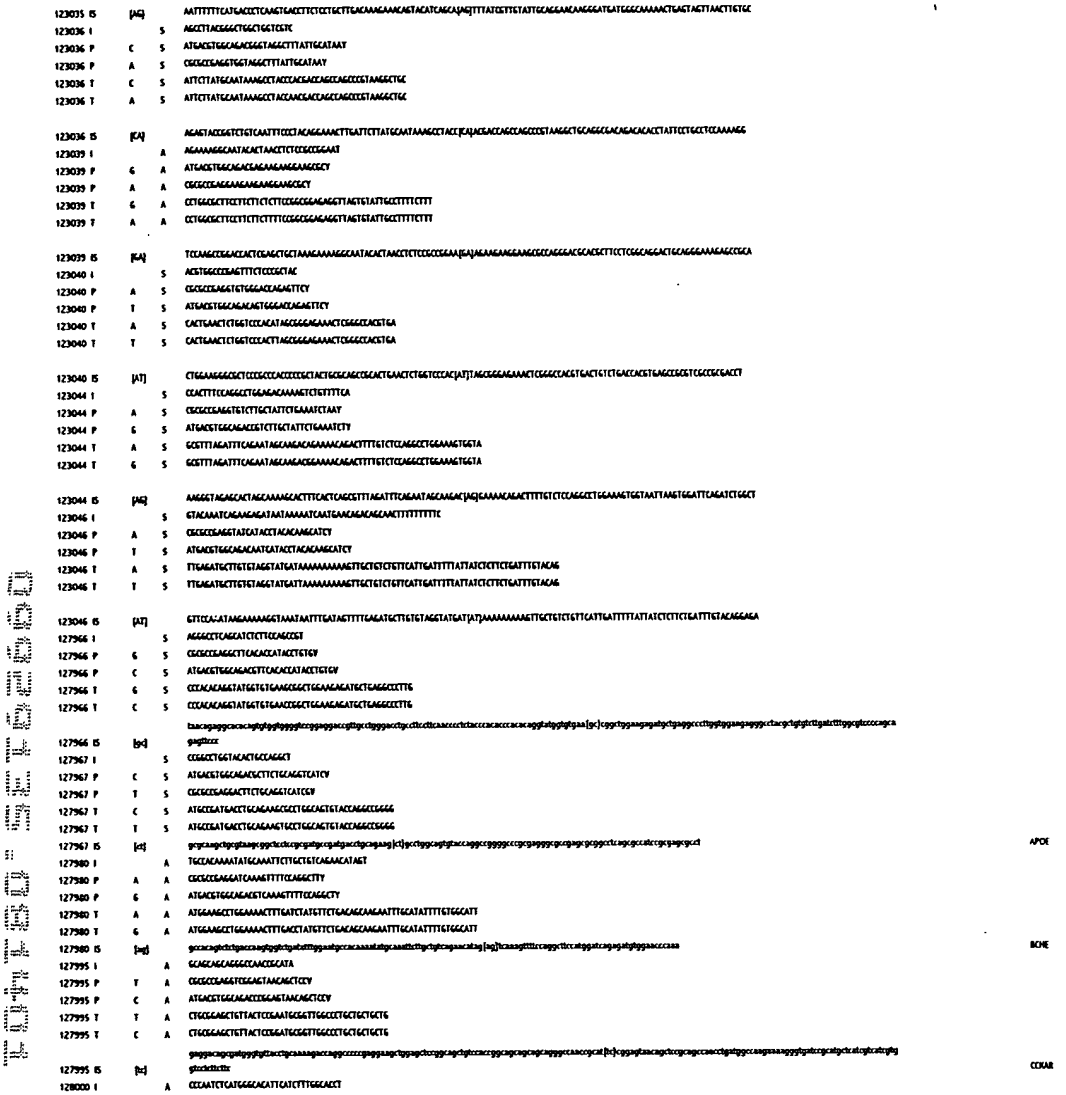
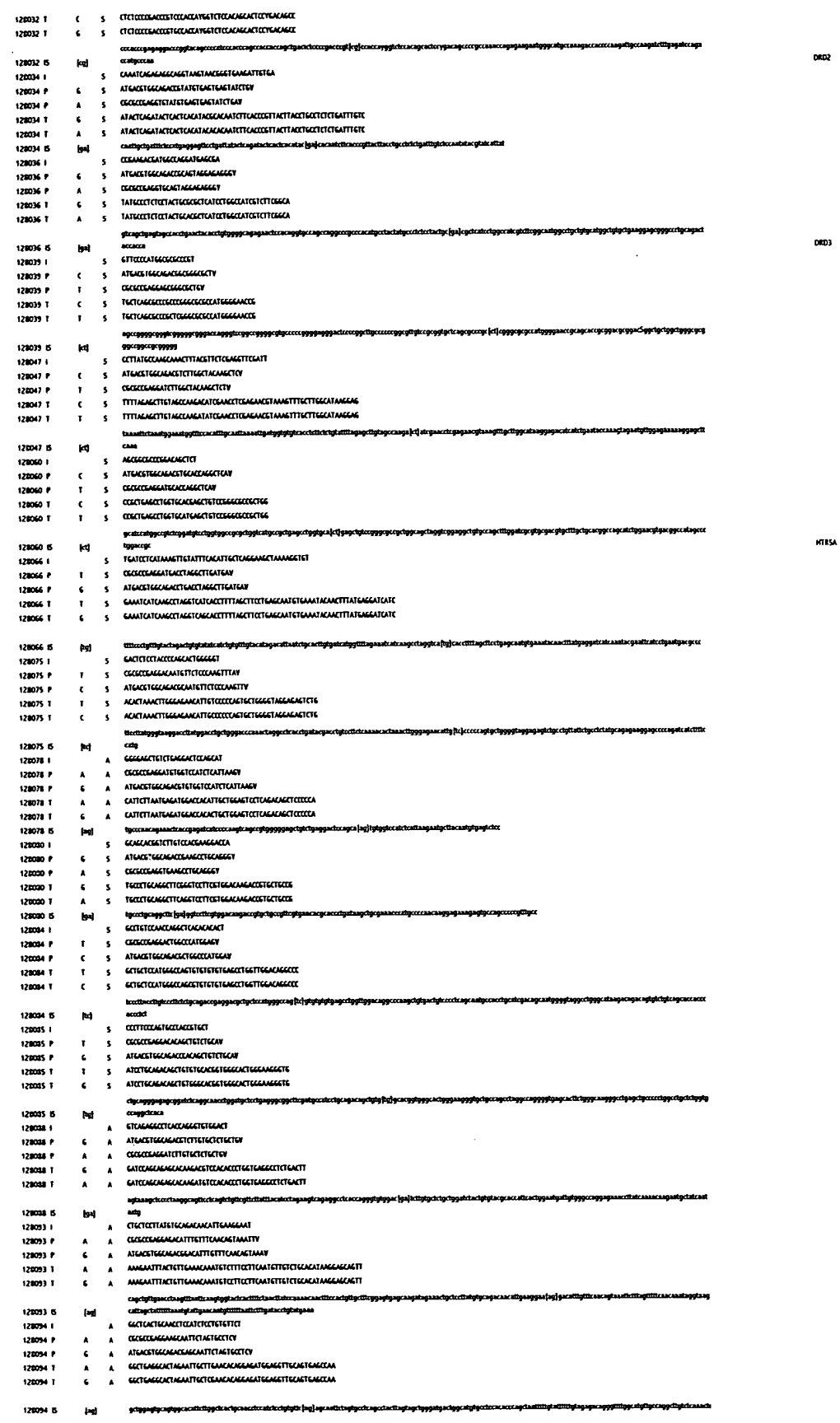


FIGURE 129G



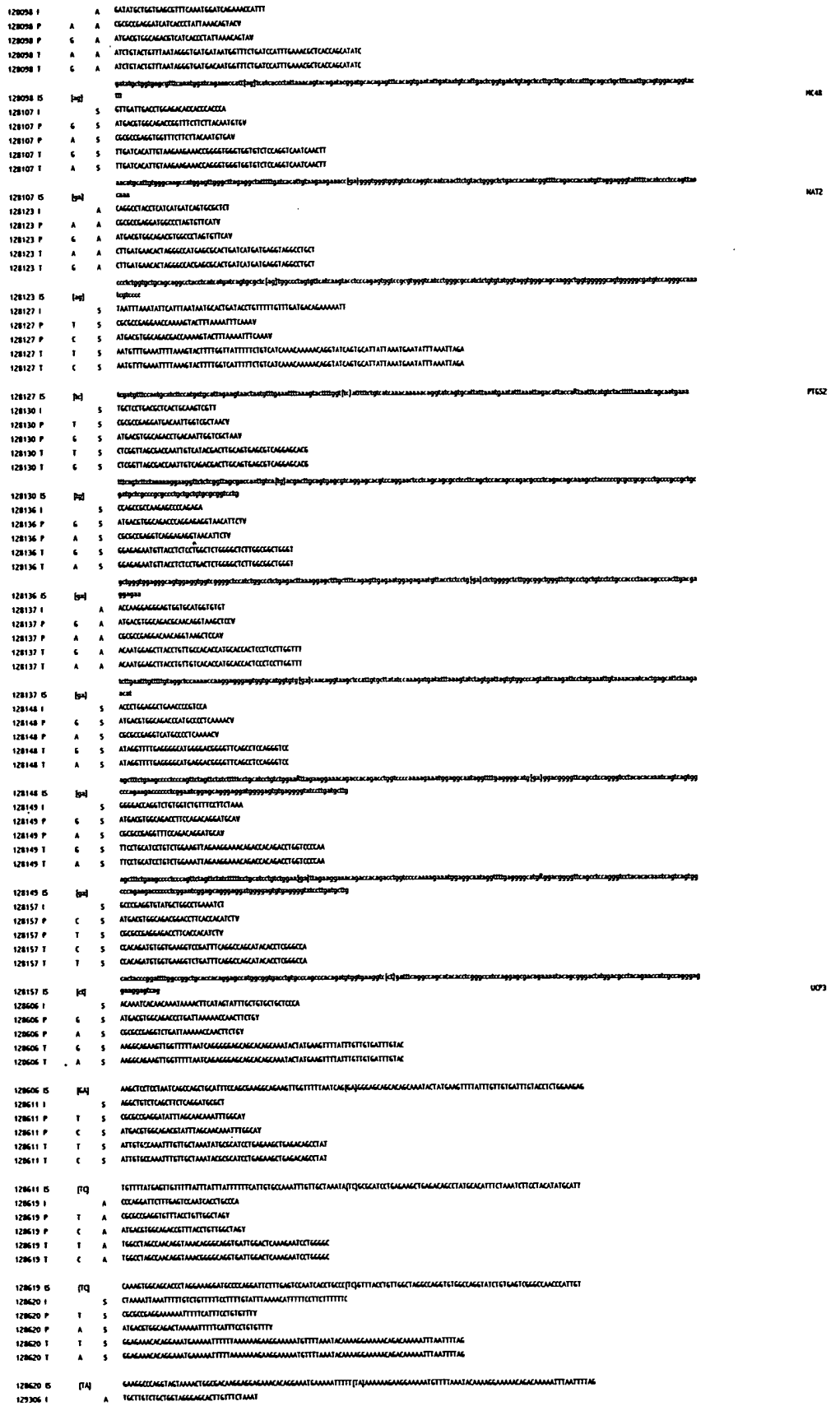
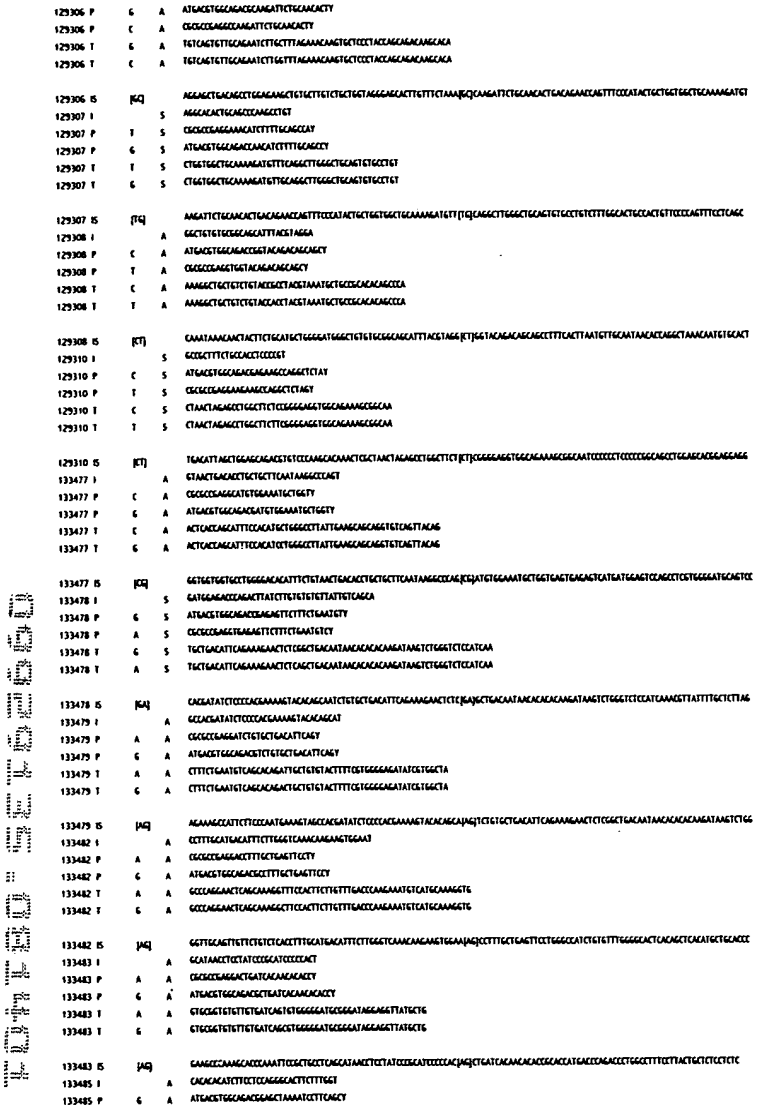


FIGURE 129G



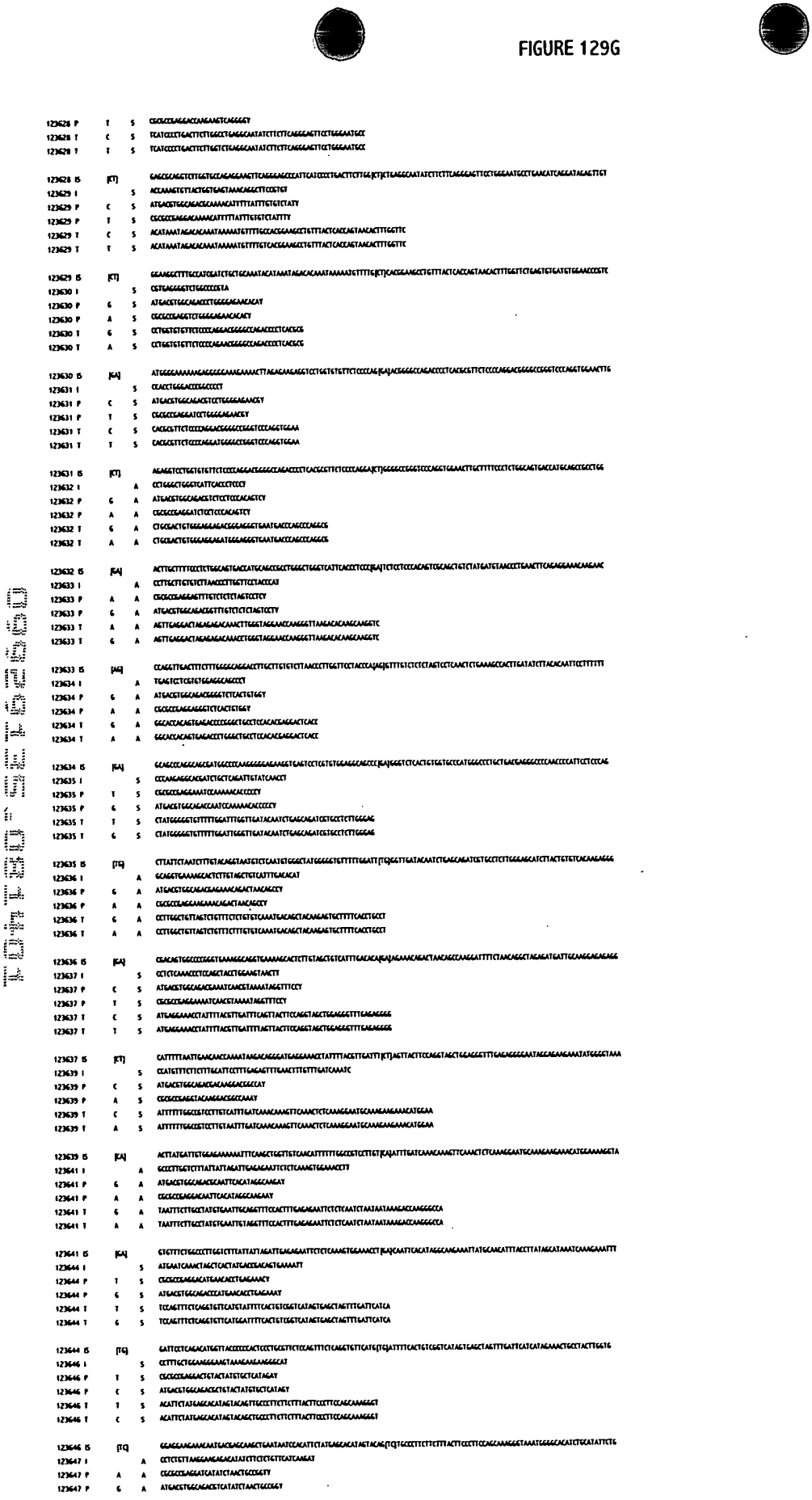


FIGURE 129G

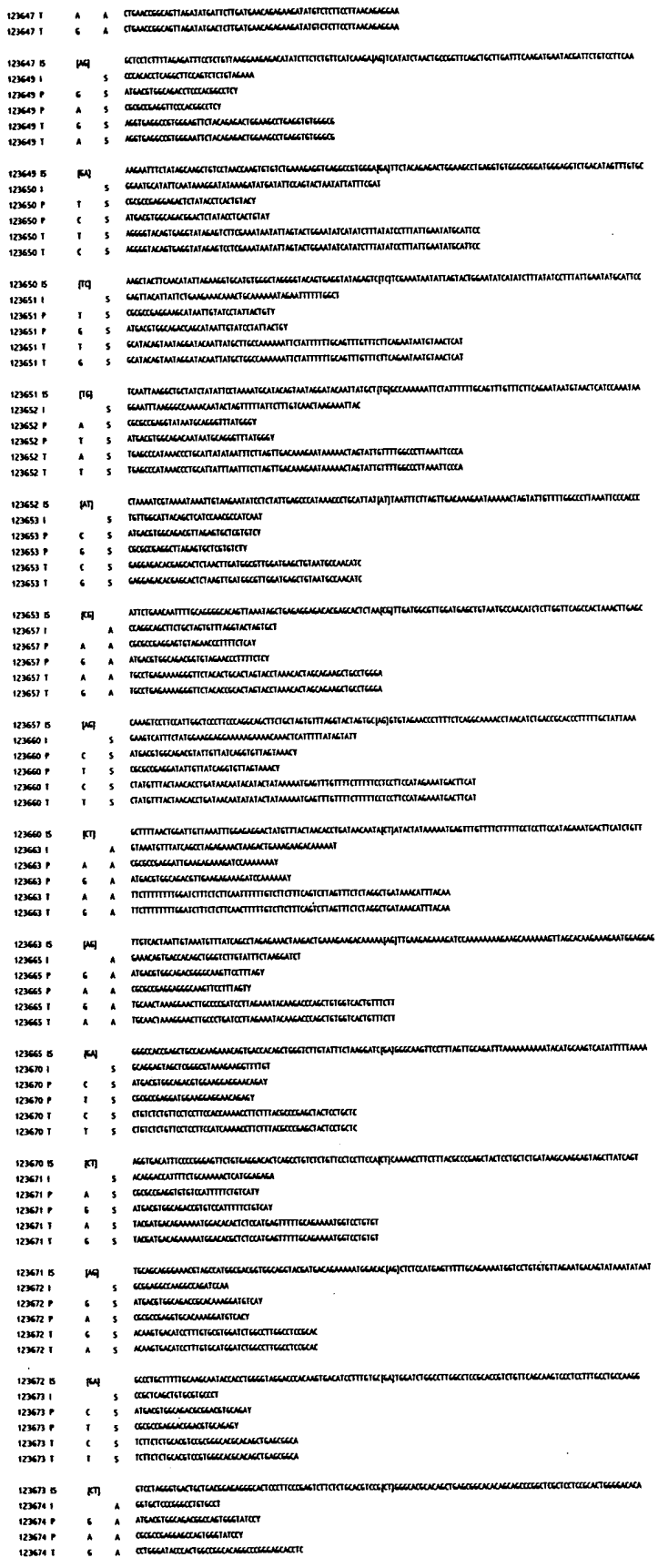


FIGURE 129G

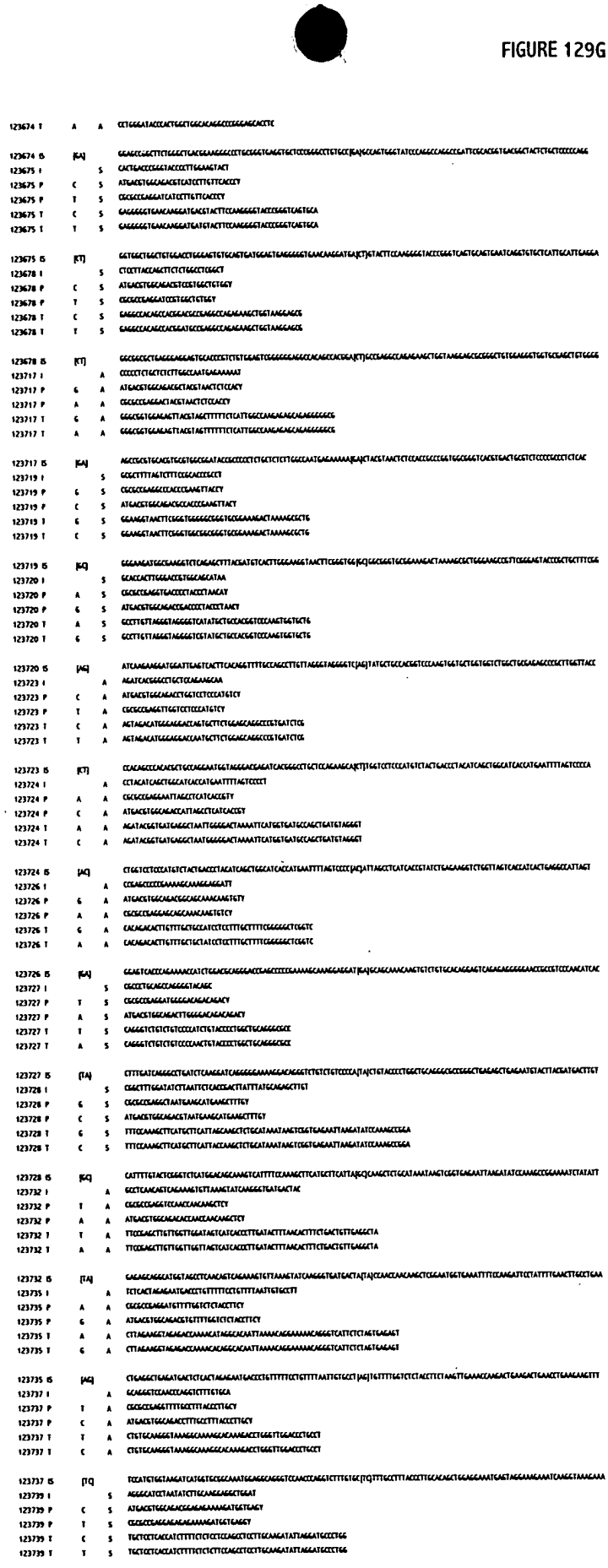


FIGURE 129G

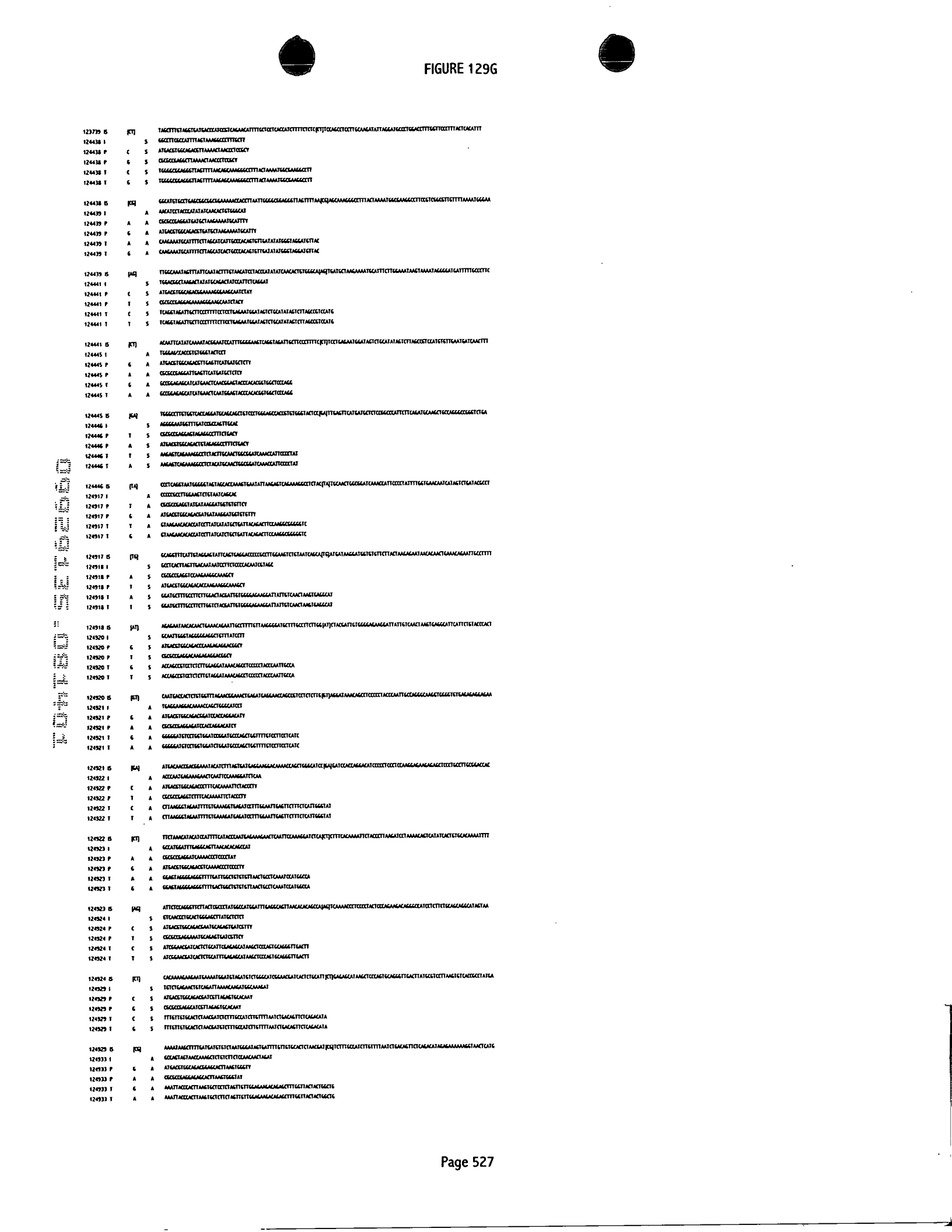


FIGURE 129G

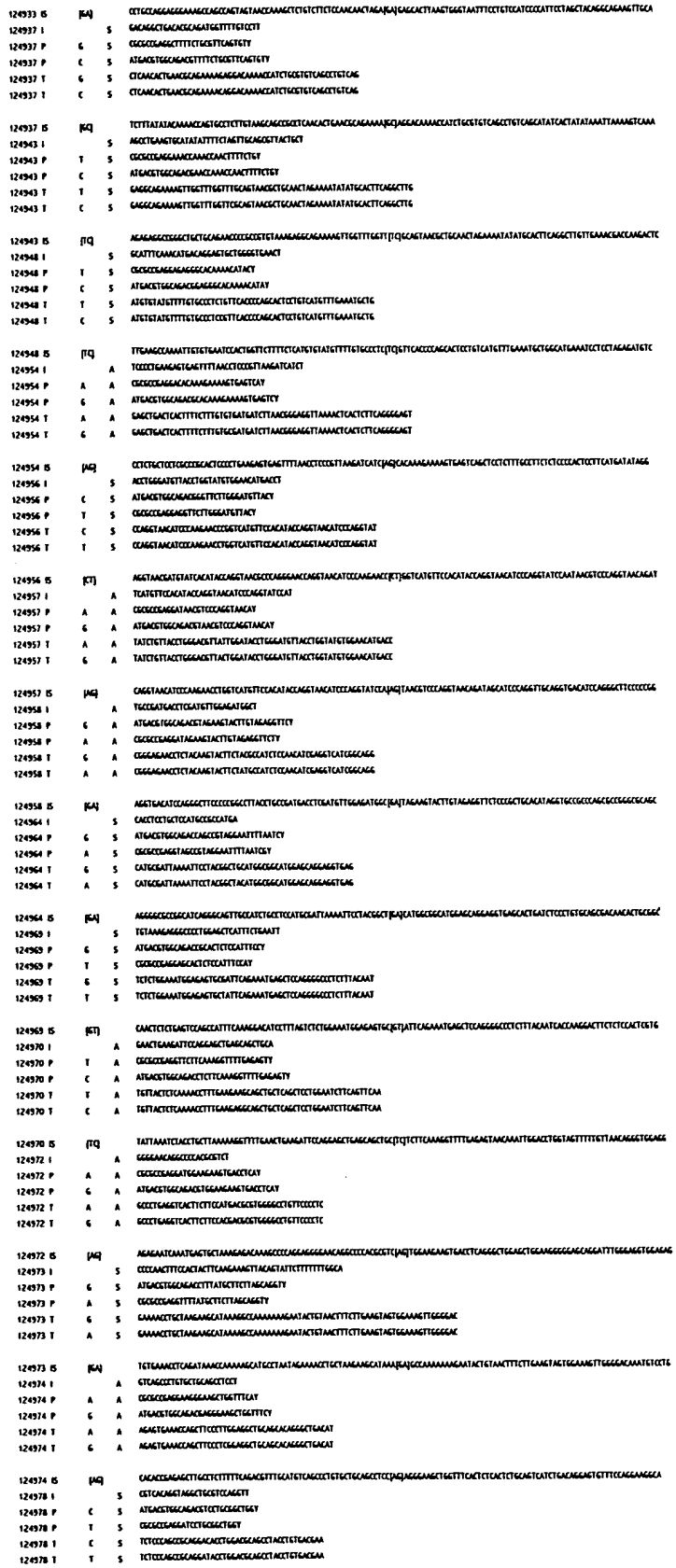


FIGURE 129G

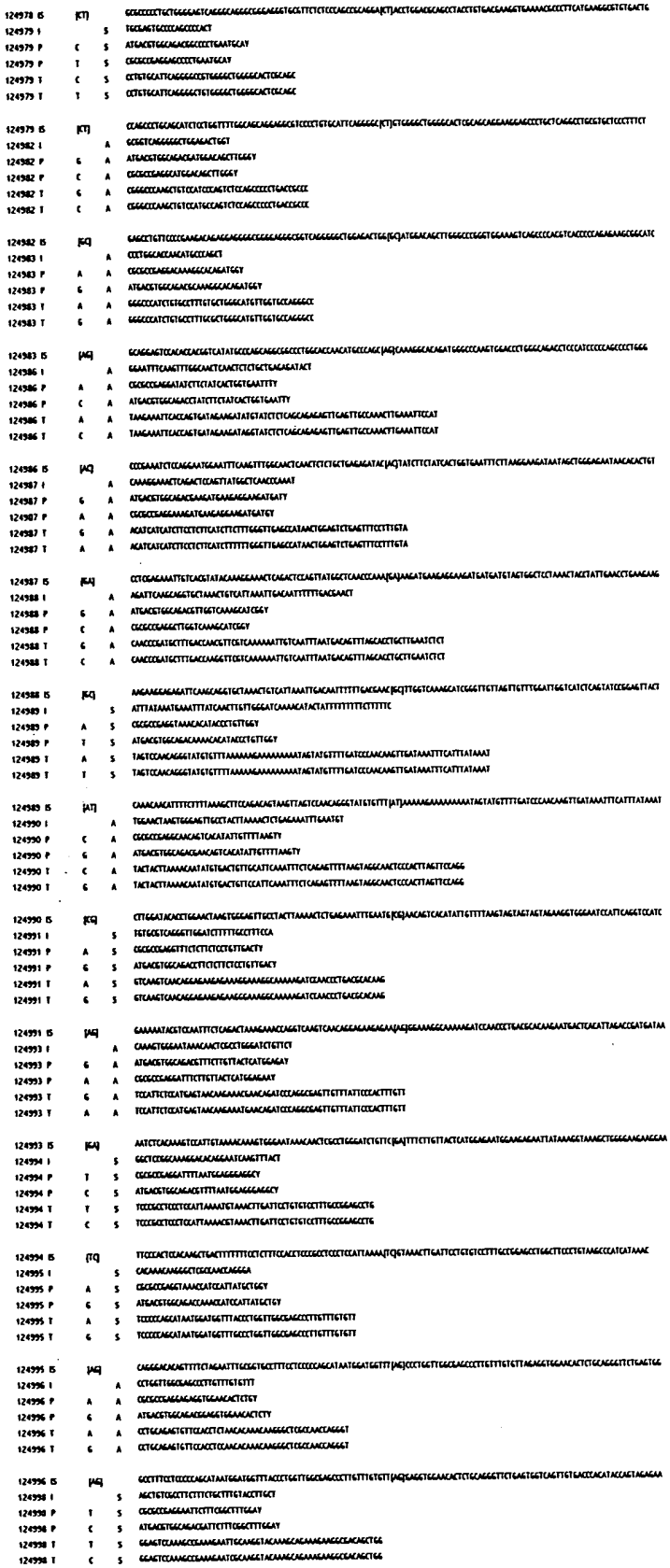


FIGURE 129G

